

Cover Page

Order ID : Q3095

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

Client : AECOM Technical Services, Inc.

Lab Sample Number

Q3095-01
Q3095-02
Q3095-03
Q3095-04
Q3095-05
Q3095-06
Q3095-07
Q3095-08
Q3095-09
Q3095-10
Q3095-11
Q3095-12
Q3095-13
Q3095-14
Q3095-15
Q3095-16
Q3095-17
Q3095-18
Q3095-19
Q3095-20
Q3095-21
Q3095-22
Q3095-23
Q3095-24
Q3095-25
Q3095-26
Q3095-27
Q3095-28
Q3095-29

Client Sample Number

MW305I-20250908
MW179D-20250908
MW201D-20250908
MW179D1-20250908
MW203D2-20250909
MW203D2-20250909MS
MW203D2-20250909MSD
MW203D1-20250909
MW179D2-20250909
MW201D1-20250909
RE122D1-20250909
MW202D-20250909
MW178I1-20250909
RE123D1-20250909
RE123D3-20250909
MW305D-20250909
DUP01-20250909
RE126D2-20250909
RE126D3-20250909
MW178S-20250910
RE126D1-20250910
MW202D1-20250910
RE104D2-20250910
MW178I-20250910
DUP02-20250910
DUP03-20250910
RE117D1-20250910
RE104D3-20250910
RE122D2-20250910

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: 9/23/2025

Cover Page

Order ID : Q3095

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

Client : AECOM Technical Services, Inc.

Lab Sample Number

Q3095-30
Q3095-31
Q3095-32
Q3095-33
Q3095-34

Client Sample Number

RE104D1-20250910
TT180D-20250911
RE122D3-20250911
TB01-20250911
TB02-20250911

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: 9/23/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

AECOM Technical Services, Inc.

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

Project # N/A

Order ID # Q3095

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

32 Water samples were received on 09/12/2025.

B. Parameters

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

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Internal Standards Areas were met for all analysis except for RE104D3-20250910,

The above failure Internal Standard not associated with the client parameters list, therefore no corrective action was taken.

The Retention Times were met for all analysis.

The MS {Q3095-06MS} with File ID: BN037743.D recoveries met the requirements for all compounds except for 1,4-Dioxane[30%], due to Matrix interference therefore no corrective action needed .

The MSD {Q3095-07MSD} with File ID: BN037744.D recoveries met the requirements for all compounds except for 1,4-Dioxane[27%], due to Matrix interference therefore no corrective action needed.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

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

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.



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Sample MW201D-20250908 was diluted due to high concentration.

E. Additional Comments:

The sample # MW203D2-20250909MS and MW203D2-20250909MSD is failing for cis-1,2-Dichloroethene and the original sample(MW203D2-20250909) is reported with M flag for this compounds.

The Sample MW202D-20250909, have the concentration of target compound below method detection limits; therefore it is not reported as Hit in Form1.

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092
NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

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

ORDER ID: Q3095

MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements. The Continuous Calibration met the requirements.			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. The Surrogate recoveries were met for all analysis.		✓	
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 {Q3095-06MS} with File ID: BN037743.D recoveries met the requirements for all compounds except for 1,4-Dioxane[30%], due to Matrix interference therefore no corrective action needed . The MSD {Q3095-07MSD} with File ID: BN037744.D recoveries met the requirements for all compounds except for 1,4-Dioxane[27%], due to Matrix interference therefore no corrective action needed . The Blank Spike met requirements for all compounds.		✓	

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

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

(CONTINUED)

	NA	NO	YES
9. Internal Standard Area/Retention Time Shift Meet Criteria		✓	
Comments: The Internal Standards Areas were met for all analysis except for RE104D3-20250910, The above failure Internal Standard not associated with the client parameters list, therefore no corrective action was taken.			
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 # MW203D2-20250909MS and MW203D2-20250909MSD is failing for cis-1,2-Dichloroethene and the original sample(MW203D2-20250909) is reported with M flag for this compounds.

The Sample MW202D-20250909, have the concentration of target compound below method detection limits; therefore it is not reported as Hit in Form1

Sample MW201D-20250908 was diluted due to high concentration.

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 #: Q3095

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: 09/23/2025

LAB CHRONICLE

OrderID:	Q3095	OrderDate:	9/12/2025 12:38:00 PM
Client:	AECOM Technical Services, Inc.	Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	Location:	D31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3095-01	MW305I-20250908	Water	SVOC-SIMGroup1	8270-Modified	09/08/25	09/15/25	09/17/25	09/12/25
Q3095-02	MW179D-20250908	Water	SVOC-SIMGroup1	8270-Modified	09/08/25	09/15/25	09/17/25	09/12/25
Q3095-03	MW201D-20250908	Water	SVOC-SIMGroup1	8270-Modified	09/08/25	09/15/25	09/17/25	09/12/25
Q3095-03DL	MW201D-20250908DL	Water	SVOC-SIMGroup1	8270-Modified	09/08/25	09/15/25	09/18/25	09/12/25
Q3095-04	MW179D1-20250908	Water	SVOC-SIMGroup1	8270-Modified	09/08/25	09/15/25	09/17/25	09/12/25
Q3095-05	MW203D2-20250909	Water	SVOC-SIMGroup1	8270-Modified	09/09/25	09/15/25	09/17/25	09/12/25
Q3095-08	MW203D1-20250909	Water	SVOC-SIMGroup1	8270-Modified	09/09/25	09/15/25	09/17/25	09/12/25
Q3095-09	MW179D2-20250909	Water	SVOC-SIMGroup1	8270-Modified	09/09/25	09/15/25	09/17/25	09/12/25
Q3095-10	MW201D1-20250909	Water	SVOC-SIMGroup1	8270-Modified	09/09/25	09/15/25	09/17/25	09/12/25
Q3095-11	RE122D1-20250909	Water	SVOC-SIMGroup1	8270-Modified	09/09/25	09/15/25	09/17/25	09/12/25
Q3095-12	MW202D-20250909	Water	SVOC-SIMGroup1	8270-Modified	09/09/25	09/15/25	09/18/25	09/12/25
Q3095-13	MW178I1-20250909	Water			09/09/25			09/12/25

LAB CHRONICLE

			SVOC-SIMGroup1	8270-Modified		09/15/25	09/17/25	
Q3095-14	RE123D1-20250909	Water			09/09/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/18/25	
Q3095-15	RE123D3-20250909	Water			09/09/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/18/25	
Q3095-16	MW305D-20250909	Water			09/09/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/18/25	
Q3095-17	DUP01-20250909	Water			09/09/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/18/25	
Q3095-18	RE126D2-20250909	Water			09/09/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/18/25	
Q3095-19	RE126D3-20250909	Water			09/09/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/18/25	
Q3095-20	MW178S-20250910	Water			09/10/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/18/25	
Q3095-21	RE126D1-20250910	Water			09/10/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/18/25	
Q3095-22	MW202D1-20250910	Water			09/10/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/18/25	
Q3095-23	RE104D2-20250910	Water			09/10/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/18/25	
Q3095-24	MW178I-20250910	Water			09/10/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/18/25	
Q3095-25	DUP02-20250910	Water			09/10/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/18/25	
Q3095-26	DUP03-20250910	Water			09/10/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/18/25	
Q3095-27	RE117D1-20250910	Water			09/10/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/19/25	

LAB CHRONICLE

Q3095-28	RE104D3-20250910	Water			09/10/25		09/12/25
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/20/25
Q3095-29	RE122D2-20250910	Water			09/10/25		09/12/25
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/19/25
Q3095-30	RE104D1-20250910	Water			09/10/25		09/12/25
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/19/25
Q3095-31	TT180D-20250911	Water			09/11/25		09/12/25
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/19/25
Q3095-32	RE122D3-20250911	Water			09/11/25		09/12/25
			SVOC-SIMGroup1	8270-Modified		09/15/25	09/19/25



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

Hit Summary Sheet SW-846

SDG No.: Q3095
Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	MW305I-20250908								
Q3095-01	MW305I-20250908	WATER	1,4-Dioxane	0.430		0.07	0.2	0.2	ug/L
			Total Svoc :			0.43			
			Total Concentration:			0.43			
Client ID :	MW179D-20250908								
Q3095-02	MW179D-20250908	WATER	1,4-Dioxane	0.160	J	0.07	0.2	0.2	ug/L
			Total Svoc :			0.16			
			Total Concentration:			0.16			
Client ID :	MW201D-20250908								
Q3095-03	MW201D-20250908	WATER	1,4-Dioxane	5.900	E	0.07	0.2	0.2	ug/L
			Total Svoc :			5.90			
			Total Concentration:			5.90			
Client ID :	MW201D-20250908DL								
Q3095-03DL	MW201D-20250908DL	WATER	1,4-Dioxane	5.700	D	0.13	0.4	0.4	ug/L
			Total Svoc :			5.70			
			Total Concentration:			5.70			
Client ID :	MW179D1-20250908								
Q3095-04	MW179D1-20250908	WATER	1,4-Dioxane	0.220		0.07	0.2	0.2	ug/L
			Total Svoc :			0.22			
			Total Concentration:			0.22			
Client ID :	MW203D2-20250909								
Q3095-05	MW203D2-20250909	WATER	1,4-Dioxane	0.850	M	0.07	0.2	0.2	ug/L
			Total Svoc :			0.85			
			Total Concentration:			0.85			
Client ID :	MW203D1-20250909								
Q3095-08	MW203D1-20250909	WATER	1,4-Dioxane	0.950		0.07	0.2	0.2	ug/L
			Total Svoc :			0.95			
			Total Concentration:			0.95			
Client ID :	MW179D2-20250909								
Q3095-09	MW179D2-20250909	WATER	1,4-Dioxane	0.620		0.07	0.21	0.21	ug/L
			Total Svoc :			0.62			
			Total Concentration:			0.62			
Client ID :	MW201D1-20250909								
Q3095-10	MW201D1-20250909	WATER	1,4-Dioxane	0.070	J	0.07	0.2	0.2	ug/L
			Total Svoc :			0.07			

Hit Summary Sheet
SW-846

SDG No.: Q3095
Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Total Concentration:				0.07				
Client ID :	RE122D1-20250909							
Q3095-11	RE122D1-20250909	WATER	1,4-Dioxane	2.800	0.07	0.2	0.2	ug/L
Total Svoc :				2.80				
Total Concentration:				2.80				
Client ID :	MW178I1-20250909							
Q3095-13	MW178I1-20250909	WATER	1,4-Dioxane	0.660	0.07	0.2	0.2	ug/L
Total Svoc :				0.66				
Total Concentration:				0.66				
Client ID :	RE123D1-20250909							
Q3095-14	RE123D1-20250909	WATER	1,4-Dioxane	0.740	0.07	0.21	0.21	ug/L
Total Svoc :				0.74				
Total Concentration:				0.74				
Client ID :	MW305D-20250909							
Q3095-16	MW305D-20250909	WATER	1,4-Dioxane	0.530	0.07	0.2	0.2	ug/L
Total Svoc :				0.53				
Total Concentration:				0.53				
Client ID :	DUP01-20250909							
Q3095-17	DUP01-20250909	WATER	1,4-Dioxane	0.520	0.07	0.2	0.2	ug/L
Total Svoc :				0.52				
Total Concentration:				0.52				
Client ID :	RE126D2-20250909							
Q3095-18	RE126D2-20250909	WATER	1,4-Dioxane	2.600	0.07	0.2	0.2	ug/L
Total Svoc :				2.60				
Total Concentration:				2.60				
Client ID :	RE126D3-20250909							
Q3095-19	RE126D3-20250909	WATER	1,4-Dioxane	0.430	0.07	0.2	0.2	ug/L
Total Svoc :				0.43				
Total Concentration:				0.43				
Client ID :	MW178S-20250910							
Q3095-20	MW178S-20250910	WATER	1,4-Dioxane	0.110 J	0.07	0.2	0.2	ug/L
Total Svoc :				0.11				
Total Concentration:				0.11				
Client ID :	RE126D1-20250910							
Q3095-21	RE126D1-20250910	WATER	1,4-Dioxane	2.200	0.07	0.2	0.2	ug/L
Total Svoc :				2.20				

Hit Summary Sheet
SW-846

SDG No.: Q3095
Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Total Concentration:			2.20					
Client ID :	RE104D2-20250910							
Q3095-23	RE104D2-20250910	WATER	1,4-Dioxane	2.100	0.07	0.2	0.2	ug/L
Total Svoc :			2.10					
Total Concentration:			2.10					
Client ID :	MW178I-20250910							
Q3095-24	MW178I-20250910	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 :	DUP02-20250910							
Q3095-25	DUP02-20250910	WATER	1,4-Dioxane	3.400	0.07	0.21	0.21	ug/L
Total Svoc :			3.40					
Total Concentration:			3.40					
Client ID :	DUP03-20250910							
Q3095-26	DUP03-20250910	WATER	1,4-Dioxane	0.110 J	0.07	0.2	0.2	ug/L
Total Svoc :			0.11					
Total Concentration:			0.11					
Client ID :	RE117D1-20250910							
Q3095-27	RE117D1-20250910	WATER	1,4-Dioxane	0.740	0.07	0.2	0.2	ug/L
Total Svoc :			0.74					
Total Concentration:			0.74					
Client ID :	RE122D2-20250910							
Q3095-29	RE122D2-20250910	WATER	1,4-Dioxane	3.800	0.07	0.2	0.2	ug/L
Total Svoc :			3.80					
Total Concentration:			3.80					
Client ID :	RE104D1-20250910							
Q3095-30	RE104D1-20250910	WATER	1,4-Dioxane	3.000	0.07	0.2	0.2	ug/L
Total Svoc :			3.00					
Total Concentration:			3.00					
Client ID :	TT180D-20250911							
Q3095-31	TT180D-20250911	WATER	1,4-Dioxane	0.110 J	0.07	0.2	0.2	ug/L
Total Svoc :			0.11					
Total Concentration:			0.11					



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q3095

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB169692BL	PB169692BL	2-Methylnaphthalene-d10	0.4	0.31	79		30	150
		Fluoranthene-d10	0.4	0.30	75		30	150
		Nitrobenzene-d5	0.4	0.39	97		55	111
		2-Fluorobiphenyl	0.4	0.37	92		53	106
		Terphenyl-d14	0.4	0.34	84		58	132
PB169692BS	PB169692BS	2-Methylnaphthalene-d10	0.4	0.30	76		30	150
		Fluoranthene-d10	0.4	0.30	75		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.31	78		58	132
Q3095-01	MW305I-20250908	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.32	80		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.42	105		58	132
Q3095-02	MW179D-20250908	2-Methylnaphthalene-d10	0.4	0.32	80		30	150
		Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.35	86		55	111
		2-Fluorobiphenyl	0.4	0.37	91		53	106
		Terphenyl-d14	0.4	0.42	105		58	132
Q3095-03	MW201D-20250908	2-Methylnaphthalene-d10	0.4	0.30	74		30	150
		Fluoranthene-d10	0.4	0.36	91		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.39	98		58	132
Q3095-03DL	MW201D-20250908DL	2-Methylnaphthalene-d10	0.4	0.29	73		30	150
		Fluoranthene-d10	0.4	0.33	81		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.32	81		53	106
		Terphenyl-d14	0.4	0.41	101		58	132
Q3095-04	MW179D1-20250908	2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.38	95		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.43	107		58	132
Q3095-05	MW203D2-20250909	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.34	84		30	150
		Nitrobenzene-d5	0.4	0.30	76		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.50	124		58	132
Q3095-06MS	MW203D2-20250909MS	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.33	83		30	150
		Nitrobenzene-d5	0.4	0.30	75		55	111
		2-Fluorobiphenyl	0.4	0.32	79		53	106
		Terphenyl-d14	0.4	0.40	99		58	132
Q3095-07MSD	MW203D2-20250909MSD	2-Methylnaphthalene-d10	0.4	0.30	74		30	150
		Fluoranthene-d10	0.4	0.33	83		30	150
		Nitrobenzene-d5	0.4	0.30	75		55	111
		2-Fluorobiphenyl	0.4	0.32	79		53	106
		Terphenyl-d14	0.4	0.40	99		58	132
Q3095-08	MW203D1-20250909	2-Methylnaphthalene-d10	0.4	0.30	75		30	150

Surrogate Summary

SW-846

SDG No.: Q3095

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3095-08	MW203D1-20250909	Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.32	81		55	111
		2-Fluorobiphenyl	0.4	0.34	84		53	106
		Terphenyl-d14	0.4	0.47	117		58	132
Q3095-09	MW179D2-20250909	2-Methylnaphthalene-d10	0.4	0.30	74		30	150
		Fluoranthene-d10	0.4	0.35	87		30	150
		Nitrobenzene-d5	0.4	0.32	80		55	111
		2-Fluorobiphenyl	0.4	0.32	81		53	106
Q3095-10	MW201D1-20250909	Terphenyl-d14	0.4	0.40	99		58	132
		2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.37	94		30	150
		Nitrobenzene-d5	0.4	0.31	77		55	111
Q3095-11	RE122D1-20250909	2-Fluorobiphenyl	0.4	0.31	78		53	106
		Terphenyl-d14	0.4	0.37	92		58	132
		2-Methylnaphthalene-d10	0.4	0.34	84		30	150
		Fluoranthene-d10	0.4	0.37	93		30	150
Q3095-12	MW202D-20250909	Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.35	87		53	106
		Terphenyl-d14	0.4	0.46	116		58	132
		2-Methylnaphthalene-d10	0.4	0.31	77		30	150
Q3095-13	MW178I1-20250909	Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.34	84		55	111
		2-Fluorobiphenyl	0.4	0.35	87		53	106
		Terphenyl-d14	0.4	0.40	100		58	132
Q3095-14	RE123D1-20250909	2-Methylnaphthalene-d10	0.4	0.29	73		30	150
		Fluoranthene-d10	0.4	0.36	91		30	150
		Nitrobenzene-d5	0.4	0.31	78		55	111
		2-Fluorobiphenyl	0.4	0.32	80		53	106
Q3095-15	RE123D3-20250909	Terphenyl-d14	0.4	0.38	95		58	132
		2-Methylnaphthalene-d10	0.4	0.30	75		30	150
		Fluoranthene-d10	0.4	0.37	93		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
Q3095-16	MW305D-20250909	2-Fluorobiphenyl	0.4	0.31	79		53	106
		Terphenyl-d14	0.4	0.37	93		58	132
		2-Methylnaphthalene-d10	0.4	0.22	54		30	150
		Fluoranthene-d10	0.4	0.25	63		30	150
Q3095-17	DUP01-20250909	Nitrobenzene-d5	0.4	0.23	58		55	111
		2-Fluorobiphenyl	0.4	0.23	58		53	106
		Terphenyl-d14	0.4	0.28	70		58	132
		2-Methylnaphthalene-d10	0.4	0.29	72		30	150
Q3095-18	RE126D2-20250909	Fluoranthene-d10	0.4	0.38	96		30	150
		Nitrobenzene-d5	0.4	0.31	79		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.39	97		58	132
Q3095-19		2-Methylnaphthalene-d10	0.4	0.30	75		30	150
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.33	81		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
Q3095-20		Terphenyl-d14	0.4	0.43	106		58	132
		2-Methylnaphthalene-d10	0.4	0.29	72		30	150
Q3095-21		Fluoranthene-d10	0.4	0.35	88		30	150

Surrogate Summary

SW-846

SDG No.: Q3095

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3095-18	RE126D2-20250909	Nitrobenzene-d5	0.4	0.31	76		55	111
		2-Fluorobiphenyl	0.4	0.32	79		53	106
		Terphenyl-d14	0.4	0.43	108		58	132
Q3095-19	RE126D3-20250909	2-Methylnaphthalene-d10	0.4	0.34	85		30	150
		Fluoranthene-d10	0.4	0.41	103		30	150
		Nitrobenzene-d5	0.4	0.37	93		55	111
Q3095-20	MW178S-20250910	2-Fluorobiphenyl	0.4	0.38	95		53	106
		Terphenyl-d14	0.4	0.48	120		58	132
		2-Methylnaphthalene-d10	0.4	0.26	64		30	150
		Fluoranthene-d10	0.4	0.30	76		30	150
		Nitrobenzene-d5	0.4	0.28	71		55	111
		2-Fluorobiphenyl	0.4	0.28	71		53	106
		Terphenyl-d14	0.4	0.29	74		58	132

Surrogate Summary

SW-846

SDG No.: Q3095

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB169693BL	PB169693BL	2-Methylnaphthalene-d10	0.4	0.33	82		30	150
		Fluoranthene-d10	0.4	0.32	80		30	150
		Nitrobenzene-d5	0.4	0.38	96		55	111
		2-Fluorobiphenyl	0.4	0.40	99		53	106
		Terphenyl-d14	0.4	0.36	90		58	132
PB169693BS	PB169693BS	2-Methylnaphthalene-d10	0.4	0.31	77		30	150
		Fluoranthene-d10	0.4	0.29	73		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.37	92		53	106
		Terphenyl-d14	0.4	0.32	81		58	132
Q3095-21	RE126D1-20250910	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.35	86		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.30	74		53	106
		Terphenyl-d14	0.4	0.36	90		58	132
Q3095-22	MW202D1-20250910	2-Methylnaphthalene-d10	0.4	0.34	86		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.37	93		55	111
		2-Fluorobiphenyl	0.4	0.38	94		53	106
		Terphenyl-d14	0.4	0.39	98		58	132
Q3095-23	RE104D2-20250910	2-Methylnaphthalene-d10	0.4	0.32	81		30	150
		Fluoranthene-d10	0.4	0.38	95		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.35	86		53	106
		Terphenyl-d14	0.4	0.40	99		58	132
Q3095-24	MW178I-20250910	2-Methylnaphthalene-d10	0.4	0.28	69		30	150
		Fluoranthene-d10	0.4	0.33	81		30	150
		Nitrobenzene-d5	0.4	0.31	76		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.39	97		58	132
Q3095-25	DUP02-20250910	2-Methylnaphthalene-d10	0.4	0.30	75		30	150
		Fluoranthene-d10	0.4	0.34	84		30	150
		Nitrobenzene-d5	0.4	0.33	83		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.43	108		58	132
Q3095-26	DUP03-20250910	2-Methylnaphthalene-d10	0.4	0.32	80		30	150
		Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.37	92		53	106
		Terphenyl-d14	0.4	0.39	96		58	132
Q3095-27	RE117D1-20250910	2-Methylnaphthalene-d10	0.4	0.35	87		30	150
		Fluoranthene-d10	0.4	0.39	98		30	150
		Nitrobenzene-d5	0.4	0.41	103		55	111
		2-Fluorobiphenyl	0.4	0.40	101		53	106
		Terphenyl-d14	0.4	0.40	100		58	132
Q3095-28	RE104D3-20250910	2-Methylnaphthalene-d10	0.4	0.32	80		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.38	96		53	106
		Terphenyl-d14	0.4	0.39	98		58	132
Q3095-29	RE122D2-20250910	2-Methylnaphthalene-d10	0.4	0.35	87		30	150

Surrogate Summary

SW-846

SDG No.: Q3095

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3095-29	RE122D2-20250910	Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.39	98		55	111
		2-Fluorobiphenyl	0.4	0.41	101		53	106
		Terphenyl-d14	0.4	0.39	98		58	132
Q3095-30	RE104D1-20250910	2-Methylnaphthalene-d10	0.4	0.33	83		30	150
		Fluoranthene-d10	0.4	0.37	91		30	150
		Nitrobenzene-d5	0.4	0.37	92		55	111
		2-Fluorobiphenyl	0.4	0.37	93		53	106
Q3095-31	TT180D-20250911	Terphenyl-d14	0.4	0.38	95		58	132
		2-Methylnaphthalene-d10	0.4	0.34	86		30	150
		Fluoranthene-d10	0.4	0.36	91		30	150
		Nitrobenzene-d5	0.4	0.39	97		55	111
Q3095-32	RE122D3-20250911	2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.39	97		58	132
		2-Methylnaphthalene-d10	0.4	0.35	86		30	150
		Fluoranthene-d10	0.4	0.38	96		30	150
Q3097-02MS	RE103D2-20250911MS	Nitrobenzene-d5	0.4	0.39	98		55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.41	103		58	132
		2-Methylnaphthalene-d10	0.4	0.28	70		30	150
Q3097-03MSD	RE103D2-20250911MSD	Fluoranthene-d10	0.4	0.35	87		30	150
		Nitrobenzene-d5	0.4	0.33	81		55	111
		2-Fluorobiphenyl	0.4	0.30	76		53	106
		Terphenyl-d14	0.4	0.43	107		58	132
		2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.31	76		53	106
		Terphenyl-d14	0.4	0.41	101		58	132

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3095

Analytical Method: SW8270-Modified

Client: AECOM Technical Services, Inc.

DataFile: BN037743.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: Q3095-06MS		Client Sample ID: MW203D2-20250909MS									
1,4-Dioxane	0.4	0.85	0.97	ug/L	30	*			70	130	



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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.:	Q3095	Analytical Method:	SW8270-Modified
Client:	AECOM Technical Services, Inc.	DataFile:	BN037744.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q3095-07MSD	Client Sample ID:	MW203D2-20250909MSD								
1,4-Dioxane	0.4	0.85	0.96	ug/L	27	*	11		70	130	20

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3095

Analytical Method: SW8270-Modified

Client: AECOM Technical Services, Inc.

DataFile: BN037772.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q3097-02MS	Client Sample ID:	RE103D2-20250911MS								
1,4-Dioxane	0.4	0.37	0.72	ug/L	88				70	130	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3095

Analytical Method: SW8270-Modified

Client: AECOM Technical Services, Inc.

DataFile: BN037773.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q3097-03MSD	Client Sample ID:	RE103D2-20250911MSD								
1,4-Dioxane	0.4	0.37	0.73	ug/L	90		2		70	130	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3095

Analytical Method: 8270-Modified

Client: AECOM Technical Services, Inc.

DataFile: BN037791.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB169692BS	1,4-Dioxane	0.4	0.30	ug/L	75				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3095

Analytical Method: 8270-Modified

Client: AECOM Technical Services, Inc.

DataFile: BN037792.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB169693BS	1,4-Dioxane	0.4	0.31	ug/L	78				70	130	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB169692BL

Lab Name: Alliance

Contract: AECO15

Lab Code: ACE

SDG NO.: Q3095

Lab File ID: BN037796.D

Lab Sample ID: PB169692BL

Instrument ID: BNA_N

Date Extracted: 09/15/2025

Matrix: (soil/water) Water

Date Analyzed: 09/19/2025

Level: (low/med) LOW

Time Analyzed: 03:24

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB169692BS	PB169692BS	BN037791.D	09/18/2025
MW305I-20250908	Q3095-01	BN037747.D	09/17/2025
MW179D-20250908	Q3095-02	BN037748.D	09/17/2025
MW203D2-20250909	Q3095-05	BN037742.D	09/17/2025
MW203D2-20250909MS	Q3095-06MS	BN037743.D	09/17/2025
MW201D-20250908	Q3095-03	BN037749.D	09/17/2025
MW179D1-20250908	Q3095-04	BN037750.D	09/17/2025
MW203D2-20250909MSD	Q3095-07MSD	BN037744.D	09/17/2025
MW203D1-20250909	Q3095-08	BN037751.D	09/17/2025
MW179D2-20250909	Q3095-09	BN037752.D	09/17/2025
MW201D1-20250909	Q3095-10	BN037753.D	09/17/2025
RE122D1-20250909	Q3095-11	BN037754.D	09/17/2025
MW178I1-20250909	Q3095-13	BN037755.D	09/17/2025
MW202D-20250909	Q3095-12	BN037761.D	09/18/2025
RE123D1-20250909	Q3095-14	BN037762.D	09/18/2025
RE123D3-20250909	Q3095-15	BN037763.D	09/18/2025
MW305D-20250909	Q3095-16	BN037764.D	09/18/2025
DUP01-20250909	Q3095-17	BN037765.D	09/18/2025
RE126D2-20250909	Q3095-18	BN037766.D	09/18/2025
RE126D3-20250909	Q3095-19	BN037767.D	09/18/2025
MW178S-20250910	Q3095-20	BN037768.D	09/18/2025

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB169693BL

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG NO.: Q3095

Lab File ID: BN037777.D Lab Sample ID: PB169693BL

Instrument ID: BNA_N Date Extracted: 09/15/2025

Matrix: (soil/water) Water Date Analyzed: 09/18/2025

Level: (low/med) LOW Time Analyzed: 15:10

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
RE126D1-20250910	Q3095-21	BN037783.D	09/18/2025
MW202D1-20250910	Q3095-22	BN037784.D	09/18/2025
RE104D2-20250910	Q3095-23	BN037785.D	09/18/2025
MW178I-20250910	Q3095-24	BN037786.D	09/18/2025
PB169693BS	PB169693BS	BN037792.D	09/19/2025
DUP02-20250910	Q3095-25	BN037787.D	09/18/2025
DUP03-20250910	Q3095-26	BN037788.D	09/18/2025
RE122D2-20250910	Q3095-29	BN037797.D	09/19/2025
RE104D1-20250910	Q3095-30	BN037798.D	09/19/2025
TT180D-20250911	Q3095-31	BN037799.D	09/19/2025
RE122D3-20250911	Q3095-32	BN037800.D	09/19/2025
RE117D1-20250910	Q3095-27	BN037815.D	09/19/2025
RE104D3-20250910	Q3095-28	BN037843.D	09/20/2025
RE103D2-20250911MS	Q3097-02MS	BN037772.D	09/18/2025
RE103D2-20250911MSD	Q3097-03MSD	BN037773.D	09/18/2025

COMMENTS:



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037689.D
Instrument ID: BNA_N

Contract: AECO15
SDG NO.: Q3095
DFTPP Injection Date: 09/11/2025
DFTPP Injection Time: 07:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.4 (1) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.2
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	79.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.5 (20.4) 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	BN037691.D	09/11/2025	09:56
SSTDICC0.2	SSTDICC0.2	BN037692.D	09/11/2025	10:32
SSTDICCC0.4	SSTDICCC0.4	BN037693.D	09/11/2025	11:08
SSTDICC0.8	SSTDICC0.8	BN037694.D	09/11/2025	11:44
SSTDICC1.6	SSTDICC1.6	BN037695.D	09/11/2025	12:20
SSTDICC3.2	SSTDICC3.2	BN037696.D	09/11/2025	12:56
SSTDICC5.0	SSTDICC5.0	BN037697.D	09/11/2025	13:33



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037739.D
Instrument ID: BNA_N

Contract: AECO15
SDG NO.: Q3095
DFTPP Injection Date: 09/17/2025
DFTPP Injection Time: 10:46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.3) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.4) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	82.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.7 (21.3) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037740.D	09/17/2025	11:25
MW203D2-20250909	Q3095-05	BN037742.D	09/17/2025	12:38
MW203D2-20250909MS	Q3095-06MS	BN037743.D	09/17/2025	13:14
MW203D2-20250909MSD	Q3095-07MSD	BN037744.D	09/17/2025	13:59
MW305I-20250908	Q3095-01	BN037747.D	09/17/2025	15:47
MW179D-20250908	Q3095-02	BN037748.D	09/17/2025	16:24
MW201D-20250908	Q3095-03	BN037749.D	09/17/2025	17:00
MW179D1-20250908	Q3095-04	BN037750.D	09/17/2025	17:36
MW203D1-20250909	Q3095-08	BN037751.D	09/17/2025	18:13
MW179D2-20250909	Q3095-09	BN037752.D	09/17/2025	18:49
MW201D1-20250909	Q3095-10	BN037753.D	09/17/2025	19:25
RE122D1-20250909	Q3095-11	BN037754.D	09/17/2025	20:01
MW178I1-20250909	Q3095-13	BN037755.D	09/17/2025	20:37
SSTDCCC0.4EC	SSTDCCC0.4	BN037757.D	09/17/2025	21:50



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037758.D
Instrument ID: BNA_N

Contract: AECO15
SDG NO.: Q3095
DFTPP Injection Date: 09/18/2025
DFTPP Injection Time: 02:06

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.4 (1.1) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	86.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.5 (19.9) 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	BN037759.D	09/18/2025	02:46
MW202D-20250909	Q3095-12	BN037761.D	09/18/2025	03:58
RE123D1-20250909	Q3095-14	BN037762.D	09/18/2025	04:34
RE123D3-20250909	Q3095-15	BN037763.D	09/18/2025	05:10
MW305D-20250909	Q3095-16	BN037764.D	09/18/2025	05:46
DUP01-20250909	Q3095-17	BN037765.D	09/18/2025	06:23
RE126D2-20250909	Q3095-18	BN037766.D	09/18/2025	06:59
RE126D3-20250909	Q3095-19	BN037767.D	09/18/2025	07:35
MW178S-20250910	Q3095-20	BN037768.D	09/18/2025	08:11
RE103D2-20250911MS	Q3097-02MS	BN037772.D	09/18/2025	11:48
RE103D2-20250911MSD	Q3097-03MSD	BN037773.D	09/18/2025	12:25
SSTDCCC0.4EC	SSTDCCC0.4	BN037774.D	09/18/2025	13:16



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037775.D
Instrument ID: BNA_N

Contract: AECO15
SDG NO.: Q3095
DFTPP Injection Date: 09/18/2025
DFTPP Injection Time: 13:53

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.7) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
365	Greater than 1% of mass 198	3.4
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	16.2 (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	BN037776.D	09/18/2025	14:32
PB169693BL	PB169693BL	BN037777.D	09/18/2025	15:10
RE126D1-20250910	Q3095-21	BN037783.D	09/18/2025	18:49
MW202D1-20250910	Q3095-22	BN037784.D	09/18/2025	19:25
RE104D2-20250910	Q3095-23	BN037785.D	09/18/2025	20:02
MW178I-20250910	Q3095-24	BN037786.D	09/18/2025	20:38
DUP02-20250910	Q3095-25	BN037787.D	09/18/2025	21:14
DUP03-20250910	Q3095-26	BN037788.D	09/18/2025	21:51
MW201D-20250908DL	Q3095-03DL	BN037789.D	09/18/2025	22:27
PB169692BS	PB169692BS	BN037791.D	09/18/2025	23:40
PB169693BS	PB169693BS	BN037792.D	09/19/2025	00:16
SSTDCCC0.4EC	SSTDCCC0.4	BN037793.D	09/19/2025	00:52



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037794.D
Instrument ID: BNA_N

Contract: AECO15
SDG NO.: Q3095
DFTPP Injection Date: 09/19/2025
DFTPP Injection Time: 02:08

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.4) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	86.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.9 (18.3) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037795.D	09/19/2025	02:47
PB169692BL	PB169692BL	BN037796.D	09/19/2025	03:24
RE122D2-20250910	Q3095-29	BN037797.D	09/19/2025	04:00
RE104D1-20250910	Q3095-30	BN037798.D	09/19/2025	04:37
TT180D-20250911	Q3095-31	BN037799.D	09/19/2025	05:13
RE122D3-20250911	Q3095-32	BN037800.D	09/19/2025	05:49
SSTDCCC0.4EC	SSTDCCC0.4	BN037811.D	09/19/2025	13:03



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037812.D
Instrument ID: BNA_N

Contract: AECO15
SDG NO.: Q3095
DFTPP Injection Date: 09/19/2025
DFTPP Injection Time: 13:39

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.4) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	80.8
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
SSTDCCC0.4	SSTDCCC0.4	BN037813.D	09/19/2025	14:19
RE117D1-20250910	Q3095-27	BN037815.D	09/19/2025	15:32
SSTDCCC0.4EC	SSTDCCC0.4	BN037830.D	09/20/2025	00:39



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037831.D
Instrument ID: BNA_N

Contract: AECO15
SDG NO.: Q3095
DFTPP Injection Date: 09/20/2025
DFTPP Injection Time: 01:16

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.8 (1.9) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	81.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.2 (20.2) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037832.D	09/20/2025	02:35
RE104D3-20250910	Q3095-28	BN037843.D	09/20/2025	09:14
SSTDCCC0.4EC	SSTDCCC0.4	BN037847.D	09/20/2025	11:39

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3095

Client ID : SSTDCCC0.4

Date Analyzed: 09/17/2025

Lab File ID: BN037740.D

Time Analyzed: 11:25

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	6660	7.84	18396	10.65	8930	14.50
UPPER LIMIT	13320	8.34	36792	11.148	17860	14.995
LOWER LIMIT	3330	7.34	9198	10.148	4465	13.995
EPA SAMPLE NO.						
01 MW305I-20250908	6426	7.84	17307	10.64	7564	14.49
02 MW179D-20250908	6623	7.84	18145	10.64	8084	14.49
03 MW201D-20250908	6464	7.84	17423	10.64	7814	14.50
04 MW179D1-20250908	6641	7.84	17861	10.64	7906	14.50
05 MW203D2-20250909	7535	7.84	20988	10.65	9821	14.49
06 MW203D2-20250909MS	6853	7.84	18950	10.64	8815	14.49
07 MW203D2-20250909MSD	7569	7.85	20880	10.65	9823	14.49
08 MW203D1-20250909	6737	7.84	18255	10.64	8162	14.50
09 MW179D2-20250909	6450	7.84	17530	10.64	7934	14.49
10 MW201D1-20250909	6375	7.83	17020	10.64	7746	14.48
11 RE122D1-20250909	6754	7.83	18549	10.64	8723	14.49
12 MW178I1-20250909	6476	7.83	17530	10.64	7818	14.49

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3095

Client ID: SSTDCCC0.4

Date Analyzed: 09/17/2025

Lab File ID: BN037740.D

Time Analyzed: 11:25

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	15814	17.235	13841	21.42	14132	23.753
	UPPER LIMIT	31628	17.735	27682	21.92	28264	24.253
	LOWER LIMIT	7907	16.735	6920.5	20.92	7066	23.253
	EPA SAMPLE NO.						
01	MW305I-20250908	13404	17.24	10925	21.41	10440	23.75
02	MW179D-20250908	13859	17.24	11041	21.41	10735	23.75
03	MW201D-20250908	14079	17.24	12160	21.41	12015	23.75
04	MW179D1-20250908	13742	17.24	11462	21.41	11339	23.75
05	MW203D2-20250909	16837	17.24	12718	21.41	12632	23.75
06	MW203D2-20250909MS	15289	17.24	13059	21.42	12757	23.75
07	MW203D2-20250909MSD	16954	17.24	14253	21.42	13967	23.76
08	MW203D1-20250909	14474	17.24	12341	21.41	12297	23.75
09	MW179D2-20250909	13430	17.24	10479	21.41	10489	23.75
10	MW201D1-20250909	13901	17.24	12559	21.41	12839	23.75
11	RE122D1-20250909	14502	17.24	10754	21.41	10771	23.75
12	MW178I1-20250909	14505	17.24	12734	21.41	12709	23.75

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3095

Client ID : SSTDCCC0.4

Date Analyzed: 09/18/2025

Lab File ID: BN037759.D

Time Analyzed: 02:46

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	8012	7.833	21664	10.64	10192	14.48
UPPER LIMIT	16024	8.333	43328	11.137	20384	14.984
LOWER LIMIT	4006	7.333	10832	10.137	5096	13.984
EPA SAMPLE NO.						
01 MW202D-20250909	7232	7.83	19420	10.64	8613	14.48
02 RE123D1-20250909	6993	7.83	18780	10.64	8989	14.48
03 RE123D3-20250909	7985	7.83	22130	10.64	10297	14.48
04 MW305D-20250909	7657	7.83	21168	10.64	9850	14.48
05 DUP01-20250909	7819	7.83	21320	10.64	9718	14.48
06 RE126D2-20250909	8399	7.83	23335	10.64	10732	14.48
07 RE126D3-20250909	8360	7.83	22865	10.64	10200	14.48
08 MW178S-20250910	7451	7.83	19960	10.64	9139	14.48
09 RE103D2-20250911MS	7218	7.83	19437	10.64	8792	14.48
10 RE103D2-20250911MSD	7159	7.83	19099	10.64	8494	14.48

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3095

Client ID: SSTDCCC0.4

Date Analyzed: 09/18/2025

Lab File ID: BN037759.D

Time Analyzed: 02:46

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	18613	17.235	16797	21.411	18043	23.741
	UPPER LIMIT	37226	17.735	33594	21.911	36086	24.241
	LOWER LIMIT	9306.5	16.735	8398.5	20.911	9021.5	23.241
	EPA SAMPLE NO.						
01	MW202D-20250909	15444	17.24	12865	21.41	13080	23.74
02	RE123D1-20250909	16581	17.24	13960	21.41	14258	23.74
03	RE123D3-20250909	18311	17.24	14395	21.41	14910	23.74
04	MW305D-20250909	18466	17.24	16400	21.41	17053	23.74
05	DUP01-20250909	17159	17.24	13647	21.41	14246	23.74
06	RE126D2-20250909	18615	17.24	13639	21.41	14319	23.75
07	RE126D3-20250909	17532	17.24	14129	21.41	14395	23.75
08	MW178S-20250910	17489	17.24	16160	21.41	15607	23.74
09	RE103D2-20250911MS	14560	17.24	11077	21.41	10712	23.74
10	RE103D2-20250911MSD	14218	17.24	11982	21.41	11726	23.75

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3095

Client ID : SSTDCCC0.4

Date Analyzed: 09/18/2025

Lab File ID: BN037776.D

Time Analyzed: 14:32

Instrument ID: BNA_N

GC Column: ZB-GR ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	7127	7.833	18984	10.64	8698	14.48
UPPER LIMIT	14254	8.333	37968	11.137	17396	14.984
LOWER LIMIT	3563.5	7.333	9492	10.137	4349	13.984
EPA SAMPLE NO.						
01 PB169692BS	6983	7.83	18103	10.64	7729	14.48
02 PB169693BL	6667	7.84	17045	10.64	7049	14.48
03 PB169693BS	7441	7.83	19392	10.64	8149	14.48
04 MW201D-20250908DL	7715	7.83	20993	10.64	9567	14.48
05 RE126D1-20250910	8225	7.83	22467	10.64	10495	14.48
06 MW202D1-20250910	7721	7.83	20880	10.64	9442	14.48
07 RE104D2-20250910	7416	7.83	19792	10.64	9115	14.48
08 MW178I-20250910	7906	7.83	21432	10.64	9551	14.48
09 DUP02-20250910	8067	7.83	22034	10.64	10108	14.48
10 DUP03-20250910	7666	7.83	20364	10.64	8849	14.48

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3095

Client ID: SSTDCCC0.4

Date Analyzed: 09/18/2025

Lab File ID: BN037776.D

Time Analyzed: 14:32

Instrument ID: BNA_N

GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	14526	17.235	10438	21.411	10600	23.744
	UPPER LIMIT	29052	17.735	20876	21.911	21200	24.244
	LOWER LIMIT	7263	16.735	5219	20.911	5300	23.244
	EPA SAMPLE NO.						
01	PB169692BS	12277	17.24	10644	21.41	10808	23.74
02	PB169693BL	11652	17.24	9221	21.41	9002	23.75
03	PB169693BS	12386	17.24	10095	21.41	10200	23.74
04	MW201D-20250908DL	16081	17.24	11736	21.41	11717	23.74
05	RE126D1-20250910	19347	17.24	17267	21.41	17743	23.74
06	MW202D1-20250910	16202	17.24	13556	21.41	13782	23.74
07	RE104D2-20250910	16768	17.24	14951	21.41	14804	23.74
08	MW178I-20250910	16120	17.24	12351	21.41	12408	23.74
09	DUP02-20250910	17248	17.24	12319	21.41	12006	23.74
10	DUP03-20250910	15319	17.24	12443	21.41	11797	23.74

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3095

Client ID : SSTDCCC0.4

Date Analyzed: 09/19/2025

Lab File ID: BN037795.D

Time Analyzed: 02:47

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	7724	7.833	19361	10.64	8621	14.48
UPPER LIMIT	15448	8.333	38722	11.137	17242	14.984
LOWER LIMIT	3862	7.333	9680.5	10.137	4310.5	13.984
EPA SAMPLE NO.						
01 PB169692BL	7701	7.83	18665	10.64	7806	14.48
02 RE122D2-20250910	6378	7.83	15422	10.64	6530	14.48
03 RE104D1-20250910	6794	7.83	16429	10.64	7128	14.48
04 TT180D-20250911	6964	7.83	16642	10.64	7189	14.48
05 RE122D3-20250911	5969	7.83	15717	10.64	6882	14.48

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3095

Client ID: SSTDCCC0.4

Date Analyzed: 09/19/2025

Lab File ID: BN037795.D

Time Analyzed: 02:47

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	14380	17.235	11169	21.411	11840	23.742
UPPER LIMIT	28760	17.735	22338	21.911	23680	24.242
LOWER LIMIT	7190	16.735	5584.5	20.911	5920	23.242
EPA SAMPLE NO.						
01 PB169692BL	12511	17.24	10022	21.41	10278	23.74
02 RE122D2-20250910	11243	17.24	9477	21.41	9344	23.74
03 RE104D1-20250910	12460	17.24	10431	21.41	10216	23.74
04 TT180D-20250911	12481	17.24	10625	21.41	10338	23.74
05 RE122D3-20250911	11849	17.24	9882	21.41	9588	23.74

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3095

Client ID : SSTDCCC0.4

Date Analyzed: 09/19/2025

Lab File ID: BN037813.D

Time Analyzed: 14:19

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	4812	7.833	12410	10.64	5585	14.48
UPPER LIMIT	9624	8.333	24820	11.137	11170	14.984
LOWER LIMIT	2406	7.333	6205	10.137	2792.5	13.984
EPA SAMPLE NO.						
01 RE117D1-20250910	4745	7.83	12184	10.64	5111	14.48

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3095

Client ID: SSTDCCC0.4

Date Analyzed: 09/19/2025

Lab File ID: BN037813.D

Time Analyzed: 14:19

Instrument ID: BNA_N

GC Column: ZB-GR ID: 0.25 (mm)

01

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	9638	17.235	8466	21.411	8084	23.739
UPPER LIMIT	19276	17.735	16932	21.911	16168	24.239
LOWER LIMIT	4819	16.735	4233	20.911	4042	23.239
EPA SAMPLE NO.						
RE117D1-20250910	8978	17.22	8113	21.41	7855	23.74

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3095

Client ID : SSTDCCC0.4

Date Analyzed: 09/20/2025

Lab File ID: BN037832.D

Time Analyzed: 02:35

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	6232	7.825	16500	10.64	7183	14.48
UPPER LIMIT	12464	8.325	33000	11.137	14366	14.984
LOWER LIMIT	3116	7.325	8250	10.137	3591.5	13.984
EPA SAMPLE NO.						
01 RE104D3-20250910	5576	7.83	14489	10.63	6033	14.48

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3095

Client ID: SSTDCCC0.4

Date Analyzed: 09/20/2025

Lab File ID: BN037832.D

Time Analyzed: 02:35

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	11907	17.223	9777	21.402	10066	23.736
UPPER LIMIT	23814	17.723	19554	21.902	20132	24.236
LOWER LIMIT	5953.5	16.723	4888.5	20.902	5033	23.236
EPA SAMPLE NO.						
01 RE104D3-20250910	10379	17.22	8825	21.40	32 *	23.74

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/08/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	MW305I-20250908	SDG No.:	Q3095
Lab Sample ID:	Q3095-01	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037747.D	1	09/15/25 10:15	09/17/25 15:47	PB169692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.43		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		80%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		105%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6430	7.84				
1146-65-2	Naphthalene-d8	17300	10.637				
15067-26-2	Acenaphthene-d10	7560	14.494				
1517-22-2	Phenanthrene-d10	13400	17.235				
1719-03-5	Chrysene-d12	10900	21.411				
1520-96-3	Perylene-d12	10400	23.747				

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\BN091725\
 Data File : BN037747.D
 Acq On : 17 Sep 2025 15:47
 Operator : RC/JU
 Sample : Q3095-01
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW305I-20250908

Quant Time: Sep 17 16:29:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

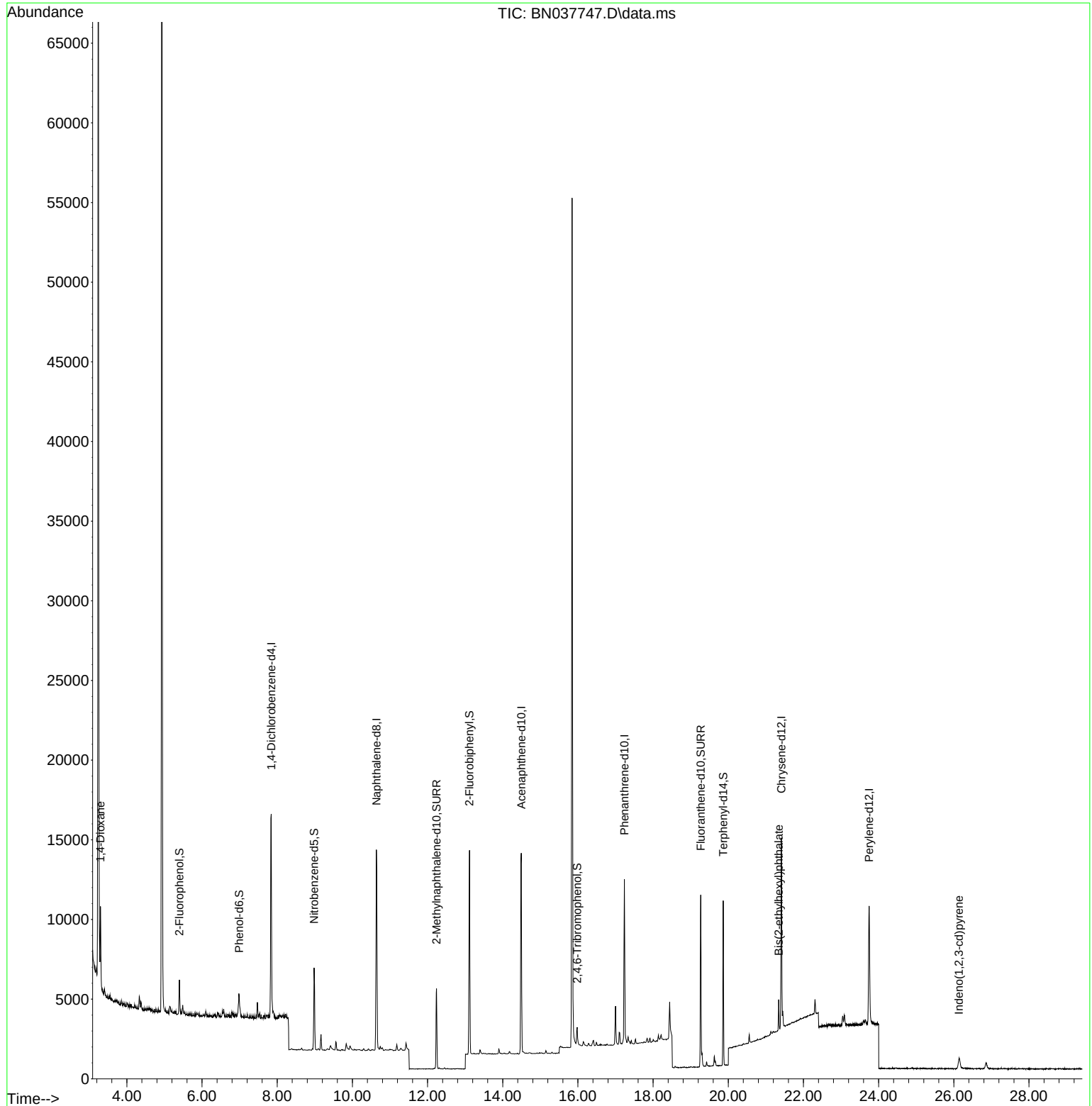
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	6426	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	17307	0.400	ng	-0.01
13) Acenaphthene-d10	14.494	164	7564	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	13404	0.400	ng	0.00
29) Chrysene-d12	21.411	240	10925	0.400	ng	# 0.00
35) Perylene-d12	23.747	264	10440	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	1544	0.105	ng	0.00
5) Phenol-d6	6.988	99	1164	0.061	ng	0.00
8) Nitrobenzene-d5	8.982	82	4046	0.320	ng	-0.01
11) 2-Methylnaphthalene-d10	12.238	152	6653	0.290	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	732	0.371	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	10498	0.332	ng	0.00
27) Fluoranthene-d10	19.266	212	11763	0.350	ng	0.00
31) Terphenyl-d14	19.866	244	9368	0.422	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	2844	0.425	ng	# 93
34) Bis(2-ethylhexyl)phtha...	21.340	149	1967	0.174	ng	# 96
36) Indeno(1,2,3-cd)pyrene	26.139	276	885	0.020	ng	# 87

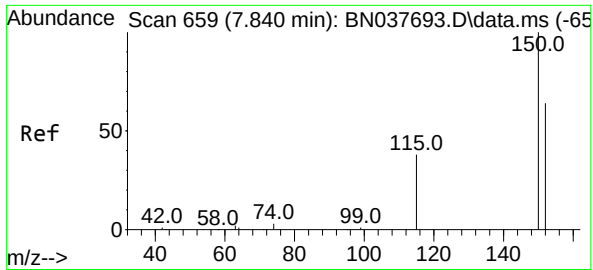
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037747.D
Acq On : 17 Sep 2025 15:47
Operator : RC/JU
Sample : Q3095-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW305I-20250908

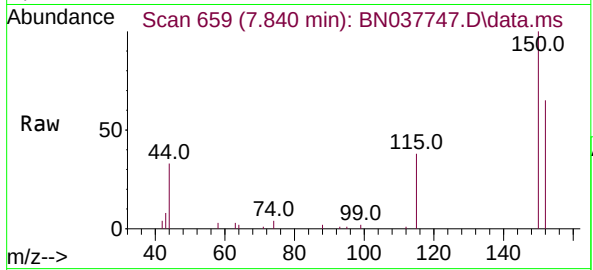
Quant Time: Sep 17 16:29:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



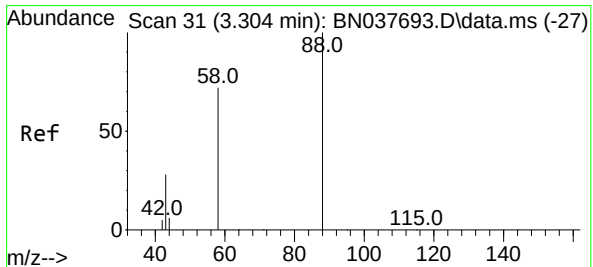
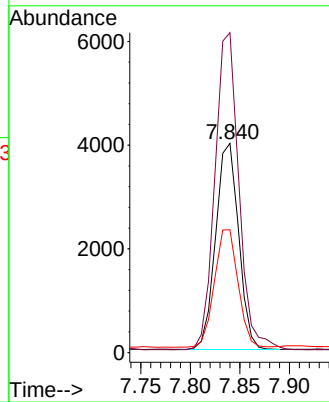
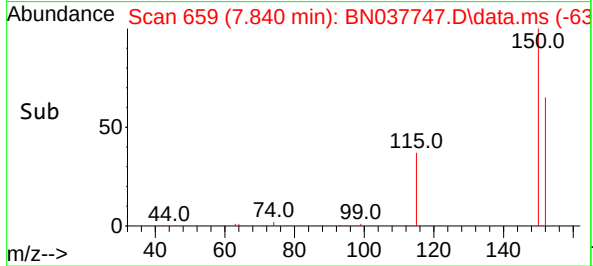


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

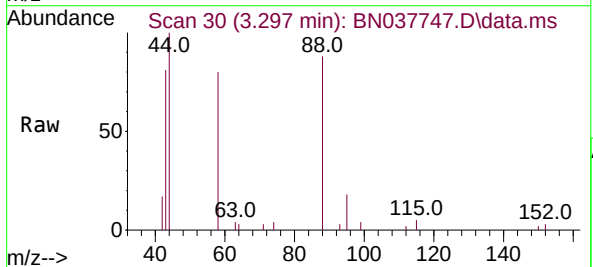
Instrument :
BNA_N
ClientSampleId :
MW305I-20250908



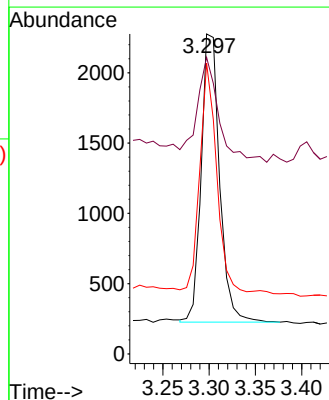
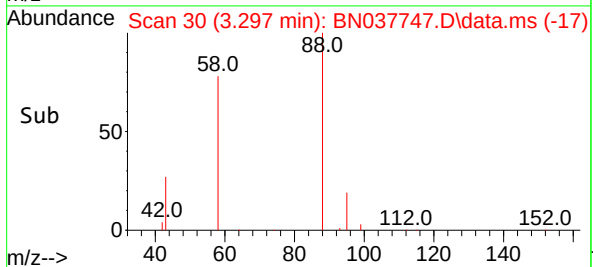
Tgt Ion:152 Resp: 6426
Ion Ratio Lower Upper
152 100
150 152.9 124.5 186.7
115 58.7 49.2 73.8

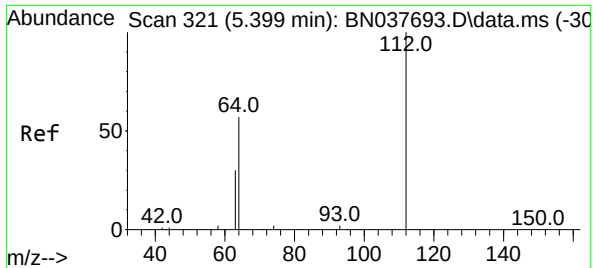


#2
1,4-Dioxane
Concen: 0.425 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47



Tgt Ion: 88 Resp: 2844
Ion Ratio Lower Upper
88 100
43 42.9 26.8 40.2#
58 74.3 61.9 92.9

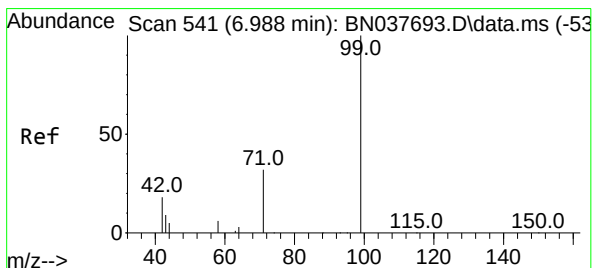
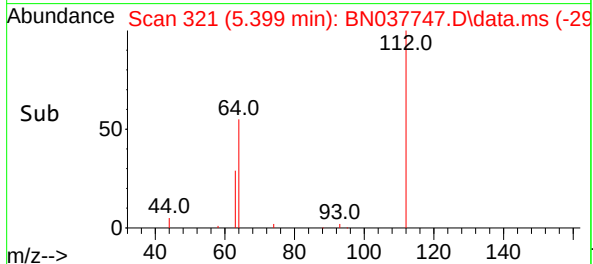
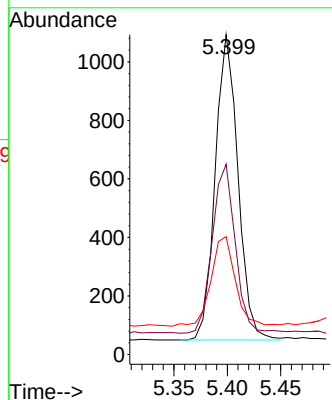
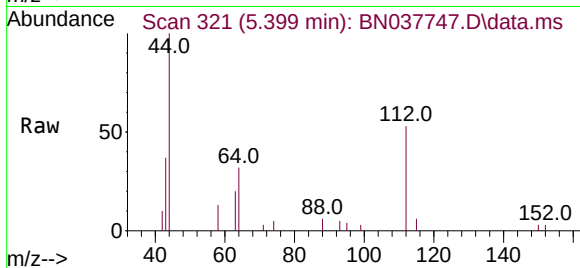




#4
2-Fluorophenol
Concen: 0.105 ng
RT: 5.399 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

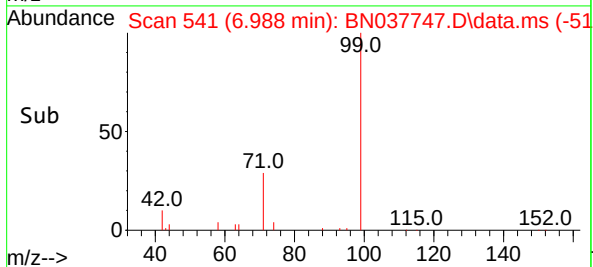
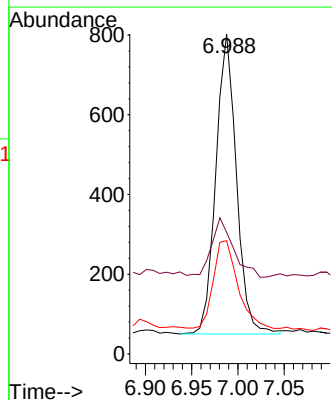
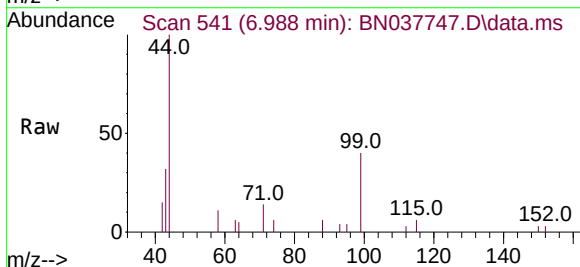
Instrument :
BNA_N
ClientSampleId :
MW305I-20250908

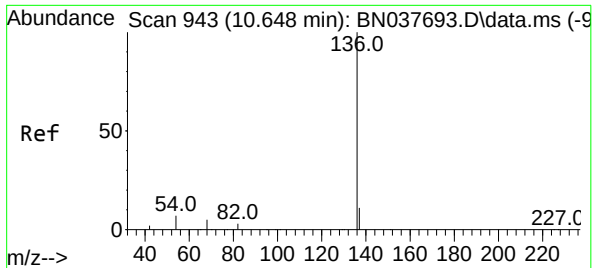
Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.2	44.9	67.3
63	31.5	24.7	37.1



#5
Phenol-d6
Concen: 0.061 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

Tgt Ion	Ratio	Lower	Upper
99	100		
42	22.3	16.6	24.8
71	34.9	26.7	40.1

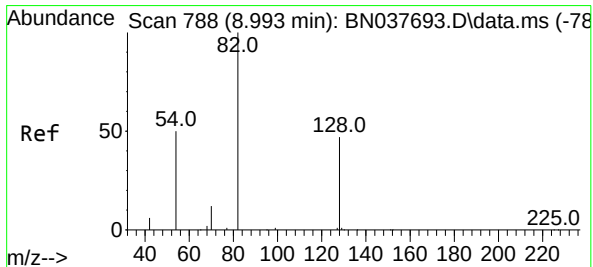
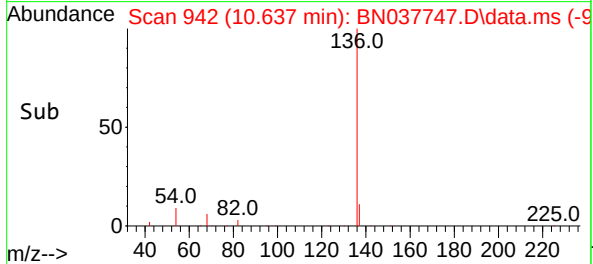
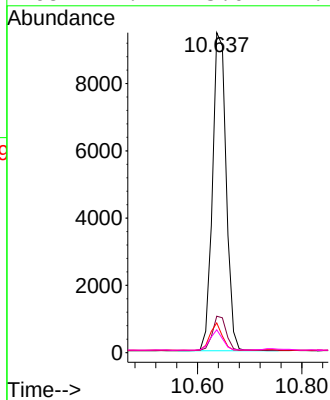
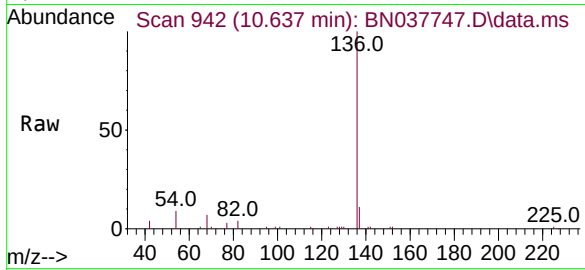




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

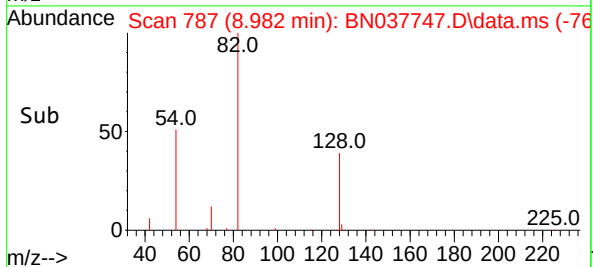
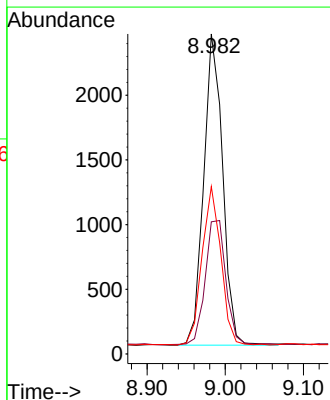
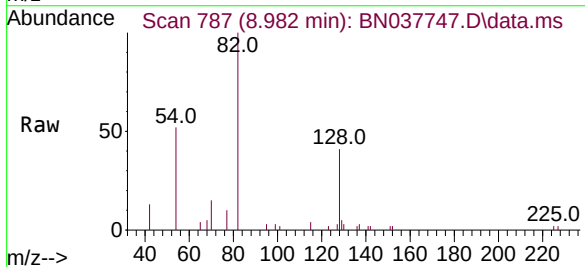
Instrument :
BNA_N
ClientSampleId :
MW305I-20250908

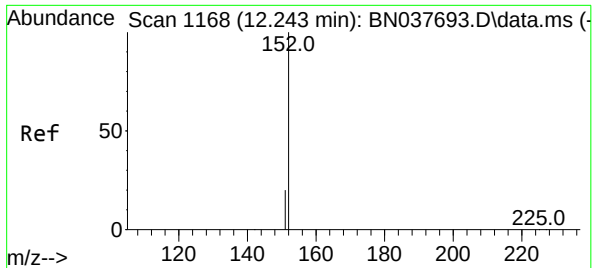
Tgt Ion:	136	Resp:	17307
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	9.3	6.3	9.5
68	7.1	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.320 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

Tgt Ion:	82	Resp:	4046
Ion	Ratio	Lower	Upper
82	100		
128	41.3	38.3	57.5
54	52.3	41.4	62.2

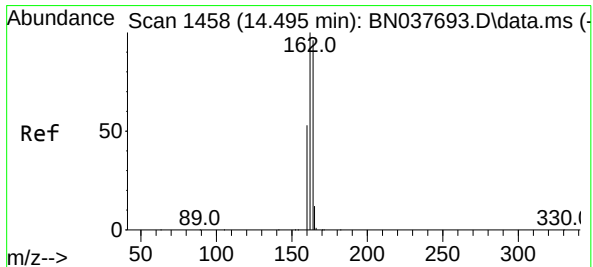
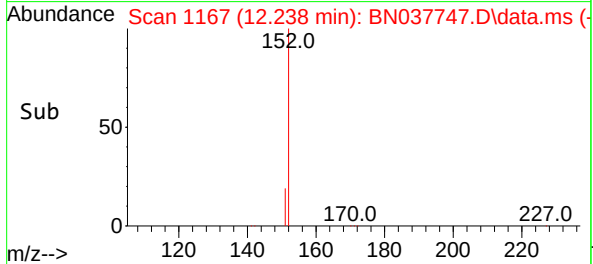
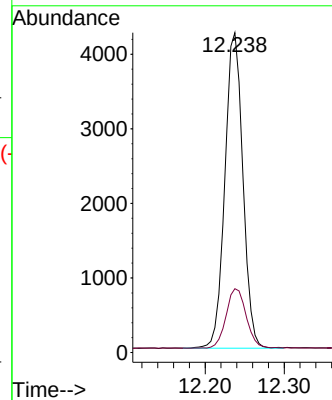
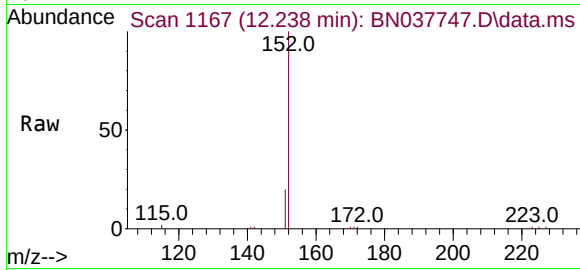




#11
2-Methylnaphthalene-d10
Concen: 0.290 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

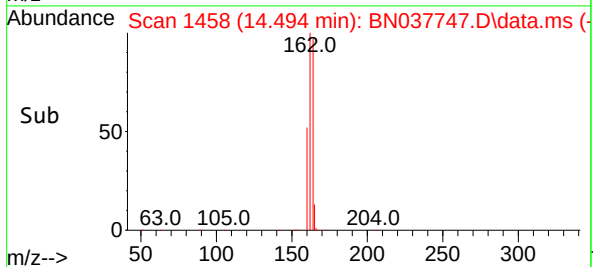
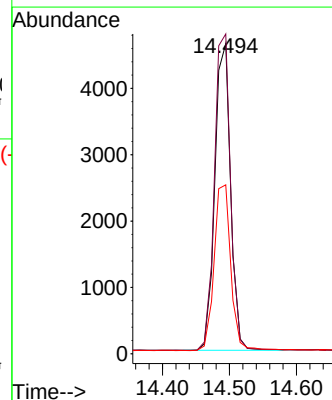
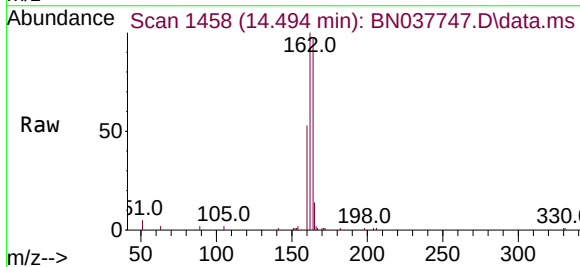
Instrument :
BNA_N
ClientSampleId :
MW305I-20250908

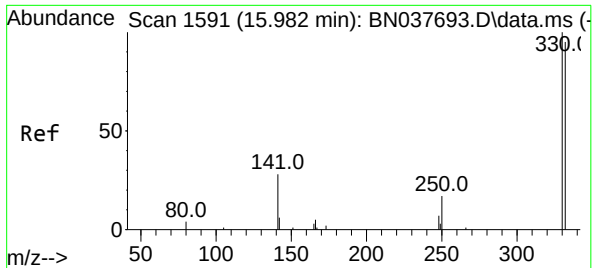
Tgt Ion:152 Resp: 6653
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

Tgt Ion:164 Resp: 7564
Ion Ratio Lower Upper
164 100
162 103.2 83.1 124.7
160 54.5 44.3 66.5



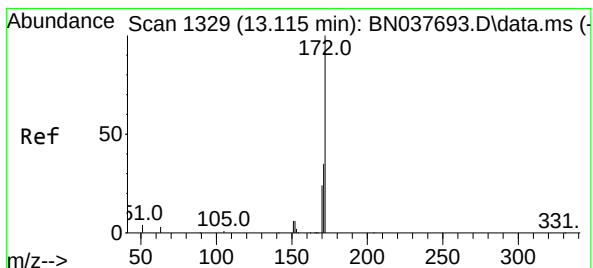
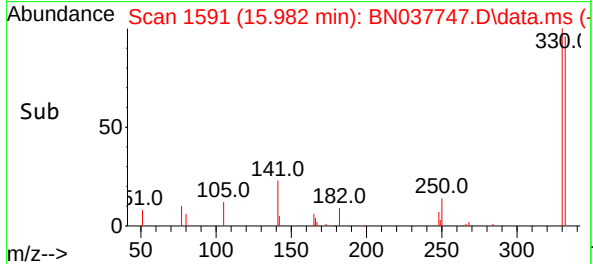
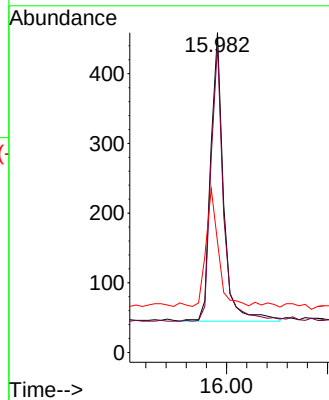
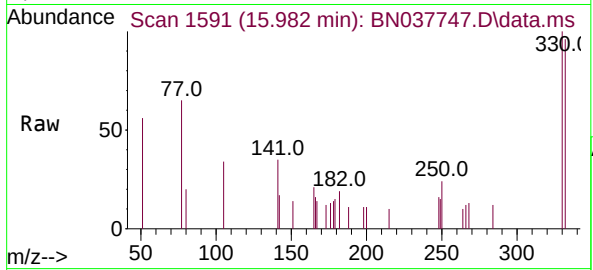


#14
2,4,6-Tribromophenol
Concen: 0.371 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

Instrument :
BNA_N
ClientSampleId :
MW305I-20250908

Tgt Ion	330	Resp	732
Ion Ratio	100		
Lower	75.3		
Upper	112.9		

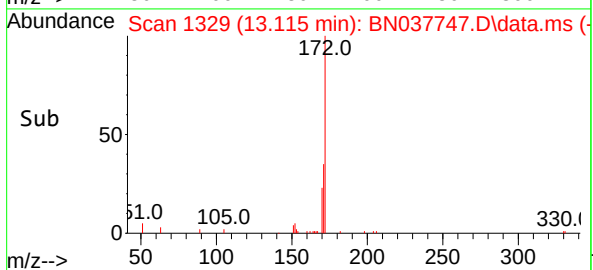
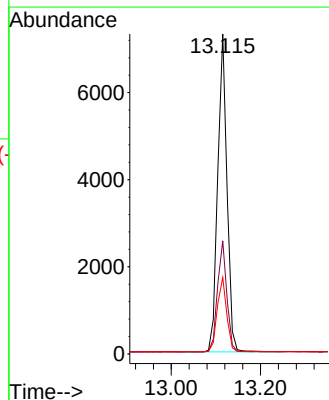
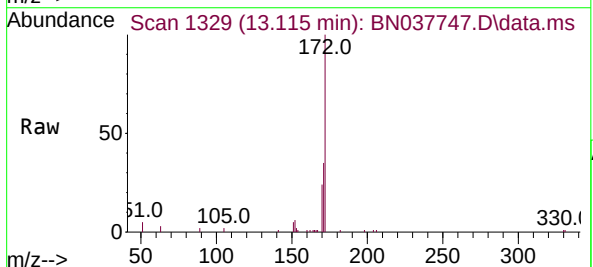
Ion	332	Ratio	Lower	Upper
332	93.6		75.3	112.9
141	38.9		35.0	52.4

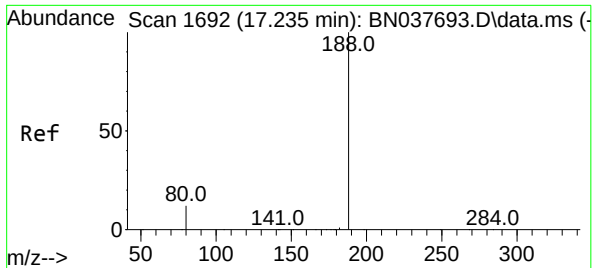


#15
2-Fluorobiphenyl
Concen: 0.332 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

Tgt Ion	172	Resp	10498
Ion Ratio	100		
Lower	28.6		
Upper	43.0		

Ion	171	Ratio	Lower	Upper
171	35.3		28.6	43.0
170	23.9		19.8	29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037747.D

Acq: 17 Sep 2025 15:47

Instrument :

BNA_N

ClientSampleId :

MW305I-20250908

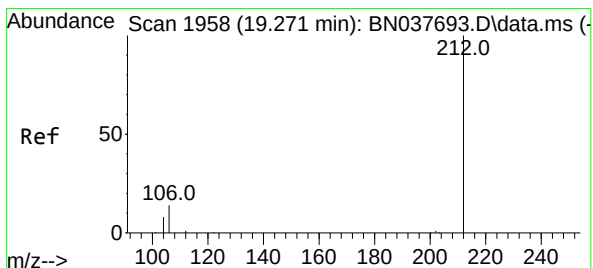
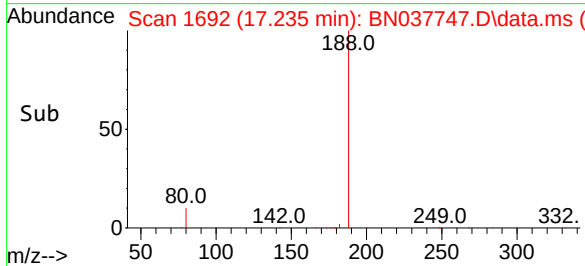
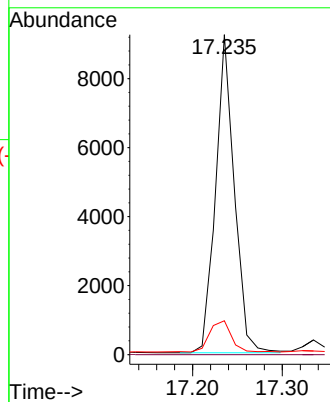
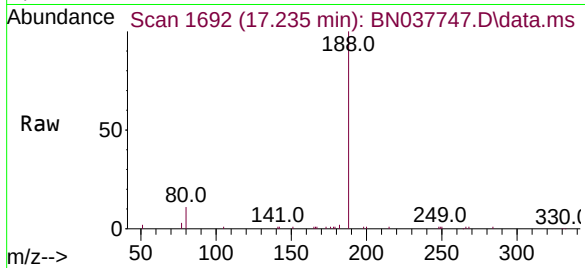
Tgt Ion:188 Resp: 13404

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.6 10.6 15.8



#27

Fluoranthene-d10

Concen: 0.350 ng

RT: 19.266 min Scan# 1957

Delta R.T. -0.005 min

Lab File: BN037747.D

Acq: 17 Sep 2025 15:47

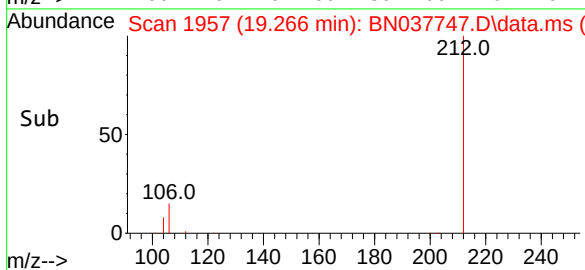
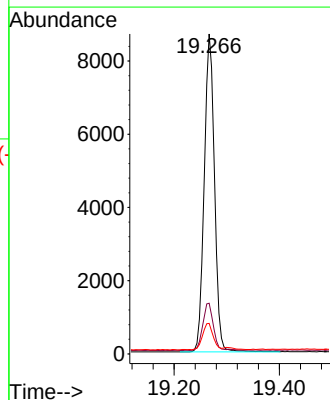
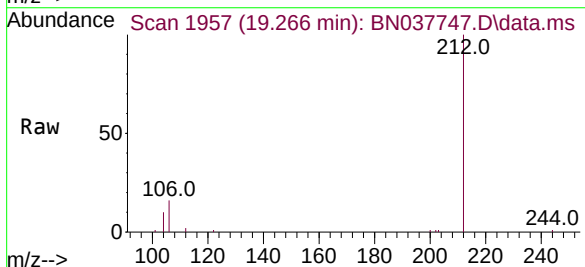
Tgt Ion:212 Resp: 11763

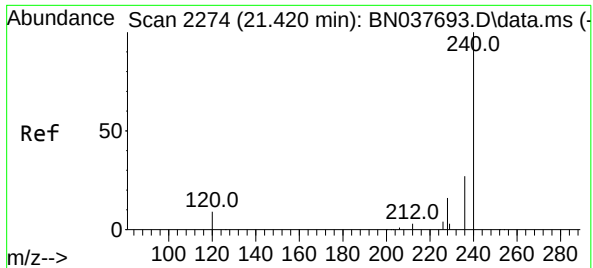
Ion Ratio Lower Upper

212 100

106 15.2 12.2 18.2

104 8.5 6.9 10.3

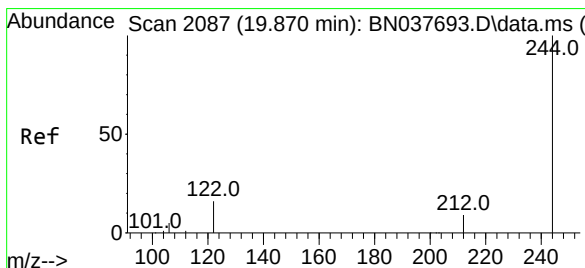
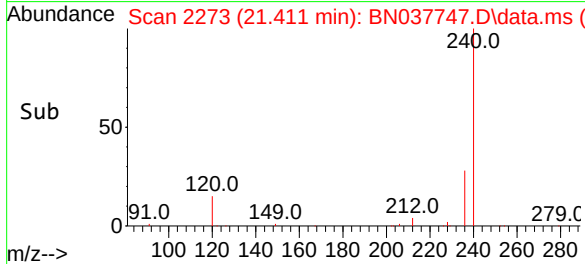
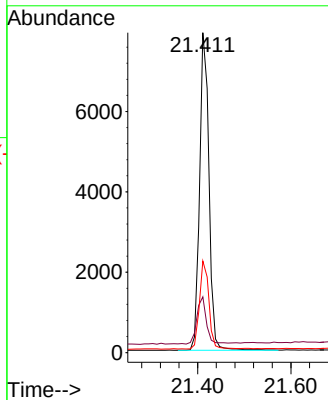
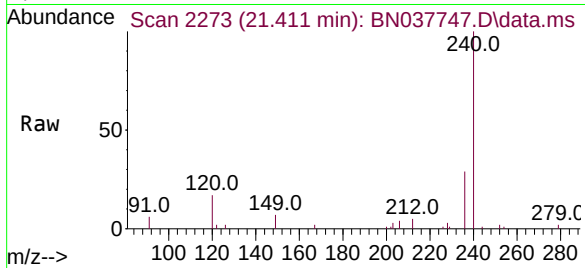




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

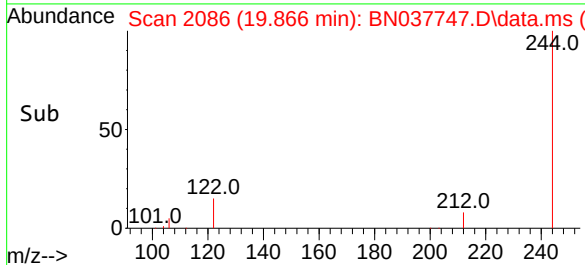
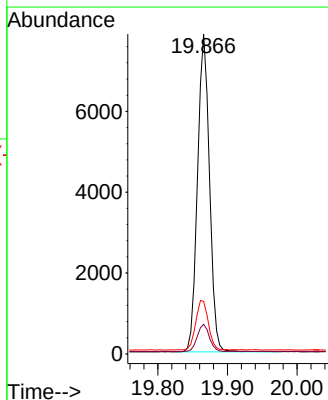
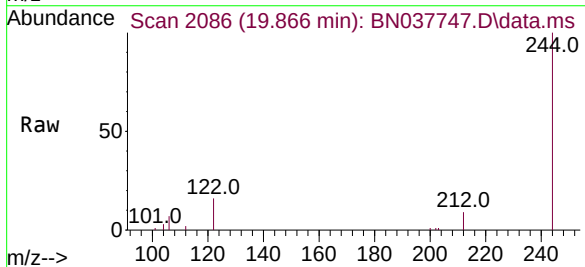
Instrument :
BNA_N
ClientSampleId :
MW305I-20250908

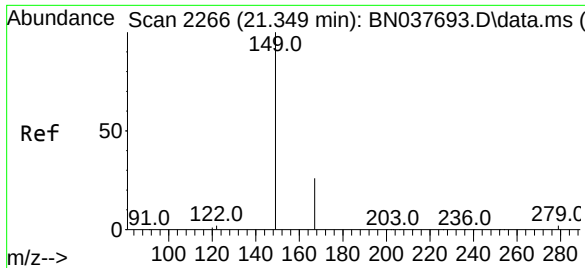
Tgt Ion	Ratio	Lower	Upper
240	100		
120	17.4	9.2	13.8#
236	28.6	22.6	33.8



#31
Terphenyl-d14
Concen: 0.422 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.2	7.5	11.3
122	16.4	13.2	19.8

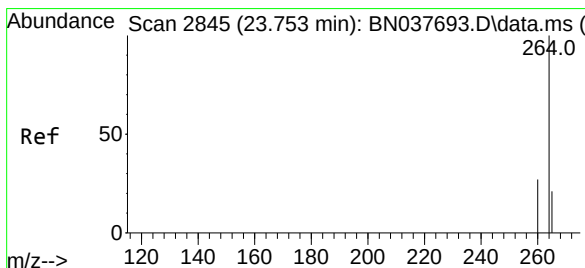
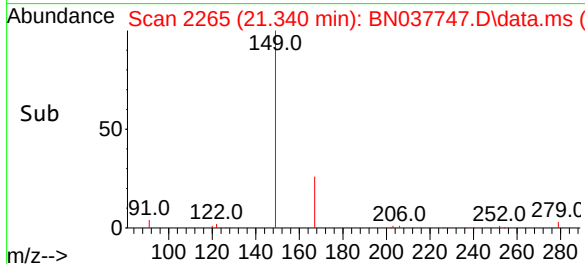
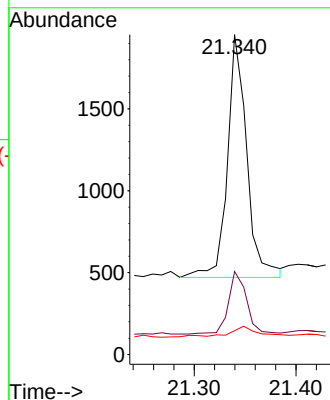
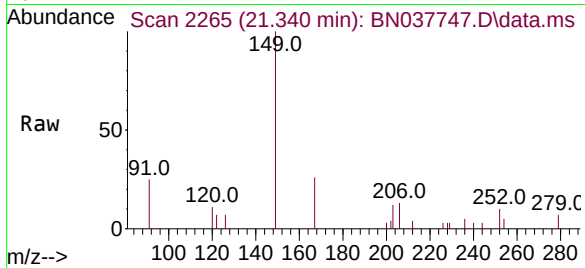




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.174 ng
RT: 21.340 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

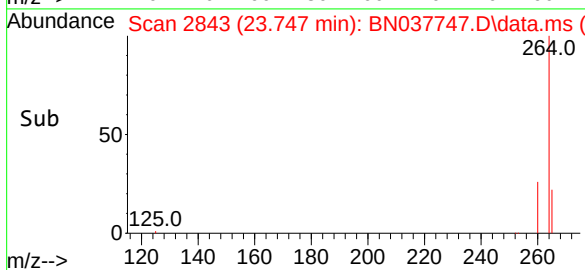
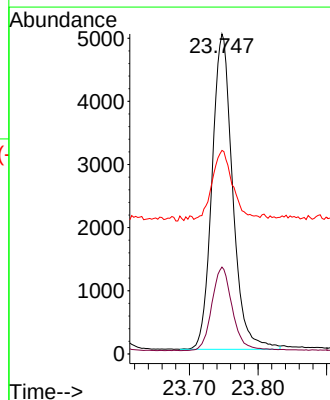
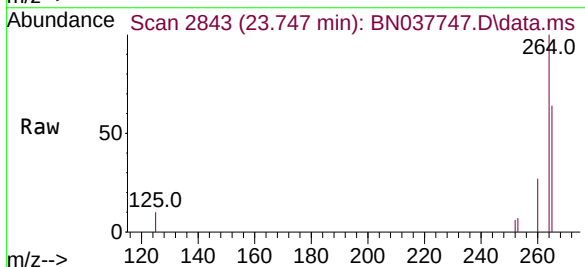
Instrument :
BNA_N
ClientSampleId :
MW305I-20250908

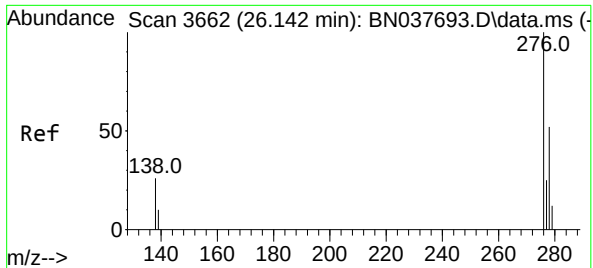
Tgt Ion:149 Resp: 1967
Ion Ratio Lower Upper
149 100
167 24.3 20.8 31.2
279 6.1 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.747 min Scan# 2843
Delta R.T. -0.006 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

Tgt Ion:264 Resp: 10440
Ion Ratio Lower Upper
264 100
260 27.1 21.8 32.8
265 63.6 39.4 59.2#





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.020 ng

RT: 26.139 min Scan# 30

Delta R.T. -0.003 min

Lab File: BN037747.D

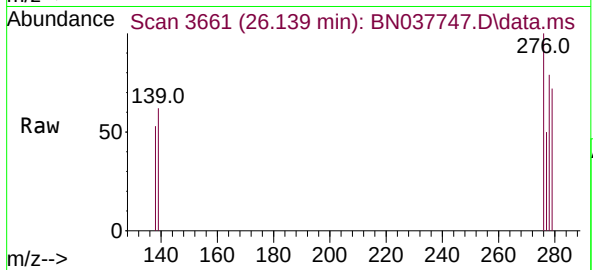
Acq: 17 Sep 2025 15:47

Instrument :

BNA_N

ClientSampleId :

MW305I-20250908



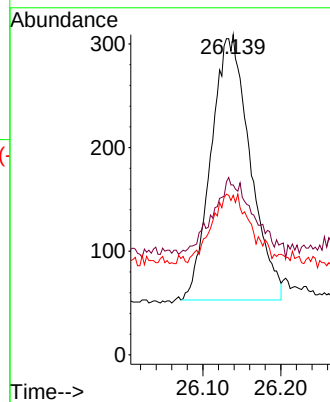
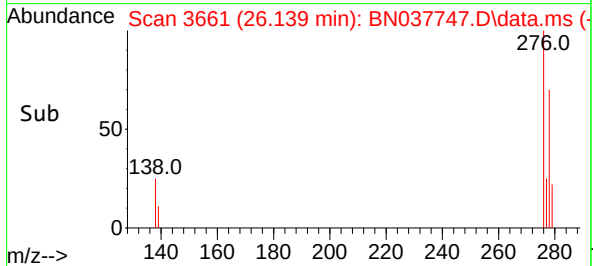
Tgt Ion:276 Resp: 885

Ion Ratio Lower Upper

276 100

138 28.8 21.9 32.9

277 13.2 20.1 30.1#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/08/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	MW179D-20250908	SDG No.:	Q3095
Lab Sample ID:	Q3095-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037748.D	1	09/15/25 10:15	09/17/25 16:24	PB169692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.16	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		80%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		91%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		105%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6620	7.84				
1146-65-2	Naphthalene-d8	18100	10.637				
15067-26-2	Acenaphthene-d10	8080	14.494				
1517-22-2	Phenanthrene-d10	13900	17.235				
1719-03-5	Chrysene-d12	11000	21.411				
1520-96-3	Perylene-d12	10700	23.75				

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\BN091725\
 Data File : BN037748.D
 Acq On : 17 Sep 2025 16:24
 Operator : RC/JU
 Sample : Q3095-02
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW179D-20250908

Quant Time: Sep 17 16:56:14 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

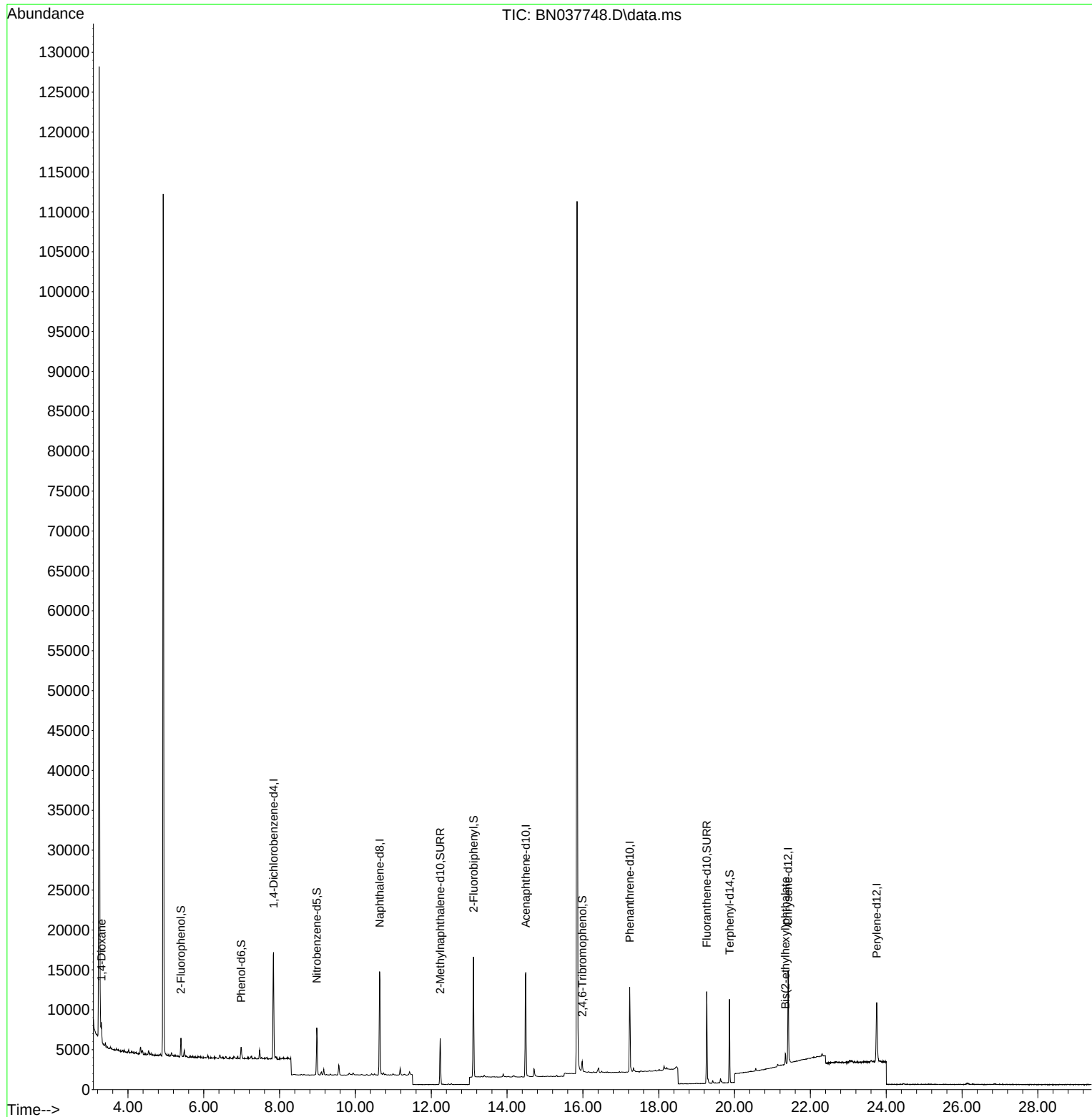
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	6623	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	18145	0.400	ng	-0.01
13) Acenaphthene-d10	14.494	164	8084	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	13859	0.400	ng	0.00
29) Chrysene-d12	21.411	240	11041	0.400	ng	# 0.00
35) Perylene-d12	23.750	264	10735	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	1851	0.122	ng	0.00
5) Phenol-d6	6.988	99	1355	0.069	ng	0.00
8) Nitrobenzene-d5	8.982	82	4579	0.345	ng	-0.01
11) 2-Methylnaphthalene-d10	12.238	152	7689	0.320	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	820	0.389	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	12379	0.366	ng	0.00
27) Fluoranthene-d10	19.266	212	12259	0.352	ng	0.00
31) Terphenyl-d14	19.866	244	9456	0.422	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.304	88	1113	0.161	ng	# 89
34) Bis(2-ethylhexyl)phtha...	21.339	149	1495	0.131	ng	# 97

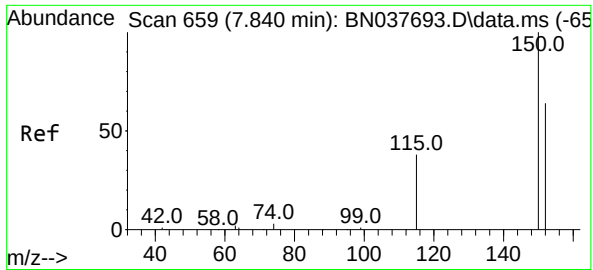
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037748.D
Acq On : 17 Sep 2025 16:24
Operator : RC/JU
Sample : Q3095-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW179D-20250908

Quant Time: Sep 17 16:56:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

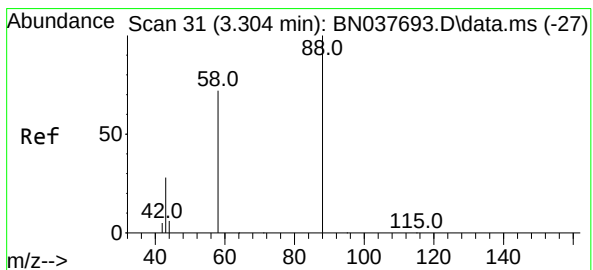
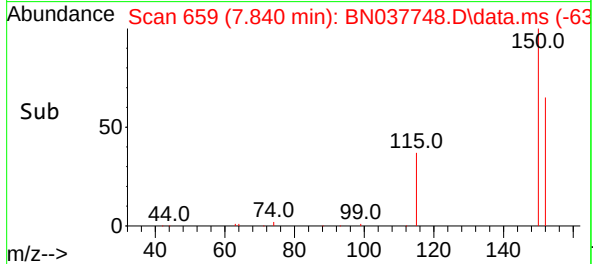
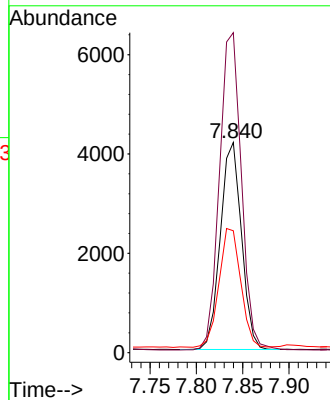
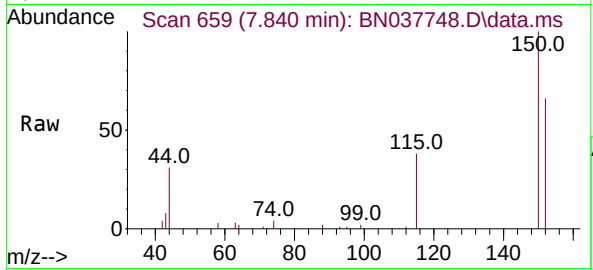




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

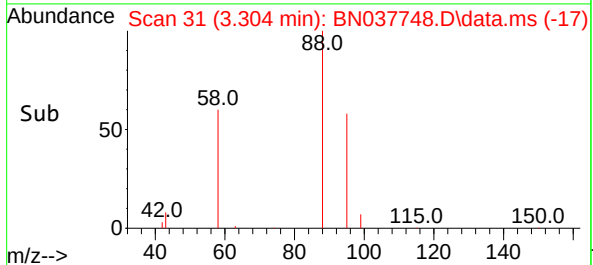
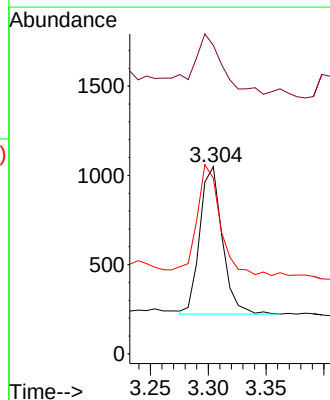
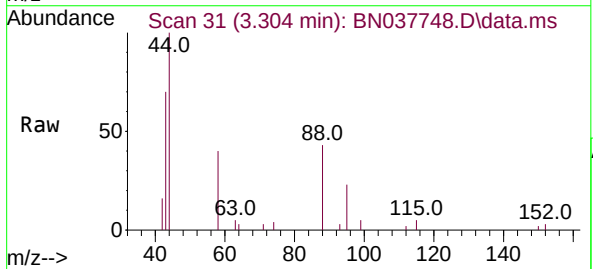
Instrument :
BNA_N
ClientSampleId :
MW179D-20250908

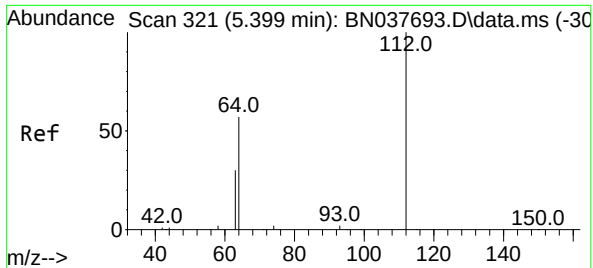
Tgt Ion:152 Resp: 6623
Ion Ratio Lower Upper
152 100
150 152.3 124.5 186.7
115 58.0 49.2 73.8



#2
1,4-Dioxane
Concen: 0.161 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

Tgt Ion: 88 Resp: 1113
Ion Ratio Lower Upper
88 100
43 52.4 26.8 40.2#
58 78.7 61.9 92.9

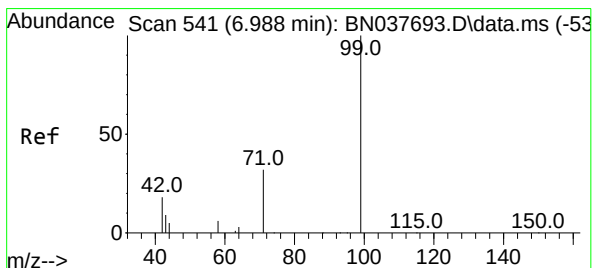
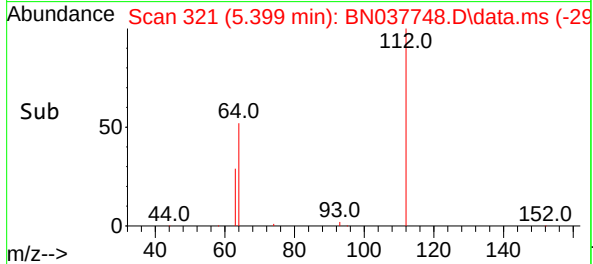
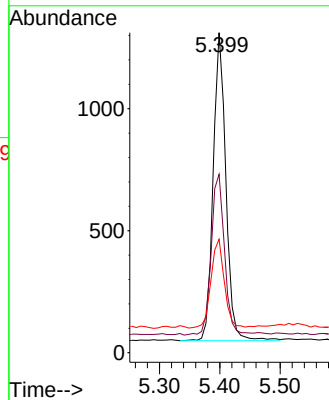
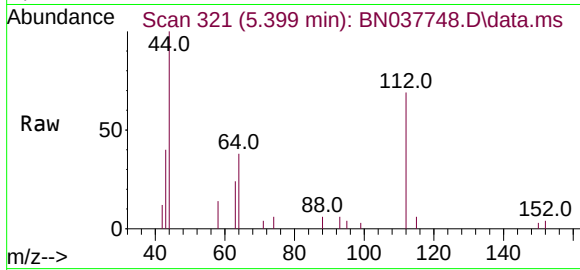




#4
2-Fluorophenol
Concen: 0.122 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

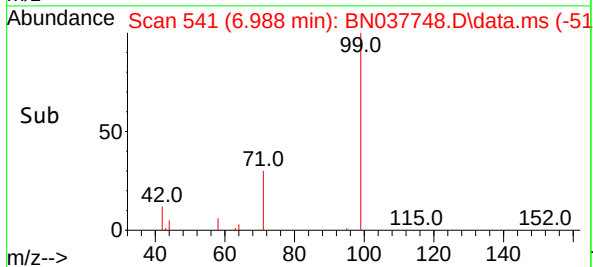
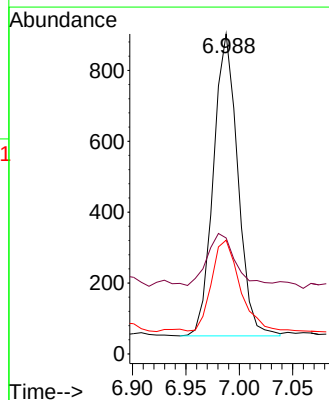
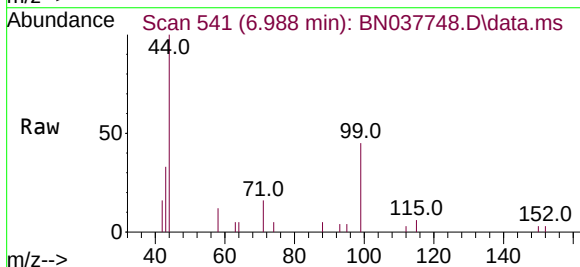
Instrument :
BNA_N
ClientSampleId :
MW179D-20250908

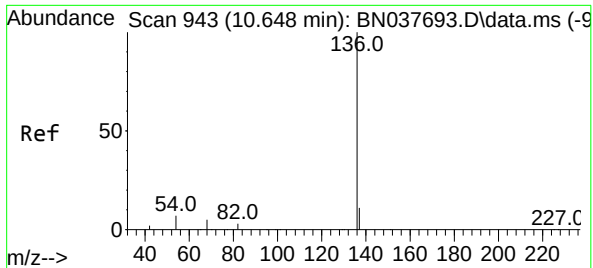
Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.7	44.9	67.3
63	30.0	24.7	37.1



#5
Phenol-d6
Concen: 0.069 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.7	16.6	24.8
71	36.5	26.7	40.1

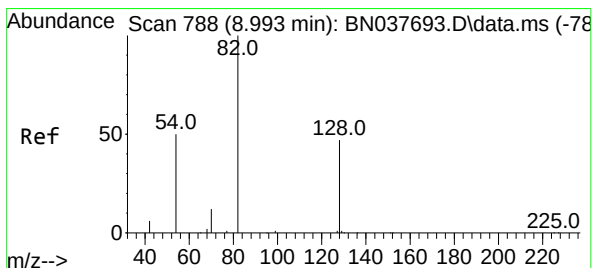
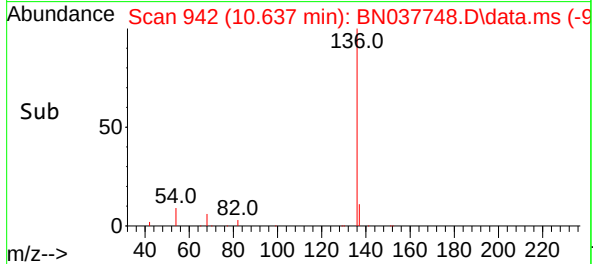
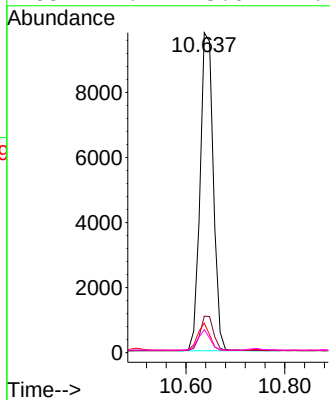
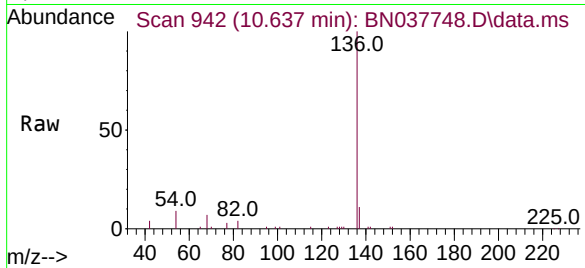




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

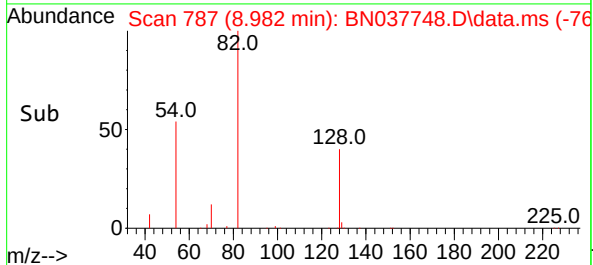
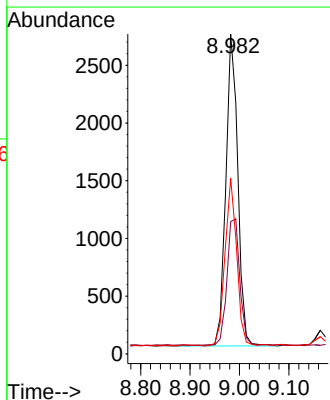
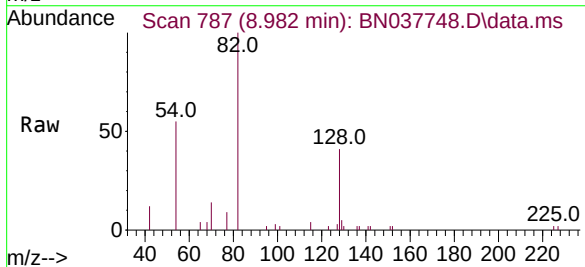
Instrument :
BNA_N
ClientSampleId :
MW179D-20250908

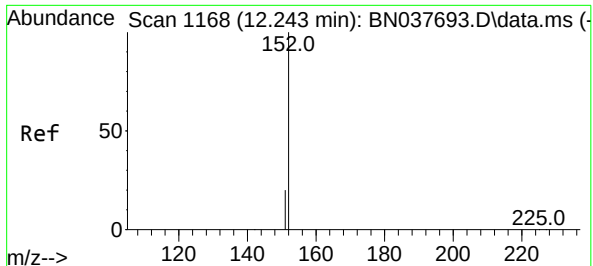
Tgt Ion:	136	Resp:	18145
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	9.2	6.3	9.5
68	7.2	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.345 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

Tgt Ion:	82	Resp:	4579
Ion	Ratio	Lower	Upper
82	100		
128	41.3	38.3	57.5
54	54.9	41.4	62.2

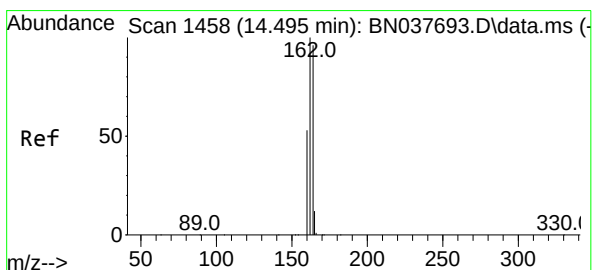
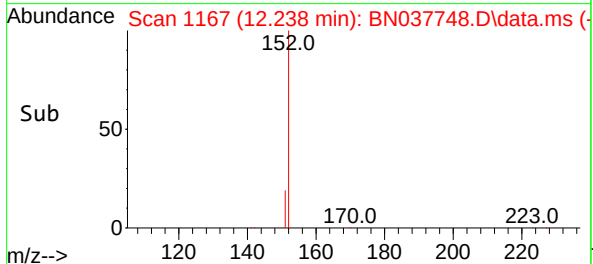
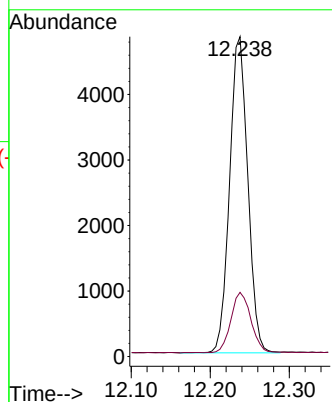
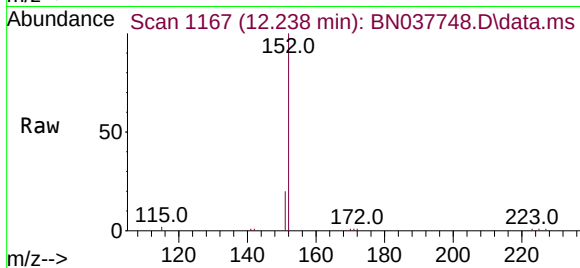




#11
2-Methylnaphthalene-d10
Concen: 0.320 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

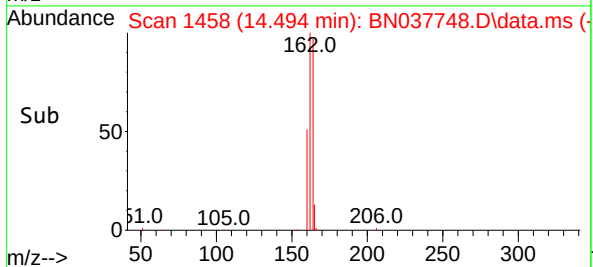
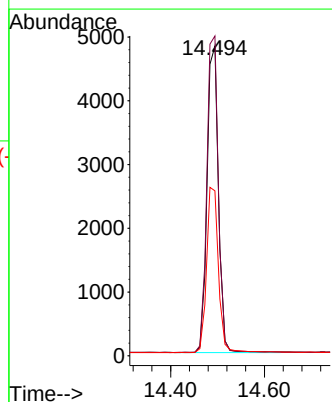
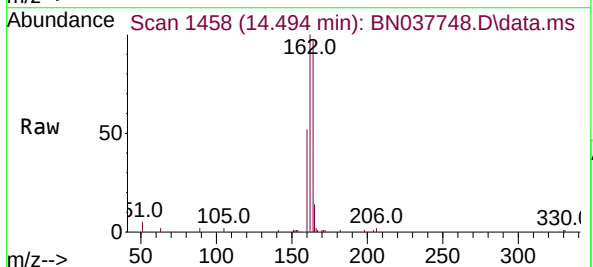
Instrument :
BNA_N
ClientSampleId :
MW179D-20250908

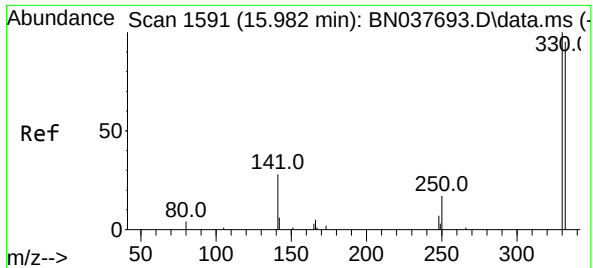
Tgt Ion:152 Resp: 7689
Ion Ratio Lower Upper
152 100
151 21.1 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

Tgt Ion:164 Resp: 8084
Ion Ratio Lower Upper
164 100
162 103.3 83.1 124.7
160 53.3 44.3 66.5



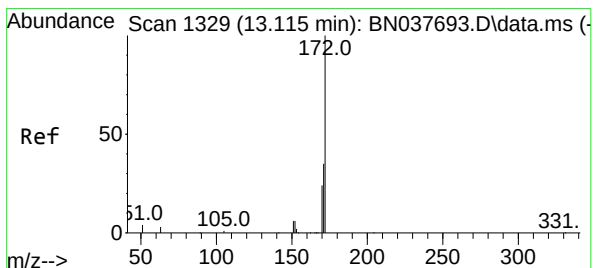
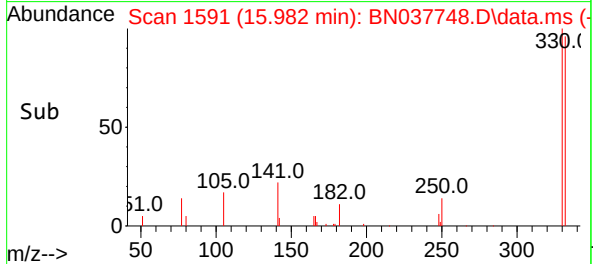
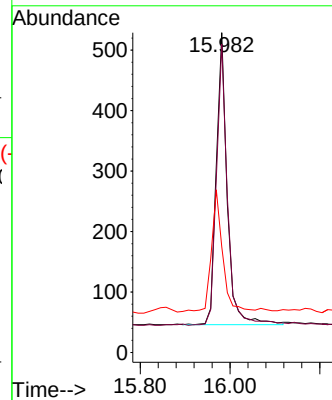
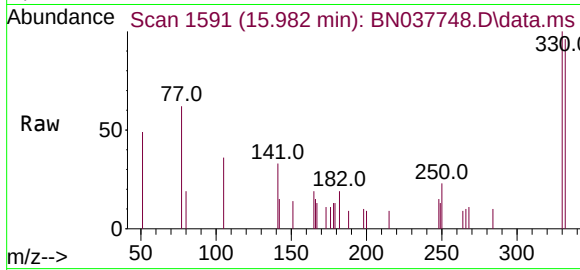


#14
2,4,6-Tribromophenol
Concen: 0.389 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

Instrument :
BNA_N
ClientSampleId :
MW179D-20250908

Tgt Ion	330	Resp	820
Ion Ratio	100		
Lower	75.3		
Upper	112.9		

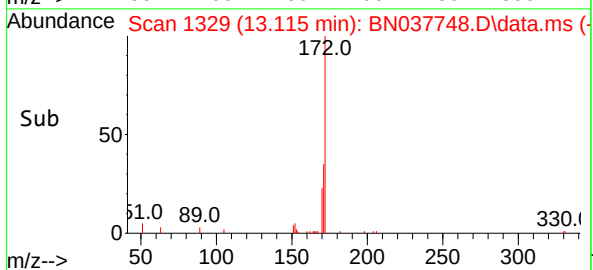
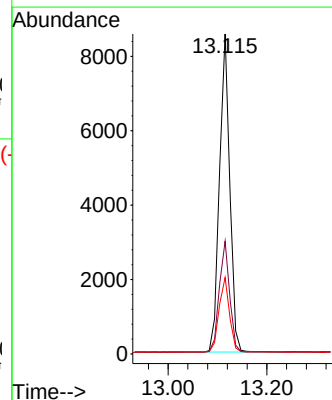
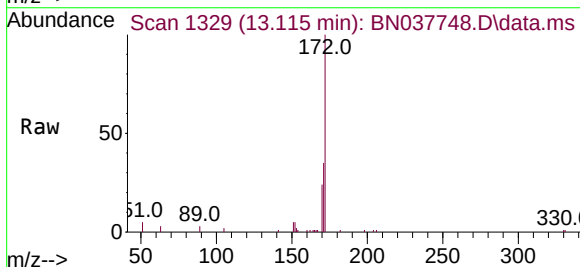
Ion	332	141
Ratio	98.2	42.6
Lower	75.3	35.0
Upper	112.9	52.4

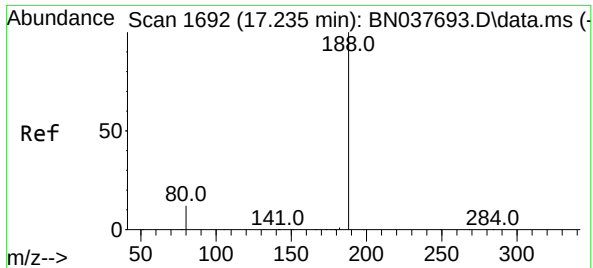


#15
2-Fluorobiphenyl
Concen: 0.366 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

Tgt Ion	172	Resp	12379
Ion Ratio	100		
Lower	28.6		
Upper	43.0		

Ion	171	170
Ratio	35.2	23.9
Lower	28.6	19.8
Upper	43.0	29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037748.D

Acq: 17 Sep 2025 16:24

Instrument :

BNA_N

ClientSampleId :

MW179D-20250908

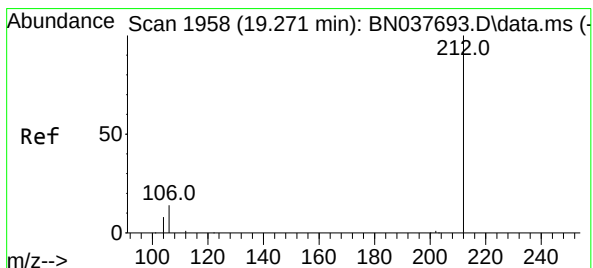
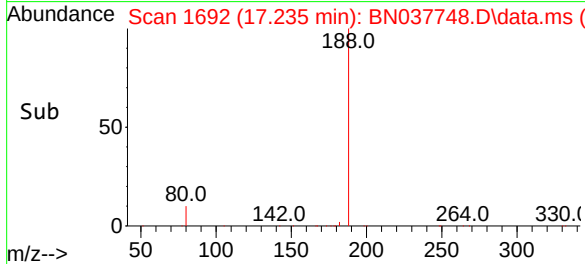
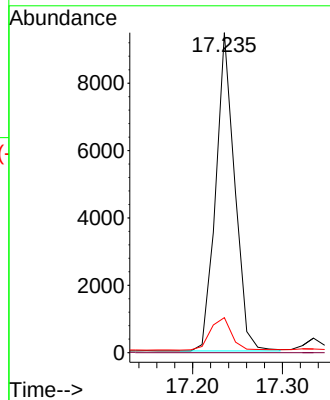
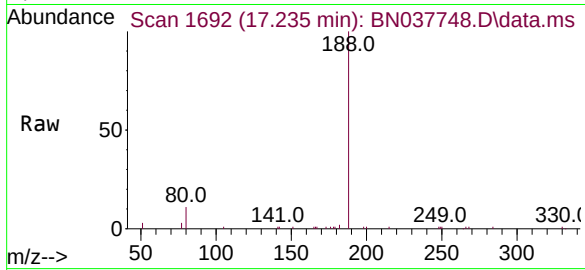
Tgt Ion:188 Resp: 13859

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.9 10.6 15.8



#27

Fluoranthene-d10

Concen: 0.352 ng

RT: 19.266 min Scan# 1957

Delta R.T. -0.005 min

Lab File: BN037748.D

Acq: 17 Sep 2025 16:24

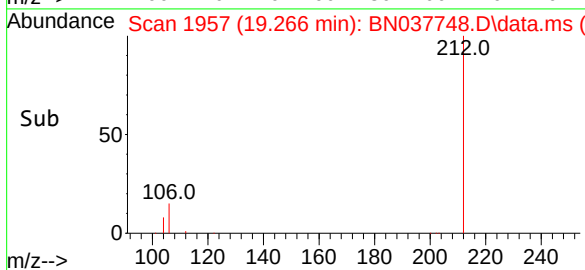
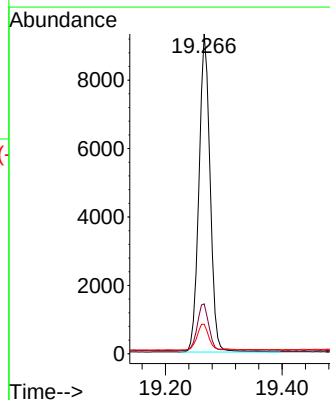
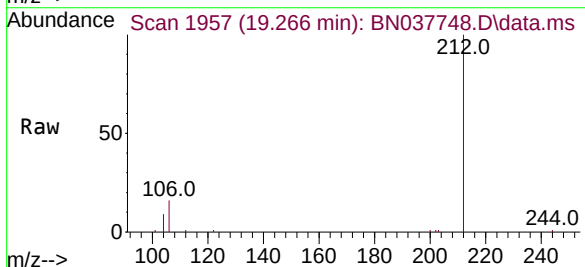
Tgt Ion:212 Resp: 12259

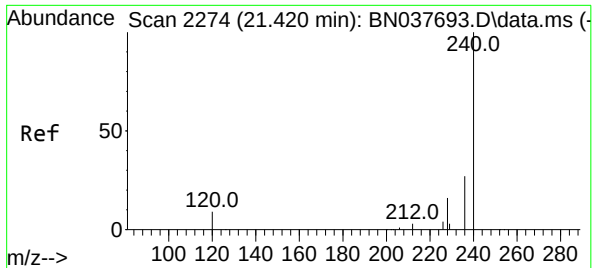
Ion Ratio Lower Upper

212 100

106 15.5 12.2 18.2

104 8.5 6.9 10.3

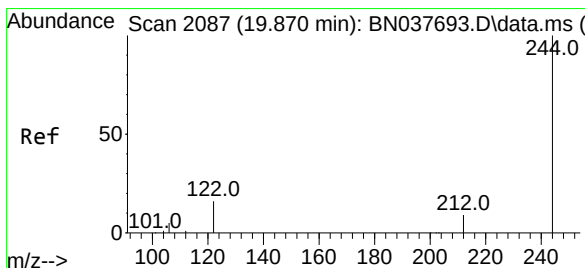
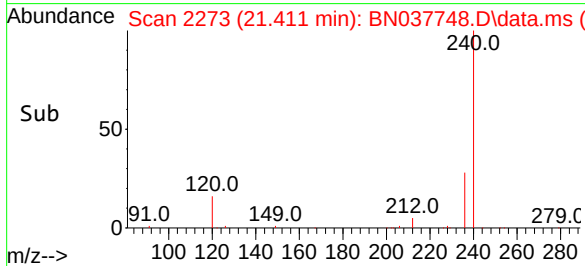
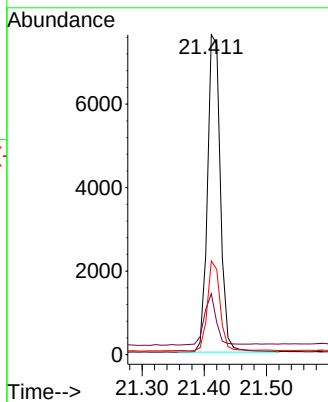
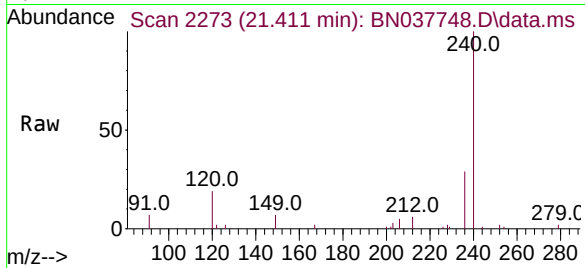




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

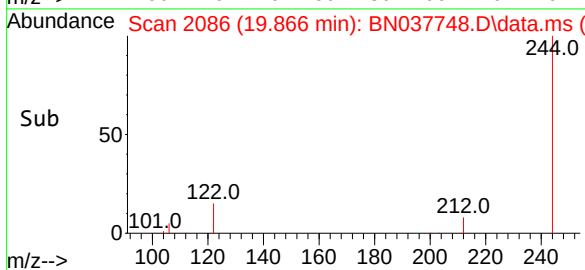
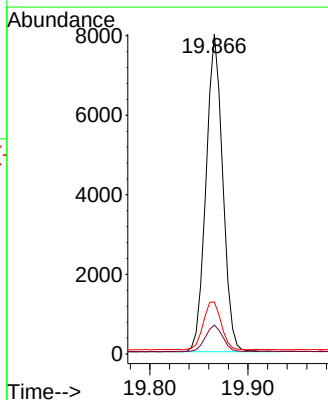
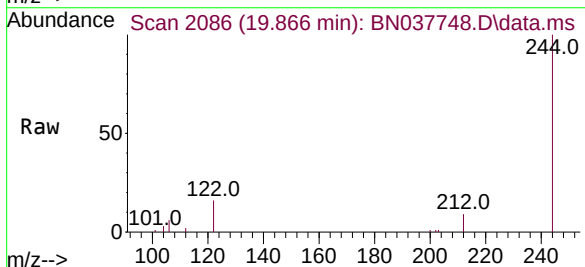
Instrument :
BNA_N
ClientSampleId :
MW179D-20250908

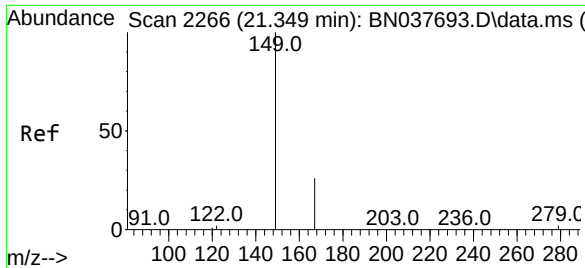
Tgt Ion:	240	Resp:	11041
Ion Ratio	Lower	Upper	
240	100		
120	19.0	9.2	13.8#
236	29.3	22.6	33.8



#31
Terphenyl-d14
Concen: 0.422 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

Tgt Ion:	244	Resp:	9456
Ion Ratio	Lower	Upper	
244	100		
212	9.0	7.5	11.3
122	16.2	13.2	19.8

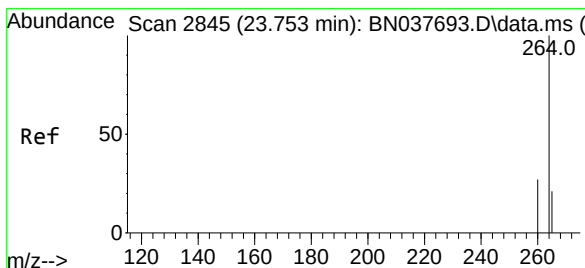
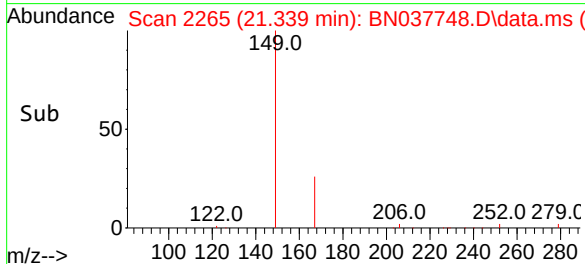
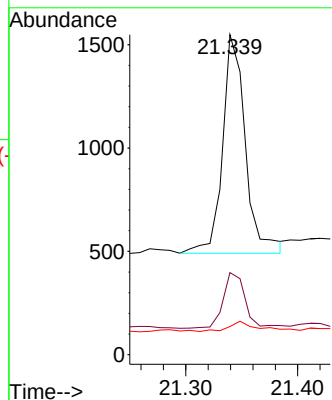
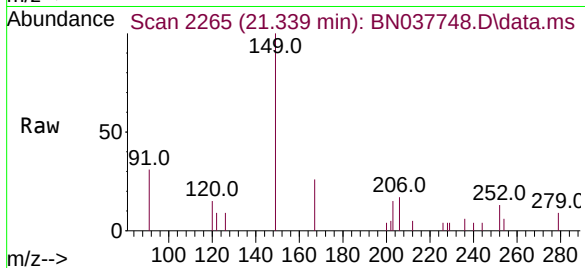




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.131 ng
RT: 21.339 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

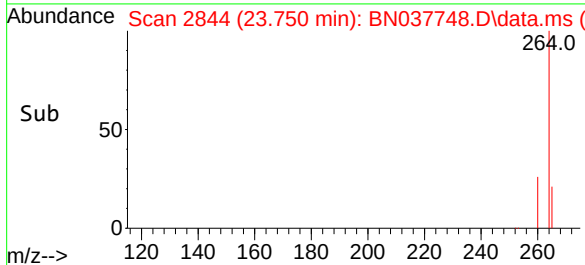
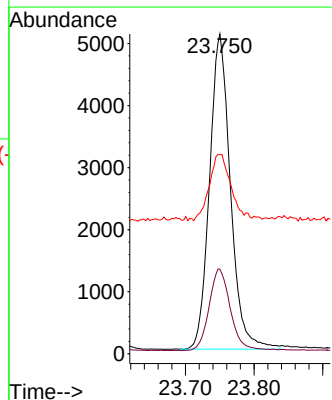
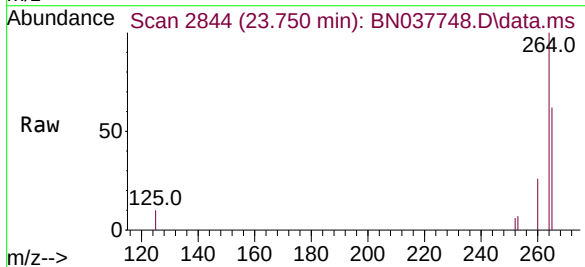
Instrument :
BNA_N
ClientSampleId :
MW179D-20250908

Tgt Ion:149 Resp: 1495
Ion Ratio Lower Upper
149 100
167 24.7 20.8 31.2
279 6.2 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.750 min Scan# 2844
Delta R.T. -0.003 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

Tgt Ion:264 Resp: 10735
Ion Ratio Lower Upper
264 100
260 26.5 21.8 32.8
265 62.2 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/08/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	MW201D-20250908	SDG No.:	Q3095
Lab Sample ID:	Q3095-03	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
BN037749.D	1	09/15/25 10:15	09/17/25 17:00	PB169692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.90	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		74%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		98%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6460	7.84				
1146-65-2	Naphthalene-d8	17400	10.637				
15067-26-2	Acenaphthene-d10	7810	14.495				
1517-22-2	Phenanthrene-d10	14100	17.235				
1719-03-5	Chrysene-d12	12200	21.411				
1520-96-3	Perylene-d12	12000	23.747				

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\BN091725\
 Data File : BN037749.D
 Acq On : 17 Sep 2025 17:00
 Operator : RC/JU
 Sample : Q3095-03
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW201D-20250908

Quant Time: Sep 17 17:28:08 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

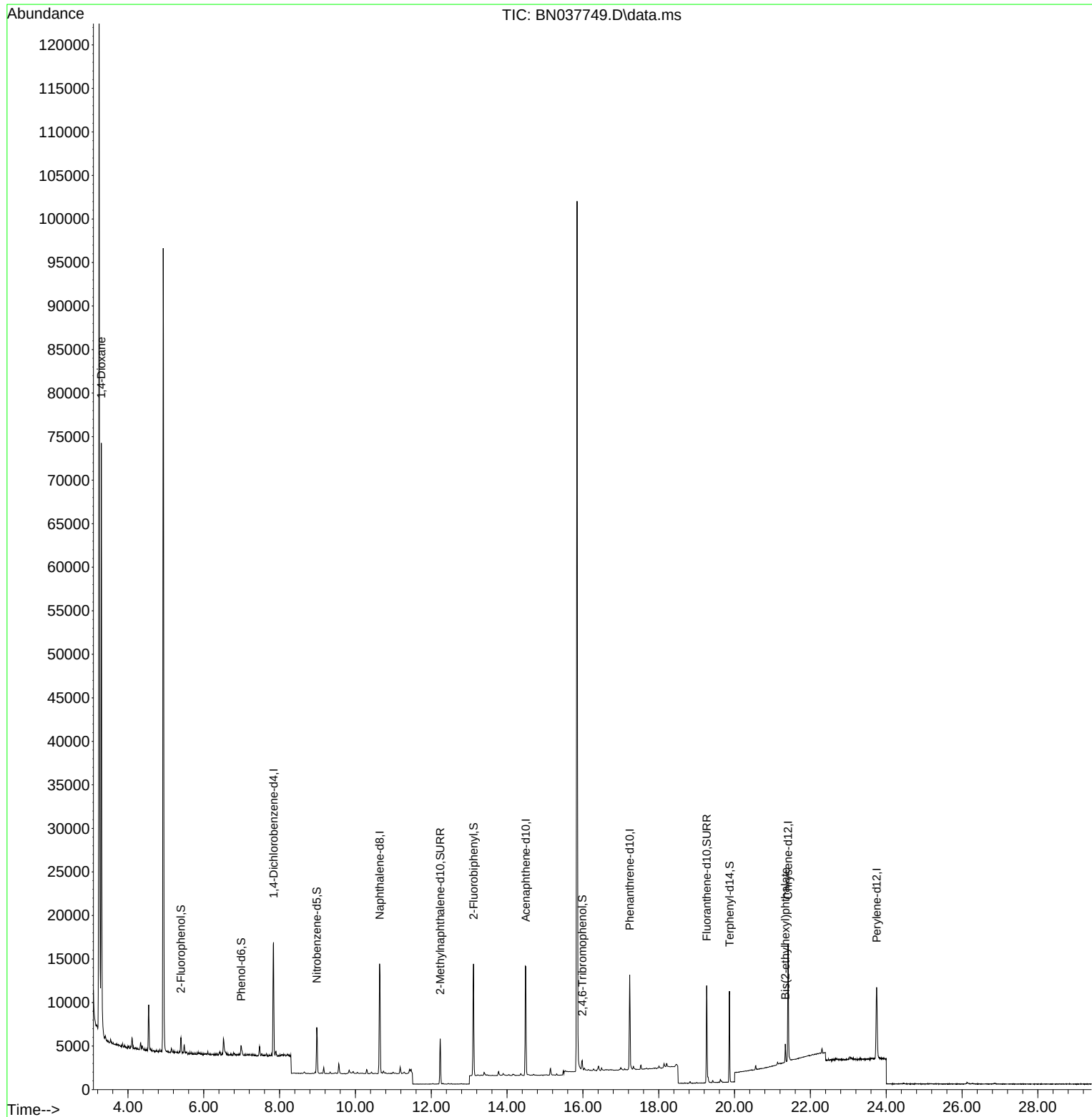
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	6464	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	17423	0.400	ng	-0.01
13) Acenaphthene-d10	14.495	164	7814	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	14079	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	12160	0.400	ng	# 0.00
35) Perylene-d12	23.747	264	12015	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	1448	0.098	ng	0.00
5) Phenol-d6	6.988	99	1049	0.055	ng	0.00
8) Nitrobenzene-d5	8.982	82	4184	0.328	ng	-0.01
11) 2-Methylnaphthalene-d10	12.238	152	6835	0.296	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	696	0.342	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	10870	0.333	ng	0.00
27) Fluoranthene-d10	19.267	212	12815	0.363	ng	0.00
31) Terphenyl-d14	19.866	244	9711	0.393	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	39911	5.928	ng	93
34) Bis(2-ethylhexyl)phtha...	21.340	149	1977	0.157	ng	99

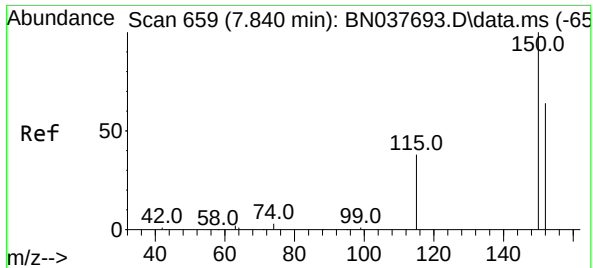
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037749.D
Acq On : 17 Sep 2025 17:00
Operator : RC/JU
Sample : Q3095-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW201D-20250908

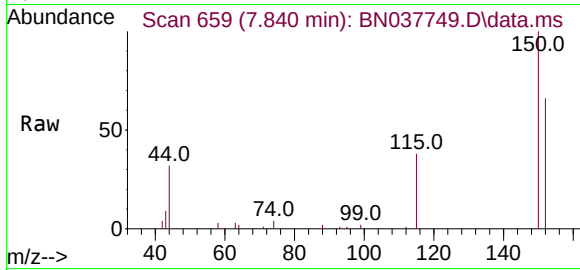
Quant Time: Sep 17 17:28:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



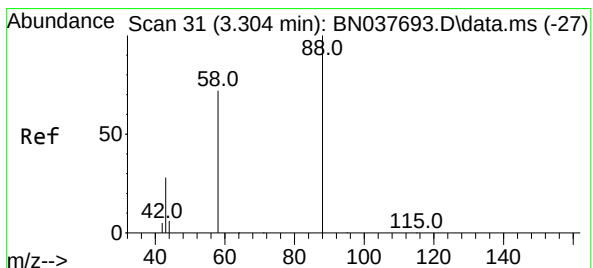
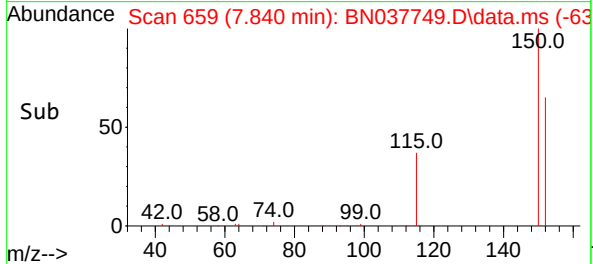
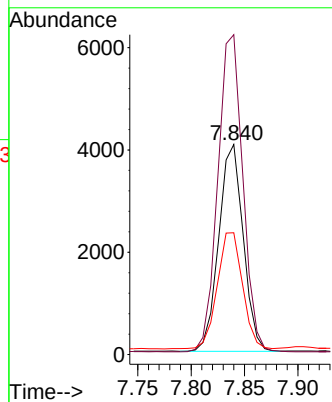


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

Instrument :
BNA_N
ClientSampleId :
MW201D-20250908

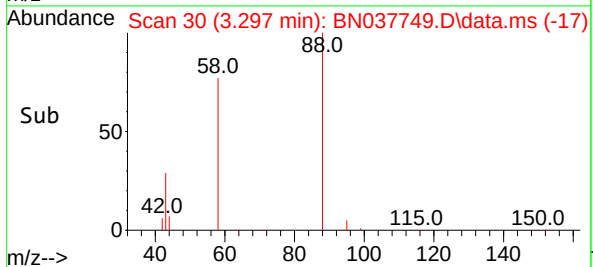
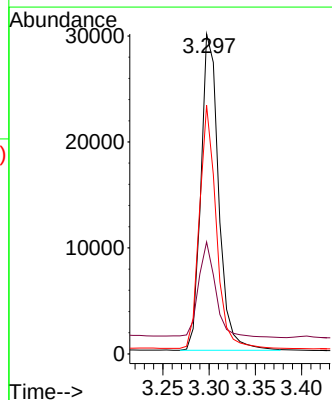
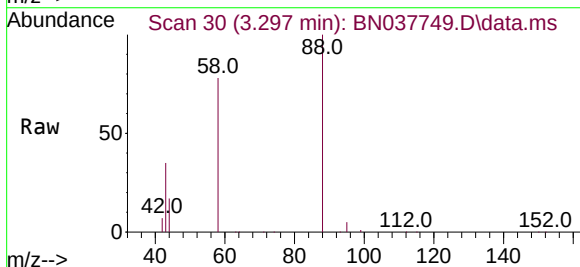


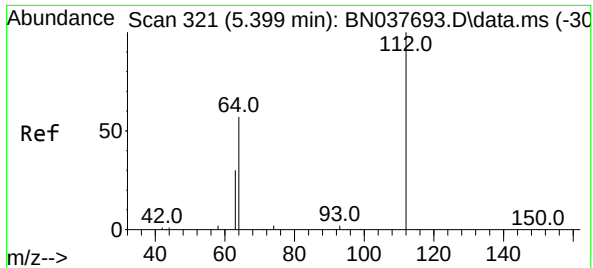
Tgt Ion:152 Resp: 6464
Ion Ratio Lower Upper
152 100
150 152.3 124.5 186.7
115 57.9 49.2 73.8



#2
1,4-Dioxane
Concen: 5.928 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

Tgt Ion: 88 Resp: 39911
Ion Ratio Lower Upper
88 100
43 29.3 26.8 40.2
58 72.0 61.9 92.9

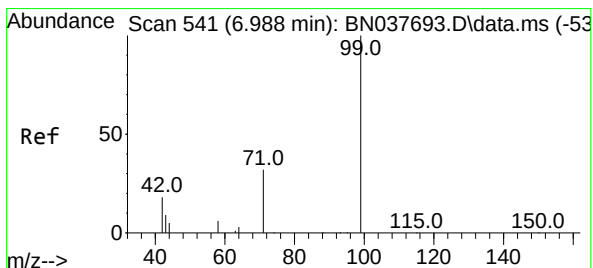
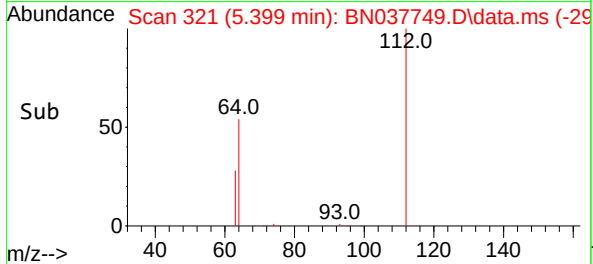
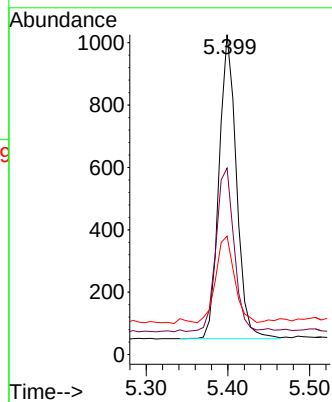
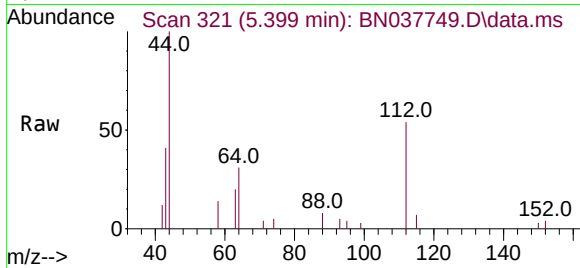




#4
2-Fluorophenol
Concen: 0.098 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

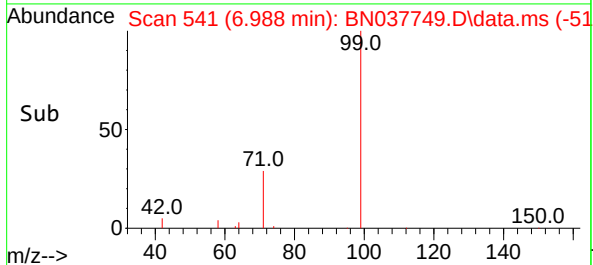
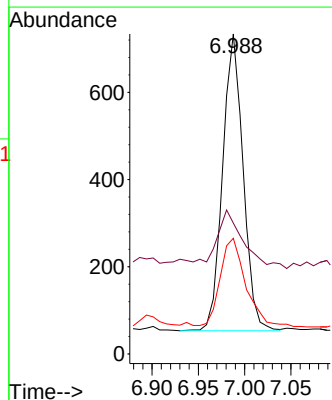
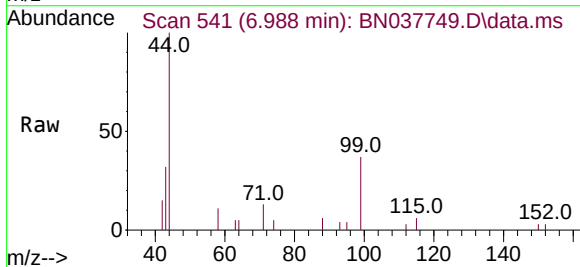
Instrument :
BNA_N
ClientSampleId :
MW201D-20250908

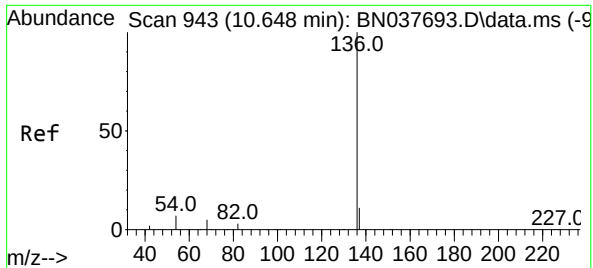
Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.5	44.9	67.3
63	30.6	24.7	37.1



#5
Phenol-d6
Concen: 0.055 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

Tgt Ion	Ratio	Lower	Upper
99	100		
42	25.7	16.6	24.8
71	39.2	26.7	40.1

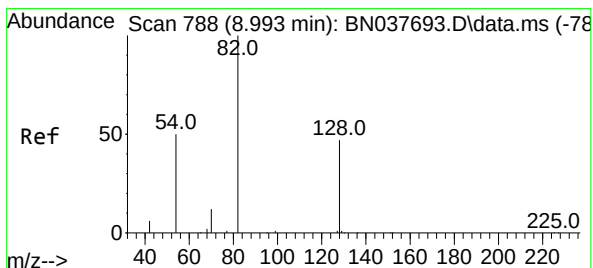
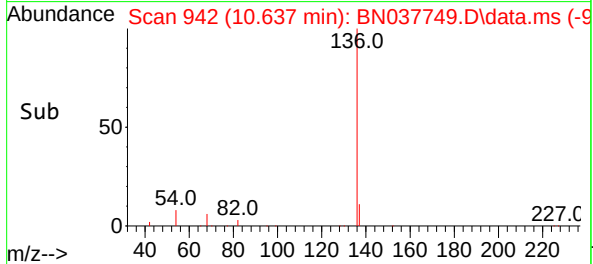
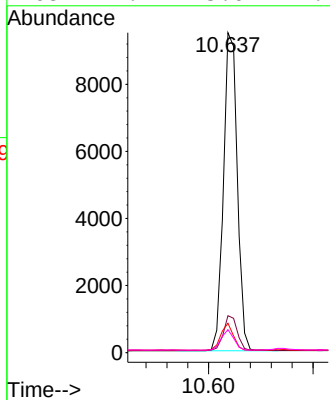
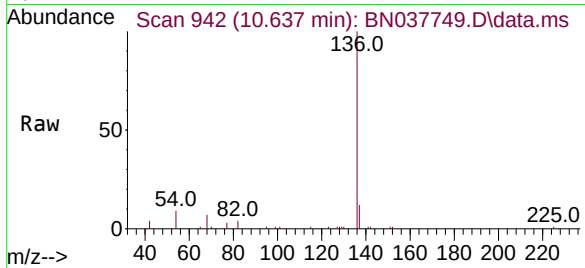




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

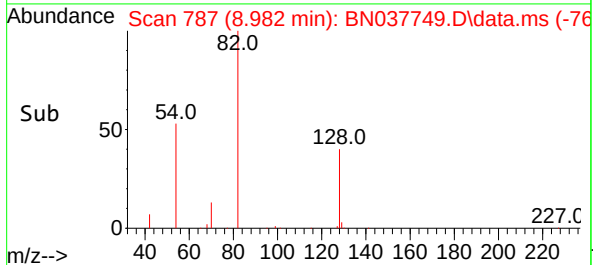
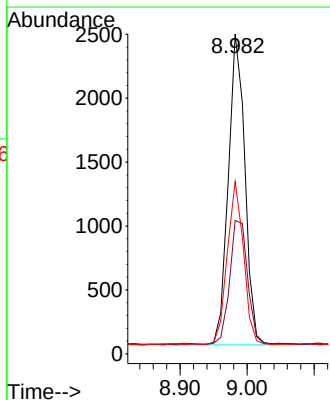
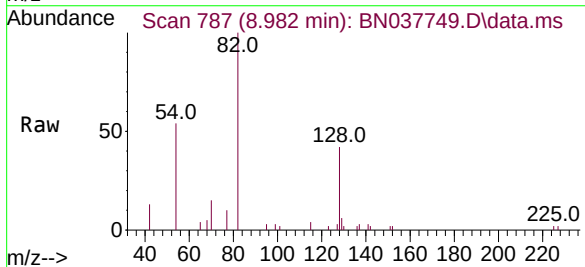
Instrument :
BNA_N
ClientSampleId :
MW201D-20250908

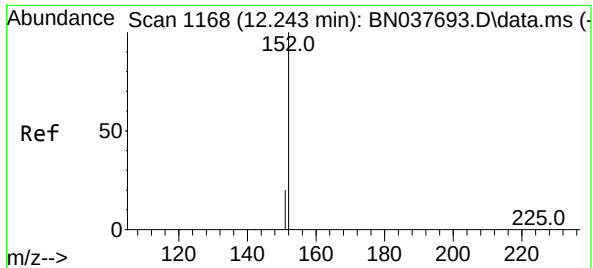
Tgt Ion:136	Resp:	17423
Ion	Ratio	Lower Upper
136	100	
137	11.5	9.1 13.7
54	9.2	6.3 9.5
68	7.2	5.0 7.4



#8
Nitrobenzene-d5
Concen: 0.328 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

Tgt Ion: 82	Resp:	4184
Ion	Ratio	Lower Upper
82	100	
128	41.7	38.3 57.5
54	53.9	41.4 62.2

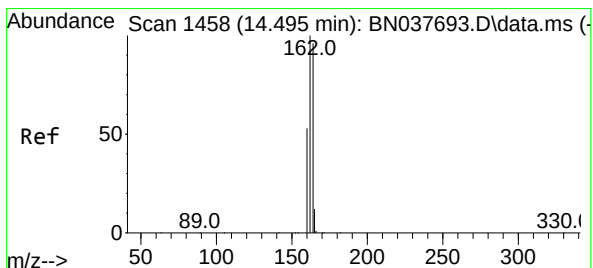
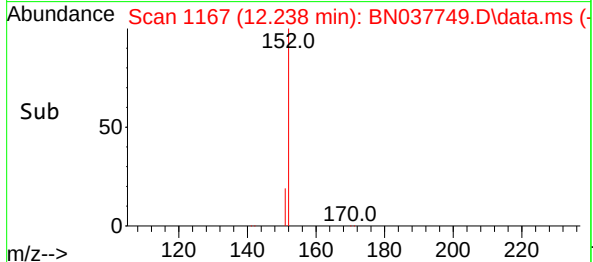
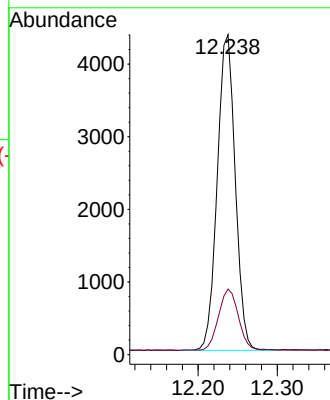
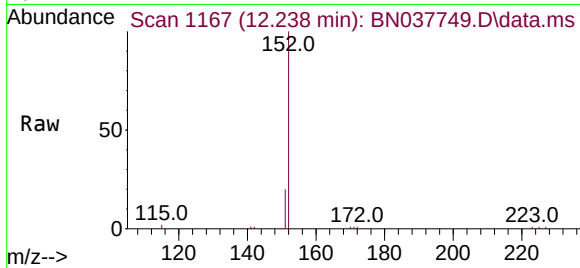




#11
2-Methylnaphthalene-d10
Concen: 0.296 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

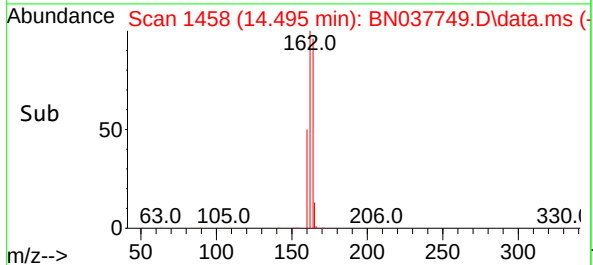
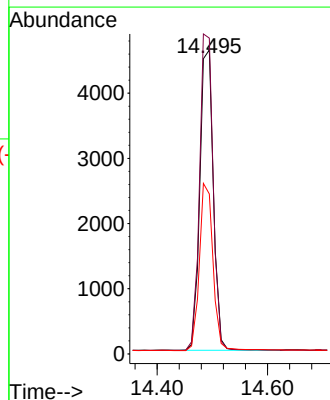
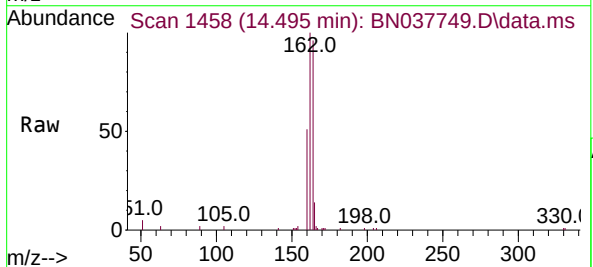
Instrument :
BNA_N
ClientSampleId :
MW201D-20250908

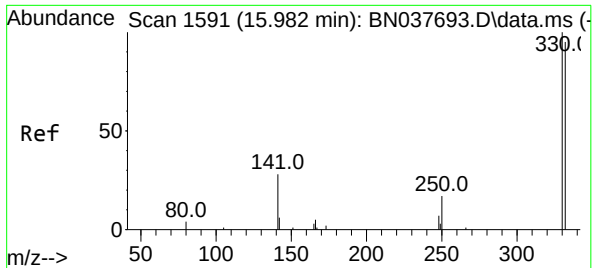
Tgt Ion:152 Resp: 6835
Ion Ratio Lower Upper
152 100
151 21.6 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

Tgt Ion:164 Resp: 7814
Ion Ratio Lower Upper
164 100
162 103.9 83.1 124.7
160 52.6 44.3 66.5





#14

2,4,6-Tribromophenol

Concen: 0.342 ng

RT: 15.982 min Scan# 1591

Delta R.T. -0.000 min

Lab File: BN037749.D

Acq: 17 Sep 2025 17:00

Instrument :

BNA_N

ClientSampleId :

MW201D-20250908

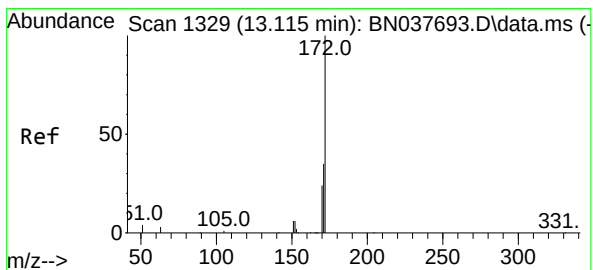
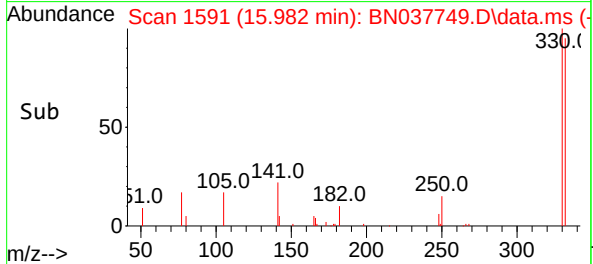
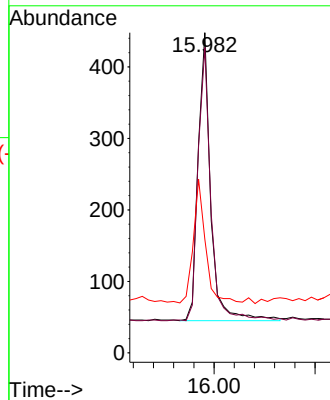
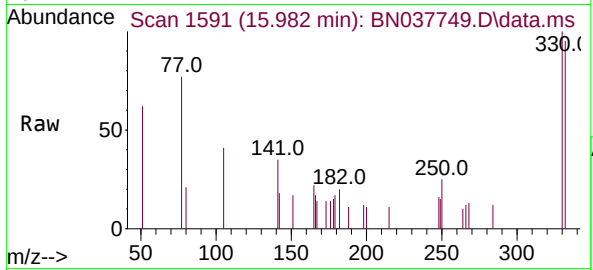
Tgt Ion:330 Resp: 696

Ion Ratio Lower Upper

330 100

332 96.3 75.3 112.9

141 42.1 35.0 52.4



#15

2-Fluorobiphenyl

Concen: 0.333 ng

RT: 13.115 min Scan# 1329

Delta R.T. -0.000 min

Lab File: BN037749.D

Acq: 17 Sep 2025 17:00

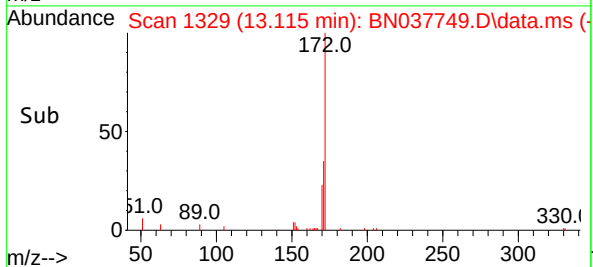
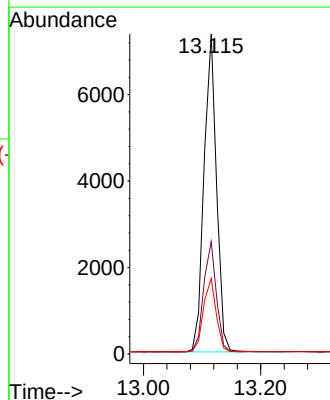
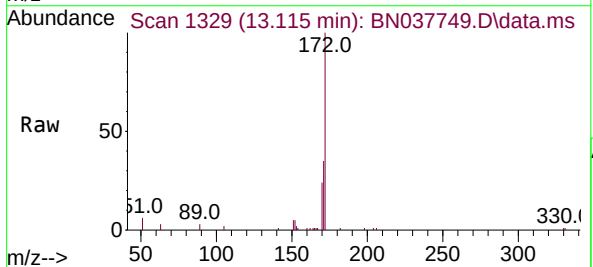
Tgt Ion:172 Resp: 10870

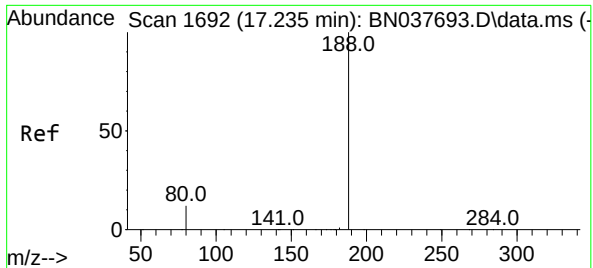
Ion Ratio Lower Upper

172 100

171 35.1 28.6 43.0

170 23.5 19.8 29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037749.D

Acq: 17 Sep 2025 17:00

Instrument :

BNA_N

ClientSampleId :

MW201D-20250908

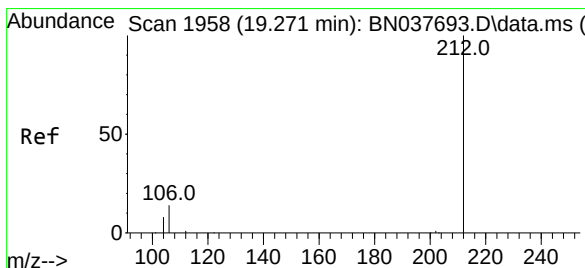
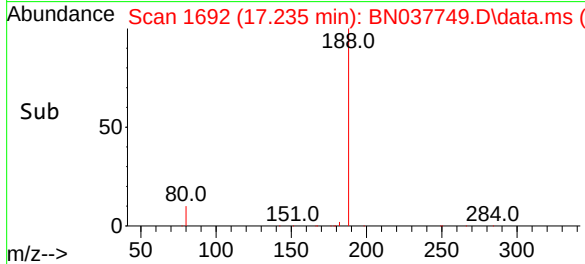
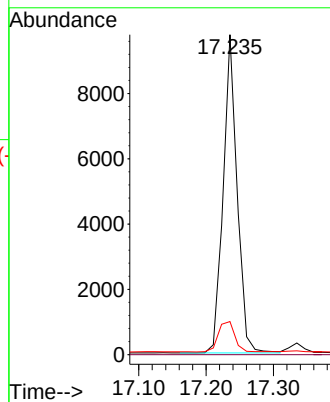
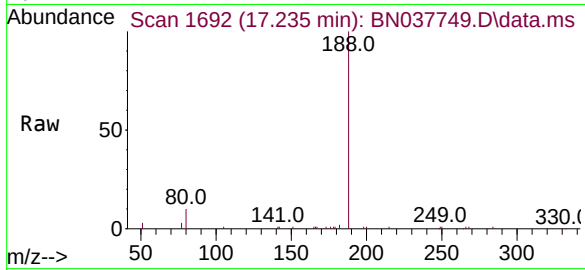
Tgt Ion:188 Resp: 14079

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.3 10.6 15.8#



#27

Fluoranthene-d10

Concen: 0.363 ng

RT: 19.267 min Scan# 1957

Delta R.T. -0.005 min

Lab File: BN037749.D

Acq: 17 Sep 2025 17:00

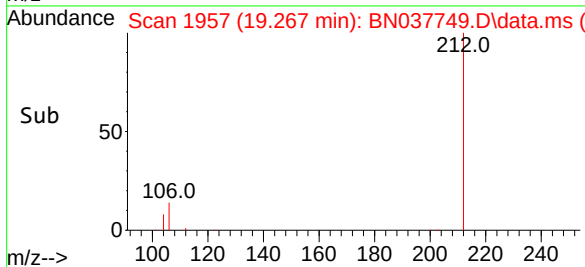
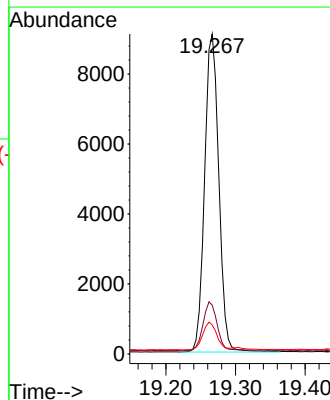
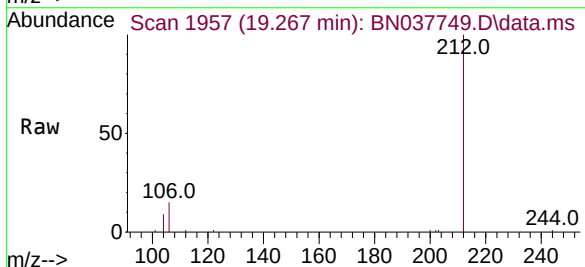
Tgt Ion:212 Resp: 12815

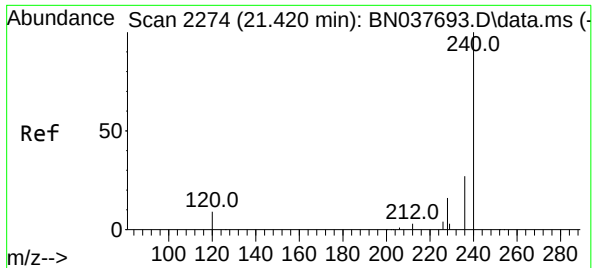
Ion Ratio Lower Upper

212 100

106 15.3 12.2 18.2

104 8.7 6.9 10.3

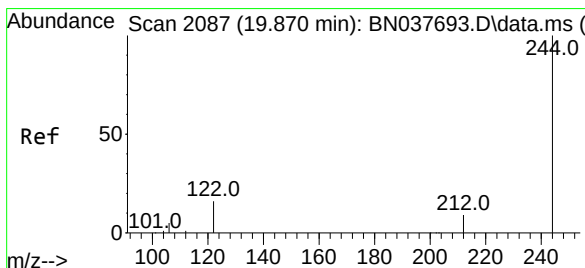
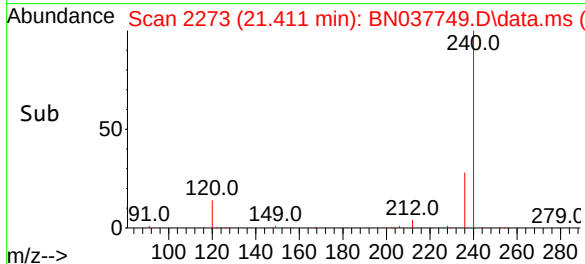
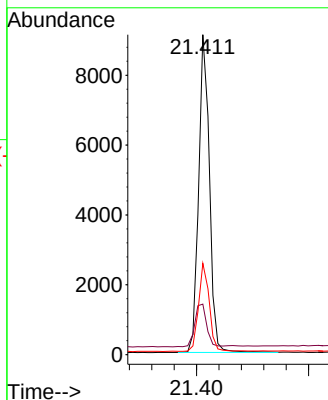
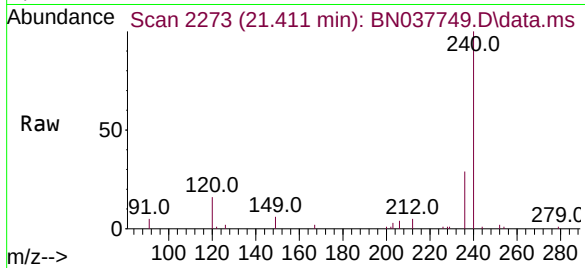




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

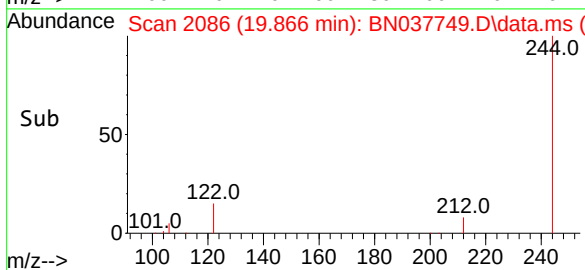
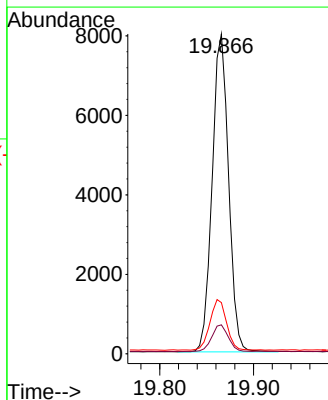
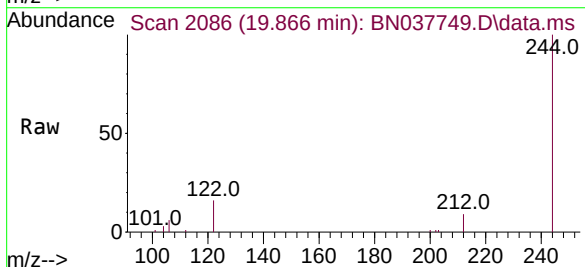
Instrument :
BNA_N
ClientSampleId :
MW201D-20250908

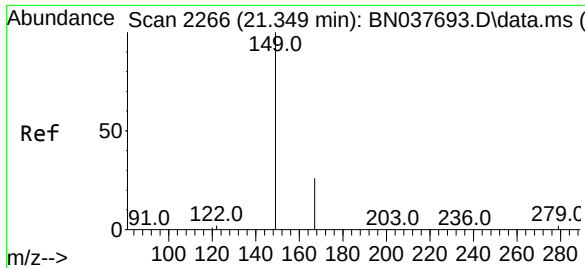
Tgt Ion:240 Resp: 12160
Ion Ratio Lower Upper
240 100
120 15.8 9.2 13.8#
236 28.5 22.6 33.8



#31
Terphenyl-d14
Concen: 0.393 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

Tgt Ion:244 Resp: 9711
Ion Ratio Lower Upper
244 100
212 9.1 7.5 11.3
122 16.0 13.2 19.8

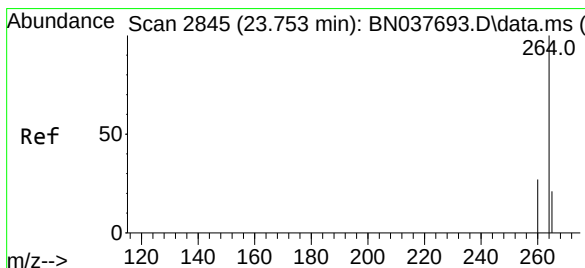
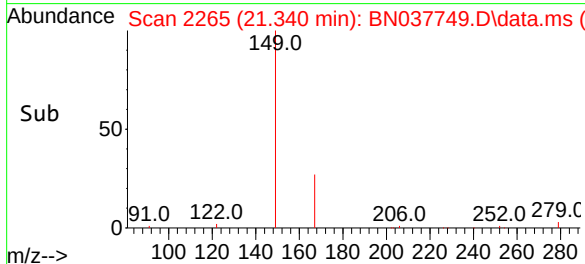
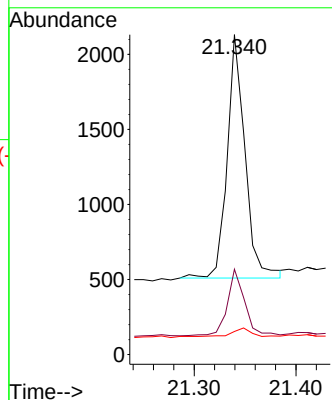
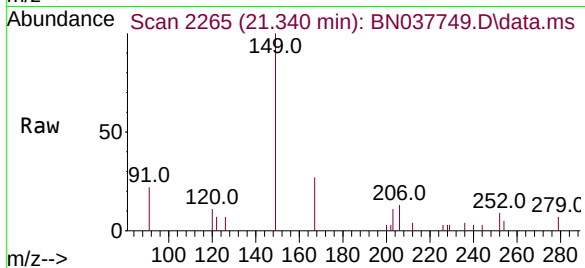




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.157 ng
RT: 21.340 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

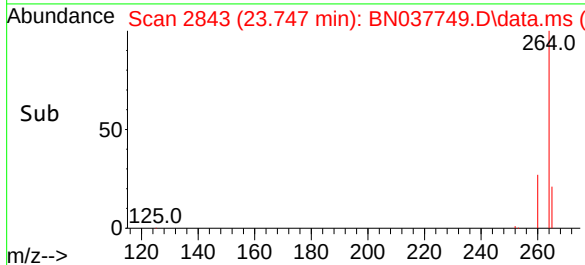
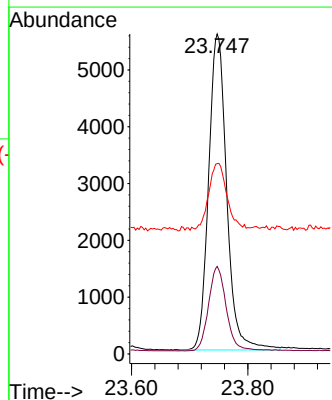
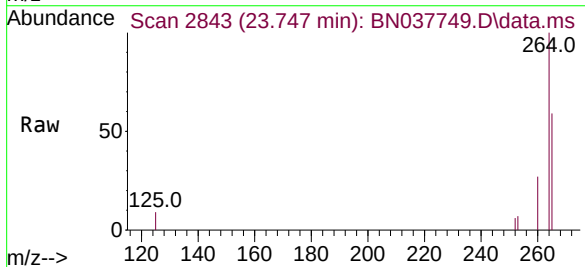
Instrument :
BNA_N
ClientSampleId :
MW201D-20250908

Tgt Ion:149 Resp: 1977
Ion Ratio Lower Upper
149 100
167 26.7 20.8 31.2
279 3.4 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.747 min Scan# 2843
Delta R.T. -0.006 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

Tgt Ion:264 Resp: 12015
Ion Ratio Lower Upper
264 100
260 27.4 21.8 32.8
265 59.5 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	09/08/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/12/25
Client Sample ID:	MW201D-20250908DL		SDG No.:	Q3095
Lab Sample ID:	Q3095-03DL		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
BN037789.D	2	09/15/25 10:15	09/18/25 22:27	PB169692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.70	D	0.13	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		73%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		101%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7720		7.833			
1146-65-2	Naphthalene-d8	21000		10.637			
15067-26-2	Acenaphthene-d10	9570		14.484			
1517-22-2	Phenanthrene-d10	16100		17.235			
1719-03-5	Chrysene-d12	11700		21.411			
1520-96-3	Perylene-d12	11700		23.739			

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\BN091825\
 Data File : BN037789.D
 Acq On : 18 Sep 2025 22:27
 Operator : RC/JU
 Sample : Q3095-03DL 2X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW201D-20250908DL

Quant Time: Sep 19 04:12:01 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

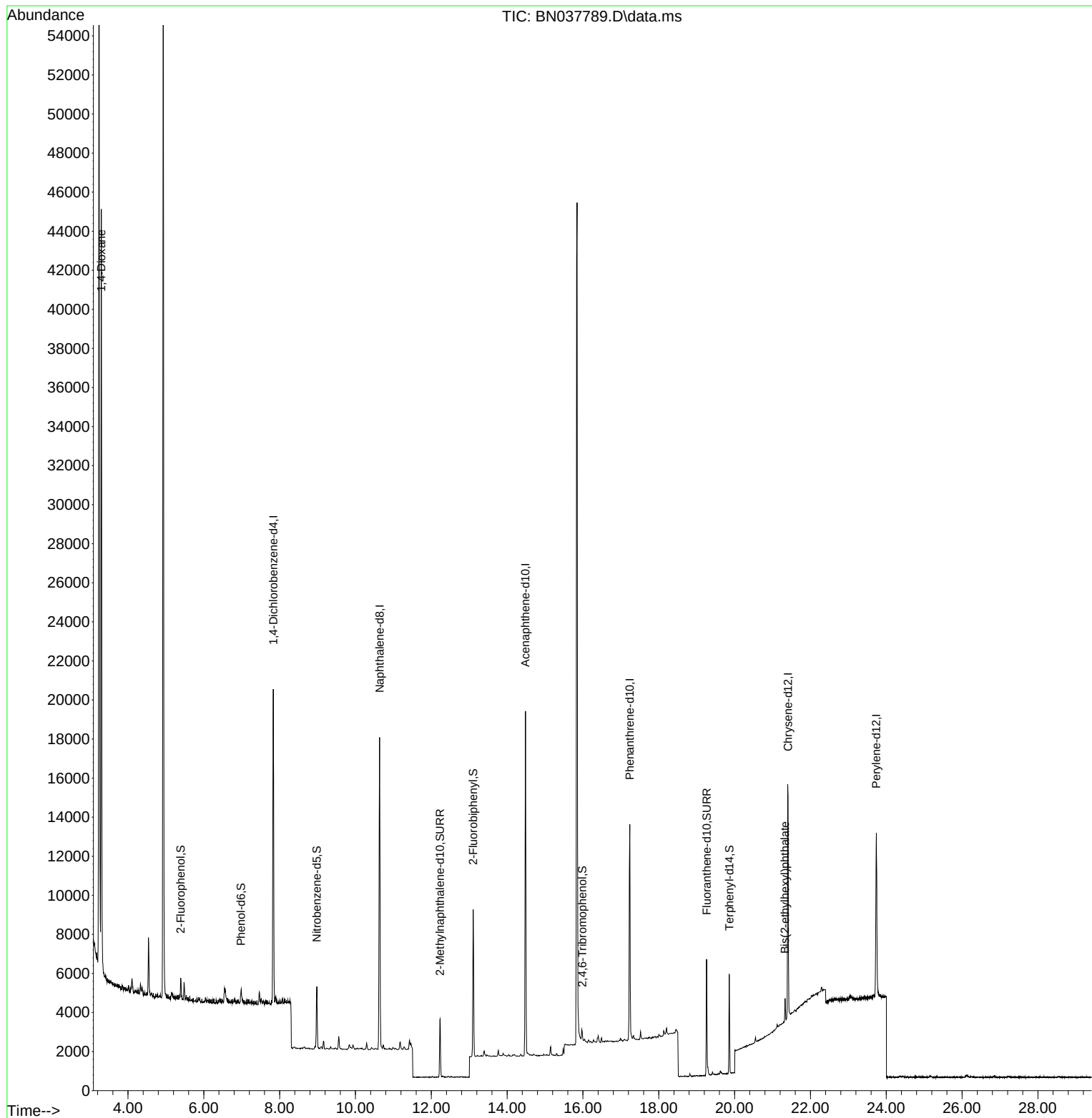
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7715	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	20993	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	9567	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	16081	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	11736	0.400	ng	0.00
35) Perylene-d12	23.739	264	11717	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	867	0.049	ng	0.00
5) Phenol-d6	6.981	99	629	0.027	ng	0.00
8) Nitrobenzene-d5	8.982	82	2516	0.164	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	4049	0.146	ng	-0.02
14) 2,4,6-Tribromophenol	15.982	330	399	0.160	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	6450	0.161	ng	-0.01
27) Fluoranthene-d10	19.262	212	6575	0.163	ng	0.00
31) Terphenyl-d14	19.861	244	4825	0.203	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	22821	2.840	ng	95
34) Bis(2-ethylhexyl)phtha...	21.331	149	1137	0.094	ng	# 99

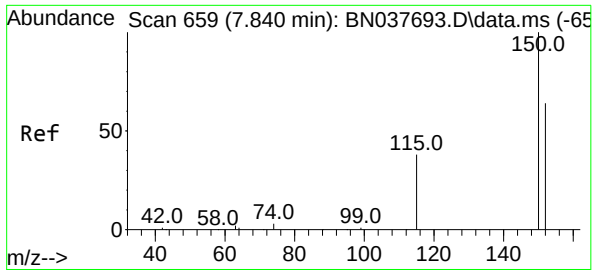
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037789.D
Acq On : 18 Sep 2025 22:27
Operator : RC/JU
Sample : Q3095-03DL 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW201D-20250908DL

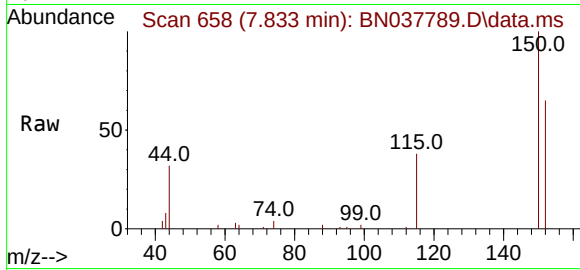
Quant Time: Sep 19 04:12:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



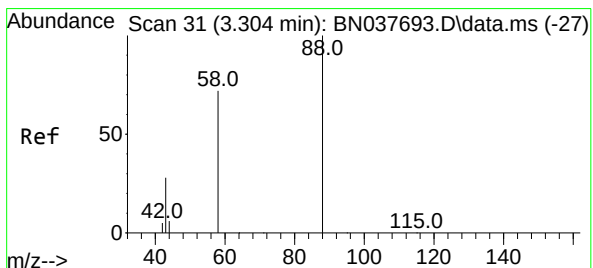
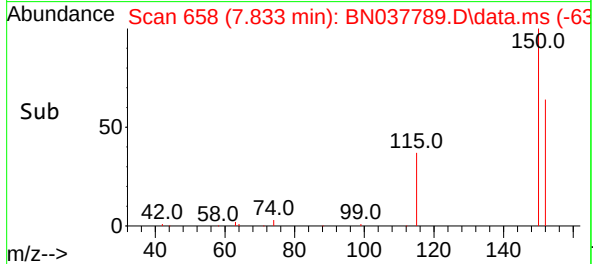
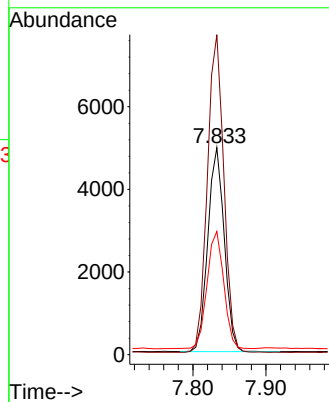


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

Instrument :
BNA_N
ClientSampleId :
MW201D-20250908DL

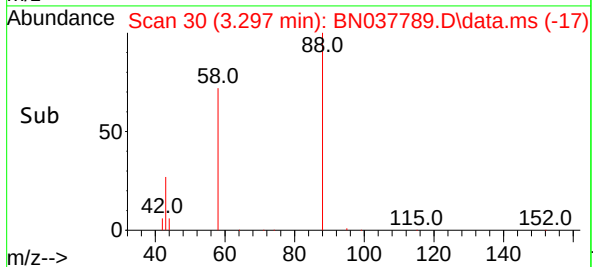
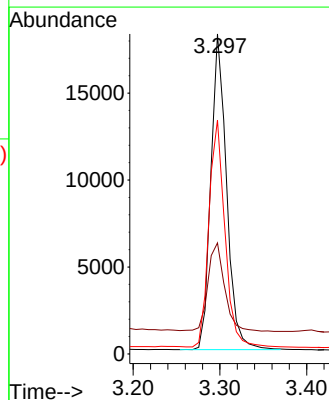
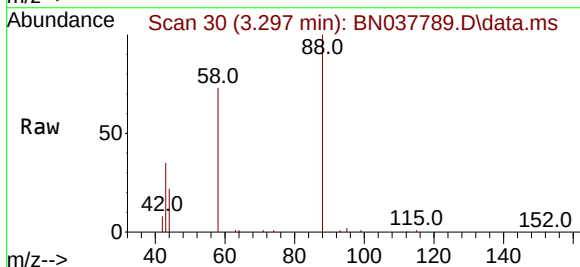


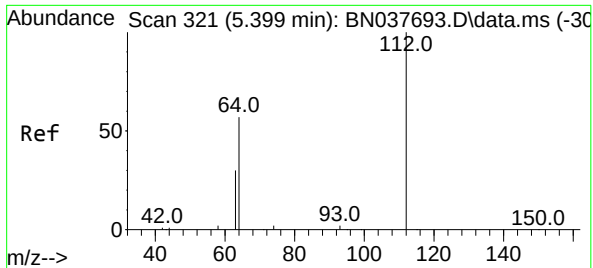
Tgt Ion:152 Resp: 7715
Ion Ratio Lower Upper
152 100
150 154.5 124.5 186.7
115 59.5 49.2 73.8



#2
1,4-Dioxane
Concen: 2.840 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

Tgt Ion: 88 Resp: 22821
Ion Ratio Lower Upper
88 100
43 29.9 26.8 40.2
58 73.0 61.9 92.9

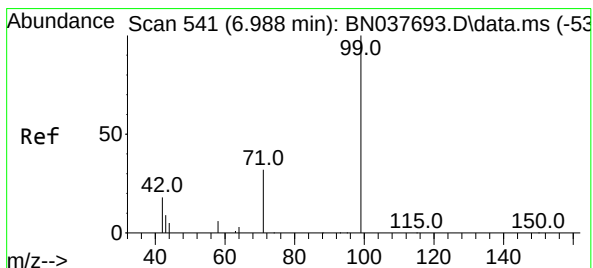
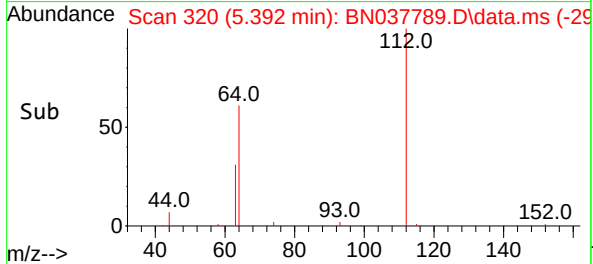
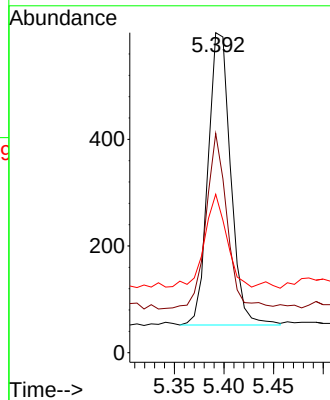
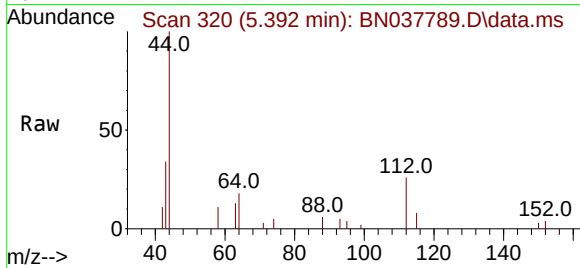




#4
2-Fluorophenol
Concen: 0.049 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

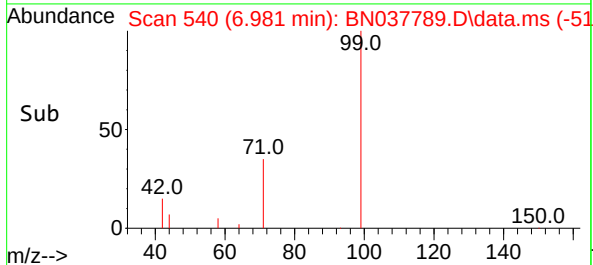
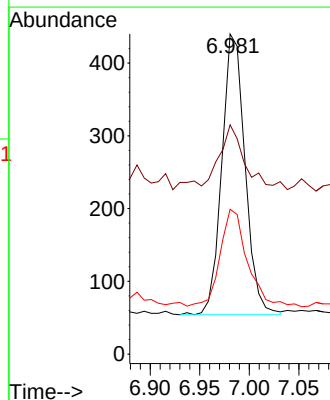
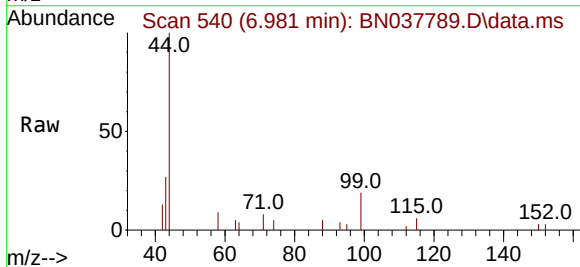
Instrument :
BNA_N
ClientSampleId :
MW201D-20250908DL

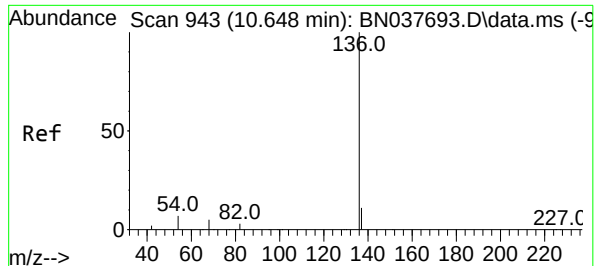
Tgt Ion:112 Resp: 867
Ion Ratio Lower Upper
112 100
64 55.5 44.9 67.3
63 30.8 24.7 37.1



#5
Phenol-d6
Concen: 0.027 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

Tgt Ion: 99 Resp: 629
Ion Ratio Lower Upper
99 100
42 25.3 16.6 24.8#
71 41.3 26.7 40.1#

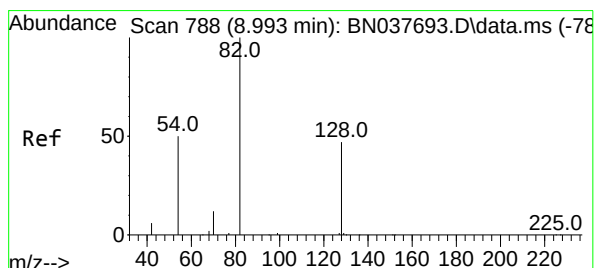
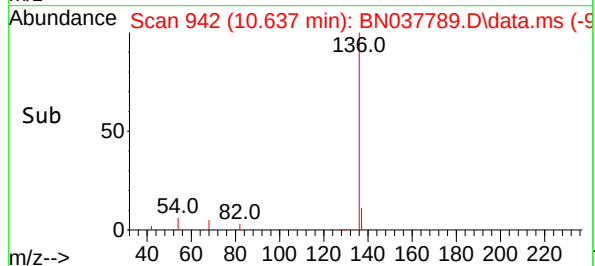
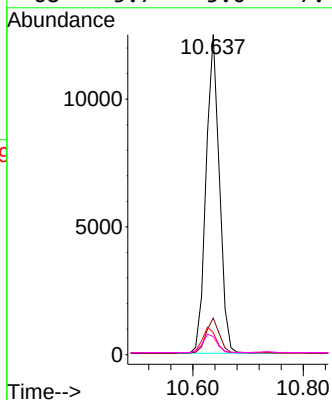
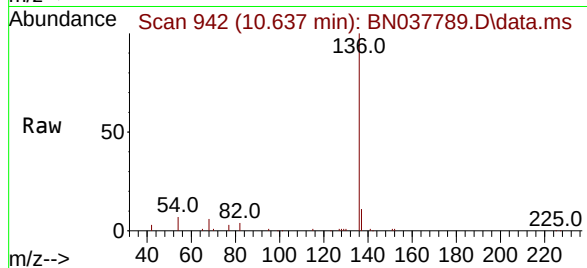




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

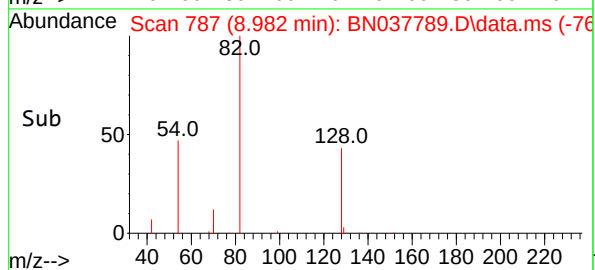
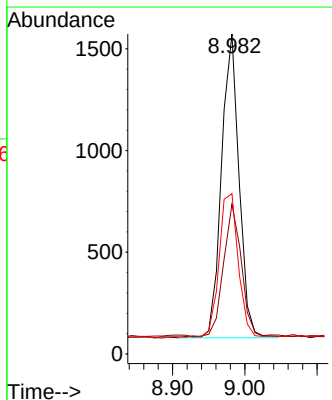
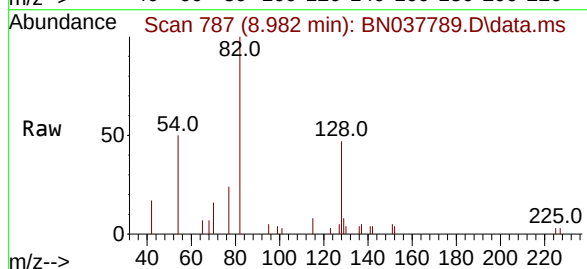
Instrument :
BNA_N
ClientSampleId :
MW201D-20250908DL

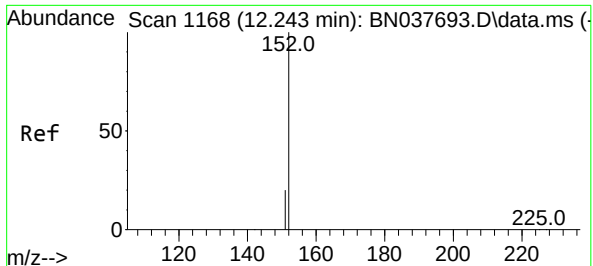
Tgt Ion:	136	Resp:	20993
Ion Ratio	Lower	Upper	
136	100		
137	11.5	9.1	13.7
54	6.9	6.3	9.5
68	5.7	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.164 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

Tgt Ion:	82	Resp:	2516
Ion Ratio	Lower	Upper	
82	100		
128	46.8	38.3	57.5
54	50.1	41.4	62.2

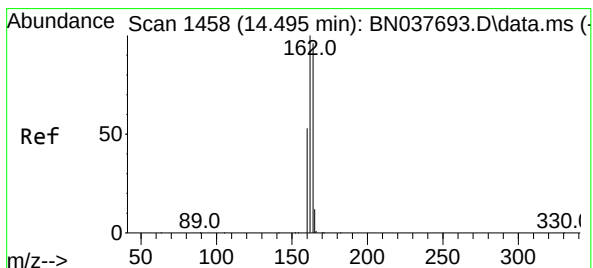
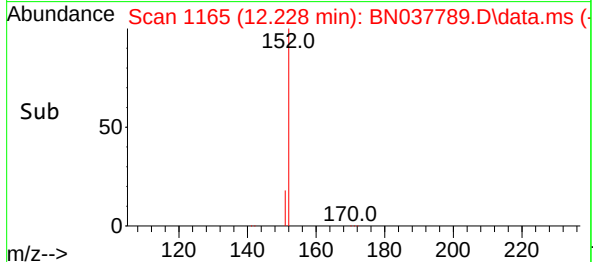
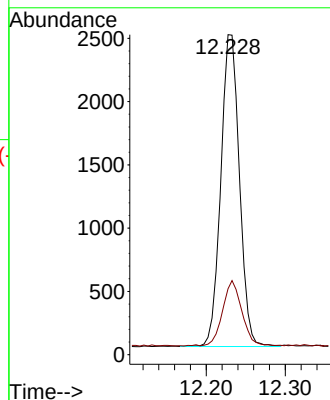
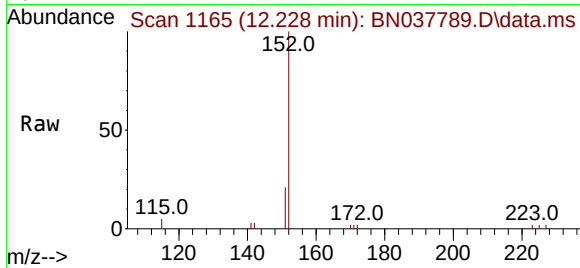




#11
2-Methylnaphthalene-d10
Concen: 0.146 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

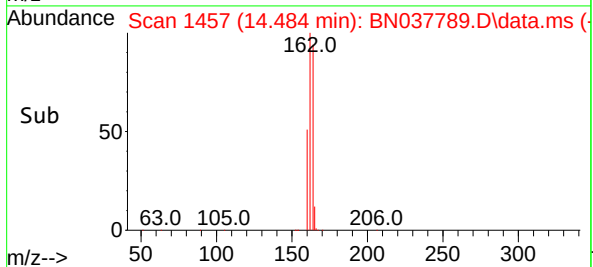
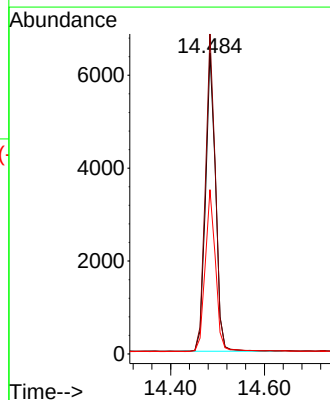
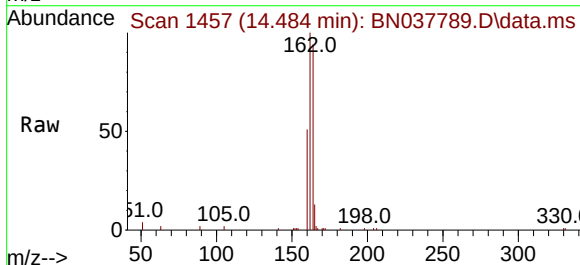
Instrument :
BNA_N
ClientSampleId :
MW201D-20250908DL

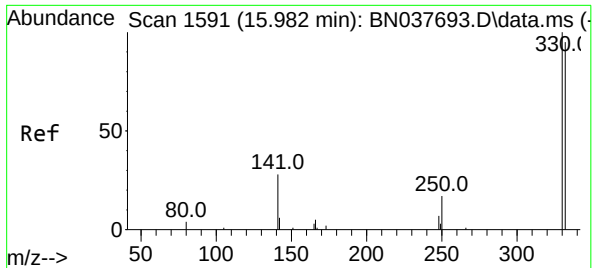
Tgt Ion:152 Resp: 4049
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

Tgt Ion:164 Resp: 9567
Ion Ratio Lower Upper
164 100
162 106.3 83.1 124.7
160 54.5 44.3 66.5

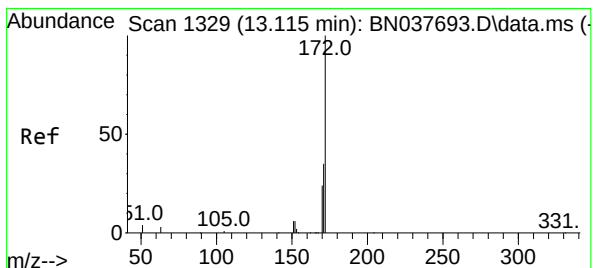
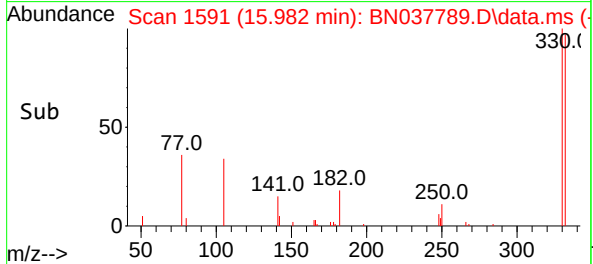
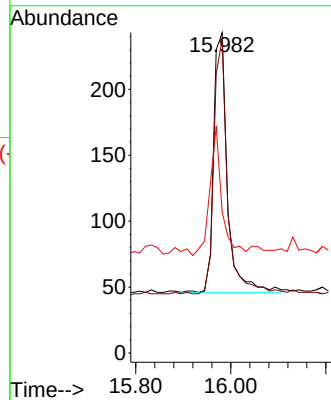
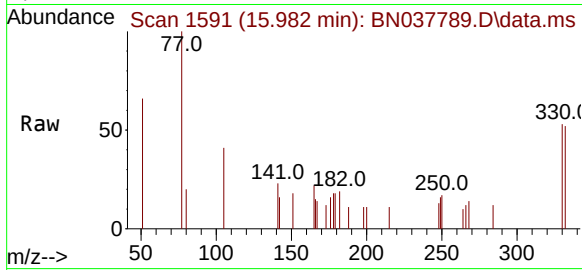




#14
2,4,6-Tribromophenol
Concen: 0.160 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

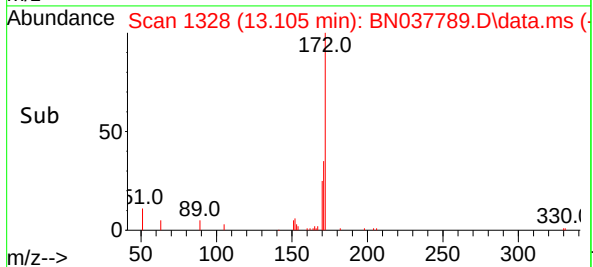
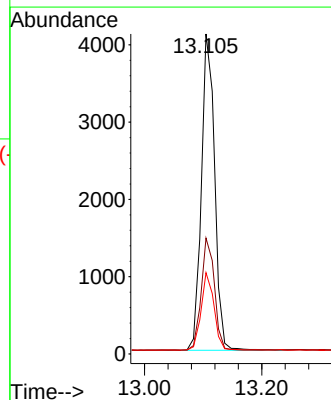
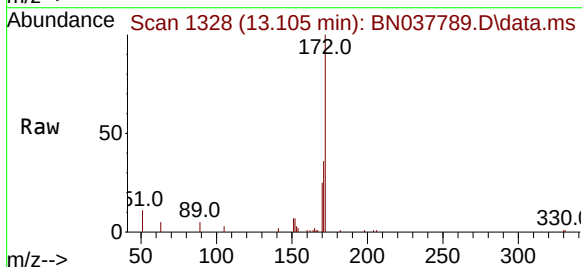
Instrument :
BNA_N
ClientSampleId :
MW201D-20250908DL

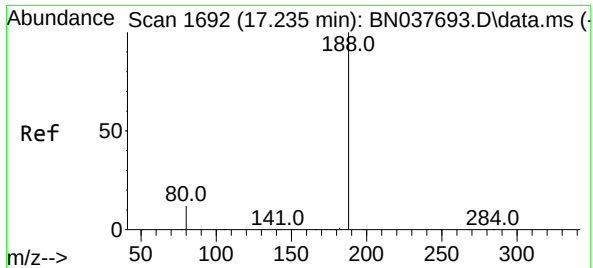
Tgt Ion:330 Resp: 399
Ion Ratio Lower Upper
330 100
332 96.7 75.3 112.9
141 43.4 35.0 52.4



#15
2-Fluorobiphenyl
Concen: 0.161 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

Tgt Ion:172 Resp: 6450
Ion Ratio Lower Upper
172 100
171 36.2 28.6 43.0
170 25.4 19.8 29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037789.D

Acq: 18 Sep 2025 22:27

Instrument :

BNA_N

ClientSampleId :

MW201D-20250908DL

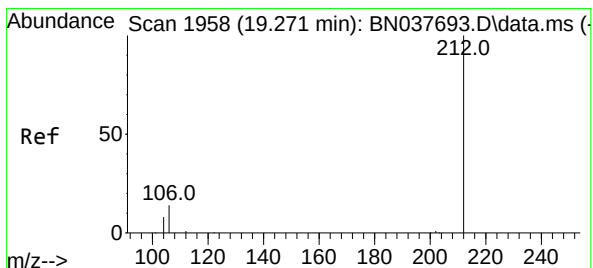
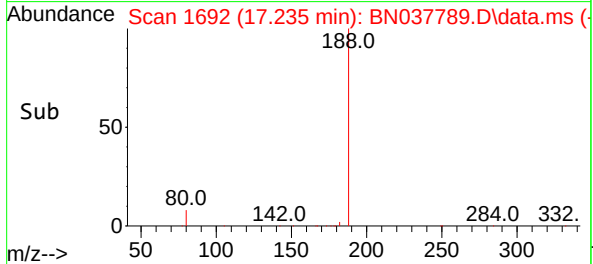
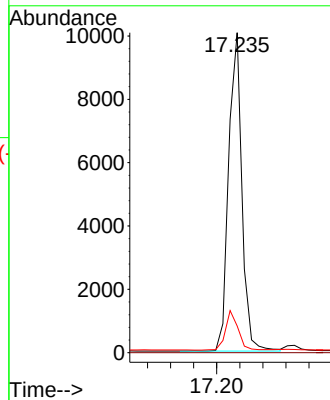
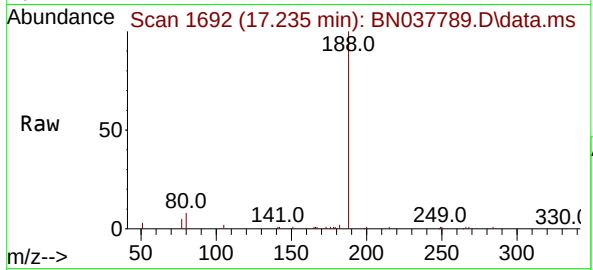
Tgt Ion:188 Resp: 16081

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.4 10.6 15.8#



#27

Fluoranthene-d10

Concen: 0.163 ng

RT: 19.262 min Scan# 1956

Delta R.T. -0.009 min

Lab File: BN037789.D

Acq: 18 Sep 2025 22:27

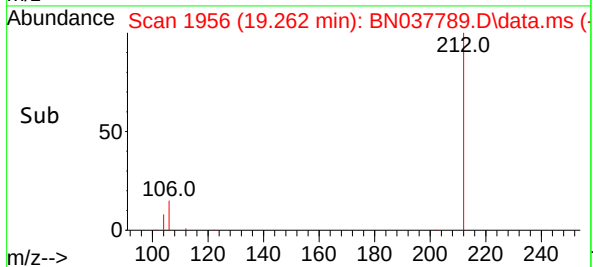
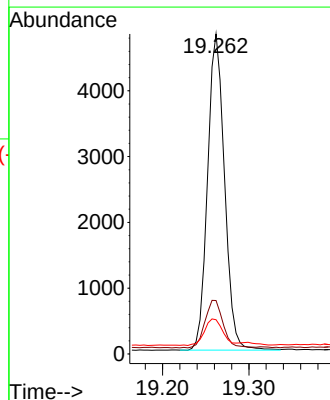
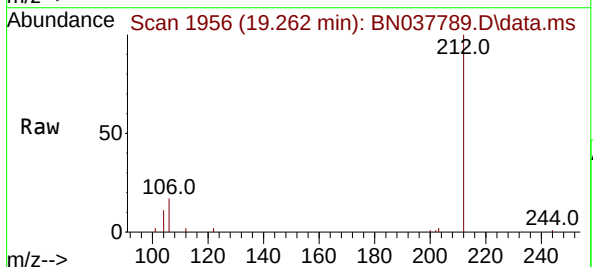
Tgt Ion:212 Resp: 6575

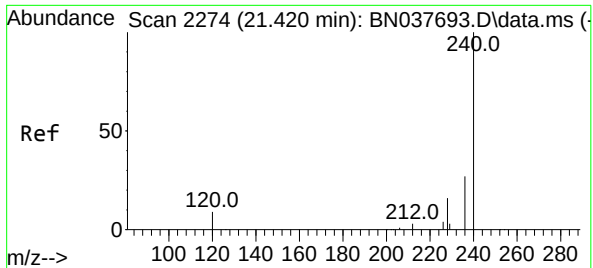
Ion Ratio Lower Upper

212 100

106 16.0 12.2 18.2

104 8.9 6.9 10.3

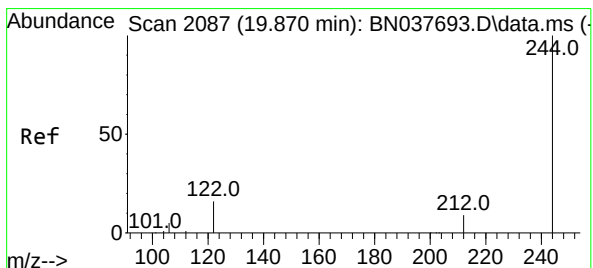
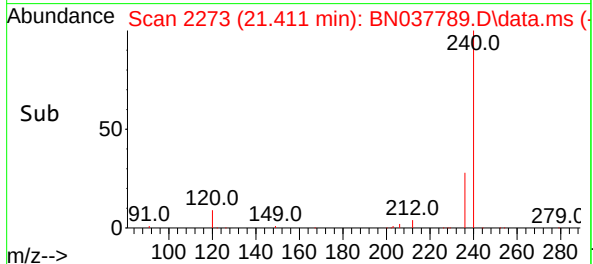
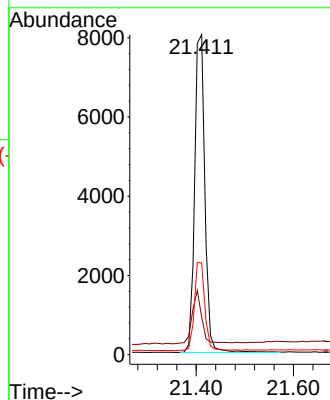
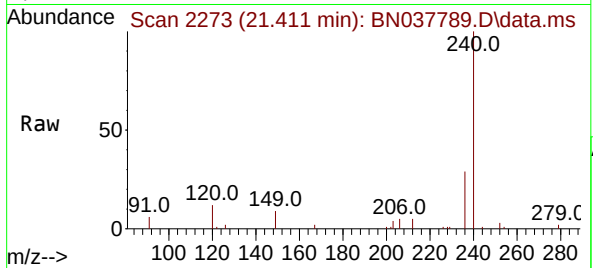




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

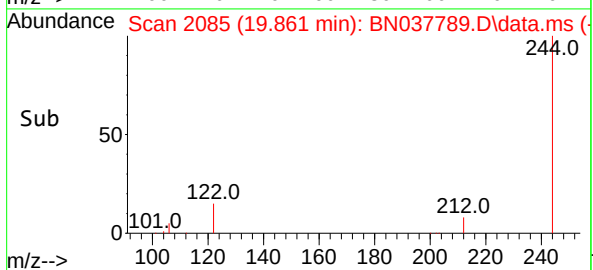
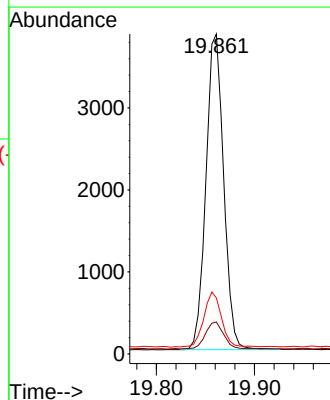
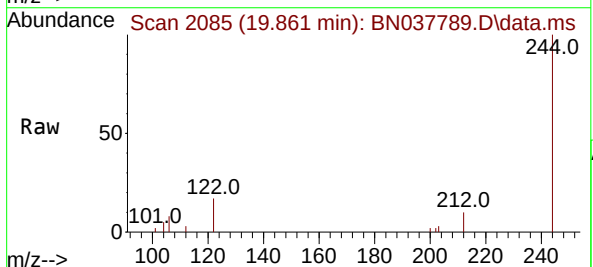
Instrument :
BNA_N
ClientSampleId :
MW201D-20250908DL

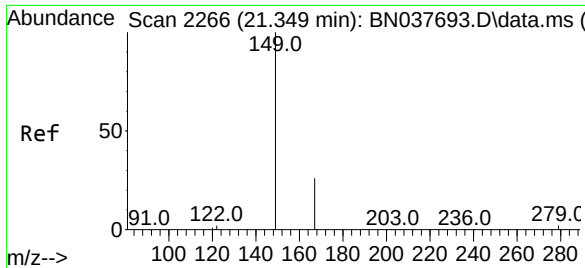
Tgt Ion:	240	Resp:	11736
Ion Ratio	Lower	Upper	
240	100		
120	11.8	9.2	13.8
236	28.7	22.6	33.8



#31
Terphenyl-d14
Concen: 0.203 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

Tgt Ion:	244	Resp:	4825
Ion Ratio	Lower	Upper	
244	100		
212	10.0	7.5	11.3
122	17.5	13.2	19.8

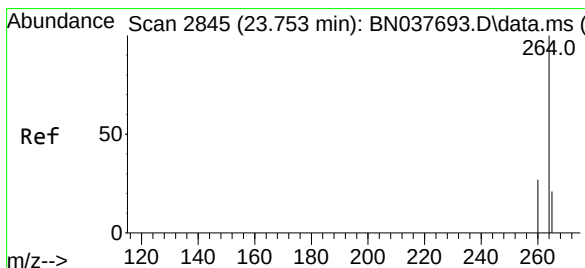
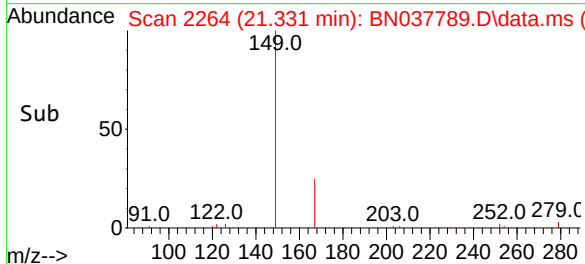
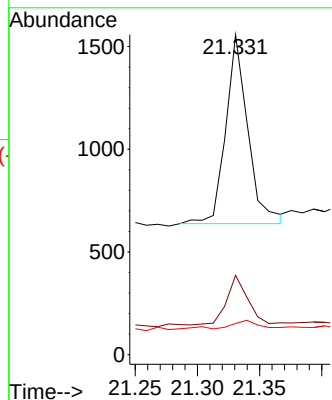
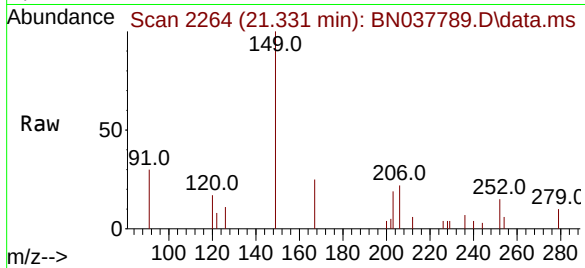




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.094 ng
RT: 21.331 min Scan# 2137
Delta R.T. -0.018 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

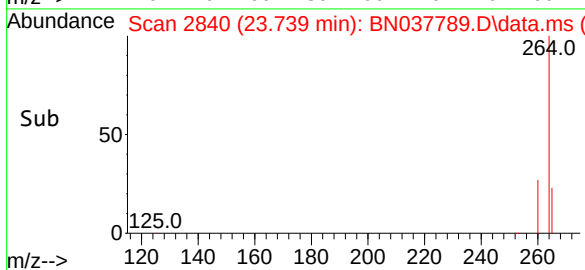
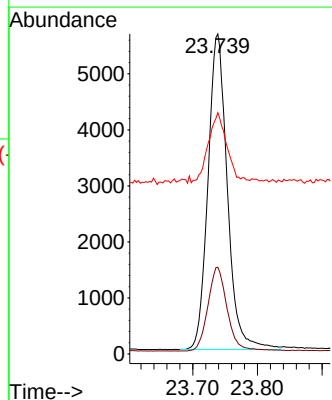
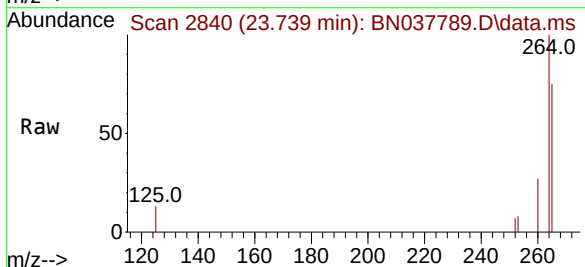
Instrument :
BNA_N
ClientSampleId :
MW201D-20250908DL

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.6	20.8	31.2
279	5.5	3.3	4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.739 min Scan# 2840
Delta R.T. -0.015 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

Tgt Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.8	32.8
265	75.4	39.4	59.2



Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	09/08/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/12/25
Client Sample ID:	MW179D1-20250908		SDG No.:	Q3095
Lab Sample ID:	Q3095-04		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
BN037750.D	1	09/15/25 10:15	09/17/25 17:36	PB169692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.22		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		95%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		107%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6640	7.84				
1146-65-2	Naphthalene-d8	17900	10.637				
15067-26-2	Acenaphthene-d10	7910	14.495				
1517-22-2	Phenanthrene-d10	13700	17.235				
1719-03-5	Chrysene-d12	11500	21.411				
1520-96-3	Perylene-d12	11300	23.747				

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\BN091725\
 Data File : BN037750.D
 Acq On : 17 Sep 2025 17:36
 Operator : RC/JU
 Sample : Q3095-04
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW179D1-20250908

Quant Time: Sep 17 18:05:06 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

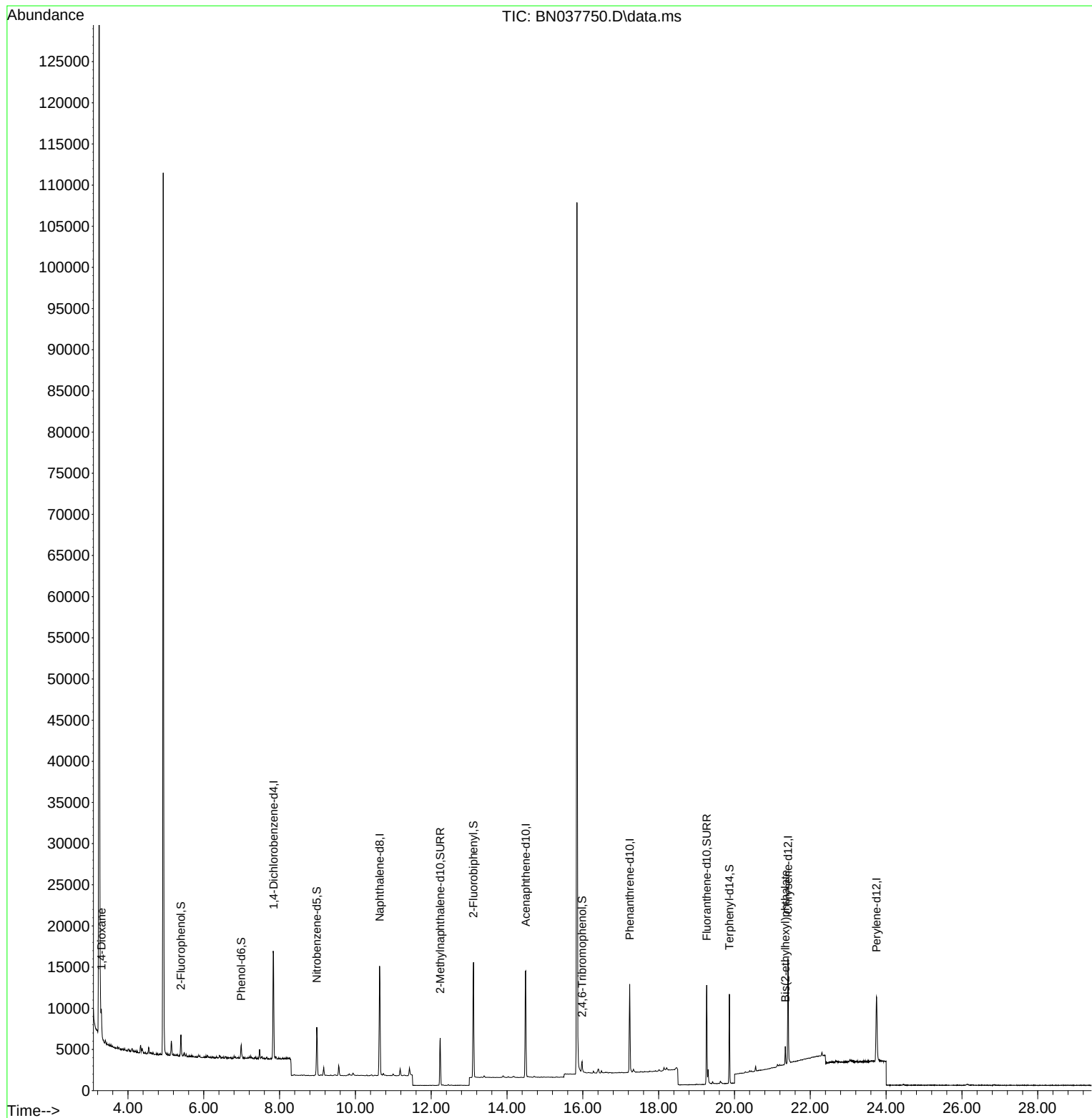
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	6641	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	17861	0.400	ng	-0.01
13) Acenaphthene-d10	14.495	164	7906	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	13742	0.400	ng	0.00
29) Chrysene-d12	21.411	240	11462	0.400	ng	# 0.00
35) Perylene-d12	23.747	264	11339	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2038	0.134	ng	0.00
5) Phenol-d6	6.988	99	1521	0.077	ng	0.00
8) Nitrobenzene-d5	8.982	82	4613	0.353	ng	-0.01
11) 2-Methylnaphthalene-d10	12.238	152	7496	0.317	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	834	0.404	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	11872	0.359	ng	0.00
27) Fluoranthene-d10	19.267	212	13070	0.379	ng	0.00
31) Terphenyl-d14	19.866	244	9983	0.429	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.304	88	1507	0.218	ng	# 84
34) Bis(2-ethylhexyl)phtha...	21.340	149	2119	0.179	ng	100

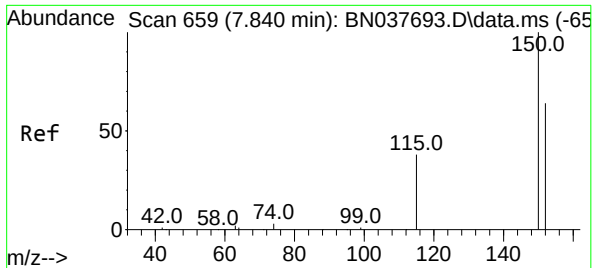
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037750.D
Acq On : 17 Sep 2025 17:36
Operator : RC/JU
Sample : Q3095-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW179D1-20250908

Quant Time: Sep 17 18:05:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

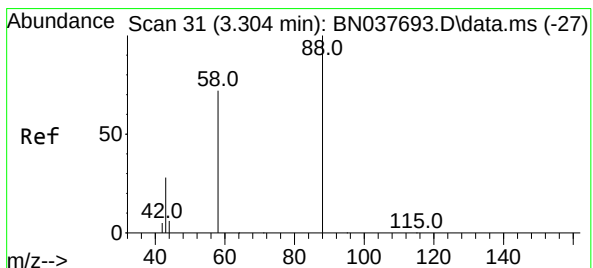
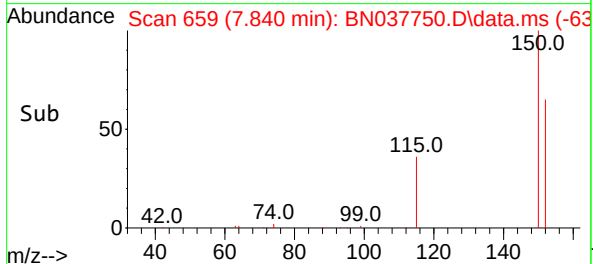
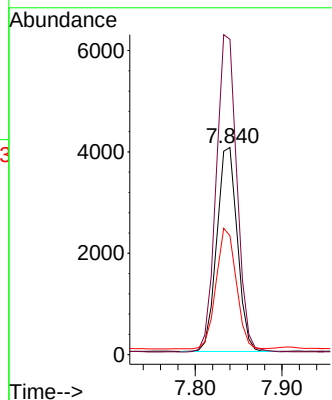
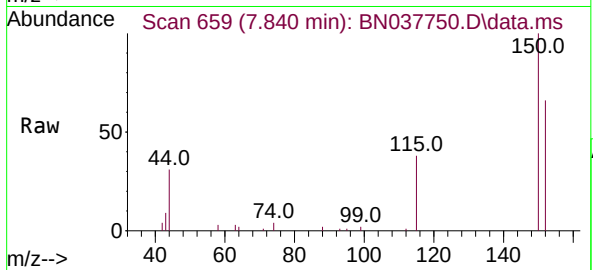




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

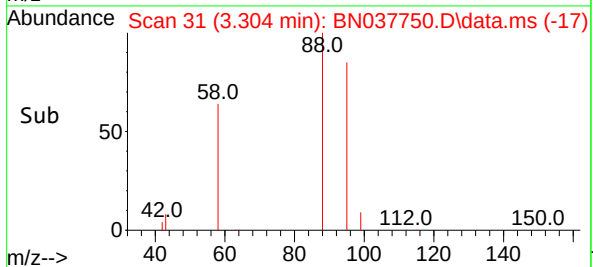
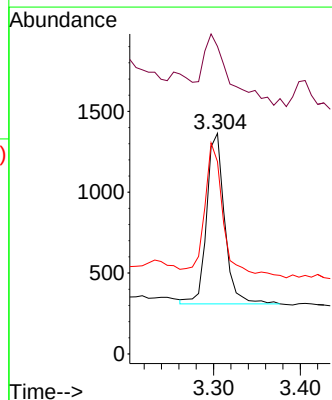
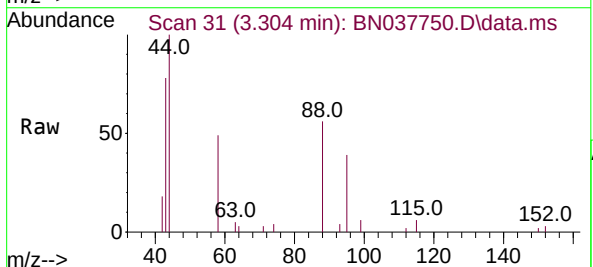
Instrument :
BNA_N
ClientSampleId :
MW179D1-20250908

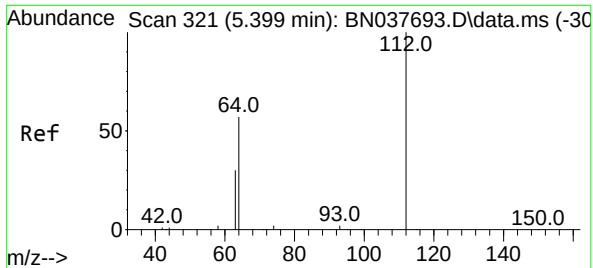
Tgt Ion:152 Resp: 6641
Ion Ratio Lower Upper
152 100
150 152.2 124.5 186.7
115 57.4 49.2 73.8



#2
1,4-Dioxane
Concen: 0.218 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

Tgt Ion: 88 Resp: 1507
Ion Ratio Lower Upper
88 100
43 61.9 26.8 40.2#
58 79.1 61.9 92.9

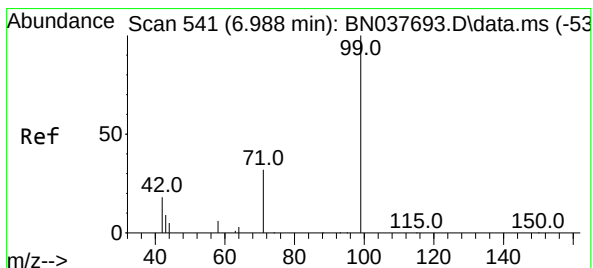
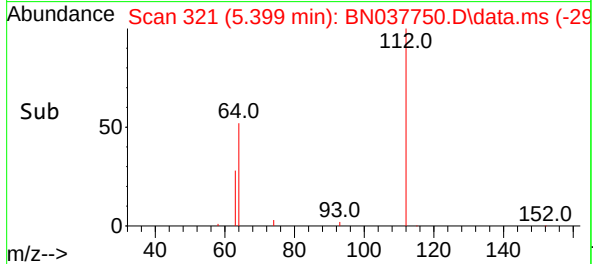
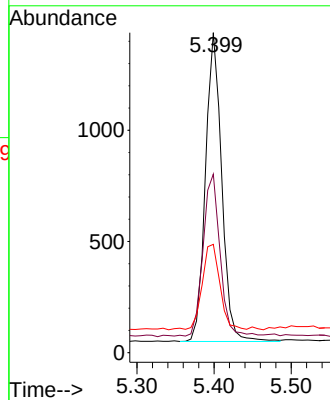
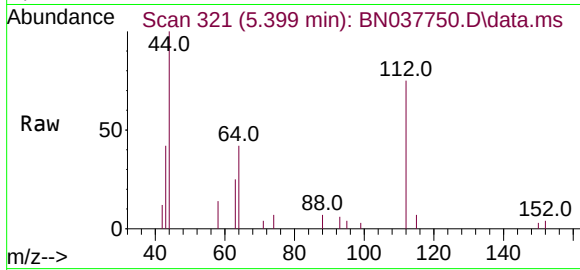




#4
2-Fluorophenol
Concen: 0.134 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

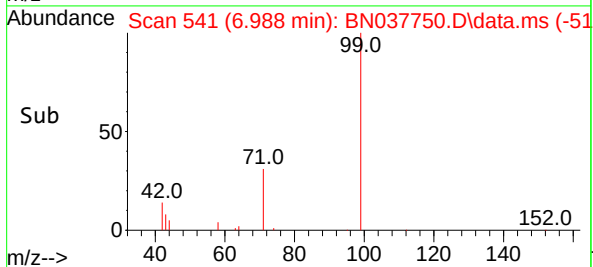
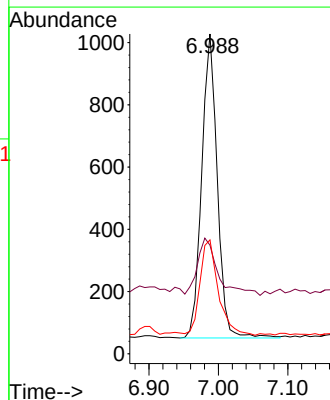
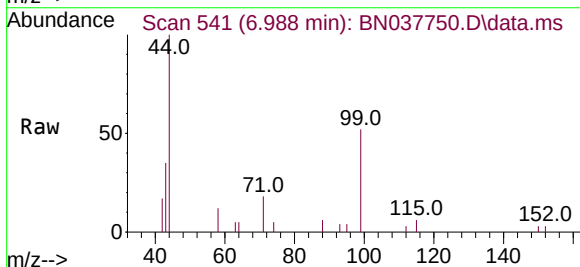
Instrument :
BNA_N
ClientSampleId :
MW179D1-20250908

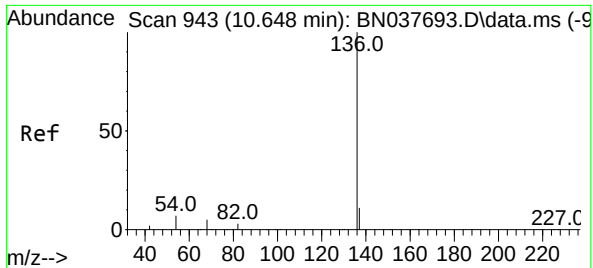
Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.4	44.9	67.3
63	30.1	24.7	37.1



#5
Phenol-d6
Concen: 0.077 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

Tgt Ion	Ratio	Lower	Upper
99	100		
42	24.6	16.6	24.8
71	36.8	26.7	40.1

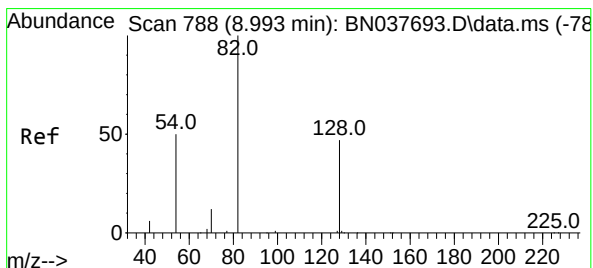
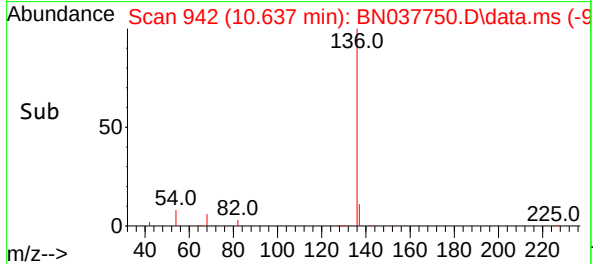
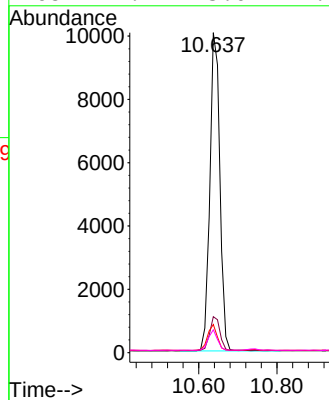
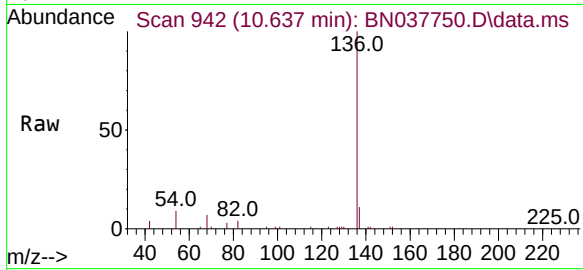




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

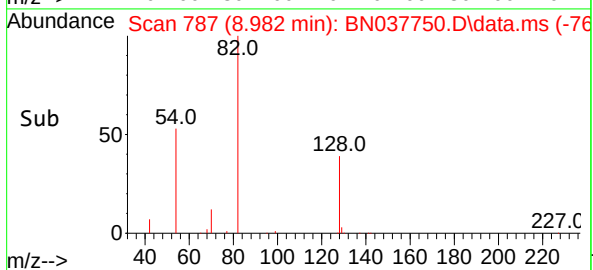
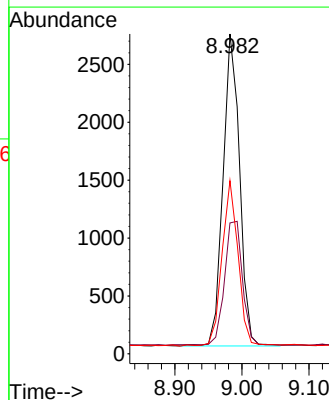
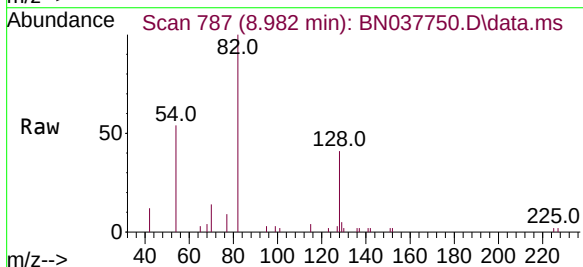
Instrument :
BNA_N
ClientSampleId :
MW179D1-20250908

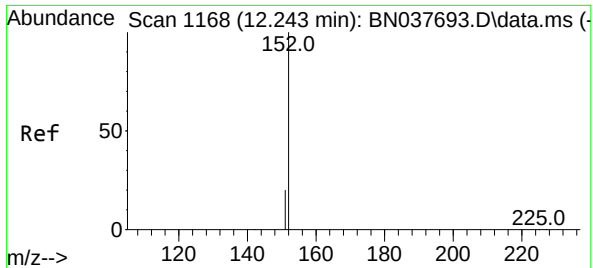
Tgt Ion:136	Resp:	17861
Ion Ratio	Lower	Upper
136	100	
137	11.2	9.1 13.7
54	8.8	6.3 9.5
68	7.1	5.0 7.4



#8
Nitrobenzene-d5
Concen: 0.353 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

Tgt Ion: 82	Resp:	4613
Ion Ratio	Lower	Upper
82	100	
128	40.9	38.3 57.5
54	54.1	41.4 62.2

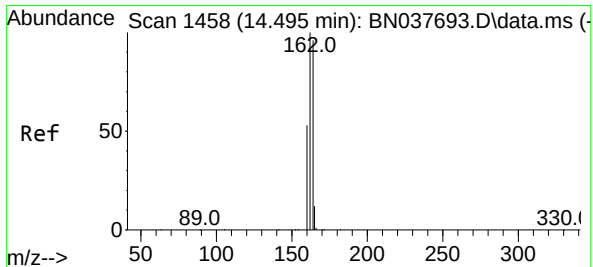
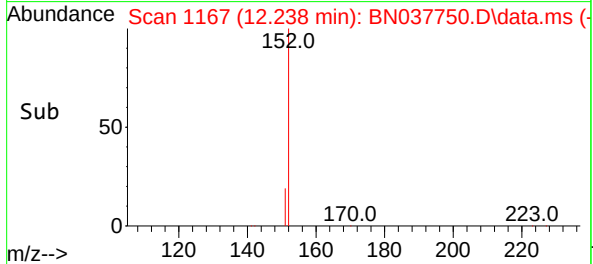
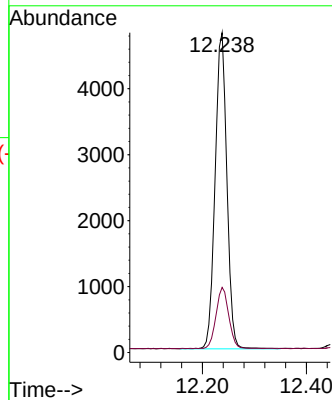
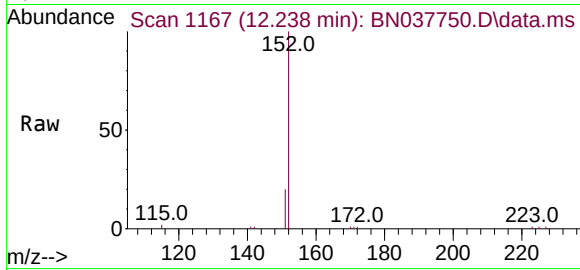




#11
2-Methylnaphthalene-d10
Concen: 0.317 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

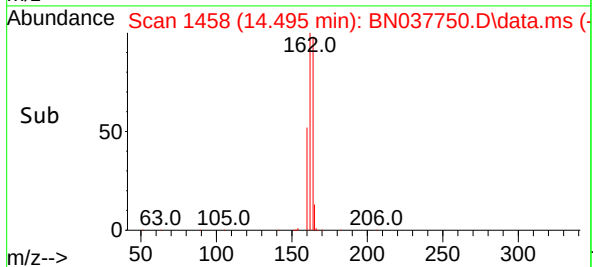
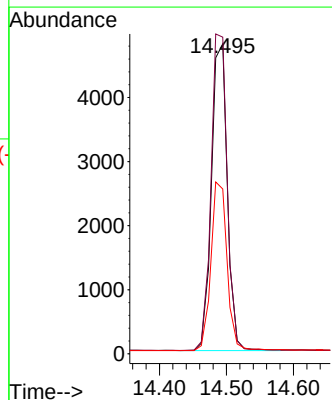
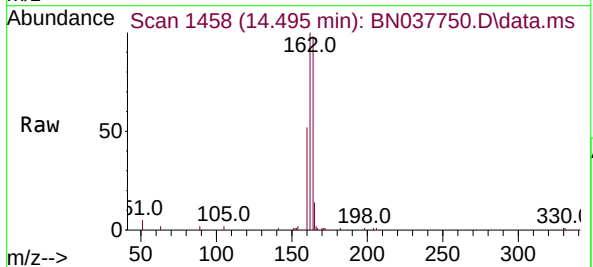
Instrument :
BNA_N
ClientSampleId :
MW179D1-20250908

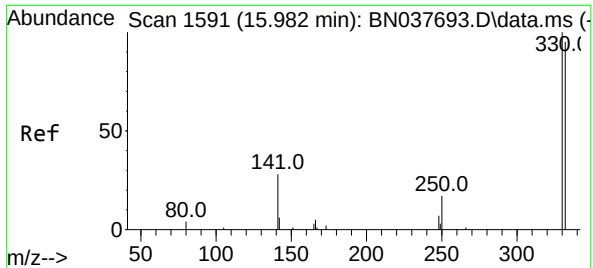
Tgt Ion:152 Resp: 7496
Ion Ratio Lower Upper
152 100
151 20.8 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

Tgt Ion:164 Resp: 7906
Ion Ratio Lower Upper
164 100
162 102.2 83.1 124.7
160 53.2 44.3 66.5

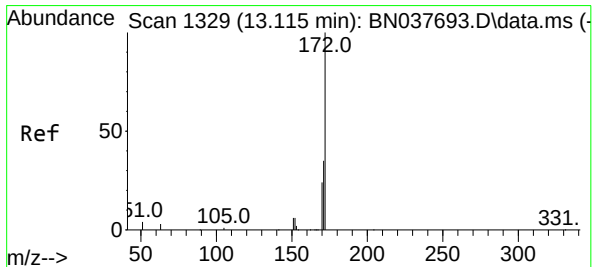
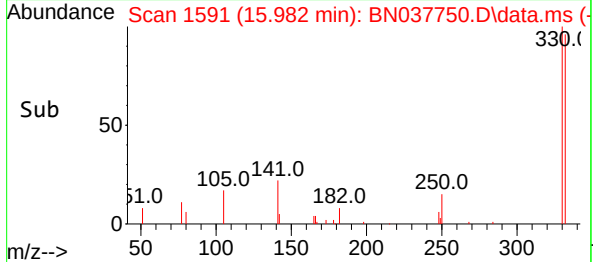
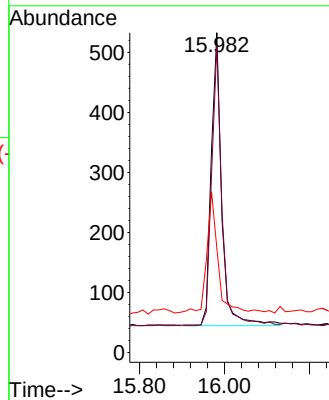
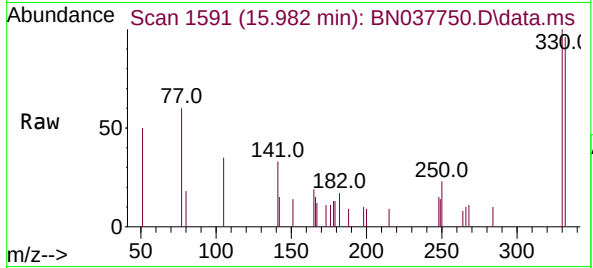




#14
2,4,6-Tribromophenol
Concen: 0.404 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

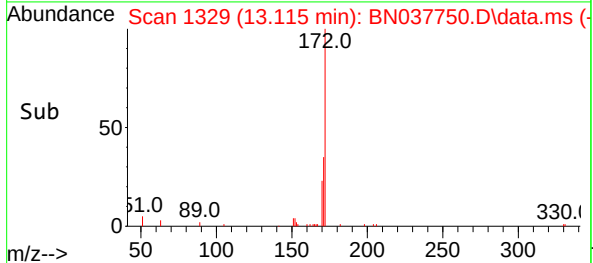
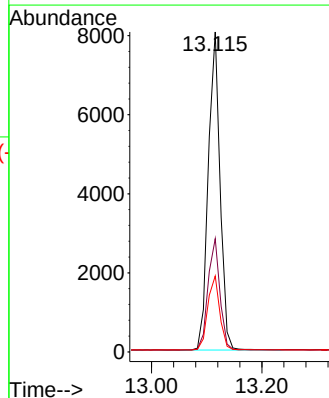
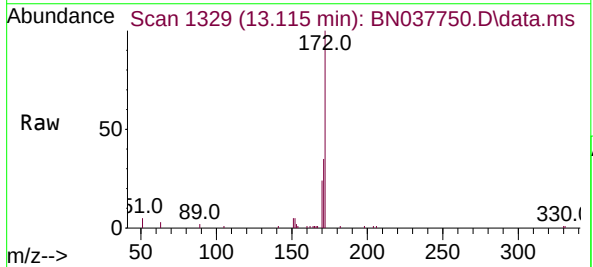
Instrument :
BNA_N
ClientSampleId :
MW179D1-20250908

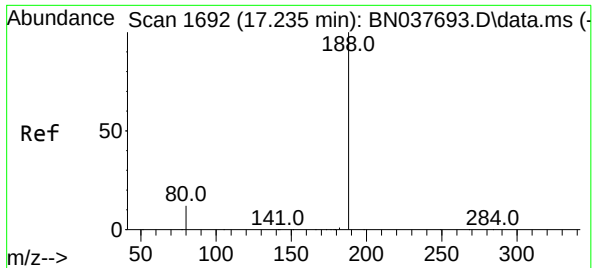
Tgt Ion:	330	Resp:	834
Ion	Ratio	Lower	Upper
330	100		
332	93.4	75.3	112.9
141	43.5	35.0	52.4



#15
2-Fluorobiphenyl
Concen: 0.359 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

Tgt Ion:	172	Resp:	11872
Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.6	43.0
170	23.7	19.8	29.8

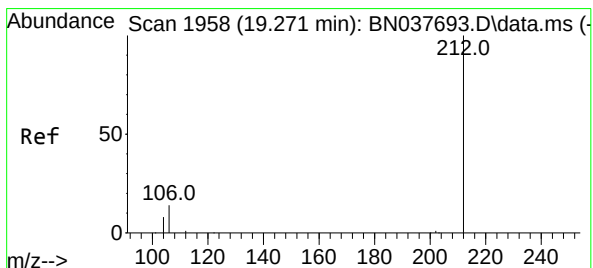
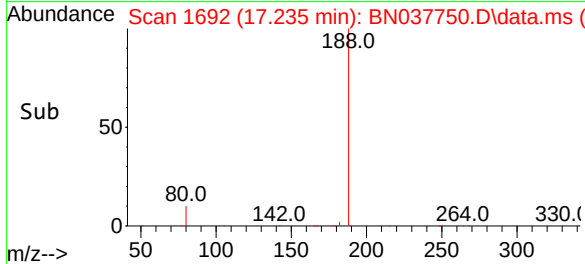
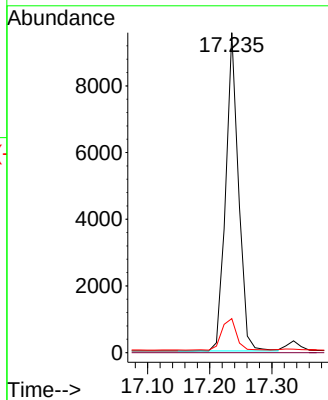
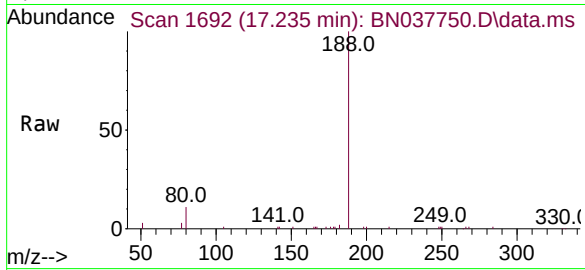




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

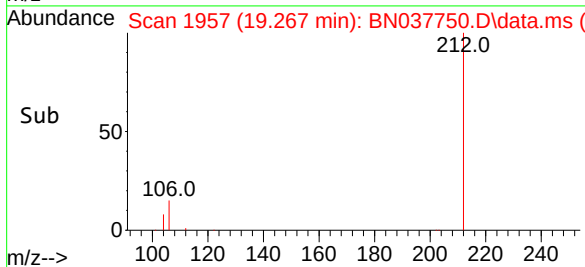
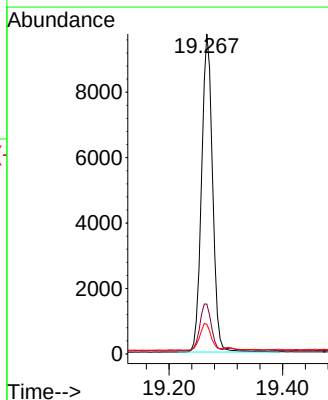
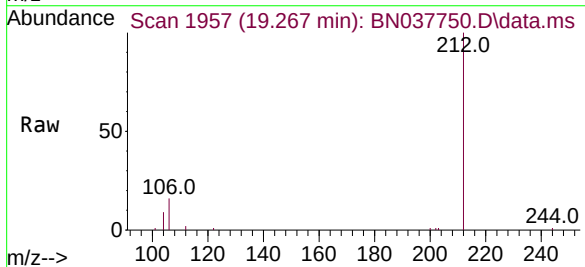
Instrument :
BNA_N
ClientSampleId :
MW179D1-20250908

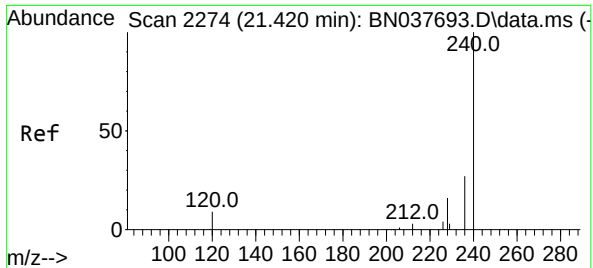
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.6	10.6	15.8



#27
Fluoranthene-d10
Concen: 0.379 ng
RT: 19.267 min Scan# 1957
Delta R.T. -0.005 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.4	12.2	18.2
104	8.4	6.9	10.3

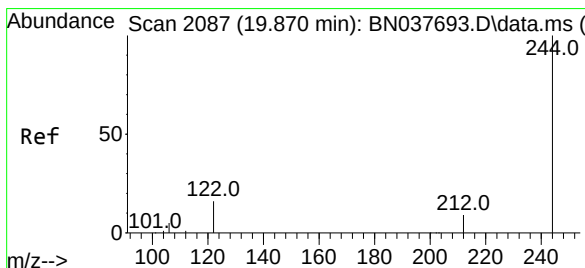
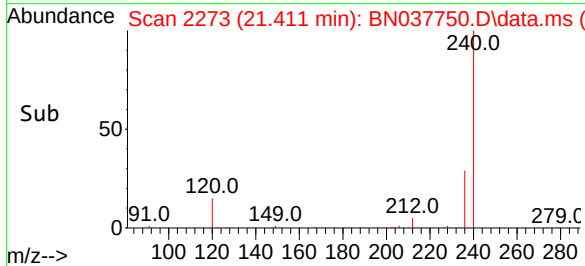
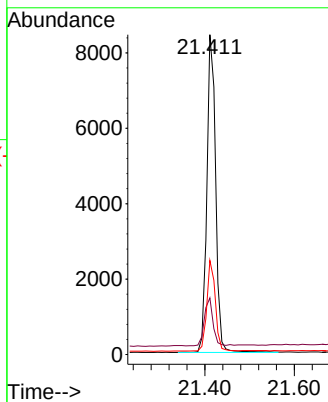
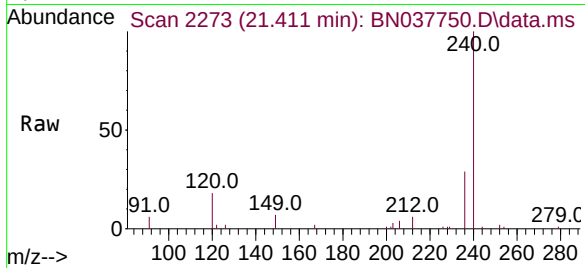




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

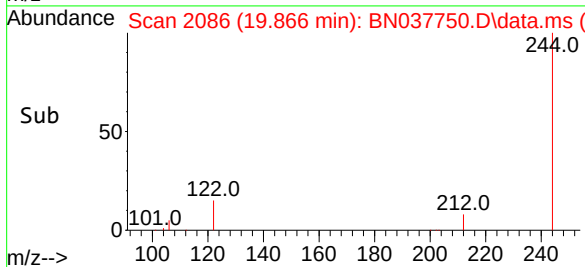
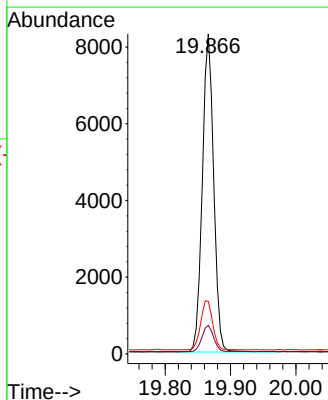
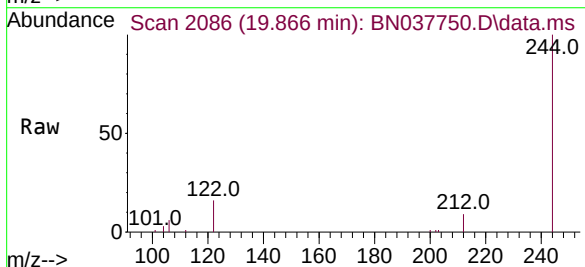
Instrument :
BNA_N
ClientSampleId :
MW179D1-20250908

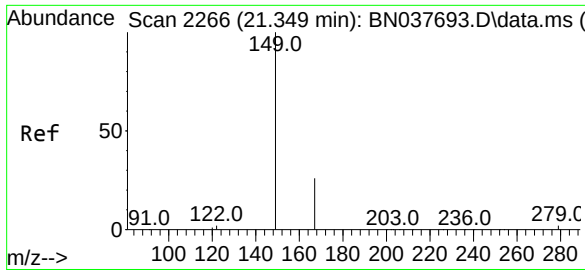
Tgt Ion:240 Resp: 11462
Ion Ratio Lower Upper
240 100
120 17.7 9.2 13.8#
236 29.4 22.6 33.8



#31
Terphenyl-d14
Concen: 0.429 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

Tgt Ion:244 Resp: 9983
Ion Ratio Lower Upper
244 100
212 8.9 7.5 11.3
122 16.4 13.2 19.8

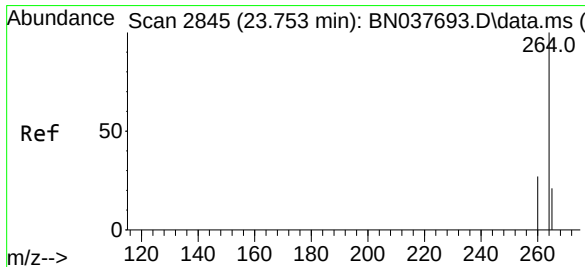
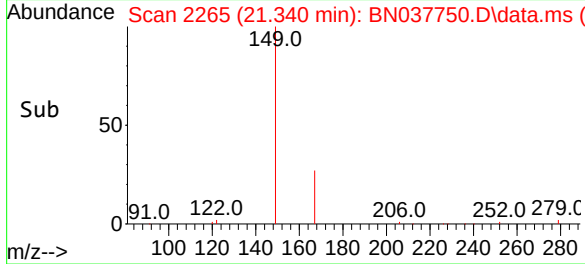
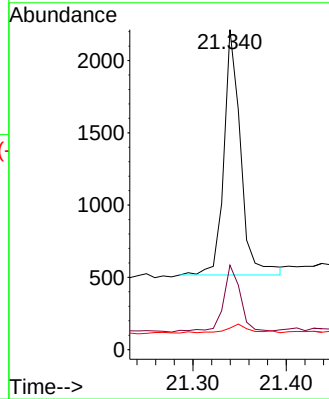
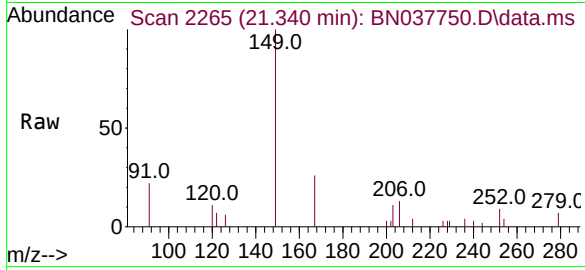




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.179 ng
RT: 21.340 min Scan# 2119
Delta R.T. -0.009 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

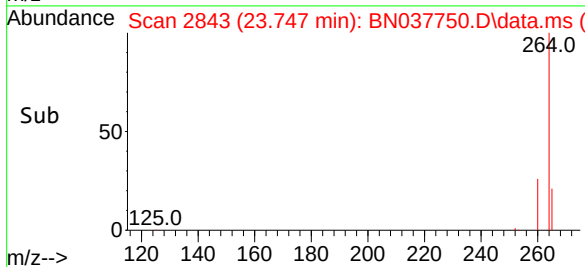
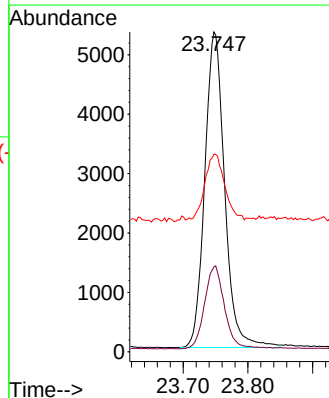
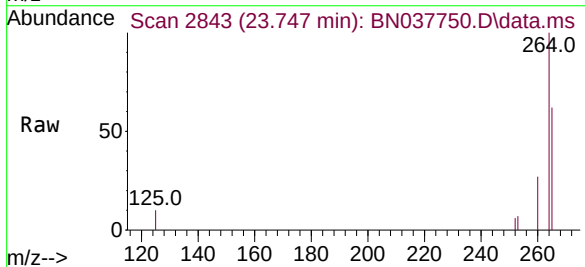
Instrument :
BNA_N
ClientSampleId :
MW179D1-20250908

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.0	20.8	31.2
279	4.6	3.3	4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.747 min Scan# 2843
Delta R.T. -0.006 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

Tgt Ion	Ratio	Lower	Upper
264	100		
260	26.6	21.8	32.8
265	61.8	39.4	59.2



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	MW203D2-20250909	SDG No.:	Q3095
Lab Sample ID:	Q3095-05	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
BN037742.D	1	09/15/25 10:15	09/17/25 12:38	PB169692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.85	M	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		84%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	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	7540	7.84				
1146-65-2	Naphthalene-d8	21000	10.648				
15067-26-2	Acenaphthene-d10	9820	14.494				
1517-22-2	Phenanthrene-d10	16800	17.235				
1719-03-5	Chrysene-d12	12700	21.411				
1520-96-3	Perylene-d12	12600	23.75				

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\BN091725\
 Data File : BN037742.D
 Acq On : 17 Sep 2025 12:38
 Operator : RC/JU
 Sample : Q3095-05
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW203D2-20250909

Quant Time: Sep 17 13:16:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

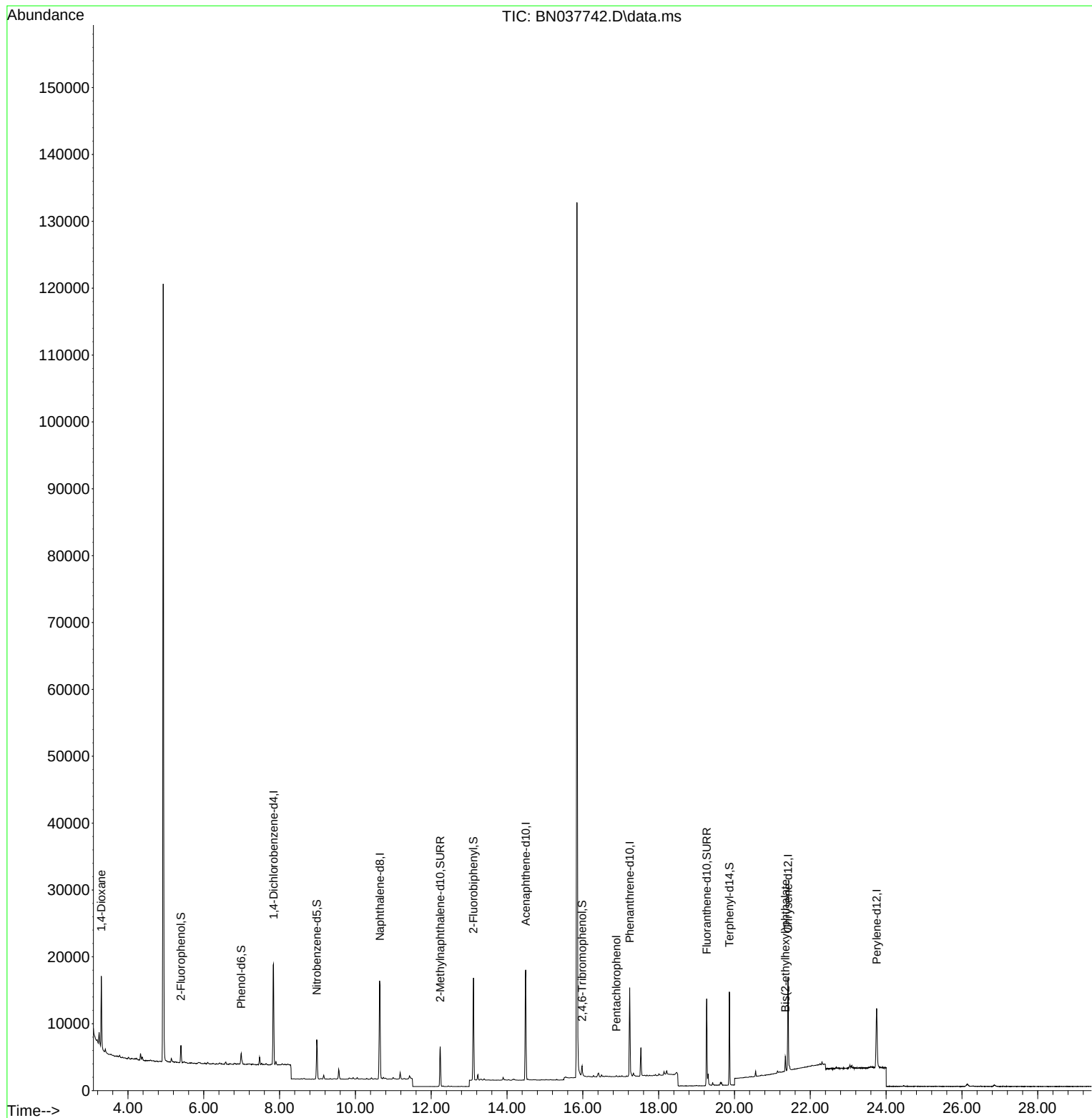
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	7535	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	20988	0.400	ng	# 0.00
13) Acenaphthene-d10	14.494	164	9821	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	16837	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	12718	0.400	ng	# 0.00
35) Perylene-d12	23.750	264	12632	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2083	0.120	ng	0.00
5) Phenol-d6	6.988	99	1575	0.070	ng	0.00
8) Nitrobenzene-d5	8.982	82	4648	0.303	ng	-0.01
11) 2-Methylnaphthalene-d10	12.238	152	8034	0.289	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	991	0.387	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	12659	0.308	ng	0.00
27) Fluoranthene-d10	19.266	212	14185	0.336	ng	0.00
31) Terphenyl-d14	19.866	244	12772	0.495	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	6702	0.854	ng	Qvalue 94
24) Pentachlorophenol	16.888	266	114	0.031	ng	# 88
34) Bis(2-ethylhexyl)phtha...	21.340	149	2491	0.189	ng	99

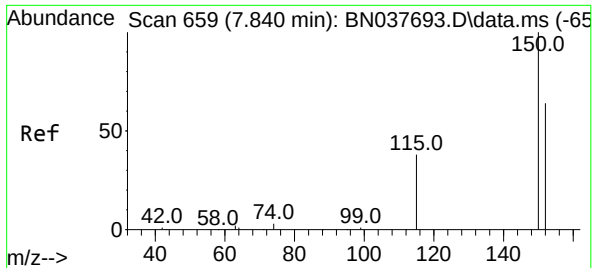
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037742.D
Acq On : 17 Sep 2025 12:38
Operator : RC/JU
Sample : Q3095-05
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909

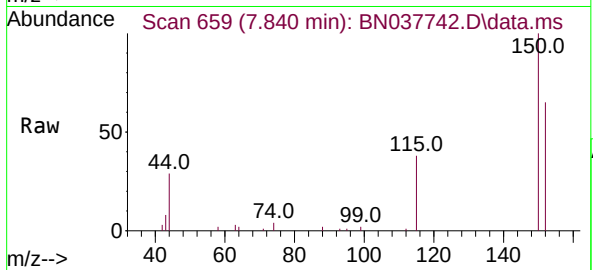
Quant Time: Sep 17 13:16:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



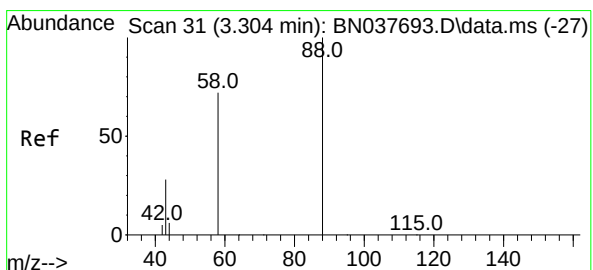
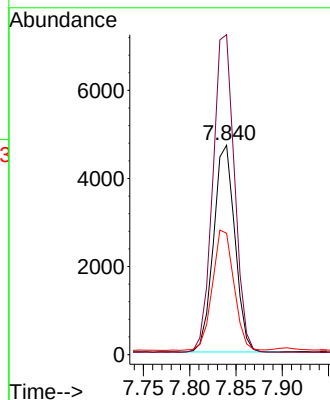
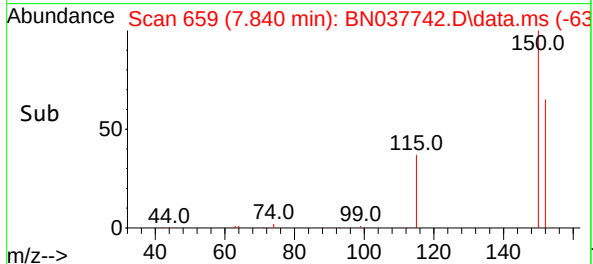


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909

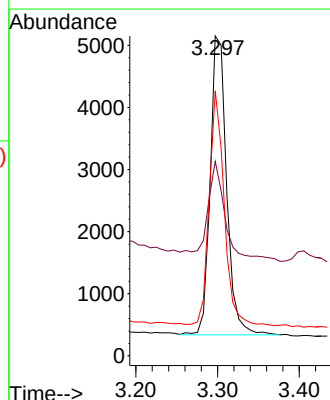
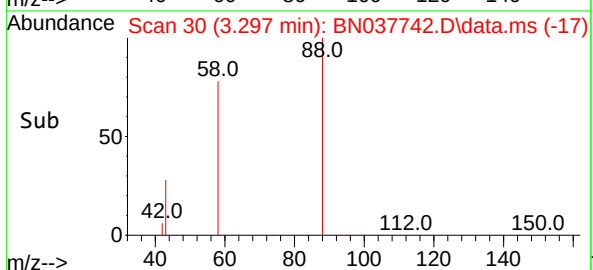
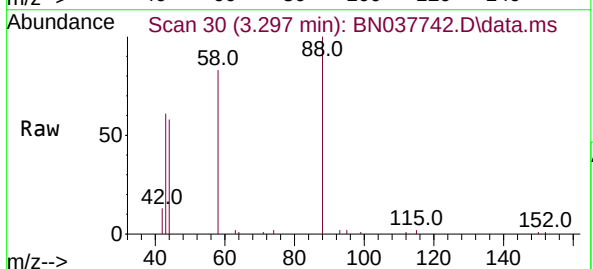


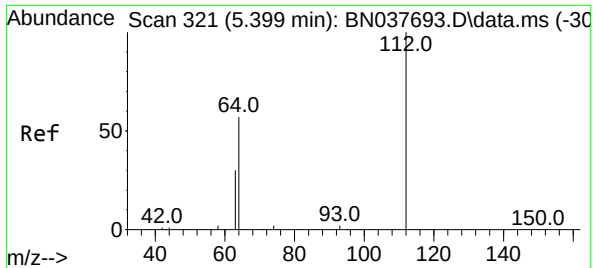
Tgt Ion:152 Resp: 7535
Ion Ratio Lower Upper
152 100
150 152.8 124.5 186.7
115 57.9 49.2 73.8



#2
1,4-Dioxane
Concen: 0.854 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

Tgt Ion: 88 Resp: 6702
Ion Ratio Lower Upper
88 100
43 36.2 26.8 40.2
58 72.0 61.9 92.9

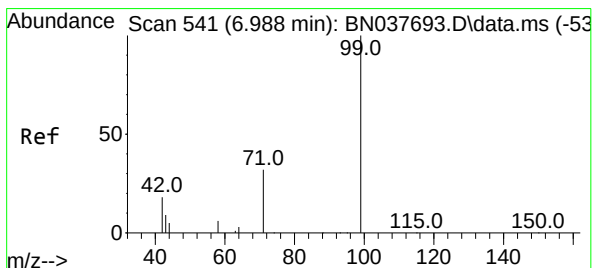
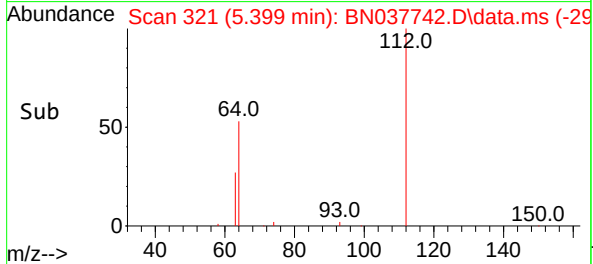
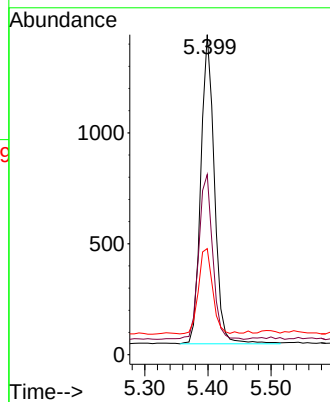
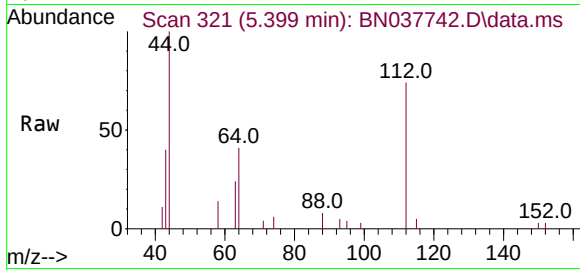




#4
2-Fluorophenol
Concen: 0.120 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

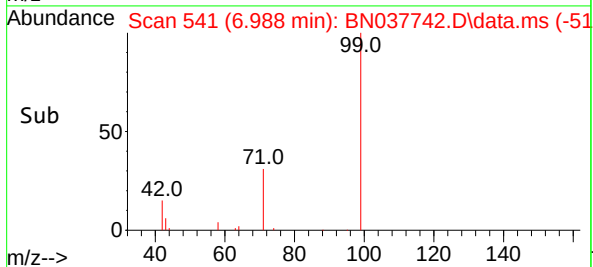
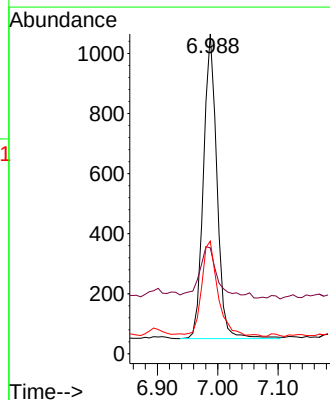
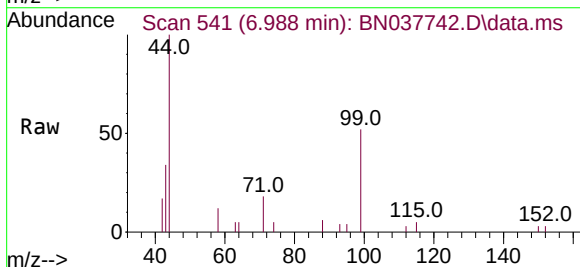
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909

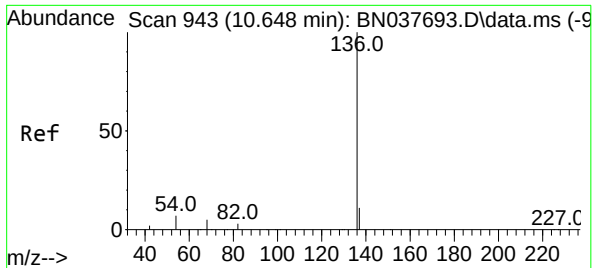
Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.4	44.9	67.3
63	28.4	24.7	37.1



#5
Phenol-d6
Concen: 0.070 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

Tgt Ion	Ratio	Lower	Upper
99	100		
42	23.1	16.6	24.8
71	37.5	26.7	40.1

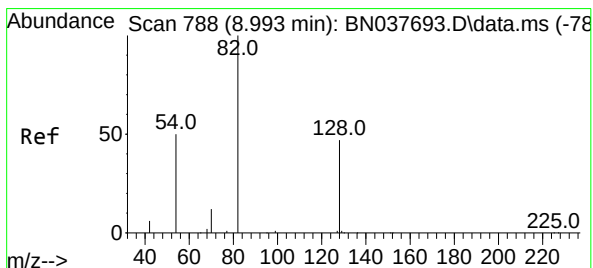
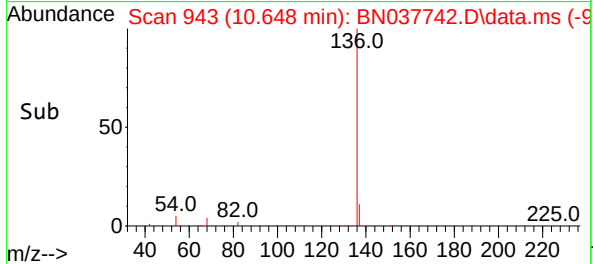
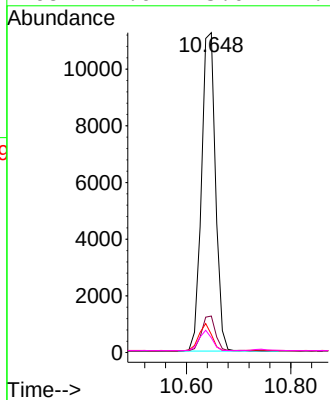
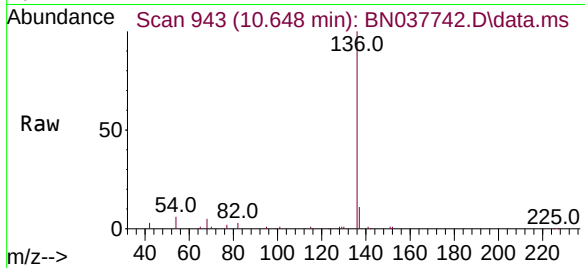




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

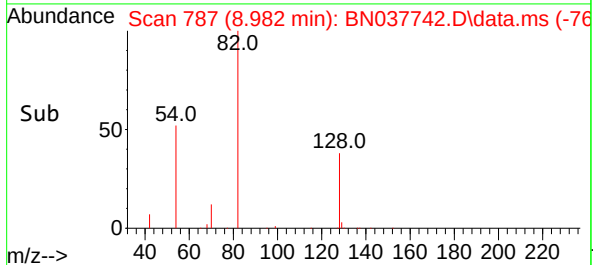
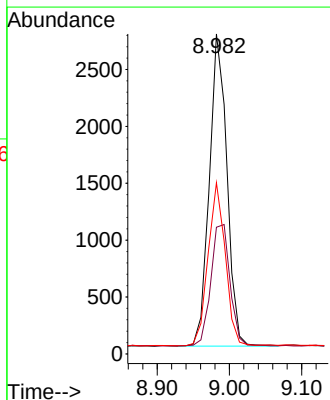
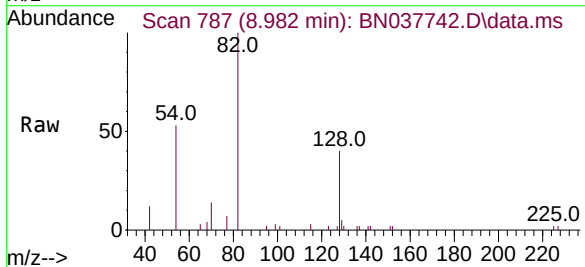
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909

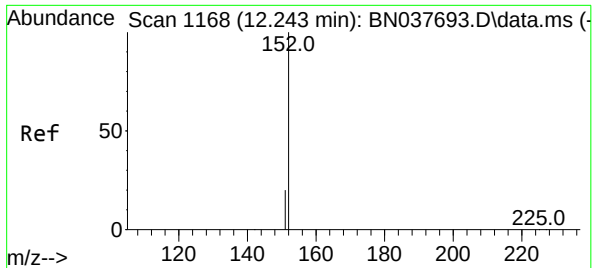
Tgt Ion:	136	Resp:	20988
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	5.7	6.3	9.5#
68	4.6	5.0	7.4#



#8
Nitrobenzene-d5
Concen: 0.303 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

Tgt Ion:	82	Resp:	4648
Ion	Ratio	Lower	Upper
82	100		
128	39.6	38.3	57.5
54	53.5	41.4	62.2

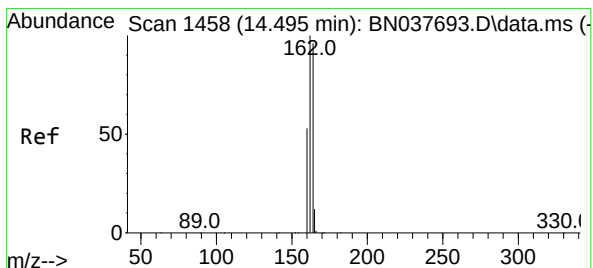
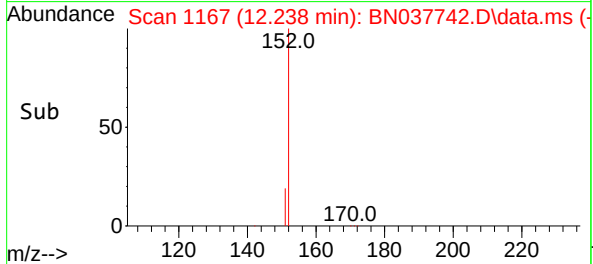
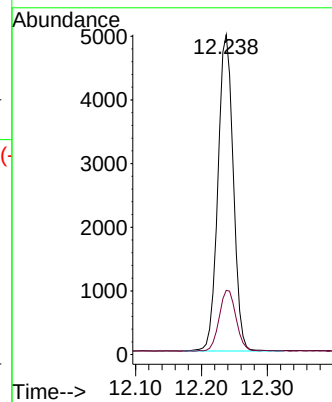
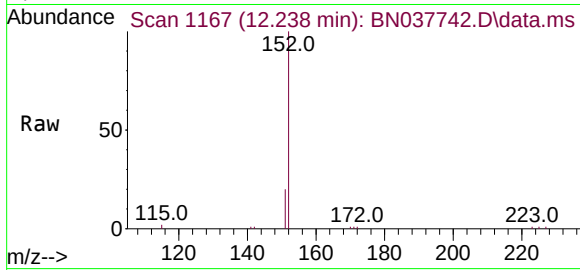




#11
2-Methylnaphthalene-d10
Concen: 0.289 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

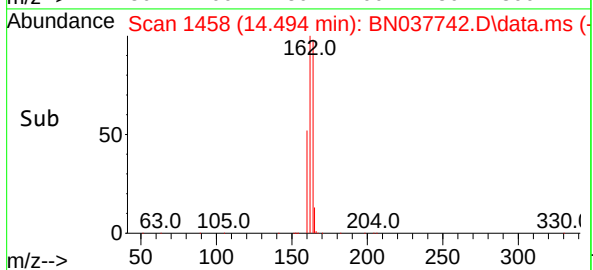
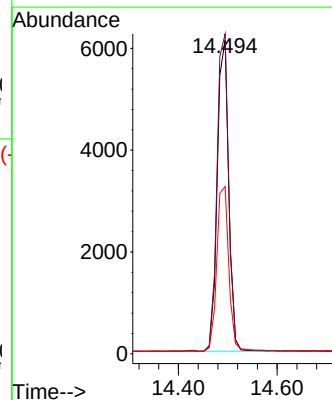
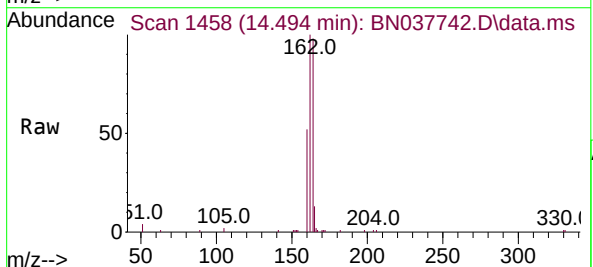
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909

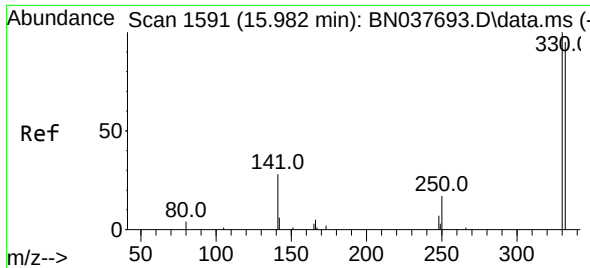
Tgt Ion:152 Resp: 8034
Ion Ratio Lower Upper
152 100
151 21.0 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

Tgt Ion:164 Resp: 9821
Ion Ratio Lower Upper
164 100
162 102.0 83.1 124.7
160 53.3 44.3 66.5

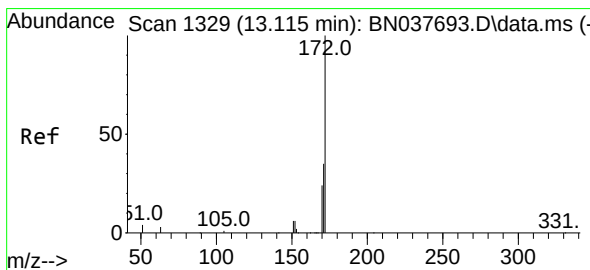
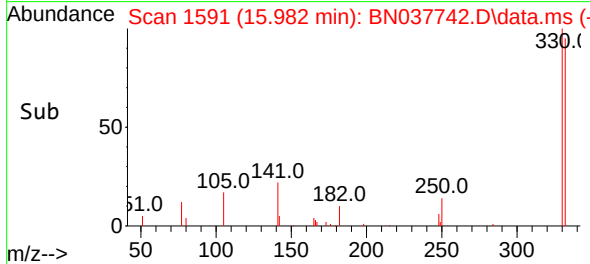
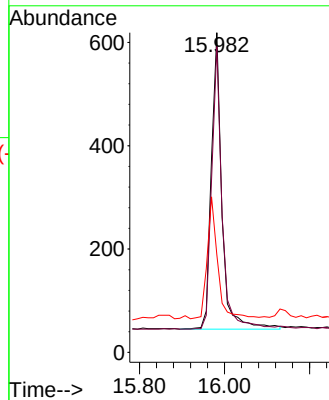
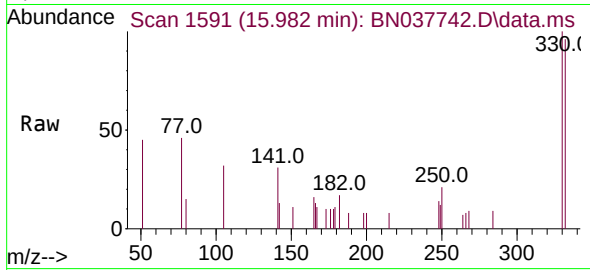




#14
2,4,6-Tribromophenol
Concen: 0.387 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

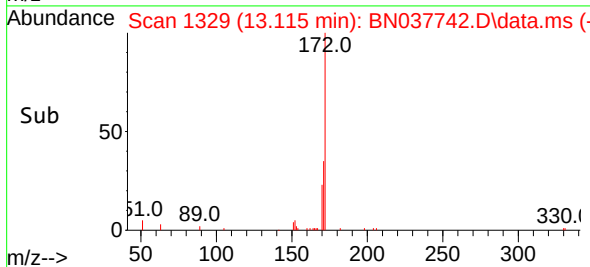
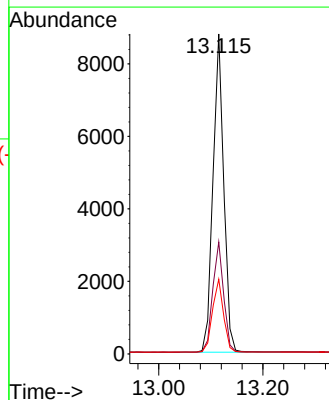
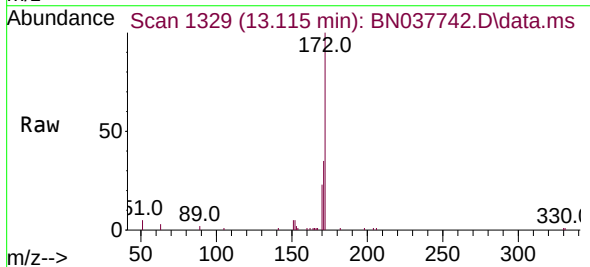
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909

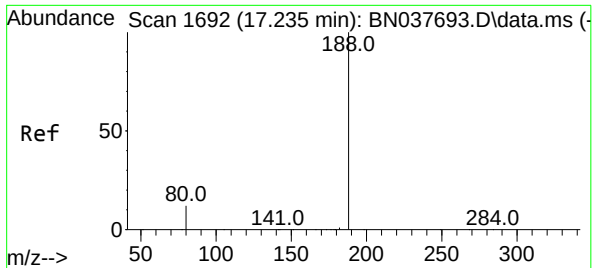
Tgt Ion	330	Resp	991
Ion	Ratio	Lower	Upper
330	100		
332	93.6	75.3	112.9
141	40.7	35.0	52.4



#15
2-Fluorobiphenyl
Concen: 0.308 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

Tgt Ion	172	Resp	12659
Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.6	43.0
170	23.3	19.8	29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037742.D

Acq: 17 Sep 2025 12:38

Instrument :

BNA_N

ClientSampleId :

MW203D2-20250909

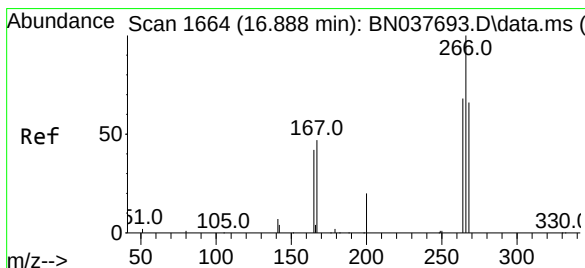
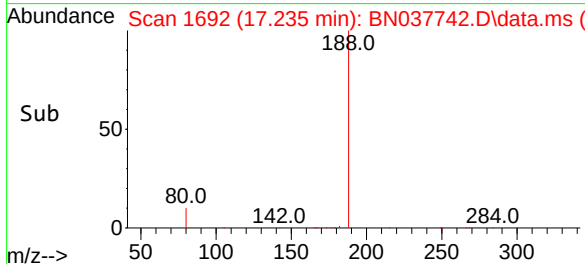
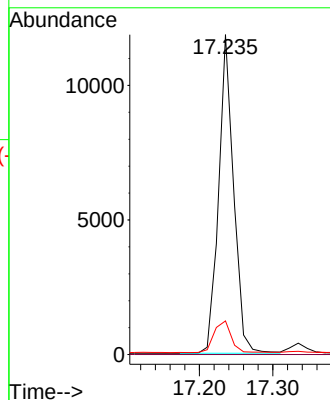
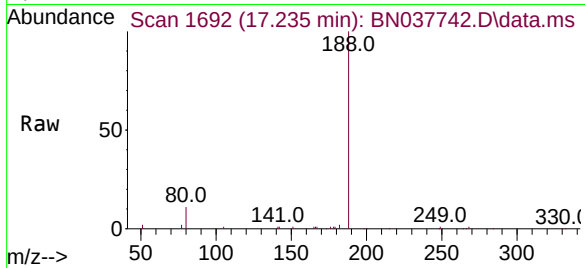
Tgt Ion:188 Resp: 16837

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.5 10.6 15.8#



#24

Pentachlorophenol

Concen: 0.031 ng

RT: 16.888 min Scan# 1664

Delta R.T. -0.000 min

Lab File: BN037742.D

Acq: 17 Sep 2025 12:38

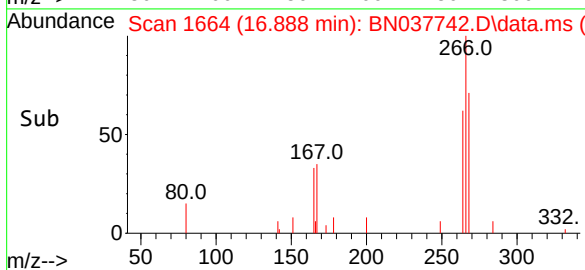
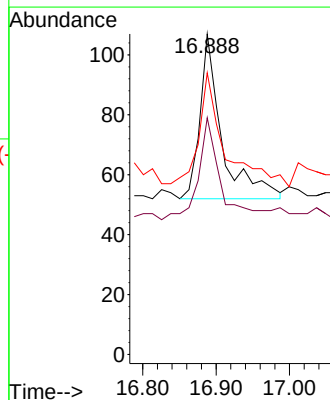
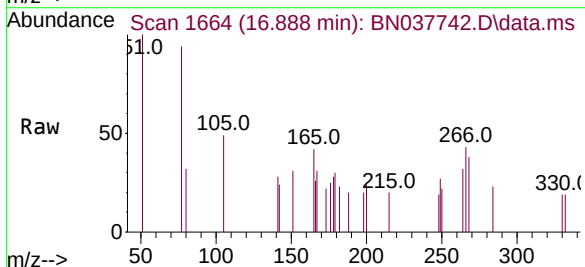
Tgt Ion:266 Resp: 114

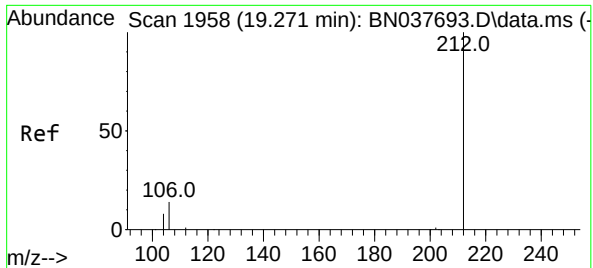
Ion Ratio Lower Upper

266 100

264 61.4 51.6 77.4

268 81.6 53.2 79.8#





#27

Fluoranthene-d10

Concen: 0.336 ng

RT: 19.266 min Scan# 19

Delta R.T. -0.005 min

Lab File: BN037742.D

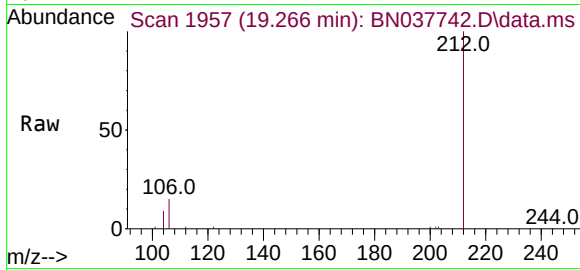
Acq: 17 Sep 2025 12:38

Instrument :

BNA_N

ClientSampleId :

MW203D2-20250909



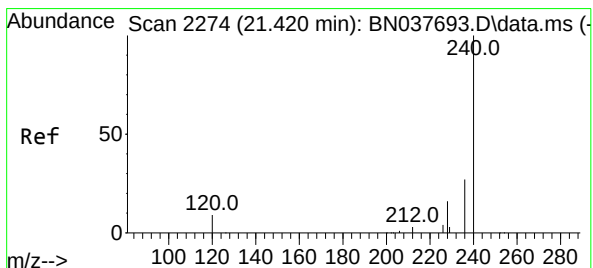
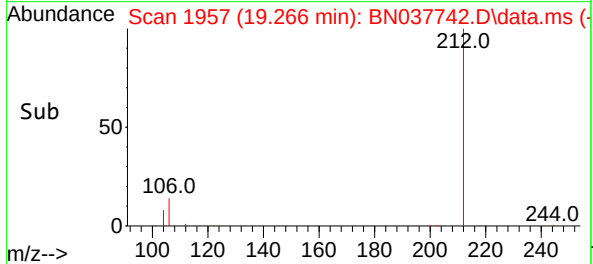
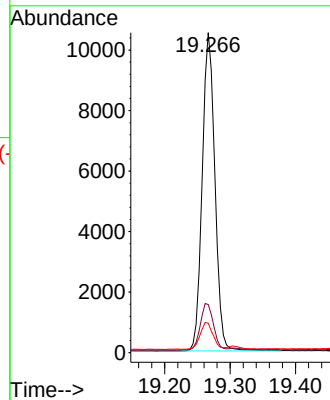
Tgt Ion:212 Resp: 14185

Ion Ratio Lower Upper

212 100

106 15.0 12.2 18.2

104 8.6 6.9 10.3



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.411 min Scan# 2273

Delta R.T. -0.009 min

Lab File: BN037742.D

Acq: 17 Sep 2025 12:38

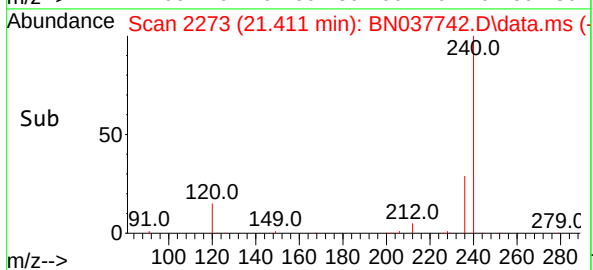
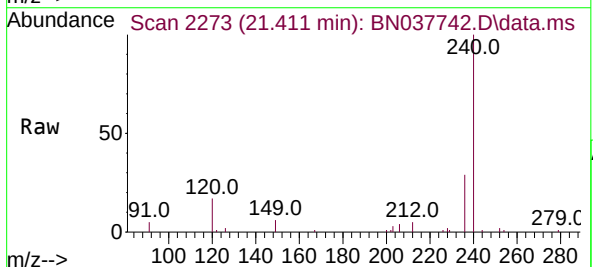
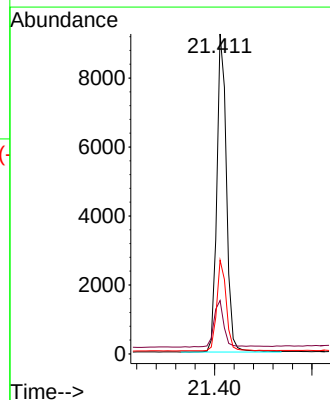
Tgt Ion:240 Resp: 12718

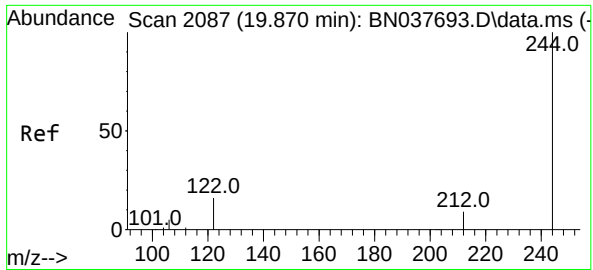
Ion Ratio Lower Upper

240 100

120 16.7 9.2 13.8

236 29.3 22.6 33.8

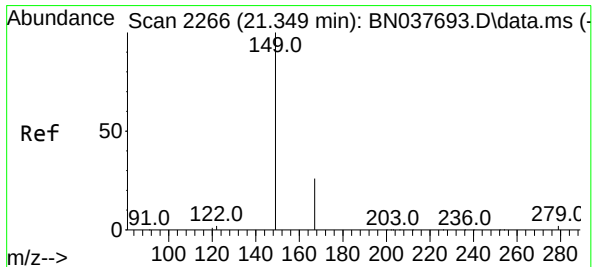
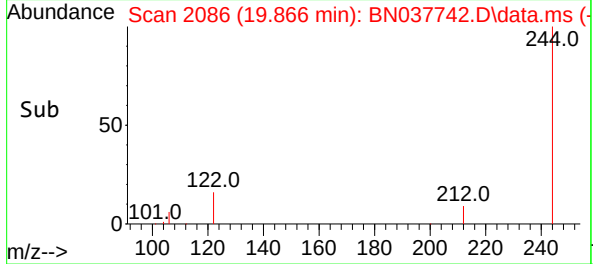
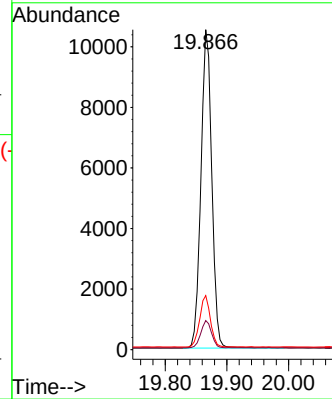
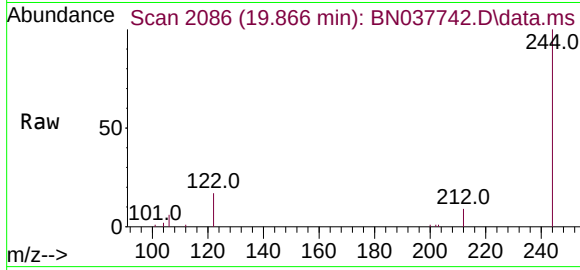




#31
Terphenyl-d14
Concen: 0.495 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

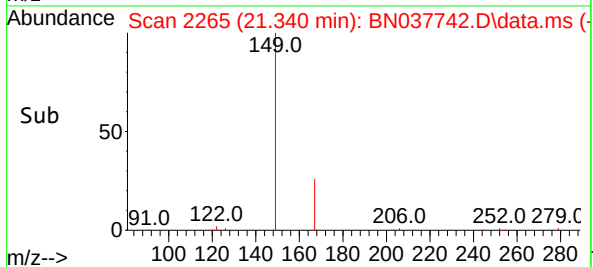
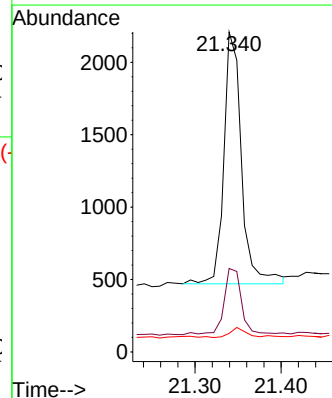
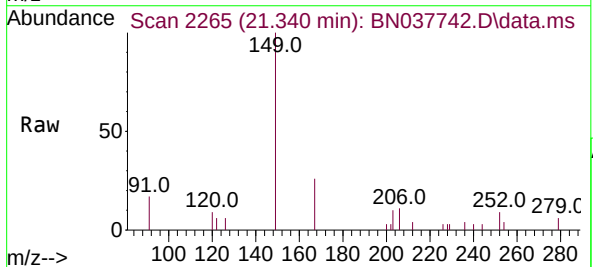
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909

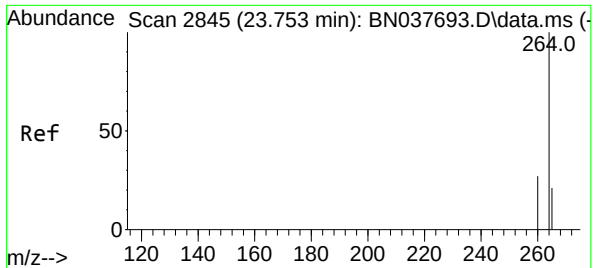
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.1	7.5	11.3
122	16.9	13.2	19.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.189 ng
RT: 21.340 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.2	20.8	31.2
279	3.6	3.3	4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.750 min Scan# 2845

Delta R.T. -0.003 min

Lab File: BN037742.D

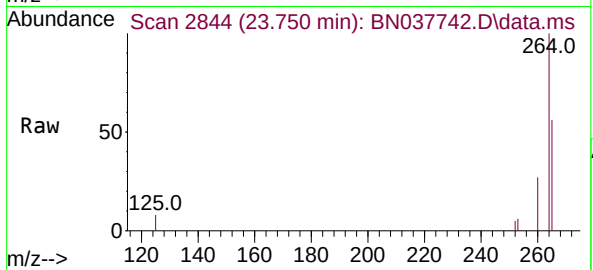
Acq: 17 Sep 2025 12:38

Instrument :

BNA_N

ClientSampleId :

MW203D2-20250909



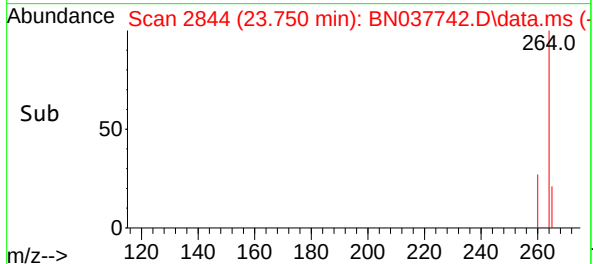
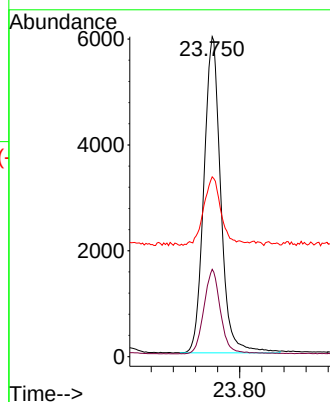
Tgt Ion:264 Resp: 12632

Ion Ratio Lower Upper

264 100

260 27.3 21.8 32.8

265 56.2 39.4 59.2



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	MW203D1-20250909	SDG No.:	Q3095
Lab Sample ID:	Q3095-08	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
BN037751.D	1	09/15/25 10:15	09/17/25 18:13	PB169692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.95		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		92%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		84%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		117%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6740	7.84				
1146-65-2	Naphthalene-d8	18300	10.637				
15067-26-2	Acenaphthene-d10	8160	14.495				
1517-22-2	Phenanthrene-d10	14500	17.235				
1719-03-5	Chrysene-d12	12300	21.411				
1520-96-3	Perylene-d12	12300	23.747				

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\BN091725\
 Data File : BN037751.D
 Acq On : 17 Sep 2025 18:13
 Operator : RC/JU
 Sample : Q3095-08
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW203D1-20250909

Quant Time: Sep 17 18:37:44 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

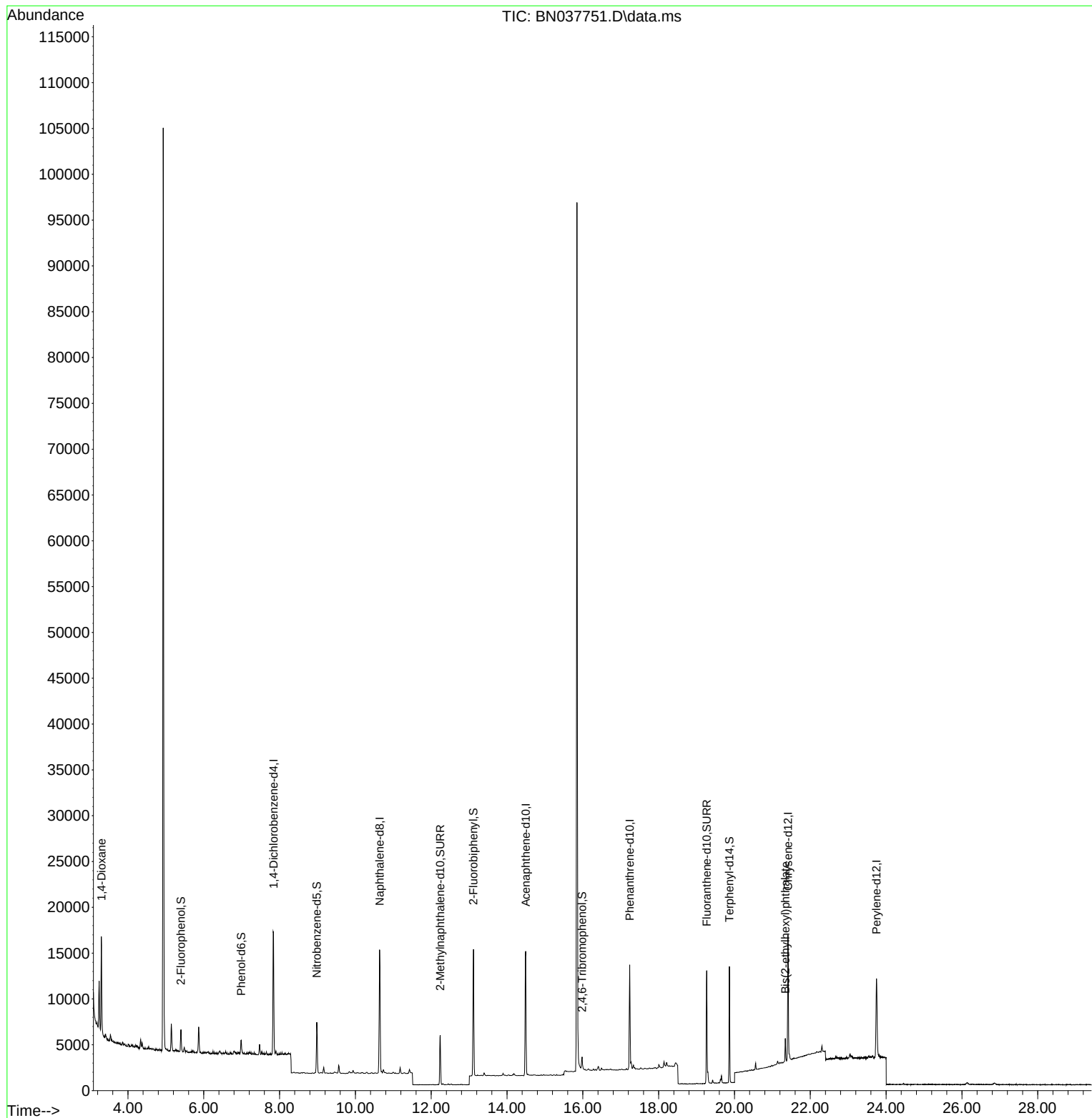
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	7.840	152	6737	0.400 ng	0.00
7) Naphthalene-d8	10.637	136	18255	0.400 ng	-0.01
13) Acenaphthene-d10	14.495	164	8162	0.400 ng	0.00
19) Phenanthrene-d10	17.235	188	14474	0.400 ng	# 0.00
29) Chrysene-d12	21.411	240	12341	0.400 ng	# 0.00
35) Perylene-d12	23.747	264	12297	0.400 ng	# 0.00
System Monitoring Compounds					
4) 2-Fluorophenol	5.399	112	1900	0.123 ng	0.00
5) Phenol-d6	6.988	99	1423	0.071 ng	0.00
8) Nitrobenzene-d5	8.982	82	4307	0.323 ng	-0.01
11) 2-Methylnaphthalene-d10	12.238	152	7260	0.300 ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	850	0.399 ng	0.00
15) 2-Fluorobiphenyl	13.115	172	11534	0.338 ng	0.00
27) Fluoranthene-d10	19.267	212	13393	0.369 ng	0.00
31) Terphenyl-d14	19.866	244	11743	0.469 ng	0.00
Target Compounds					
2) 1,4-Dioxane	3.304	88	6666	0.950 ng	96
34) Bis(2-ethylhexyl)phtha...	21.340	149	2537	0.199 ng	98

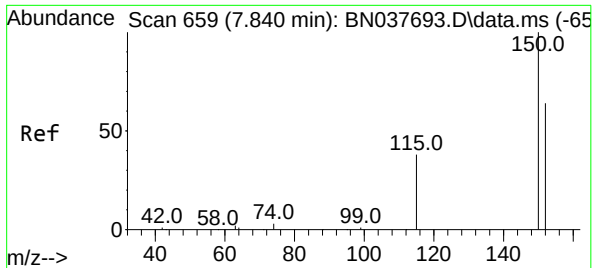
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037751.D
Acq On : 17 Sep 2025 18:13
Operator : RC/JU
Sample : Q3095-08
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW203D1-20250909

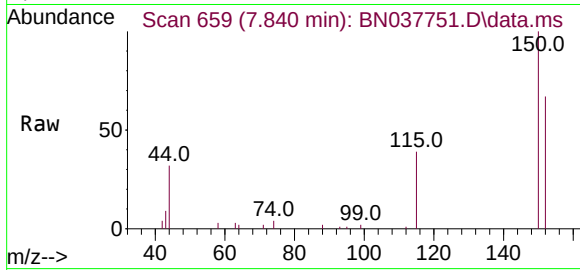
Quant Time: Sep 17 18:37:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



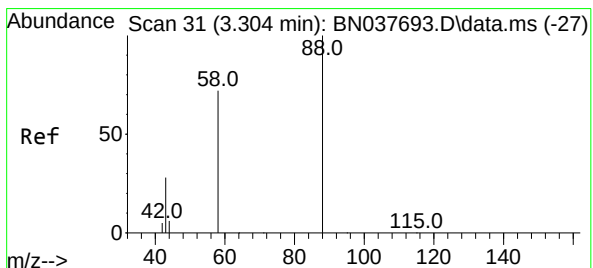
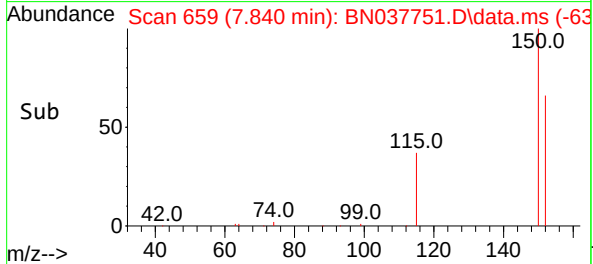
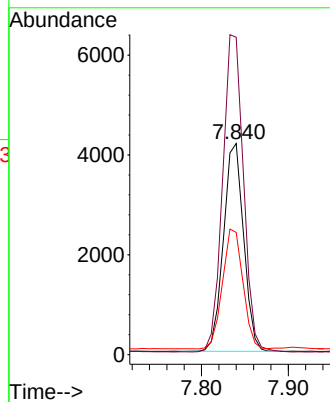


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

Instrument :
BNA_N
ClientSampleId :
MW203D1-20250909

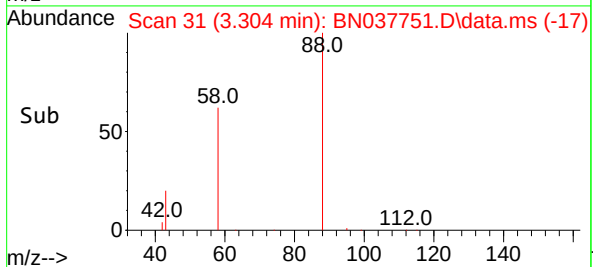
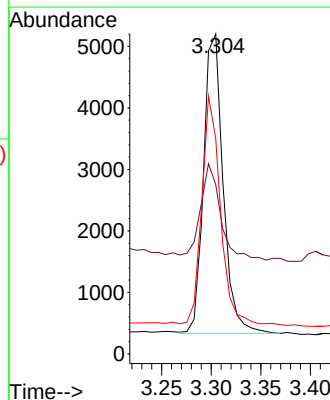
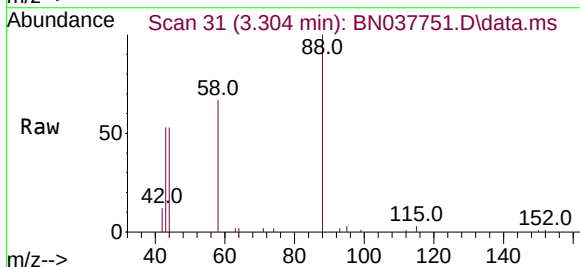


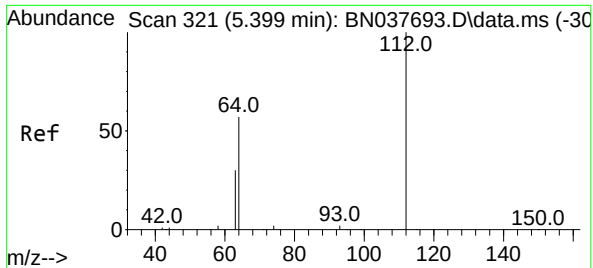
Tgt Ion:152 Resp: 6737
Ion Ratio Lower Upper
152 100
150 150.3 124.5 186.7
115 57.9 49.2 73.8



#2
1,4-Dioxane
Concen: 0.950 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

Tgt Ion: 88 Resp: 6666
Ion Ratio Lower Upper
88 100
43 35.2 26.8 40.2
58 73.5 61.9 92.9

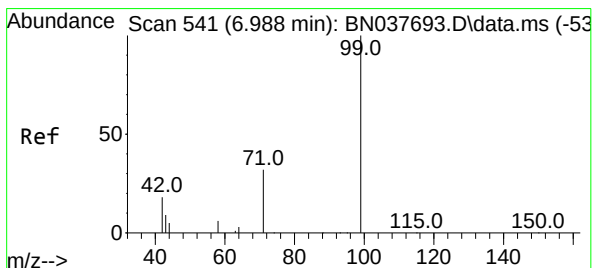
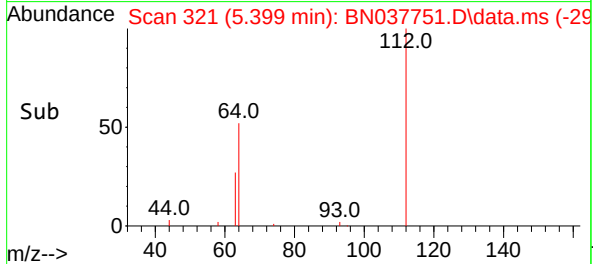
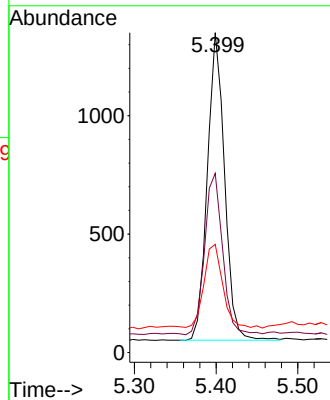
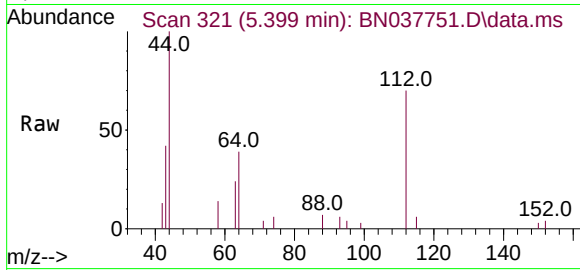




#4
2-Fluorophenol
Concen: 0.123 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

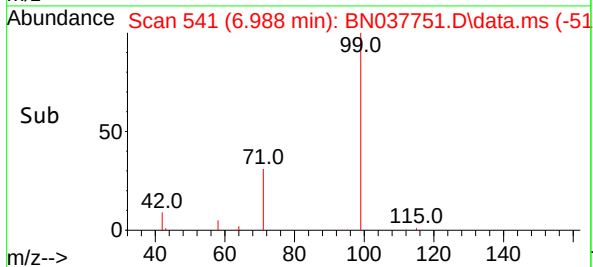
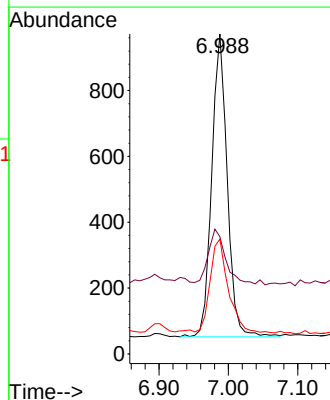
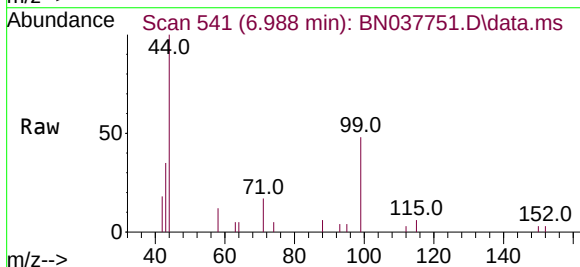
Instrument :
BNA_N
ClientSampleId :
MW203D1-20250909

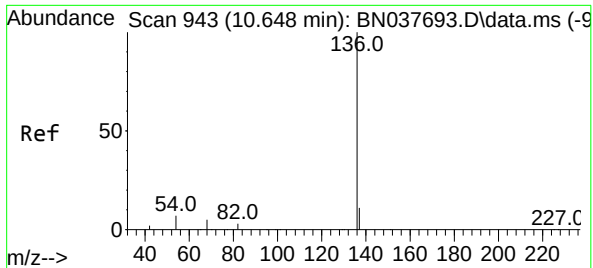
Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.9	44.9	67.3
63	29.7	24.7	37.1



#5
Phenol-d6
Concen: 0.071 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

Tgt Ion	Ratio	Lower	Upper
99	100		
42	19.7	16.6	24.8
71	37.2	26.7	40.1

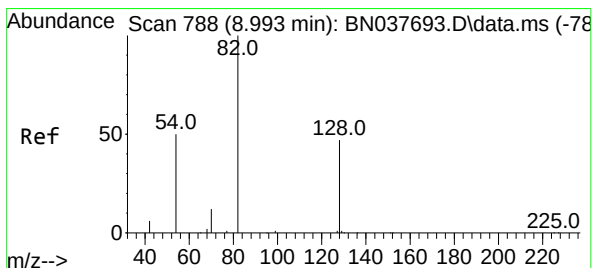
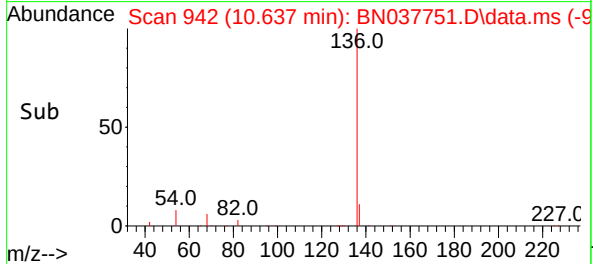
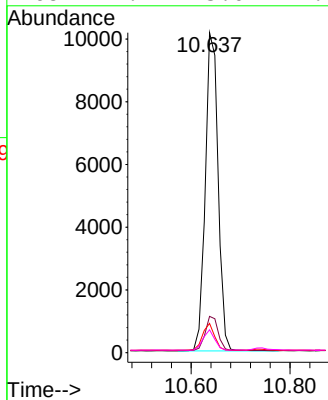
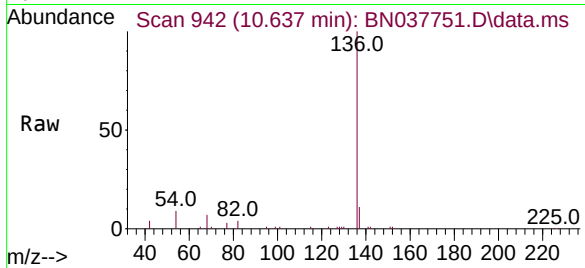




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

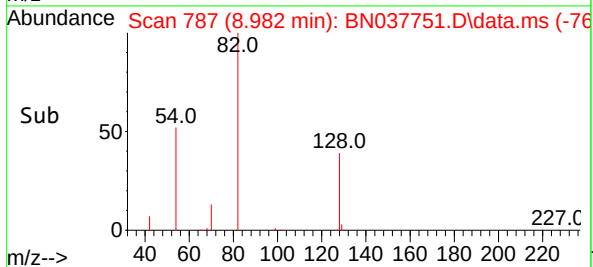
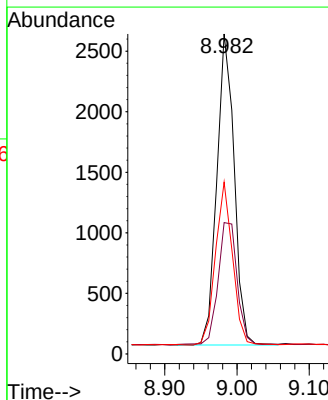
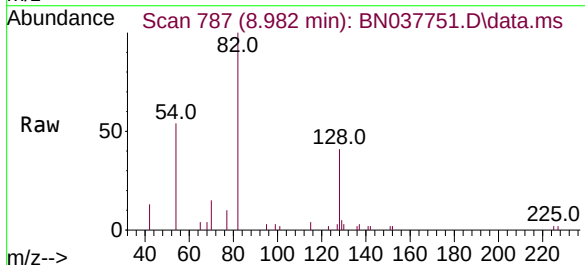
Instrument :
BNA_N
ClientSampleId :
MW203D1-20250909

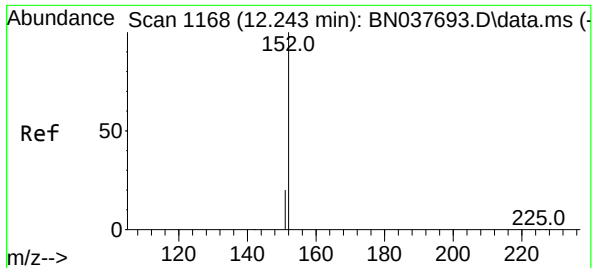
Tgt Ion:	136	Resp:	18255
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	9.1	6.3	9.5
68	7.1	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.323 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

Tgt Ion:	82	Resp:	4307
Ion	Ratio	Lower	Upper
82	100		
128	41.1	38.3	57.5
54	53.7	41.4	62.2

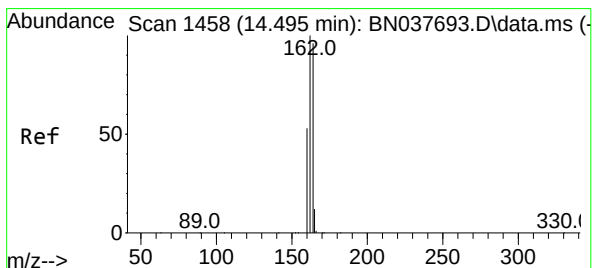
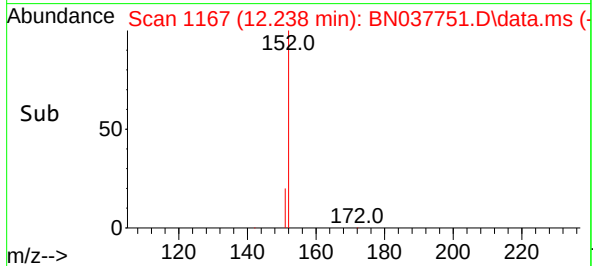
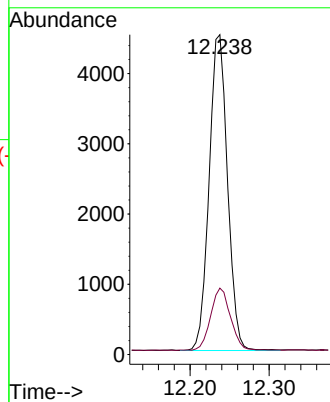
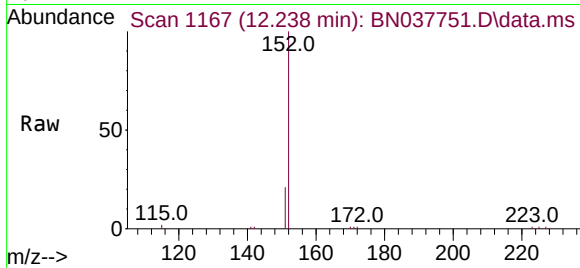




#11
2-Methylnaphthalene-d10
Concen: 0.300 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

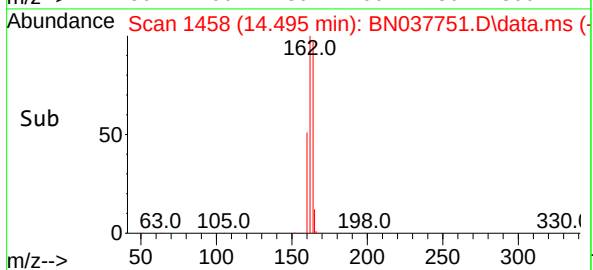
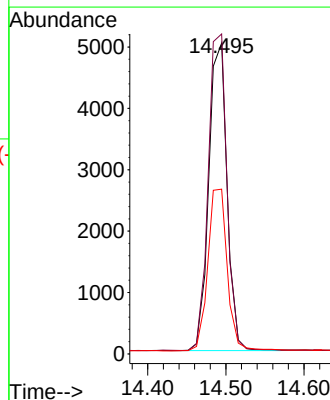
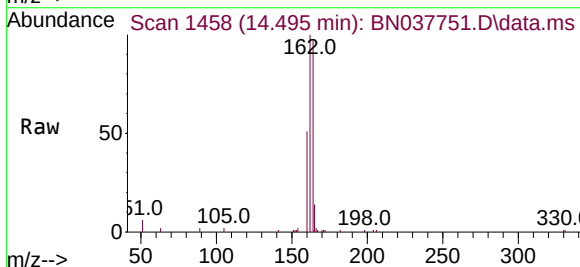
Instrument :
BNA_N
ClientSampleId :
MW203D1-20250909

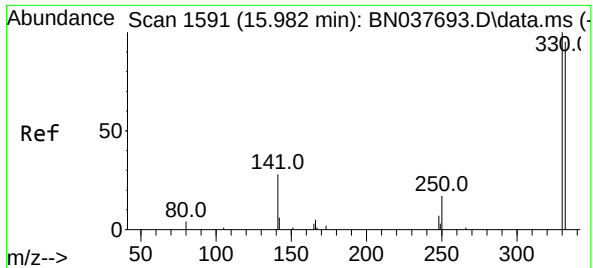
Tgt Ion:152 Resp: 7260
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

Tgt Ion:164 Resp: 8162
Ion Ratio Lower Upper
164 100
162 103.0 83.1 124.7
160 53.0 44.3 66.5

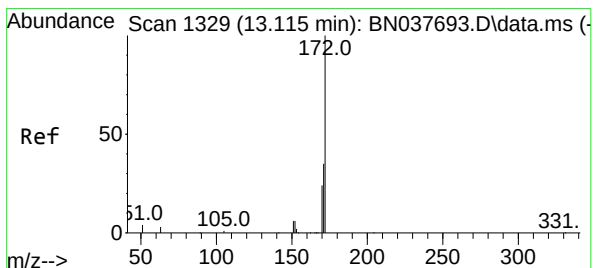
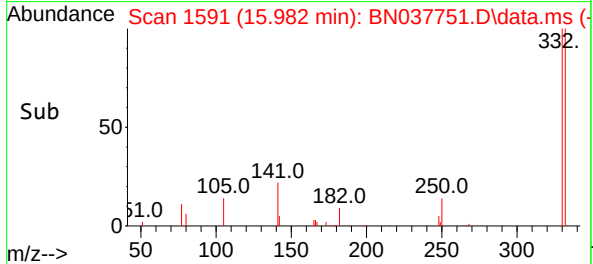
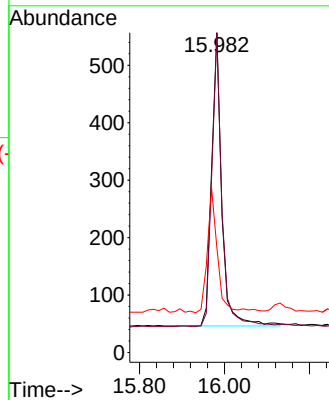
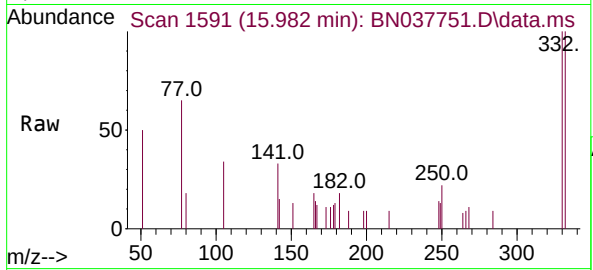




#14
2,4,6-Tribromophenol
Concen: 0.399 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

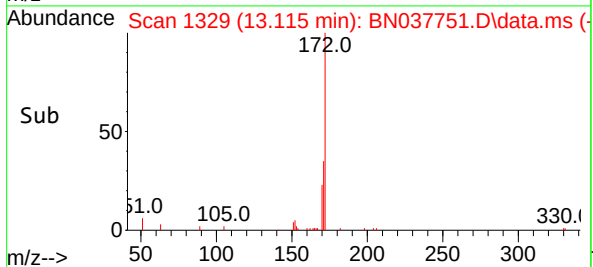
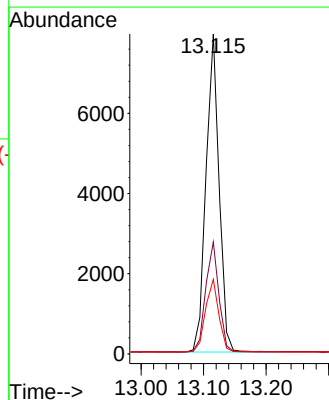
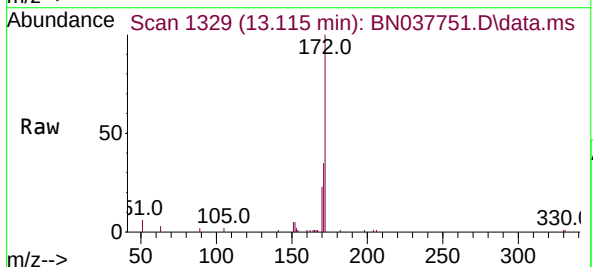
Instrument :
BNA_N
ClientSampleId :
MW203D1-20250909

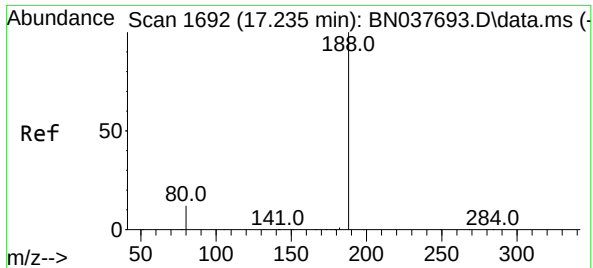
Tgt Ion	330	Resp	850
Ion Ratio	Lower	Upper	
330	100		
332	98.2	75.3	112.9
141	41.2	35.0	52.4



#15
2-Fluorobiphenyl
Concen: 0.338 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

Tgt Ion	172	Resp	11534
Ion Ratio	Lower	Upper	
172	100		
171	35.0	28.6	43.0
170	23.3	19.8	29.8

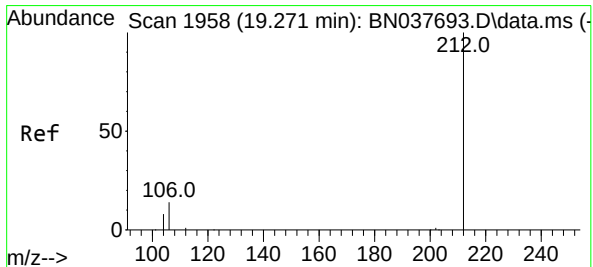
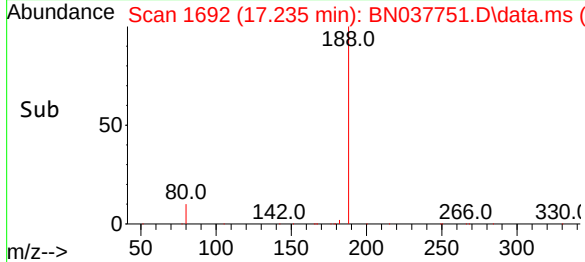
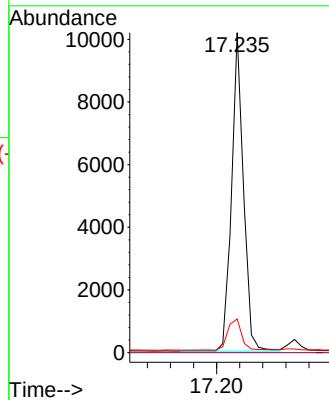
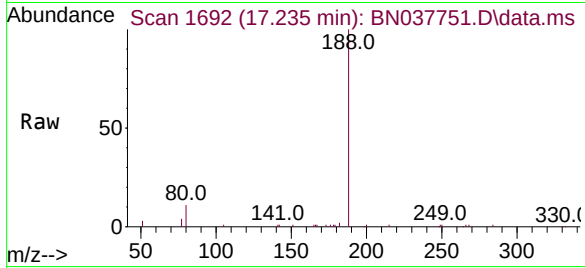




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

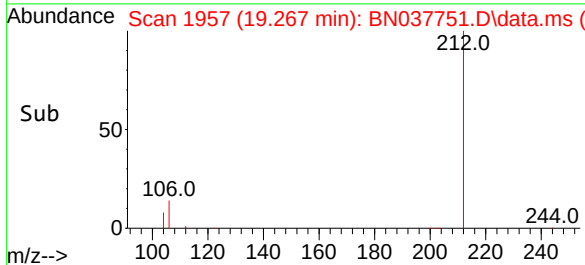
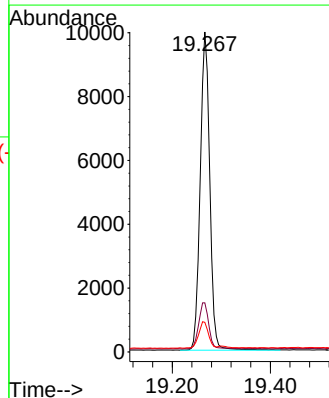
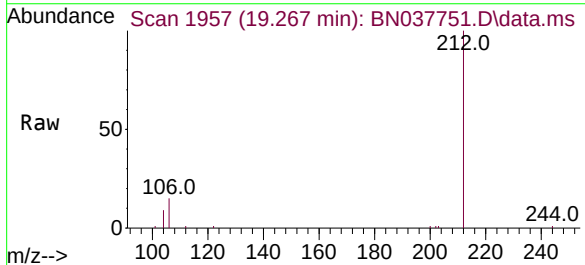
Instrument :
BNA_N
ClientSampleId :
MW203D1-20250909

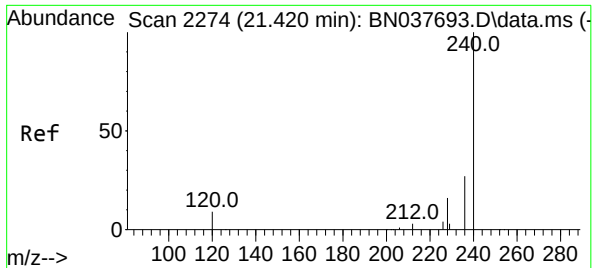
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.6	10.6	15.8



#27
Fluoranthene-d10
Concen: 0.369 ng
RT: 19.267 min Scan# 1957
Delta R.T. -0.005 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.6	12.2	18.2
104	8.5	6.9	10.3

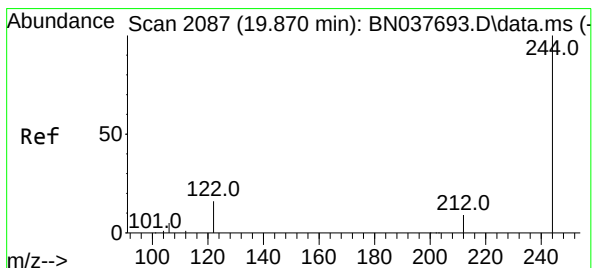
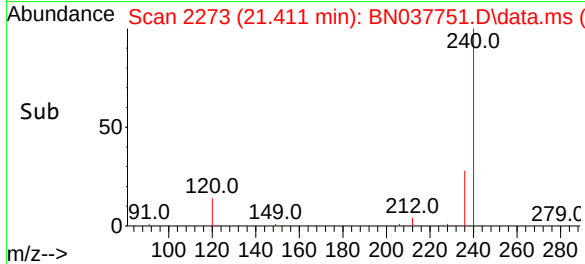
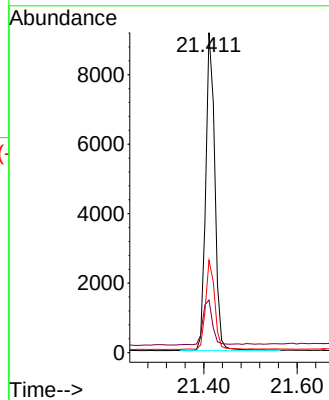
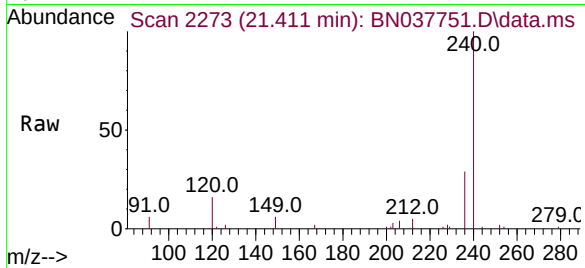




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

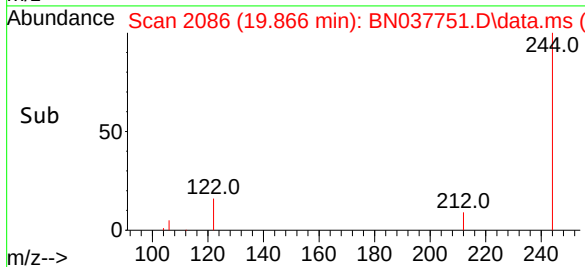
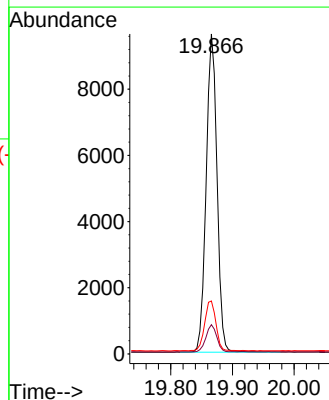
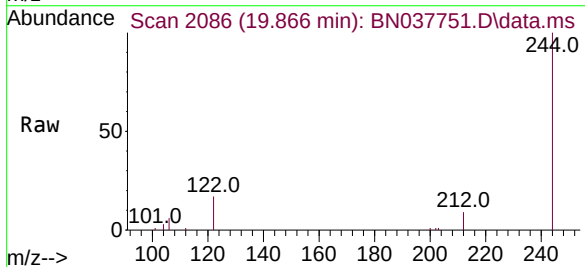
Instrument :
BNA_N
ClientSampleId :
MW203D1-20250909

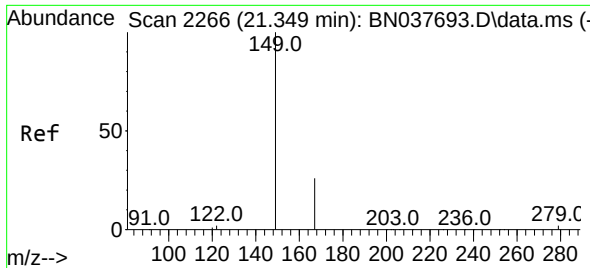
Tgt Ion:	240	Resp:	12341
Ion Ratio	Lower	Upper	
240	100		
120	16.4	9.2	13.8#
236	28.8	22.6	33.8



#31
Terphenyl-d14
Concen: 0.469 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

Tgt Ion:	244	Resp:	11743
Ion Ratio	Lower	Upper	
244	100		
212	9.1	7.5	11.3
122	16.5	13.2	19.8

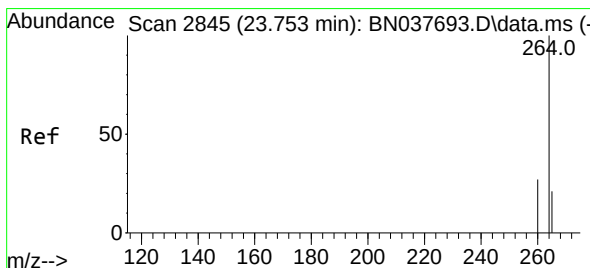
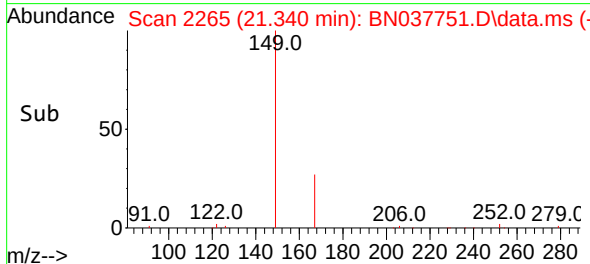
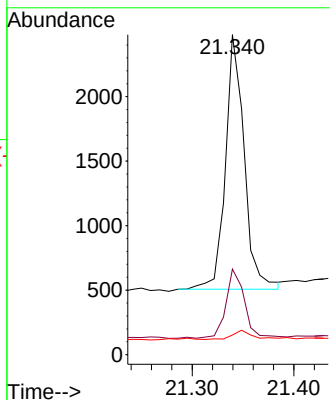
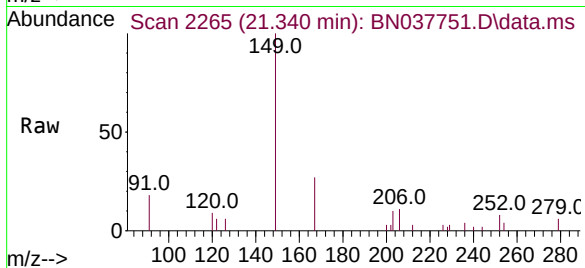




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.199 ng
RT: 21.340 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

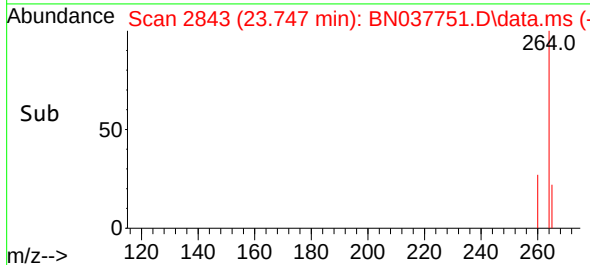
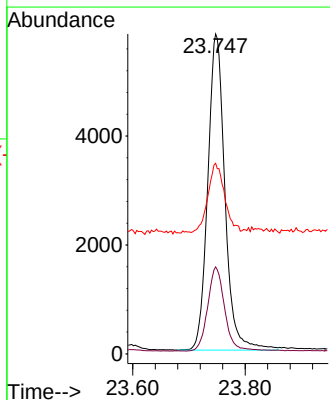
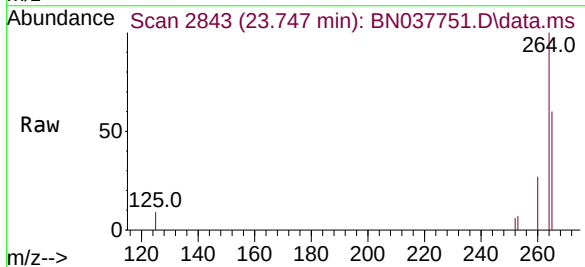
Instrument :
BNA_N
ClientSampleId :
MW203D1-20250909

Tgt Ion:149 Resp: 2537
Ion Ratio Lower Upper
149 100
167 27.1 20.8 31.2
279 4.3 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.747 min Scan# 2843
Delta R.T. -0.006 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

Tgt Ion:264 Resp: 12297
Ion Ratio Lower Upper
264 100
260 27.2 21.8 32.8
265 59.6 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	09/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/12/25
Client Sample ID:	MW179D2-20250909		SDG No.:	Q3095
Lab Sample ID:	Q3095-09		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
BN037752.D	1	09/15/25 10:15	09/17/25 18:49	PB169692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.62		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		74%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		87%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		80%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		99%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6450	7.84				
1146-65-2	Naphthalene-d8	17500	10.637				
15067-26-2	Acenaphthene-d10	7930	14.494				
1517-22-2	Phenanthrene-d10	13400	17.235				
1719-03-5	Chrysene-d12	10500	21.411				
1520-96-3	Perylene-d12	10500	23.747				

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\BN091725\
 Data File : BN037752.D
 Acq On : 17 Sep 2025 18:49
 Operator : RC/JU
 Sample : Q3095-09
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW179D2-20250909

Quant Time: Sep 17 19:13:55 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

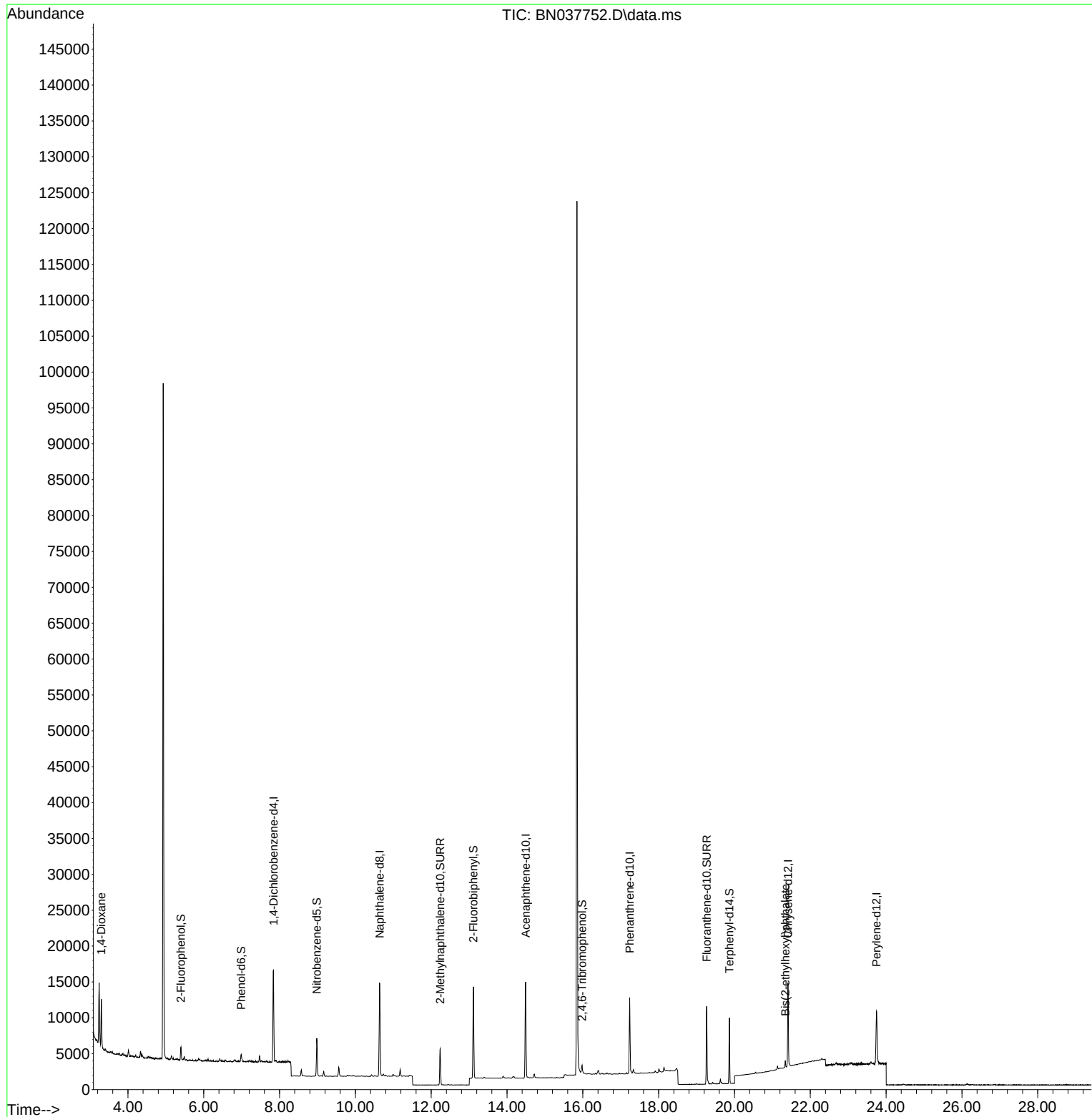
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	6450	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	17530	0.400	ng	-0.01
13) Acenaphthene-d10	14.494	164	7934	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	13430	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	10479	0.400	ng	# 0.00
35) Perylene-d12	23.747	264	10489	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	1456	0.098	ng	0.00
5) Phenol-d6	6.988	99	1014	0.053	ng	0.00
8) Nitrobenzene-d5	8.982	82	4086	0.319	ng	-0.01
11) 2-Methylnaphthalene-d10	12.238	152	6853	0.295	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	686	0.332	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	10696	0.322	ng	0.00
27) Fluoranthene-d10	19.266	212	11725	0.348	ng	0.00
31) Terphenyl-d14	19.866	244	8402	0.395	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	4057	0.604	ng	# 94
34) Bis(2-ethylhexyl)phtha...	21.339	149	1006	0.093	ng	# 97

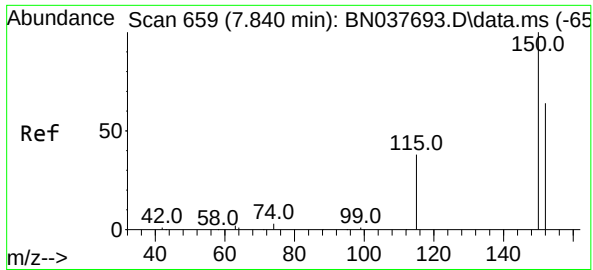
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037752.D
Acq On : 17 Sep 2025 18:49
Operator : RC/JU
Sample : Q3095-09
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW179D2-20250909

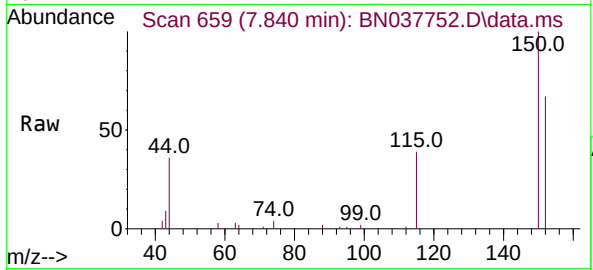
Quant Time: Sep 17 19:13:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



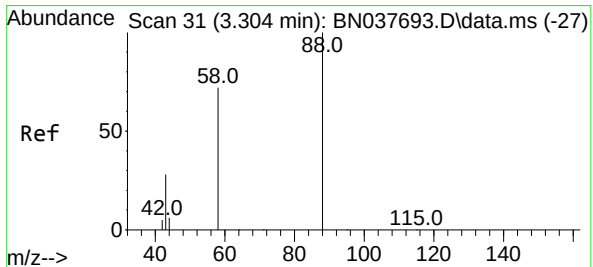
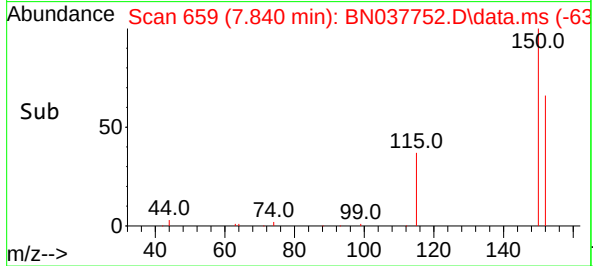
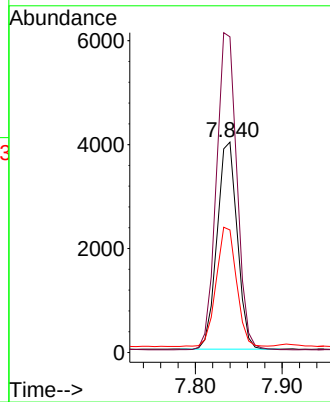


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.840 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN037752.D
 Acq: 17 Sep 2025 18:49

Instrument :
 BNA_N
 ClientSampleId :
 MW179D2-20250909

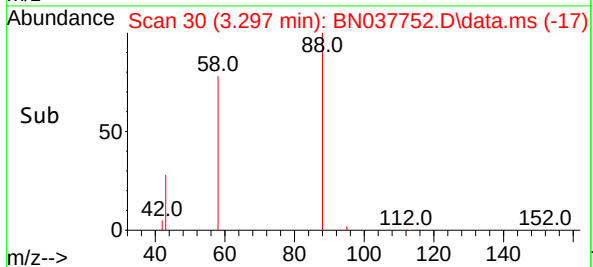
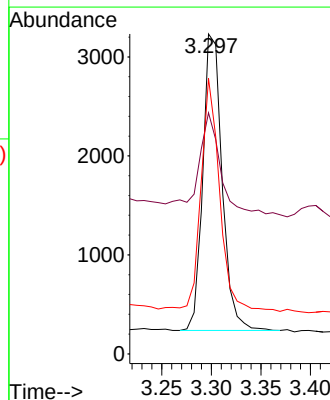
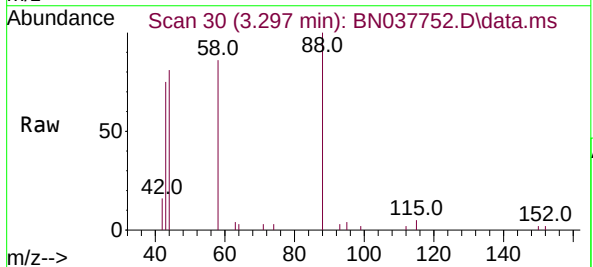


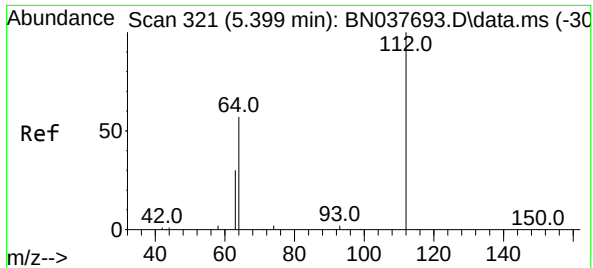
Tgt Ion:152 Resp: 6450
 Ion Ratio Lower Upper
 152 100
 150 150.0 124.5 186.7
 115 58.2 49.2 73.8



#2
 1,4-Dioxane
 Concen: 0.604 ng
 RT: 3.297 min Scan# 30
 Delta R.T. -0.007 min
 Lab File: BN037752.D
 Acq: 17 Sep 2025 18:49

Tgt Ion: 88 Resp: 4057
 Ion Ratio Lower Upper
 88 100
 43 42.4 26.8 40.2#
 58 76.2 61.9 92.9

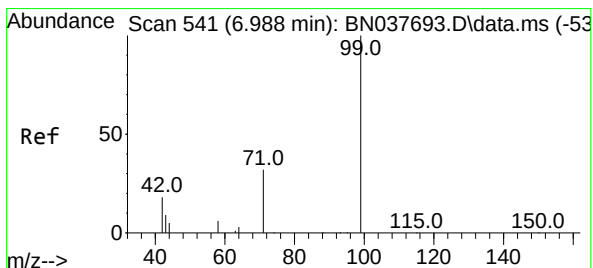
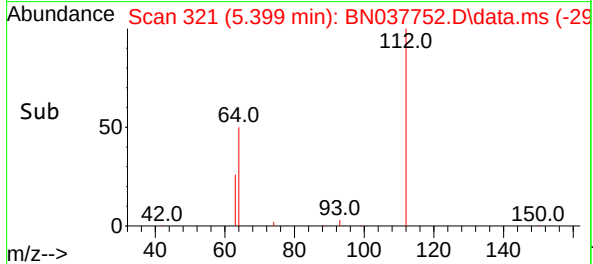
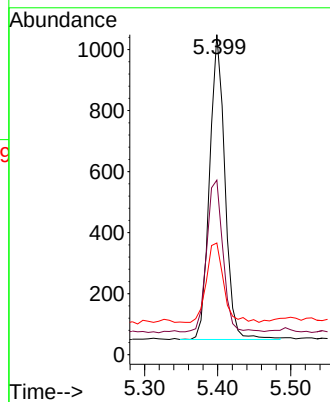
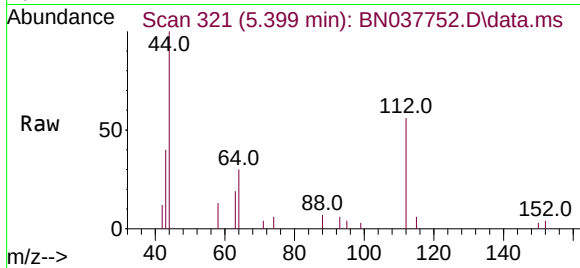




#4
2-Fluorophenol
Concen: 0.098 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

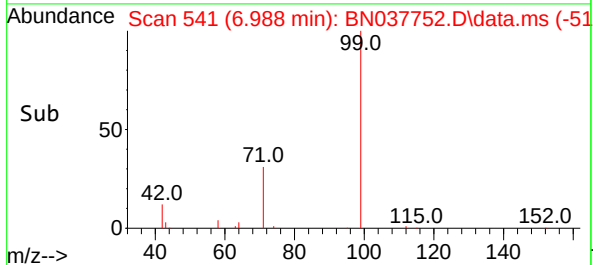
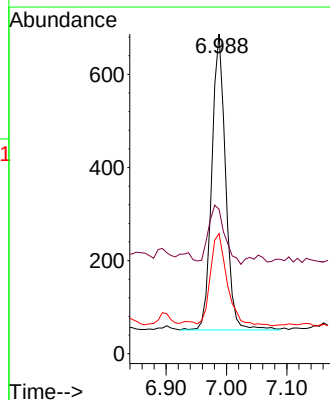
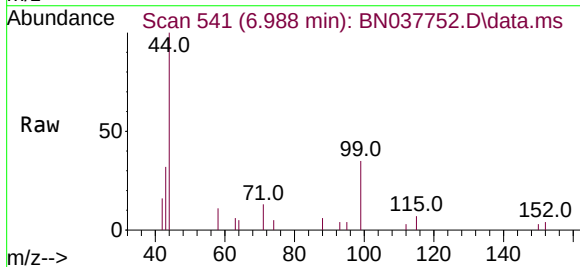
Instrument :
BNA_N
ClientSampleId :
MW179D2-20250909

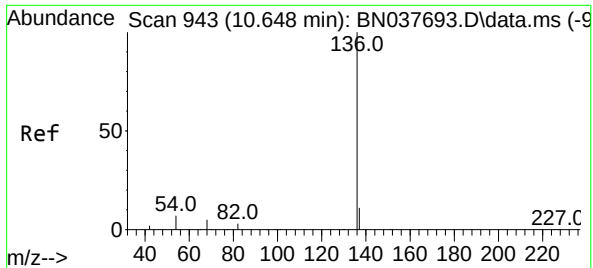
Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.8	44.9	67.3
63	29.1	24.7	37.1



#5
Phenol-d6
Concen: 0.053 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

Tgt Ion	Ratio	Lower	Upper
99	100		
42	23.3	16.6	24.8
71	37.9	26.7	40.1

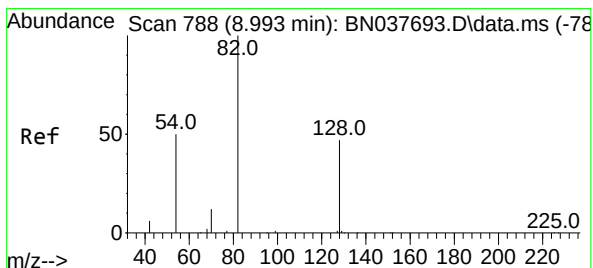
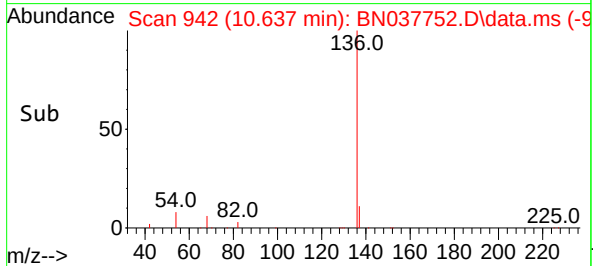
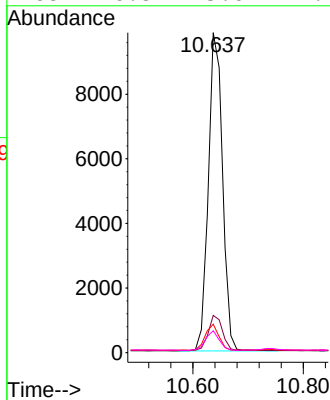
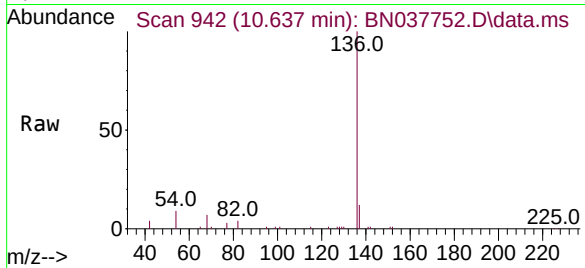




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

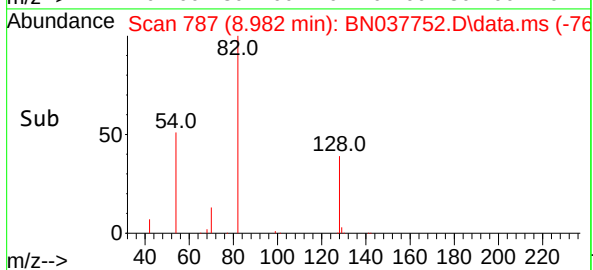
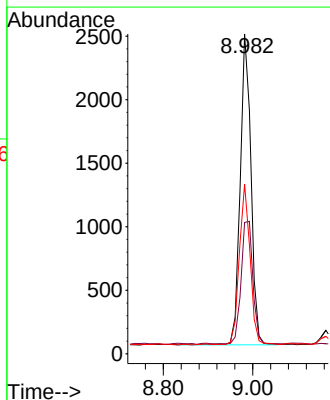
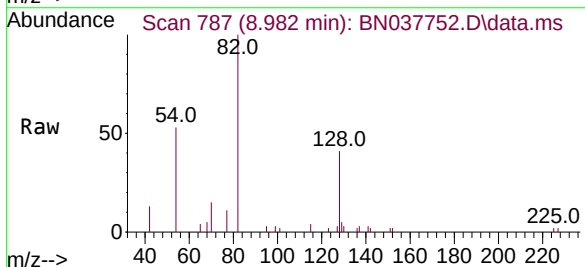
Instrument :
BNA_N
ClientSampleId :
MW179D2-20250909

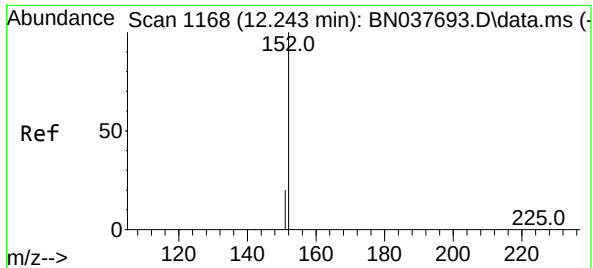
Tgt Ion:	136	Resp:	17530
Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.1	13.7
54	8.9	6.3	9.5
68	6.8	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.319 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

Tgt Ion:	82	Resp:	4086
Ion	Ratio	Lower	Upper
82	100		
128	41.1	38.3	57.5
54	53.1	41.4	62.2

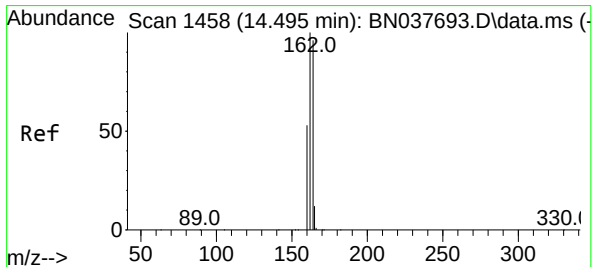
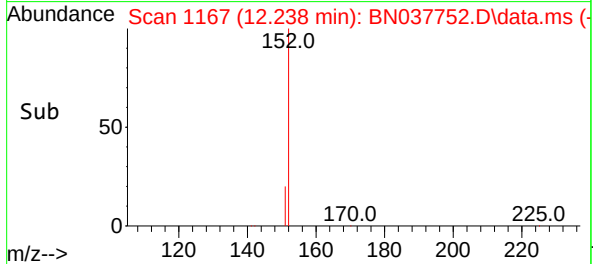
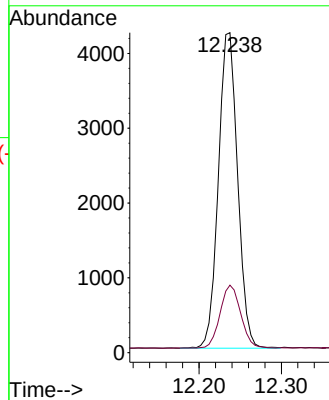
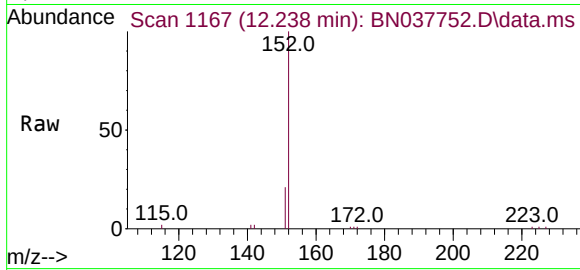




#11
2-Methylnaphthalene-d10
Concen: 0.295 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

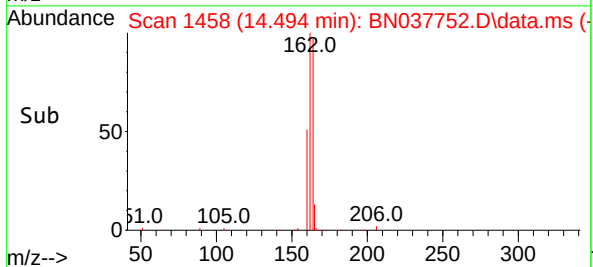
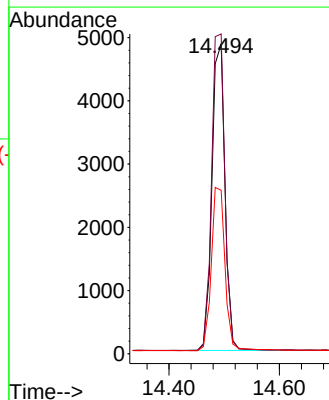
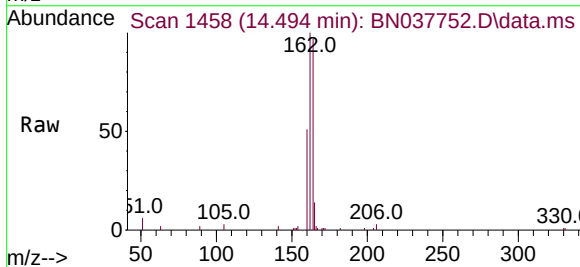
Instrument :
BNA_N
ClientSampleId :
MW179D2-20250909

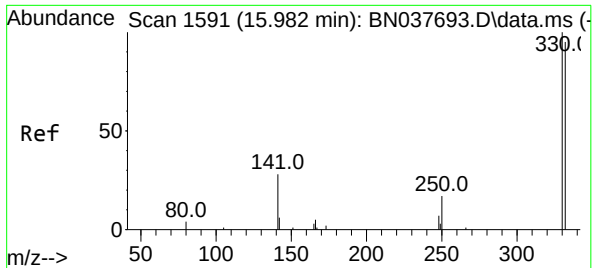
Tgt Ion:152 Resp: 6853
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

Tgt Ion:164 Resp: 7934
Ion Ratio Lower Upper
164 100
162 103.2 83.1 124.7
160 52.8 44.3 66.5

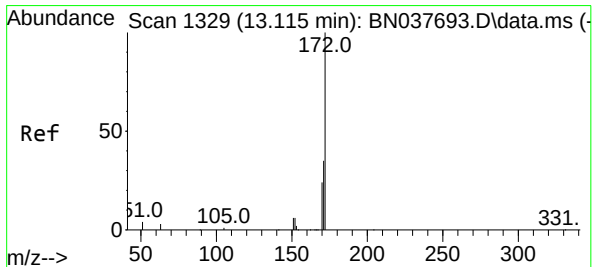
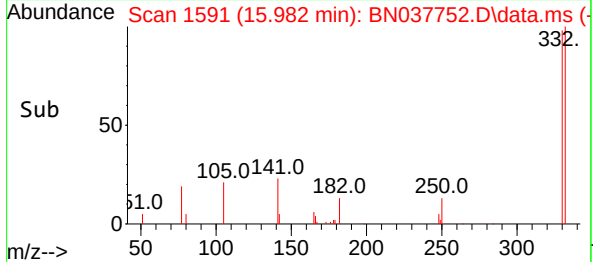
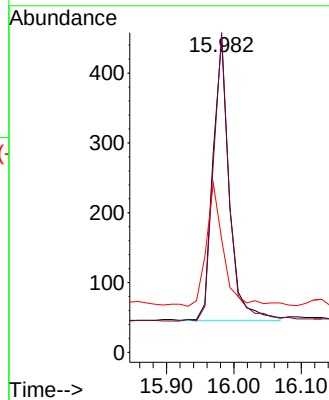
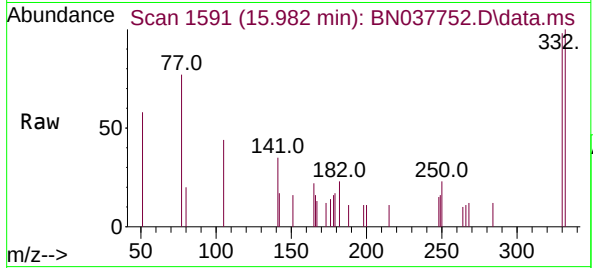




#14
2,4,6-Tribromophenol
Concen: 0.332 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

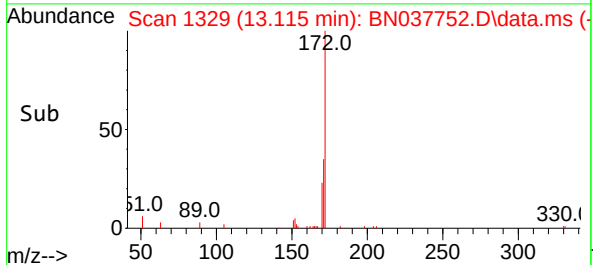
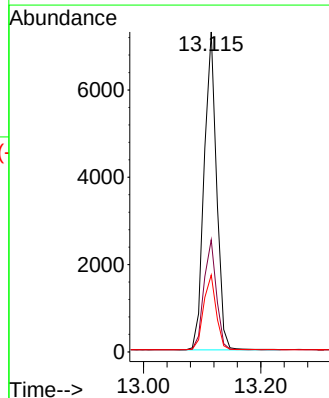
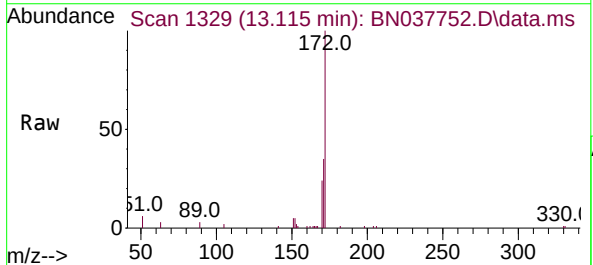
Instrument :
BNA_N
ClientSampleId :
MW179D2-20250909

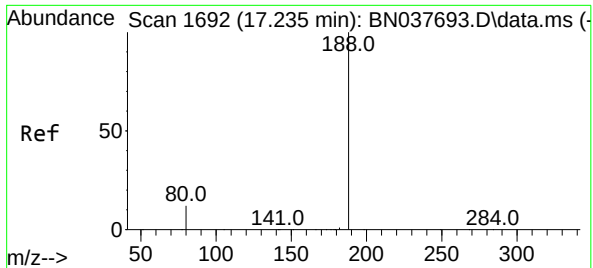
Tgt Ion	330	Resp	686
Ion	Ratio	Lower	Upper
330	100		
332	100.1	75.3	112.9
141	46.5	35.0	52.4



#15
2-Fluorobiphenyl
Concen: 0.322 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

Tgt Ion	172	Resp	10696
Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.6	43.0
170	24.0	19.8	29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037752.D

Acq: 17 Sep 2025 18:49

Instrument :

BNA_N

ClientSampleId :

MW179D2-20250909

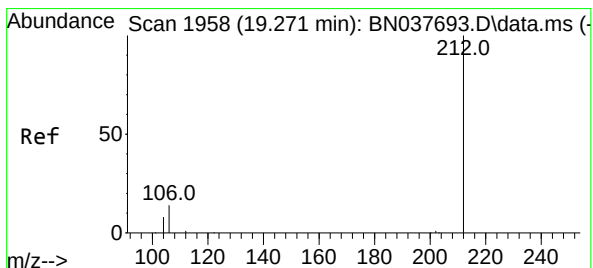
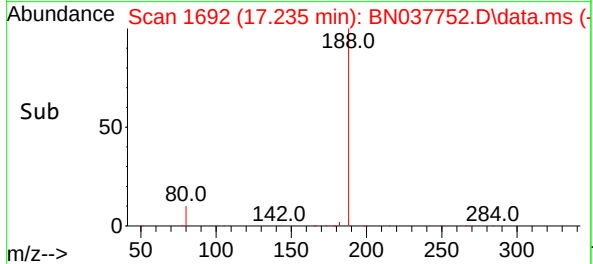
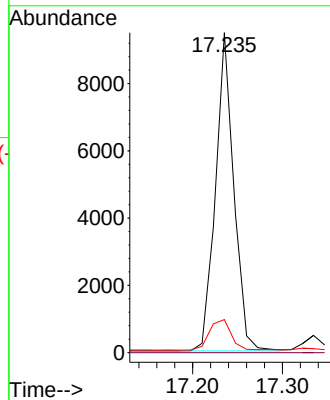
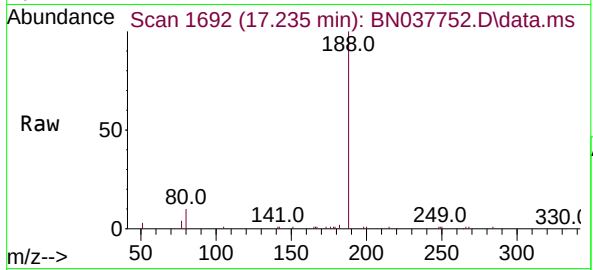
Tgt Ion:188 Resp: 13430

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.3 10.6 15.8#



#27

Fluoranthene-d10

Concen: 0.348 ng

RT: 19.266 min Scan# 1957

Delta R.T. -0.005 min

Lab File: BN037752.D

Acq: 17 Sep 2025 18:49

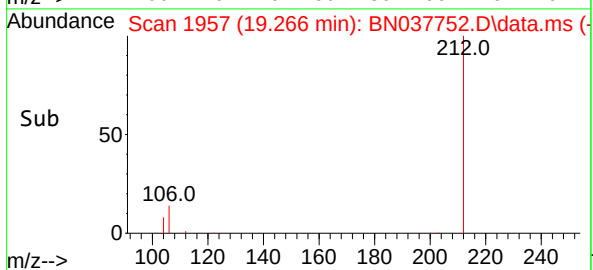
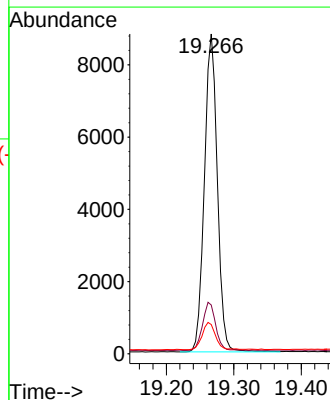
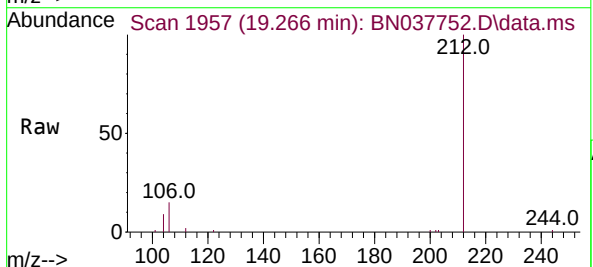
Tgt Ion:212 Resp: 11725

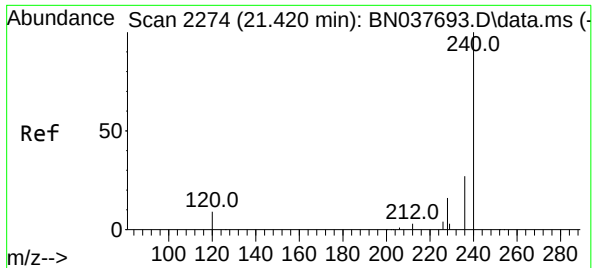
Ion Ratio Lower Upper

212 100

106 15.4 12.2 18.2

104 8.8 6.9 10.3

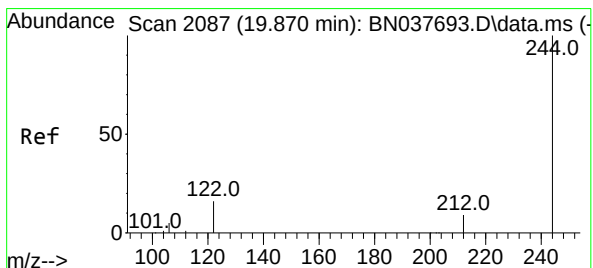
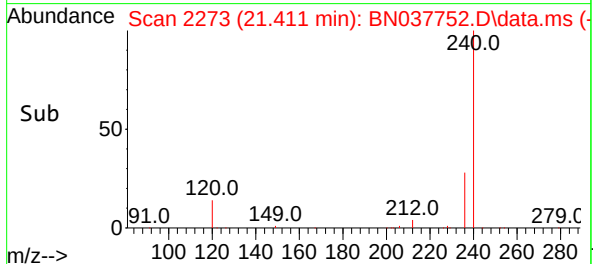
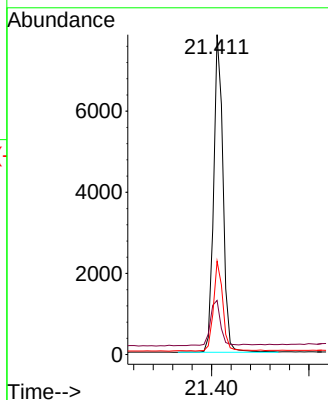
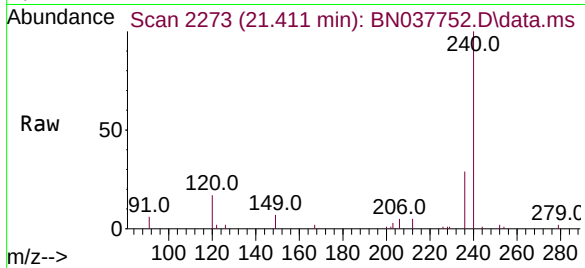




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

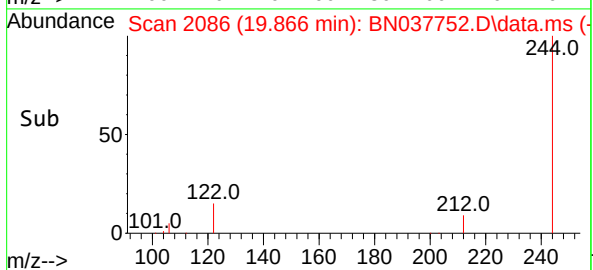
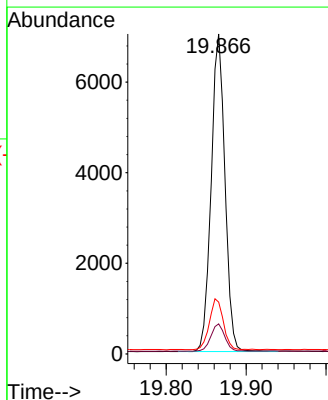
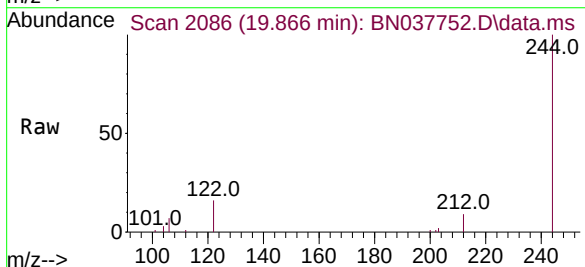
Instrument :
BNA_N
ClientSampleId :
MW179D2-20250909

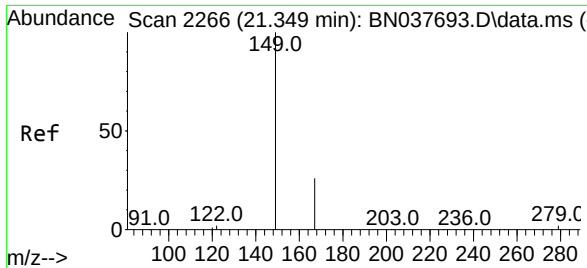
Tgt Ion:240 Resp: 10479
Ion Ratio Lower Upper
240 100
120 16.9 9.2 13.8#
236 29.2 22.6 33.8



#31
Terphenyl-d14
Concen: 0.395 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

Tgt Ion:244 Resp: 8402
Ion Ratio Lower Upper
244 100
212 9.4 7.5 11.3
122 16.2 13.2 19.8

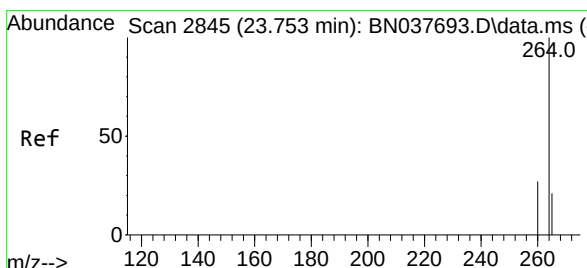
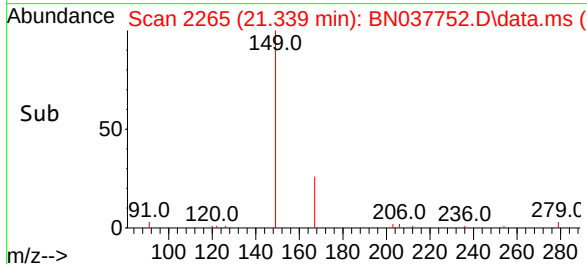
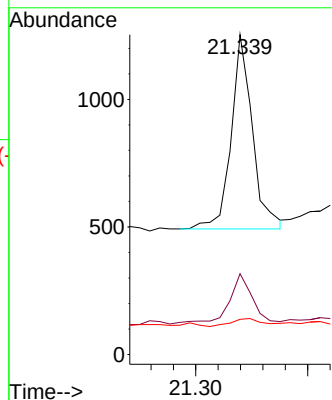
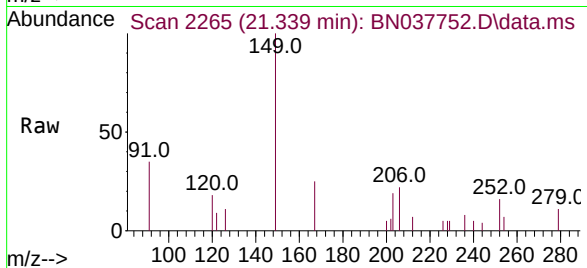




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.093 ng
RT: 21.339 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

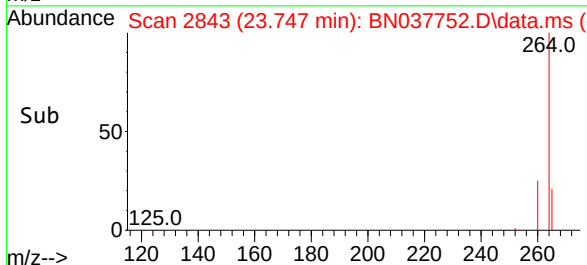
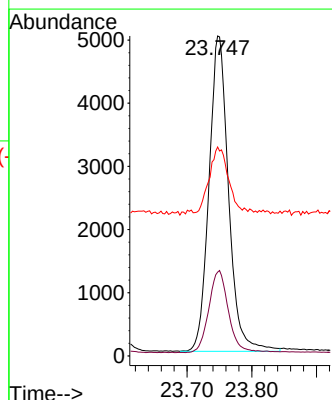
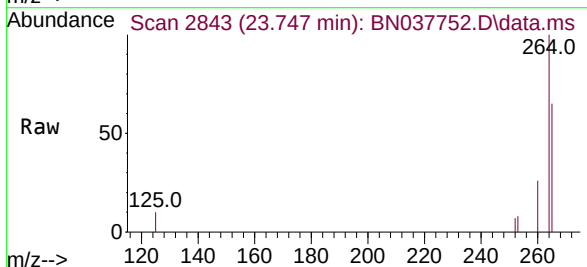
Instrument :
BNA_N
ClientSampleId :
MW179D2-20250909

Tgt Ion:149 Resp: 1006
Ion Ratio Lower Upper
149 100
167 25.0 20.8 31.2
279 6.3 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.747 min Scan# 2843
Delta R.T. -0.006 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

Tgt Ion:264 Resp: 10489
Ion Ratio Lower Upper
264 100
260 26.2 21.8 32.8
265 65.3 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	MW201D1-20250909	SDG No.:	Q3095
Lab Sample ID:	Q3095-10	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
BN037753.D	1	09/15/25 10:15	09/17/25 19:25	PB169692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.070	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		77%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		58 - 132		92%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6380	7.833				
1146-65-2	Naphthalene-d8	17000	10.637				
15067-26-2	Acenaphthene-d10	7750	14.484				
1517-22-2	Phenanthrene-d10	13900	17.235				
1719-03-5	Chrysene-d12	12600	21.411				
1520-96-3	Perylene-d12	12800	23.747				

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\BN091725\
 Data File : BN037753.D
 Acq On : 17 Sep 2025 19:25
 Operator : RC/JU
 Sample : Q3095-10
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW201D1-20250909

Quant Time: Sep 18 05:01:01 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

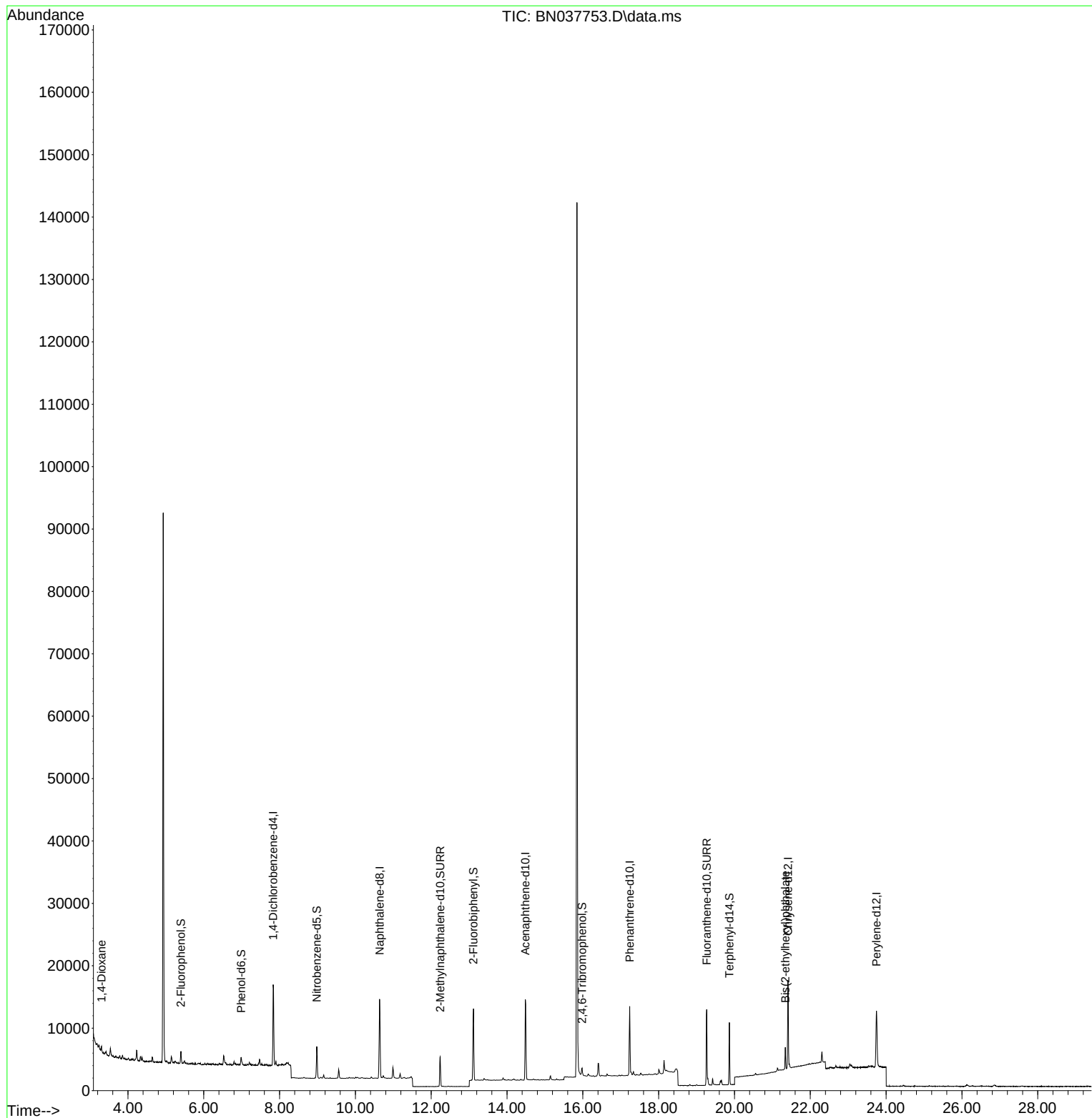
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	6375	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	17020	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	7746	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	13901	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	12559	0.400	ng	# 0.00
35) Perylene-d12	23.747	264	12839	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	1556	0.106	ng	0.00
5) Phenol-d6	6.988	99	1116	0.059	ng	0.00
8) Nitrobenzene-d5	8.982	82	3852	0.309	ng	-0.01
11) 2-Methylnaphthalene-d10	12.238	152	6496	0.288	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	788	0.390	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	10071	0.311	ng	0.00
27) Fluoranthene-d10	19.266	212	13047	0.374	ng	0.00
31) Terphenyl-d14	19.866	244	9418	0.369	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.304	88	493	0.074	ng	# 64
34) Bis(2-ethylhexyl)phtha...	21.340	149	3423	0.264	ng	100

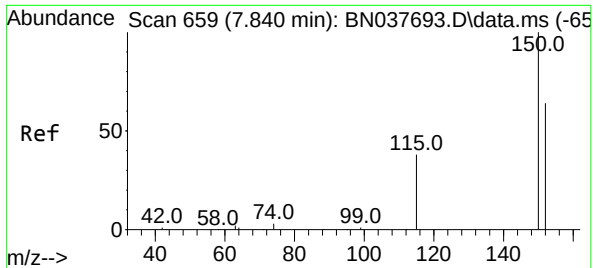
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037753.D
Acq On : 17 Sep 2025 19:25
Operator : RC/JU
Sample : Q3095-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW201D1-20250909

Quant Time: Sep 18 05:01:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

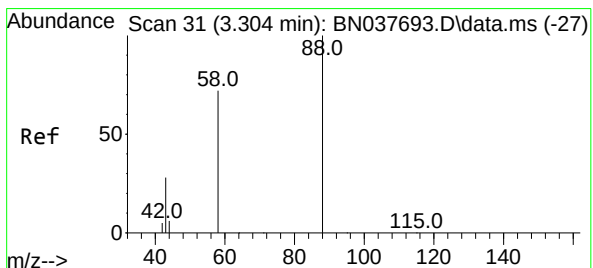
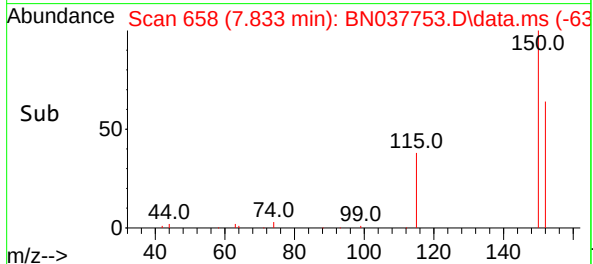
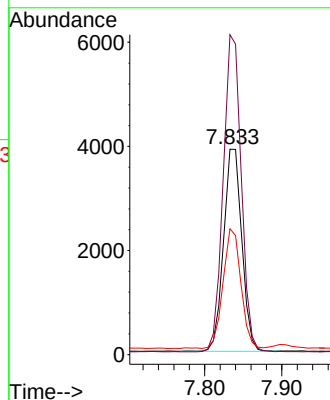
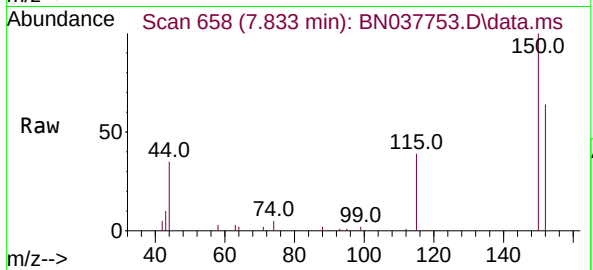




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

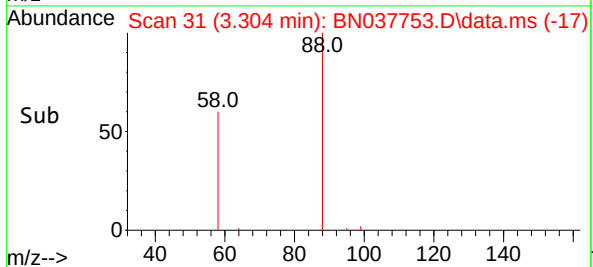
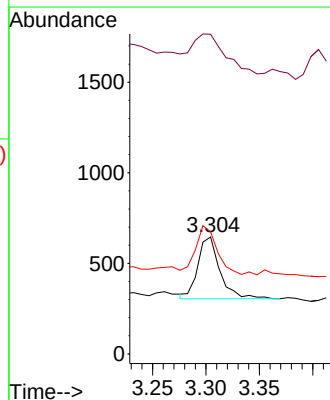
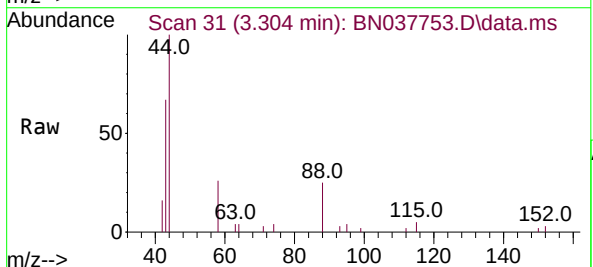
Instrument :
BNA_N
ClientSampleId :
MW201D1-20250909

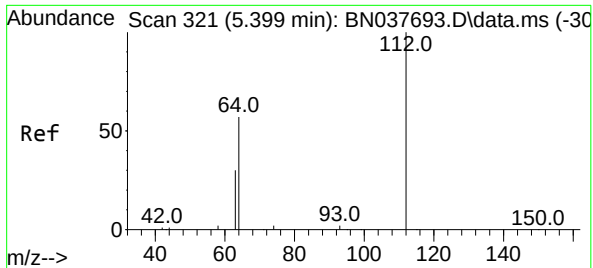
Tgt Ion:152 Resp: 6375
Ion Ratio Lower Upper
152 100
150 155.9 124.5 186.7
115 61.3 49.2 73.8



#2
1,4-Dioxane
Concen: 0.074 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

Tgt Ion: 88 Resp: 493
Ion Ratio Lower Upper
88 100
43 98.2 26.8 40.2#
58 75.1 61.9 92.9

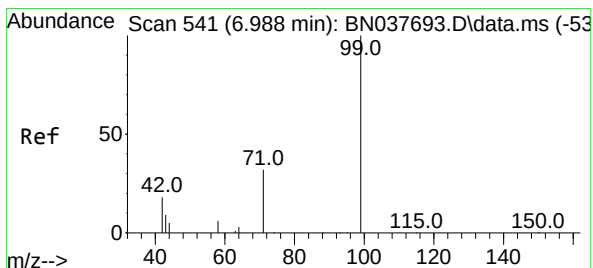
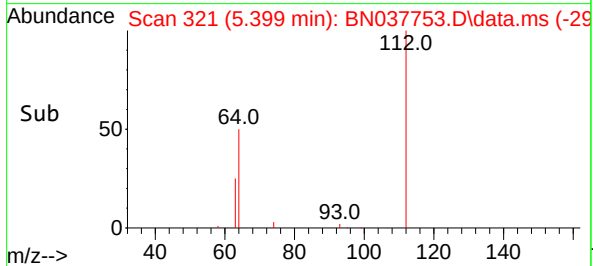
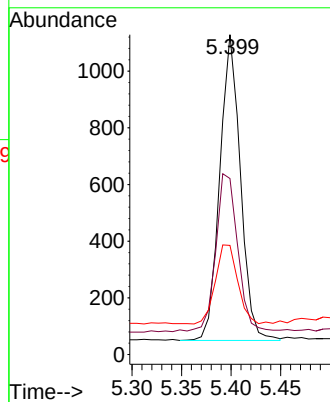
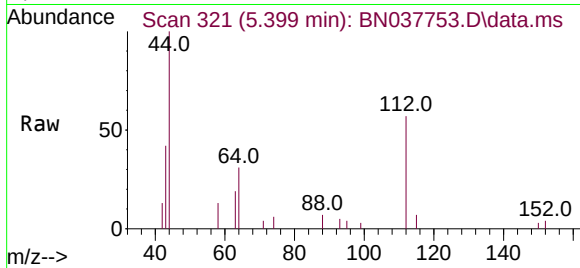




#4
2-Fluorophenol
Concen: 0.106 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

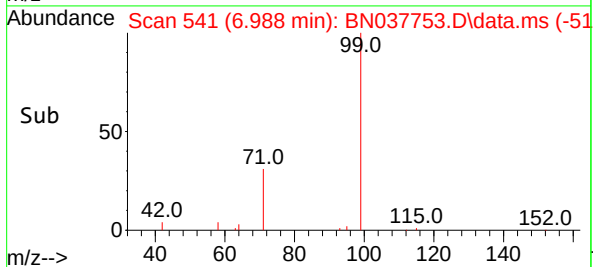
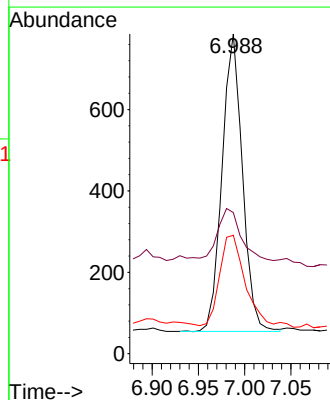
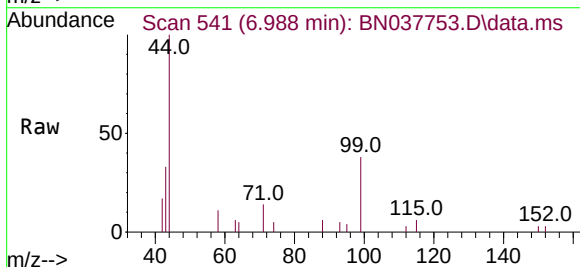
Instrument :
BNA_N
ClientSampleId :
MW201D1-20250909

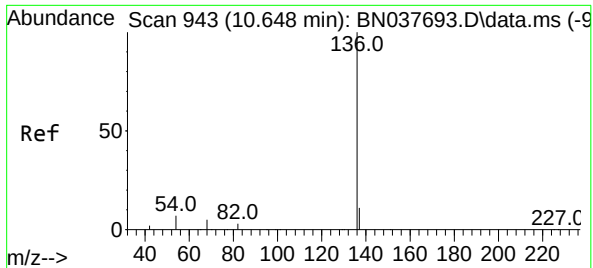
Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.1	44.9	67.3
63	27.9	24.7	37.1



#5
Phenol-d6
Concen: 0.059 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

Tgt Ion	Ratio	Lower	Upper
99	100		
42	19.7	16.6	24.8
71	39.9	26.7	40.1

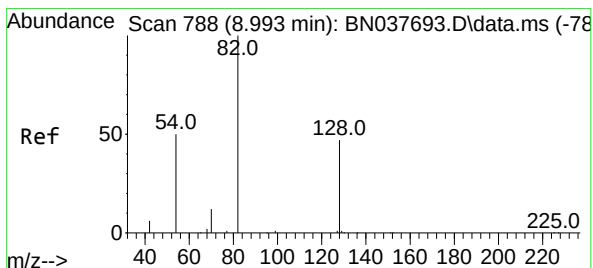
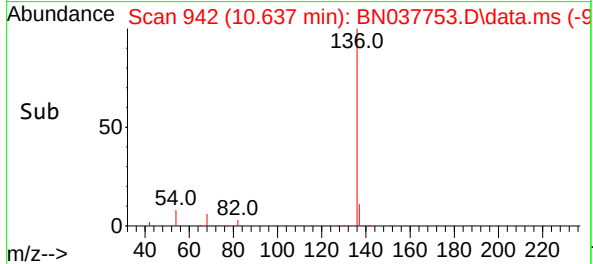
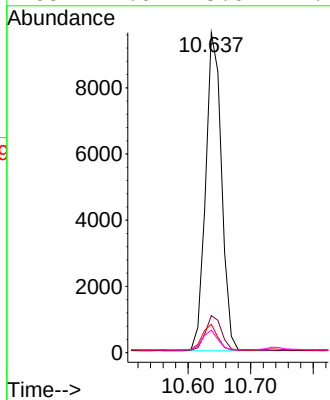
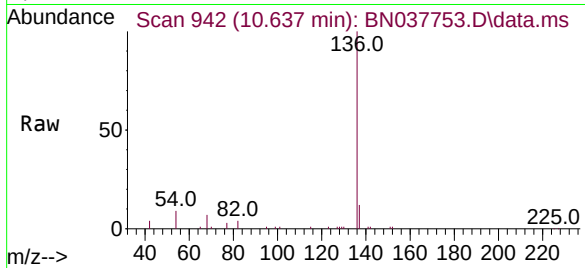




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

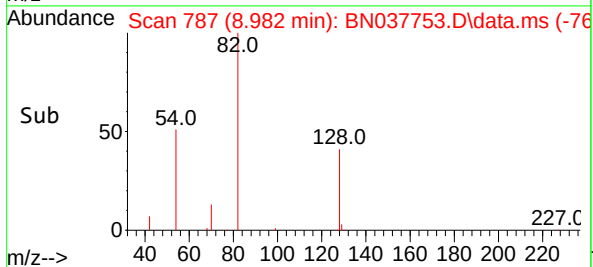
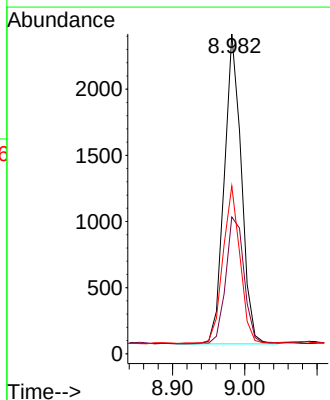
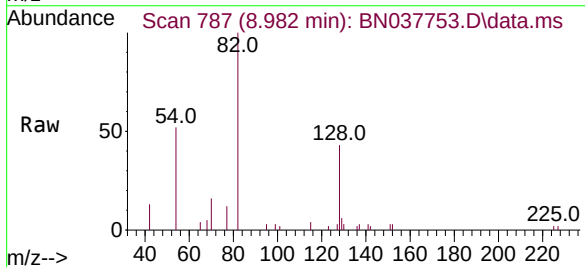
Instrument :
BNA_N
ClientSampleId :
MW201D1-20250909

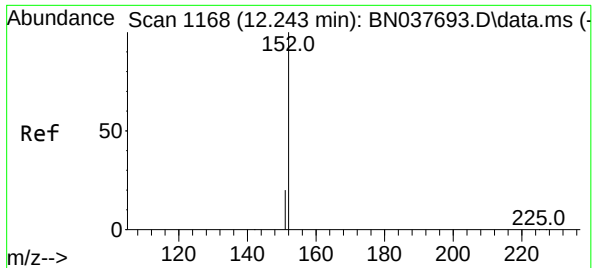
Tgt Ion:	136	Resp:	17020
Ion Ratio	Lower	Upper	
136	100		
137	11.6	9.1	13.7
54	8.8	6.3	9.5
68	7.0	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.309 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

Tgt Ion:	82	Resp:	3852
Ion Ratio	Lower	Upper	
82	100		
128	42.8	38.3	57.5
54	52.5	41.4	62.2

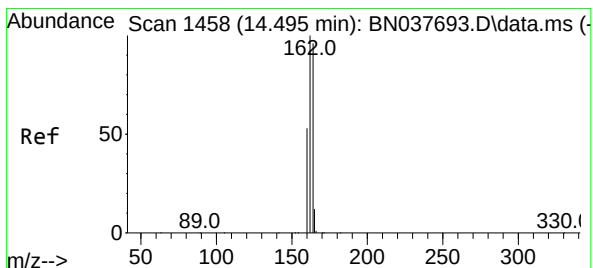
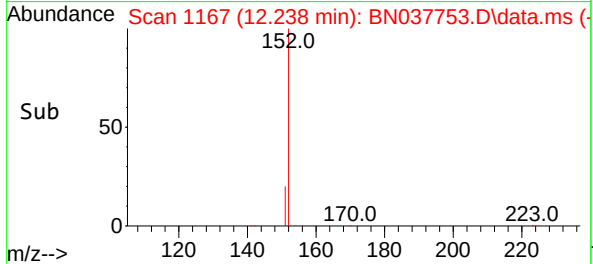
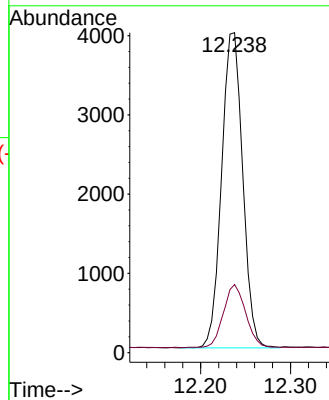
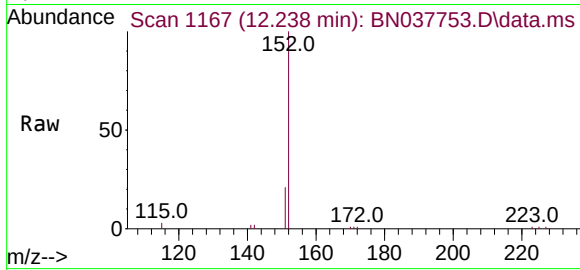




#11
2-Methylnaphthalene-d10
Concen: 0.288 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

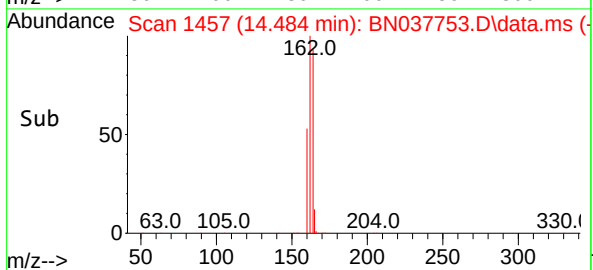
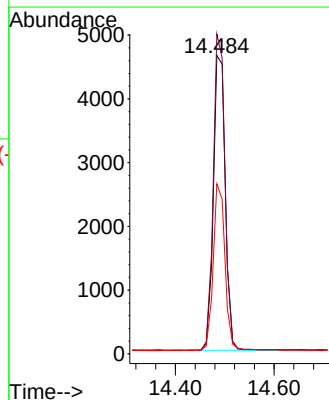
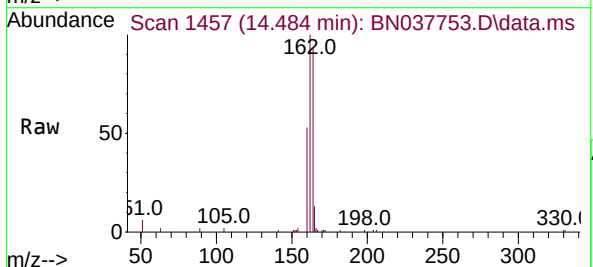
Instrument :
BNA_N
ClientSampleId :
MW201D1-20250909

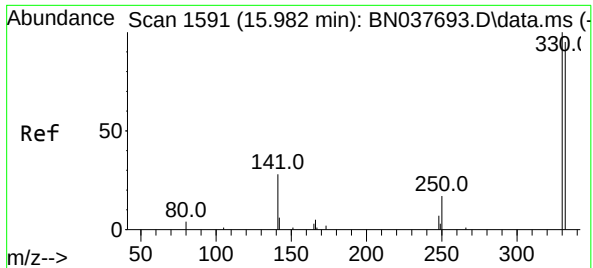
Tgt Ion:152 Resp: 6496
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

Tgt Ion:164 Resp: 7746
Ion Ratio Lower Upper
164 100
162 107.2 83.1 124.7
160 57.0 44.3 66.5

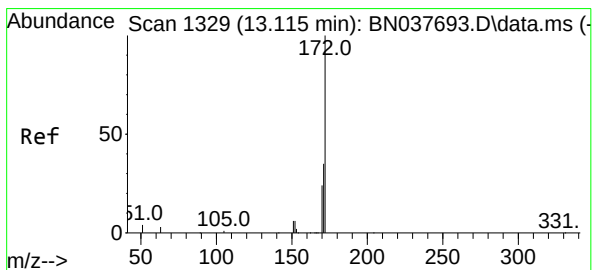
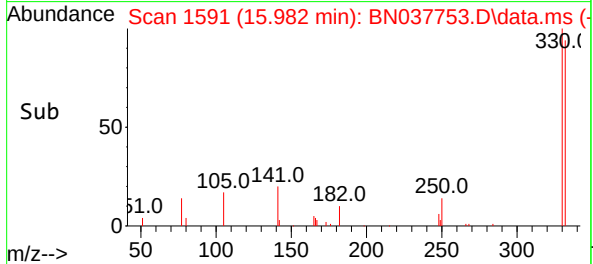
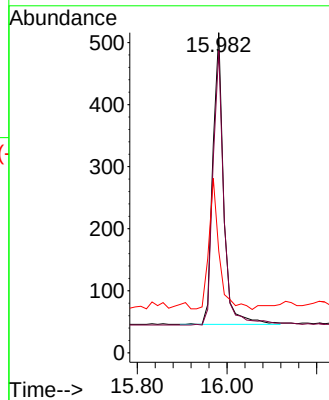
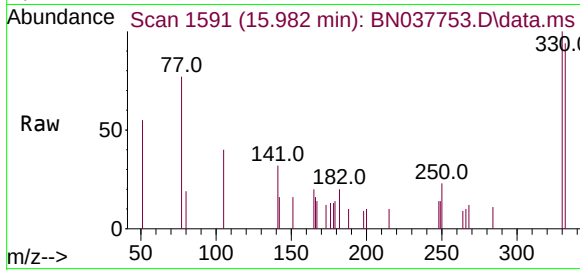




#14
2,4,6-Tribromophenol
Concen: 0.390 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

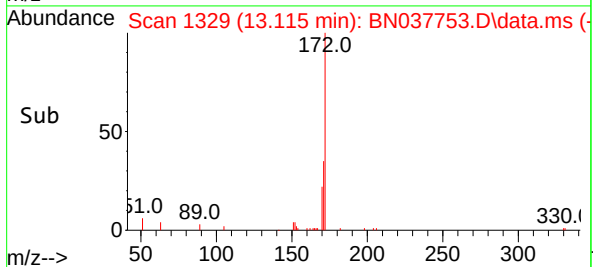
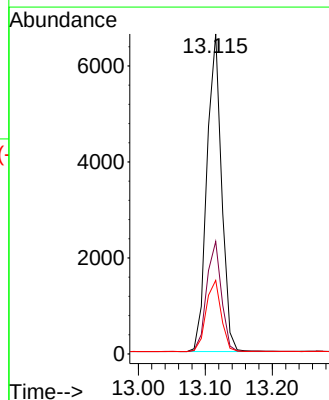
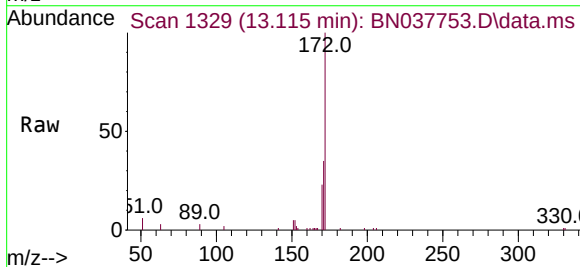
Instrument :
BNA_N
ClientSampleId :
MW201D1-20250909

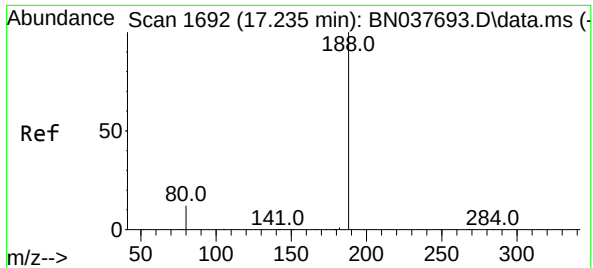
Tgt Ion	330	Resp	788
Ion	Ratio	Lower	Upper
330	100		
332	94.8	75.3	112.9
141	42.8	35.0	52.4



#15
2-Fluorobiphenyl
Concen: 0.311 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

Tgt Ion	172	Resp	10071
Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.6	43.0
170	23.0	19.8	29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037753.D

Acq: 17 Sep 2025 19:25

Instrument :

BNA_N

ClientSampleId :

MW201D1-20250909

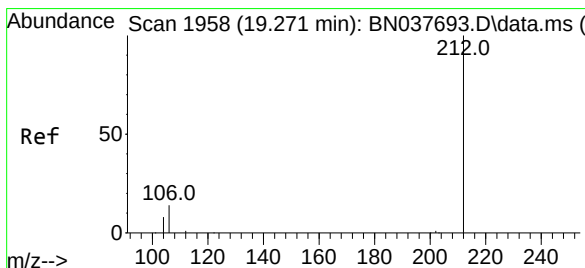
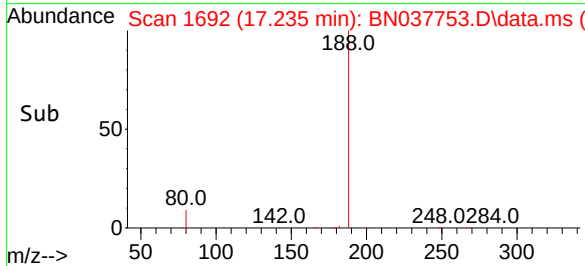
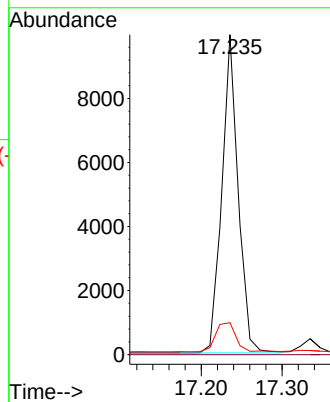
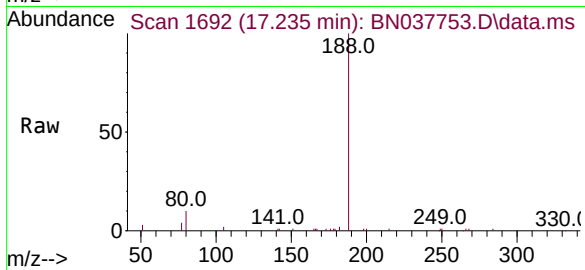
Tgt Ion:188 Resp: 13901

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.0 10.6 15.8#



#27

Fluoranthene-d10

Concen: 0.374 ng

RT: 19.266 min Scan# 1957

Delta R.T. -0.005 min

Lab File: BN037753.D

Acq: 17 Sep 2025 19:25

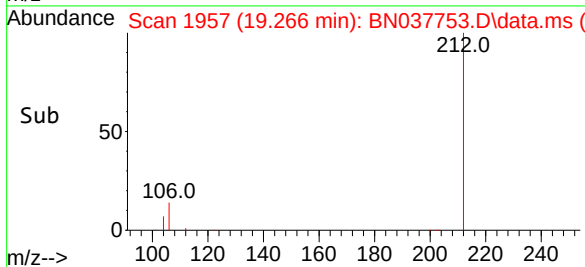
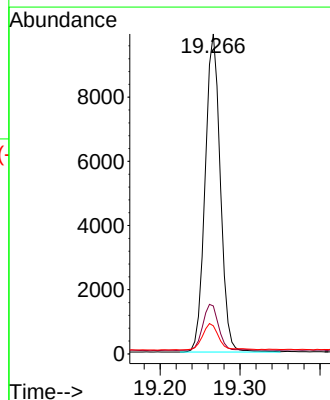
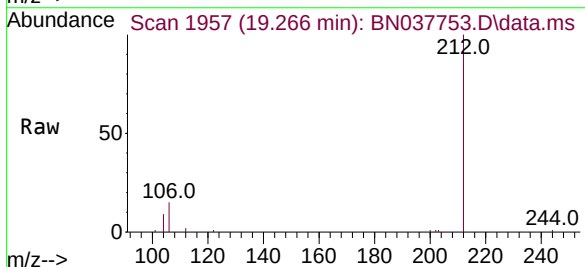
Tgt Ion:212 Resp: 13047

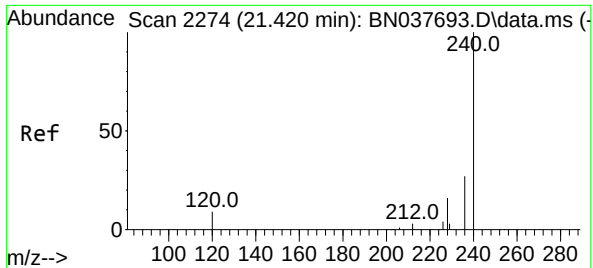
Ion Ratio Lower Upper

212 100

106 15.3 12.2 18.2

104 8.5 6.9 10.3

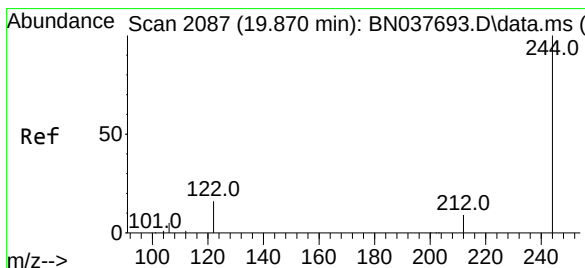
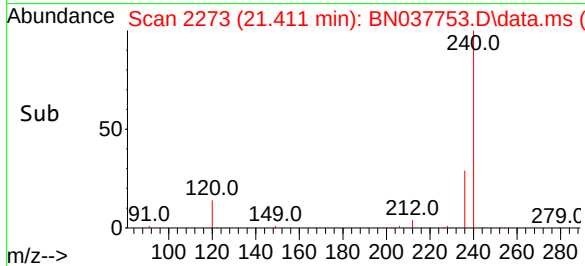
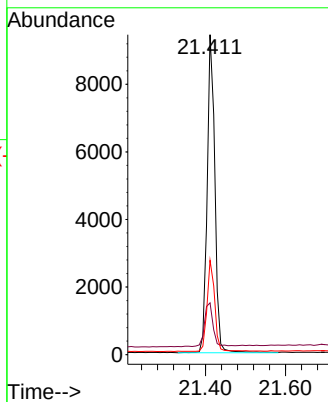
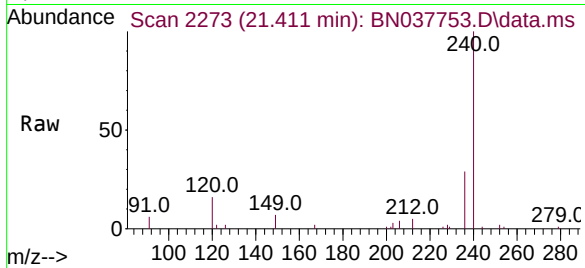




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

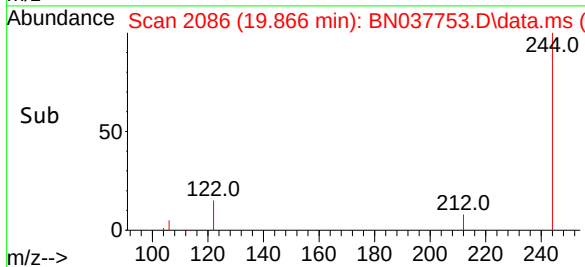
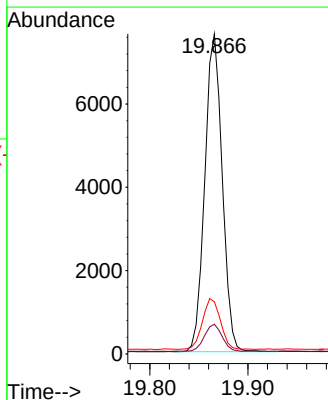
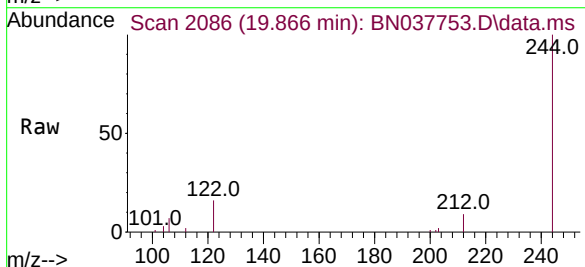
Instrument :
BNA_N
ClientSampleId :
MW201D1-20250909

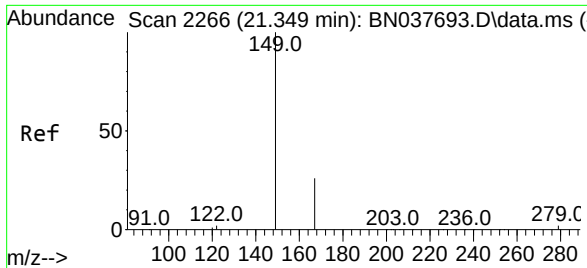
Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.2	9.2	13.8#
236	29.5	22.6	33.8



#31
Terphenyl-d14
Concen: 0.369 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.3	7.5	11.3
122	16.3	13.2	19.8

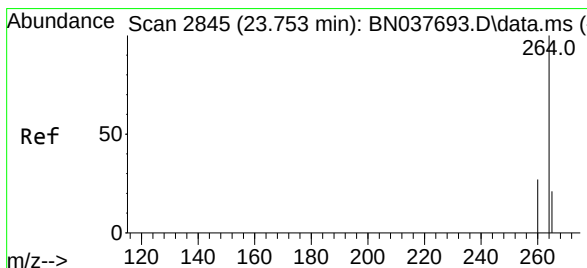
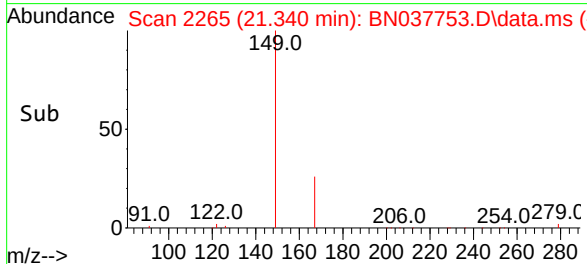
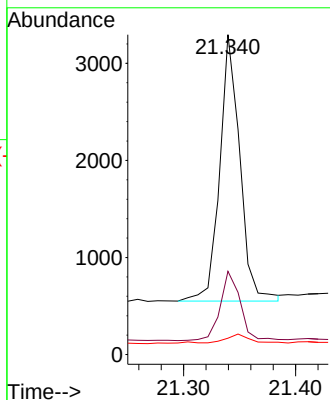
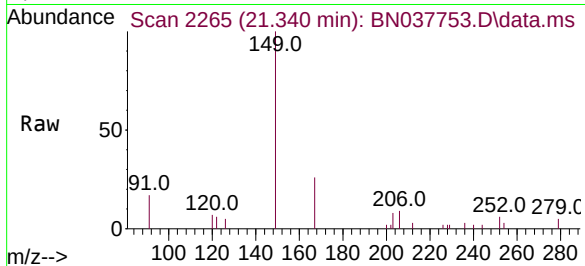




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.264 ng
RT: 21.340 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

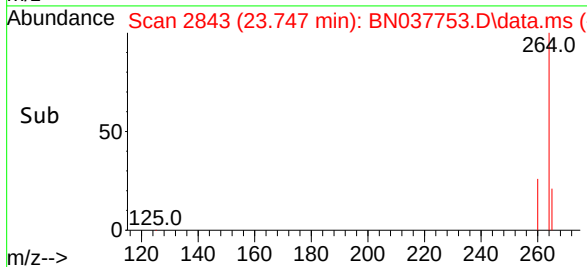
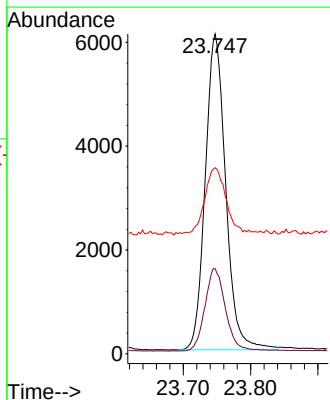
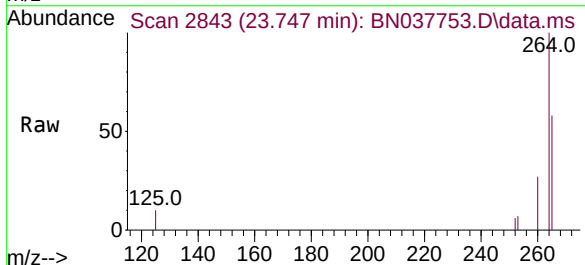
Instrument :
BNA_N
ClientSampleId :
MW201D1-20250909

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.1	20.8	31.2
279	3.8	3.3	4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.747 min Scan# 2843
Delta R.T. -0.006 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

Tgt Ion	Ratio	Lower	Upper
264	100		
260	26.6	21.8	32.8
265	58.2	39.4	59.2



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE122D1-20250909	SDG No.:	Q3095
Lab Sample ID:	Q3095-11	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
BN037754.D	1	09/15/25 10:15	09/17/25 20:01	PB169692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.80		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		87%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		116%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6750	7.833				
1146-65-2	Naphthalene-d8	18500	10.637				
15067-26-2	Acenaphthene-d10	8720	14.494				
1517-22-2	Phenanthrene-d10	14500	17.235				
1719-03-5	Chrysene-d12	10800	21.411				
1520-96-3	Perylene-d12	10800	23.75				

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\BN091725\
 Data File : BN037754.D
 Acq On : 17 Sep 2025 20:01
 Operator : RC/JU
 Sample : Q3095-11
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE122D1-20250909

Quant Time: Sep 18 05:01:17 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

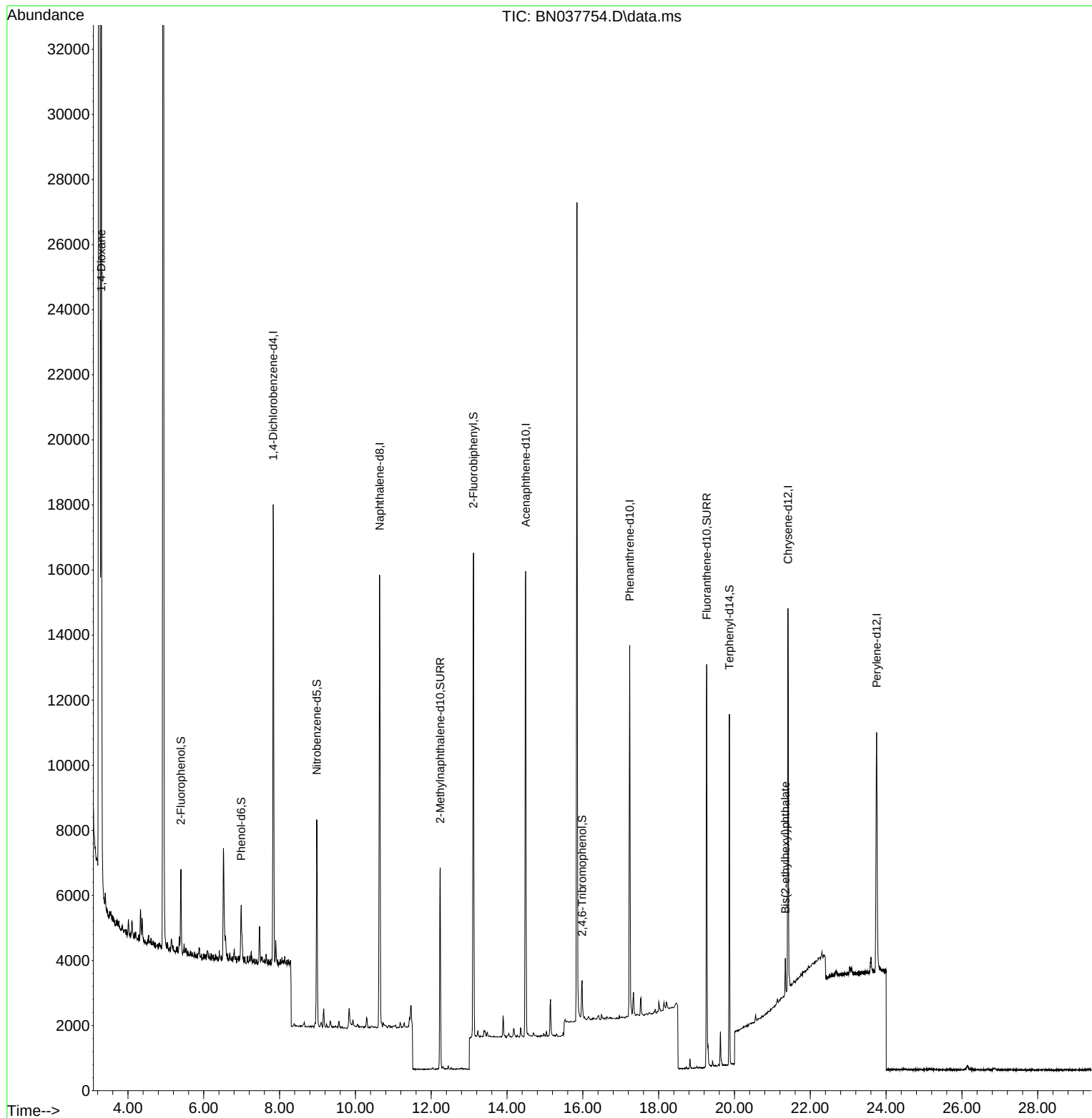
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	7.833	152	6754	0.400 ng	0.00
7) Naphthalene-d8	10.637	136	18549	0.400 ng	-0.01
13) Acenaphthene-d10	14.494	164	8723	0.400 ng	0.00
19) Phenanthrene-d10	17.235	188	14502	0.400 ng	# 0.00
29) Chrysene-d12	21.411	240	10754	0.400 ng	# 0.00
35) Perylene-d12	23.750	264	10771	0.400 ng	# 0.00
System Monitoring Compounds					
4) 2-Fluorophenol	5.399	112	2035	0.131 ng	0.00
5) Phenol-d6	6.988	99	1494	0.074 ng	0.00
8) Nitrobenzene-d5	8.982	82	4878	0.360 ng	-0.01
11) 2-Methylnaphthalene-d10	12.238	152	8309	0.338 ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	798	0.351 ng	0.00
15) 2-Fluorobiphenyl	13.115	172	12743	0.349 ng	0.00
27) Fluoranthene-d10	19.266	212	13539	0.372 ng	0.00
31) Terphenyl-d14	19.866	244	10113	0.463 ng	0.00
Target Compounds					
2) 1,4-Dioxane	3.297	88	19862	2.823 ng	Qvalue 94
34) Bis(2-ethylhexyl)phtha...	21.340	149	1128	0.101 ng	# 97

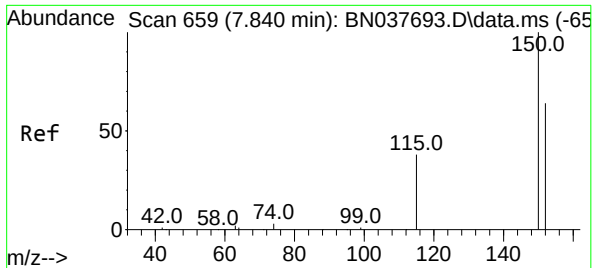
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037754.D
Acq On : 17 Sep 2025 20:01
Operator : RC/JU
Sample : Q3095-11
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE122D1-20250909

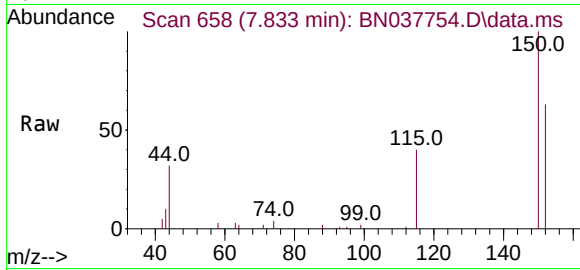
Quant Time: Sep 18 05:01:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



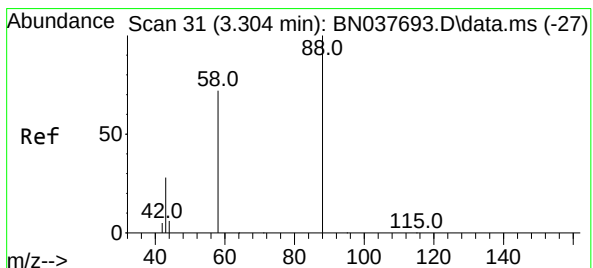
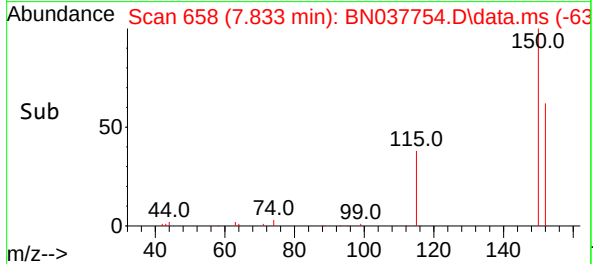
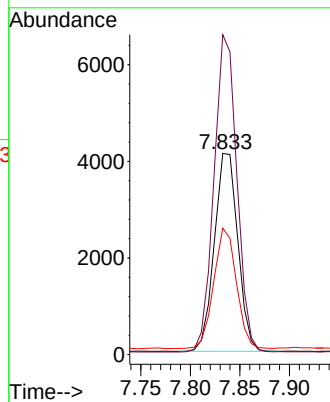


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

Instrument :
BNA_N
ClientSampleId :
RE122D1-20250909

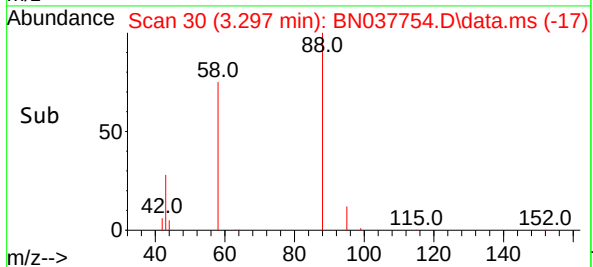
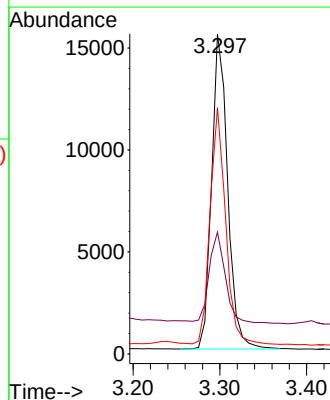
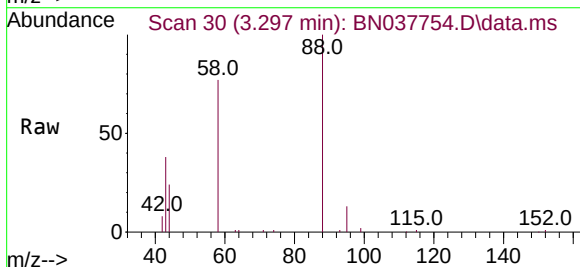


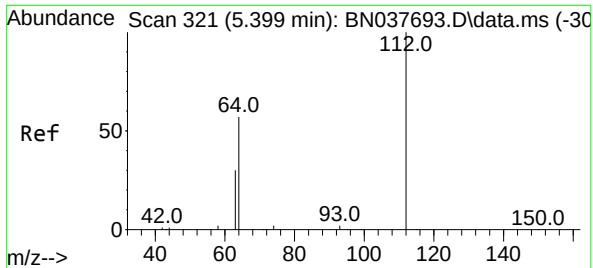
Tgt Ion:152 Resp: 6754
Ion Ratio Lower Upper
152 100
150 159.0 124.5 186.7
115 62.8 49.2 73.8



#2
1,4-Dioxane
Concen: 2.823 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

Tgt Ion: 88 Resp: 19862
Ion Ratio Lower Upper
88 100
43 29.1 26.8 40.2
58 72.8 61.9 92.9

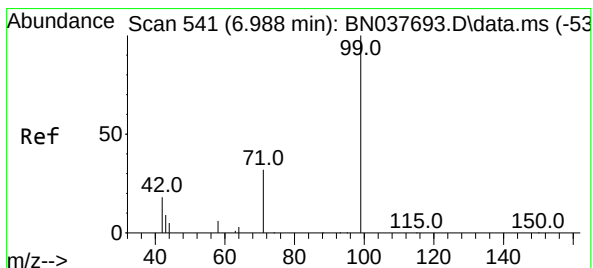
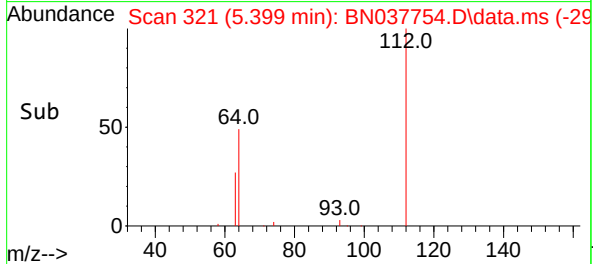
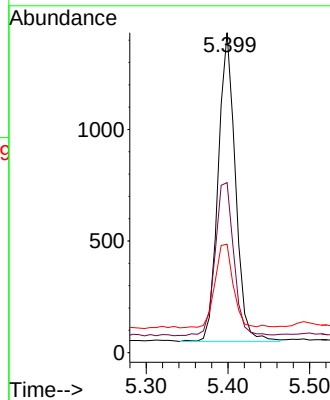
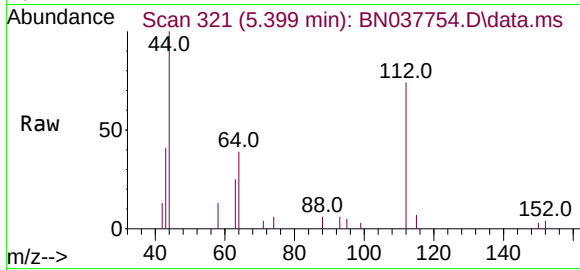




#4
2-Fluorophenol
Concen: 0.131 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

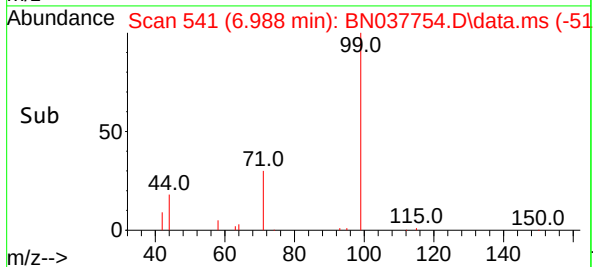
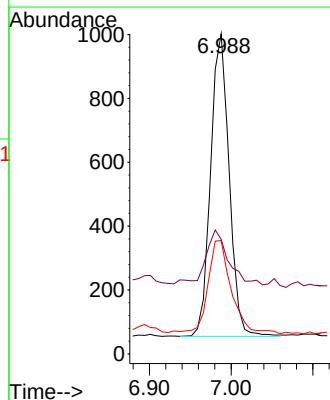
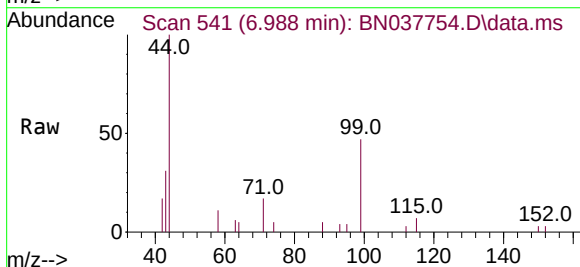
Instrument :
BNA_N
ClientSampleId :
RE122D1-20250909

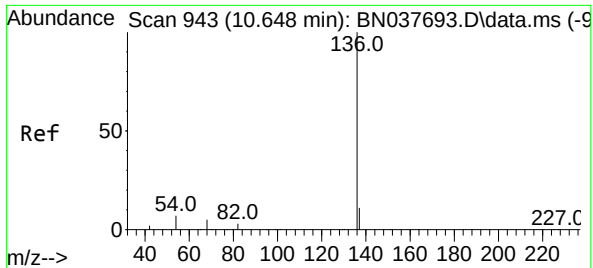
Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.4	44.9	67.3
63	29.5	24.7	37.1



#5
Phenol-d6
Concen: 0.074 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

Tgt Ion	Ratio	Lower	Upper
99	100		
42	23.1	16.6	24.8
71	39.6	26.7	40.1

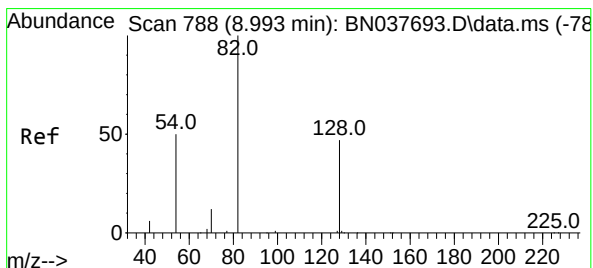
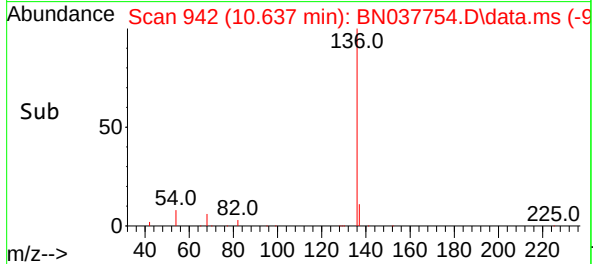
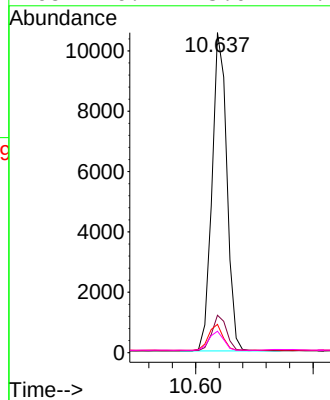
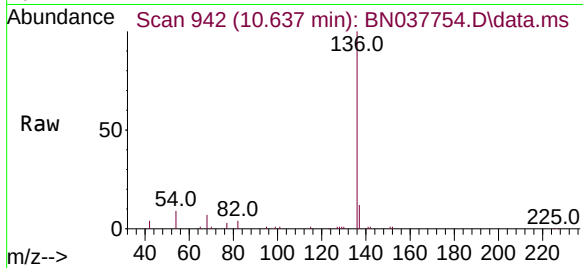




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

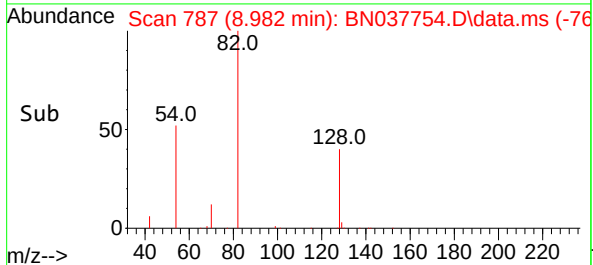
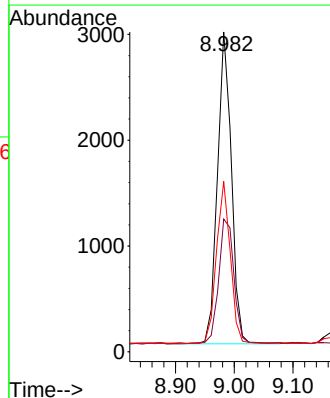
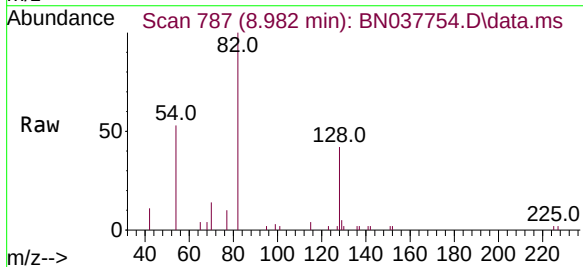
Instrument :
BNA_N
ClientSampleId :
RE122D1-20250909

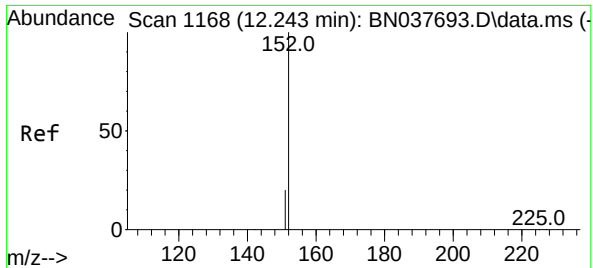
Tgt Ion:	136	Resp:	18549
Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.1	13.7
54	8.8	6.3	9.5
68	6.7	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.360 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

Tgt Ion:	82	Resp:	4878
Ion	Ratio	Lower	Upper
82	100		
128	41.5	38.3	57.5
54	53.3	41.4	62.2

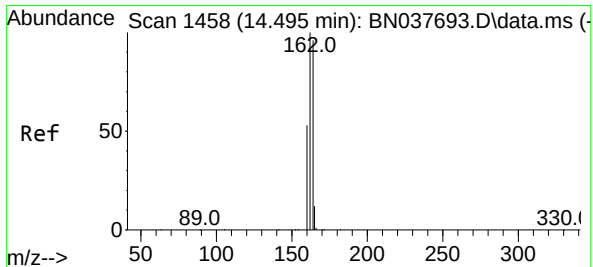
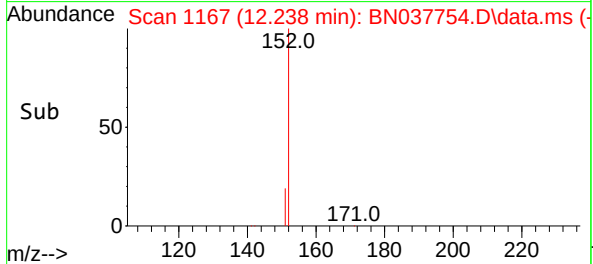
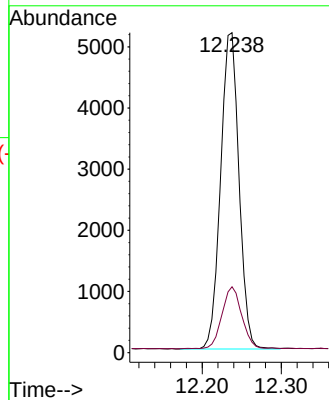
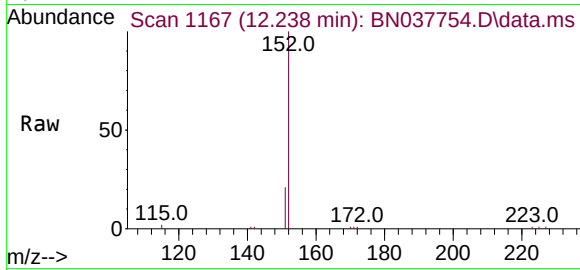




#11
2-Methylnaphthalene-d10
Concen: 0.338 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

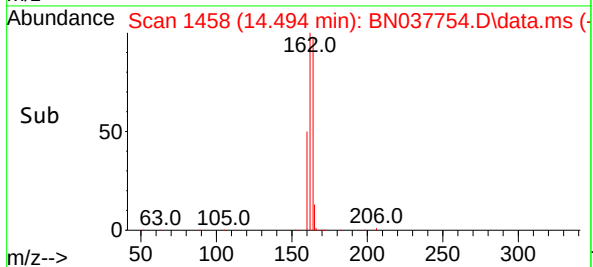
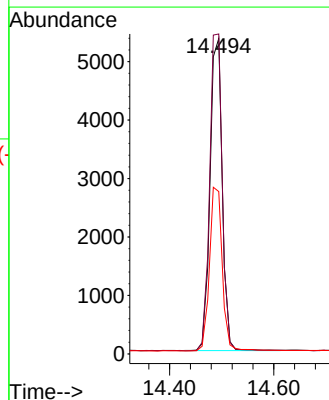
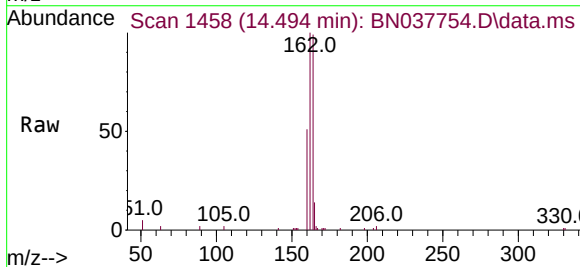
Instrument :
BNA_N
ClientSampleId :
RE122D1-20250909

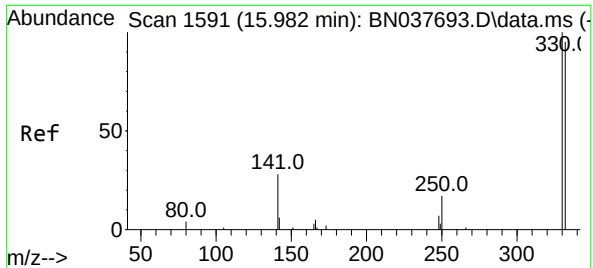
Tgt Ion:152 Resp: 8309
Ion Ratio Lower Upper
152 100
151 20.9 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

Tgt Ion:164 Resp: 8723
Ion Ratio Lower Upper
164 100
162 101.5 83.1 124.7
160 51.5 44.3 66.5

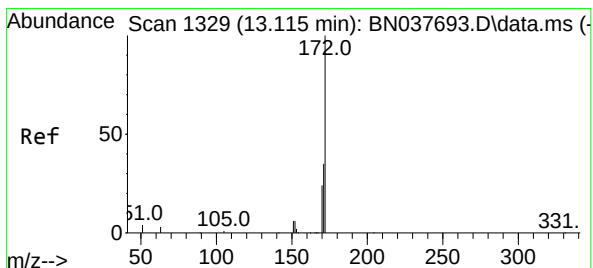
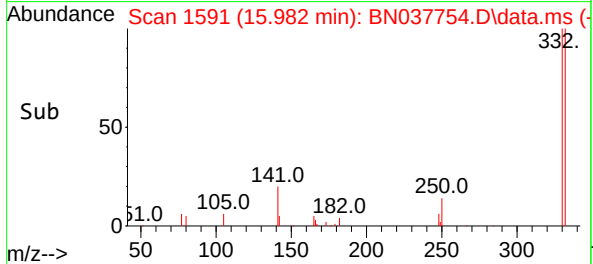
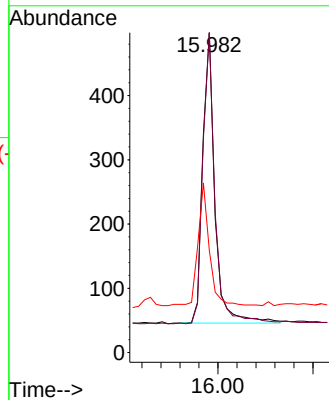
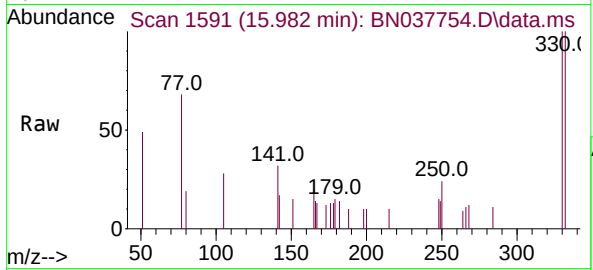




#14
2,4,6-Tribromophenol
Concen: 0.351 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

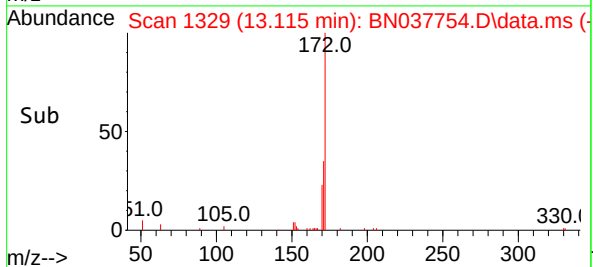
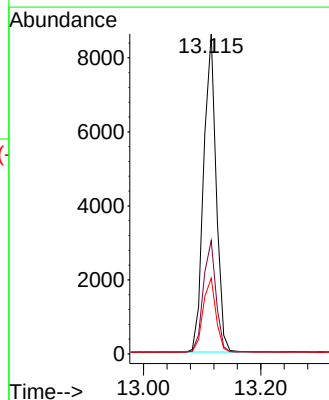
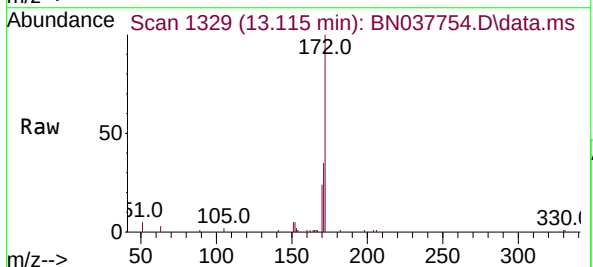
Instrument :
BNA_N
ClientSampleId :
RE122D1-20250909

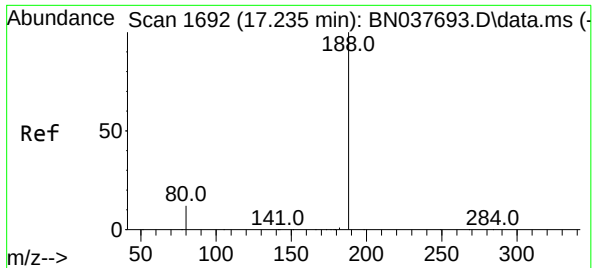
Tgt Ion	330	Ratio	100	Lower	75.3	Upper	112.9
332	100.0	75.3	112.9				
141	40.6	35.0	52.4				



#15
2-Fluorobiphenyl
Concen: 0.349 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

Tgt Ion	172	Ratio	100	Lower	28.6	Upper	43.0
171	35.4	28.6	43.0				
170	23.7	19.8	29.8				





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037754.D

Acq: 17 Sep 2025 20:01

Instrument :

BNA_N

ClientSampleId :

RE122D1-20250909

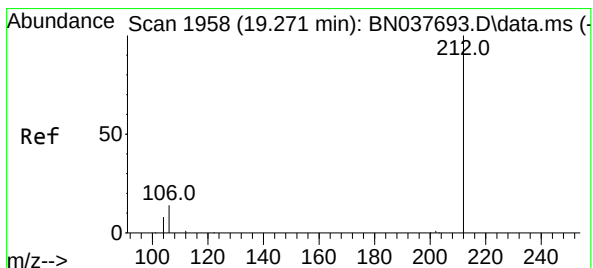
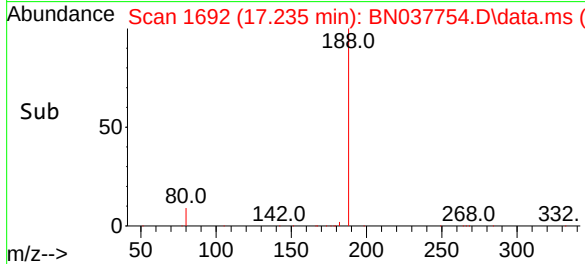
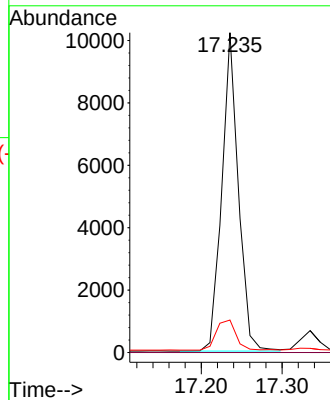
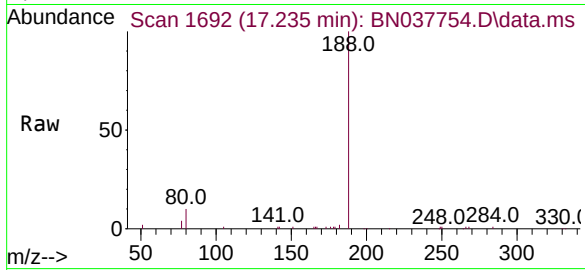
Tgt Ion:188 Resp: 14502

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.2 10.6 15.8#



#27

Fluoranthene-d10

Concen: 0.372 ng

RT: 19.266 min Scan# 1957

Delta R.T. -0.005 min

Lab File: BN037754.D

Acq: 17 Sep 2025 20:01

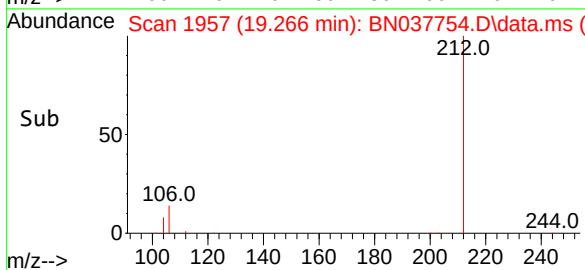
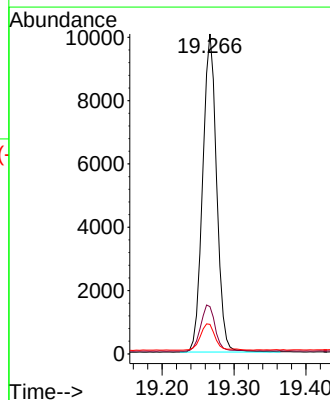
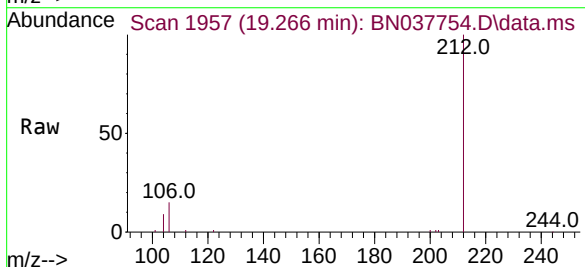
Tgt Ion:212 Resp: 13539

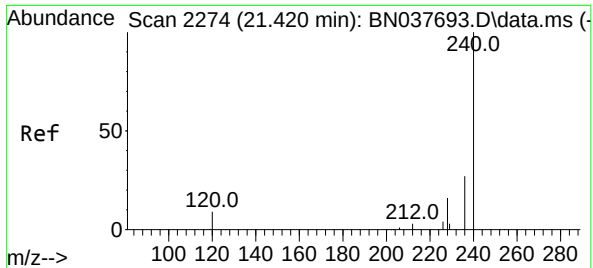
Ion Ratio Lower Upper

212 100

106 15.2 12.2 18.2

104 8.6 6.9 10.3

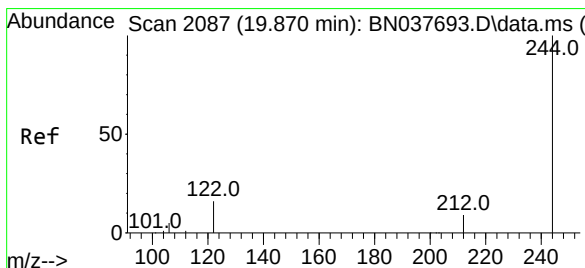
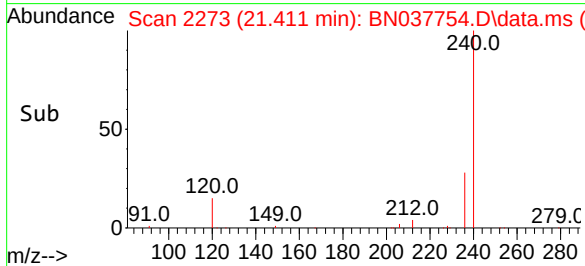
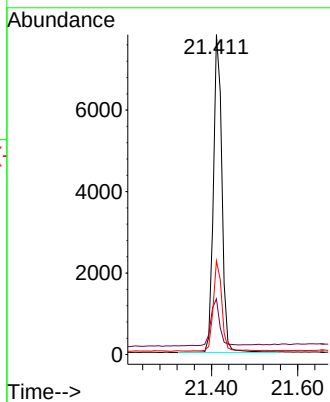
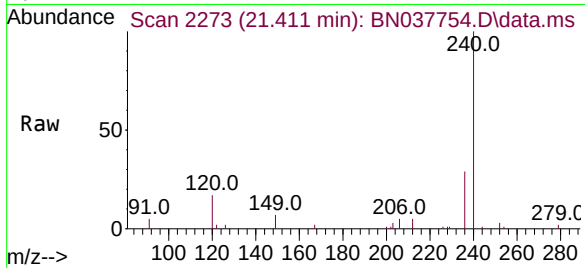




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

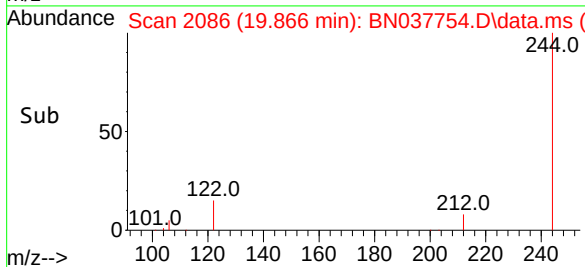
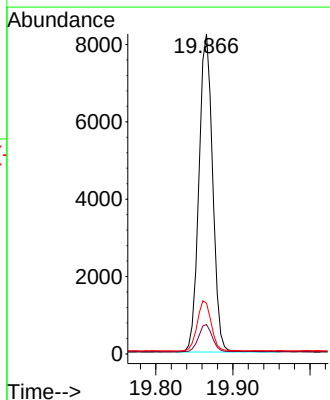
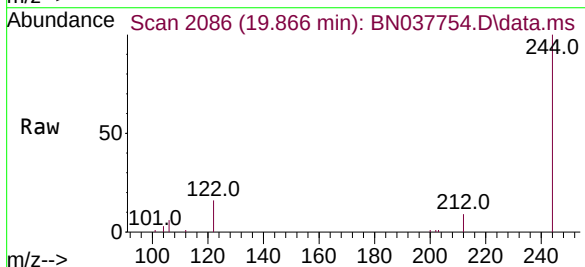
Instrument :
BNA_N
ClientSampleId :
RE122D1-20250909

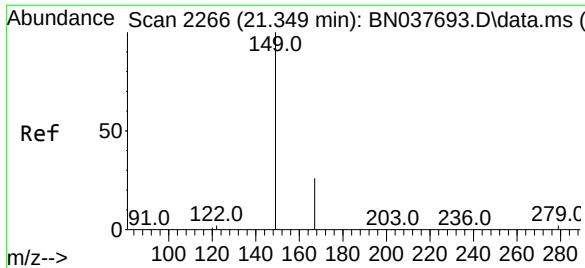
Tgt Ion	Ratio	Lower	Upper
240	100		
120	17.4	9.2	13.8#
236	29.3	22.6	33.8



#31
Terphenyl-d14
Concen: 0.463 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.2	7.5	11.3
122	15.8	13.2	19.8

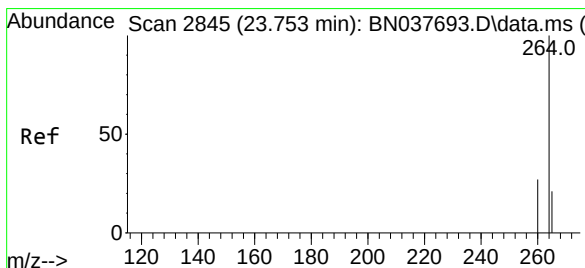
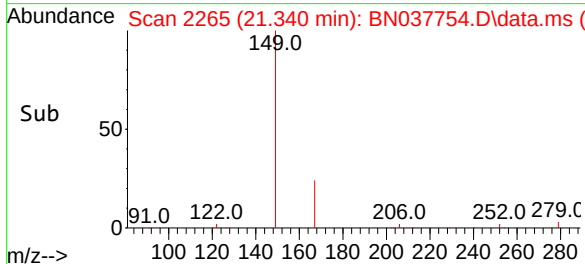
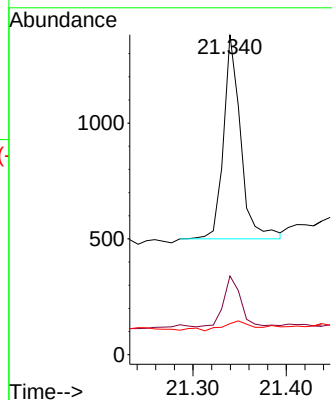
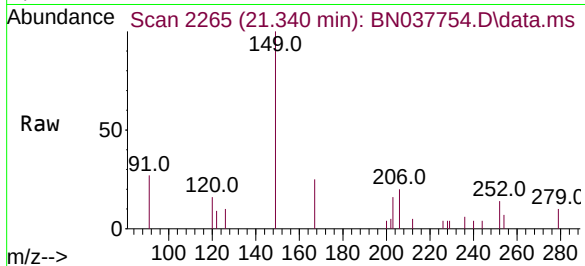




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.101 ng
RT: 21.340 min Scan# 2134
Delta R.T. -0.009 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

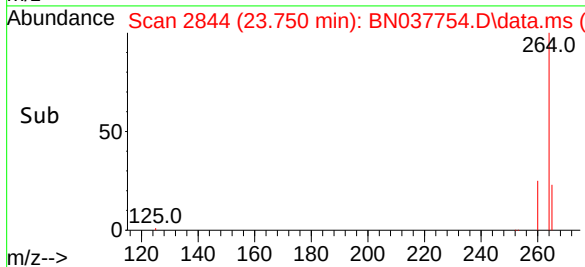
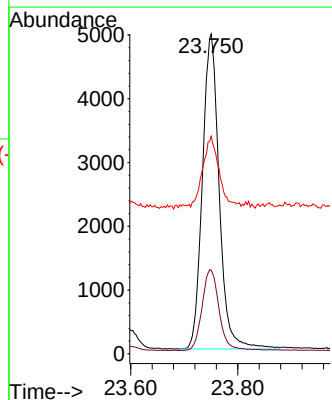
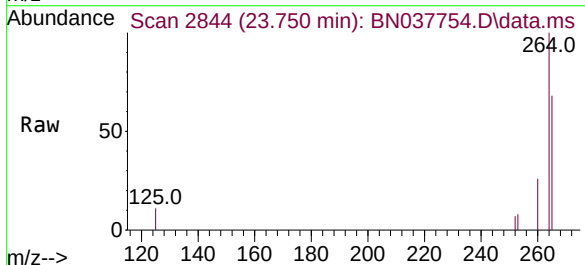
Instrument :
BNA_N
ClientSampleId :
RE122D1-20250909

Tgt Ion:149 Resp: 1128
Ion Ratio Lower Upper
149 100
167 25.4 20.8 31.2
279 7.7 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.750 min Scan# 2844
Delta R.T. -0.003 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

Tgt Ion:264 Resp: 10771
Ion Ratio Lower Upper
264 100
260 26.1 21.8 32.8
265 68.0 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	MW202D-20250909	SDG No.:	Q3095
Lab Sample ID:	Q3095-12	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
BN037761.D	1	09/15/25 10:15	09/18/25 03:58	PB169692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		77%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		84%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		87%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		100%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7230	7.833				
1146-65-2	Naphthalene-d8	19400	10.637				
15067-26-2	Acenaphthene-d10	8610	14.484				
1517-22-2	Phenanthrene-d10	15400	17.235				
1719-03-5	Chrysene-d12	12900	21.411				
1520-96-3	Perylene-d12	13100	23.741				

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\BN091725\
 Data File : BN037761.D
 Acq On : 18 Sep 2025 03:58
 Operator : RC/JU
 Sample : Q3095-12
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW202D-20250909

Quant Time: Sep 18 05:28:59 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

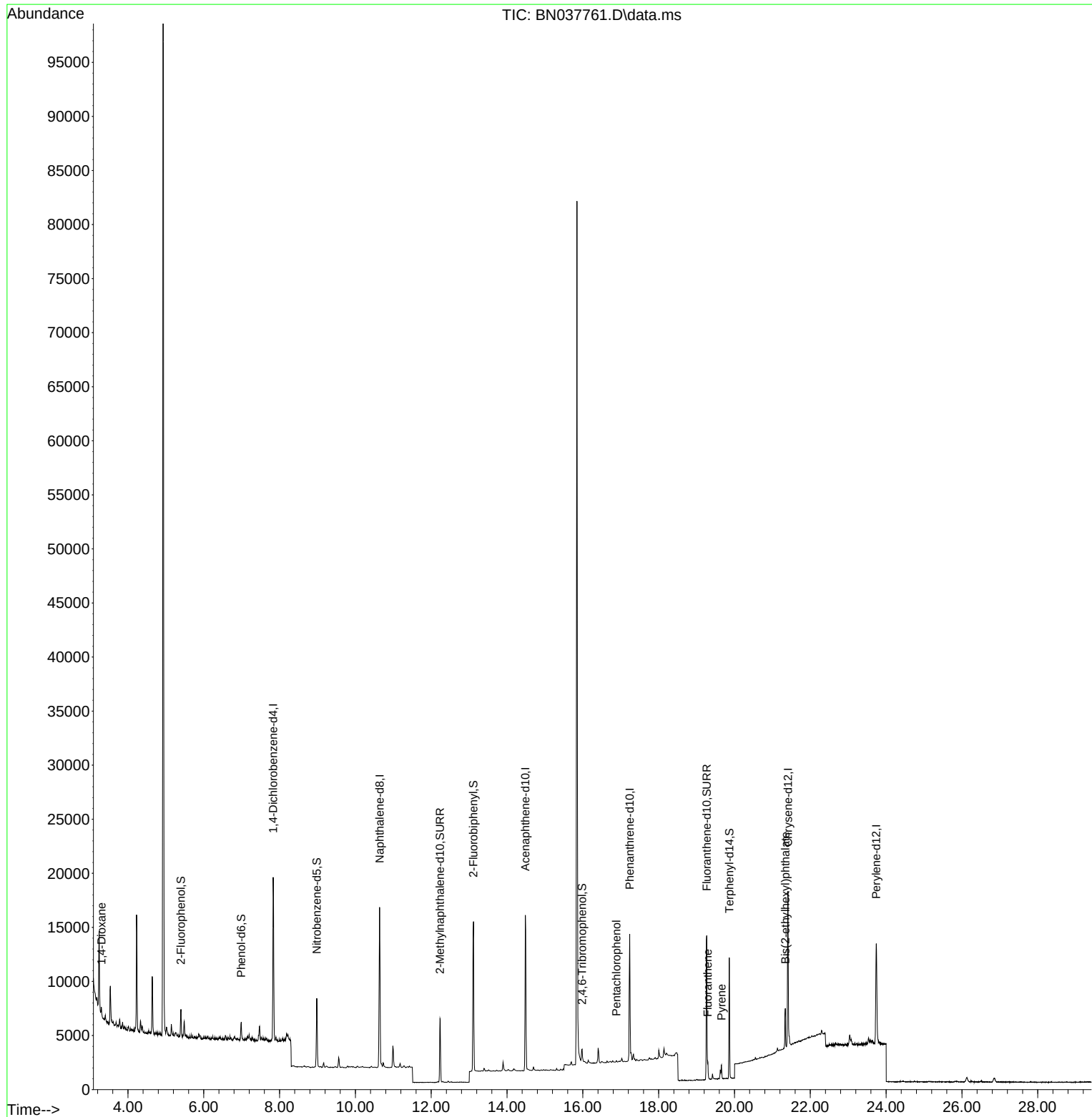
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7232	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	19420	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	8613	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	15444	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	12865	0.400	ng	0.00
35) Perylene-d12	23.741	264	13080	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2030	0.122	ng	0.00
5) Phenol-d6	6.988	99	1452	0.067	ng	0.00
8) Nitrobenzene-d5	8.982	82	4795	0.338	ng	-0.01
11) 2-Methylnaphthalene-d10	12.232	152	7932	0.308	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	820	0.365	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	12551	0.348	ng	0.00
27) Fluoranthene-d10	19.266	212	14609	0.377	ng	0.00
31) Terphenyl-d14	19.861	244	10464	0.401	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.304	88	413	0.055	ng	# 82
24) Pentachlorophenol	16.888	266	127	0.038	ng	# 83
28) Fluoranthene	19.294	202	1128	0.021	ng	# 81
30) Pyrene	19.657	202	1175	0.023	ng	# 94
34) Bis(2-ethylhexyl)phtha...	21.339	149	3713	0.279	ng	99

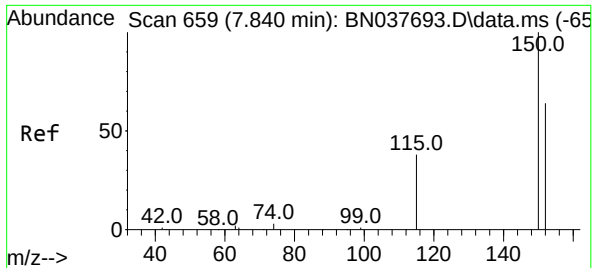
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037761.D
Acq On : 18 Sep 2025 03:58
Operator : RC/JU
Sample : Q3095-12
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW202D-20250909

Quant Time: Sep 18 05:28:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

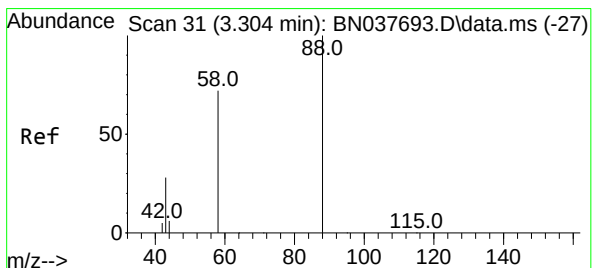
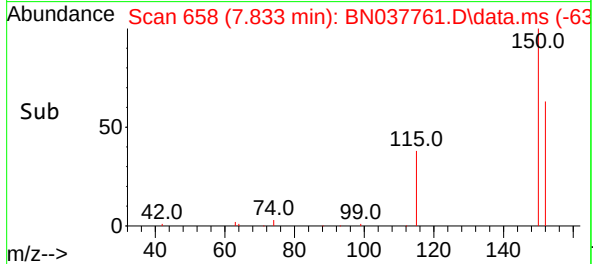
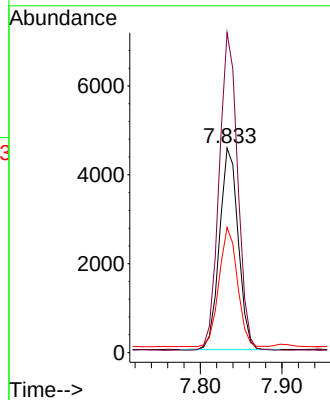
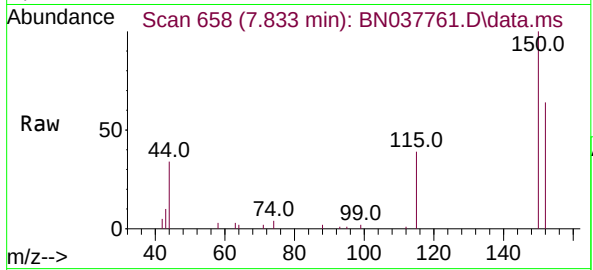




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

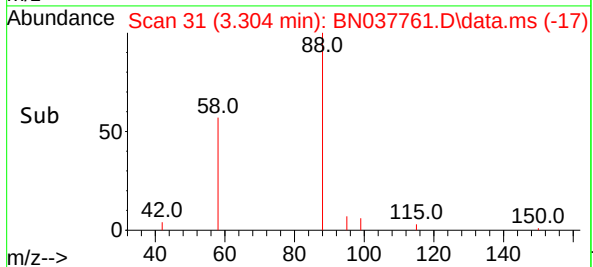
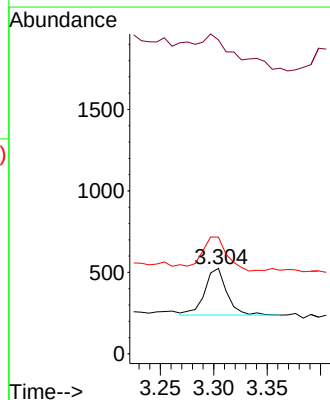
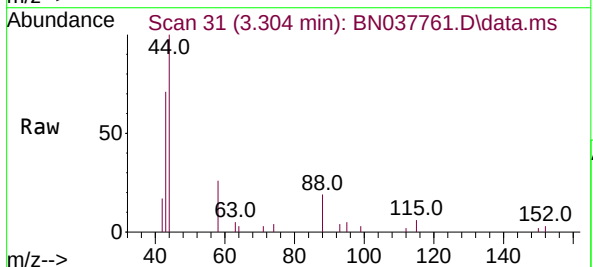
Instrument :
BNA_N
ClientSampleId :
MW202D-20250909

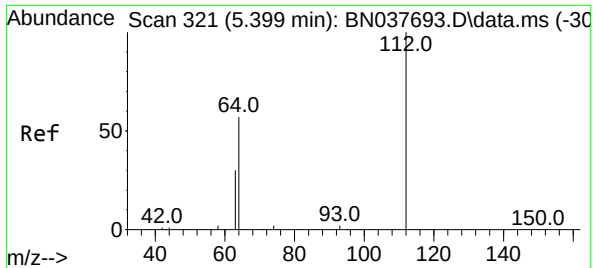
Tgt Ion:152 Resp: 7232
Ion Ratio Lower Upper
152 100
150 156.5 124.5 186.7
115 61.2 49.2 73.8



#2
1,4-Dioxane
Concen: 0.055 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

Tgt Ion: 88 Resp: 413
Ion Ratio Lower Upper
88 100
43 0.0 26.8 40.2#
58 77.0 61.9 92.9

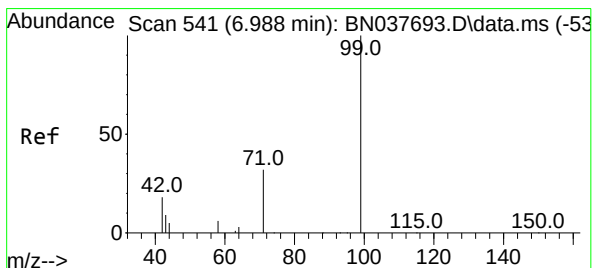
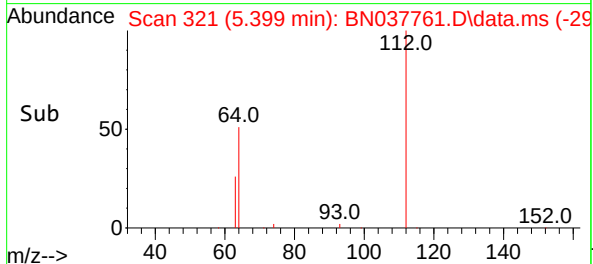
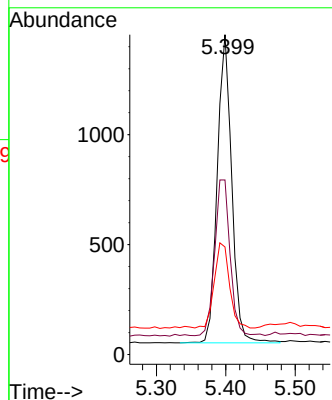
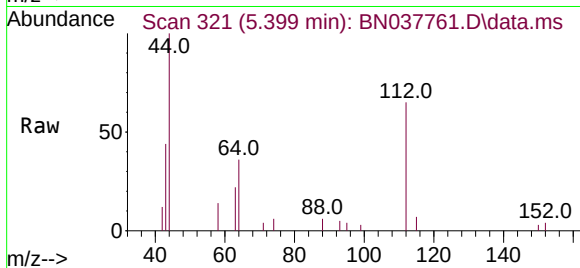




#4
2-Fluorophenol
Concen: 0.122 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

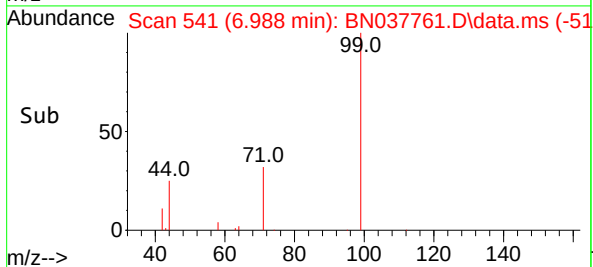
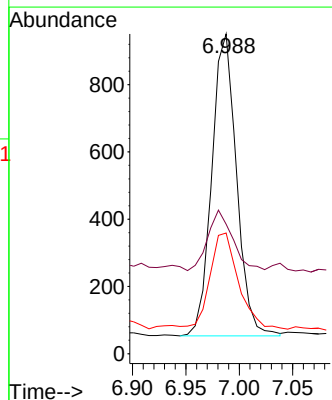
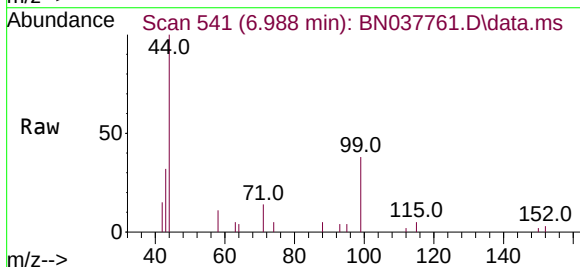
Instrument :
BNA_N
ClientSampleId :
MW202D-20250909

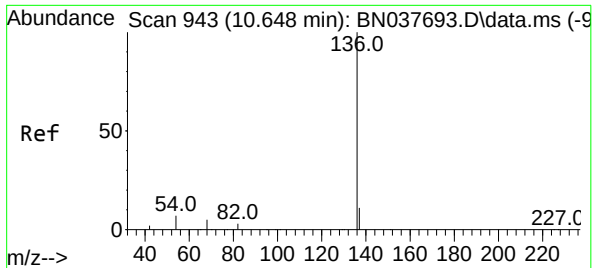
Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.7	44.9	67.3
63	28.7	24.7	37.1



#5
Phenol-d6
Concen: 0.067 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

Tgt Ion	Ratio	Lower	Upper
99	100		
42	19.9	16.6	24.8
71	38.4	26.7	40.1

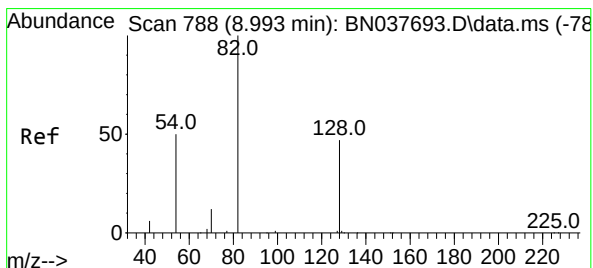
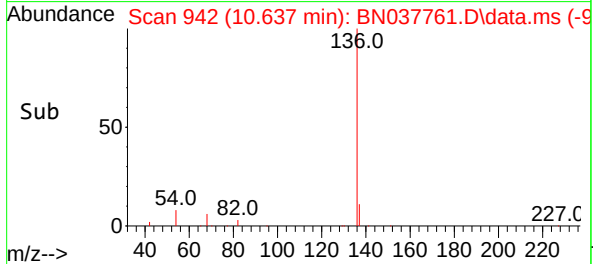
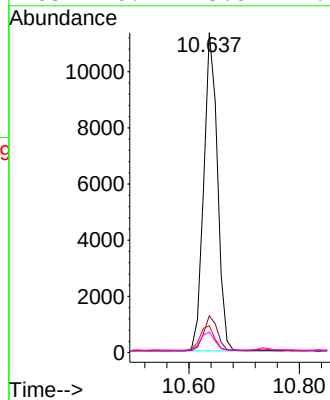
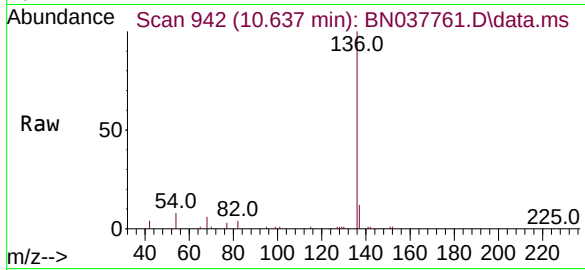




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

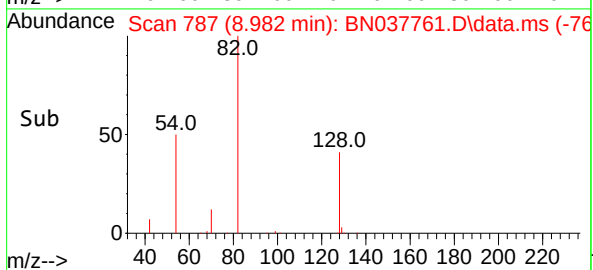
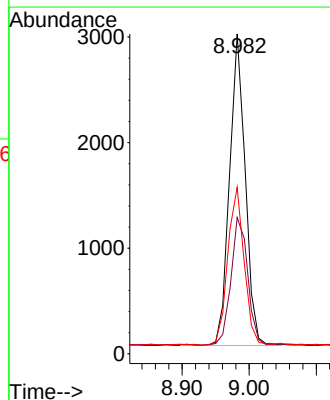
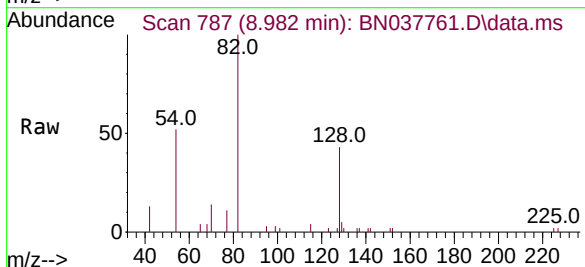
Instrument :
BNA_N
ClientSampleId :
MW202D-20250909

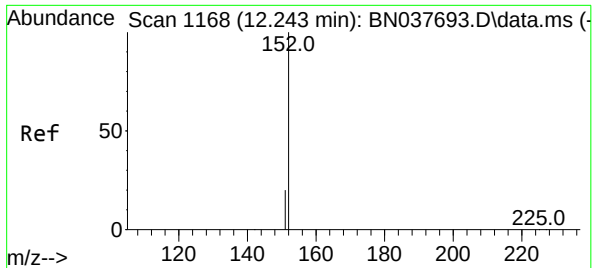
Tgt Ion:	136	Resp:	19420
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	8.4	6.3	9.5
68	6.4	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.338 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

Tgt Ion:	82	Resp:	4795
Ion	Ratio	Lower	Upper
82	100		
128	42.6	38.3	57.5
54	52.0	41.4	62.2

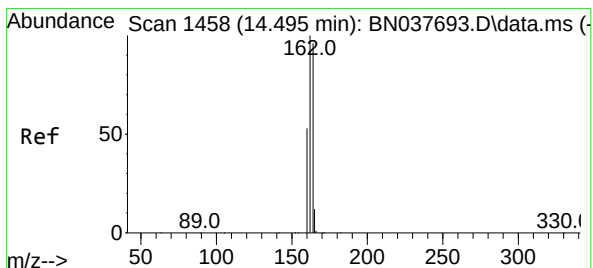
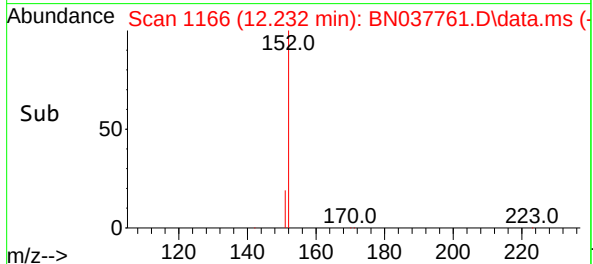
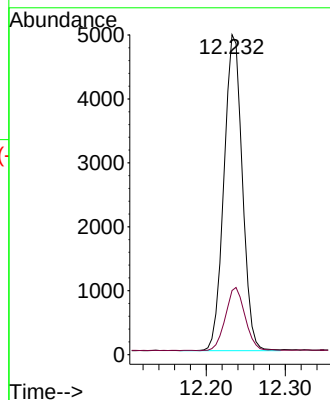
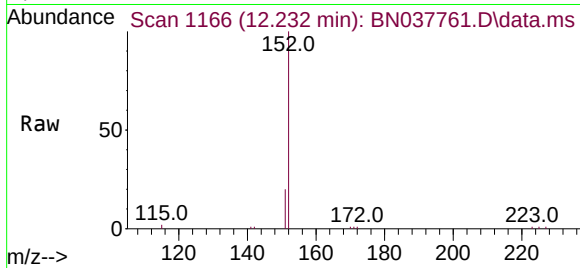




#11
2-Methylnaphthalene-d10
Concen: 0.308 ng
RT: 12.232 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

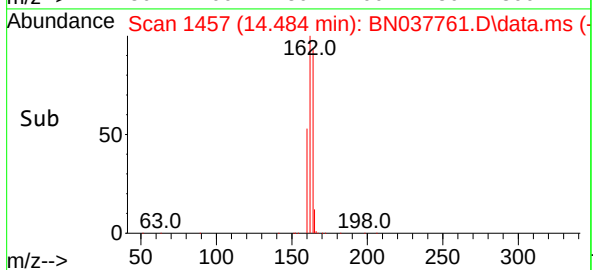
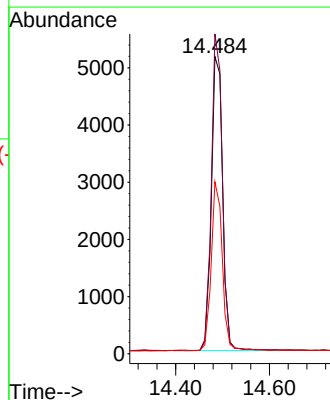
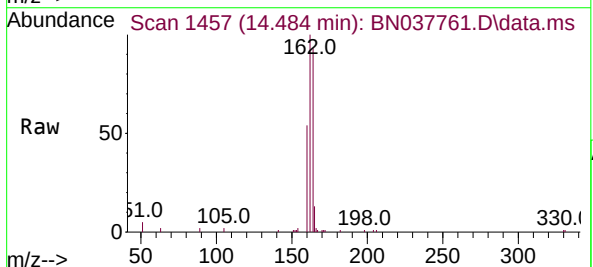
Instrument :
BNA_N
ClientSampleId :
MW202D-20250909

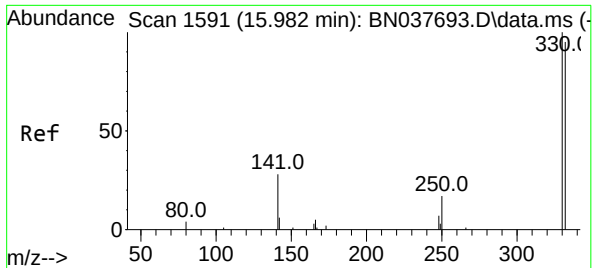
Tgt Ion:152 Resp: 7932
Ion Ratio Lower Upper
152 100
151 21.5 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

Tgt Ion:164 Resp: 8613
Ion Ratio Lower Upper
164 100
162 107.6 83.1 124.7
160 57.9 44.3 66.5

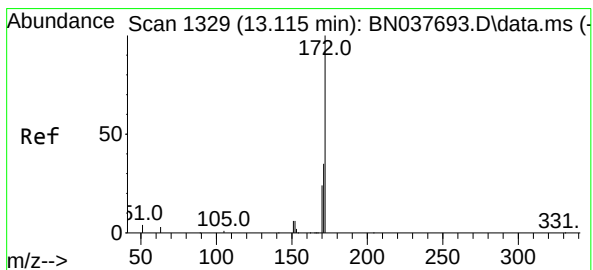
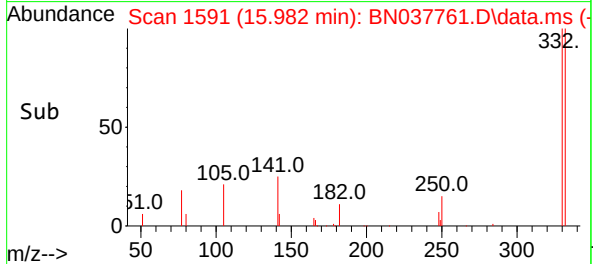
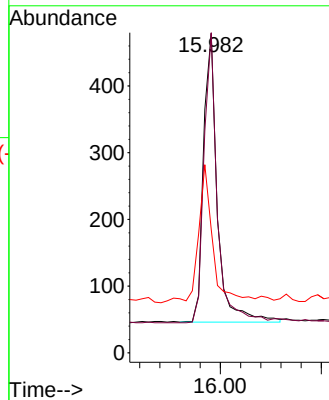
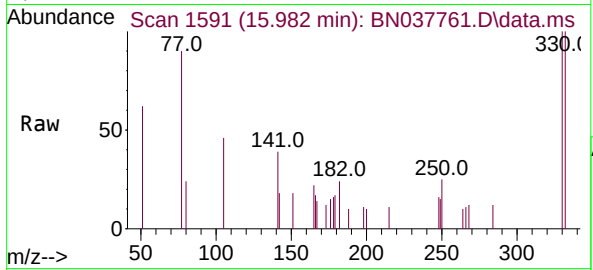




#14
2,4,6-Tribromophenol
Concen: 0.365 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

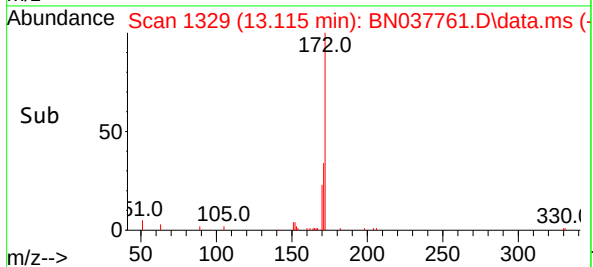
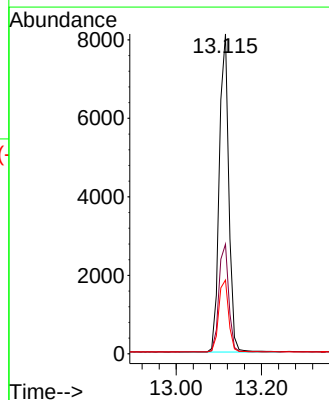
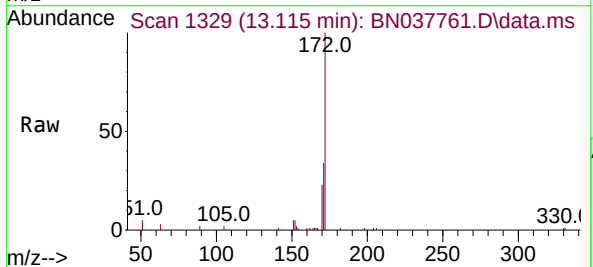
Instrument :
BNA_N
ClientSampleId :
MW202D-20250909

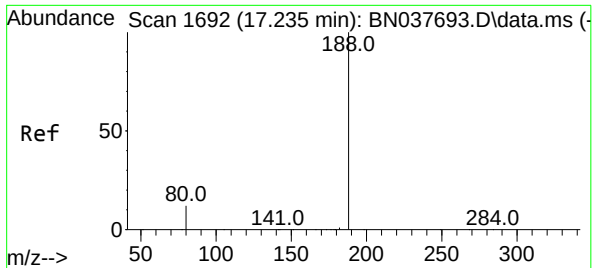
Tgt Ion:330 Resp: 820
Ion Ratio Lower Upper
330 100
332 97.0 75.3 112.9
141 49.9 35.0 52.4



#15
2-Fluorobiphenyl
Concen: 0.348 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

Tgt Ion:172 Resp: 12551
Ion Ratio Lower Upper
172 100
171 34.3 28.6 43.0
170 23.1 19.8 29.8

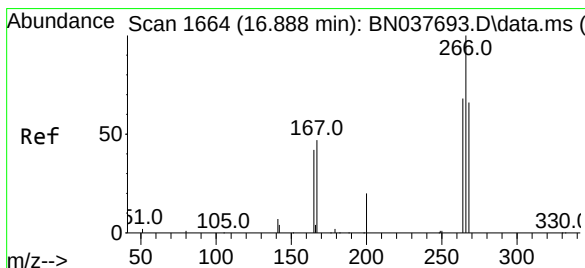
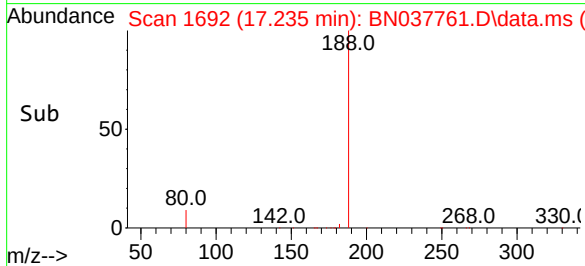
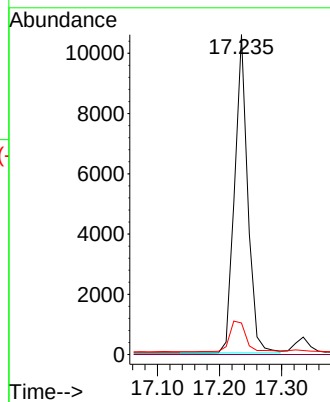
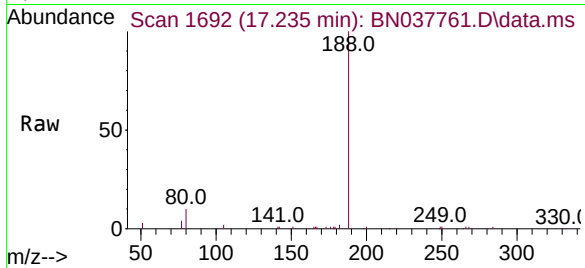




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

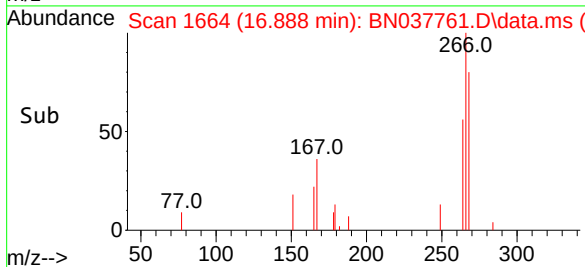
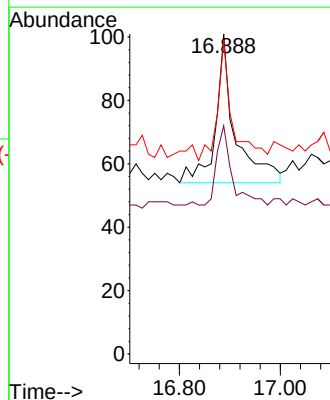
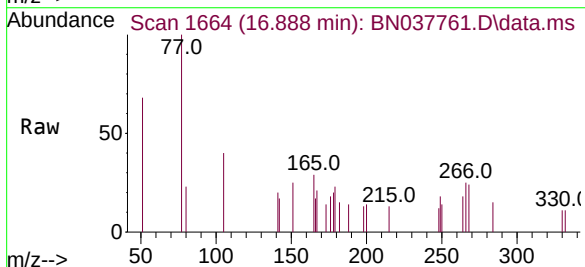
Instrument :
BNA_N
ClientSampleId :
MW202D-20250909

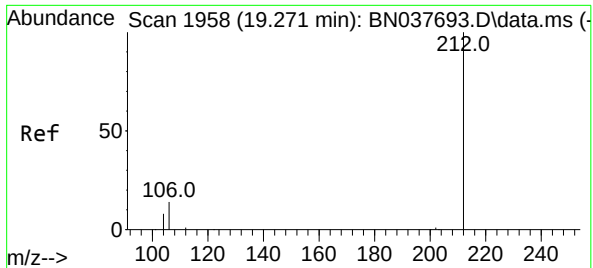
Tgt Ion:	188	Resp:	15444
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.8	10.6	15.8



#24
Pentachlorophenol
Concen: 0.038 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

Tgt Ion:	266	Resp:	127
Ion Ratio	Lower	Upper	
266	100		
264	44.1	51.6	77.4
268	60.6	53.2	79.8





#27

Fluoranthene-d10

Concen: 0.377 ng

RT: 19.266 min Scan# 1958

Delta R.T. -0.005 min

Lab File: BN037761.D

Acq: 18 Sep 2025 03:58

Instrument :

BNA_N

ClientSampleId :

MW202D-20250909

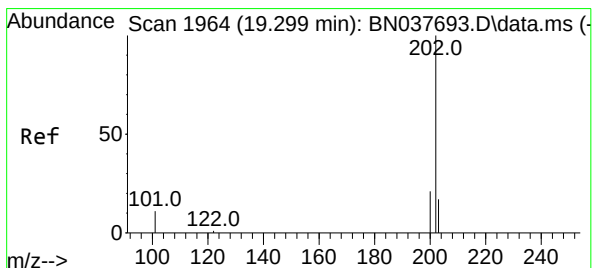
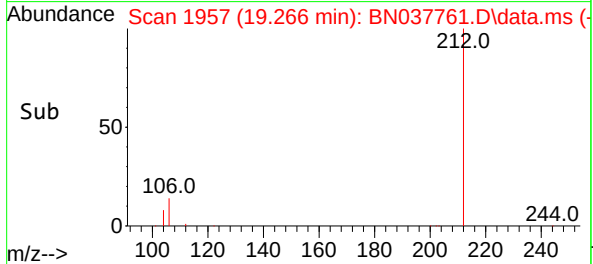
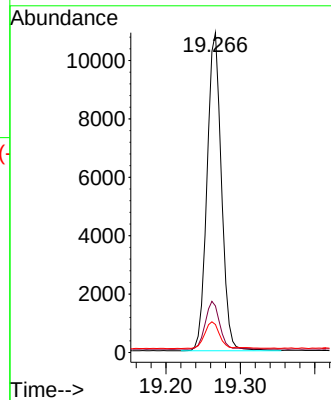
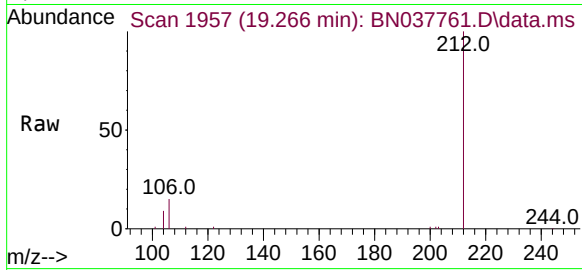
Tgt Ion:212 Resp: 14609

Ion Ratio Lower Upper

212 100

106 15.4 12.2 18.2

104 8.7 6.9 10.3



#28

Fluoranthene

Concen: 0.021 ng

RT: 19.294 min Scan# 1963

Delta R.T. -0.005 min

Lab File: BN037761.D

Acq: 18 Sep 2025 03:58

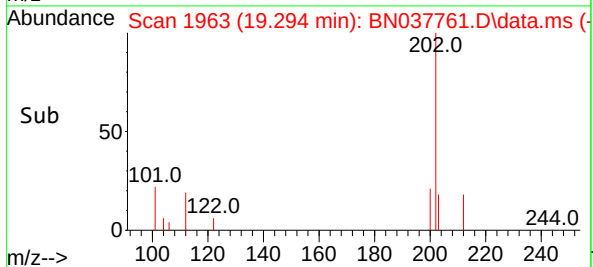
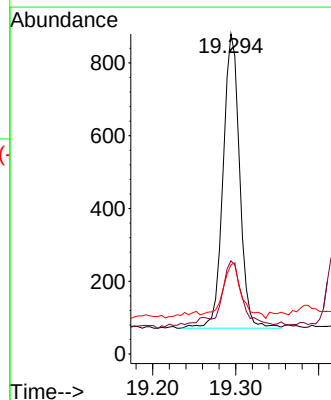
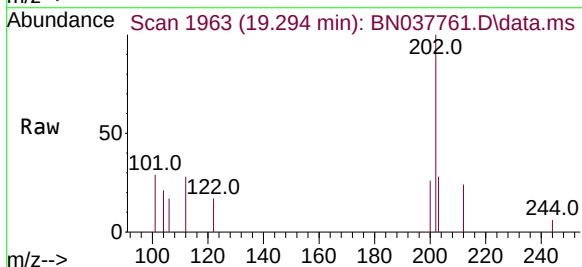
Tgt Ion:202 Resp: 1128

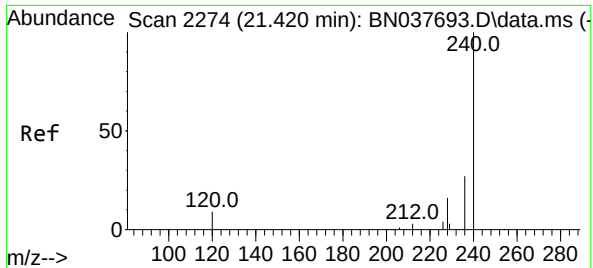
Ion Ratio Lower Upper

202 100

101 24.4 9.3 13.9#

203 21.1 13.7 20.5#

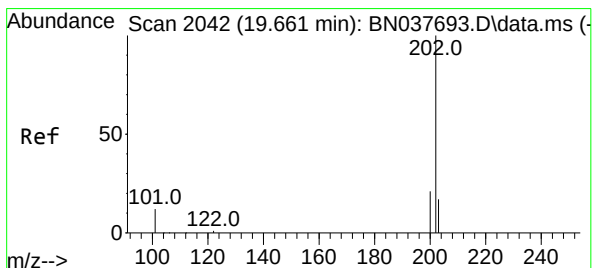
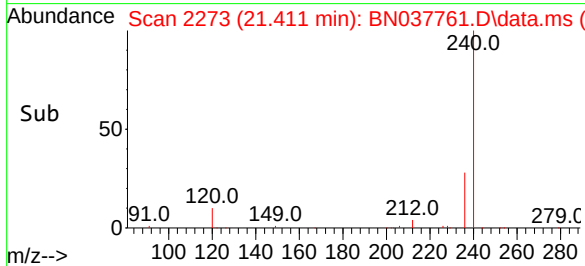
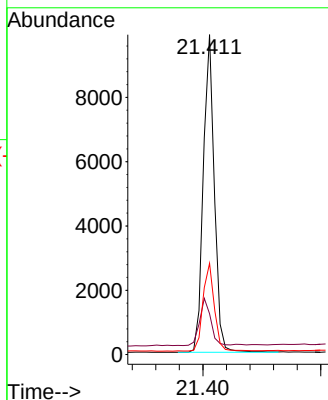
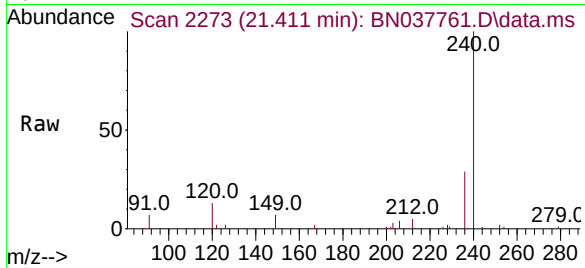




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

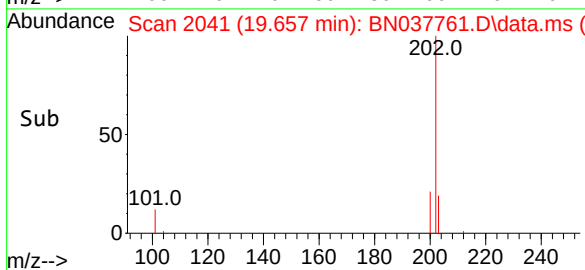
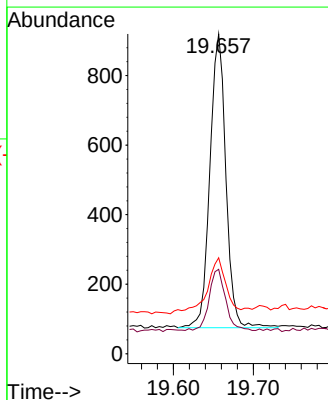
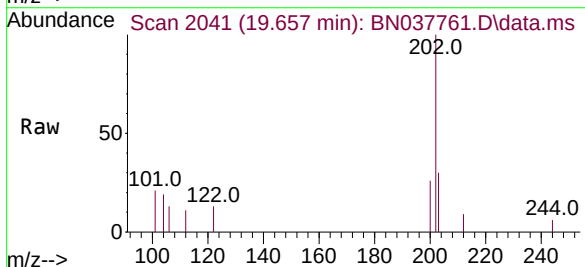
Instrument :
BNA_N
ClientSampleId :
MW202D-20250909

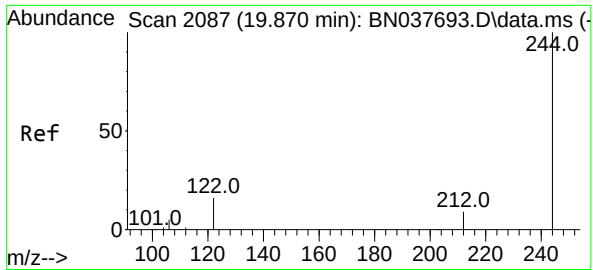
Tgt Ion:240 Resp: 12865
Ion Ratio Lower Upper
240 100
120 12.8 9.2 13.8
236 28.5 22.6 33.8



#30
Pyrene
Concen: 0.023 ng
RT: 19.657 min Scan# 2041
Delta R.T. -0.005 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

Tgt Ion:202 Resp: 1175
Ion Ratio Lower Upper
202 100
200 21.7 16.8 25.2
203 22.8 14.3 21.5#

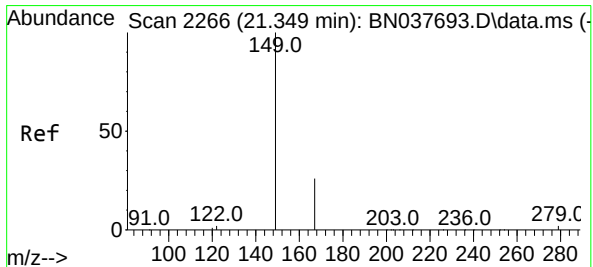
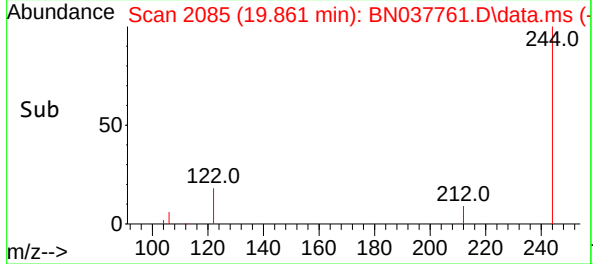
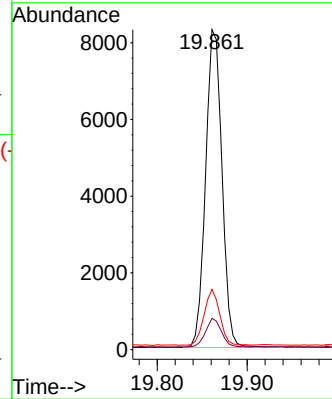
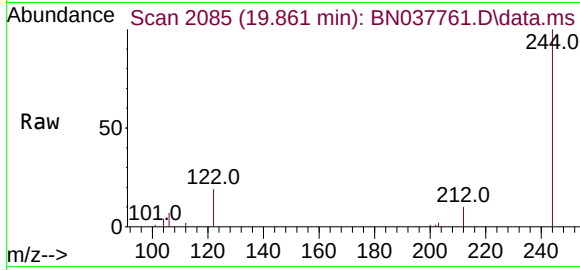




#31
Terphenyl-d14
Concen: 0.401 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

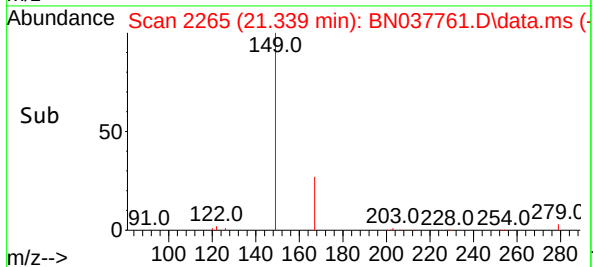
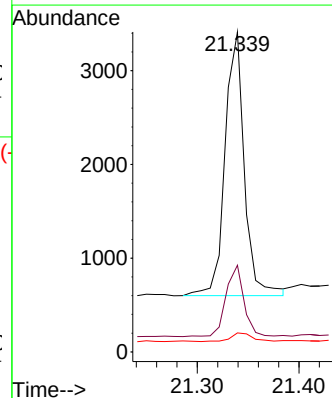
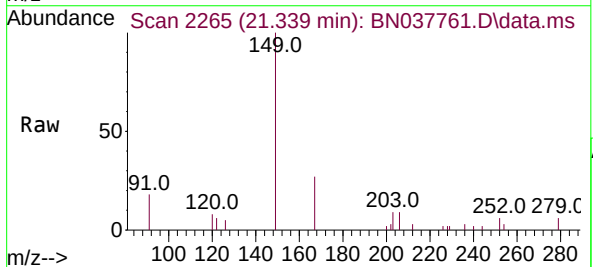
Instrument :
BNA_N
ClientSampleId :
MW202D-20250909

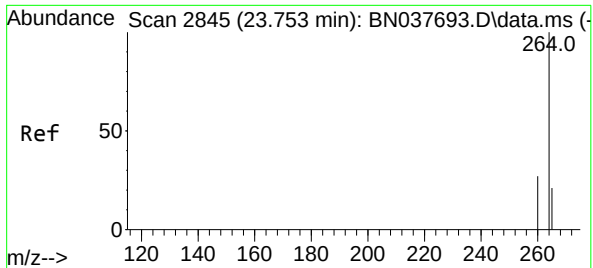
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.8	7.5	11.3
122	18.8	13.2	19.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.279 ng
RT: 21.339 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.3	20.8	31.2
279	3.7	3.3	4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.741 min Scan# 2845

Delta R.T. -0.012 min

Lab File: BN037761.D

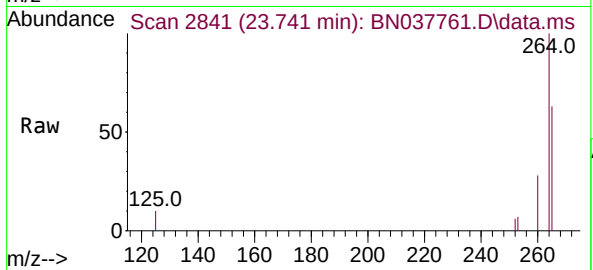
Acq: 18 Sep 2025 03:58

Instrument :

BNA_N

ClientSampleId :

MW202D-20250909



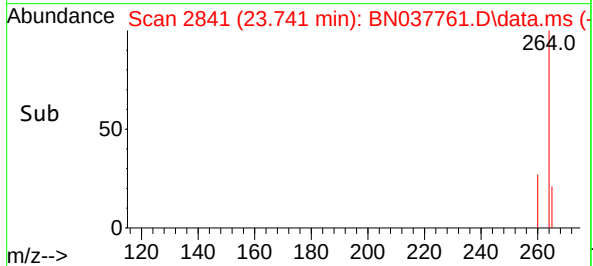
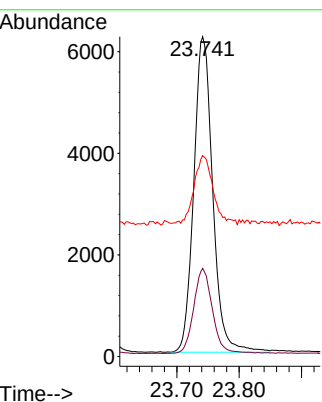
Tgt Ion:264 Resp: 13080

Ion	Ratio	Lower	Upper

264	100		

260	27.6	21.8	32.8

265	62.8	39.4	59.2



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	MW178I1-20250909	SDG No.:	Q3095
Lab Sample ID:	Q3095-13	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
BN037755.D	1	09/15/25 10:15	09/17/25 20:37	PB169692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.66		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		73%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		78%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		80%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		95%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6480	7.833				
1146-65-2	Naphthalene-d8	17500	10.637				
15067-26-2	Acenaphthene-d10	7820	14.494				
1517-22-2	Phenanthrene-d10	14500	17.235				
1719-03-5	Chrysene-d12	12700	21.411				
1520-96-3	Perylene-d12	12700	23.75				

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\BN091725\
 Data File : BN037755.D
 Acq On : 17 Sep 2025 20:37
 Operator : RC/JU
 Sample : Q3095-13
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW17811-20250909

Quant Time: Sep 18 05:01:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

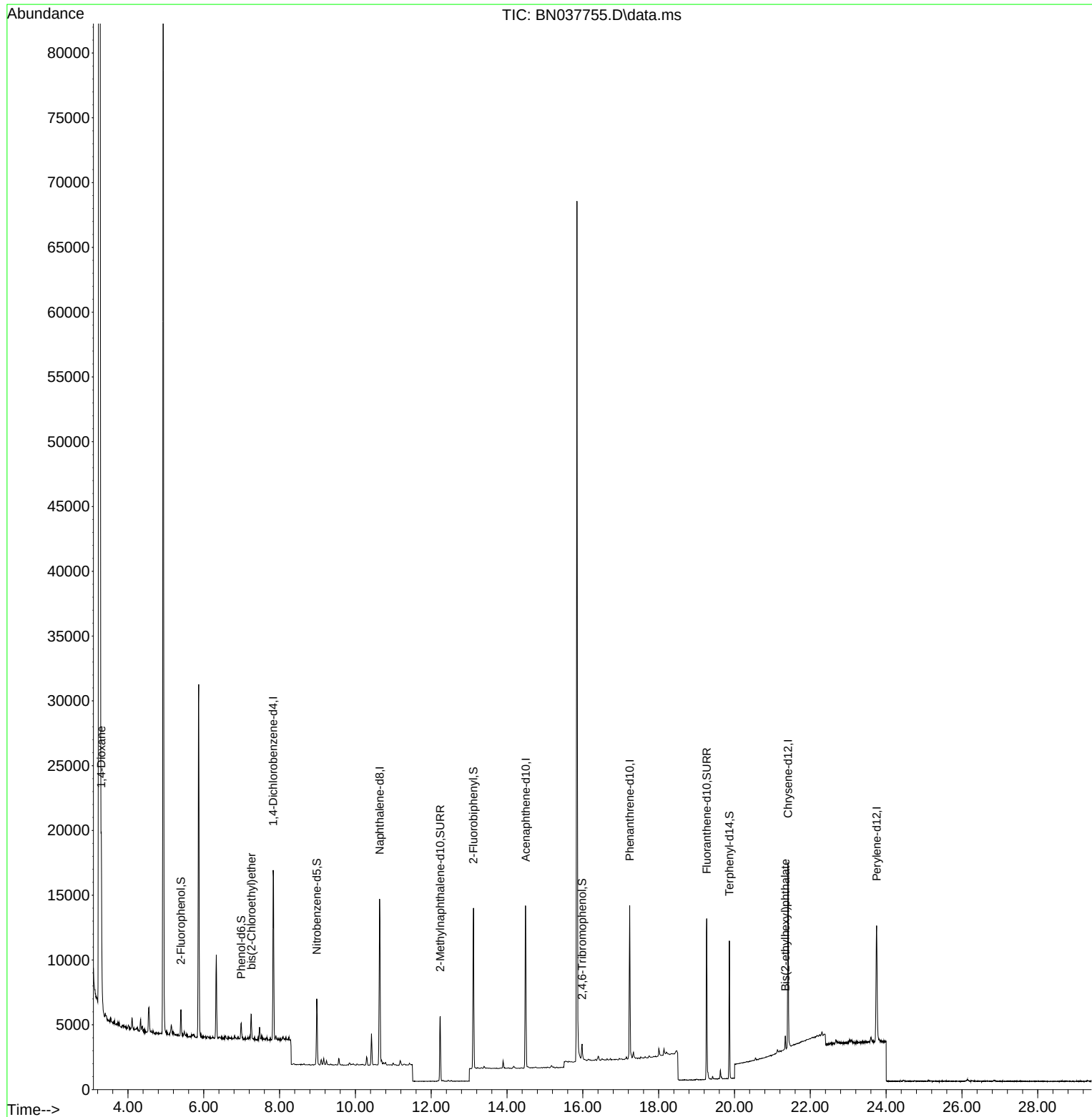
Internal Standards					
1) 1,4-Dichlorobenzene-d4	7.833	152	6476	0.400 ng	0.00
7) Naphthalene-d8	10.637	136	17530	0.400 ng	-0.01
13) Acenaphthene-d10	14.494	164	7818	0.400 ng	0.00
19) Phenanthrene-d10	17.235	188	14505	0.400 ng	# 0.00
29) Chrysene-d12	21.411	240	12734	0.400 ng	# 0.00
35) Perylene-d12	23.750	264	12709	0.400 ng	# 0.00
System Monitoring Compounds					
4) 2-Fluorophenol	5.399	112	1660	0.112 ng	0.00
5) Phenol-d6	6.988	99	1198	0.062 ng	0.00
8) Nitrobenzene-d5	8.982	82	3998	0.312 ng	-0.01
11) 2-Methylnaphthalene-d10	12.238	152	6784	0.292 ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	754	0.370 ng	0.00
15) 2-Fluorobiphenyl	13.115	172	10455	0.320 ng	0.00
27) Fluoranthene-d10	19.266	212	13269	0.364 ng	0.00
31) Terphenyl-d14	19.866	244	9829	0.380 ng	0.00
Target Compounds					
2) 1,4-Dioxane	3.297	88	4441	0.658 ng	# 90
6) bis(2-Chloroethyl)ether	7.255	93	1405	0.082 ng	98
34) Bis(2-ethylhexyl)phtha...	21.340	149	1079	0.082 ng	98

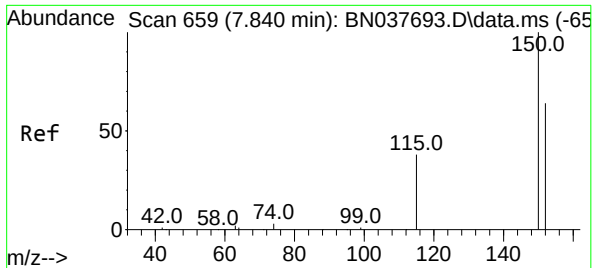
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037755.D
Acq On : 17 Sep 2025 20:37
Operator : RC/JU
Sample : Q3095-13
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW17811-20250909

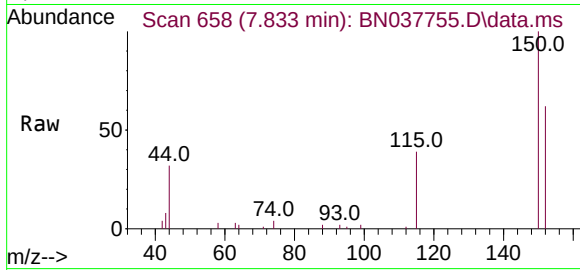
Quant Time: Sep 18 05:01:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



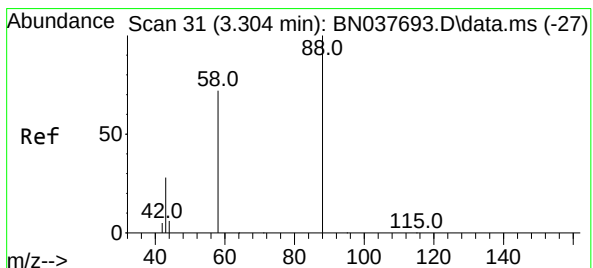
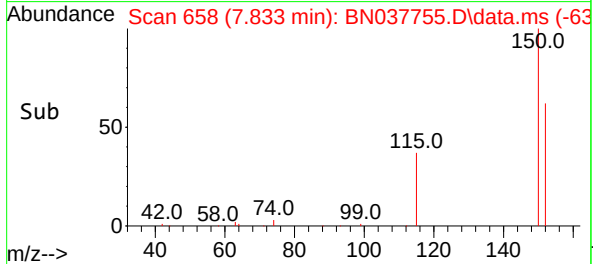
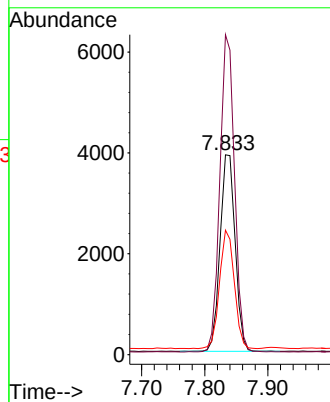


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

Instrument :
BNA_N
ClientSampleId :
MW17811-20250909

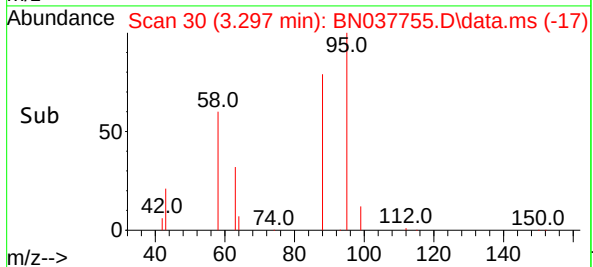
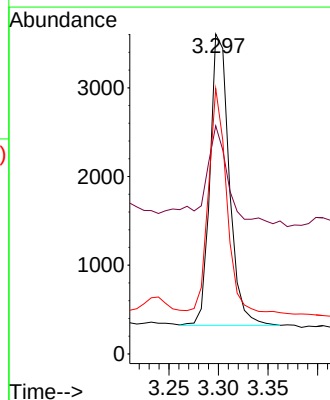
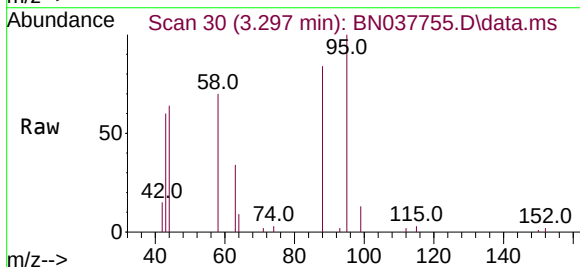


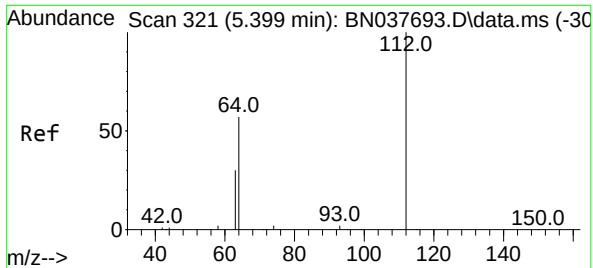
Tgt Ion:152 Resp: 6476
Ion Ratio Lower Upper
152 100
150 160.2 124.5 186.7
115 62.3 49.2 73.8



#2
1,4-Dioxane
Concen: 0.658 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

Tgt Ion: 88 Resp: 4441
Ion Ratio Lower Upper
88 100
43 46.3 26.8 40.2#
58 73.0 61.9 92.9

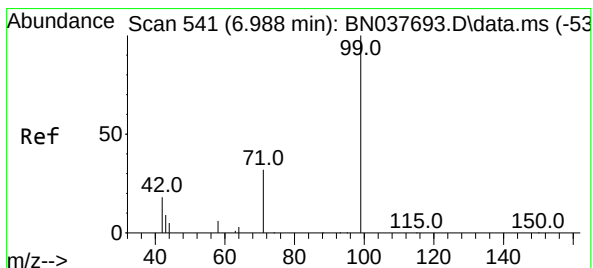
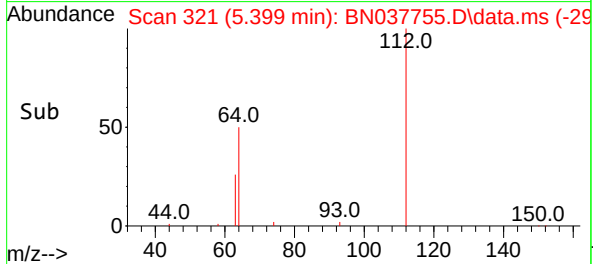
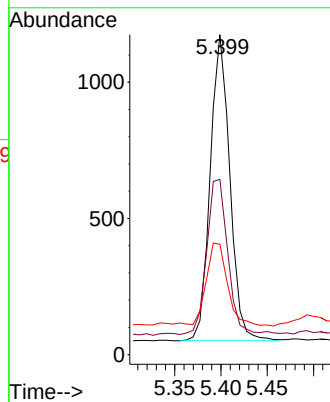
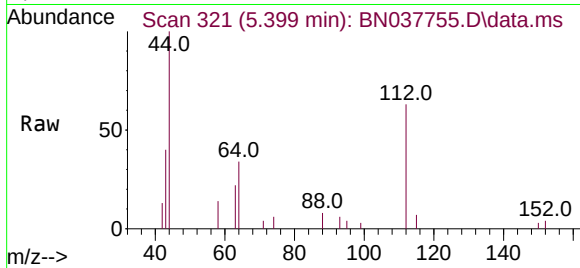




#4
2-Fluorophenol
Concen: 0.112 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

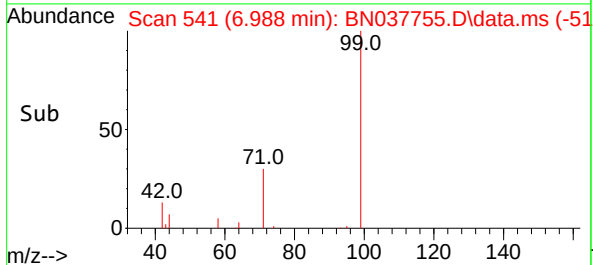
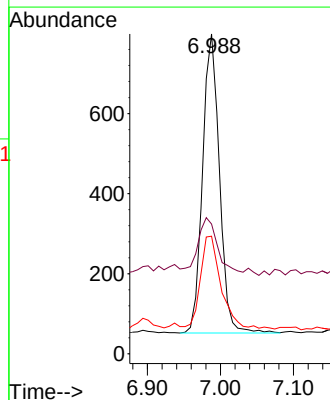
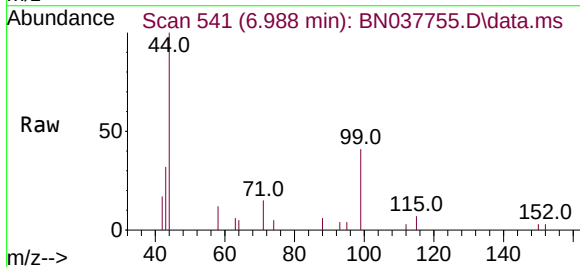
Instrument :
BNA_N
ClientSampleId :
MW17811-20250909

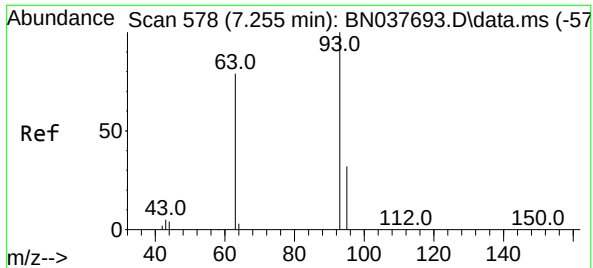
Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.6	44.9	67.3
63	29.5	24.7	37.1



#5
Phenol-d6
Concen: 0.062 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.1	16.6	24.8
71	38.1	26.7	40.1

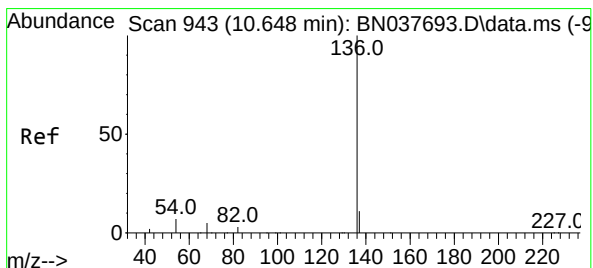
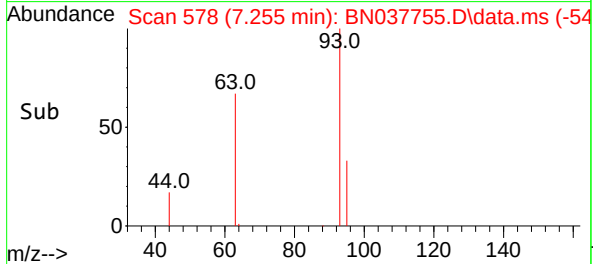
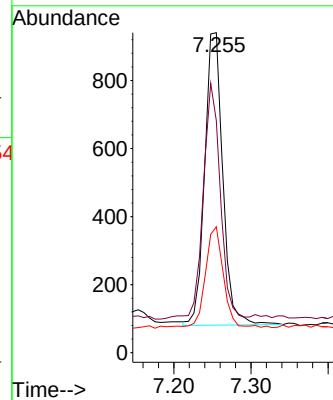
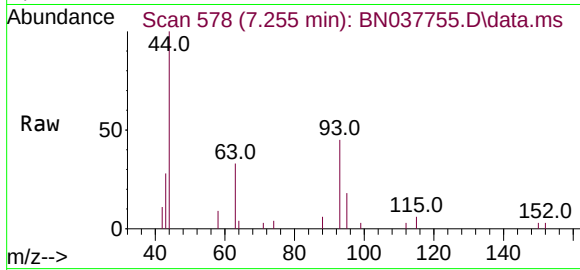




#6
bis(2-Chloroethyl)ether
Concen: 0.082 ng
RT: 7.255 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

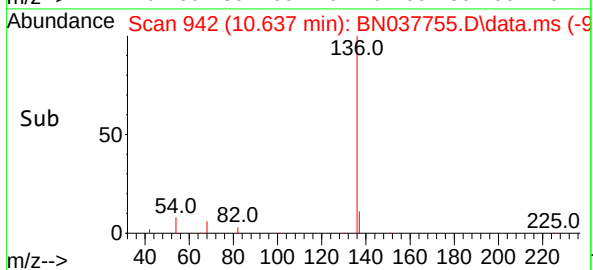
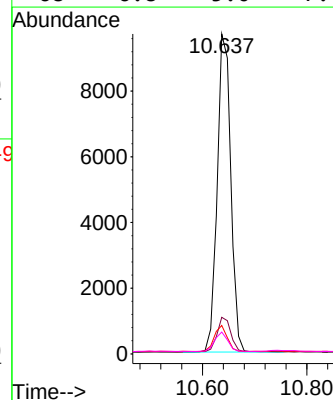
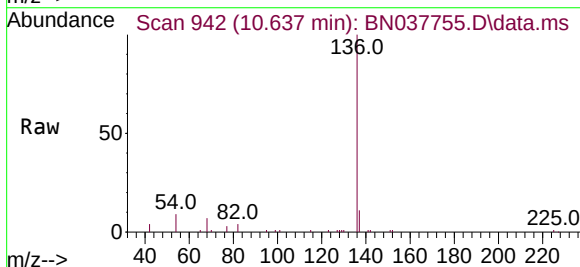
Instrument :
BNA_N
ClientSampleId :
MW17811-20250909

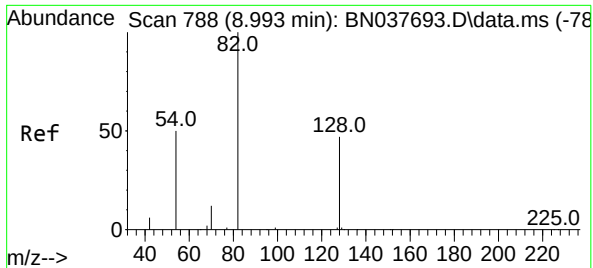
Tgt Ion:	93	Resp:	1405
Ion	Ratio	Lower	Upper
93	100		
63	76.2	60.6	90.8
95	35.7	26.0	39.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

Tgt Ion:	136	Resp:	17530
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	8.9	6.3	9.5
68	6.8	5.0	7.4

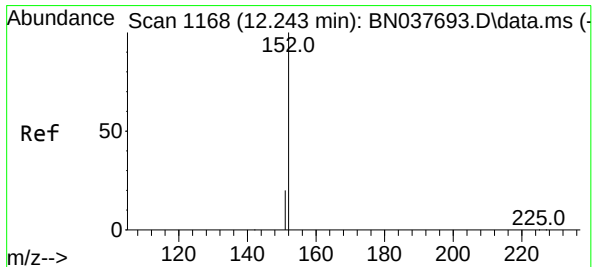
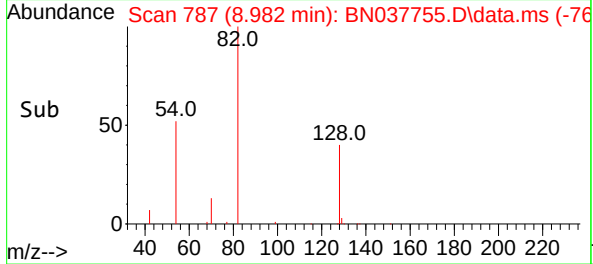
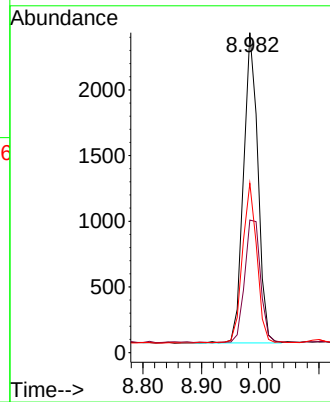
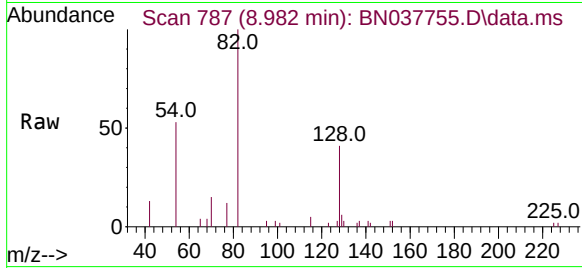




#8
Nitrobenzene-d5
Concen: 0.312 ng
RT: 8.982 min Scan# 788
Delta R.T. -0.011 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

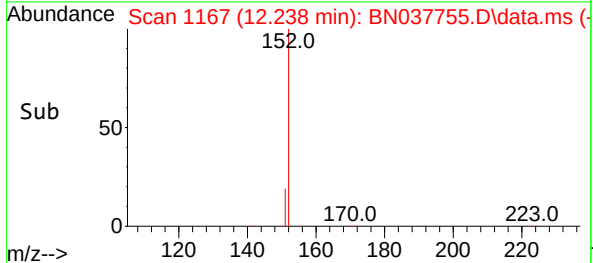
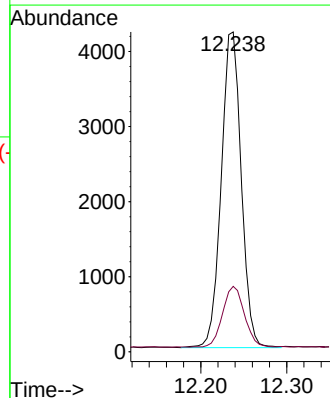
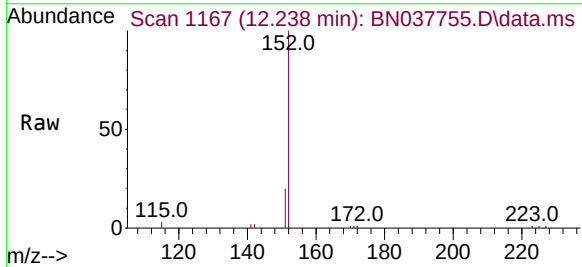
Instrument :
BNA_N
ClientSampleId :
MW17811-20250909

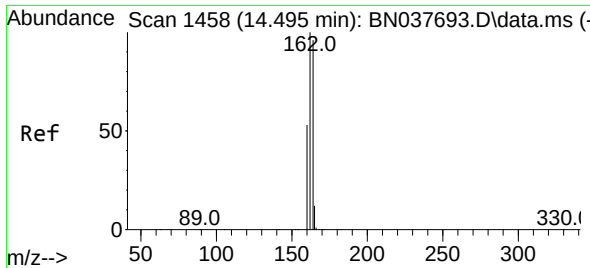
Tgt Ion:	82	Resp:	3998
Ion Ratio	Lower	Upper	
82	100		
128	41.4	38.3	57.5
54	52.9	41.4	62.2



#11
2-Methylnaphthalene-d10
Concen: 0.292 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

Tgt Ion:	152	Resp:	6784
Ion Ratio	Lower	Upper	
152	100		
151	21.0	17.0	25.6

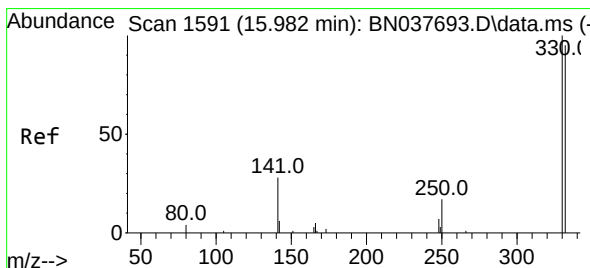
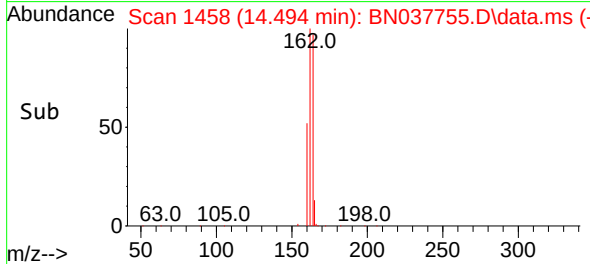
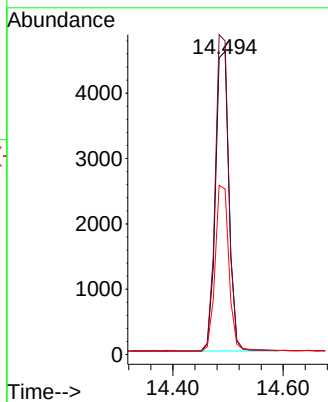
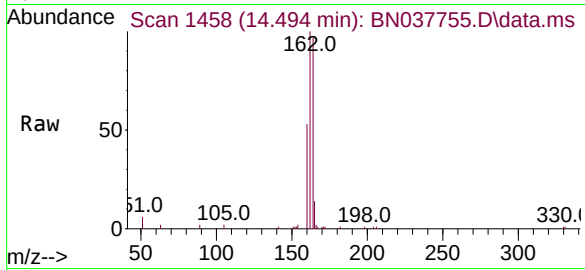




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

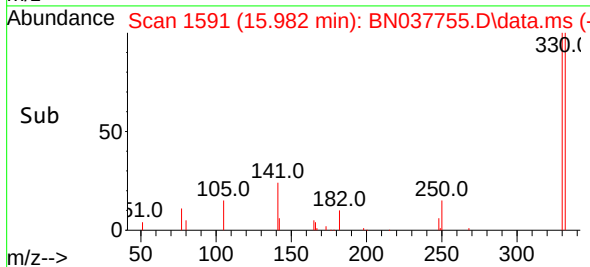
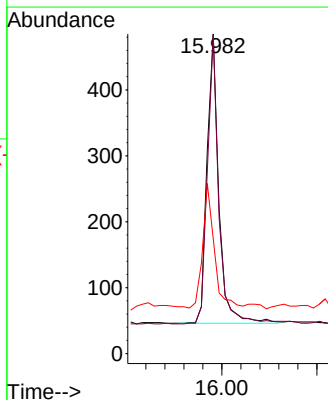
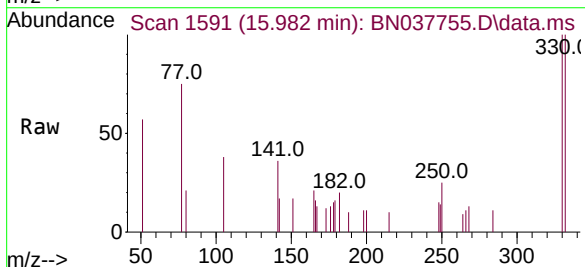
Instrument :
BNA_N
ClientSampleId :
MW17811-20250909

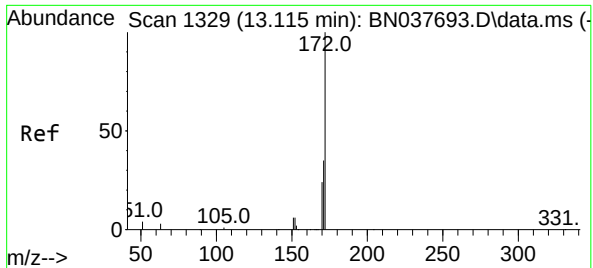
Tgt Ion:164 Resp: 7818
Ion Ratio Lower Upper
164 100
162 103.5 83.1 124.7
160 54.7 44.3 66.5



#14
2,4,6-Tribromophenol
Concen: 0.370 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

Tgt Ion:330 Resp: 754
Ion Ratio Lower Upper
330 100
332 96.6 75.3 112.9
141 43.4 35.0 52.4

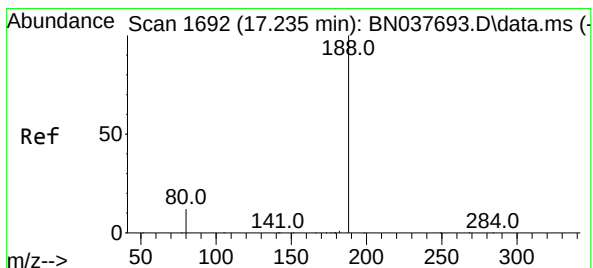
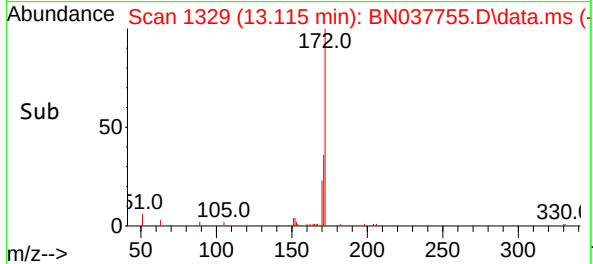
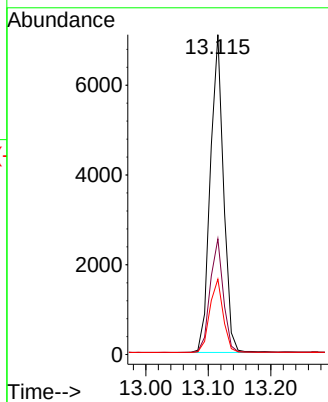
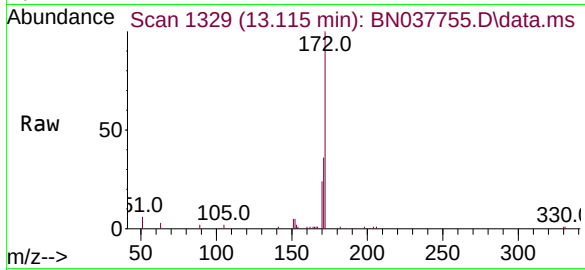




#15
2-Fluorobiphenyl
Concen: 0.320 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

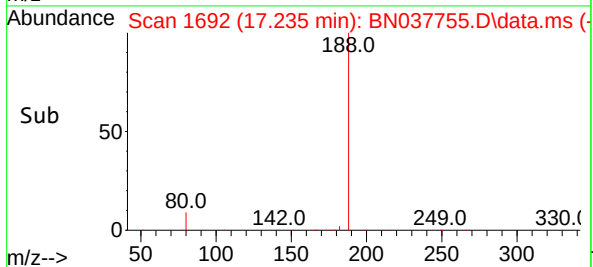
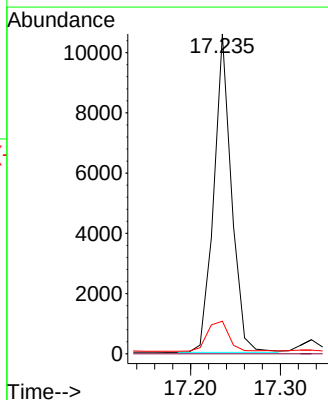
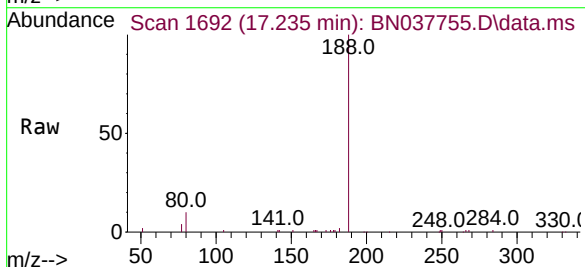
Instrument :
BNA_N
ClientSampleId :
MW17811-20250909

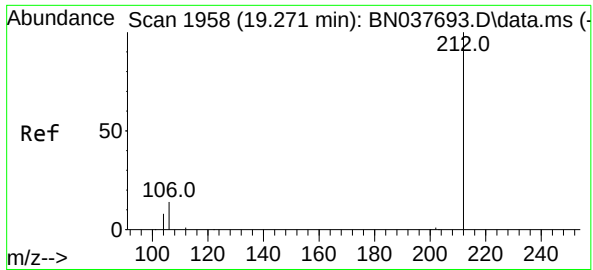
Tgt Ion:172 Resp: 10455
Ion Ratio Lower Upper
172 100
171 36.2 28.6 43.0
170 23.6 19.8 29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

Tgt Ion:188 Resp: 14505
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.2 10.6 15.8#





#27

Fluoranthene-d10

Concen: 0.364 ng

RT: 19.266 min Scan# 1957

Delta R.T. -0.005 min

Lab File: BN037755.D

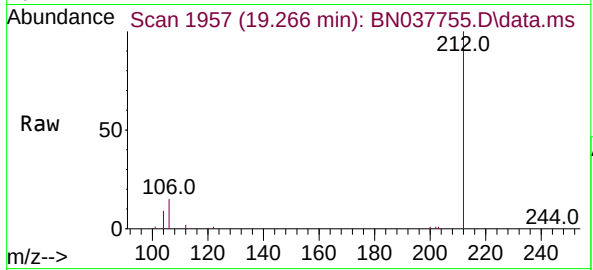
Acq: 17 Sep 2025 20:37

Instrument :

BNA_N

ClientSampleId :

MW17811-20250909



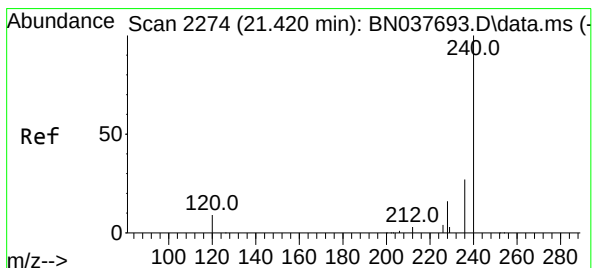
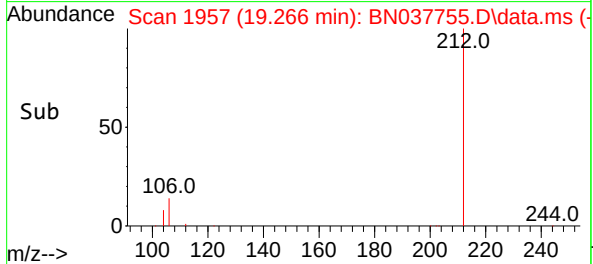
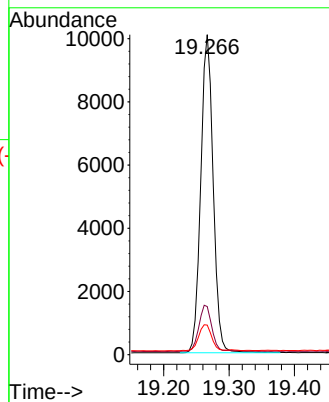
Tgt Ion:212 Resp: 13269

Ion Ratio Lower Upper

212 100

106 15.1 12.2 18.2

104 8.6 6.9 10.3



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.411 min Scan# 2273

Delta R.T. -0.009 min

Lab File: BN037755.D

Acq: 17 Sep 2025 20:37

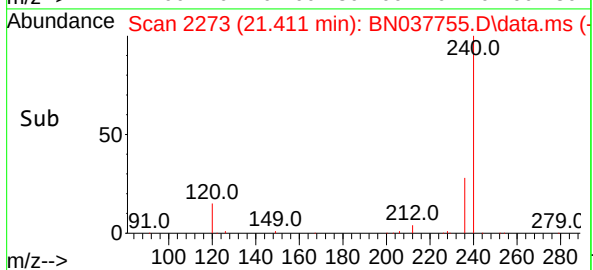
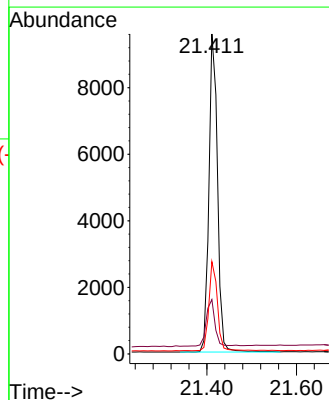
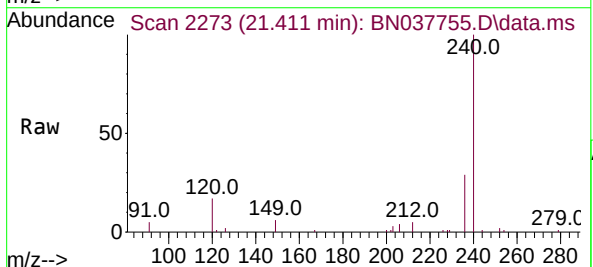
Tgt Ion:240 Resp: 12734

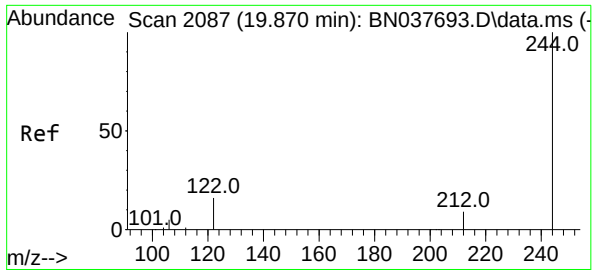
Ion Ratio Lower Upper

240 100

120 17.0 9.2 13.8#

236 28.8 22.6 33.8

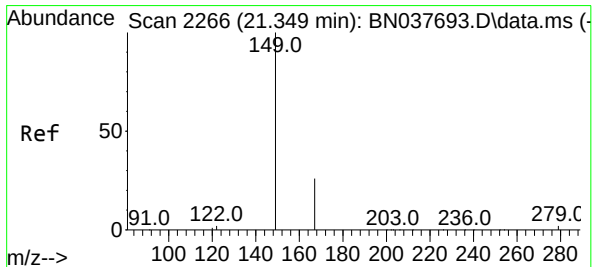
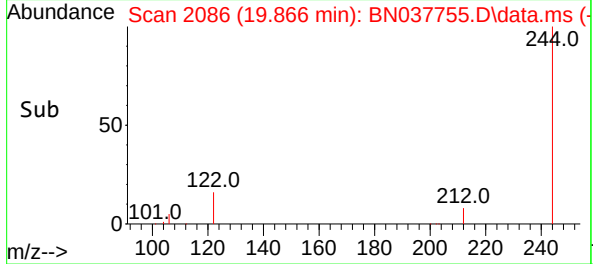
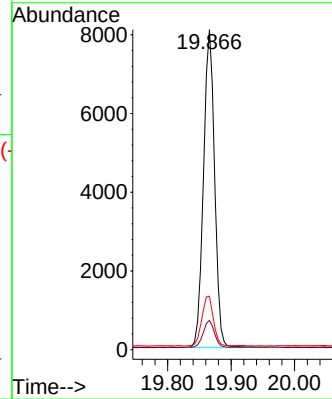
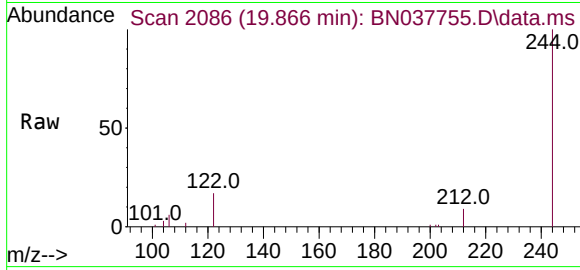




#31
Terphenyl-d14
Concen: 0.380 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

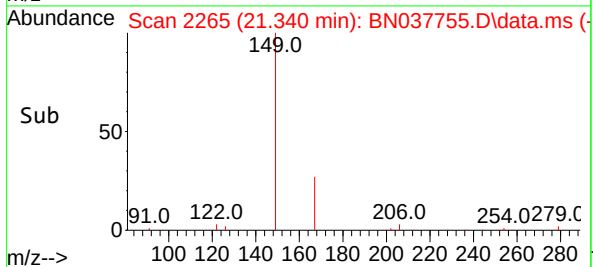
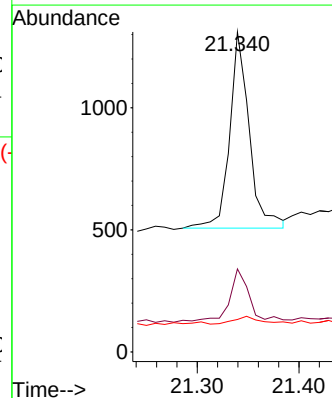
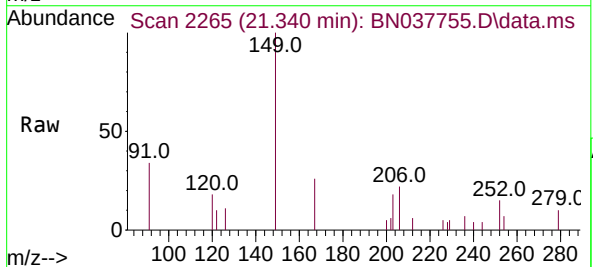
Instrument :
BNA_N
ClientSampleId :
MW17811-20250909

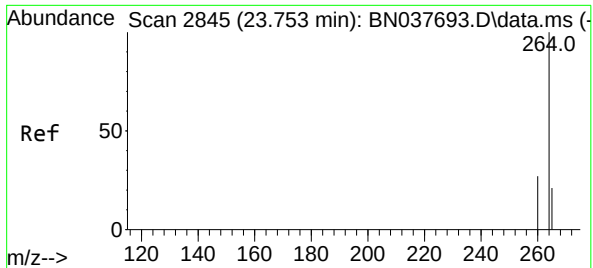
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.1	7.5	11.3
122	16.7	13.2	19.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.082 ng
RT: 21.340 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.2	20.8	31.2
279	4.9	3.3	4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.750 min Scan# 2845

Delta R.T. -0.003 min

Lab File: BN037755.D

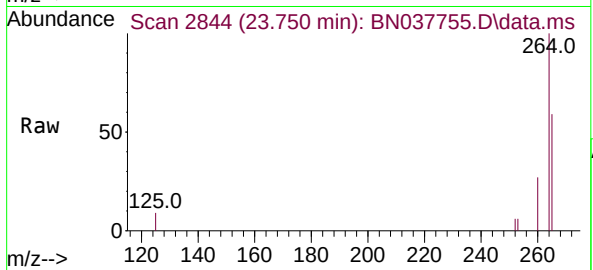
Acq: 17 Sep 2025 20:37

Instrument :

BNA_N

ClientSampleId :

MW17811-20250909



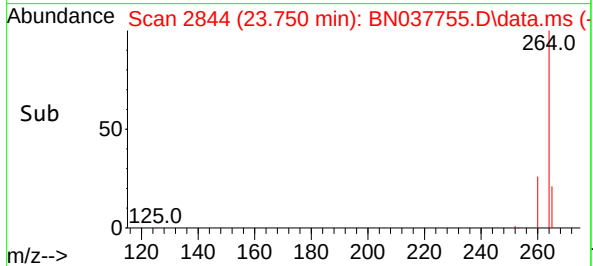
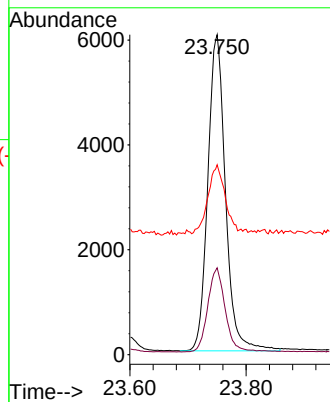
Tgt Ion:264 Resp: 12709

Ion	Ratio	Lower	Upper

264	100		

260	27.1	21.8	32.8

265	59.4	39.4	59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE123D1-20250909	SDG No.:	Q3095
Lab Sample ID:	Q3095-14	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
BN037762.D	1	09/15/25 10:15	09/18/25 04:34	PB169692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.74		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		79%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		58 - 132		93%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6990	7.833				
1146-65-2	Naphthalene-d8	18800	10.637				
15067-26-2	Acenaphthene-d10	8990	14.484				
1517-22-2	Phenanthrene-d10	16600	17.235				
1719-03-5	Chrysene-d12	14000	21.411				
1520-96-3	Perylene-d12	14300	23.744				

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\BN091725\
 Data File : BN037762.D
 Acq On : 18 Sep 2025 04:34
 Operator : RC/JU
 Sample : Q3095-14
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE123D1-20250909

Quant Time: Sep 18 05:29:19 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

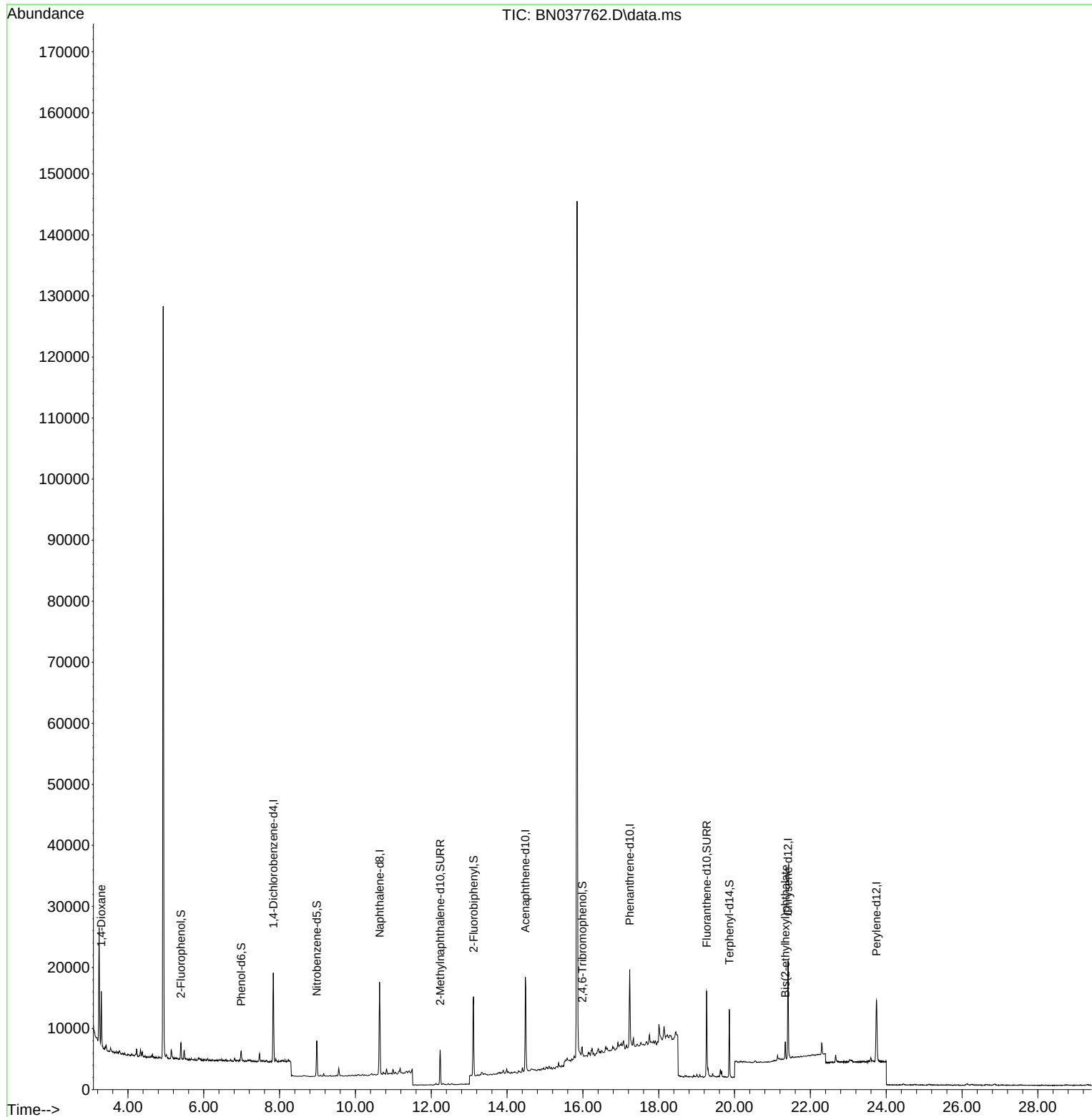
Internal Standards					
1) 1,4-Dichlorobenzene-d4	7.833	152	6993	0.400 ng	0.00
7) Naphthalene-d8	10.637	136	18780	0.400 ng	-0.01
13) Acenaphthene-d10	14.484	164	8989	0.400 ng	-0.01
19) Phenanthrene-d10	17.235	188	16581	0.400 ng	0.00
29) Chrysene-d12	21.411	240	13960	0.400 ng	# 0.00
35) Perylene-d12	23.744	264	14258	0.400 ng	# 0.00
System Monitoring Compounds					
4) 2-Fluorophenol	5.399	112	2224	0.139 ng	0.00
5) Phenol-d6	6.988	99	1599	0.077 ng	0.00
8) Nitrobenzene-d5	8.982	82	4348	0.317 ng	-0.01
11) 2-Methylnaphthalene-d10	12.232	152	7421	0.298 ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	878	0.374 ng	0.00
15) 2-Fluorobiphenyl	13.115	172	11793	0.314 ng	0.00
27) Fluoranthene-d10	19.266	212	15400	0.370 ng	0.00
31) Terphenyl-d14	19.861	244	10486	0.370 ng	0.00
Target Compounds					
2) 1,4-Dioxane	3.297	88	5205	0.715 ng	95
34) Bis(2-ethylhexyl)phtha...	21.339	149	2706	0.187 ng	99

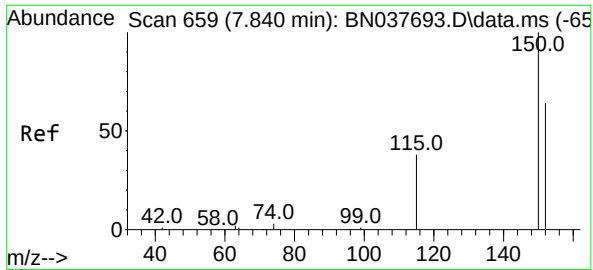
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037762.D
Acq On : 18 Sep 2025 04:34
Operator : RC/JU
Sample : Q3095-14
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE123D1-20250909

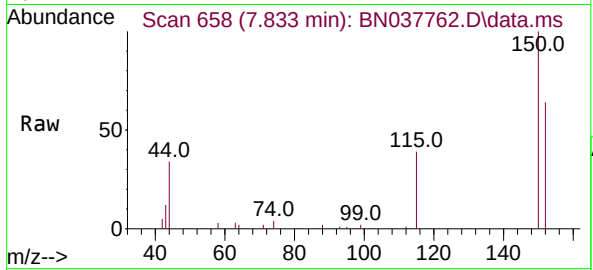
Quant Time: Sep 18 05:29:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



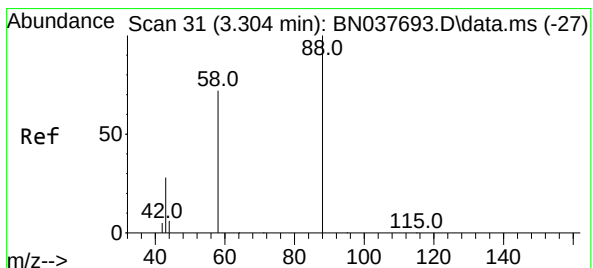
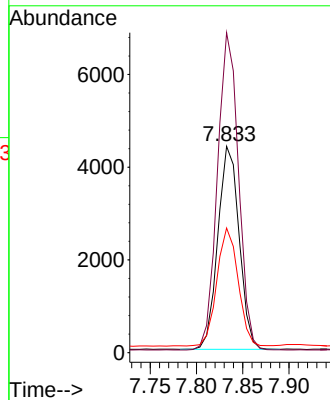
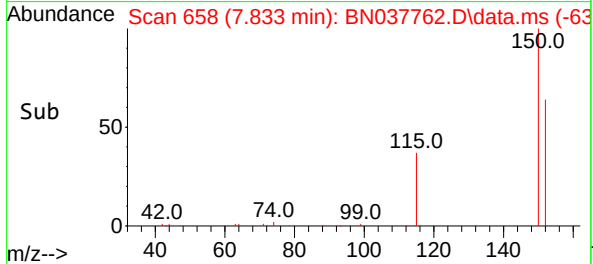


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.833 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN037762.D
 Acq: 18 Sep 2025 04:34

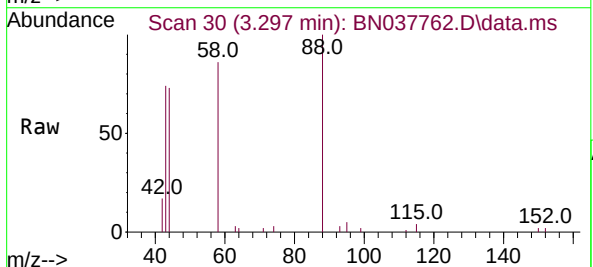
Instrument :
 BNA_N
 ClientSampleId :
 RE123D1-20250909



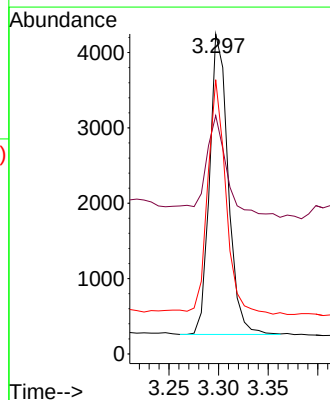
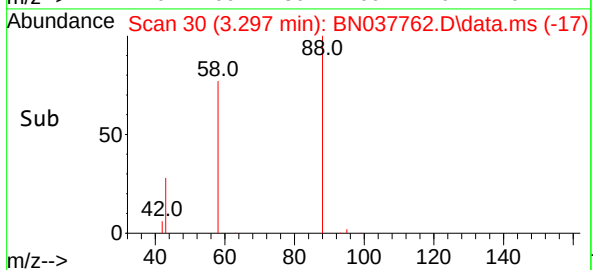
Tgt Ion:152 Resp: 6993
 Ion Ratio Lower Upper
 152 100
 150 155.1 124.5 186.7
 115 60.4 49.2 73.8

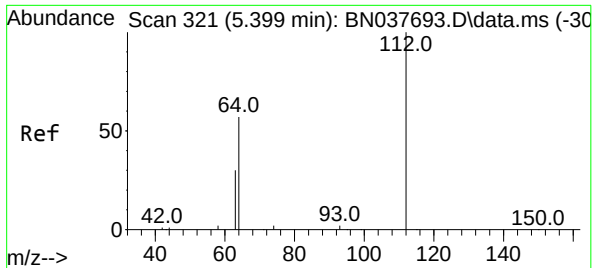


#2
 1,4-Dioxane
 Concen: 0.715 ng
 RT: 3.297 min Scan# 30
 Delta R.T. -0.007 min
 Lab File: BN037762.D
 Acq: 18 Sep 2025 04:34



Tgt Ion: 88 Resp: 5205
 Ion Ratio Lower Upper
 88 100
 43 39.3 26.8 40.2
 58 79.2 61.9 92.9

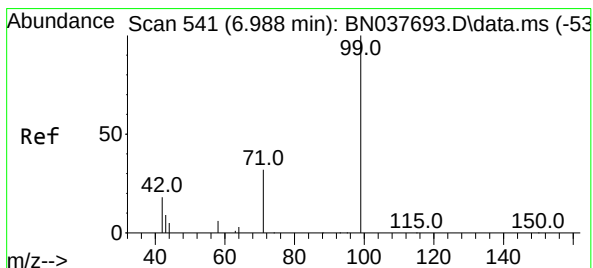
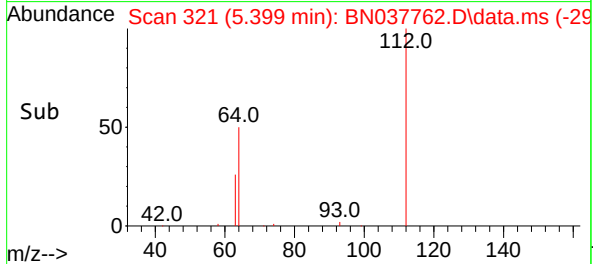
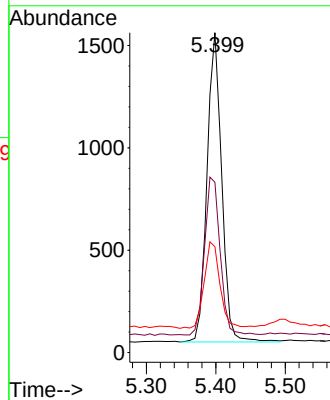
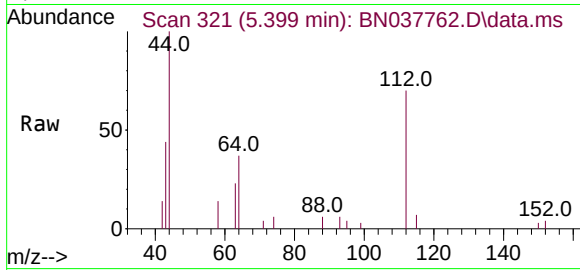




#4
2-Fluorophenol
Concen: 0.139 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

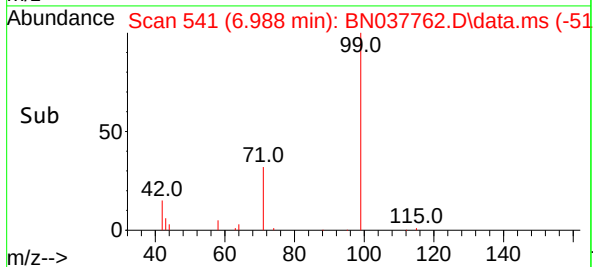
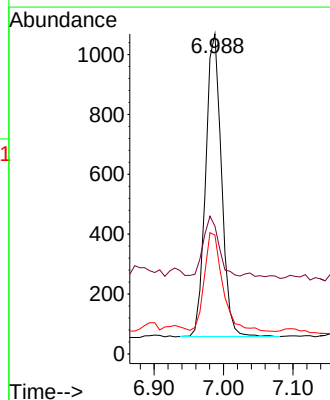
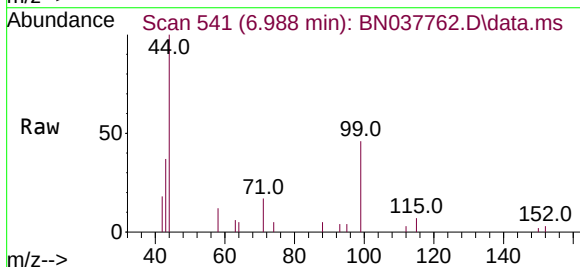
Instrument :
BNA_N
ClientSampleId :
RE123D1-20250909

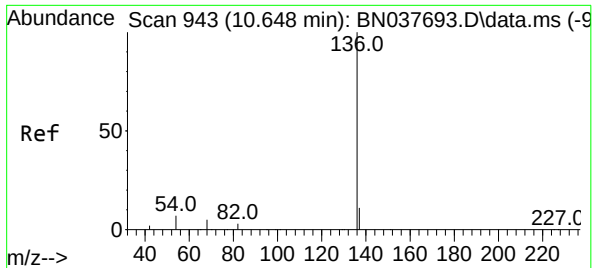
Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.1	44.9	67.3
63	30.1	24.7	37.1



#5
Phenol-d6
Concen: 0.077 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

Tgt Ion	Ratio	Lower	Upper
99	100		
42	18.9	16.6	24.8
71	39.8	26.7	40.1

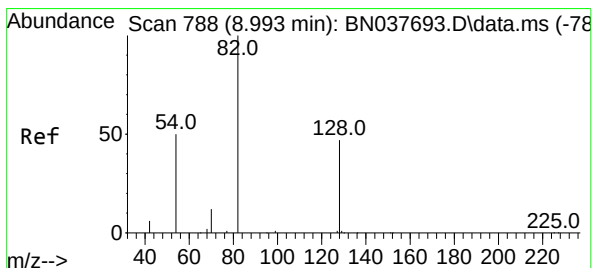
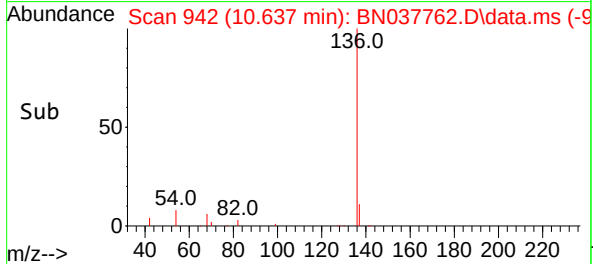
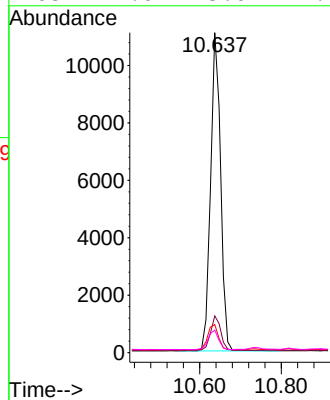
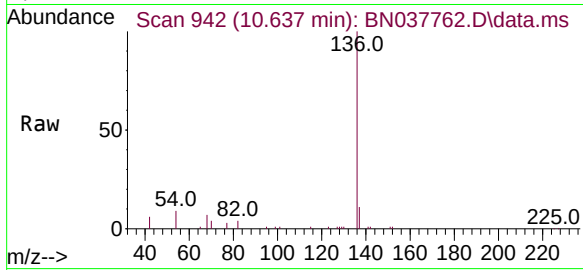




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

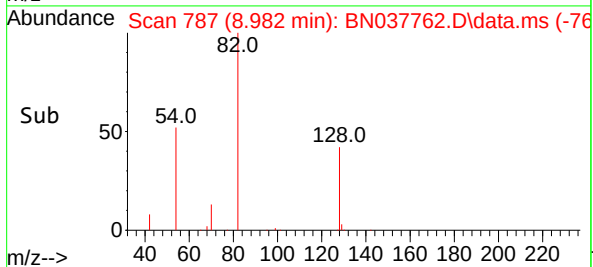
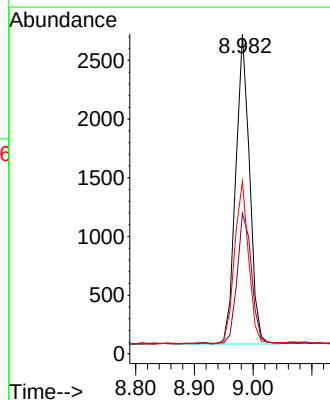
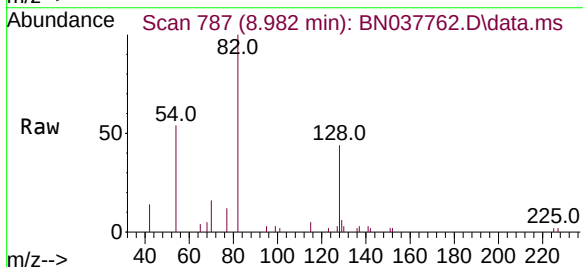
Instrument :
BNA_N
ClientSampleId :
RE123D1-20250909

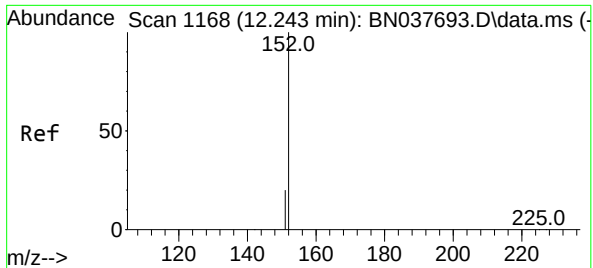
Tgt Ion:	136	Resp:	18780
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	8.8	6.3	9.5
68	7.0	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.317 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

Tgt Ion:	82	Resp:	4348
Ion	Ratio	Lower	Upper
82	100		
128	43.9	38.3	57.5
54	54.0	41.4	62.2

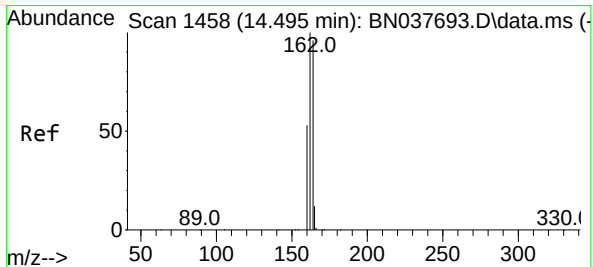
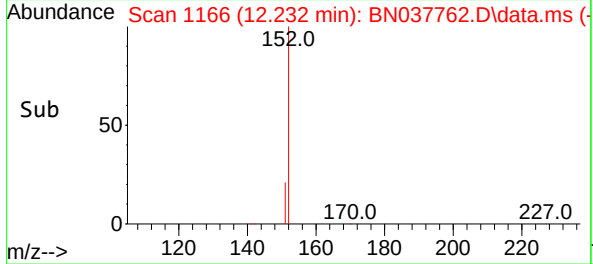
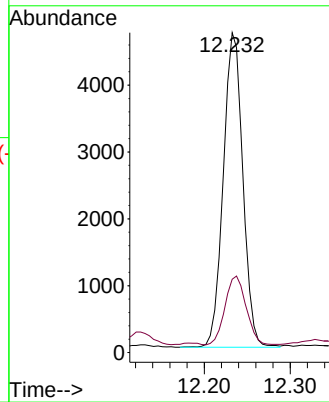
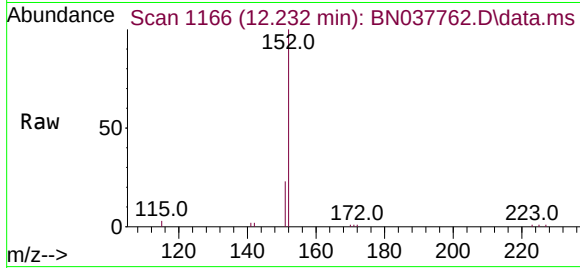




#11
2-Methylnaphthalene-d10
Concen: 0.298 ng
RT: 12.232 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

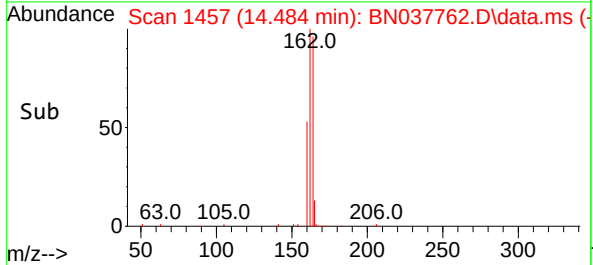
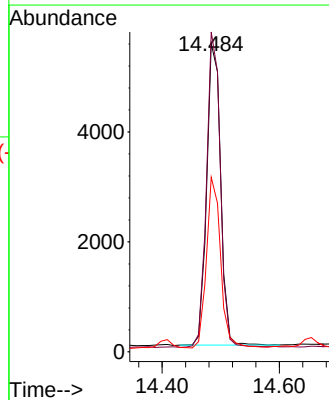
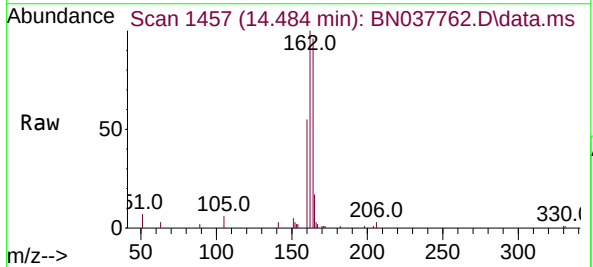
Instrument :
BNA_N
ClientSampleId :
RE123D1-20250909

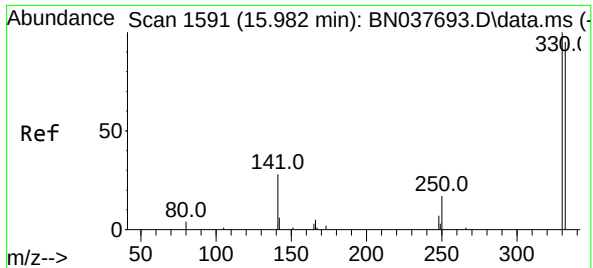
Tgt Ion:152 Resp: 7421
Ion Ratio Lower Upper
152 100
151 23.7 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

Tgt Ion:164 Resp: 8989
Ion Ratio Lower Upper
164 100
162 103.8 83.1 124.7
160 56.6 44.3 66.5

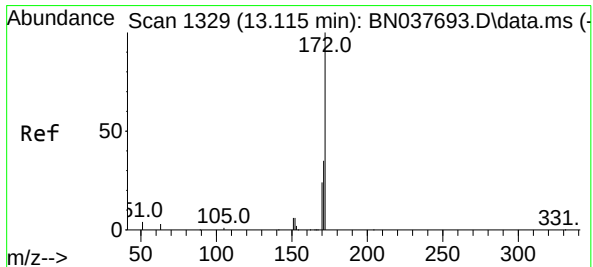
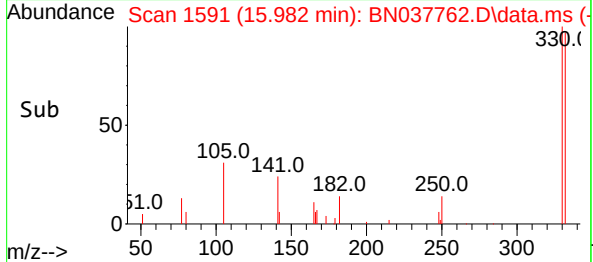
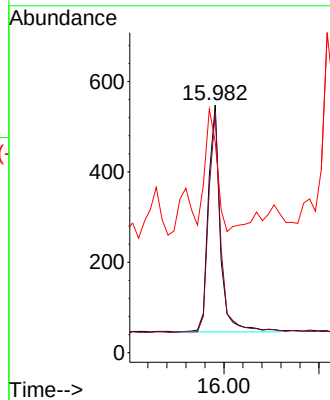
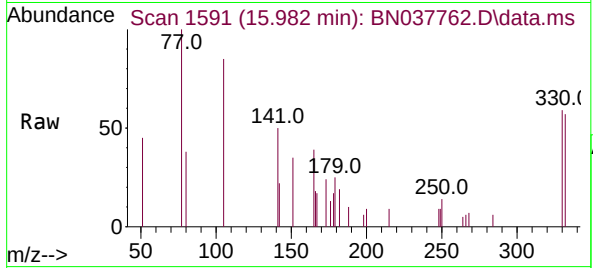




#14
2,4,6-Tribromophenol
Concen: 0.374 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

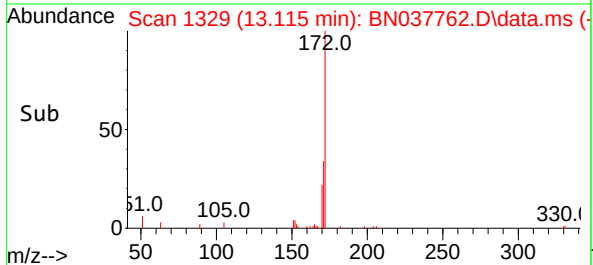
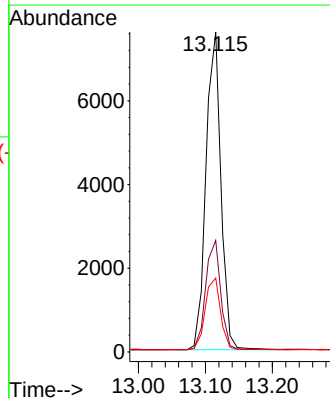
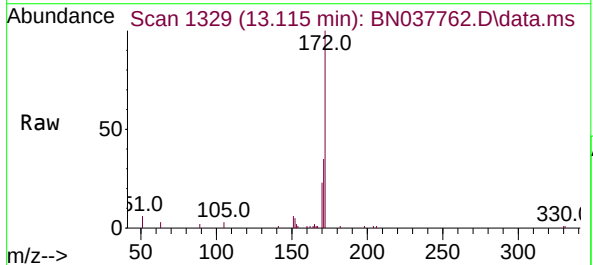
Instrument :
BNA_N
ClientSampleId :
RE123D1-20250909

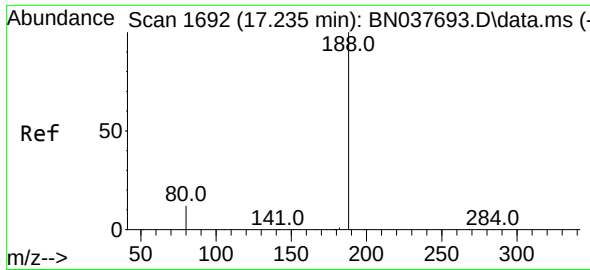
Tgt Ion:330 Resp: 878
Ion Ratio Lower Upper
330 100
332 98.3 75.3 112.9
141 48.7 35.0 52.4



#15
2-Fluorobiphenyl
Concen: 0.314 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

Tgt Ion:172 Resp: 11793
Ion Ratio Lower Upper
172 100
171 34.8 28.6 43.0
170 23.1 19.8 29.8

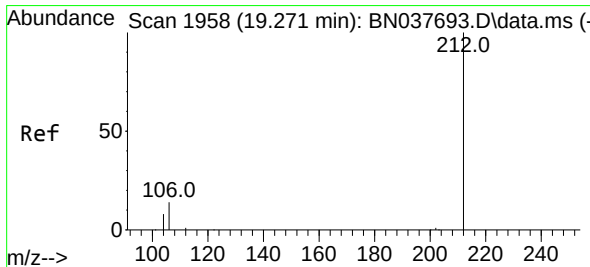
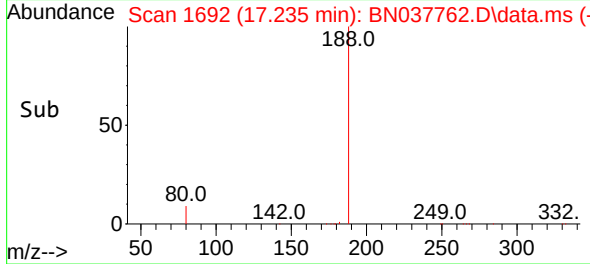
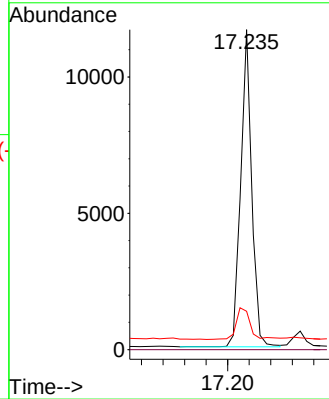
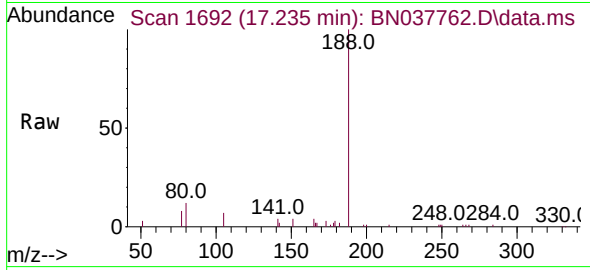




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

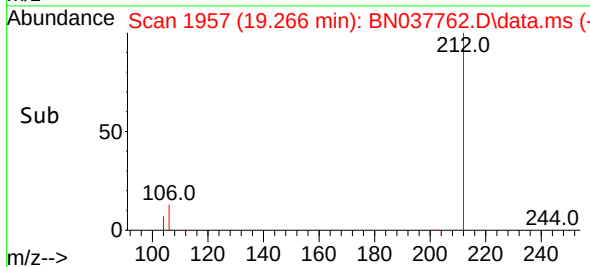
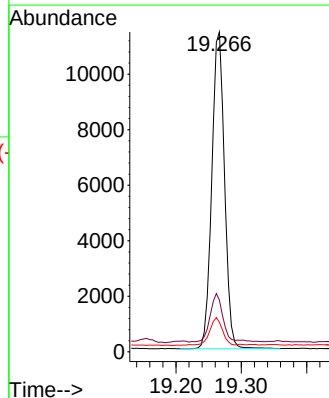
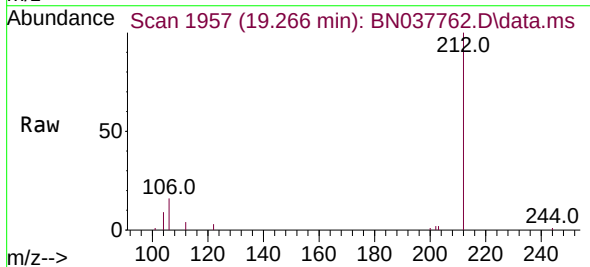
Instrument :
BNA_N
ClientSampleId :
RE123D1-20250909

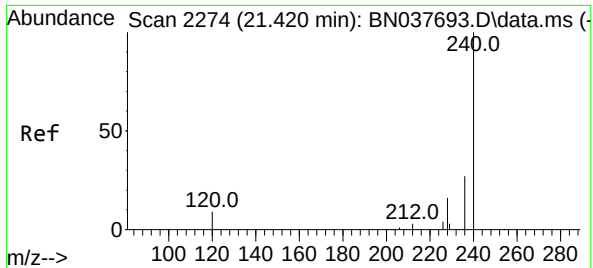
Tgt Ion:188 Resp: 16581
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.0 10.6 15.8



#27
Fluoranthene-d10
Concen: 0.370 ng
RT: 19.266 min Scan# 1957
Delta R.T. -0.005 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

Tgt Ion:212 Resp: 15400
Ion Ratio Lower Upper
212 100
106 15.6 12.2 18.2
104 8.8 6.9 10.3

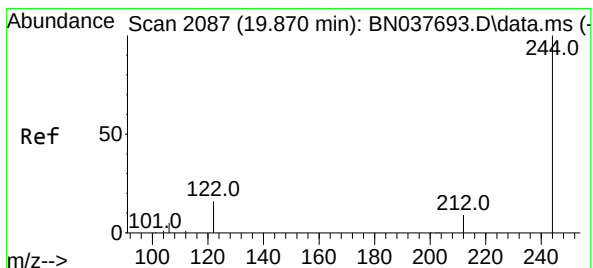
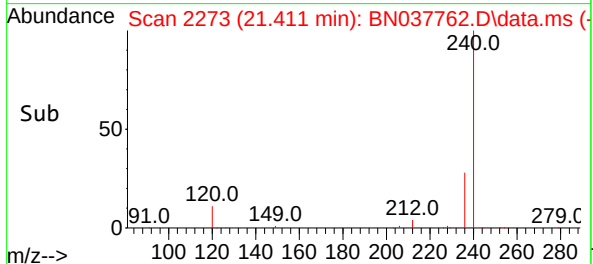
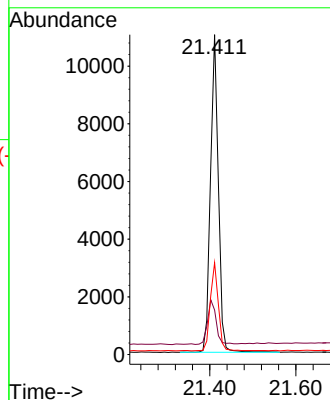
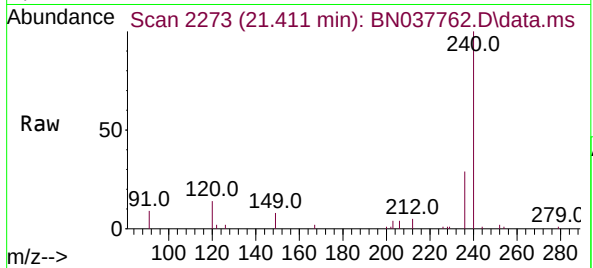




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

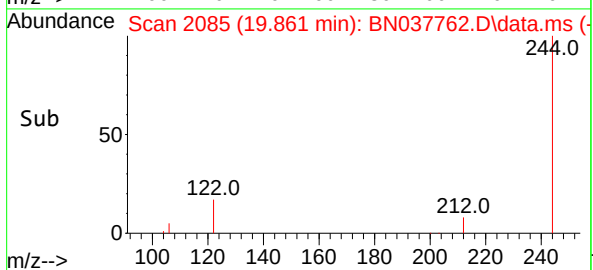
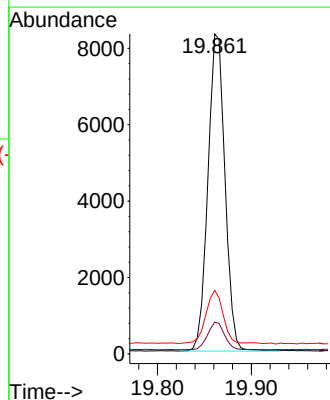
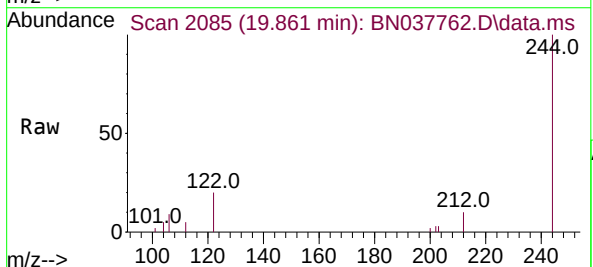
Instrument :
BNA_N
ClientSampleId :
RE123D1-20250909

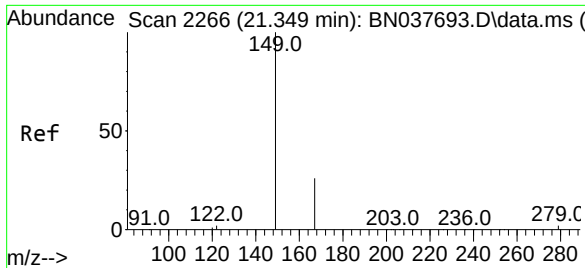
Tgt Ion:240 Resp: 13960
Ion Ratio Lower Upper
240 100
120 13.9 9.2 13.8#
236 28.7 22.6 33.8



#31
Terphenyl-d14
Concen: 0.370 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.010 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

Tgt Ion:244 Resp: 10486
Ion Ratio Lower Upper
244 100
212 9.9 7.5 11.3
122 19.9 13.2 19.8#

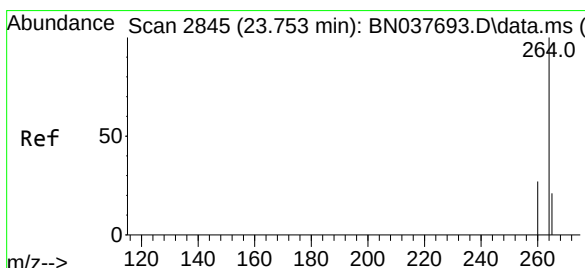
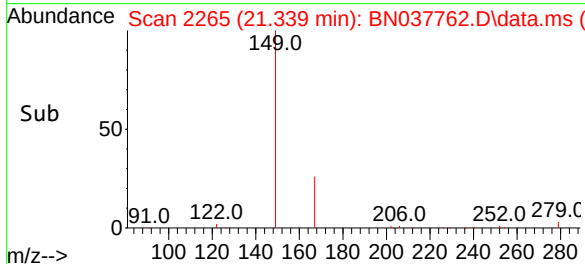
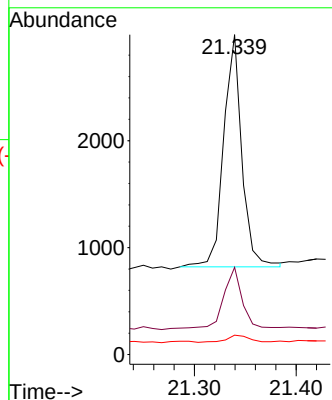
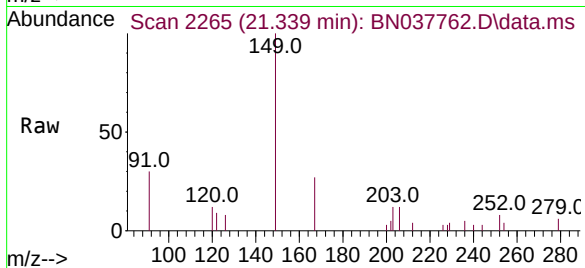




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.187 ng
RT: 21.339 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

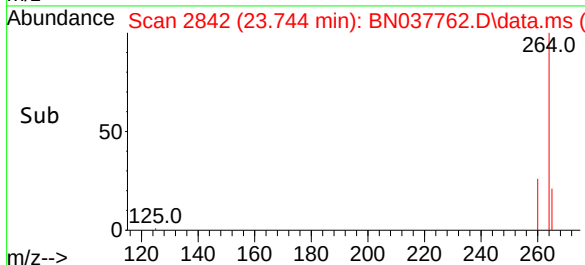
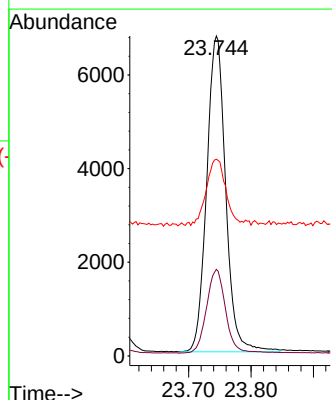
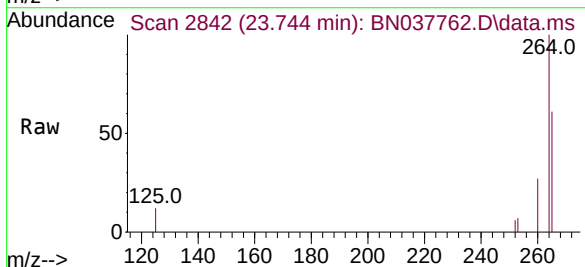
Instrument :
BNA_N
ClientSampleId :
RE123D1-20250909

Tgt Ion:149 Resp: 2706
Ion Ratio Lower Upper
149 100
167 25.7 20.8 31.2
279 3.7 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

Tgt Ion:264 Resp: 14258
Ion Ratio Lower Upper
264 100
260 27.0 21.8 32.8
265 61.5 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE123D3-20250909	SDG No.:	Q3095
Lab Sample ID:	Q3095-15	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
BN037763.D	1	09/15/25 10:15	09/18/25 05:10	PB169692

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	0.22		30 - 150		54%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.25		30 - 150		63%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.23		55 - 111		58%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.23		53 - 106		58%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.28		58 - 132		70%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7990	7.833				
1146-65-2	Naphthalene-d8	22100	10.637				
15067-26-2	Acenaphthene-d10	10300	14.484				
1517-22-2	Phenanthrene-d10	18300	17.235				
1719-03-5	Chrysene-d12	14400	21.411				
1520-96-3	Perylene-d12	14900	23.744				

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\BN091725\
 Data File : BN037763.D
 Acq On : 18 Sep 2025 05:10
 Operator : RC/JU
 Sample : Q3095-15
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE123D3-20250909

Quant Time: Sep 18 05:35:27 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

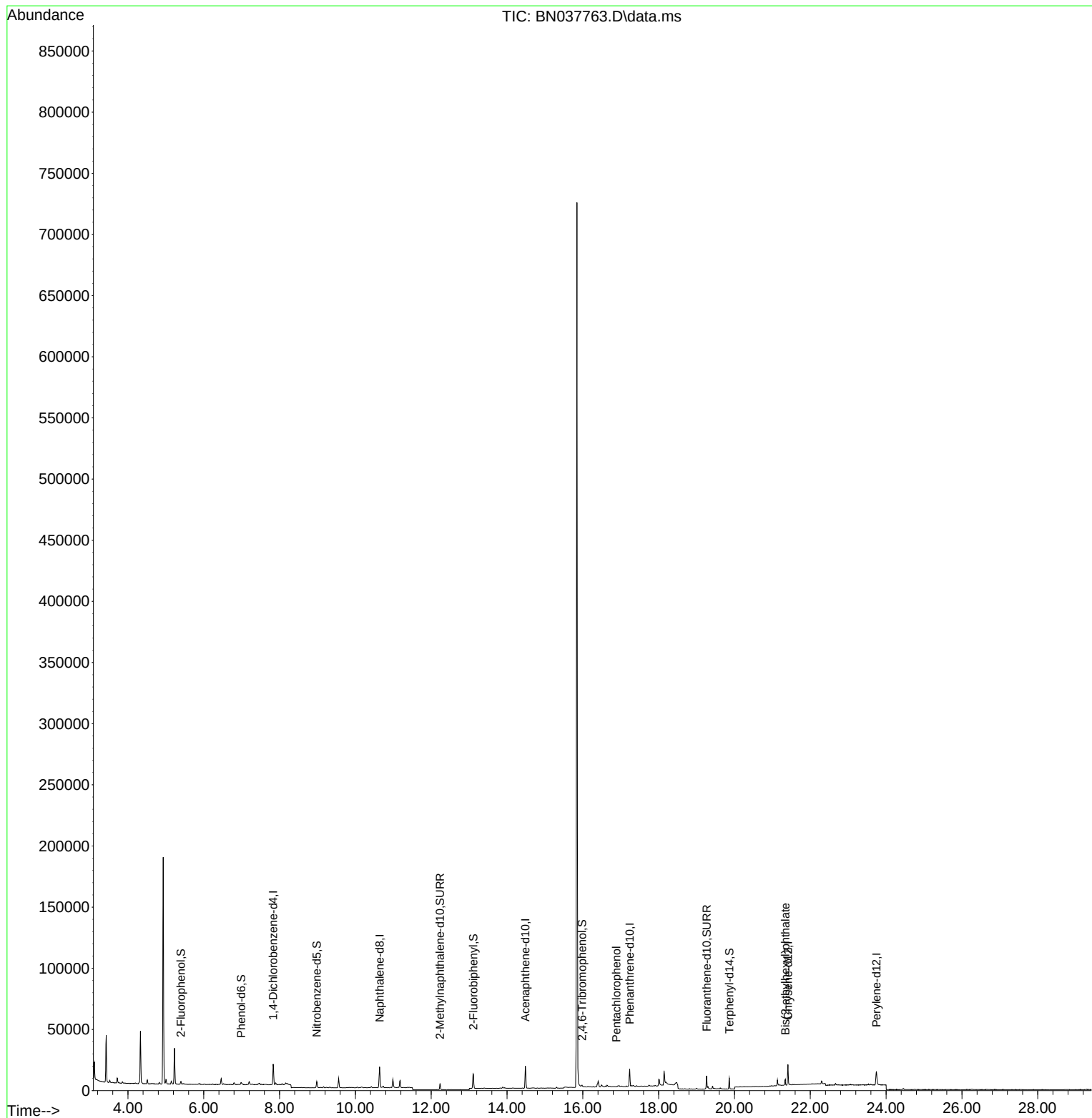
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7985	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	22130	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	10297	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	18311	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	14395	0.400	ng	0.00
35) Perylene-d12	23.744	264	14910	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	1925	0.105	ng	0.00
5) Phenol-d6	6.988	99	1623	0.068	ng	0.00
8) Nitrobenzene-d5	8.982	82	3752	0.232	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	6365	0.217	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	707	0.263	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	9995	0.232	ng	0.00
27) Fluoranthene-d10	19.266	212	11583	0.252	ng	0.00
31) Terphenyl-d14	19.861	244	8243	0.282	ng	0.00
Target Compounds						
24) Pentachlorophenol	16.888	266	157	0.039	ng	# 86
34) Bis(2-ethylhexyl)phtha...	21.340	149	4799	0.322	ng	99

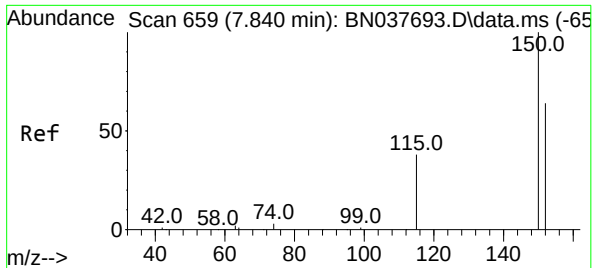
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037763.D
Acq On : 18 Sep 2025 05:10
Operator : RC/JU
Sample : Q3095-15
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE123D3-20250909

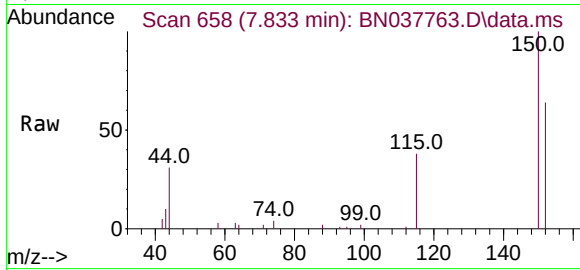
Quant Time: Sep 18 05:35:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration





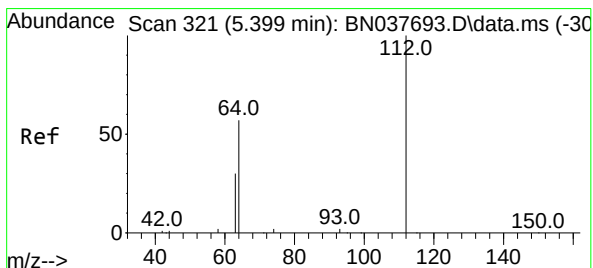
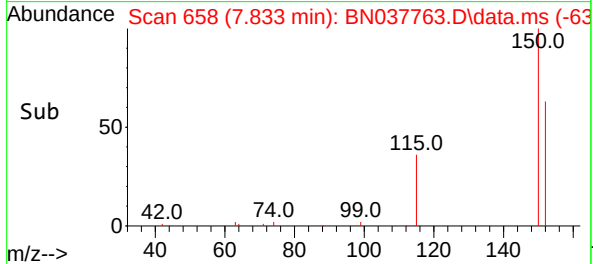
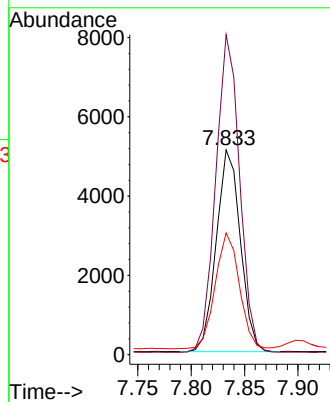
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

Instrument :
BNA_N
ClientSampleId :
RE123D3-20250909



Tgt Ion:152 Resp: 7985

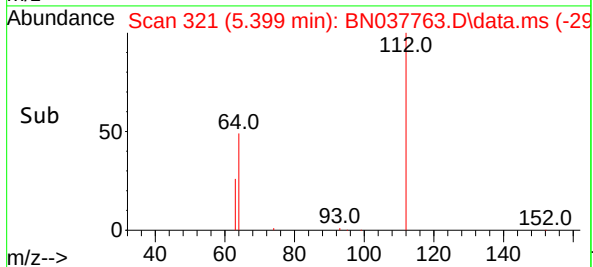
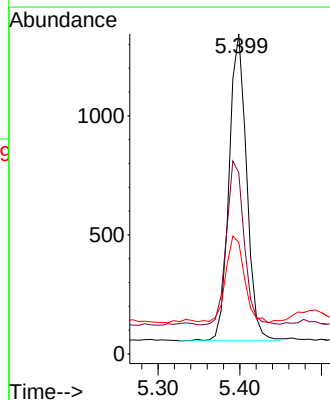
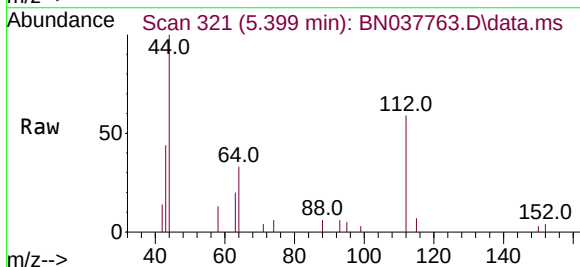
Ion	Ratio	Lower	Upper
152	100		
150	156.3	124.5	186.7
115	59.4	49.2	73.8

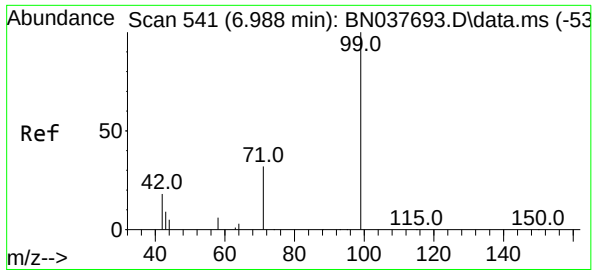


#4
2-Fluorophenol
Concen: 0.105 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

Tgt Ion:112 Resp: 1925

Ion	Ratio	Lower	Upper
112	100		
64	53.8	44.9	67.3
63	30.4	24.7	37.1

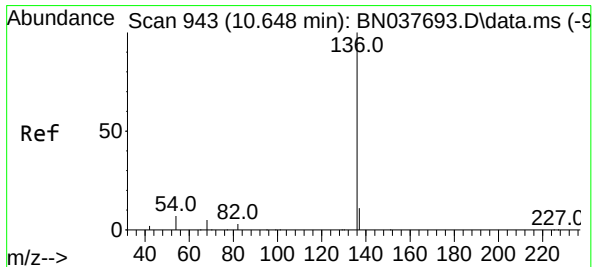
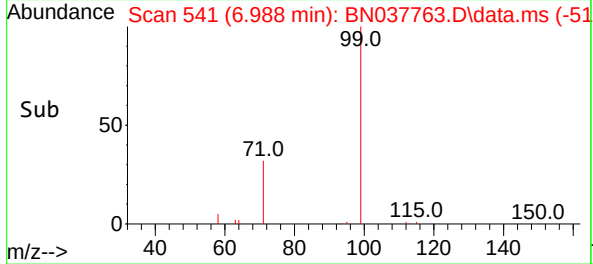
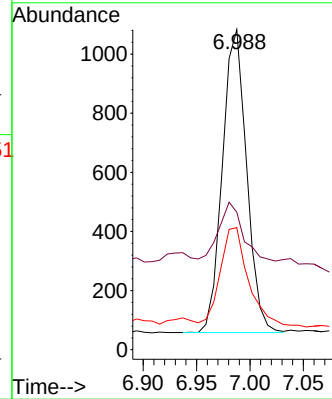
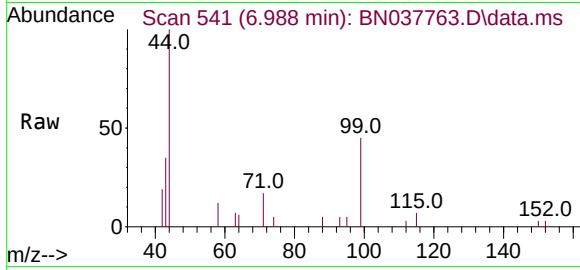




#5
Phenol-d6
Concen: 0.068 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

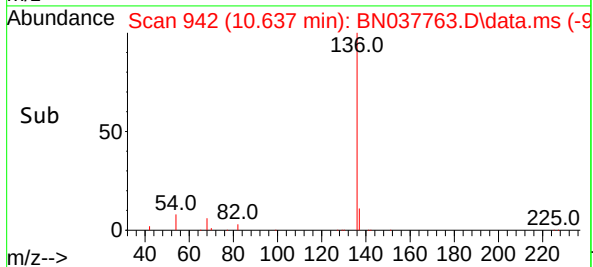
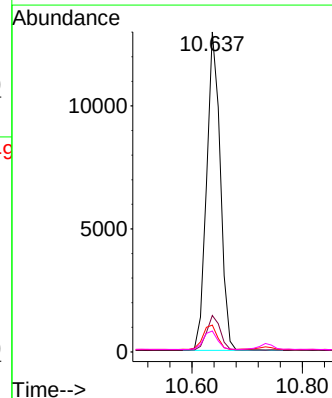
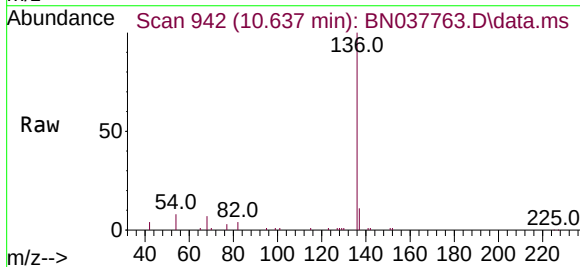
Instrument :
BNA_N
ClientSampleId :
RE123D3-20250909

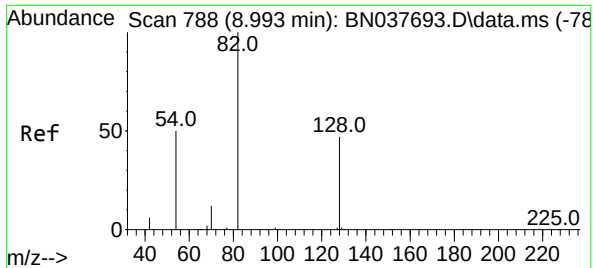
Tgt Ion: 99 Resp: 1623
Ion Ratio Lower Upper
99 100
42 33.7 16.6 24.8#
71 38.8 26.7 40.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

Tgt Ion: 136 Resp: 22130
Ion Ratio Lower Upper
136 100
137 11.4 9.1 13.7
54 8.4 6.3 9.5
68 6.5 5.0 7.4

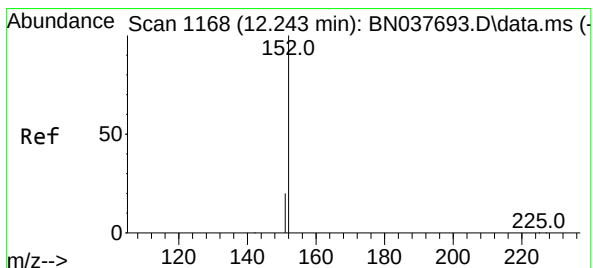
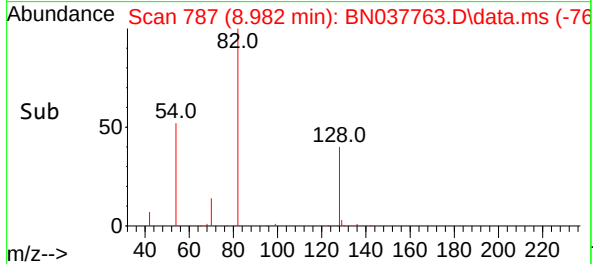
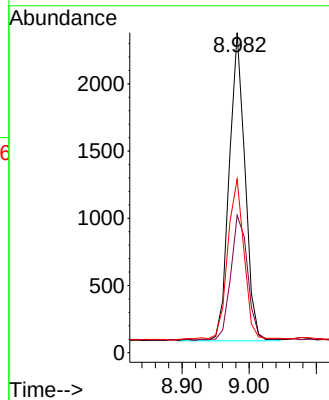
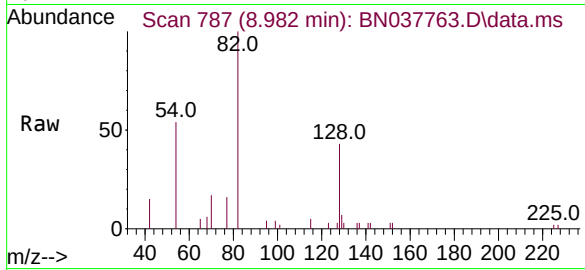




#8
Nitrobenzene-d5
Concen: 0.232 ng
RT: 8.982 min Scan# 788
Delta R.T. -0.011 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

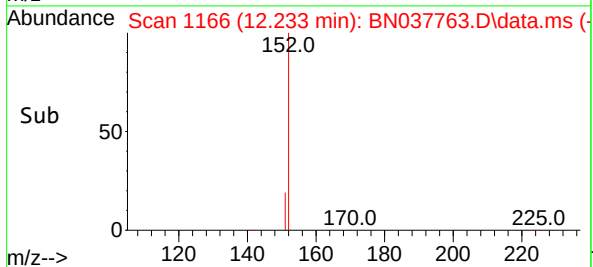
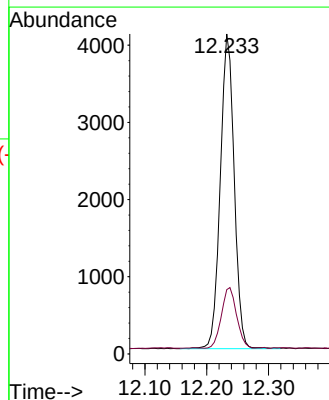
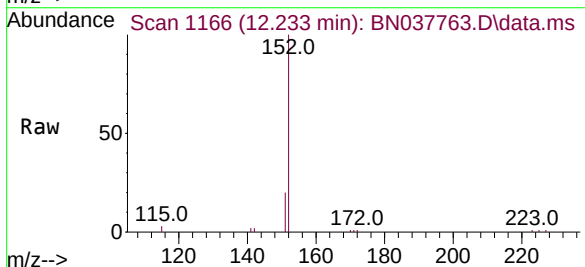
Instrument :
BNA_N
ClientSampleId :
RE123D3-20250909

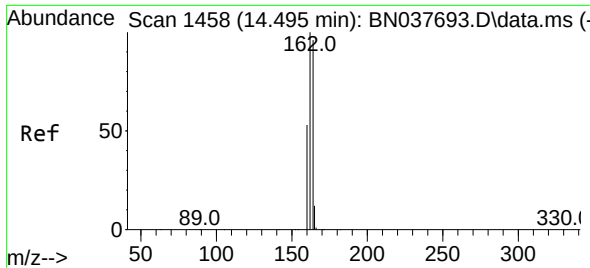
Tgt Ion:	82	Resp:	3752
Ion Ratio	Lower	Upper	
82	100		
128	42.9	38.3	57.5
54	54.2	41.4	62.2



#11
2-Methylnaphthalene-d10
Concen: 0.217 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

Tgt Ion:	152	Resp:	6365
Ion Ratio	Lower	Upper	
152	100		
151	20.9	17.0	25.6

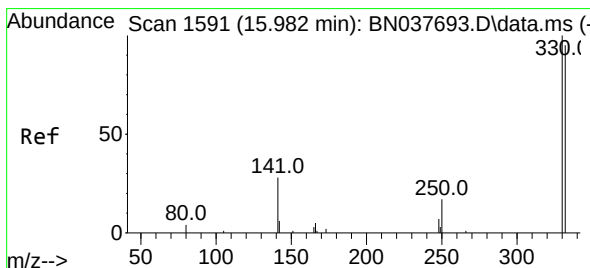
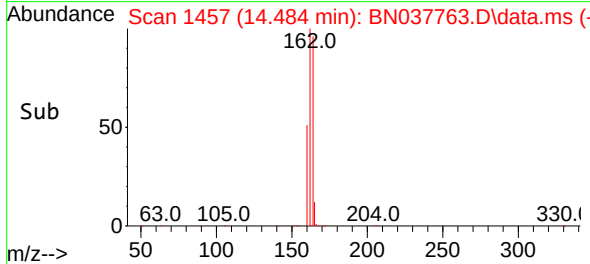
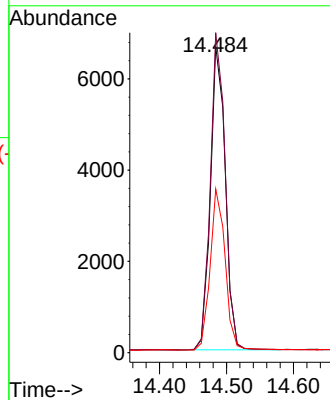
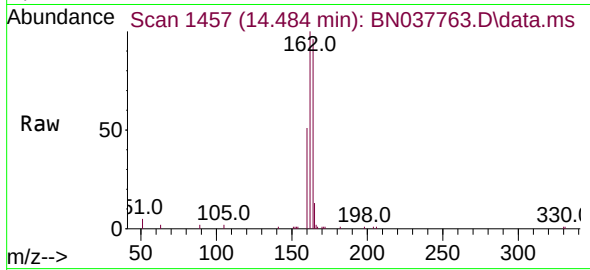




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

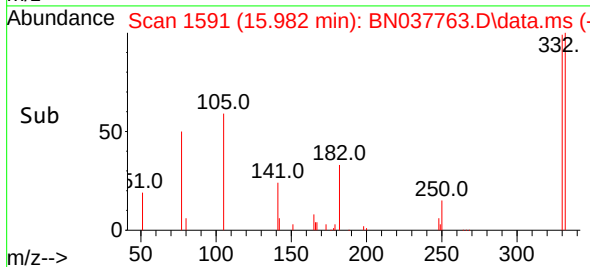
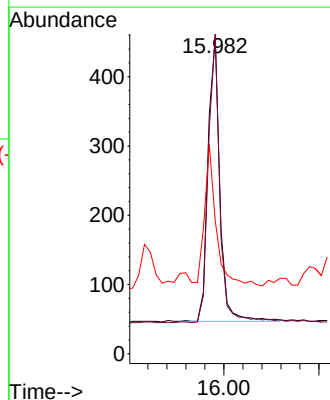
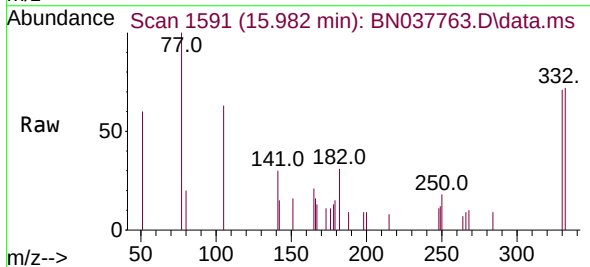
Instrument :
BNA_N
ClientSampleId :
RE123D3-20250909

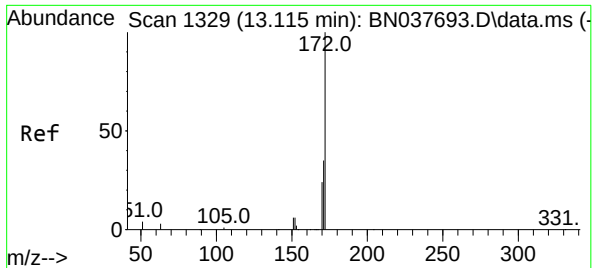
Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.5	83.1	124.7
160	53.4	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.263 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

Tgt Ion	Ratio	Lower	Upper
330	100		
332	98.4	75.3	112.9
141	50.2	35.0	52.4

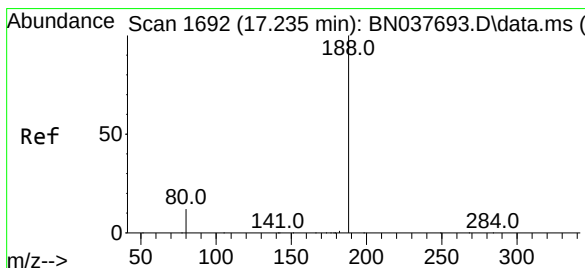
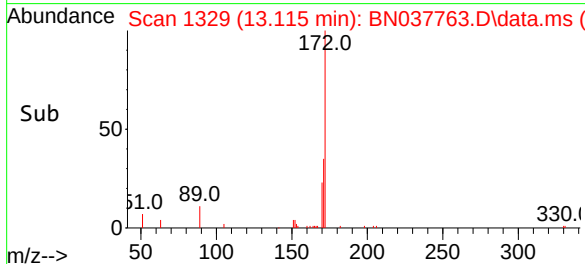
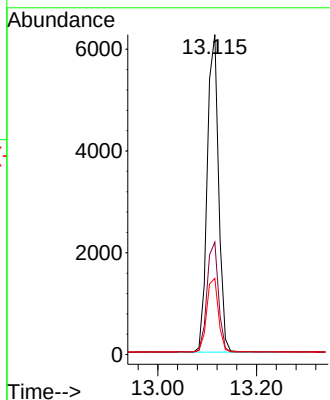
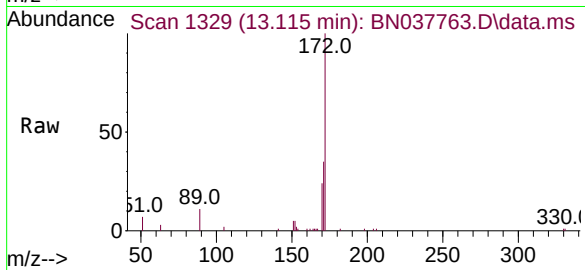




#15
2-Fluorobiphenyl
Concen: 0.232 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

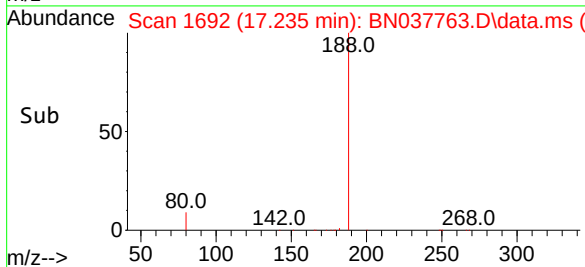
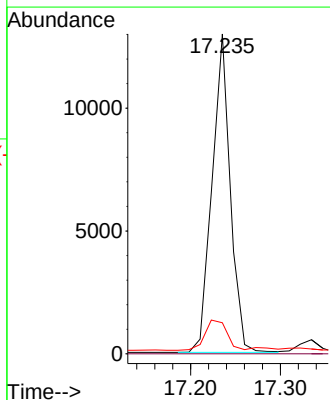
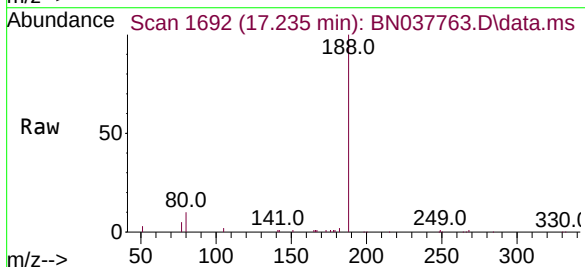
Instrument :
BNA_N
ClientSampleId :
RE123D3-20250909

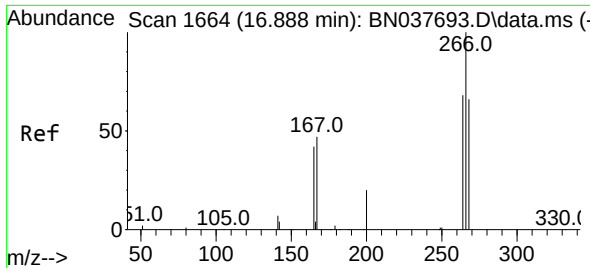
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.6	43.0
170	23.8	19.8	29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.7	10.6	15.8

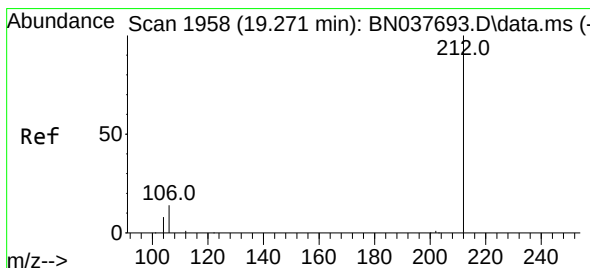
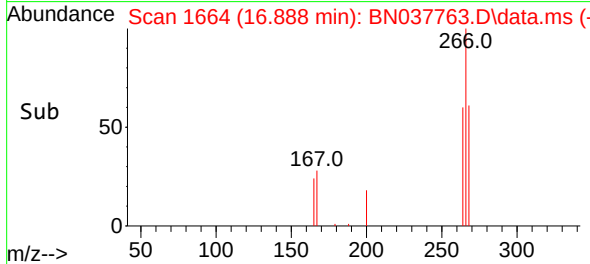
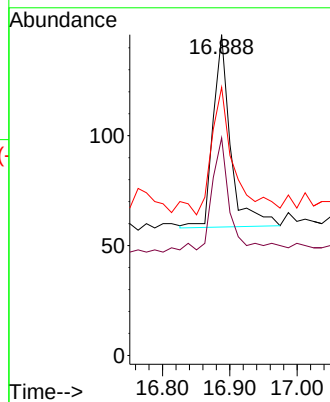
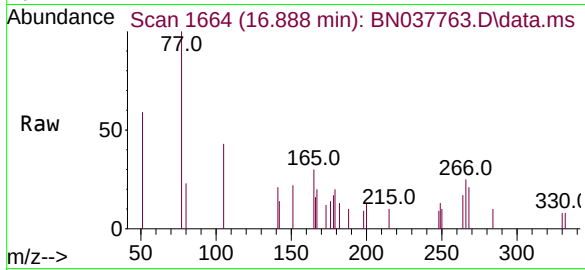




#24
Pentachlorophenol
Concen: 0.039 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

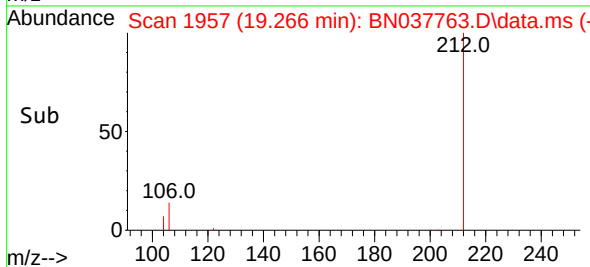
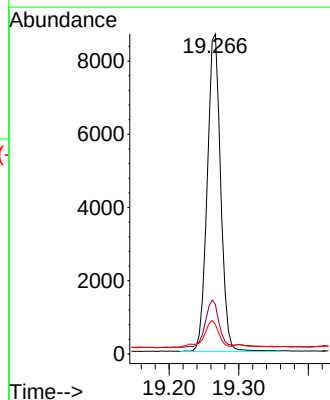
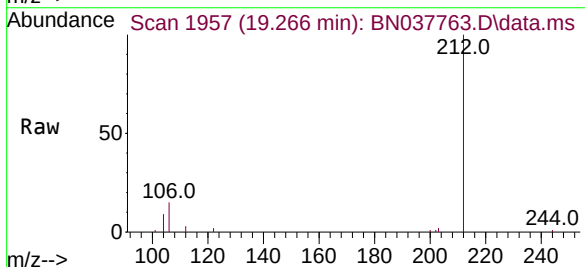
Instrument :
BNA_N
ClientSampleId :
RE123D3-20250909

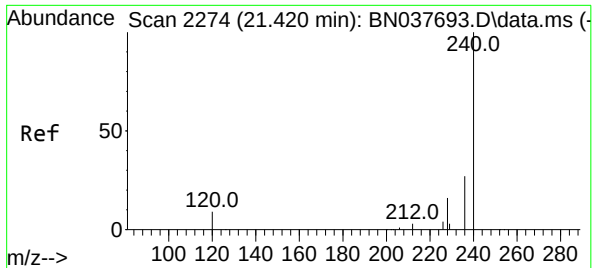
Tgt Ion: 266 Resp: 157
Ion Ratio Lower Upper
266 100
264 67.5 51.6 77.4
268 85.4 53.2 79.8#



#27
Fluoranthene-d10
Concen: 0.252 ng
RT: 19.266 min Scan# 1957
Delta R.T. -0.005 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

Tgt Ion: 212 Resp: 11583
Ion Ratio Lower Upper
212 100
106 15.2 12.2 18.2
104 9.8 6.9 10.3

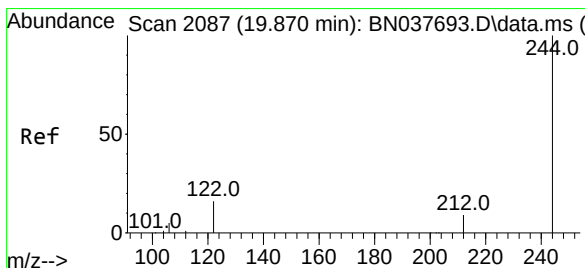
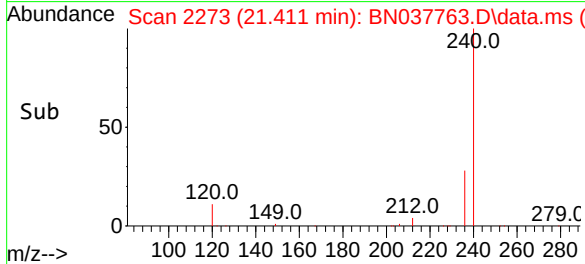
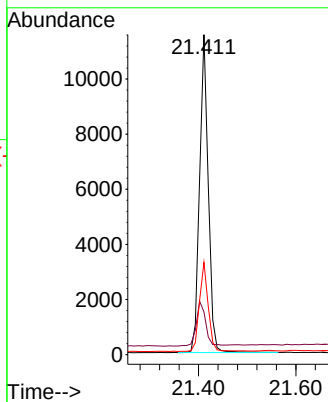
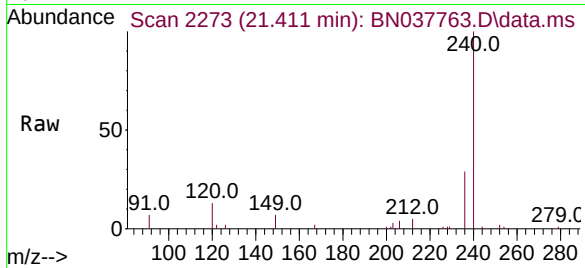




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

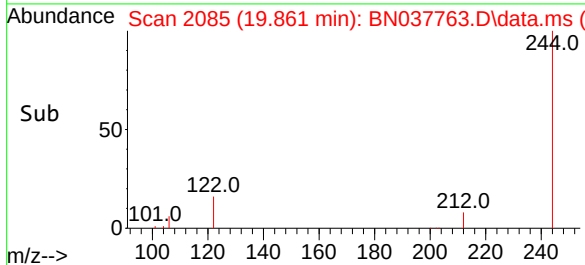
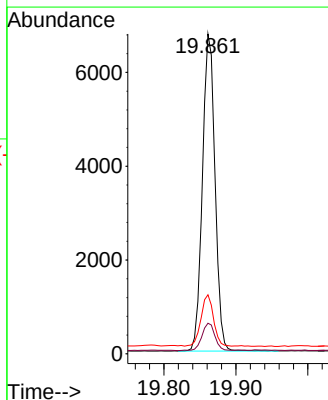
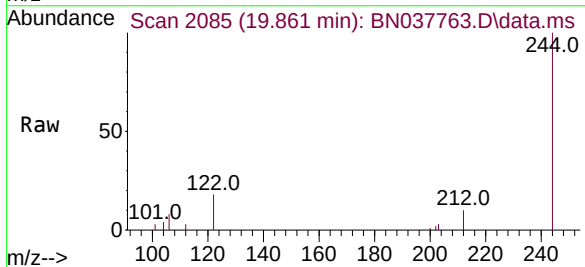
Instrument :
BNA_N
ClientSampleId :
RE123D3-20250909

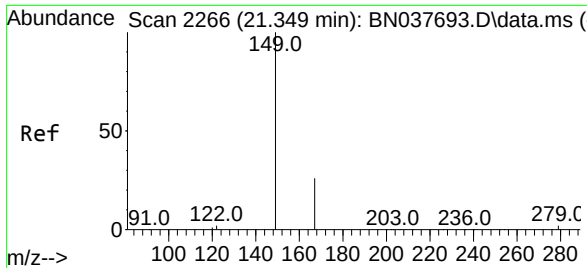
Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.4	9.2	13.8
236	28.8	22.6	33.8



#31
Terphenyl-d14
Concen: 0.282 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.5	11.3
122	18.5	13.2	19.8

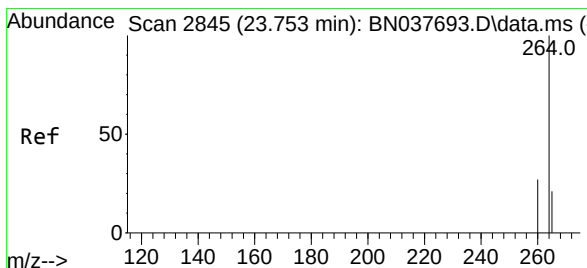
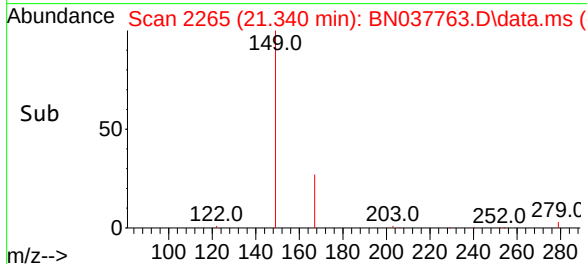
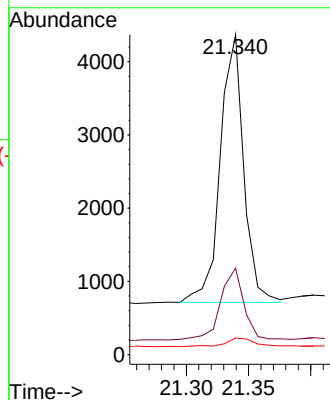
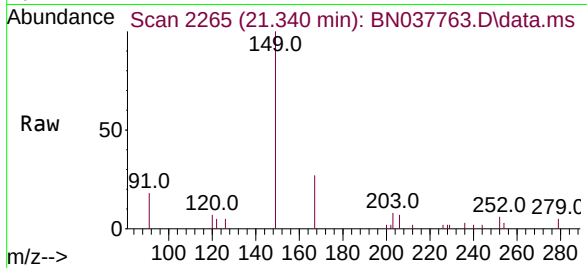




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.322 ng
RT: 21.340 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

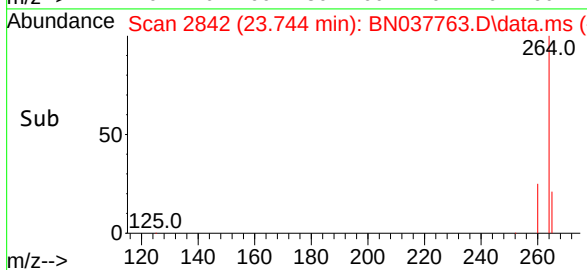
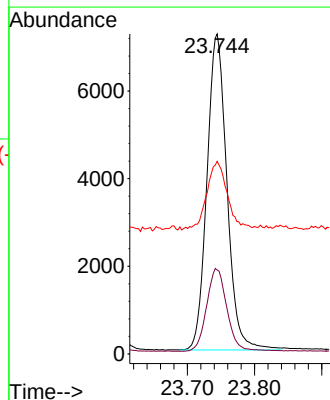
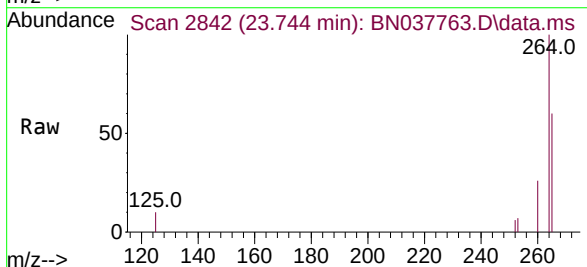
Instrument :
BNA_N
ClientSampleId :
RE123D3-20250909

Tgt Ion:149 Resp: 4799
Ion Ratio Lower Upper
149 100
167 26.8 20.8 31.2
279 4.3 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

Tgt Ion:264 Resp: 14910
Ion Ratio Lower Upper
264 100
260 26.2 21.8 32.8
265 60.2 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	MW305D-20250909	SDG No.:	Q3095
Lab Sample ID:	Q3095-16	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
BN037764.D	1	09/15/25 10:15	09/18/25 05:46	PB169692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.53		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		96%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		97%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7660	7.833				
1146-65-2	Naphthalene-d8	21200	10.637				
15067-26-2	Acenaphthene-d10	9850	14.484				
1517-22-2	Phenanthrene-d10	18500	17.235				
1719-03-5	Chrysene-d12	16400	21.411				
1520-96-3	Perylene-d12	17100	23.744				

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\BN091725\
 Data File : BN037764.D
 Acq On : 18 Sep 2025 05:46
 Operator : RC/JU
 Sample : Q3095-16
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW305D-20250909

Quant Time: Sep 18 07:54:43 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

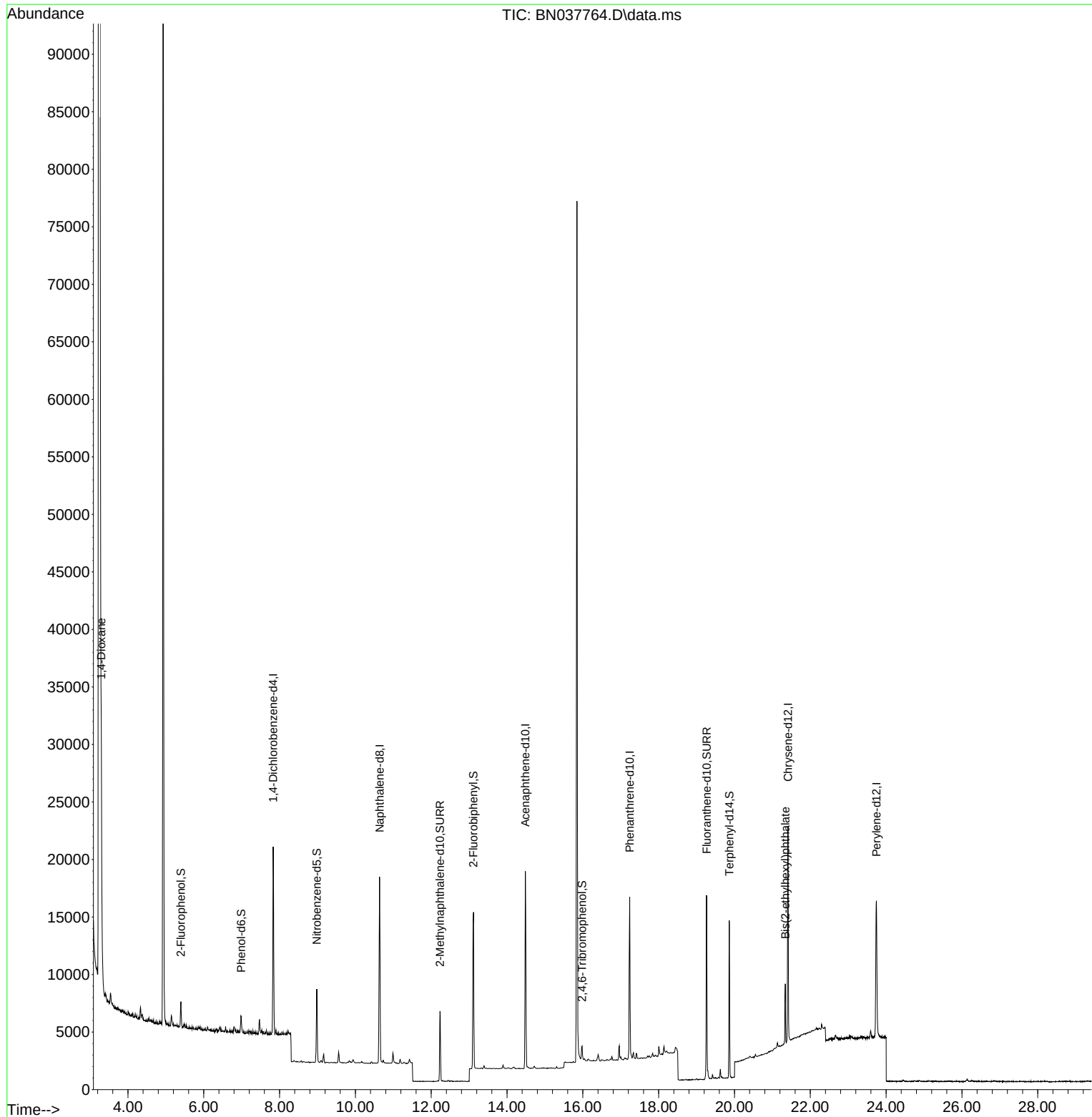
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7657	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	21168	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	9850	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	18466	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	16400	0.400	ng	0.00
35) Perylene-d12	23.744	264	17053	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	1748	0.099	ng	0.00
5) Phenol-d6	6.988	99	1348	0.059	ng	0.00
8) Nitrobenzene-d5	8.982	82	4861	0.314	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	8118	0.289	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	816	0.318	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	12714	0.309	ng	0.00
27) Fluoranthene-d10	19.266	212	17805	0.384	ng	0.00
31) Terphenyl-d14	19.861	244	12957	0.389	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	4227	0.530	ng	# 93
34) Bis(2-ethylhexyl)phtha...	21.340	149	4749	0.280	ng	# 99

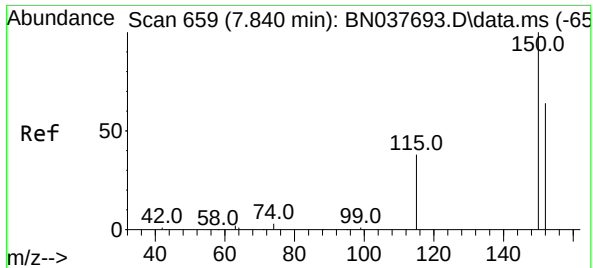
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037764.D
Acq On : 18 Sep 2025 05:46
Operator : RC/JU
Sample : Q3095-16
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW305D-20250909

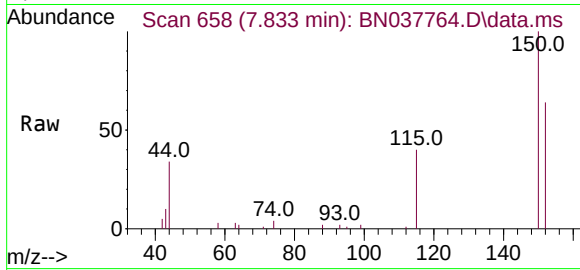
Quant Time: Sep 18 07:54:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



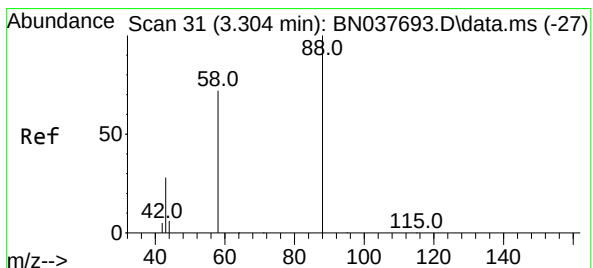
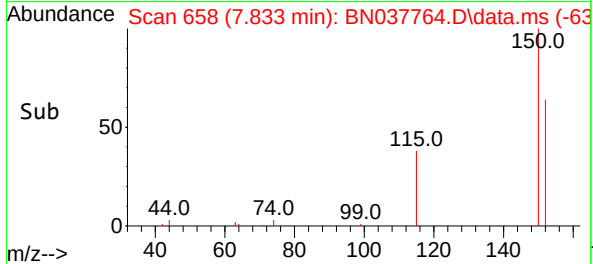
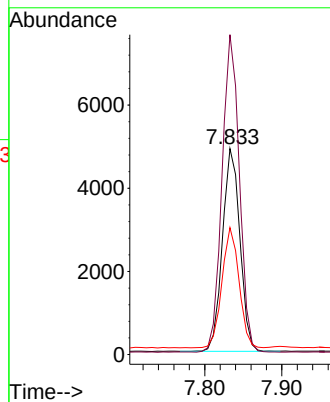


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

Instrument :
BNA_N
ClientSampleId :
MW305D-20250909

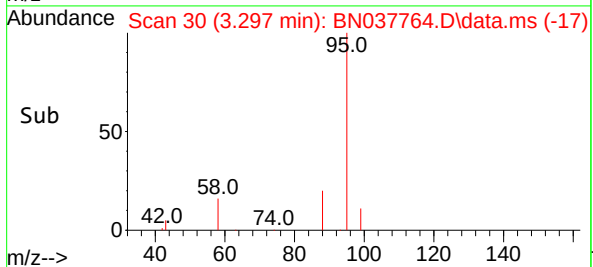
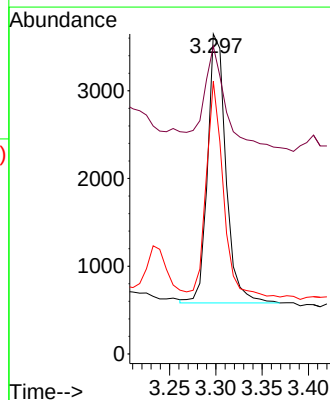
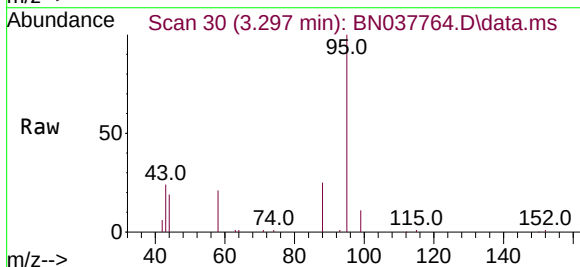


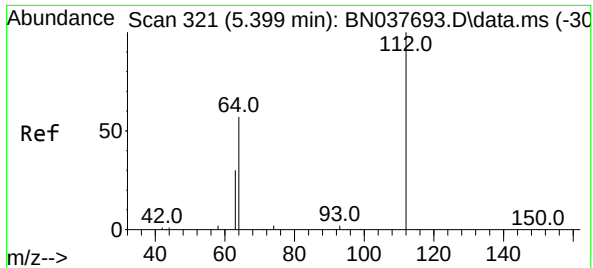
Tgt Ion:152 Resp: 7657
Ion Ratio Lower Upper
152 100
150 155.3 124.5 186.7
115 61.6 49.2 73.8



#2
1,4-Dioxane
Concen: 0.530 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

Tgt Ion: 88 Resp: 4227
Ion Ratio Lower Upper
88 100
43 43.3 26.8 40.2#
58 74.8 61.9 92.9

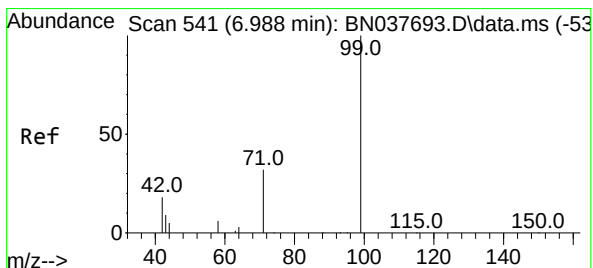
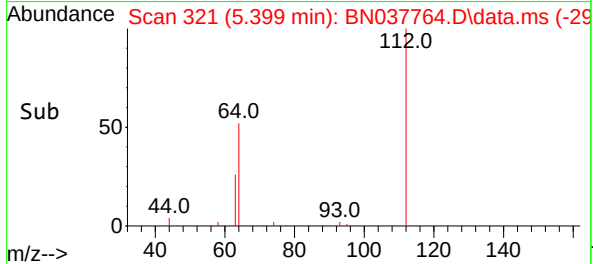
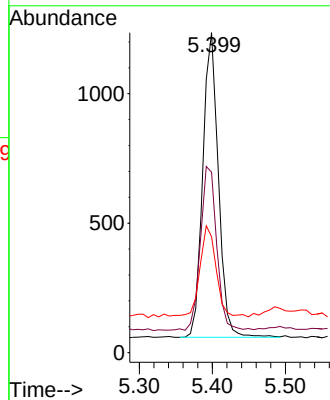
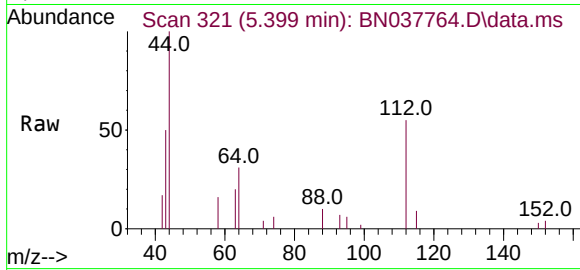




#4
2-Fluorophenol
Concen: 0.099 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

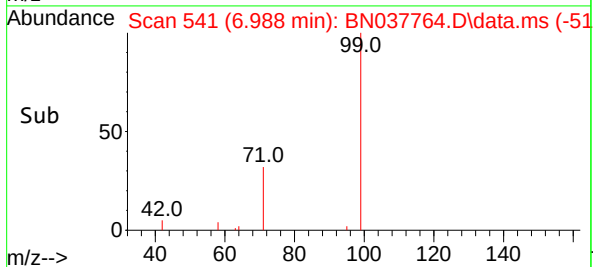
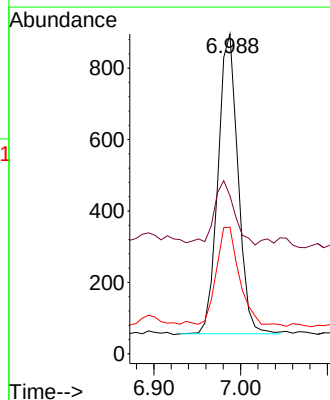
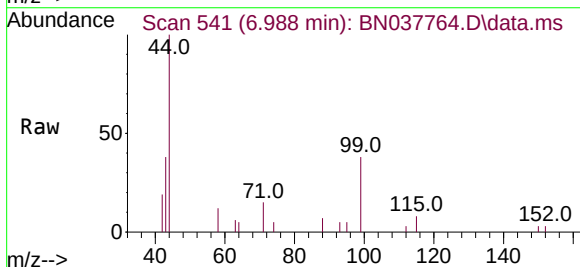
Instrument :
BNA_N
ClientSampleId :
MW305D-20250909

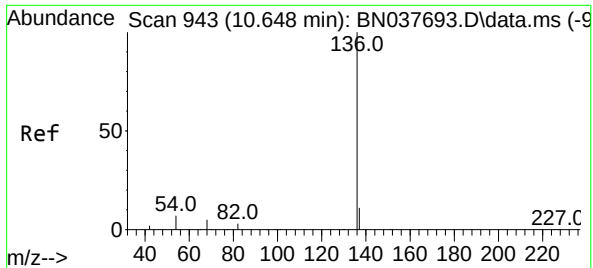
Tgt Ion: 112 Resp: 1748
Ion Ratio Lower Upper
112 100
64 55.8 44.9 67.3
63 30.7 24.7 37.1



#5
Phenol-d6
Concen: 0.059 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

Tgt Ion: 99 Resp: 1348
Ion Ratio Lower Upper
99 100
42 21.4 16.6 24.8
71 38.6 26.7 40.1

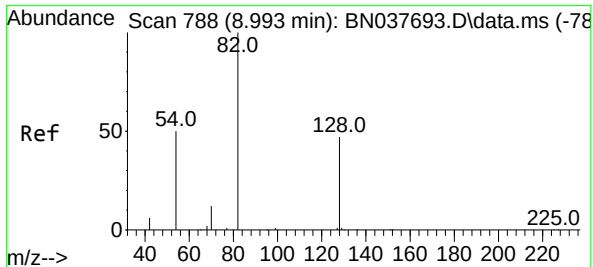
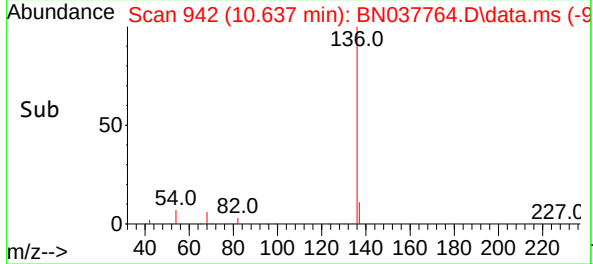
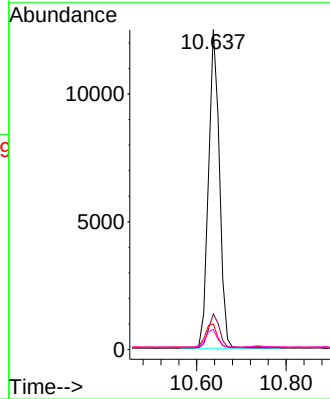
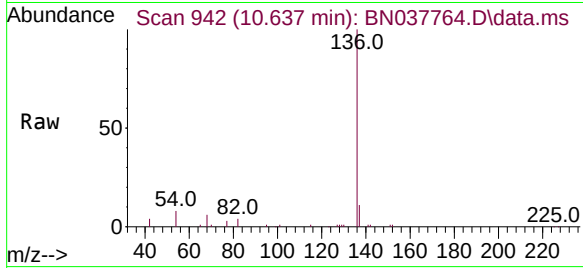




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

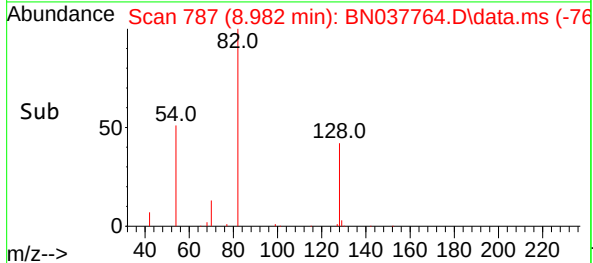
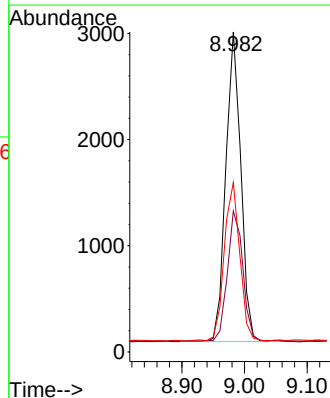
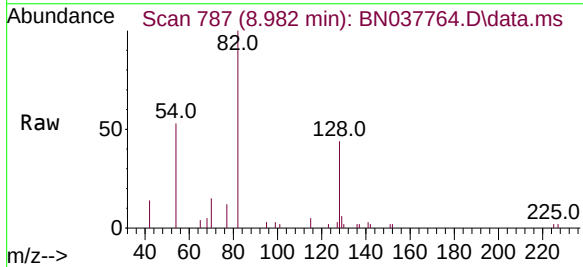
Instrument :
BNA_N
ClientSampleId :
MW305D-20250909

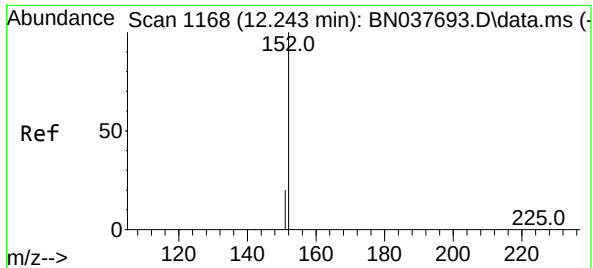
Tgt Ion:	136	Resp:	21168
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.1	13.7
54	8.0	6.3	9.5
68	6.3	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.314 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

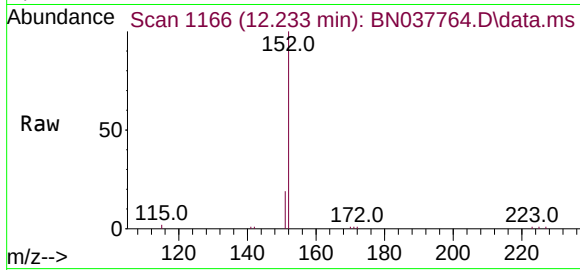
Tgt Ion:	82	Resp:	4861
Ion	Ratio	Lower	Upper
82	100		
128	44.0	38.3	57.5
54	53.0	41.4	62.2



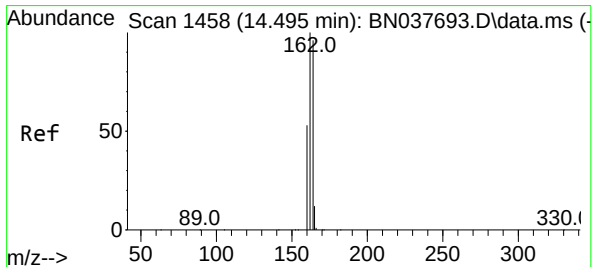
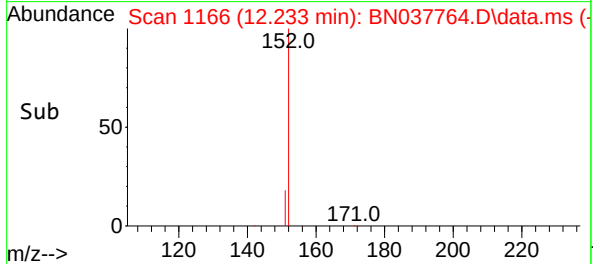
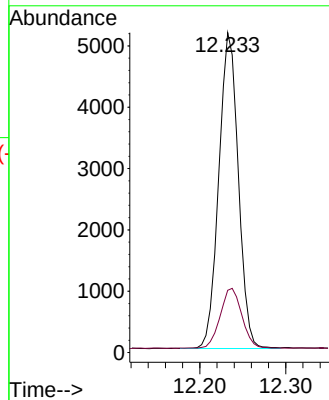


#11
2-Methylnaphthalene-d10
Concen: 0.289 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

Instrument :
BNA_N
ClientSampleId :
MW305D-20250909

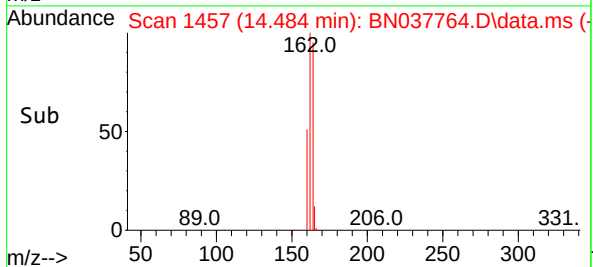
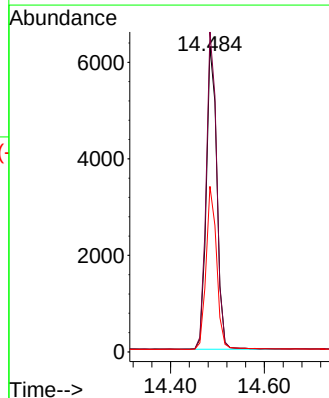
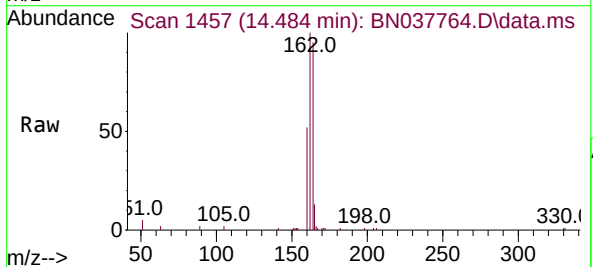


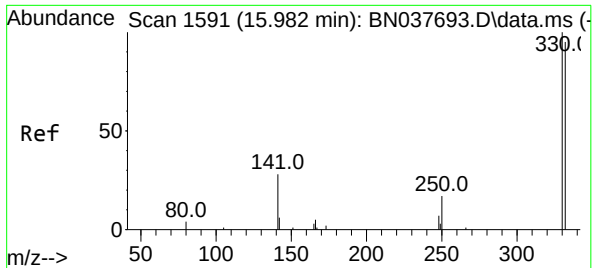
Tgt Ion:152 Resp: 8118
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

Tgt Ion:164 Resp: 9850
Ion Ratio Lower Upper
164 100
162 104.8 83.1 124.7
160 54.2 44.3 66.5

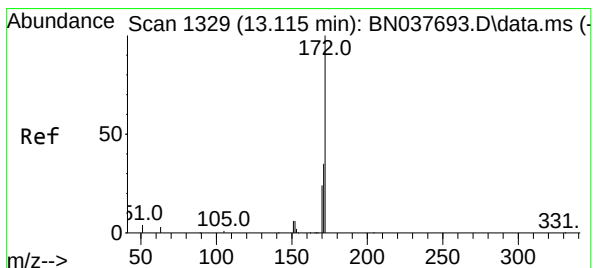
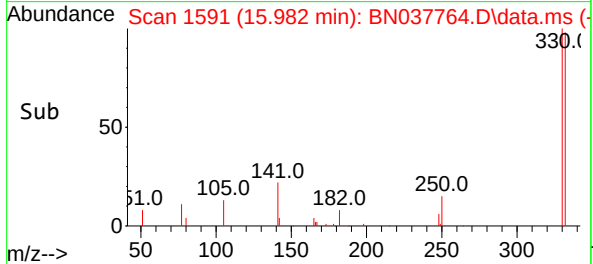
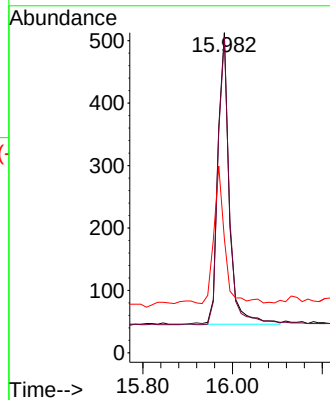
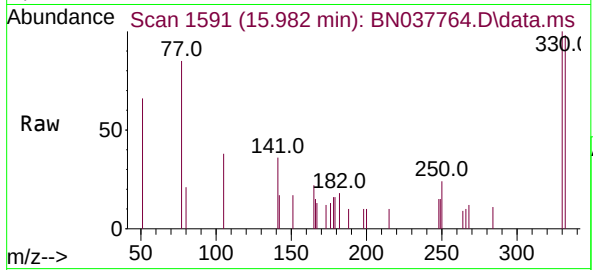




#14
2,4,6-Tribromophenol
Concen: 0.318 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

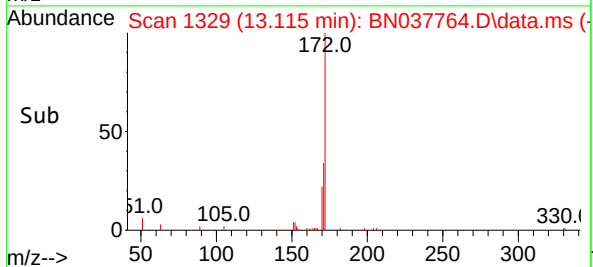
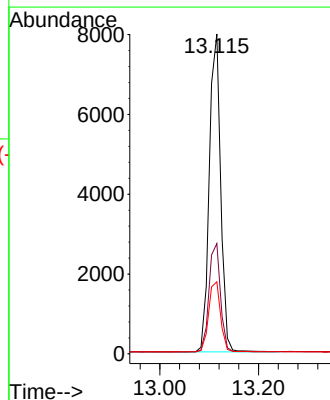
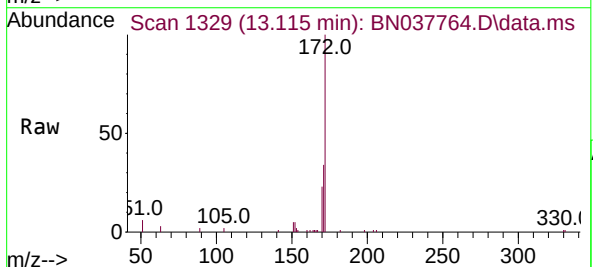
Instrument :
BNA_N
ClientSampleId :
MW305D-20250909

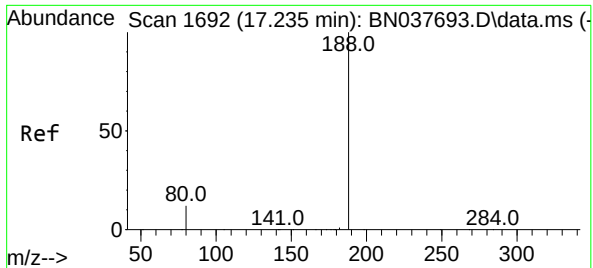
Tgt Ion	330	Resp	816
Ion	Ratio	Lower	Upper
330	100		
332	99.0	75.3	112.9
141	47.2	35.0	52.4



#15
2-Fluorobiphenyl
Concen: 0.309 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

Tgt Ion	172	Resp	12714
Ion	Ratio	Lower	Upper
172	100		
171	34.5	28.6	43.0
170	22.5	19.8	29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037764.D

Acq: 18 Sep 2025 05:46

Instrument :

BNA_N

ClientSampleId :

MW305D-20250909

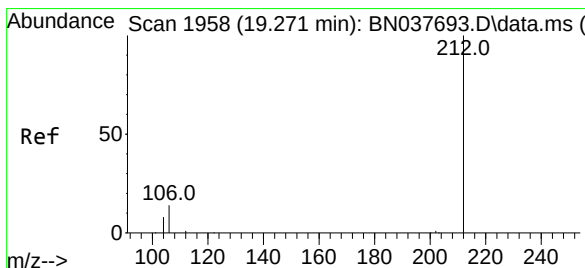
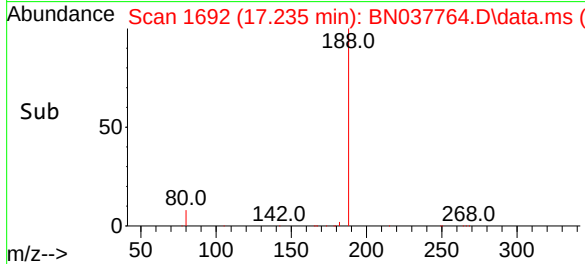
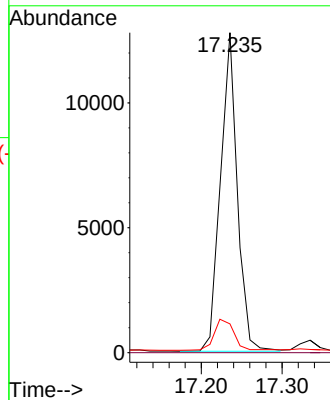
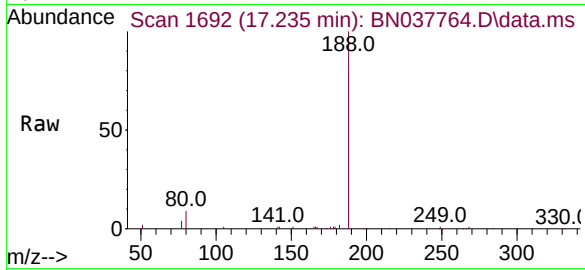
Tgt Ion:188 Resp: 18466

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.0 10.6 15.8#



#27

Fluoranthene-d10

Concen: 0.384 ng

RT: 19.266 min Scan# 1957

Delta R.T. -0.005 min

Lab File: BN037764.D

Acq: 18 Sep 2025 05:46

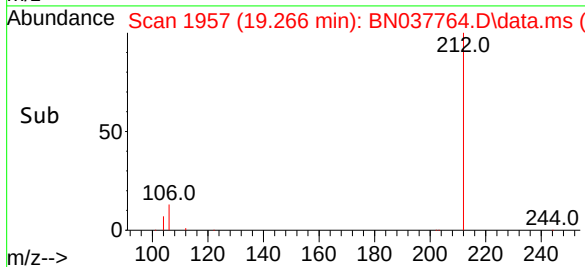
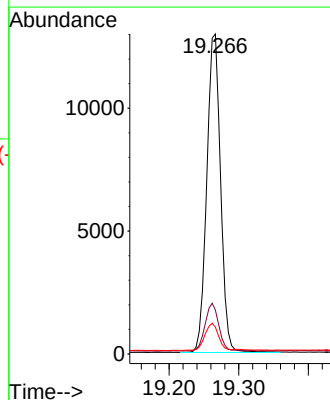
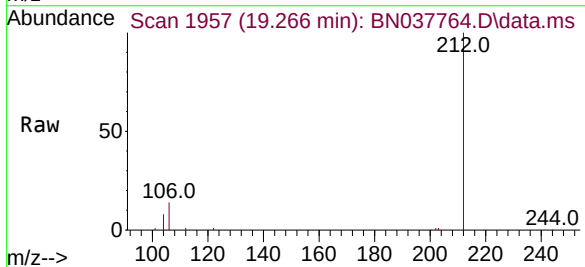
Tgt Ion:212 Resp: 17805

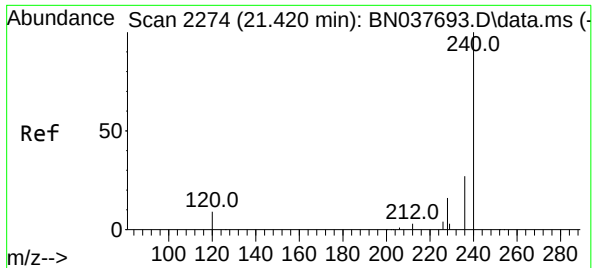
Ion Ratio Lower Upper

212 100

106 14.9 12.2 18.2

104 8.4 6.9 10.3

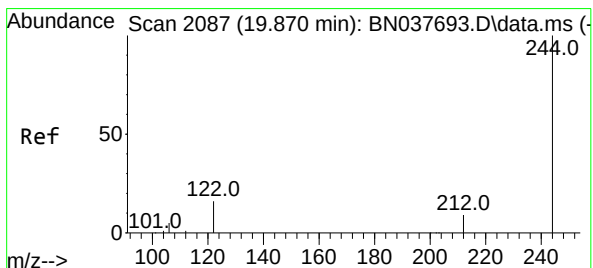
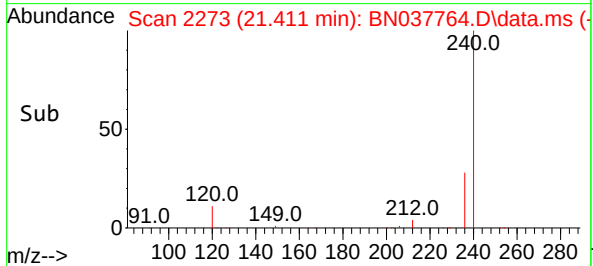
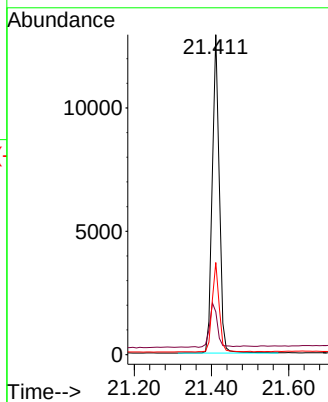
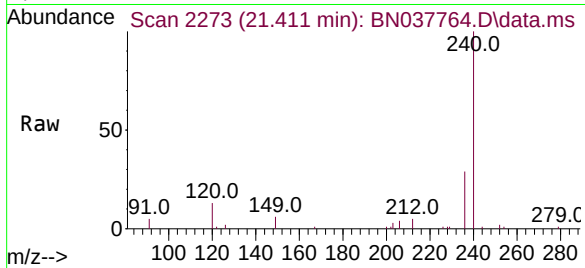




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

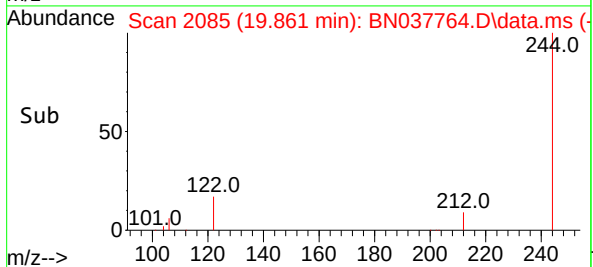
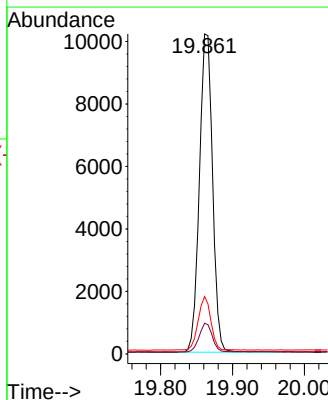
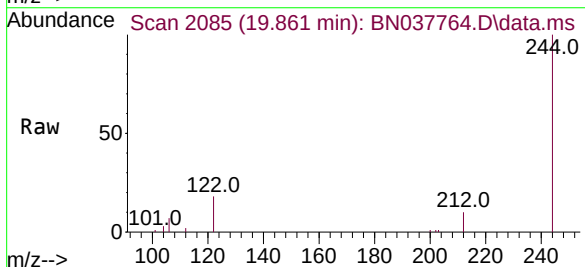
Instrument :
BNA_N
ClientSampleId :
MW305D-20250909

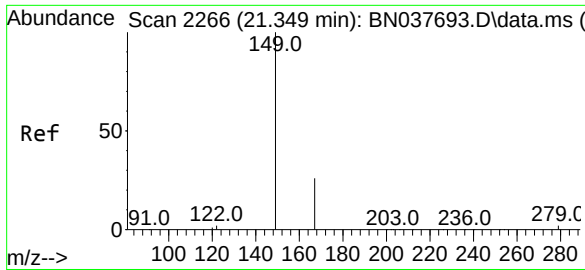
Tgt Ion:240 Resp: 16400
Ion Ratio Lower Upper
240 100
120 13.4 9.2 13.8
236 28.8 22.6 33.8



#31
Terphenyl-d14
Concen: 0.389 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

Tgt Ion:244 Resp: 12957
Ion Ratio Lower Upper
244 100
212 9.6 7.5 11.3
122 17.9 13.2 19.8

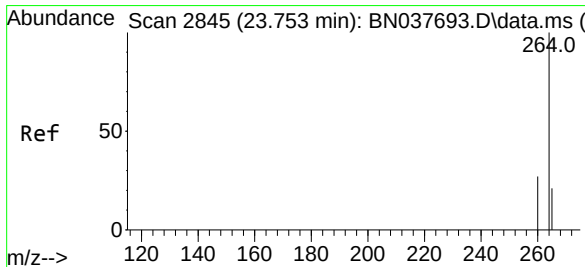
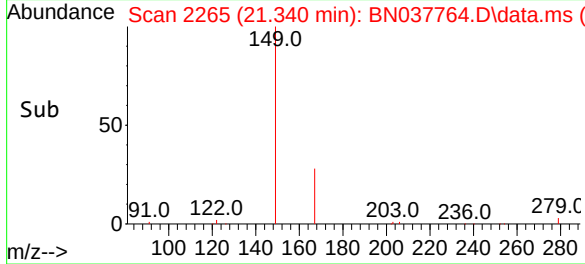
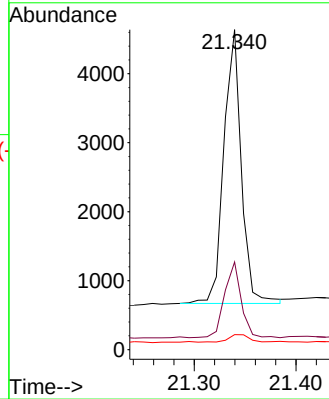
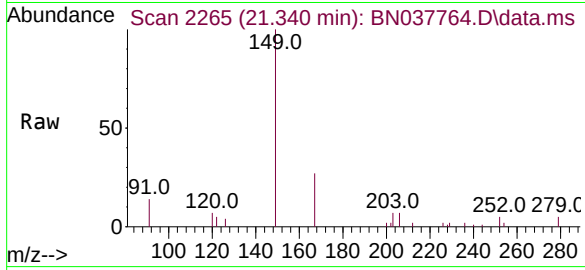




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.280 ng
RT: 21.340 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

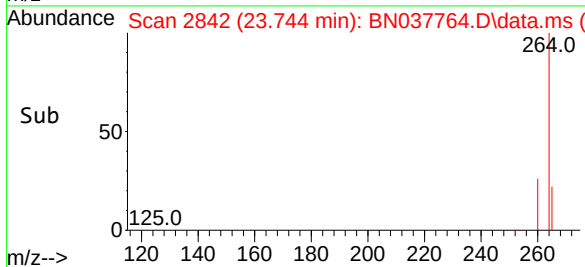
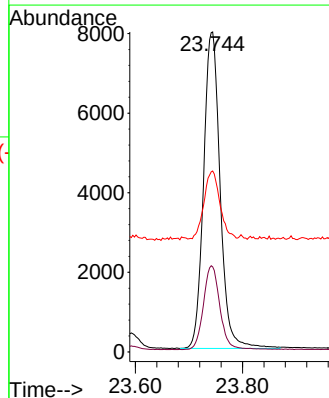
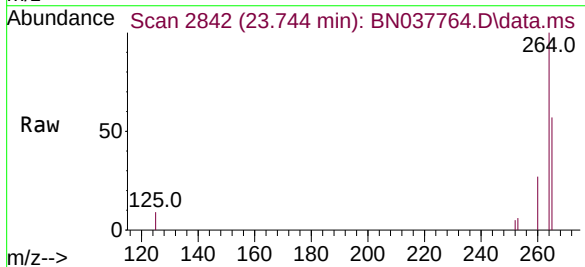
Instrument :
BNA_N
ClientSampleId :
MW305D-20250909

Tgt Ion:149 Resp: 4749
Ion Ratio Lower Upper
149 100
167 26.4 20.8 31.2
279 3.2 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

Tgt Ion:264 Resp: 17053
Ion Ratio Lower Upper
264 100
260 26.6 21.8 32.8
265 56.5 39.4 59.2



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	DUP01-20250909	SDG No.:	Q3095
Lab Sample ID:	Q3095-17	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
BN037765.D	1	09/15/25 10:15	09/18/25 06:23	PB169692

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	0.30		30 - 150		75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		92%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		106%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7820	7.833				
1146-65-2	Naphthalene-d8	21300	10.637				
15067-26-2	Acenaphthene-d10	9720	14.484				
1517-22-2	Phenanthrene-d10	17200	17.236				
1719-03-5	Chrysene-d12	13600	21.411				
1520-96-3	Perylene-d12	14200	23.742				

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\BN091725\
 Data File : BN037765.D
 Acq On : 18 Sep 2025 06:23
 Operator : RC/JU
 Sample : Q3095-17
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 DUP01-20250909

Quant Time: Sep 18 07:55:01 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

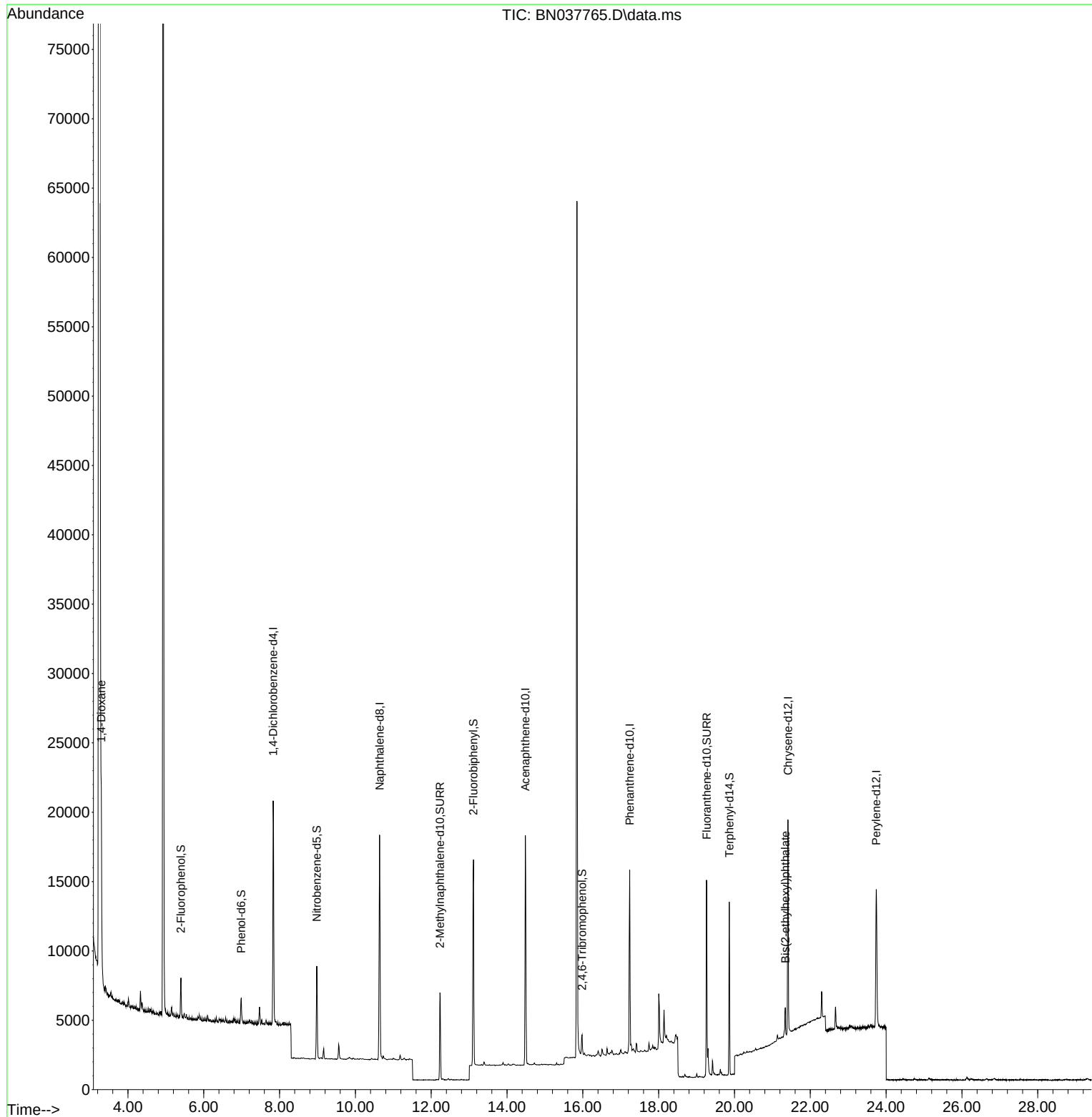
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7819	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	21320	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	9718	0.400	ng	-0.01
19) Phenanthrene-d10	17.236	188	17159	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	13647	0.400	ng	# 0.00
35) Perylene-d12	23.742	264	14246	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2247	0.125	ng	0.00
5) Phenol-d6	6.988	99	1627	0.070	ng	0.00
8) Nitrobenzene-d5	8.982	82	5074	0.325	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	8485	0.300	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	988	0.390	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	13429	0.330	ng	0.00
27) Fluoranthene-d10	19.267	212	15856	0.368	ng	0.00
31) Terphenyl-d14	19.861	244	11784	0.425	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	4197	0.515	ng	# 93
34) Bis(2-ethylhexyl)phtha...	21.340	149	2344	0.166	ng	98

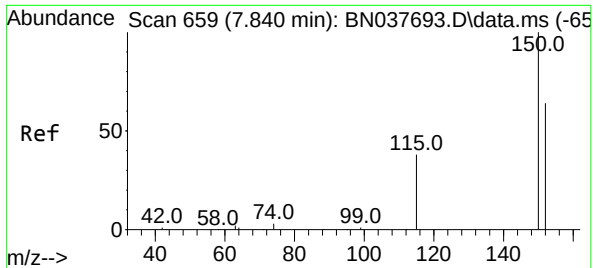
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037765.D
Acq On : 18 Sep 2025 06:23
Operator : RC/JU
Sample : Q3095-17
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP01-20250909

Quant Time: Sep 18 07:55:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

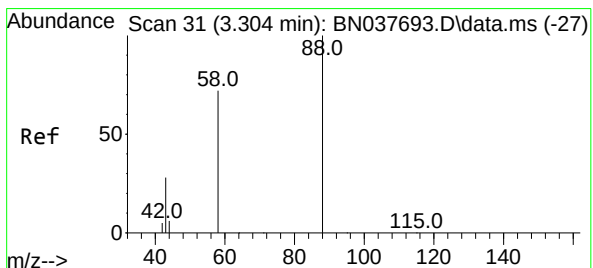
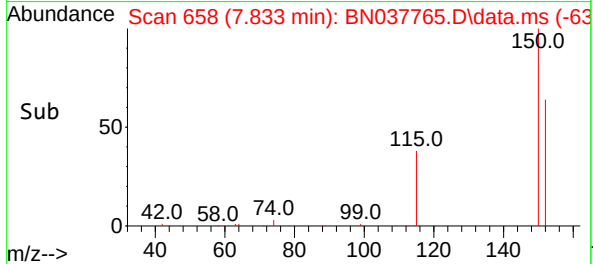
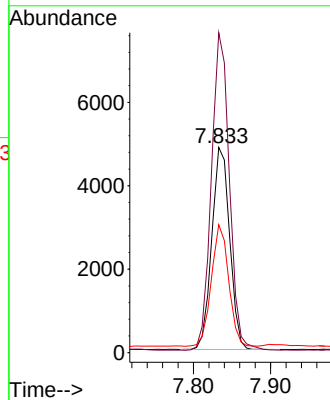
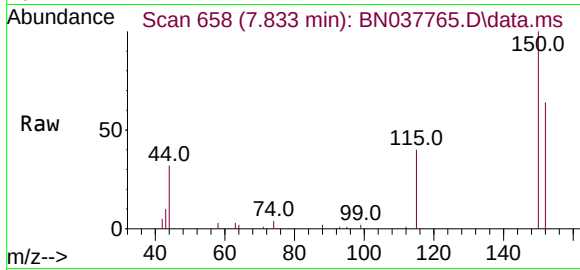




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.833 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN037765.D
 Acq: 18 Sep 2025 06:23

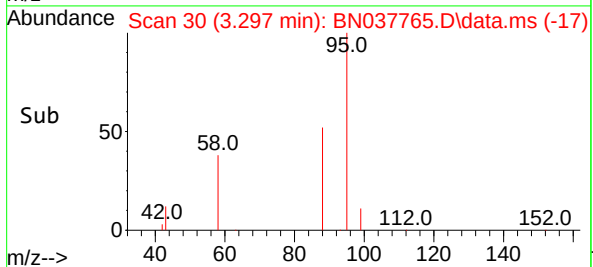
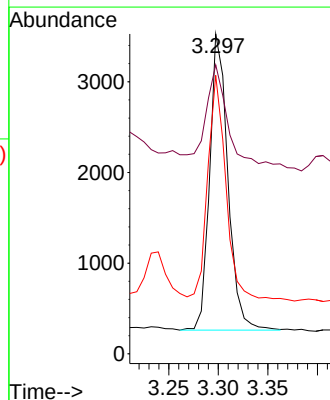
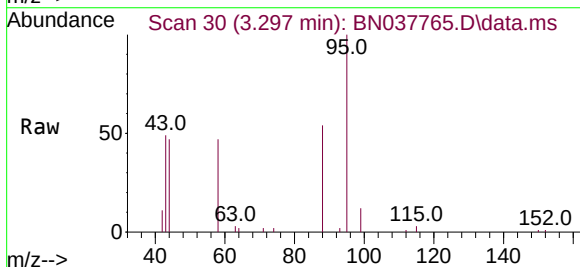
Instrument :
 BNA_N
 ClientSampleId :
 DUP01-20250909

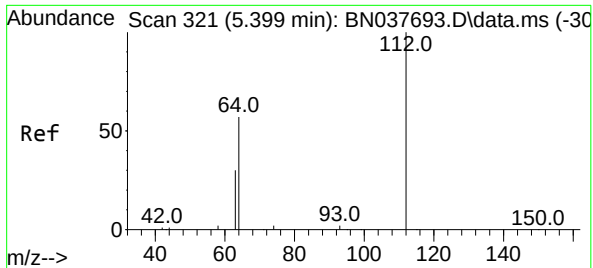
Tgt Ion:152 Resp: 7819
 Ion Ratio Lower Upper
 152 100
 150 155.9 124.5 186.7
 115 62.3 49.2 73.8



#2
 1,4-Dioxane
 Concen: 0.515 ng
 RT: 3.297 min Scan# 30
 Delta R.T. -0.007 min
 Lab File: BN037765.D
 Acq: 18 Sep 2025 06:23

Tgt Ion: 88 Resp: 4197
 Ion Ratio Lower Upper
 88 100
 43 41.9 26.8 40.2#
 58 74.5 61.9 92.9

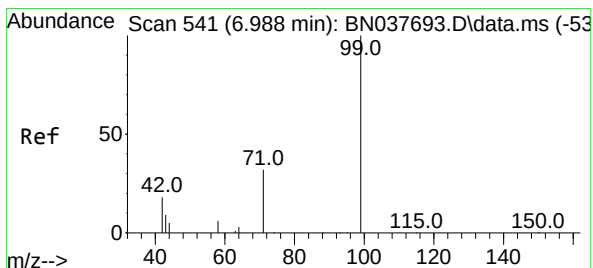
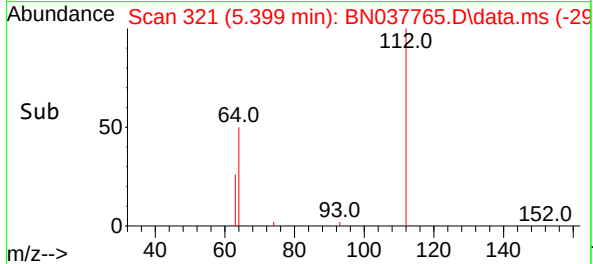
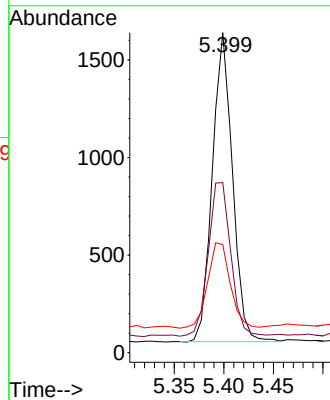
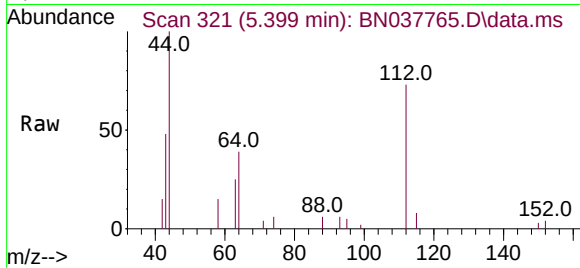




#4
2-Fluorophenol
Concen: 0.125 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

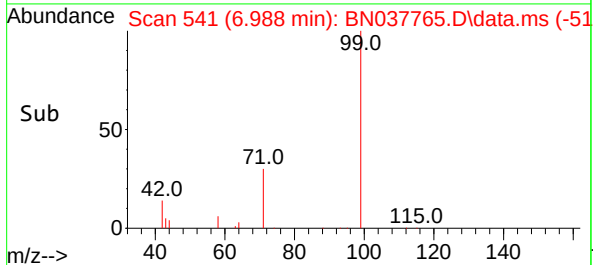
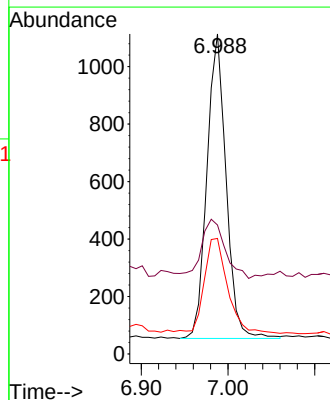
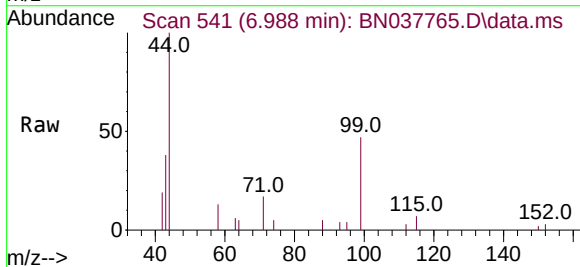
Instrument :
BNA_N
ClientSampleId :
DUP01-20250909

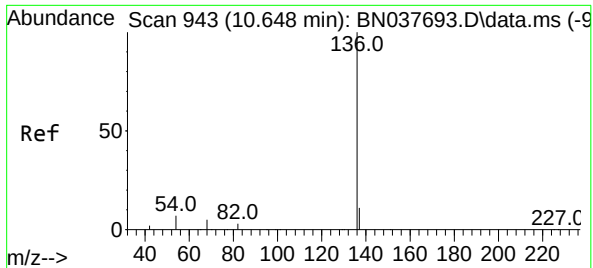
Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.4	44.9	67.3
63	31.0	24.7	37.1



#5
Phenol-d6
Concen: 0.070 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.9	16.6	24.8
71	38.0	26.7	40.1

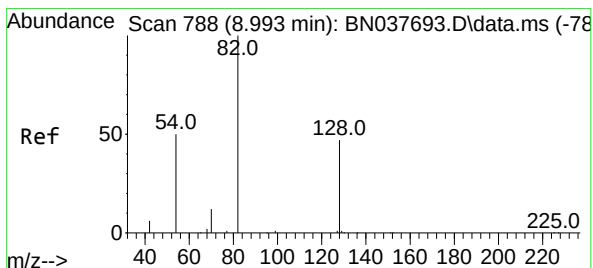
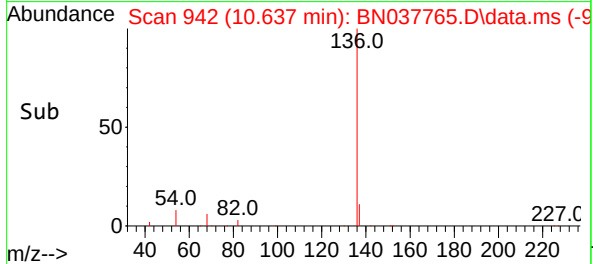
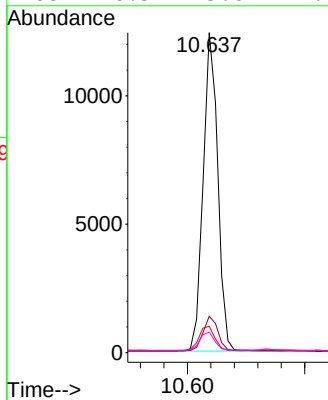
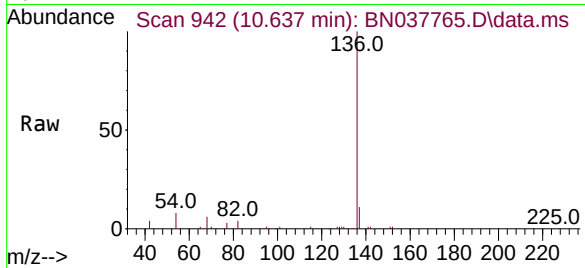




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

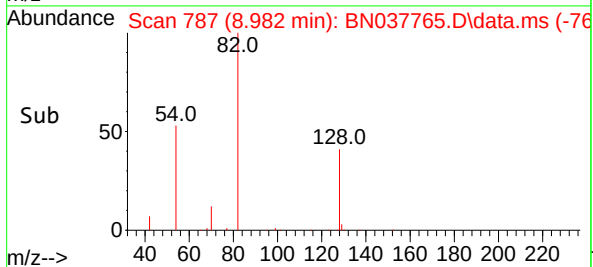
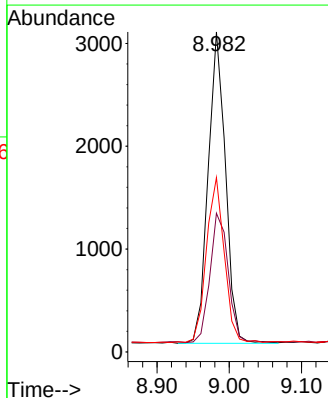
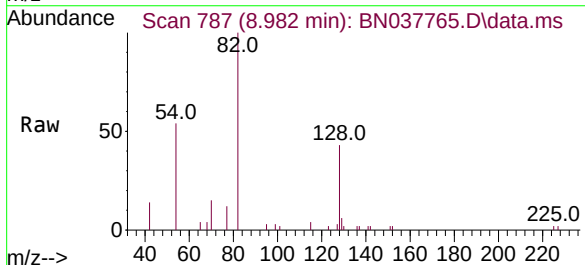
Instrument :
BNA_N
ClientSampleId :
DUP01-20250909

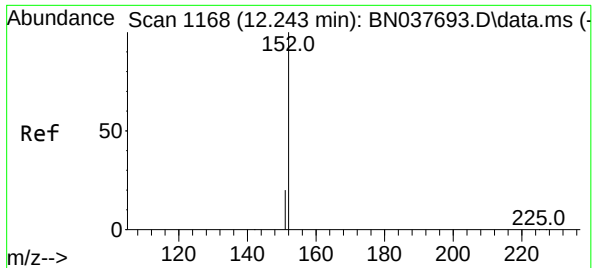
Tgt Ion:136	Resp:	21320
Ion Ratio	Lower	Upper
136	100	
137	11.4	9.1 13.7
54	8.2	6.3 9.5
68	6.5	5.0 7.4



#8
Nitrobenzene-d5
Concen: 0.325 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

Tgt Ion: 82	Resp:	5074
Ion Ratio	Lower	Upper
82	100	
128	43.3	38.3 57.5
54	54.5	41.4 62.2

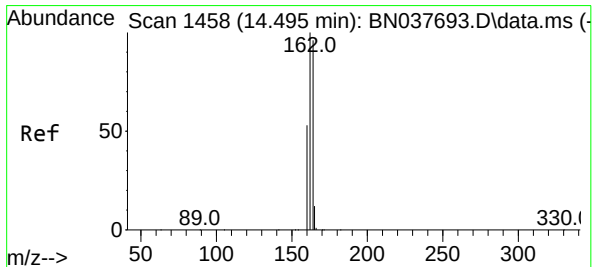
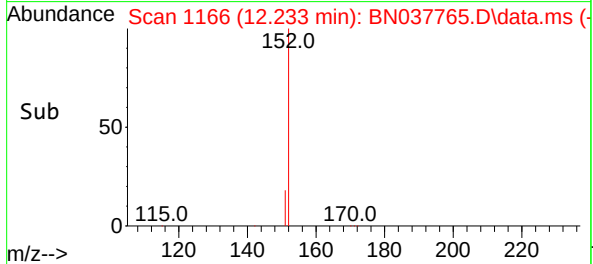
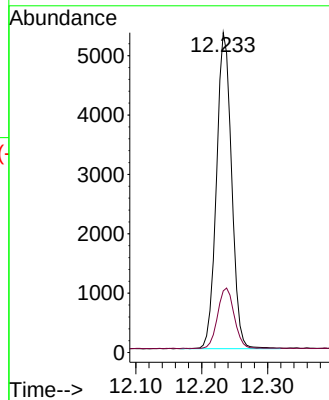
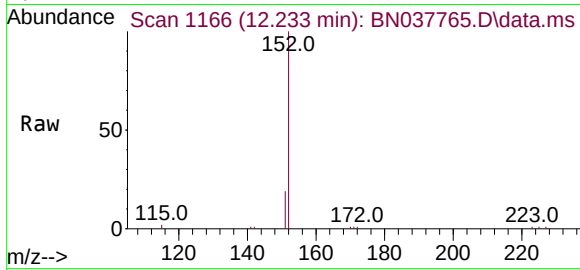




#11
2-Methylnaphthalene-d10
Concen: 0.300 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

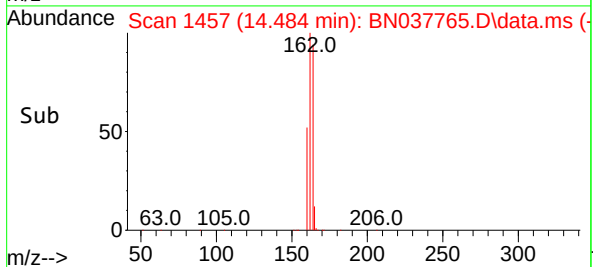
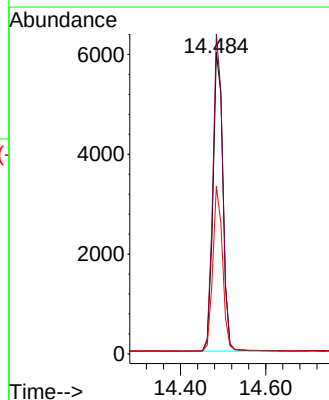
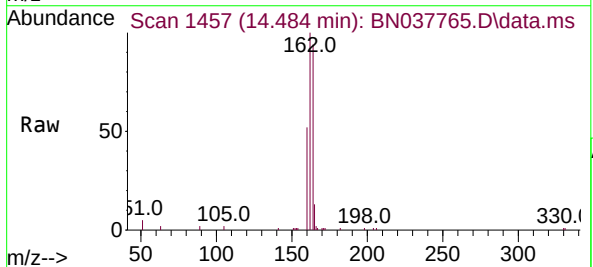
Instrument :
BNA_N
ClientSampleId :
DUP01-20250909

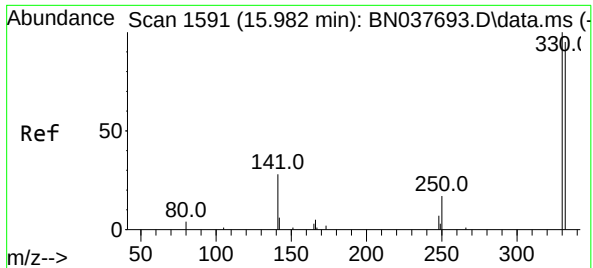
Tgt Ion:152 Resp: 8485
Ion Ratio Lower Upper
152 100
151 21.0 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

Tgt Ion:164 Resp: 9718
Ion Ratio Lower Upper
164 100
162 106.1 83.1 124.7
160 55.5 44.3 66.5

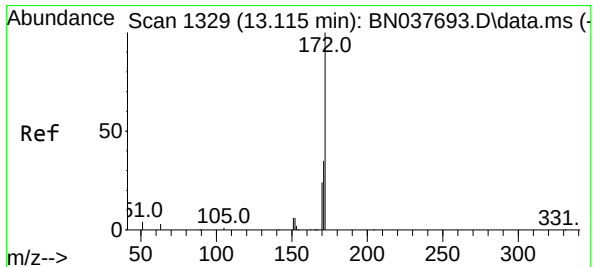
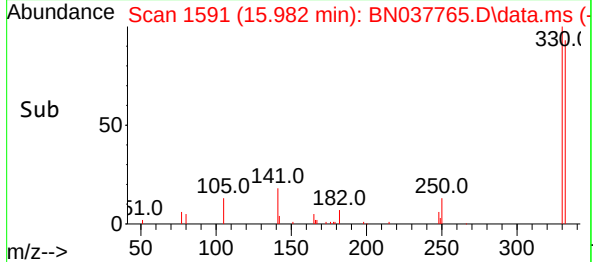
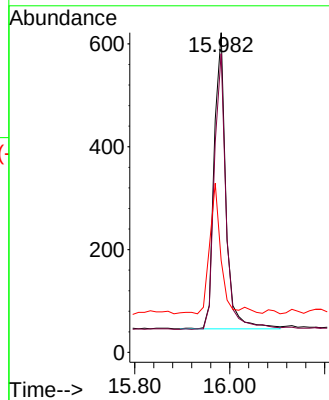
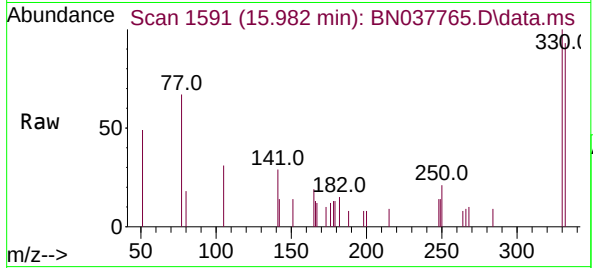




#14
2,4,6-Tribromophenol
Concen: 0.390 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

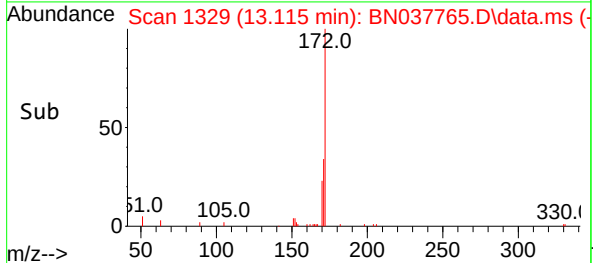
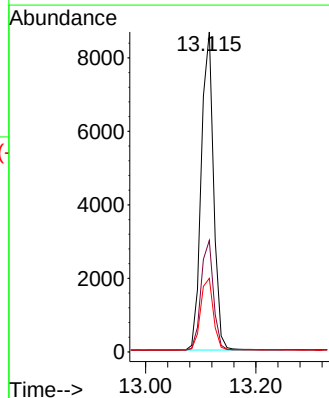
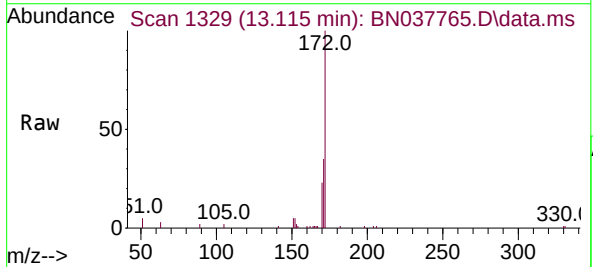
Instrument :
BNA_N
ClientSampleId :
DUP01-20250909

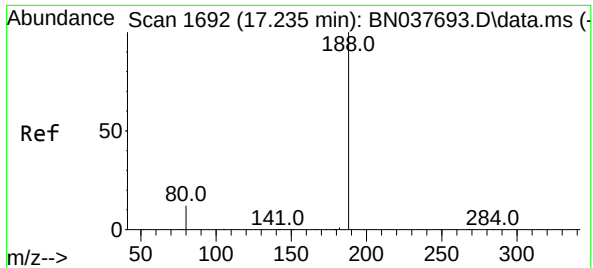
Tgt Ion:	330	Resp:	988
Ion	Ratio	Lower	Upper
330	100		
332	93.3	75.3	112.9
141	41.8	35.0	52.4



#15
2-Fluorobiphenyl
Concen: 0.330 ng
RT: 13.115 min Scan# 1329
Delta R.T. 0.000 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

Tgt Ion:	172	Resp:	13429
Ion	Ratio	Lower	Upper
172	100		
171	34.8	28.6	43.0
170	23.0	19.8	29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.236 min Scan# 1692

Delta R.T. 0.000 min

Lab File: BN037765.D

Acq: 18 Sep 2025 06:23

Instrument :

BNA_N

ClientSampleId :

DUP01-20250909

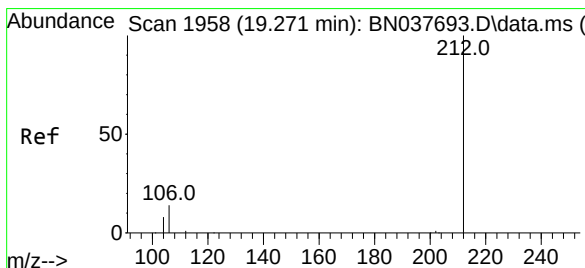
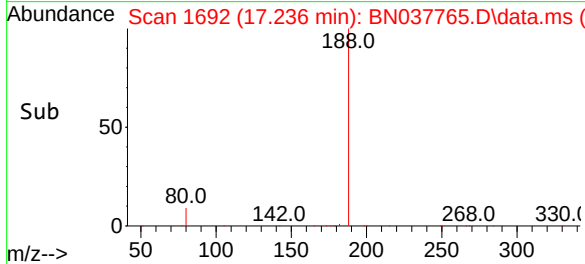
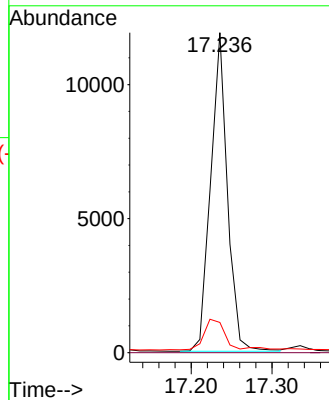
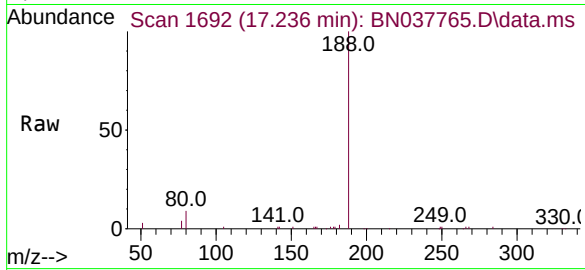
Tgt Ion:188 Resp: 17159

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.4 10.6 15.8#



#27

Fluoranthene-d10

Concen: 0.368 ng

RT: 19.267 min Scan# 1957

Delta R.T. -0.005 min

Lab File: BN037765.D

Acq: 18 Sep 2025 06:23

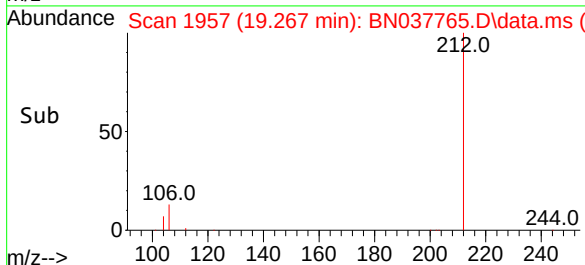
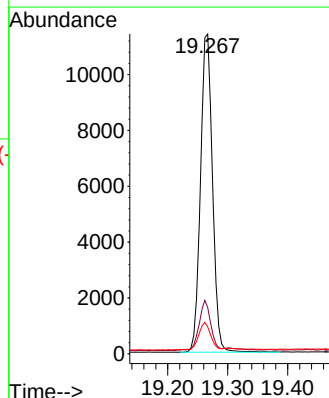
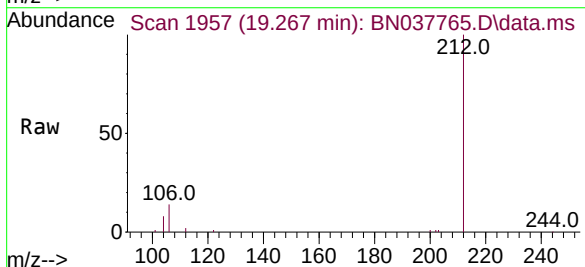
Tgt Ion:212 Resp: 15856

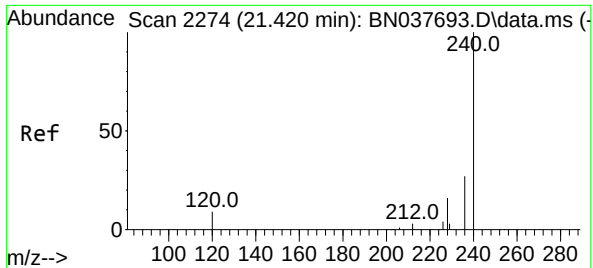
Ion Ratio Lower Upper

212 100

106 15.3 12.2 18.2

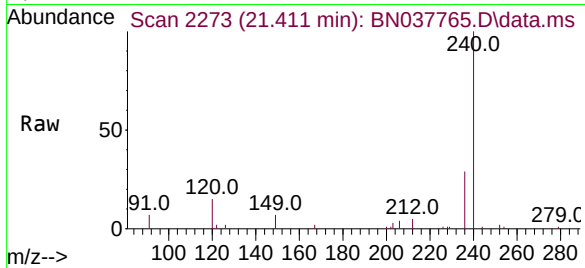
104 8.7 6.9 10.3



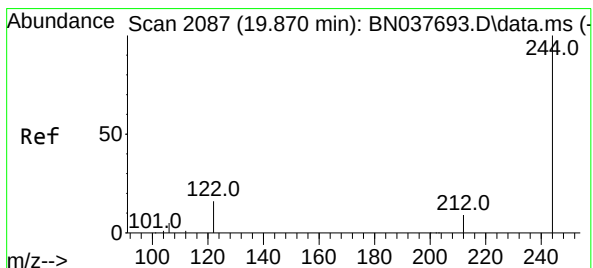
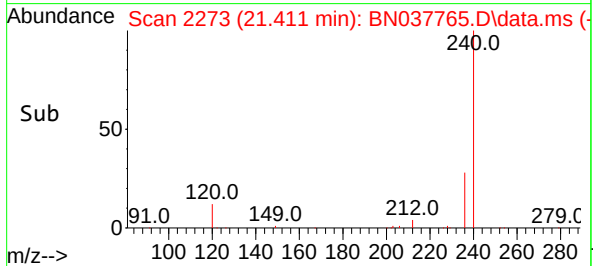
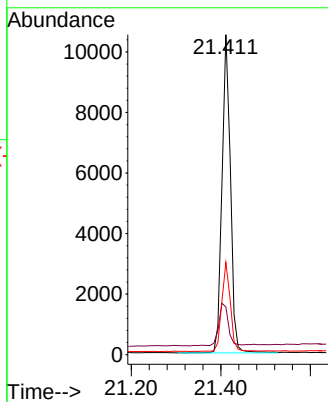


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

Instrument :
BNA_N
ClientSampleId :
DUP01-20250909

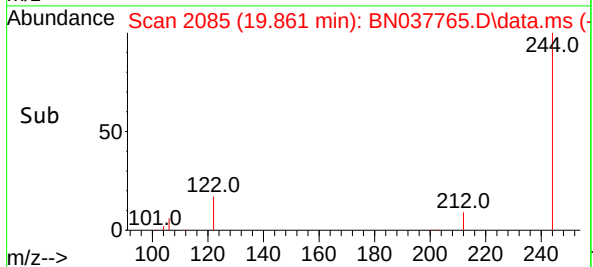
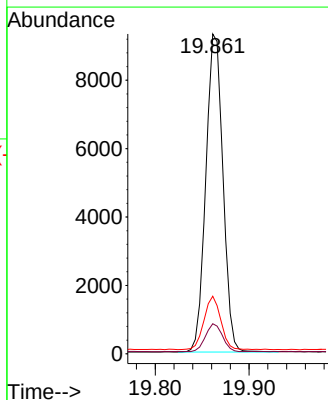
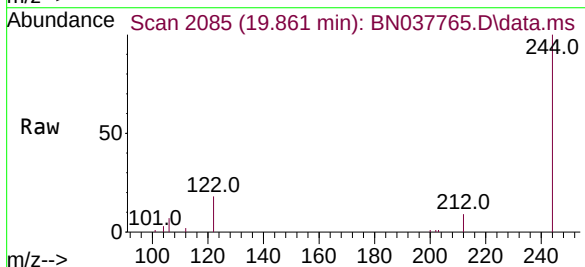


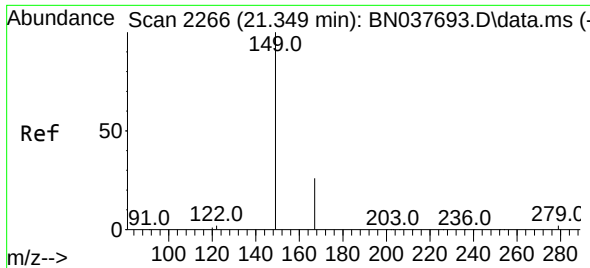
Tgt Ion:240 Resp: 13647
Ion Ratio Lower Upper
240 100
120 14.9 9.2 13.8#
236 28.8 22.6 33.8



#31
Terphenyl-d14
Concen: 0.425 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

Tgt Ion:244 Resp: 11784
Ion Ratio Lower Upper
244 100
212 9.4 7.5 11.3
122 18.0 13.2 19.8

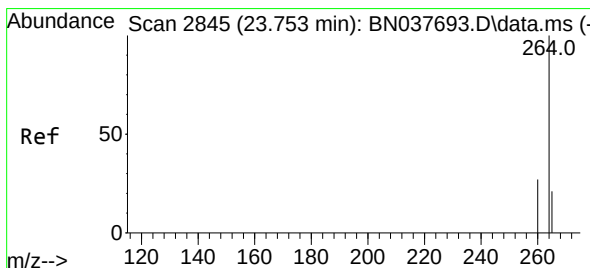
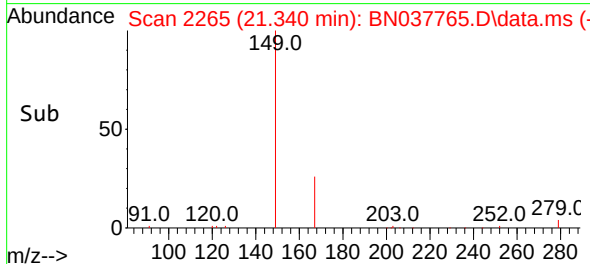
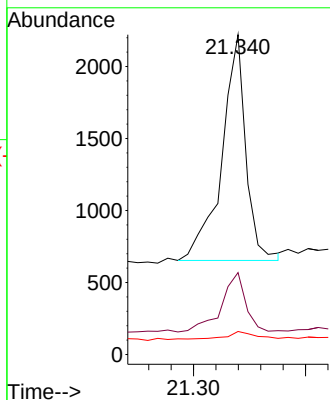
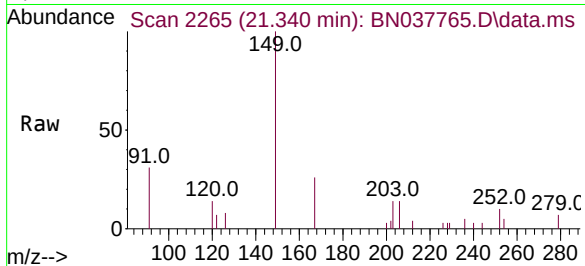




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.166 ng
RT: 21.340 min Scan# 2134
Delta R.T. -0.009 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

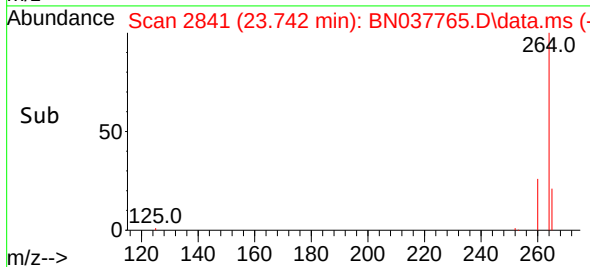
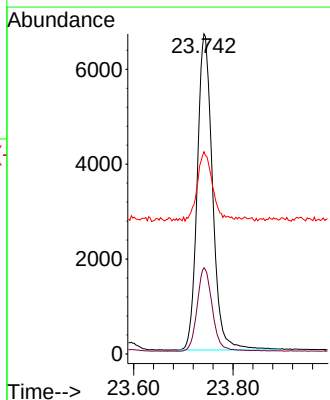
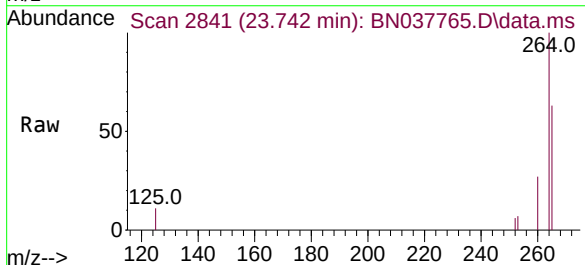
Instrument :
BNA_N
ClientSampleId :
DUP01-20250909

Tgt Ion:149 Resp: 2344
Ion Ratio Lower Upper
149 100
167 26.8 20.8 31.2
279 3.6 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.742 min Scan# 2841
Delta R.T. -0.012 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

Tgt Ion:264 Resp: 14246
Ion Ratio Lower Upper
264 100
260 26.9 21.8 32.8
265 63.2 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE126D2-20250909	SDG No.:	Q3095
Lab Sample ID:	Q3095-18	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
BN037766.D	1	09/15/25 10:15	09/18/25 06:59	PB169692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.60		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		79%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		108%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8400	7.833				
1146-65-2	Naphthalene-d8	23300	10.637				
15067-26-2	Acenaphthene-d10	10700	14.484				
1517-22-2	Phenanthrene-d10	18600	17.236				
1719-03-5	Chrysene-d12	13600	21.411				
1520-96-3	Perylene-d12	14300	23.745				

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\BN091725\
 Data File : BN037766.D
 Acq On : 18 Sep 2025 06:59
 Operator : RC/JU
 Sample : Q3095-18
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE126D2-20250909

Quant Time: Sep 18 07:55:18 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

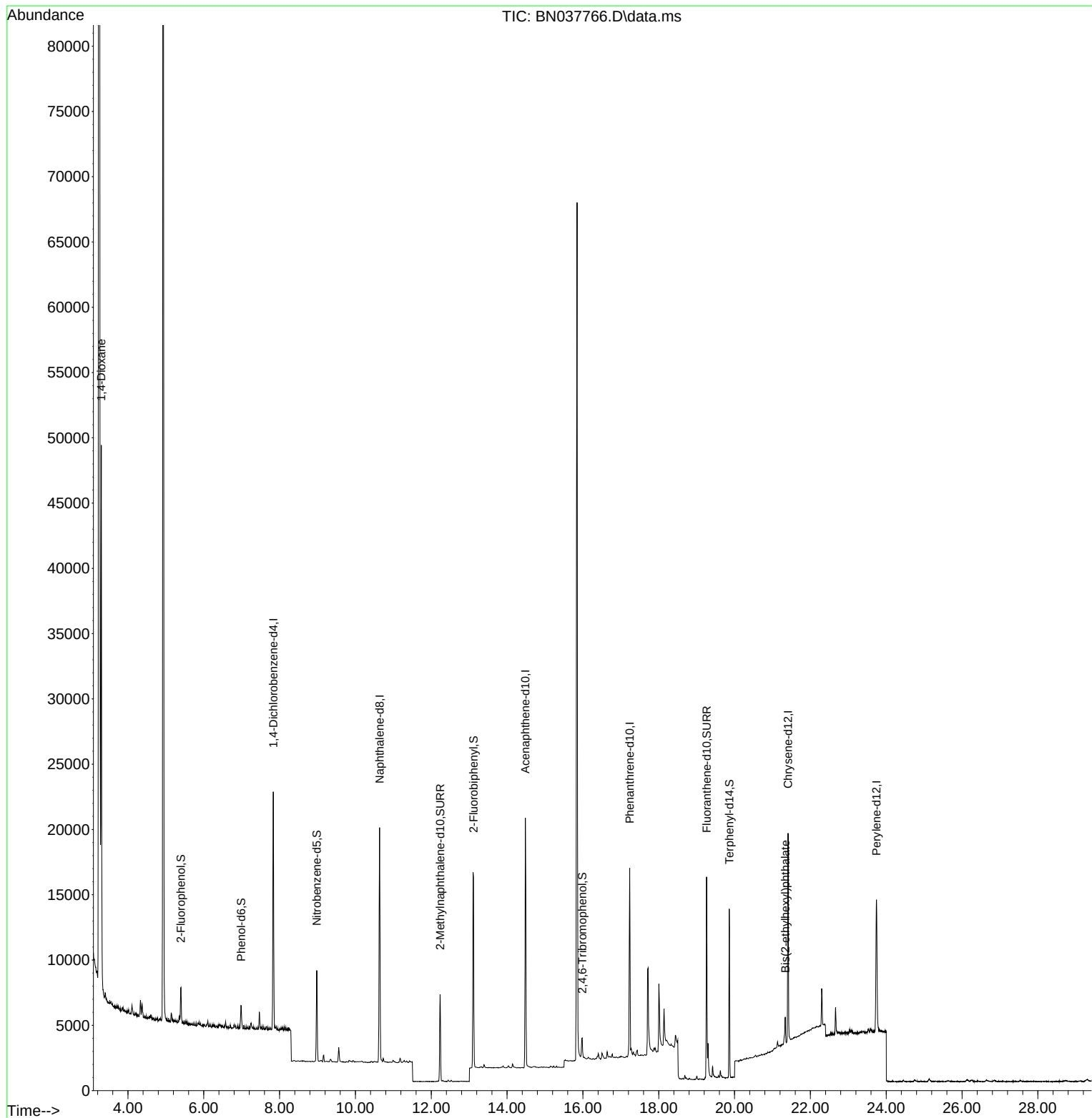
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	8399	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	23335	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	10732	0.400	ng	-0.01
19) Phenanthrene-d10	17.236	188	18615	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	13639	0.400	ng	0.00
35) Perylene-d12	23.745	264	14319	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2304	0.119	ng	0.00
5) Phenol-d6	6.988	99	1698	0.068	ng	0.00
8) Nitrobenzene-d5	8.982	82	5216	0.306	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	8958	0.290	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	1036	0.370	ng	0.00
15) 2-Fluorobiphenyl	13.116	172	14218	0.317	ng	0.00
27) Fluoranthene-d10	19.262	212	16425	0.351	ng	0.00
31) Terphenyl-d14	19.861	244	11960	0.432	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	22522	2.574	ng	96
34) Bis(2-ethylhexyl)phtha...	21.340	149	2756	0.195	ng	96

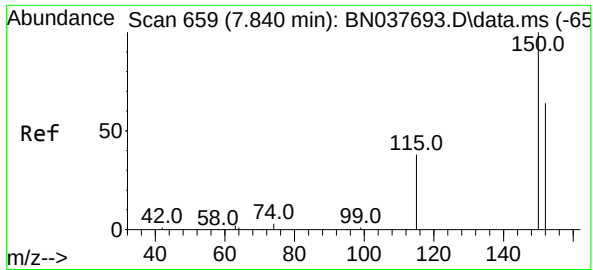
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037766.D
Acq On : 18 Sep 2025 06:59
Operator : RC/JU
Sample : Q3095-18
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE126D2-20250909

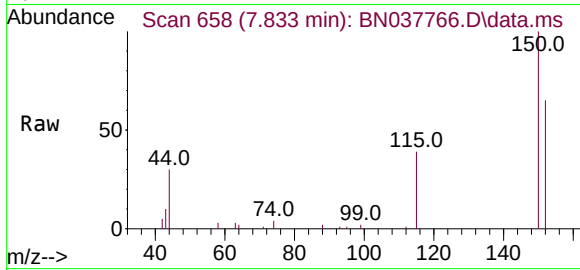
Quant Time: Sep 18 07:55:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



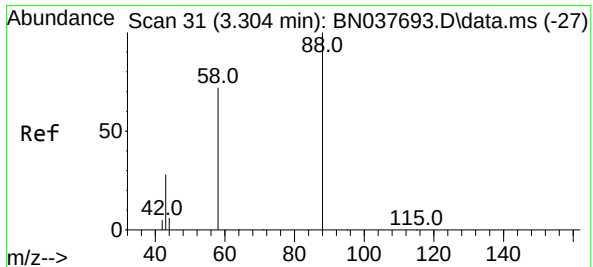
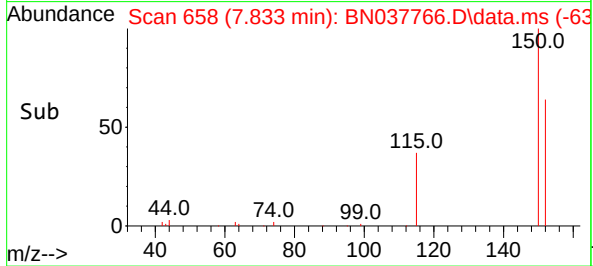
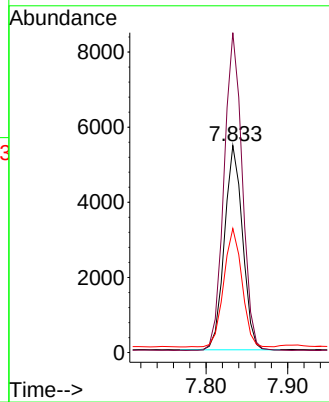


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.833 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN037766.D
 Acq: 18 Sep 2025 06:59

Instrument :
 BNA_N
 ClientSampleId :
 RE126D2-20250909

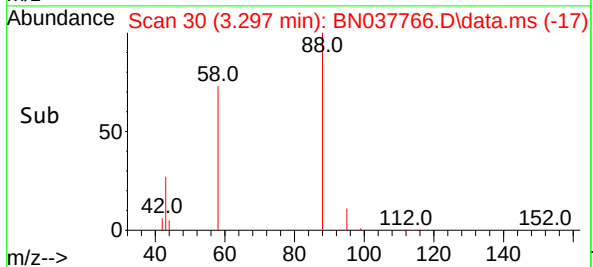
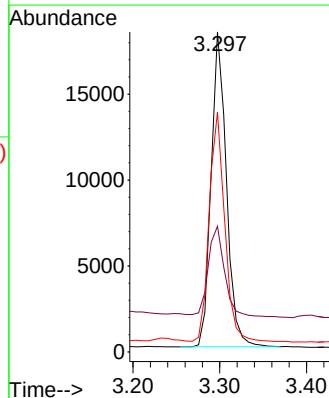
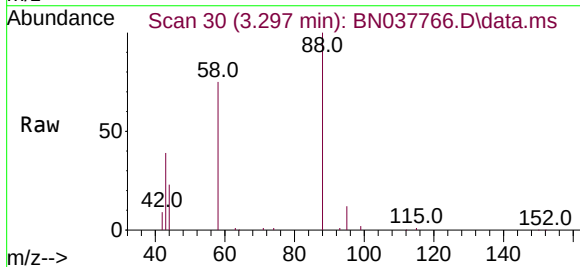


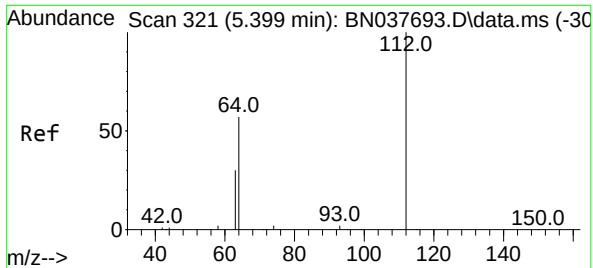
Tgt Ion:152 Resp: 8399
 Ion Ratio Lower Upper
 152 100
 150 154.5 124.5 186.7
 115 59.9 49.2 73.8



#2
 1,4-Dioxane
 Concen: 2.574 ng
 RT: 3.297 min Scan# 30
 Delta R.T. -0.007 min
 Lab File: BN037766.D
 Acq: 18 Sep 2025 06:59

Tgt Ion: 88 Resp: 22522
 Ion Ratio Lower Upper
 88 100
 43 31.1 26.8 40.2
 58 73.4 61.9 92.9

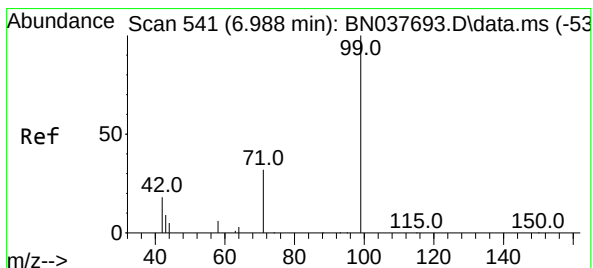
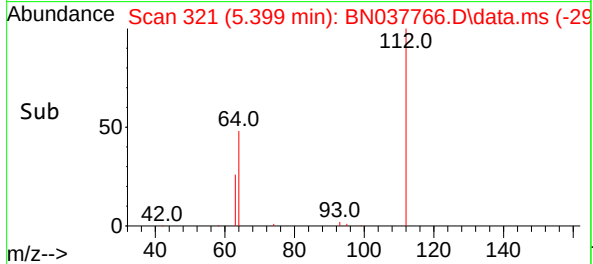
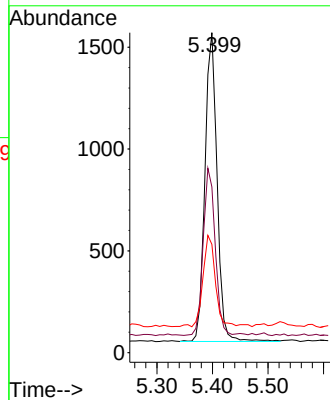
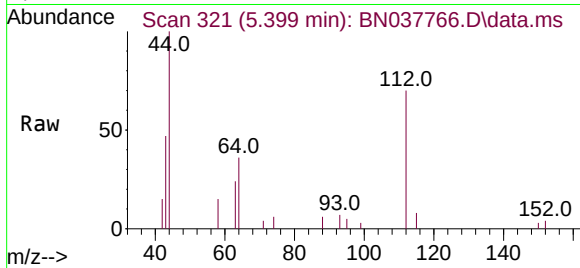




#4
2-Fluorophenol
Concen: 0.119 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

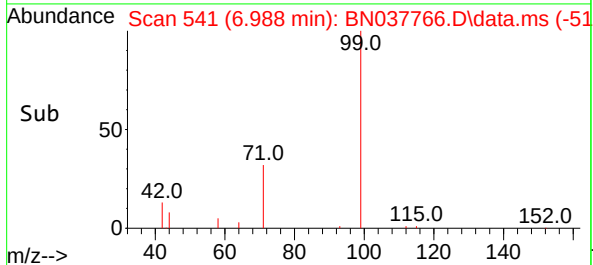
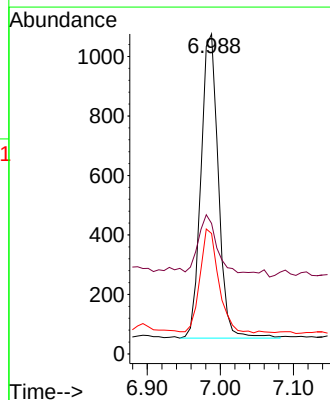
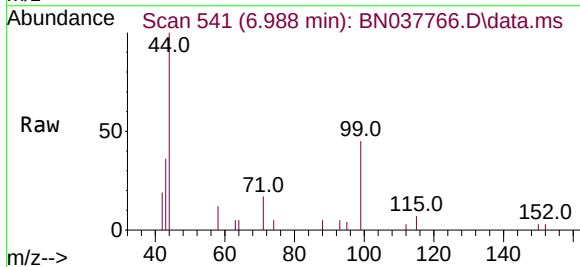
Instrument :
BNA_N
ClientSampleId :
RE126D2-20250909

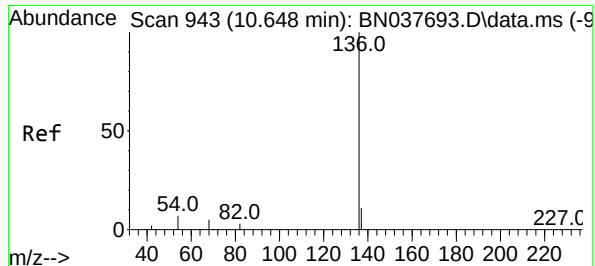
Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.8	44.9	67.3
63	29.9	24.7	37.1



#5
Phenol-d6
Concen: 0.068 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.7	16.6	24.8
71	36.6	26.7	40.1

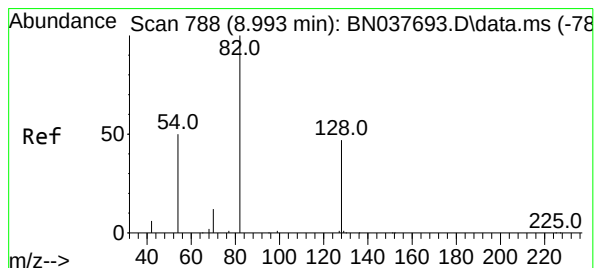
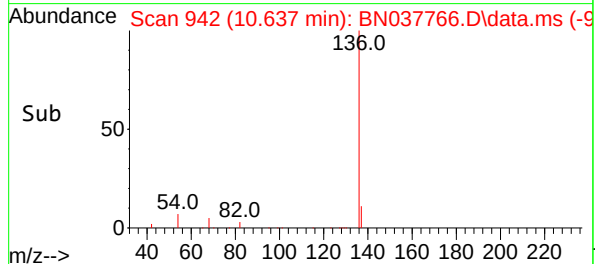
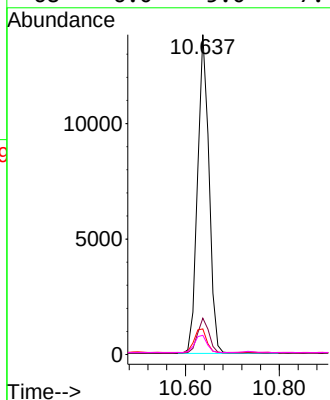
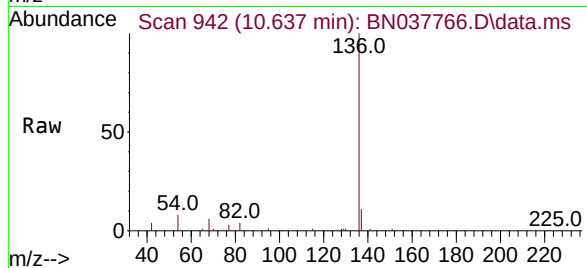




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

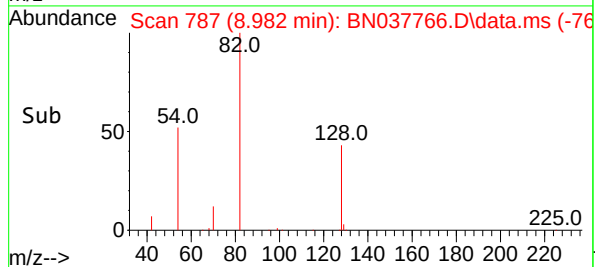
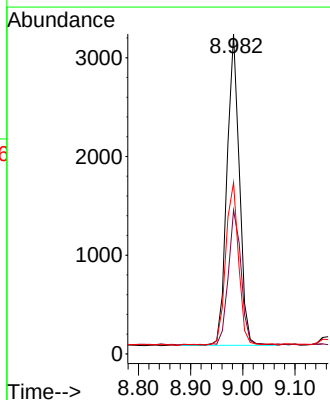
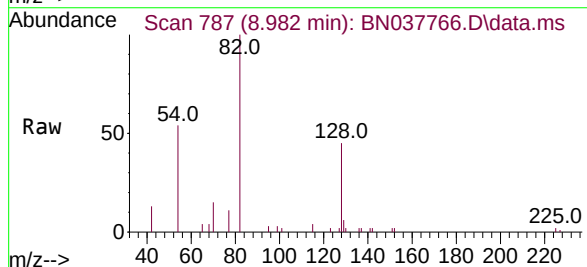
Instrument :
BNA_N
ClientSampleId :
RE126D2-20250909

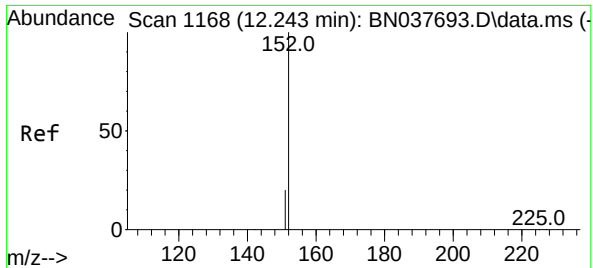
Tgt Ion:136	Resp:	23335
Ion Ratio	Lower	Upper
136	100	
137	11.4	9.1 13.7
54	8.0	6.3 9.5
68	6.0	5.0 7.4



#8
Nitrobenzene-d5
Concen: 0.306 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

Tgt Ion: 82	Resp:	5216
Ion Ratio	Lower	Upper
82	100	
128	44.9	38.3 57.5
54	53.5	41.4 62.2

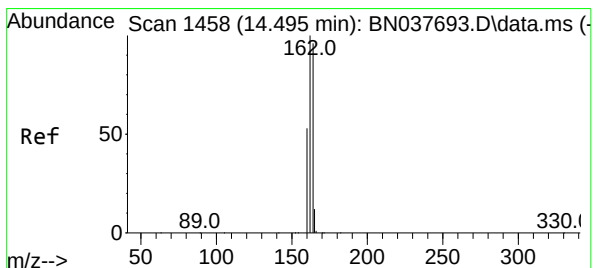
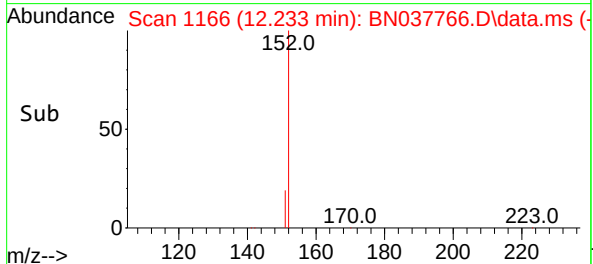
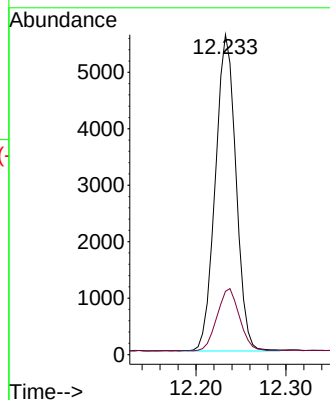
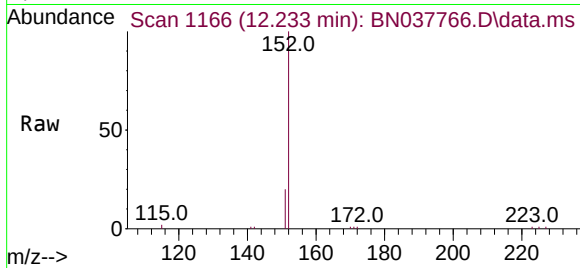




#11
2-Methylnaphthalene-d10
Concen: 0.290 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

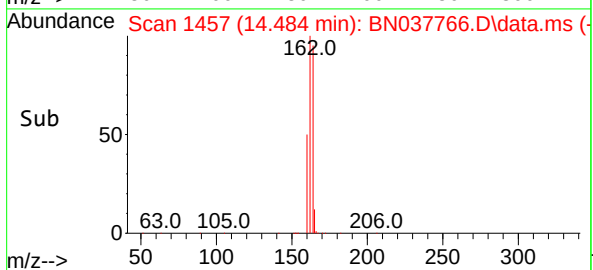
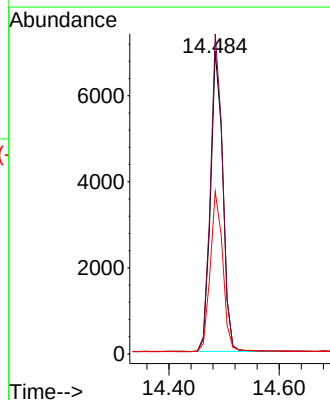
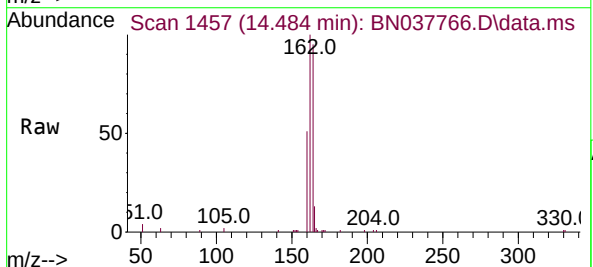
Instrument :
BNA_N
ClientSampleId :
RE126D2-20250909

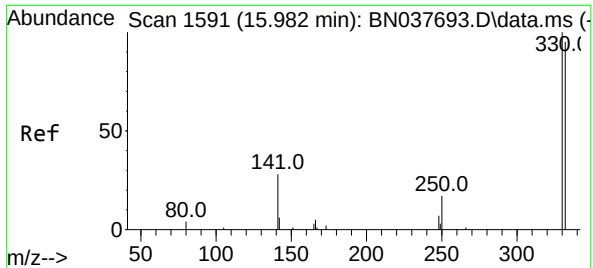
Tgt Ion:152 Resp: 8958
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

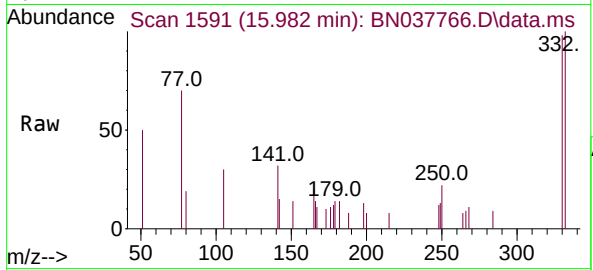
Tgt Ion:164 Resp: 10732
Ion Ratio Lower Upper
164 100
162 105.6 83.1 124.7
160 53.6 44.3 66.5



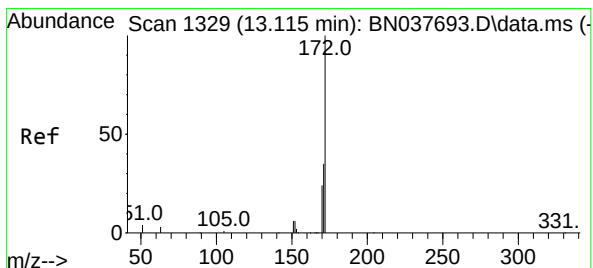
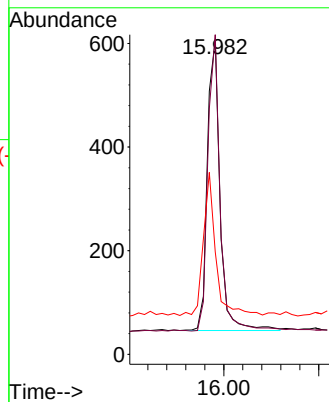
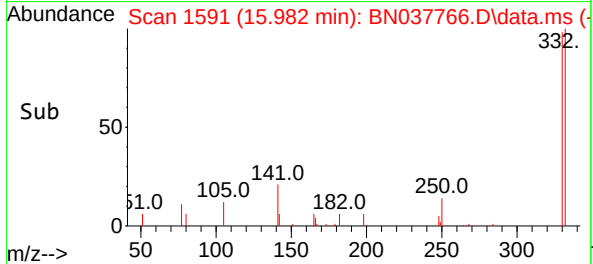


#14
2,4,6-Tribromophenol
Concen: 0.370 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

Instrument :
BNA_N
ClientSampleId :
RE126D2-20250909

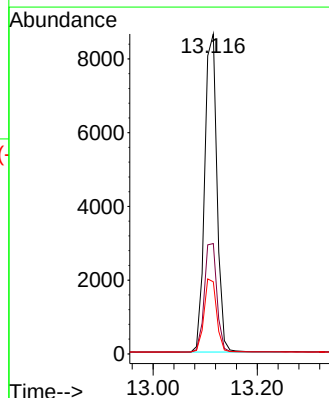
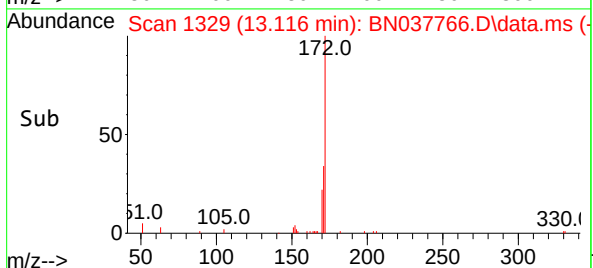
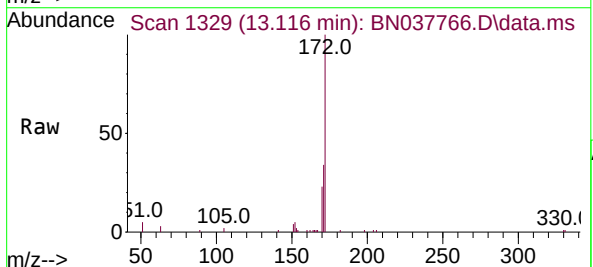


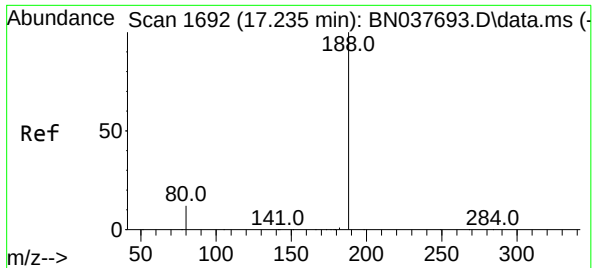
Tgt Ion:330 Resp: 1036
Ion Ratio Lower Upper
330 100
332 98.0 75.3 112.9
141 47.9 35.0 52.4



#15
2-Fluorobiphenyl
Concen: 0.317 ng
RT: 13.116 min Scan# 1329
Delta R.T. 0.000 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

Tgt Ion:172 Resp: 14218
Ion Ratio Lower Upper
172 100
171 34.5 28.6 43.0
170 22.5 19.8 29.8

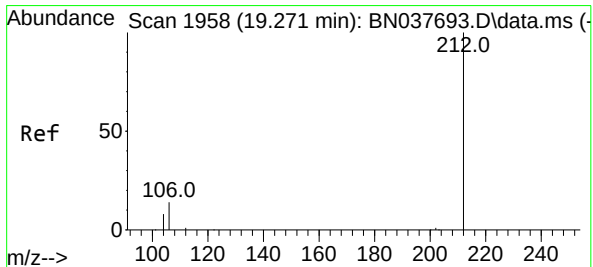
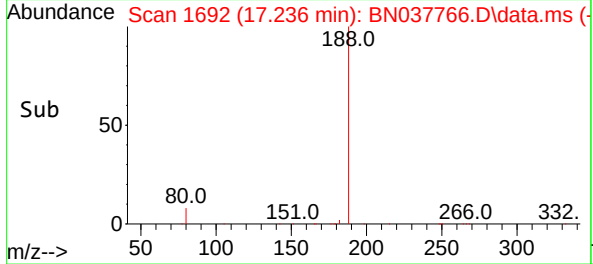
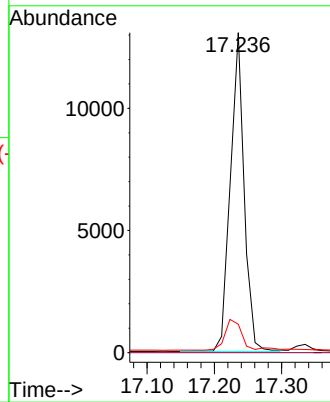
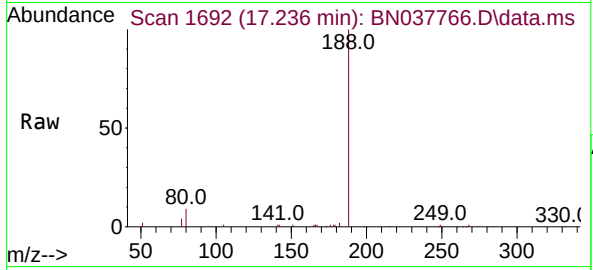




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.236 min Scan# 1692
Delta R.T. 0.000 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

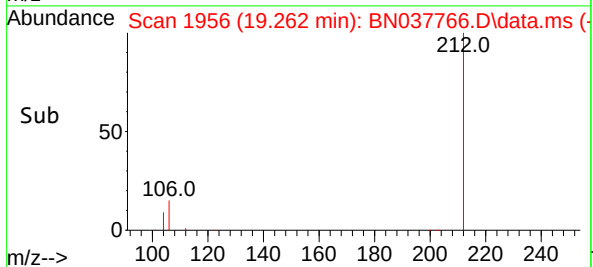
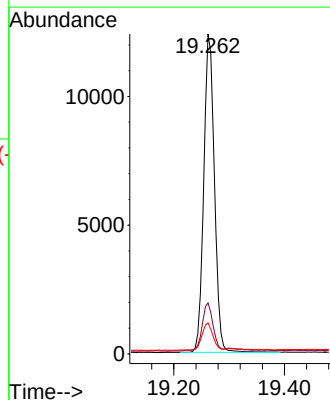
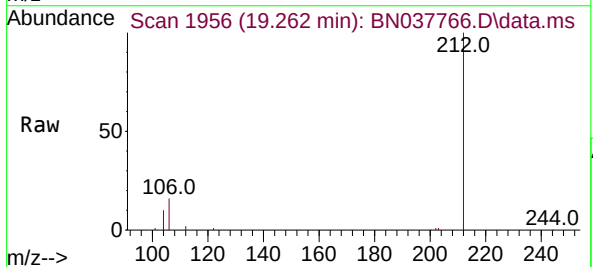
Instrument :
BNA_N
ClientSampleId :
RE126D2-20250909

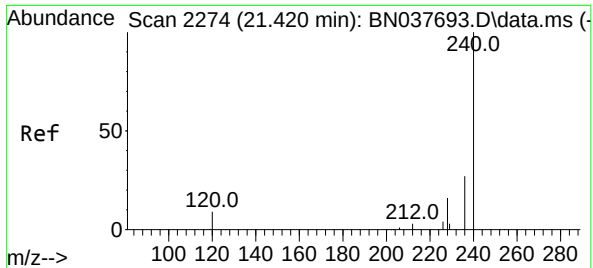
Tgt Ion:188 Resp: 18615
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.9 10.6 15.8#



#27
Fluoranthene-d10
Concen: 0.351 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

Tgt Ion:212 Resp: 16425
Ion Ratio Lower Upper
212 100
106 15.7 12.2 18.2
104 8.8 6.9 10.3

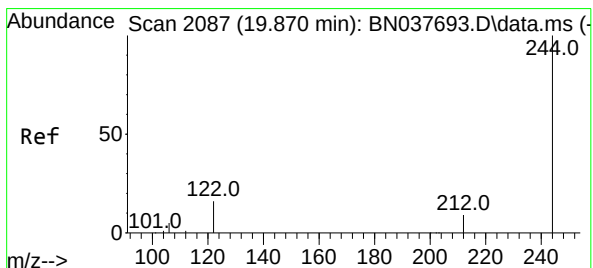
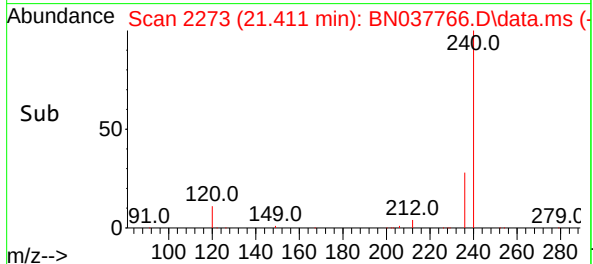
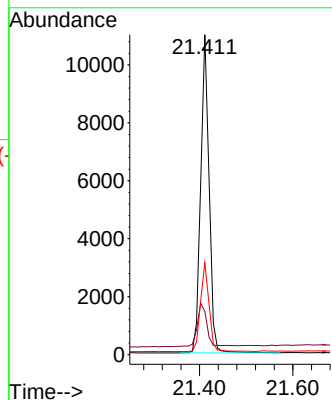
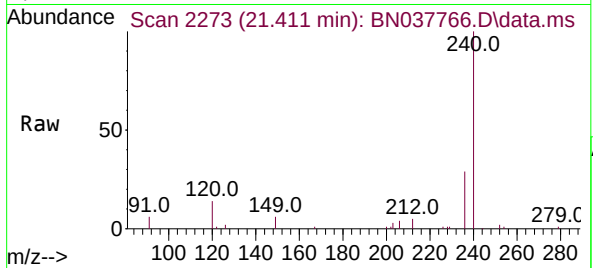




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

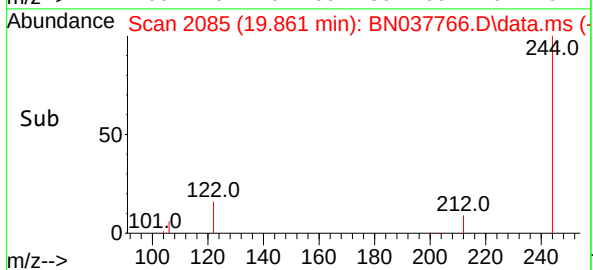
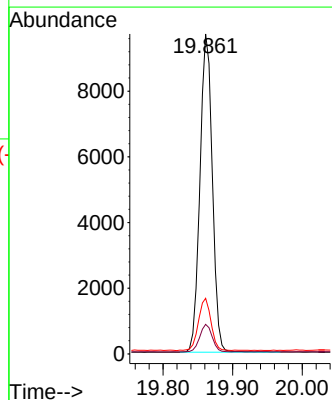
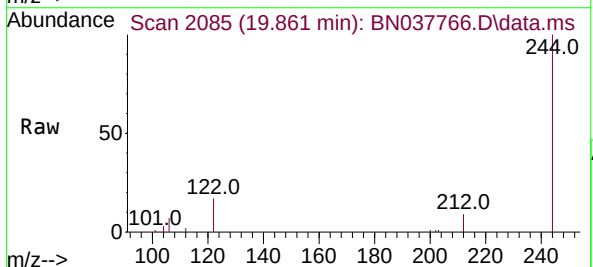
Instrument :
BNA_N
ClientSampleId :
RE126D2-20250909

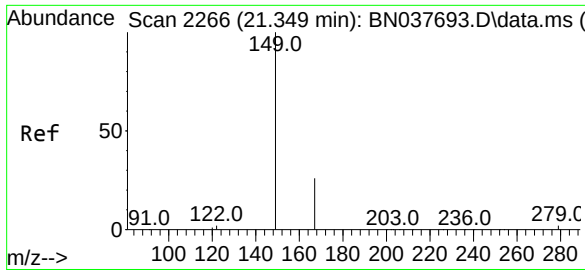
Tgt Ion:240 Resp: 13639
Ion Ratio Lower Upper
240 100
120 13.5 9.2 13.8
236 28.7 22.6 33.8



#31
Terphenyl-d14
Concen: 0.432 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

Tgt Ion:244 Resp: 11960
Ion Ratio Lower Upper
244 100
212 9.2 7.5 11.3
122 17.4 13.2 19.8

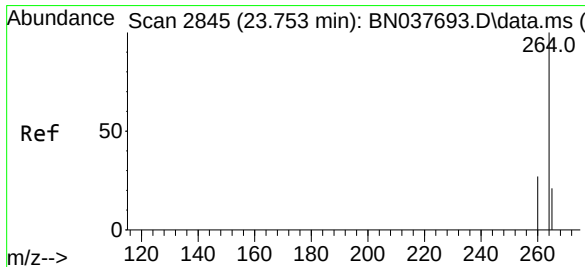
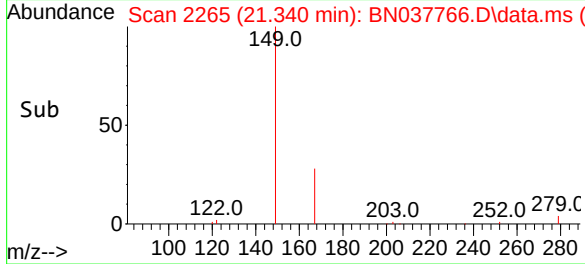
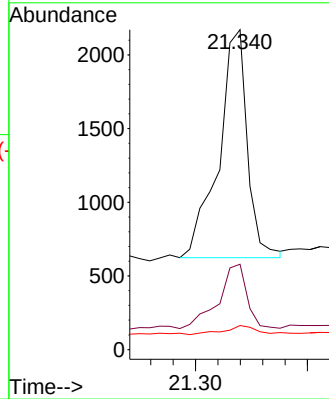
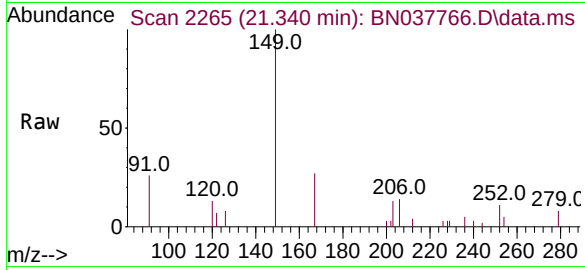




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.195 ng
RT: 21.340 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

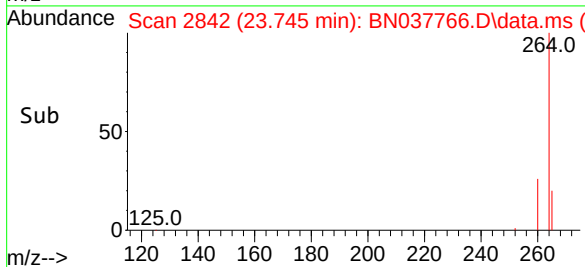
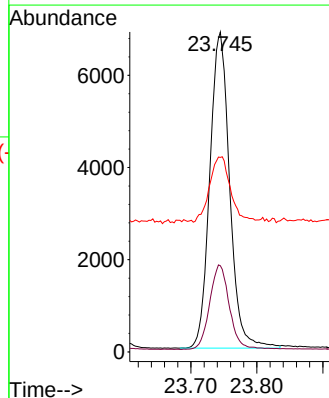
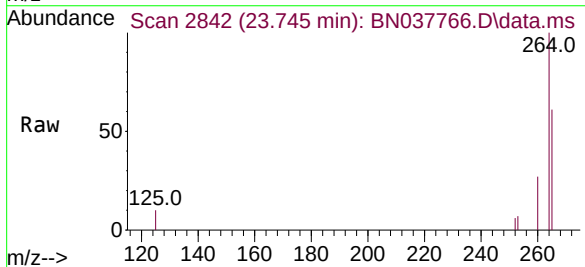
Instrument :
BNA_N
ClientSampleId :
RE126D2-20250909

Tgt Ion:149 Resp: 2756
Ion Ratio Lower Upper
149 100
167 28.0 20.8 31.2
279 4.9 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.745 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

Tgt Ion:264 Resp: 14319
Ion Ratio Lower Upper
264 100
260 26.9 21.8 32.8
265 60.8 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE126D3-20250909	SDG No.:	Q3095
Lab Sample ID:	Q3095-19	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
BN037767.D	1	09/15/25 10:15	09/18/25 07:35	PB169692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.43		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	0.37		55 - 111		93%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		95%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		120%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8360	7.833				
1146-65-2	Naphthalene-d8	22900	10.637				
15067-26-2	Acenaphthene-d10	10200	14.484				
1517-22-2	Phenanthrene-d10	17500	17.236				
1719-03-5	Chrysene-d12	14100	21.411				
1520-96-3	Perylene-d12	14400	23.745				

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\BN091725\
 Data File : BN037767.D
 Acq On : 18 Sep 2025 07:35
 Operator : RC/JU
 Sample : Q3095-19
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE126D3-20250909

Quant Time: Sep 18 07:59:45 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

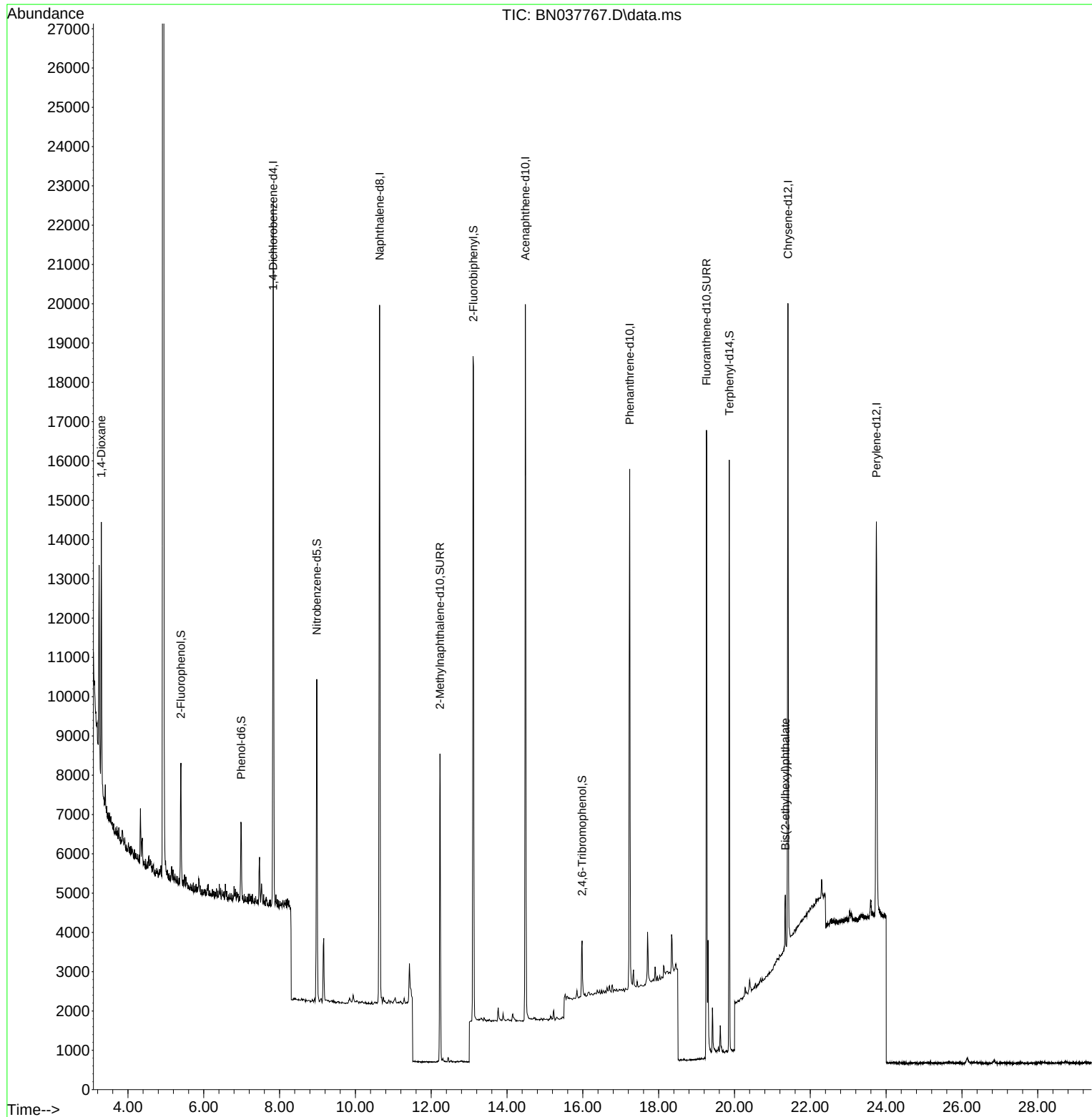
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	8360	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	22865	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	10200	0.400	ng	-0.01
19) Phenanthrene-d10	17.236	188	17532	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	14129	0.400	ng	# 0.00
35) Perylene-d12	23.745	264	14395	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2560	0.133	ng	0.00
5) Phenol-d6	6.988	99	1878	0.075	ng	0.00
8) Nitrobenzene-d5	8.982	82	6211	0.371	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	10276	0.339	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	987	0.371	ng	0.00
15) 2-Fluorobiphenyl	13.116	172	16260	0.381	ng	0.00
27) Fluoranthene-d10	19.262	212	18084	0.411	ng	0.00
31) Terphenyl-d14	19.861	244	13760	0.480	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	3731	0.428	ng	# 93
34) Bis(2-ethylhexyl)phtha...	21.340	149	1409	0.096	ng	99

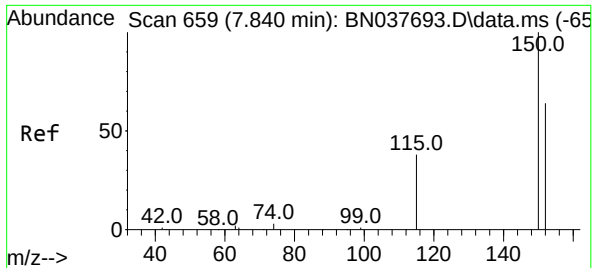
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037767.D
Acq On : 18 Sep 2025 07:35
Operator : RC/JU
Sample : Q3095-19
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE126D3-20250909

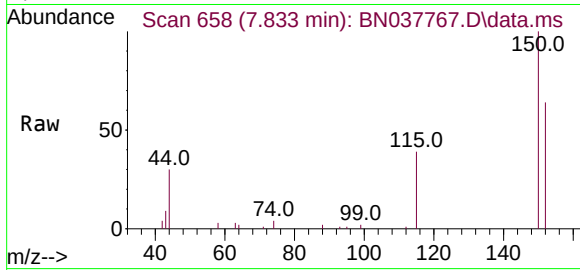
Quant Time: Sep 18 07:59:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



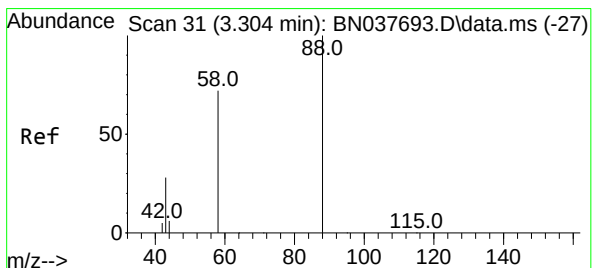
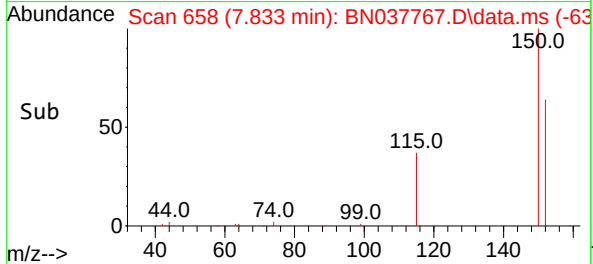
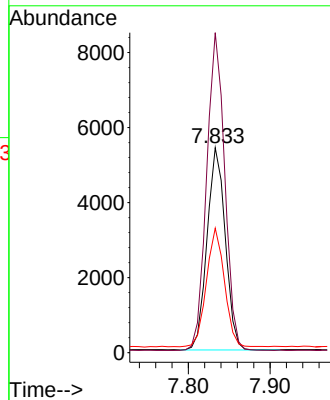


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

Instrument :
BNA_N
ClientSampleId :
RE126D3-20250909

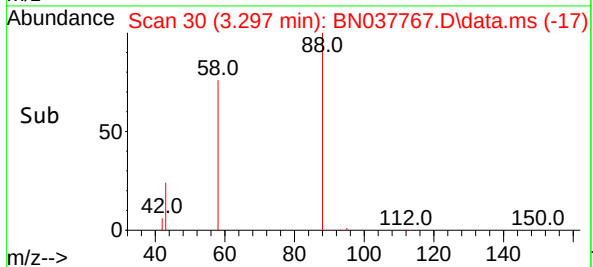
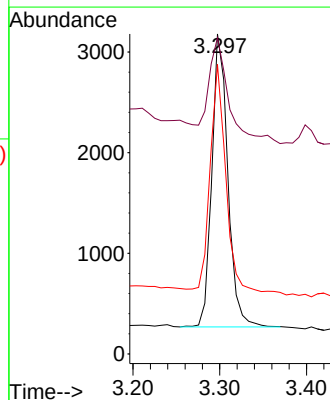
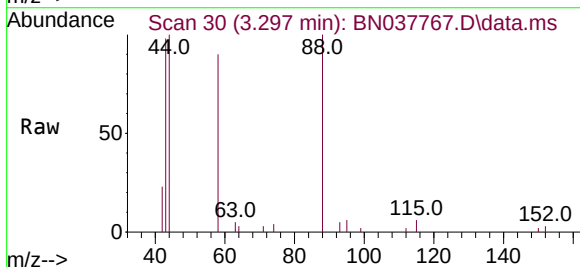


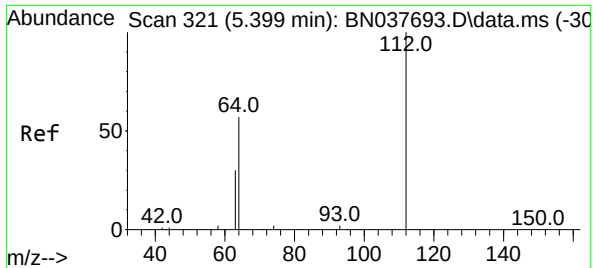
Tgt Ion: 152 Resp: 8360
Ion Ratio Lower Upper
152 100
150 156.2 124.5 186.7
115 60.8 49.2 73.8



#2
1,4-Dioxane
Concen: 0.428 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

Tgt Ion: 88 Resp: 3731
Ion Ratio Lower Upper
88 100
43 45.5 26.8 40.2#
58 76.1 61.9 92.9

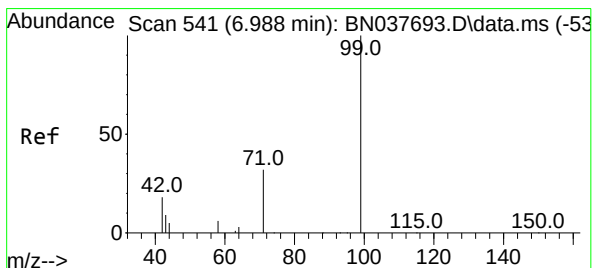
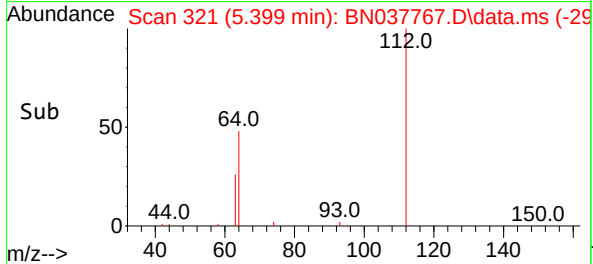
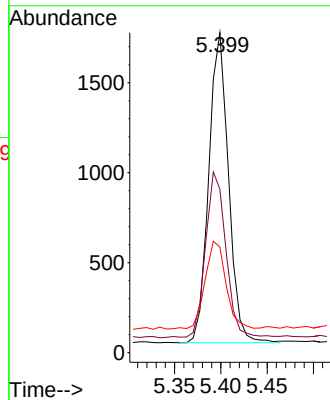
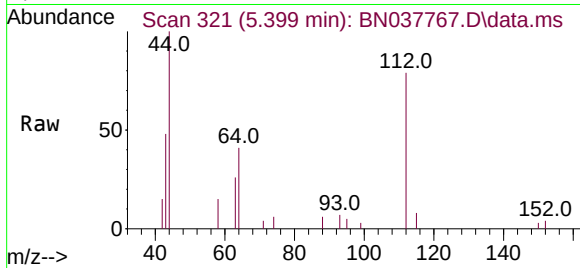




#4
2-Fluorophenol
Concen: 0.133 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

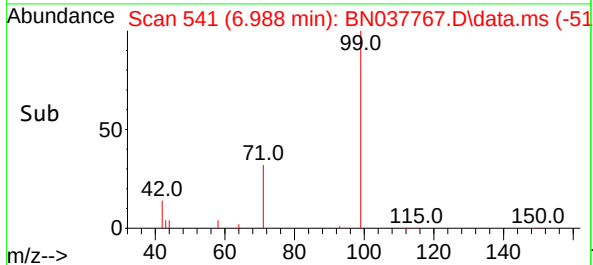
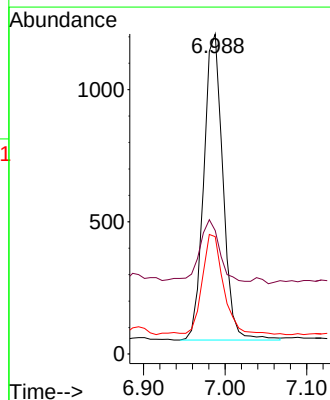
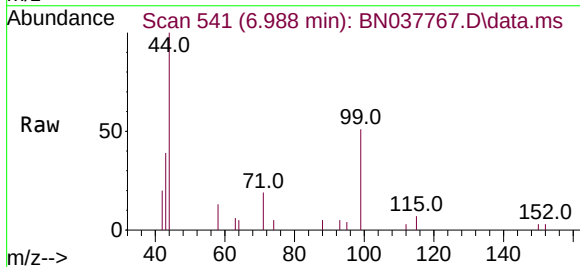
Instrument :
BNA_N
ClientSampleId :
RE126D3-20250909

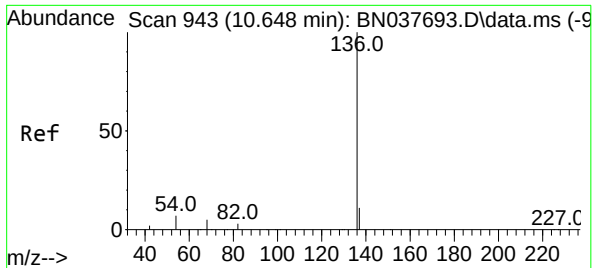
Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.7	44.9	67.3
63	29.7	24.7	37.1



#5
Phenol-d6
Concen: 0.075 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.6	16.6	24.8
71	37.8	26.7	40.1

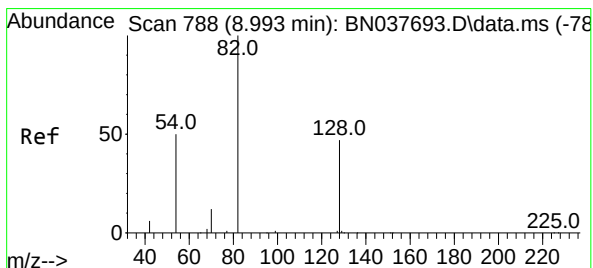
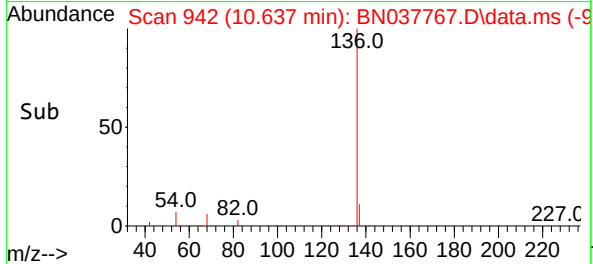
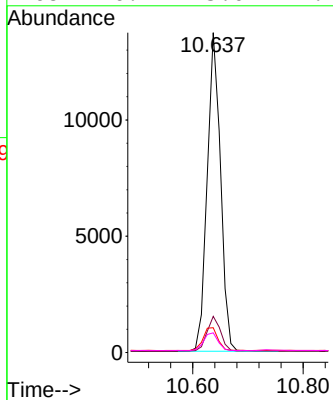
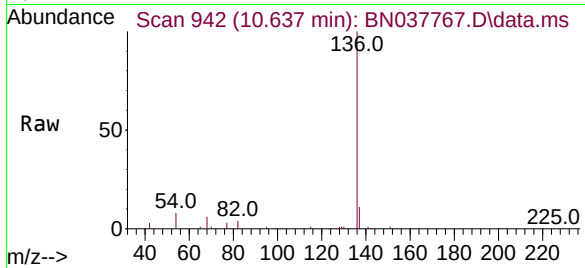




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

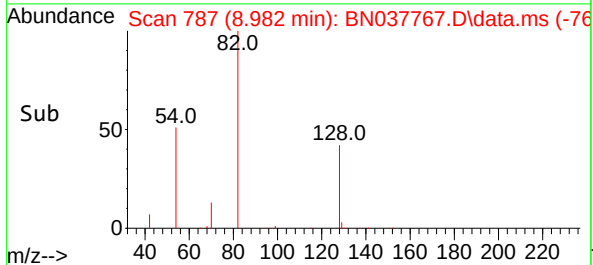
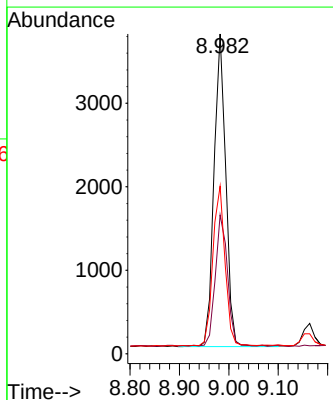
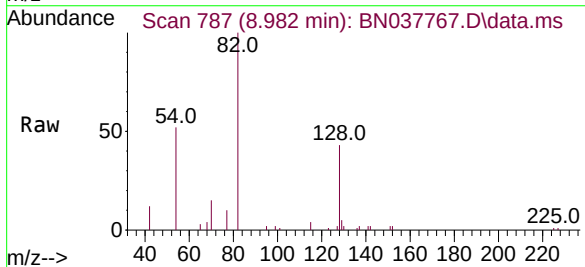
Instrument :
BNA_N
ClientSampleId :
RE126D3-20250909

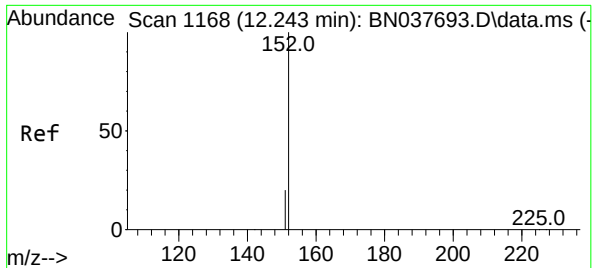
Tgt Ion:	136	Resp:	22865
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.1	13.7
54	7.7	6.3	9.5
68	6.2	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.371 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

Tgt Ion:	82	Resp:	6211
Ion Ratio	Lower	Upper	
82	100		
128	43.4	38.3	57.5
54	52.4	41.4	62.2

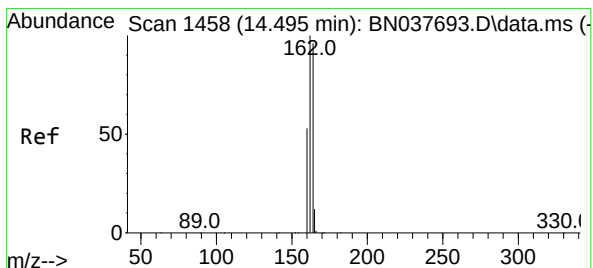
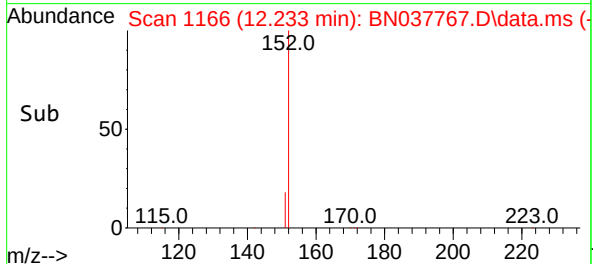
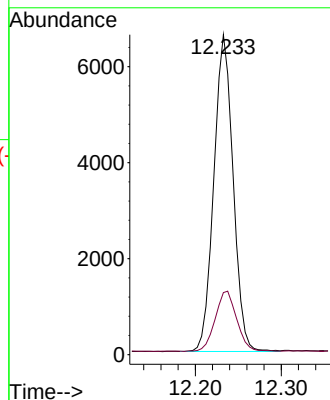
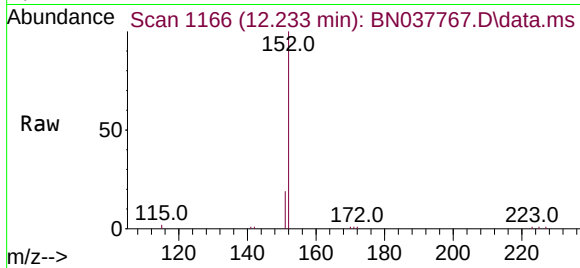




#11
2-Methylnaphthalene-d10
Concen: 0.339 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

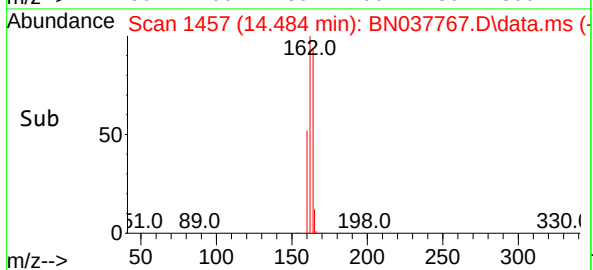
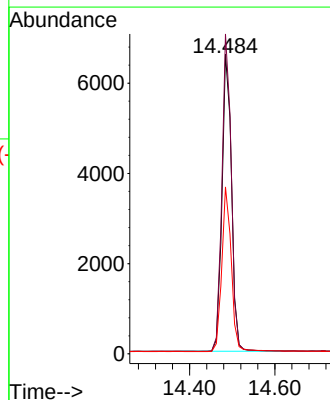
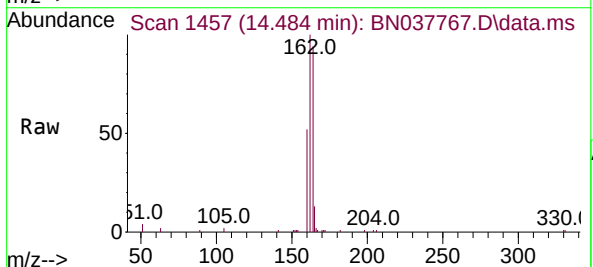
Instrument :
BNA_N
ClientSampleId :
RE126D3-20250909

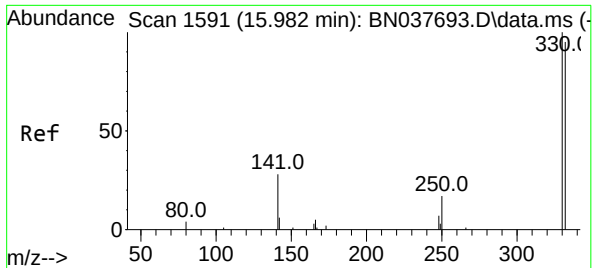
Tgt Ion:152 Resp: 10276
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

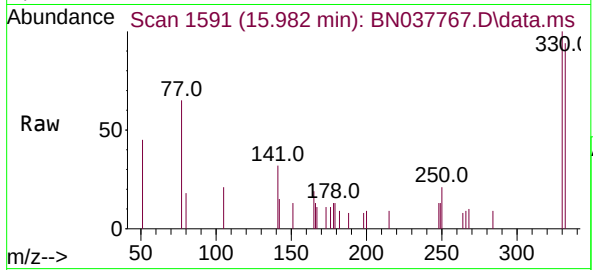
Tgt Ion:164 Resp: 10200
Ion Ratio Lower Upper
164 100
162 106.9 83.1 124.7
160 55.8 44.3 66.5



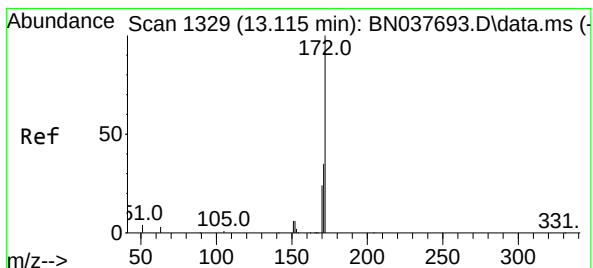
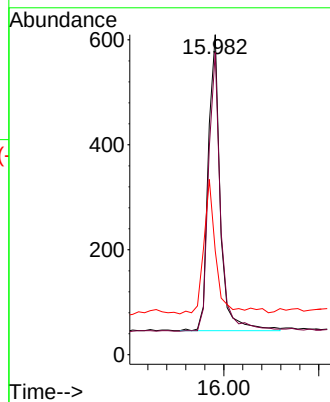
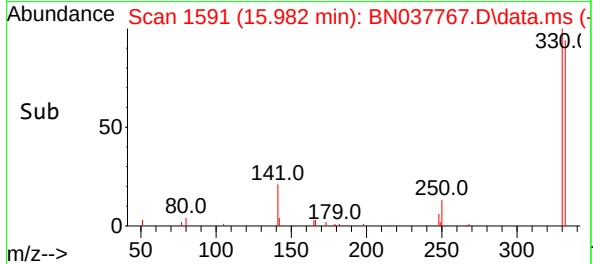


#14
2,4,6-Tribromophenol
Concen: 0.371 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

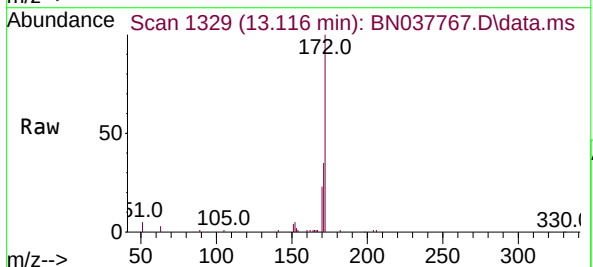
Instrument :
BNA_N
ClientSampleId :
RE126D3-20250909



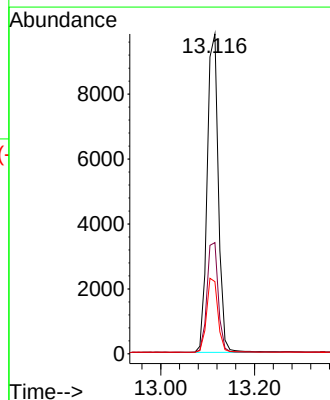
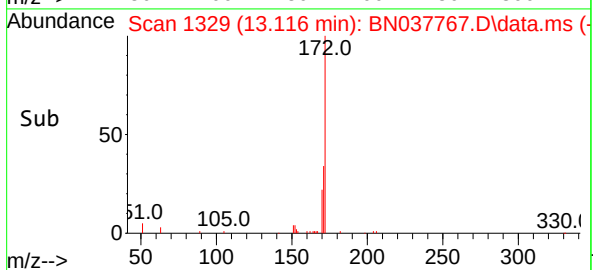
Tgt Ion: 330 Resp: 987
Ion Ratio Lower Upper
330 100
332 95.0 75.3 112.9
141 44.8 35.0 52.4

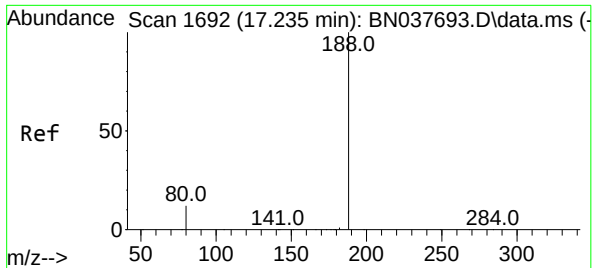


#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 13.116 min Scan# 1329
Delta R.T. 0.000 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35



Tgt Ion: 172 Resp: 16260
Ion Ratio Lower Upper
172 100
171 34.8 28.6 43.0
170 22.6 19.8 29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.236 min Scan# 1692

Delta R.T. 0.000 min

Lab File: BN037767.D

Acq: 18 Sep 2025 07:35

Instrument :

BNA_N

ClientSampleId :

RE126D3-20250909

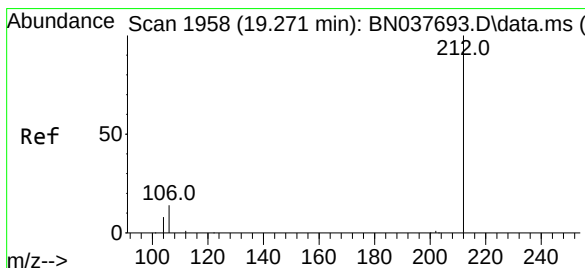
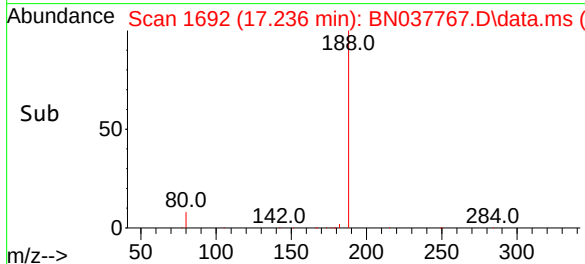
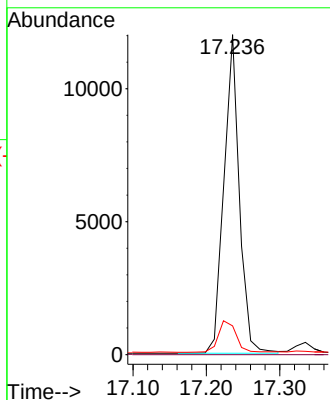
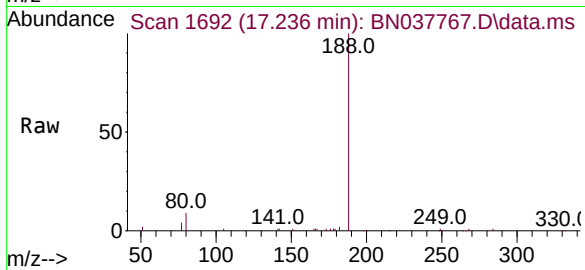
Tgt Ion:188 Resp: 17532

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.0 10.6 15.8#



#27

Fluoranthene-d10

Concen: 0.411 ng

RT: 19.262 min Scan# 1956

Delta R.T. -0.009 min

Lab File: BN037767.D

Acq: 18 Sep 2025 07:35

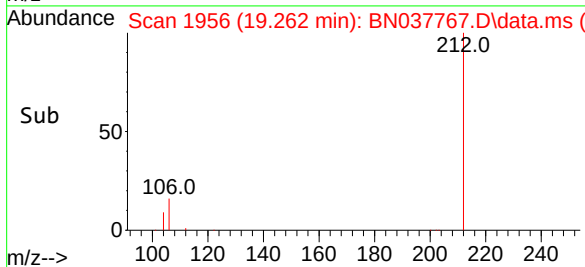
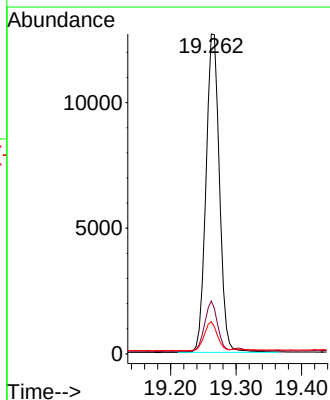
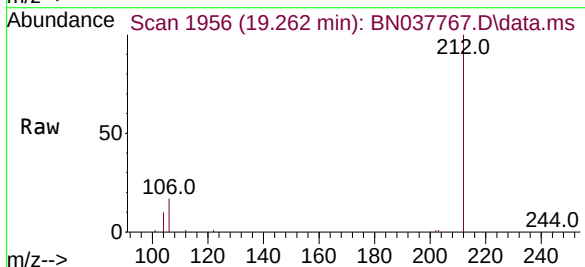
Tgt Ion:212 Resp: 18084

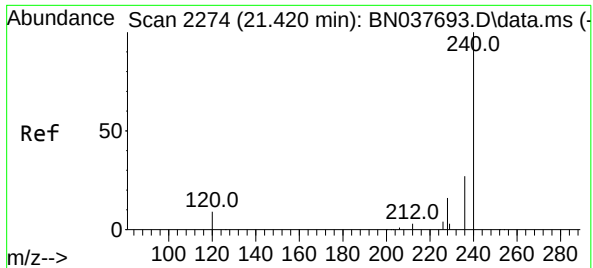
Ion Ratio Lower Upper

212 100

106 15.1 12.2 18.2

104 8.7 6.9 10.3

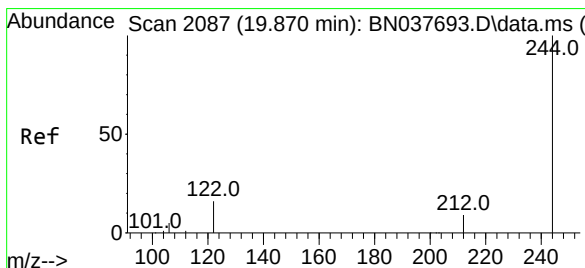
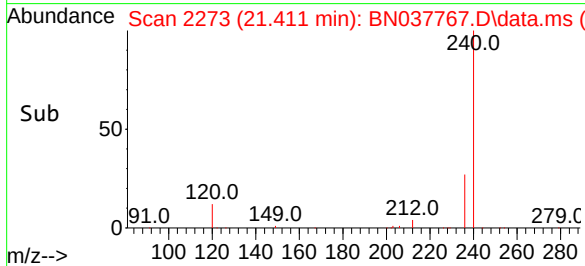
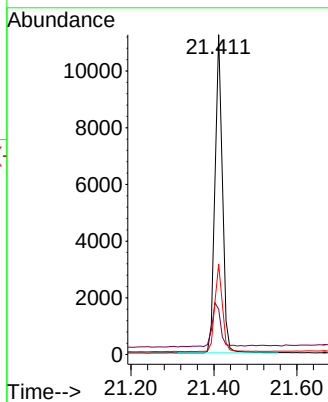
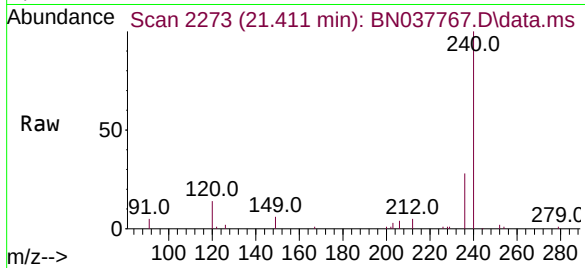




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

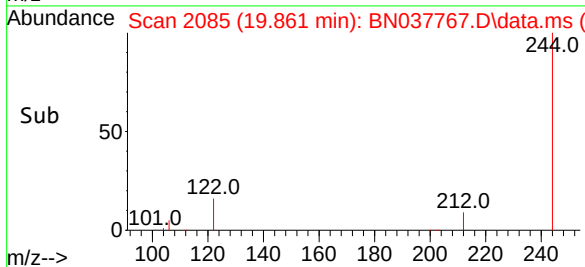
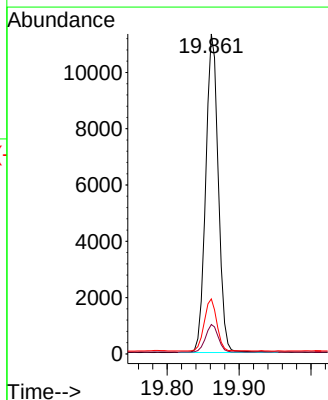
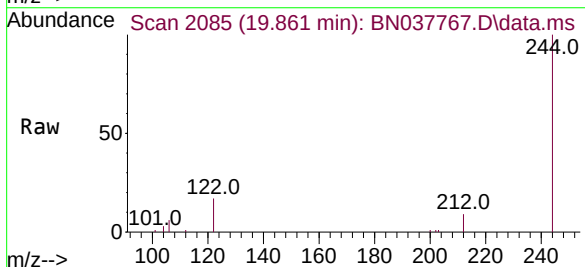
Instrument :
BNA_N
ClientSampleId :
RE126D3-20250909

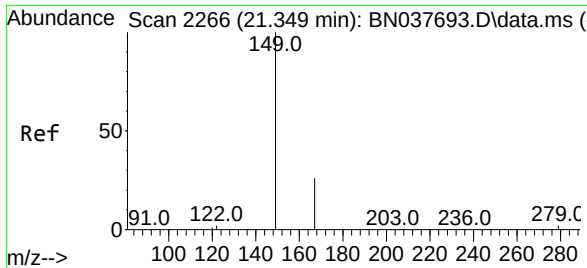
Tgt Ion:240 Resp: 14129
Ion Ratio Lower Upper
240 100
120 14.2 9.2 13.8#
236 28.2 22.6 33.8



#31
Terphenyl-d14
Concen: 0.480 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

Tgt Ion:244 Resp: 13760
Ion Ratio Lower Upper
244 100
212 9.2 7.5 11.3
122 17.2 13.2 19.8

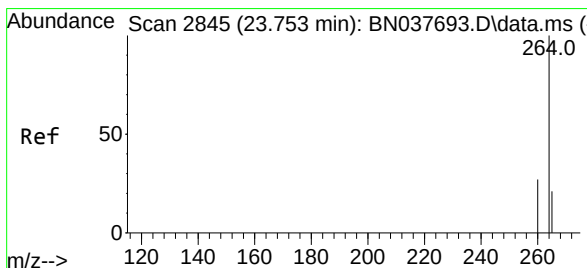
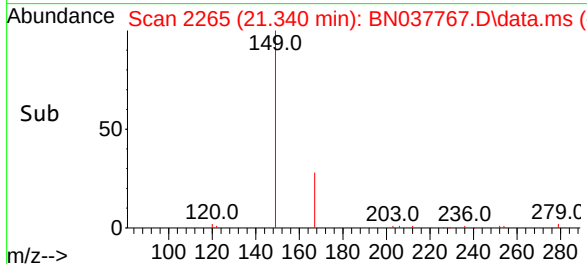
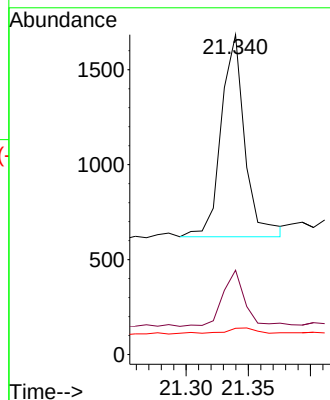
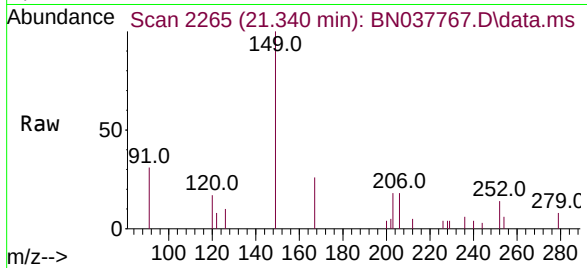




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.096 ng
RT: 21.340 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

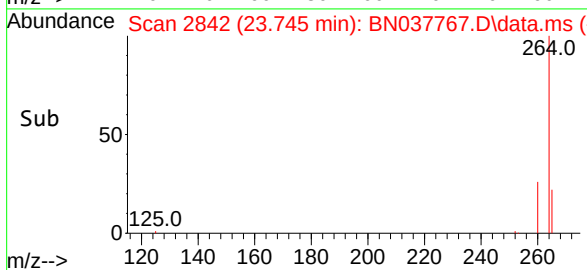
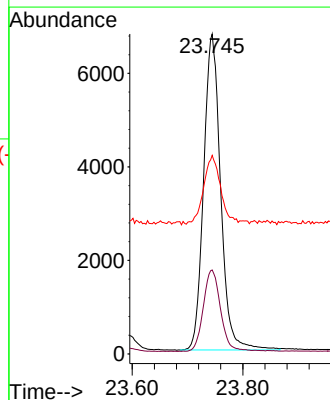
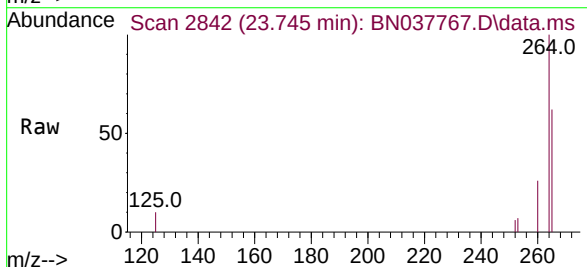
Instrument :
BNA_N
ClientSampleId :
RE126D3-20250909

Tgt Ion:149 Resp: 1409
Ion Ratio Lower Upper
149 100
167 26.6 20.8 31.2
279 4.6 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.745 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

Tgt Ion:264 Resp: 14395
Ion Ratio Lower Upper
264 100
260 26.2 21.8 32.8
265 62.0 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	MW178S-20250910	SDG No.:	Q3095
Lab Sample ID:	Q3095-20	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
BN037768.D	1	09/15/25 10:15	09/18/25 08:11	PB169692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.11	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.26		30 - 150		64%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.30		30 - 150		76%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		71%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.28		53 - 106		71%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.29		58 - 132		74%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7450	7.833				
1146-65-2	Naphthalene-d8	20000	10.637				
15067-26-2	Acenaphthene-d10	9140	14.484				
1517-22-2	Phenanthrene-d10	17500	17.235				
1719-03-5	Chrysene-d12	16200	21.411				
1520-96-3	Perylene-d12	15600	23.744				

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\BN091725\
 Data File : BN037768.D
 Acq On : 18 Sep 2025 08:11
 Operator : RC/JU
 Sample : Q3095-20
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW178S-20250910

Quant Time: Sep 18 08:46:04 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

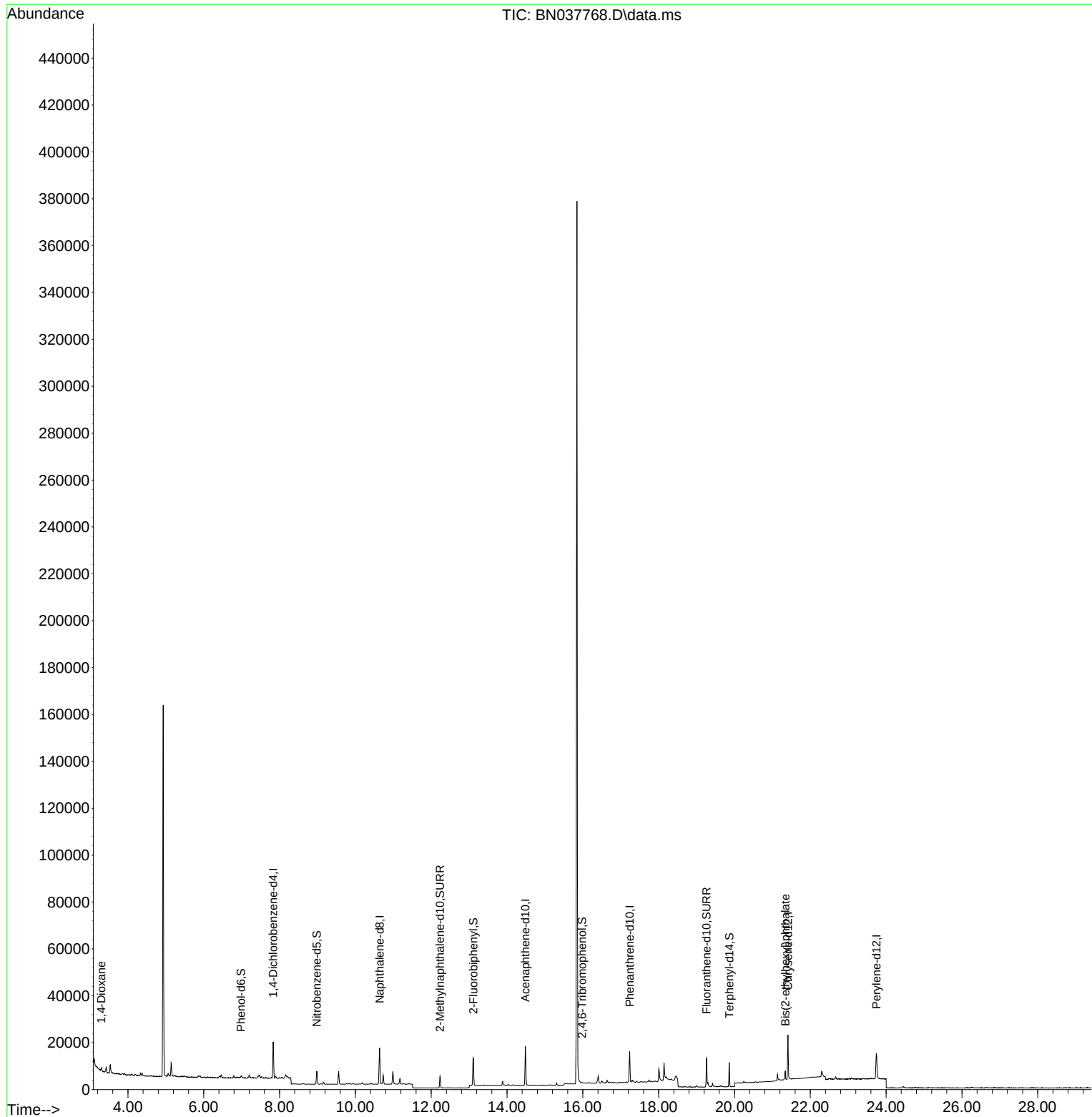
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7451	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	19960	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	9139	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	17489	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	16160	0.400	ng	0.00
35) Perylene-d12	23.744	264	15607	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	323	0.019	ng	0.00
5) Phenol-d6	6.980	99	674	0.030	ng	0.00
8) Nitrobenzene-d5	8.982	82	4143	0.284	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	6791	0.257	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	68	0.029	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	10809	0.283	ng	0.00
27) Fluoranthene-d10	19.262	212	13318	0.303	ng	0.00
31) Terphenyl-d14	19.861	244	9643	0.294	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	855	0.110	ng	# 81
34) Bis(2-ethylhexyl)phtha...	21.340	149	3845	0.230	ng	100

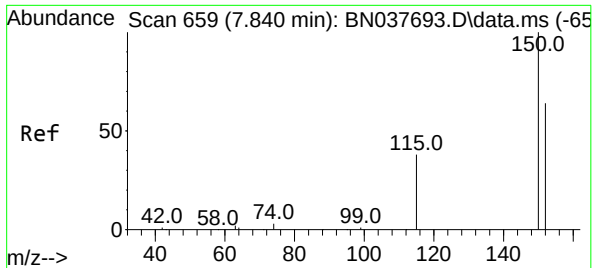
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037768.D
Acq On : 18 Sep 2025 08:11
Operator : RC/JU
Sample : Q3095-20
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW178S-20250910

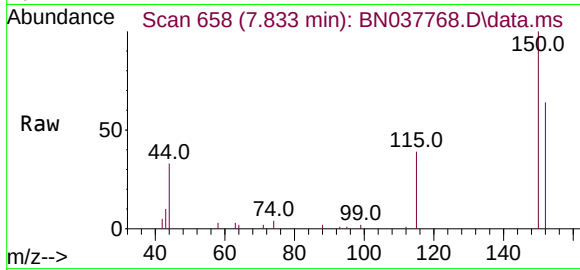
Quant Time: Sep 18 08:46:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



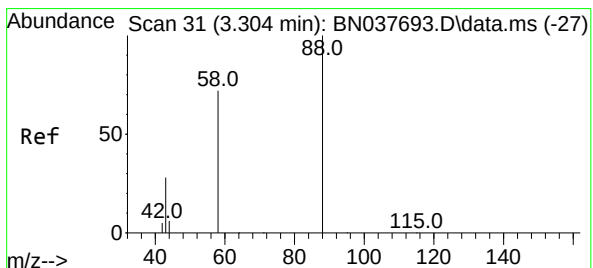
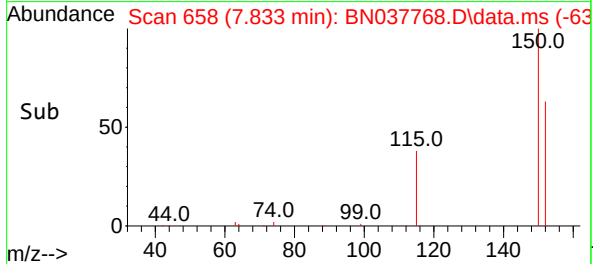
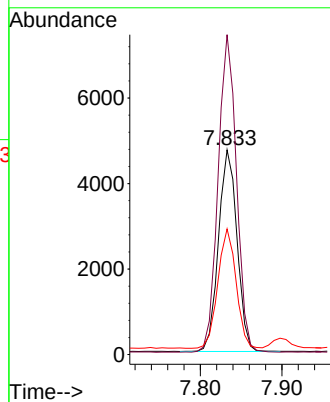


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

Instrument :
BNA_N
ClientSampleId :
MW178S-20250910

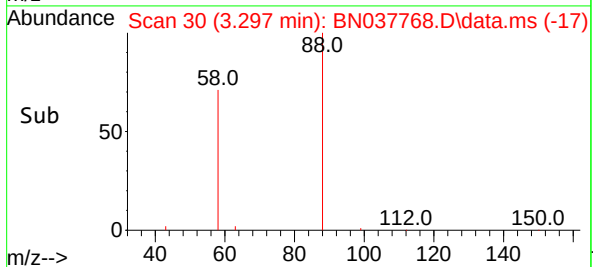
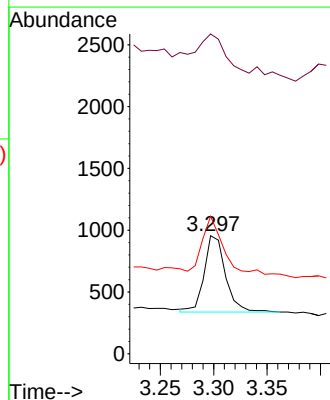
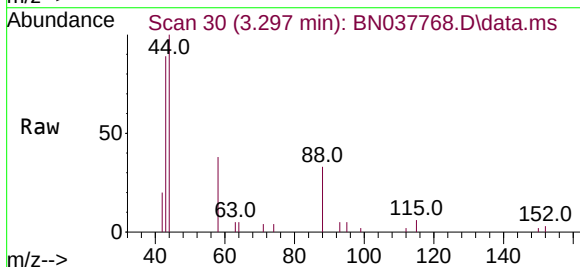


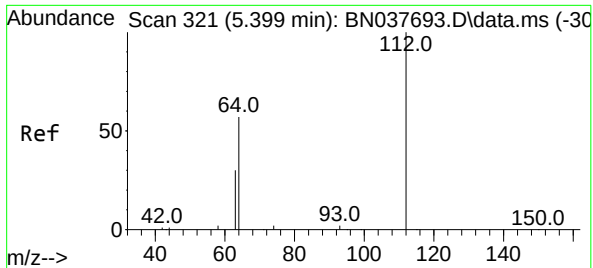
Tgt Ion:152 Resp: 7451
Ion Ratio Lower Upper
152 100
150 156.3 124.5 186.7
115 61.4 49.2 73.8



#2
1,4-Dioxane
Concen: 0.110 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

Tgt Ion: 88 Resp: 855
Ion Ratio Lower Upper
88 100
43 62.8 26.8 40.2#
58 82.0 61.9 92.9

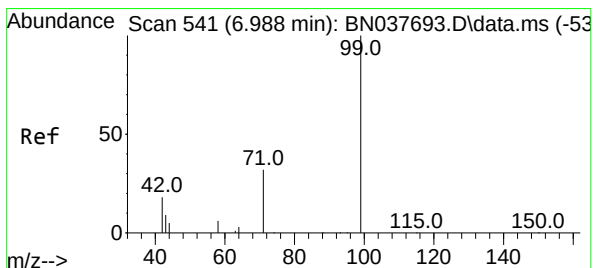
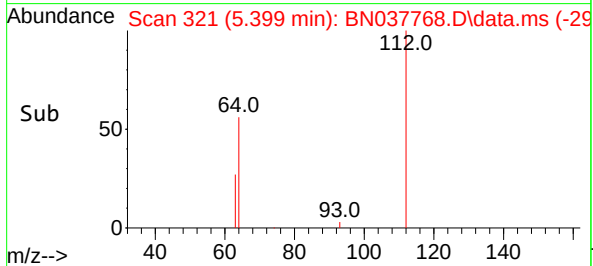
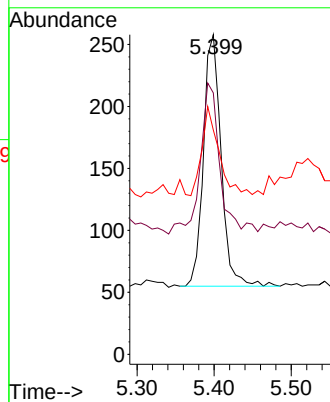
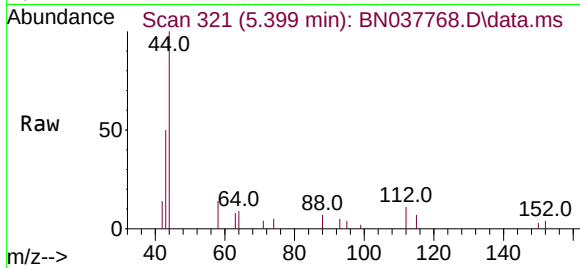




#4
2-Fluorophenol
Concen: 0.019 ng
RT: 5.399 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

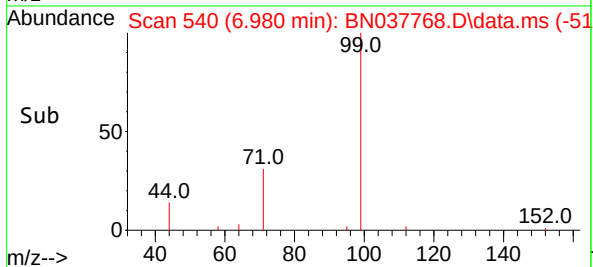
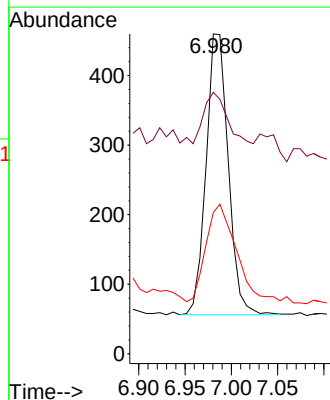
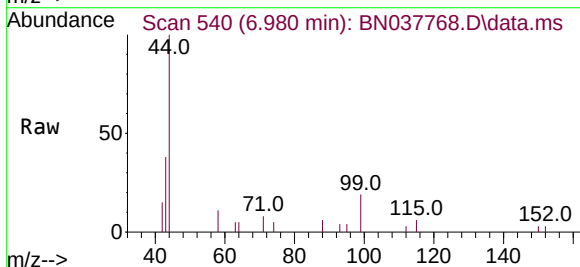
Instrument :
BNA_N
ClientSampleId :
MW178S-20250910

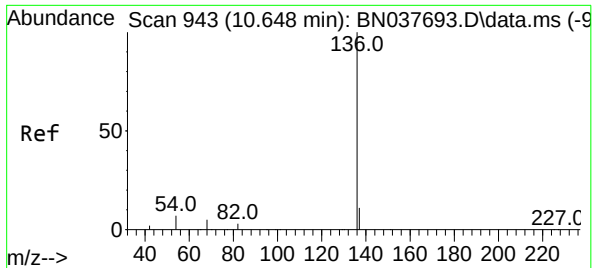
Tgt Ion:112 Resp: 323
Ion Ratio Lower Upper
112 100
64 67.8 44.9 67.3#
63 34.4 24.7 37.1



#5
Phenol-d6
Concen: 0.030 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

Tgt Ion: 99 Resp: 674
Ion Ratio Lower Upper
99 100
42 23.4 16.6 24.8
71 50.1 26.7 40.1#

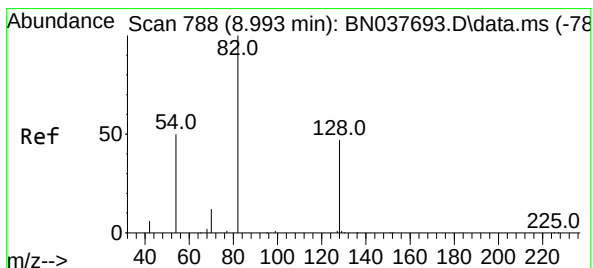
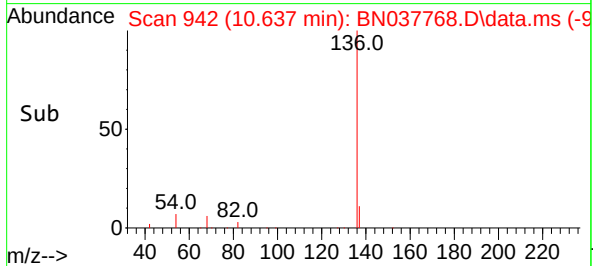
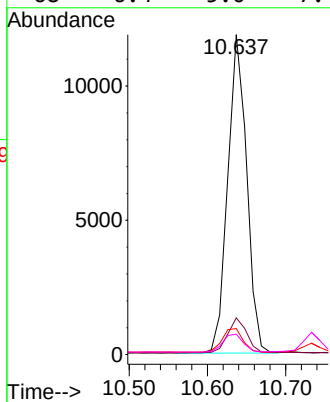
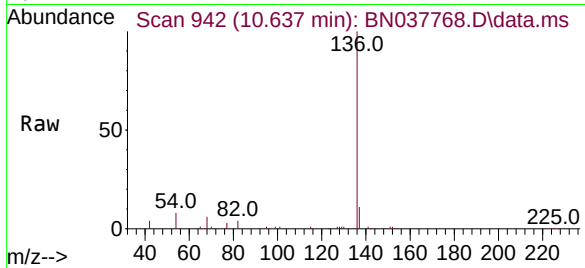




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

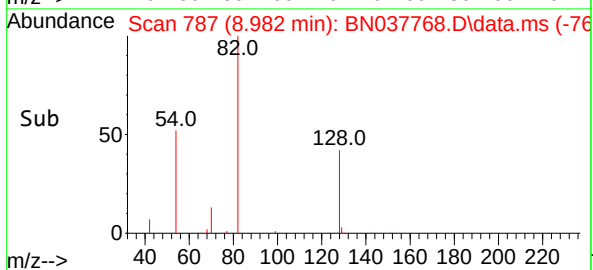
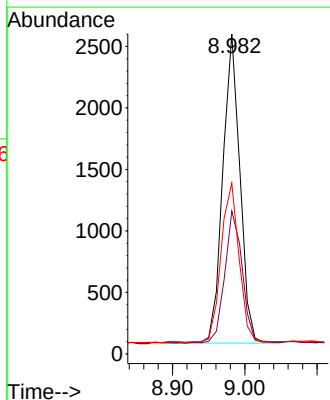
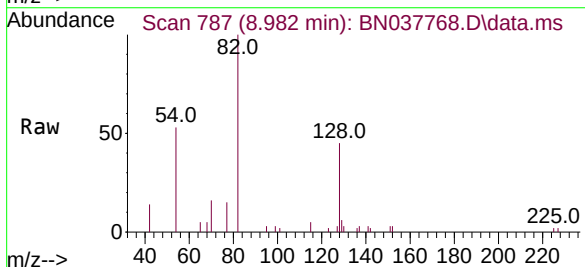
Instrument :
BNA_N
ClientSampleId :
MW178S-20250910

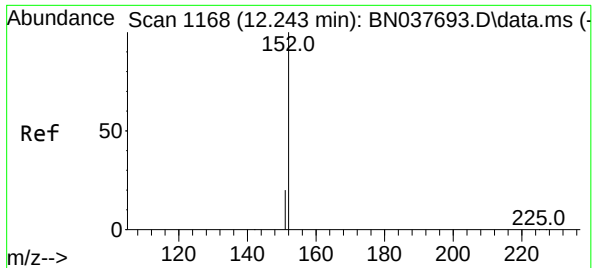
Tgt Ion:	136	Resp:	19960
Ion Ratio	Lower	Upper	
136	100		
137	11.5	9.1	13.7
54	8.1	6.3	9.5
68	6.4	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.284 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

Tgt Ion:	82	Resp:	4143
Ion Ratio	Lower	Upper	
82	100		
128	44.6	38.3	57.5
54	53.3	41.4	62.2

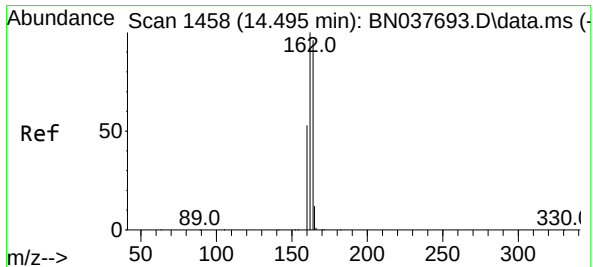
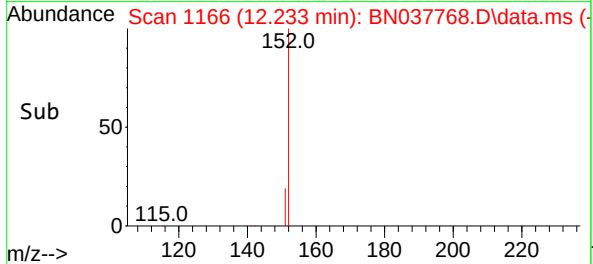
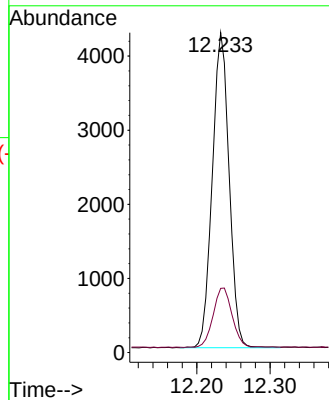
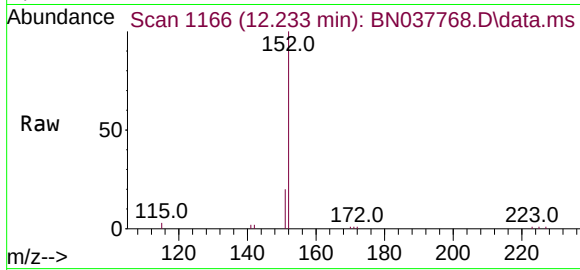




#11
2-Methylnaphthalene-d10
Concen: 0.257 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

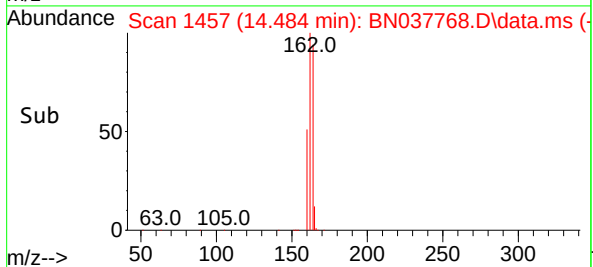
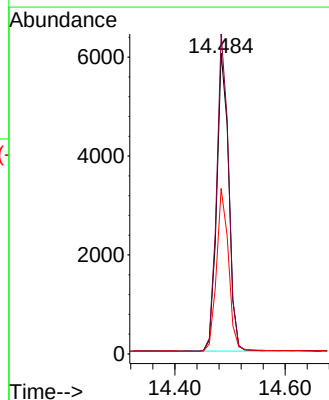
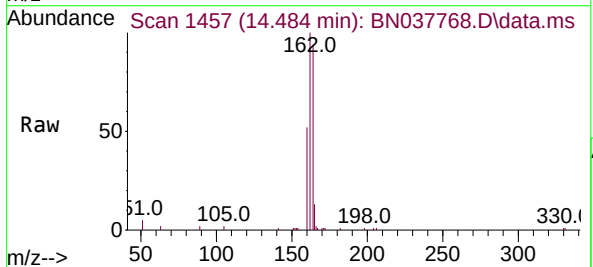
Instrument :
BNA_N
ClientSampleId :
MW178S-20250910

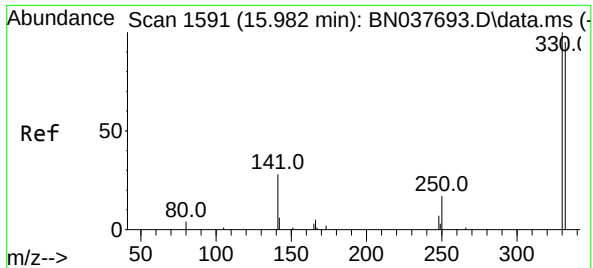
Tgt Ion:152 Resp: 6791
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

Tgt Ion:164 Resp: 9139
Ion Ratio Lower Upper
164 100
162 106.4 83.1 124.7
160 55.0 44.3 66.5

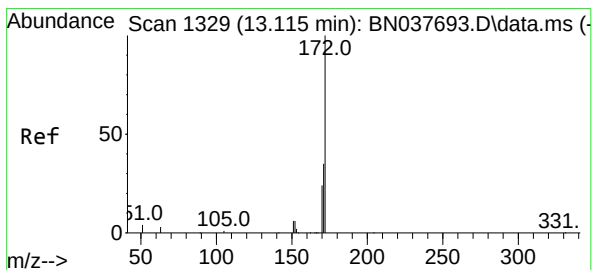
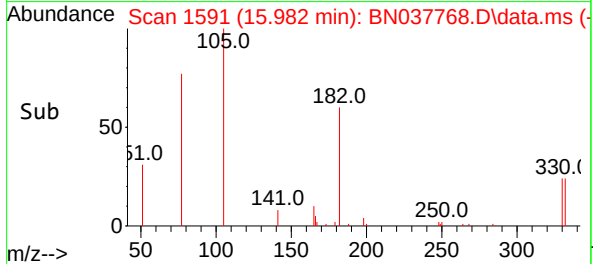
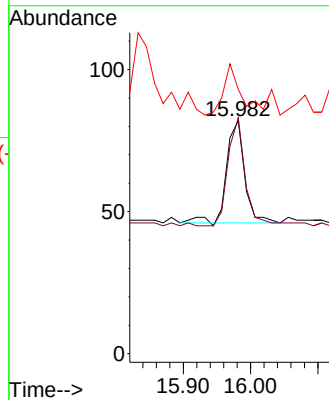
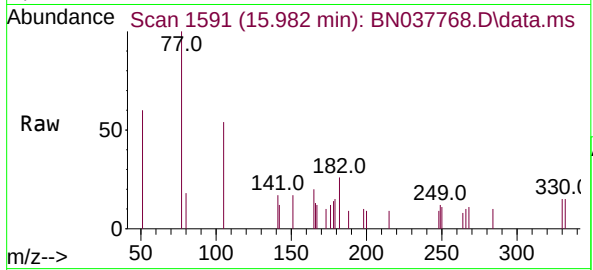




#14
2,4,6-Tribromophenol
Concen: 0.029 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

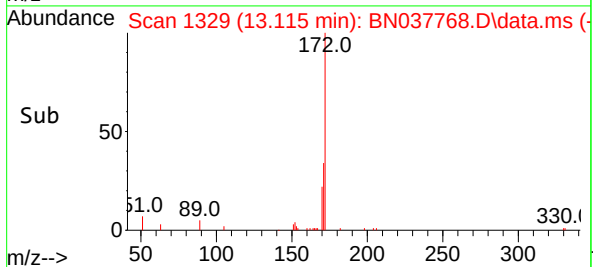
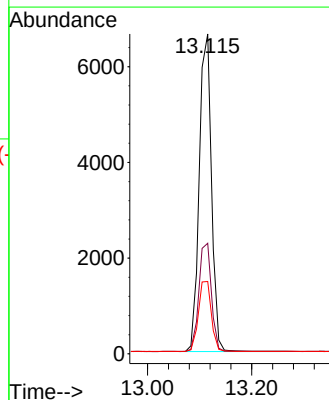
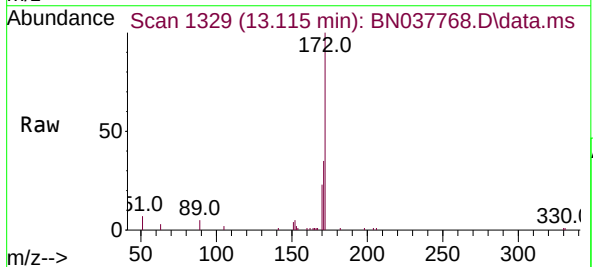
Instrument :
BNA_N
ClientSampleId :
MW178S-20250910

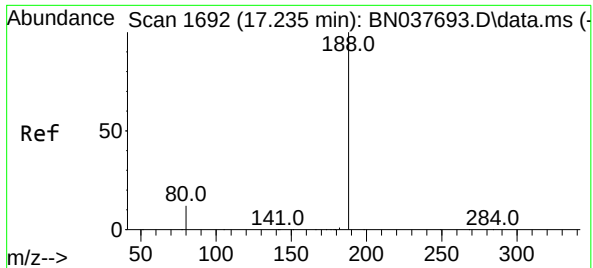
Tgt Ion	330	Ratio	100	Lower	Upper
330	100				
332	102.9		75.3	112.9	
141	51.5		35.0	52.4	



#15
2-Fluorobiphenyl
Concen: 0.283 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

Tgt Ion	172	Ratio	100	Lower	Upper
172	100				
171	34.6		28.6	43.0	
170	22.6		19.8	29.8	





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037768.D

Acq: 18 Sep 2025 08:11

Instrument :

BNA_N

ClientSampleId :

MW178S-20250910

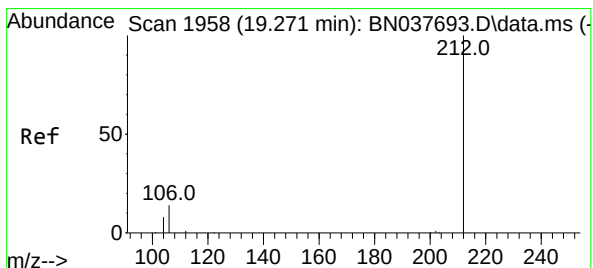
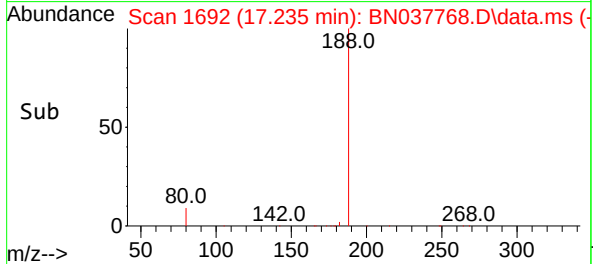
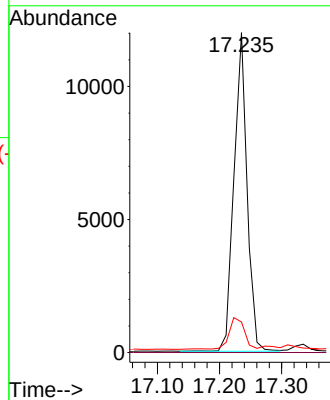
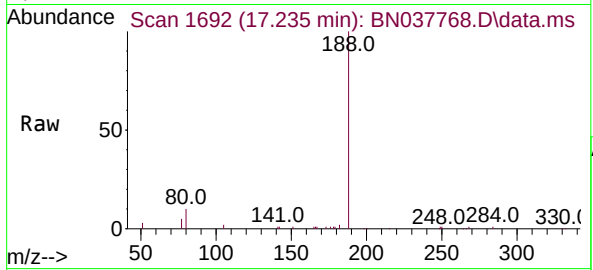
Tgt Ion:188 Resp: 17489

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.6 10.6 15.8#



#27

Fluoranthene-d10

Concen: 0.303 ng

RT: 19.262 min Scan# 1956

Delta R.T. -0.009 min

Lab File: BN037768.D

Acq: 18 Sep 2025 08:11

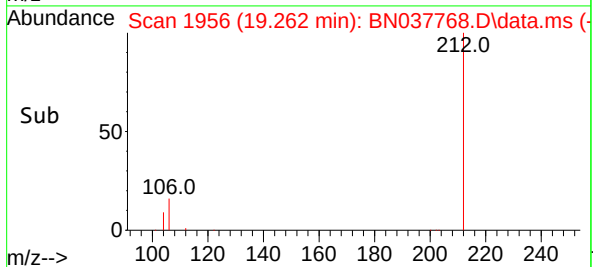
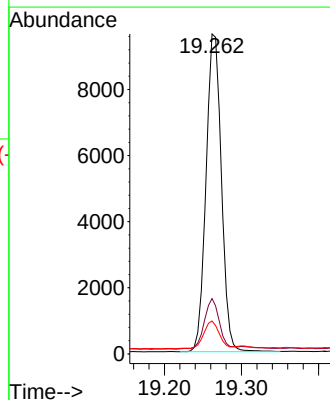
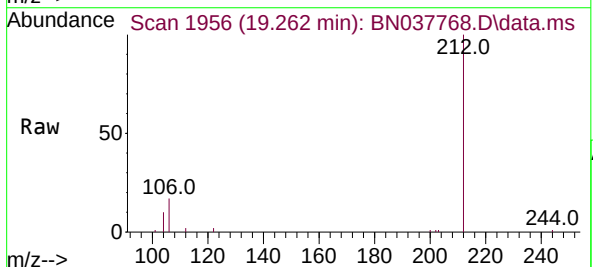
Tgt Ion:212 Resp: 13318

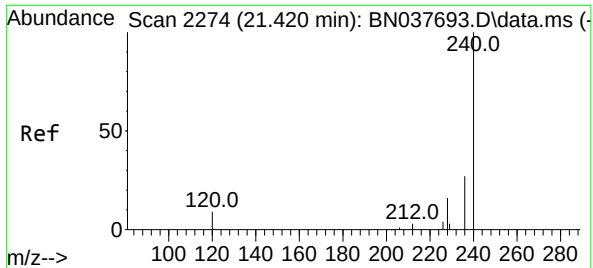
Ion Ratio Lower Upper

212 100

106 15.7 12.2 18.2

104 8.9 6.9 10.3

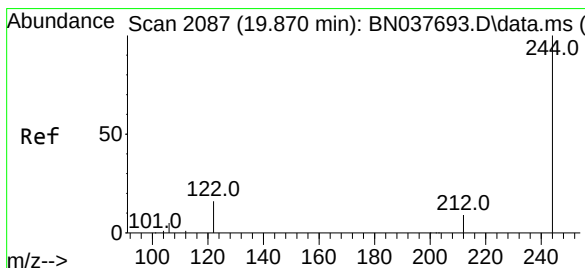
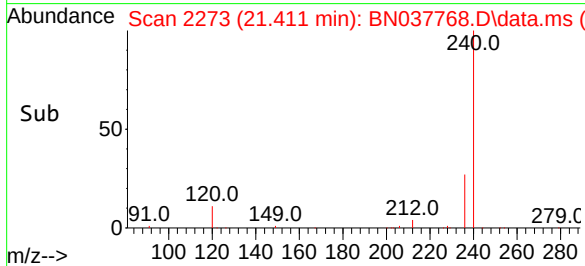
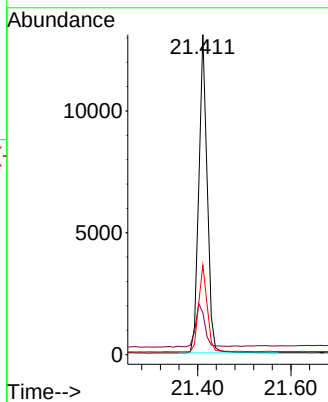
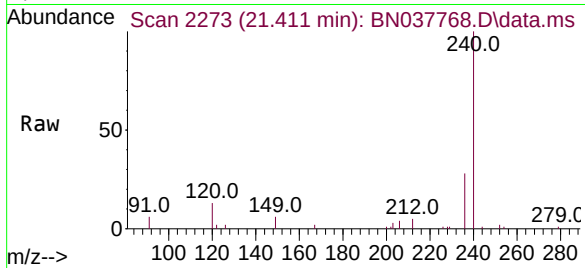




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

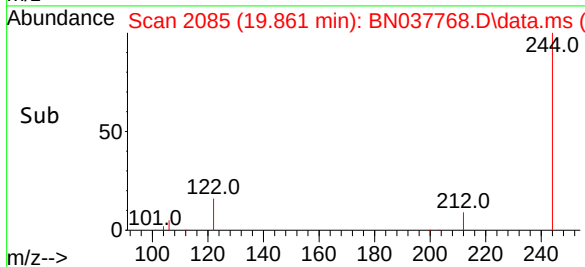
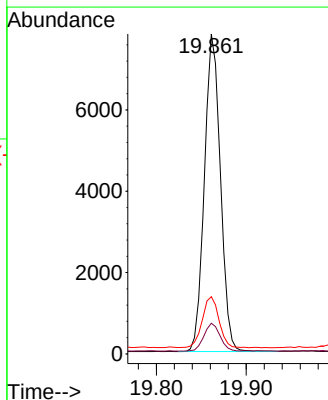
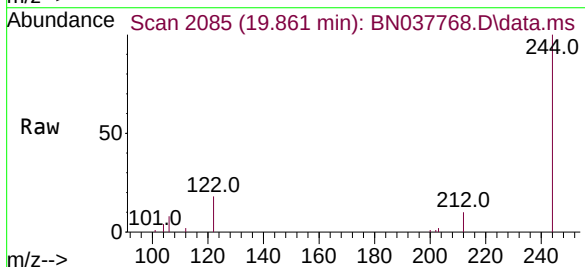
Instrument :
BNA_N
ClientSampleId :
MW178S-20250910

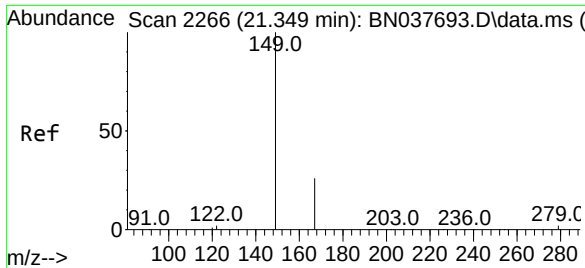
Tgt Ion:240 Resp: 16160
Ion Ratio Lower Upper
240 100
120 13.1 9.2 13.8
236 28.0 22.6 33.8



#31
Terphenyl-d14
Concen: 0.294 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

Tgt Ion:244 Resp: 9643
Ion Ratio Lower Upper
244 100
212 9.6 7.5 11.3
122 17.9 13.2 19.8

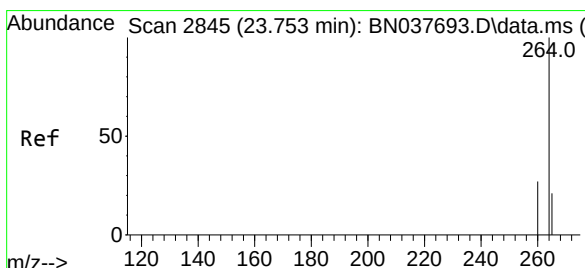
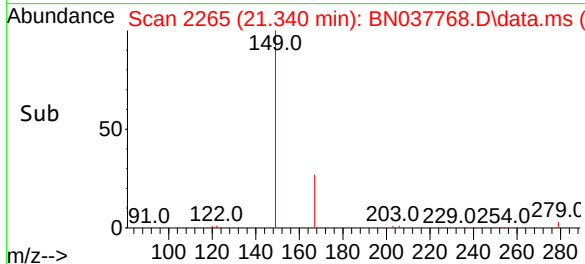
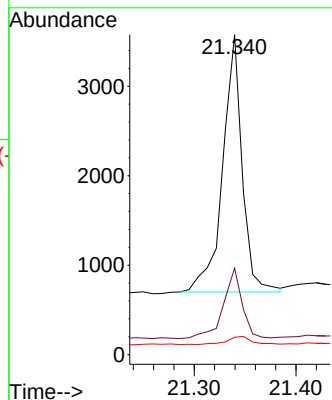
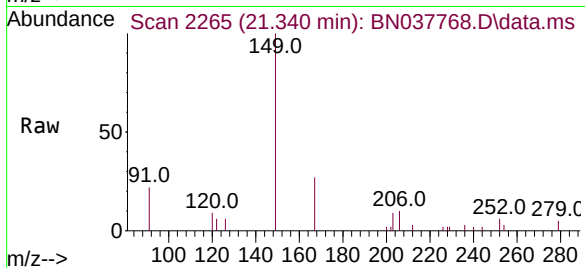




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.230 ng
RT: 21.340 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

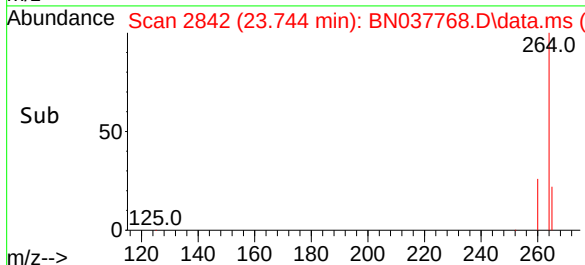
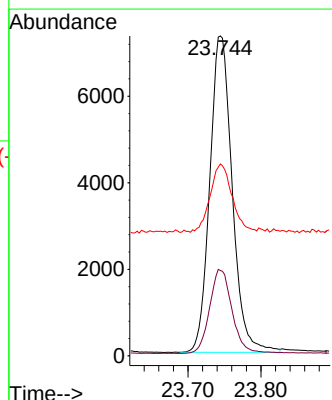
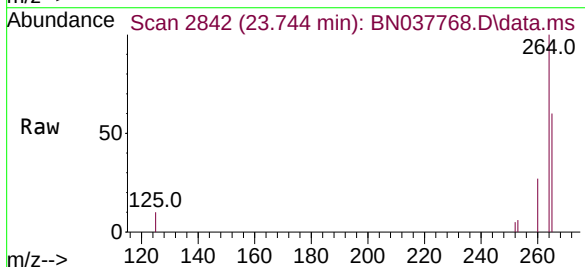
Instrument :
BNA_N
ClientSampleId :
MW178S-20250910

Tgt Ion:149 Resp: 3845
Ion Ratio Lower Upper
149 100
167 26.2 20.8 31.2
279 3.9 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

Tgt Ion:264 Resp: 15607
Ion Ratio Lower Upper
264 100
260 26.7 21.8 32.8
265 60.0 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE126D1-20250910	SDG No.:	Q3095
Lab Sample ID:	Q3095-21	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
BN037783.D	1	09/15/25 12:00	09/18/25 18:49	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.20		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		86%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		74%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		90%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8230	7.833				
1146-65-2	Naphthalene-d8	22500	10.637				
15067-26-2	Acenaphthene-d10	10500	14.484				
1517-22-2	Phenanthrene-d10	19300	17.235				
1719-03-5	Chrysene-d12	17300	21.411				
1520-96-3	Perylene-d12	17700	23.744				

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\BN091825\
 Data File : BN037783.D
 Acq On : 18 Sep 2025 18:49
 Operator : RC/JU
 Sample : Q3095-21
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE126D1-20250910

Quant Time: Sep 18 19:16:33 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

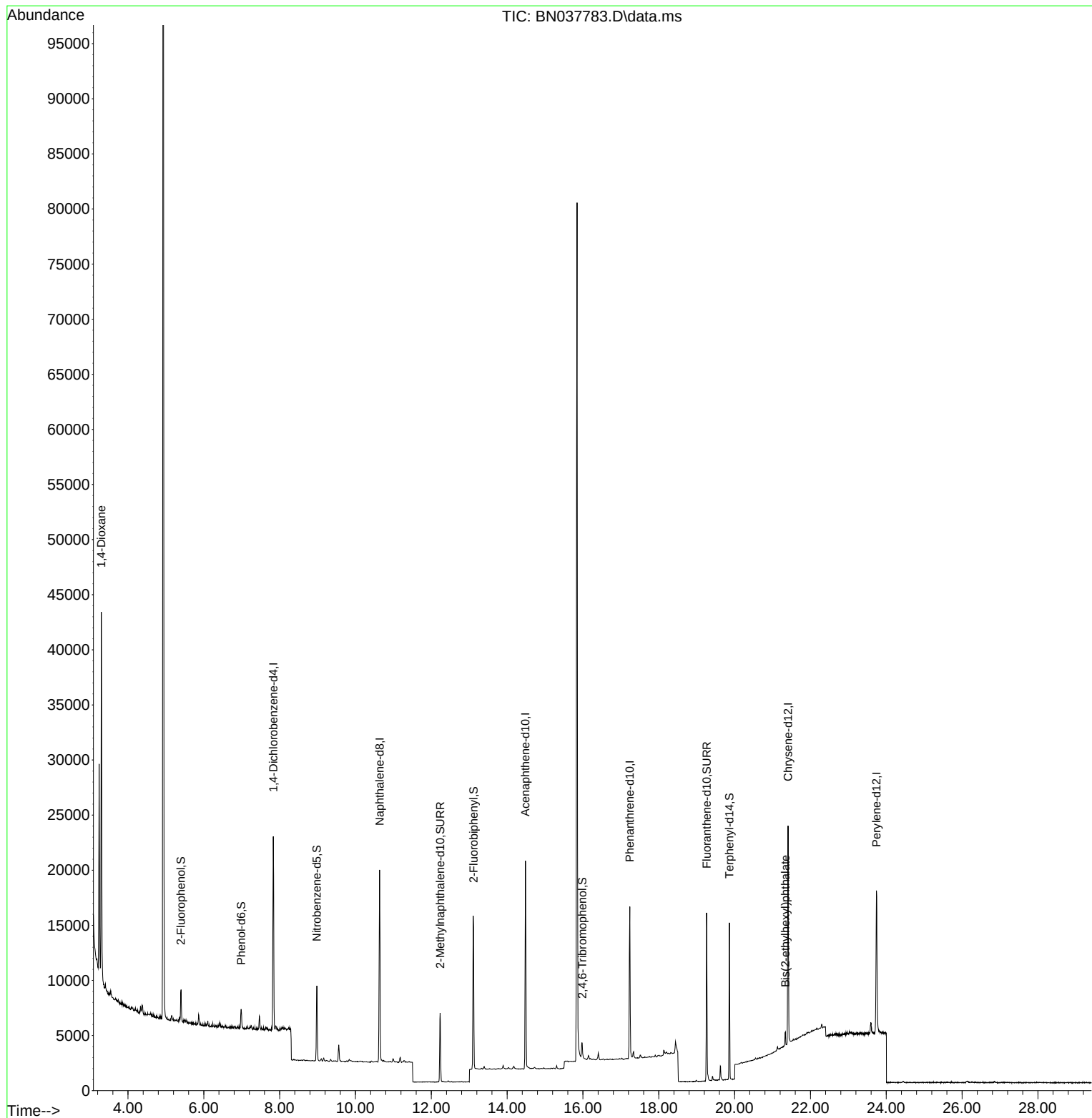
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	8225	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	22467	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	10495	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	19347	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	17267	0.400	ng	0.00
35) Perylene-d12	23.744	264	17743	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2296	0.122	ng	0.00
5) Phenol-d6	6.988	99	1662	0.068	ng	0.00
8) Nitrobenzene-d5	8.982	82	5178	0.315	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	8408	0.282	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	1005	0.367	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	12964	0.295	ng	0.00
27) Fluoranthene-d10	19.262	212	16784	0.346	ng	0.00
31) Terphenyl-d14	19.861	244	12609	0.360	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	19050	2.224	ng	97
34) Bis(2-ethylhexyl)phtha...	21.340	149	1361	0.076	ng	# 95

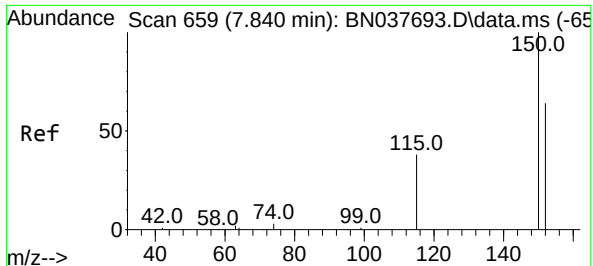
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037783.D
Acq On : 18 Sep 2025 18:49
Operator : RC/JU
Sample : Q3095-21
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE126D1-20250910

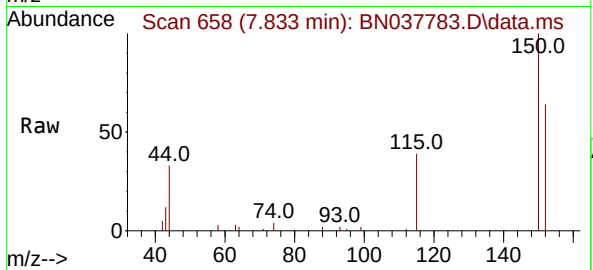
Quant Time: Sep 18 19:16:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



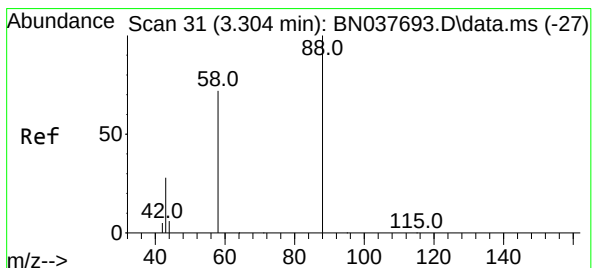
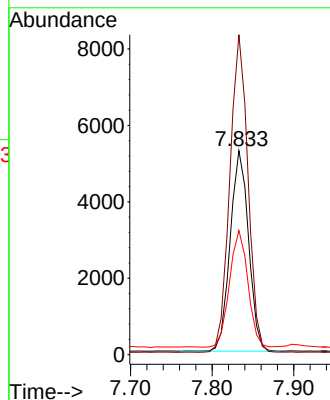
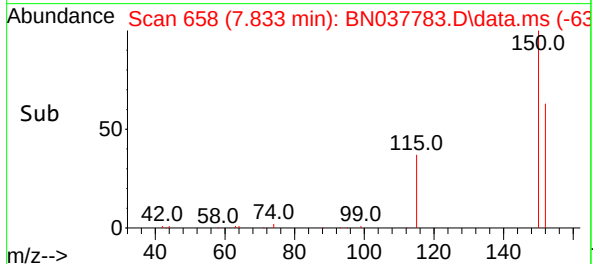


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

Instrument :
BNA_N
ClientSampleId :
RE126D1-20250910

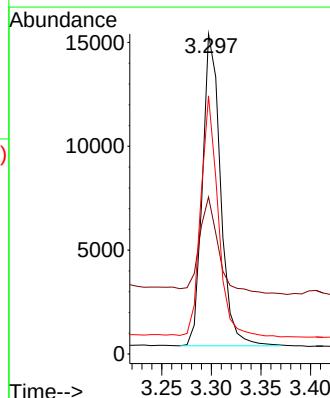
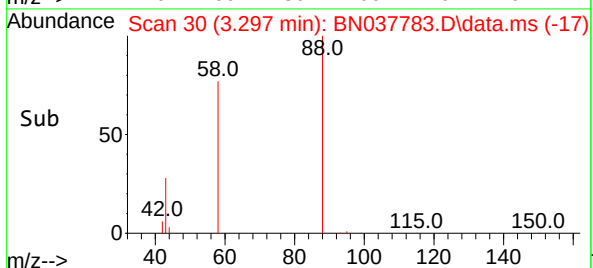
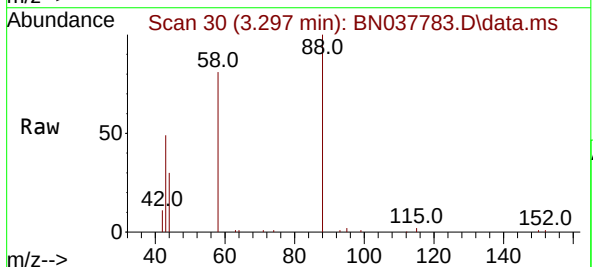


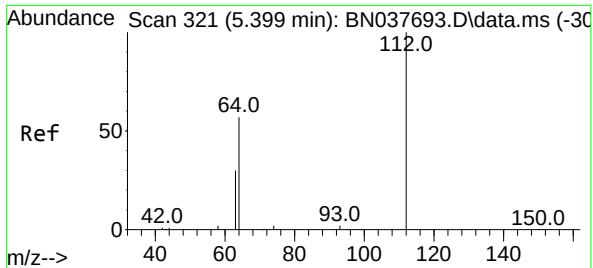
Tgt Ion:152 Resp: 8225
Ion Ratio Lower Upper
152 100
150 156.8 124.5 186.7
115 60.9 49.2 73.8



#2
1,4-Dioxane
Concen: 2.224 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

Tgt Ion: 88 Resp: 19050
Ion Ratio Lower Upper
88 100
43 32.2 26.8 40.2
58 74.3 61.9 92.9

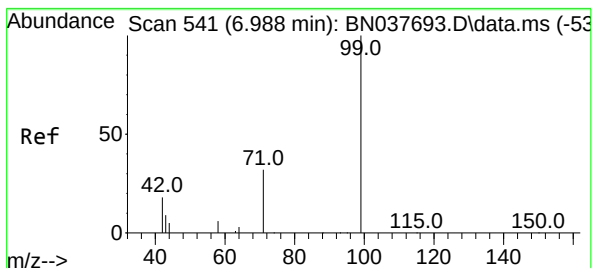
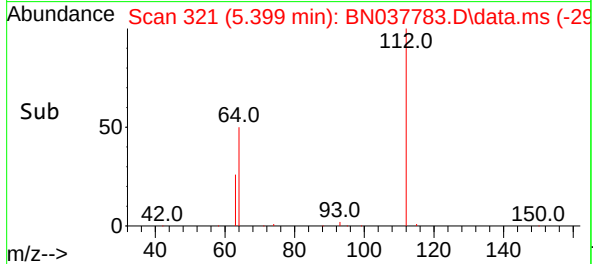
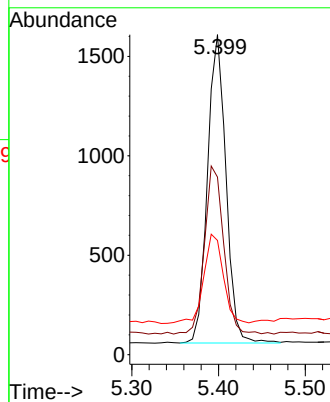
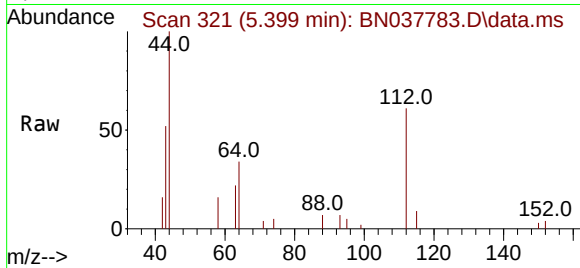




#4
2-Fluorophenol
Concen: 0.122 ng
RT: 5.399 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

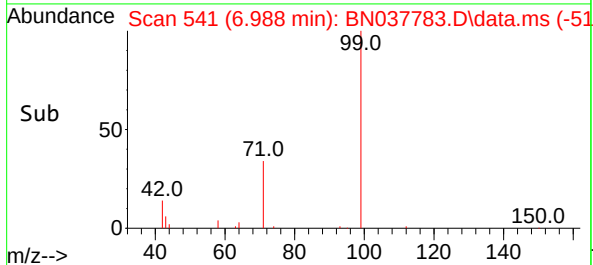
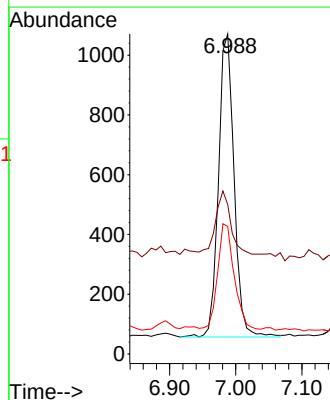
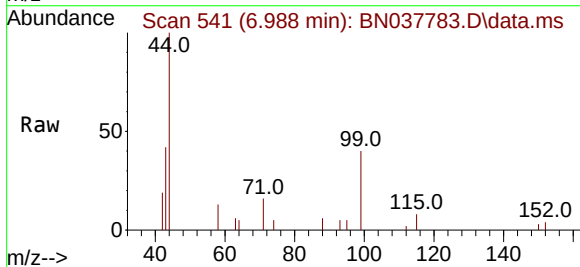
Instrument :
BNA_N
ClientSampleId :
RE126D1-20250910

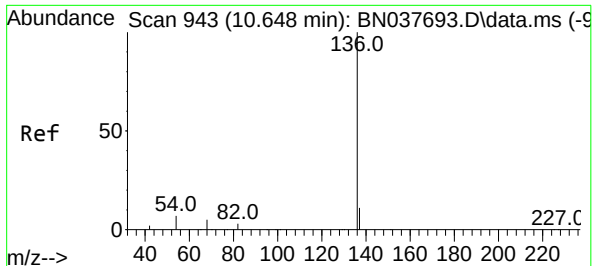
Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.6	44.9	67.3
63	30.6	24.7	37.1



#5
Phenol-d6
Concen: 0.068 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.5	16.6	24.8
71	38.3	26.7	40.1

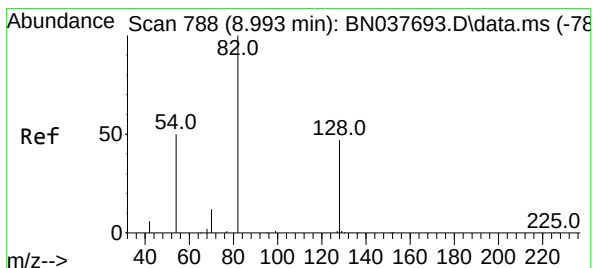
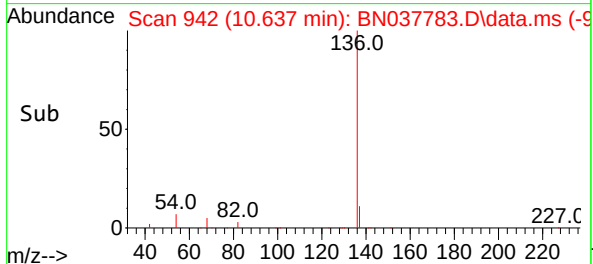
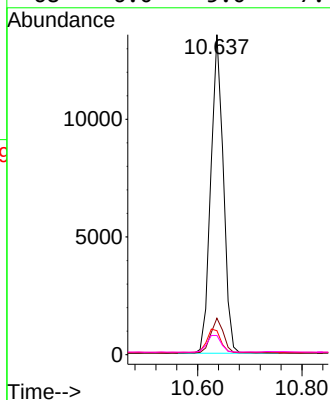
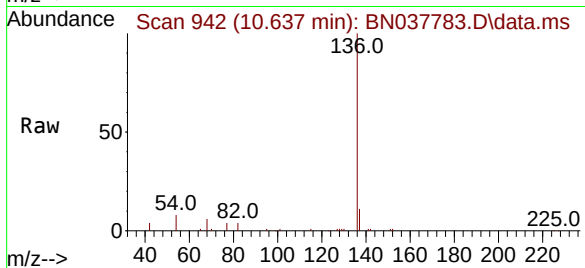




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

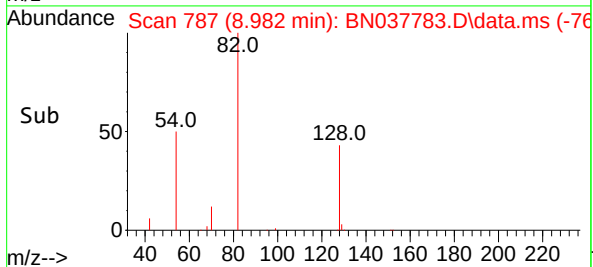
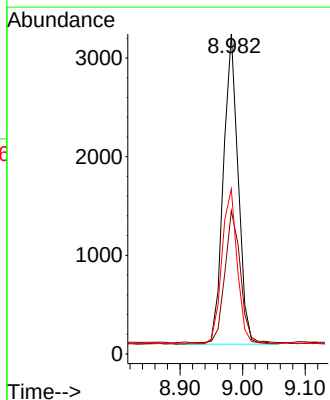
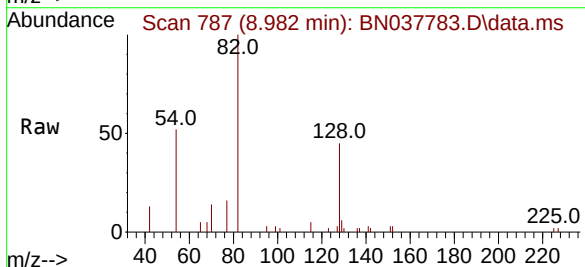
Instrument :
BNA_N
ClientSampleId :
RE126D1-20250910

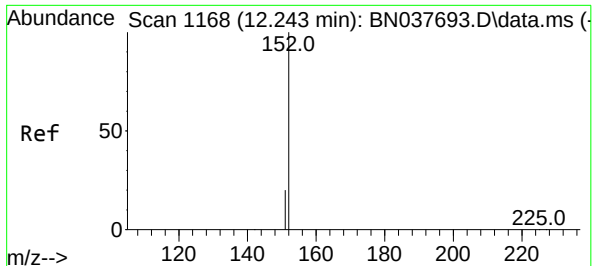
Tgt Ion:	136	Resp:	22467
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	7.5	6.3	9.5
68	6.0	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.315 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

Tgt Ion:	82	Resp:	5178
Ion	Ratio	Lower	Upper
82	100		
128	44.8	38.3	57.5
54	51.5	41.4	62.2

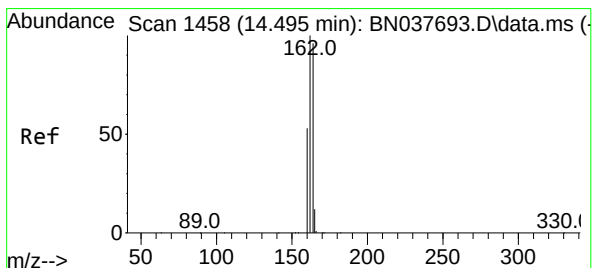
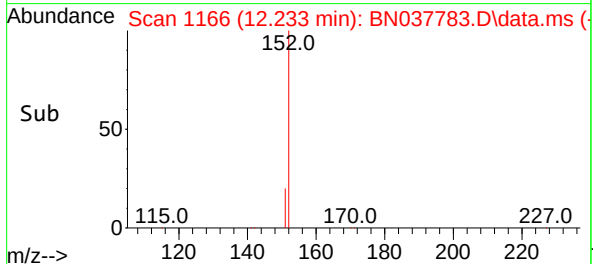
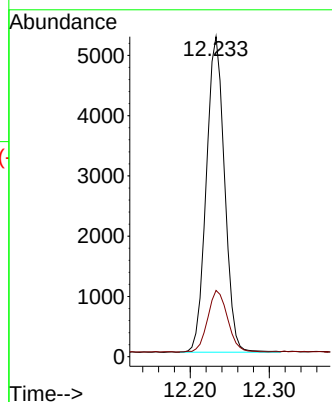
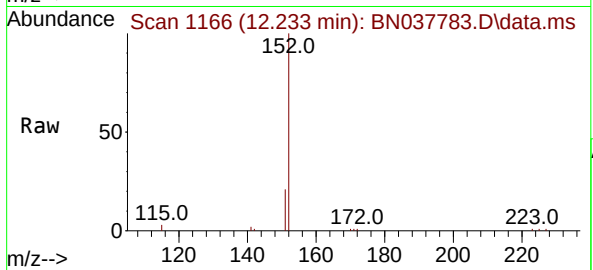




#11
2-Methylnaphthalene-d10
Concen: 0.282 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

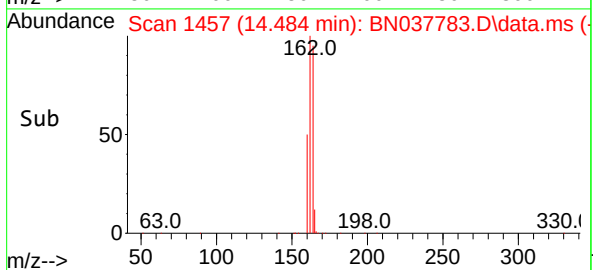
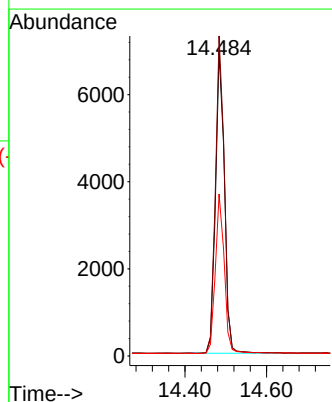
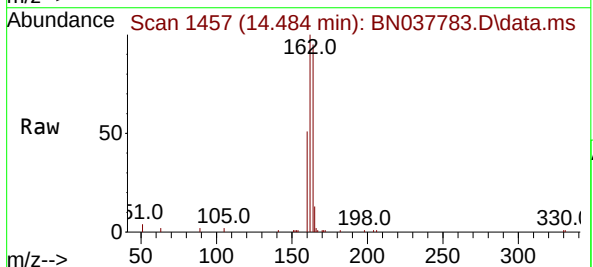
Instrument :
BNA_N
ClientSampleId :
RE126D1-20250910

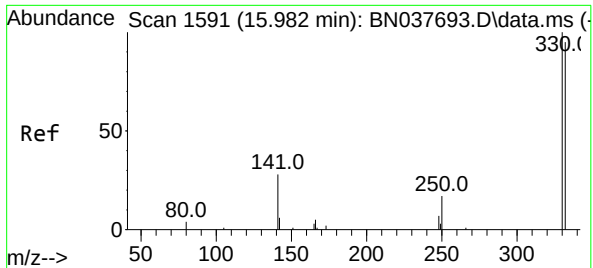
Tgt Ion:152 Resp: 8408
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

Tgt Ion:164 Resp: 10495
Ion Ratio Lower Upper
164 100
162 105.2 83.1 124.7
160 53.3 44.3 66.5

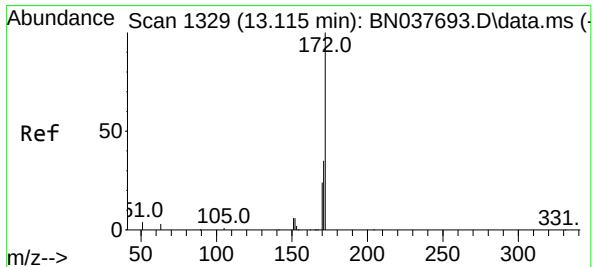
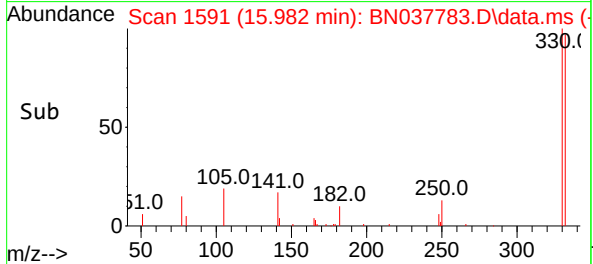
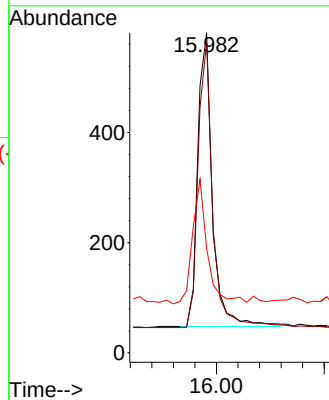
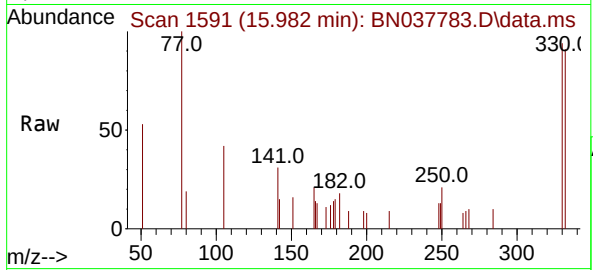




#14
2,4,6-Tribromophenol
Concen: 0.367 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

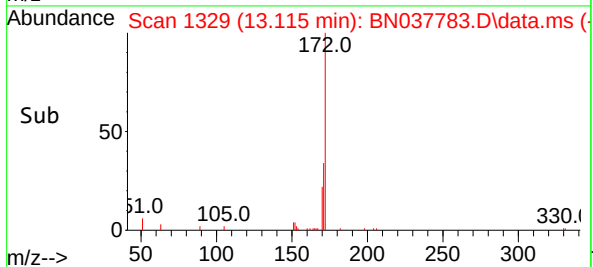
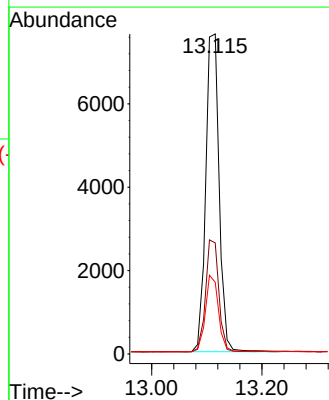
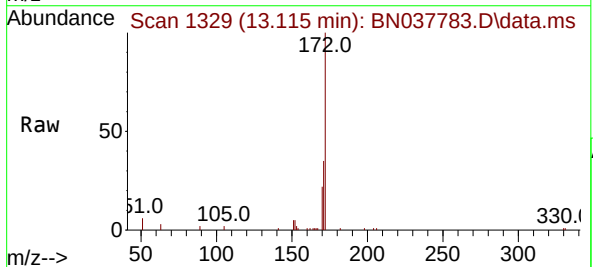
Instrument :
BNA_N
ClientSampleId :
RE126D1-20250910

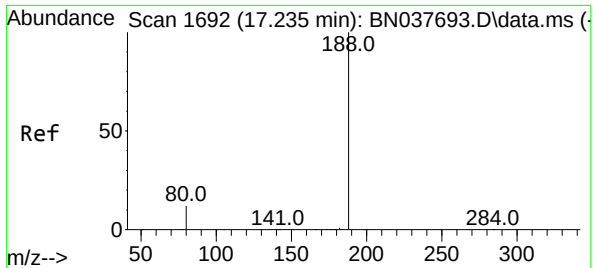
Tgt Ion:330 Resp: 1005
Ion Ratio Lower Upper
330 100
332 96.8 75.3 112.9
141 43.0 35.0 52.4



#15
2-Fluorobiphenyl
Concen: 0.295 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

Tgt Ion:172 Resp: 12964
Ion Ratio Lower Upper
172 100
171 34.7 28.6 43.0
170 22.4 19.8 29.8

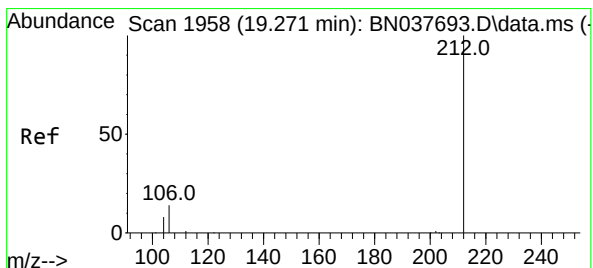
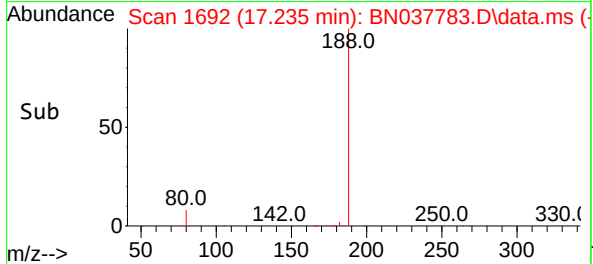
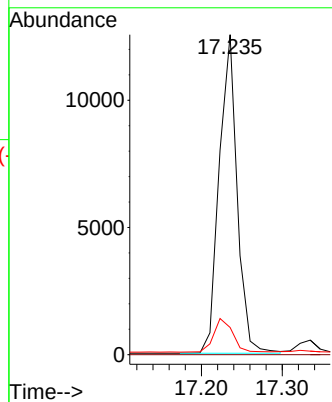
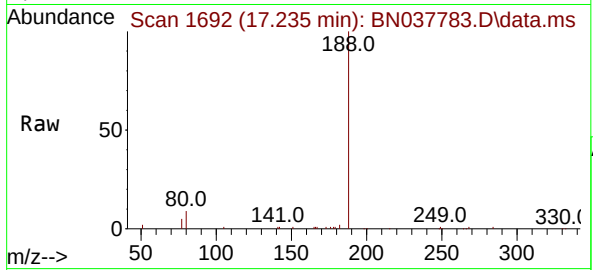




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

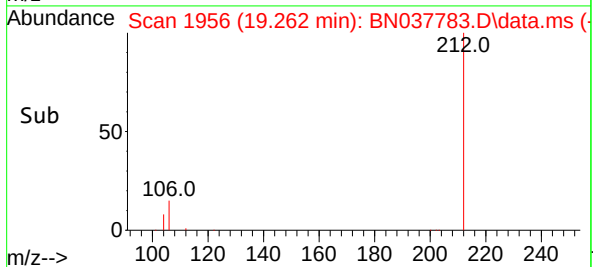
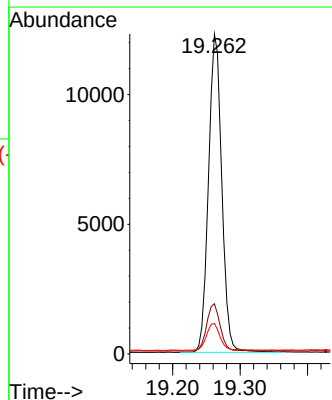
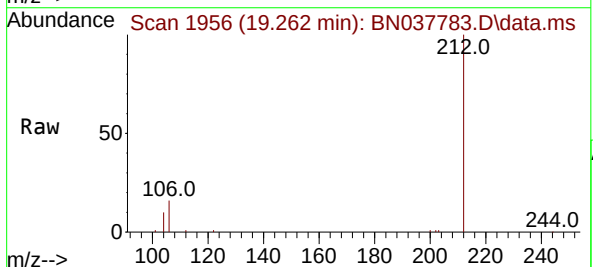
Instrument :
BNA_N
ClientSampleId :
RE126D1-20250910

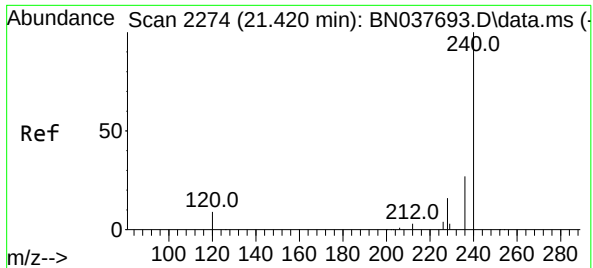
Tgt Ion:188 Resp: 19347
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.5 10.6 15.8#



#27
Fluoranthene-d10
Concen: 0.346 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

Tgt Ion:212 Resp: 16784
Ion Ratio Lower Upper
212 100
106 15.2 12.2 18.2
104 8.6 6.9 10.3

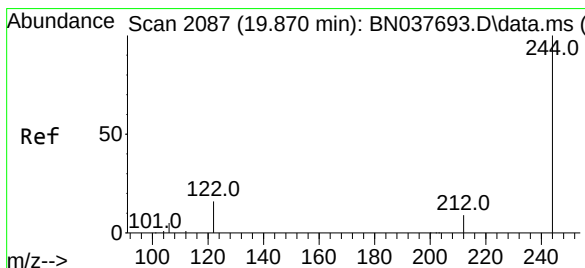
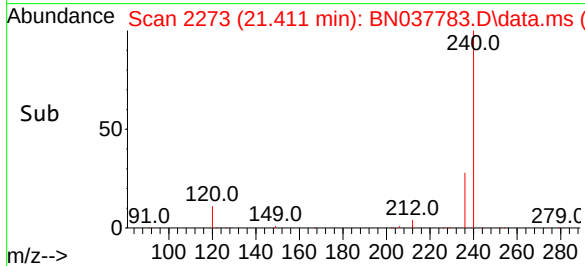
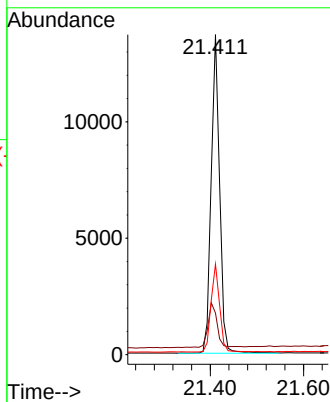
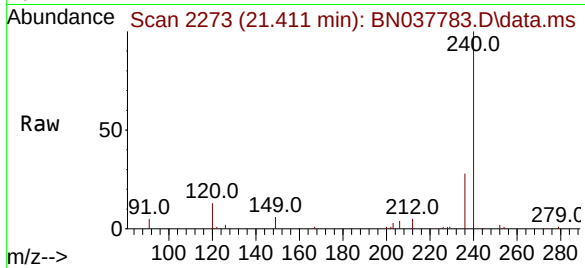




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

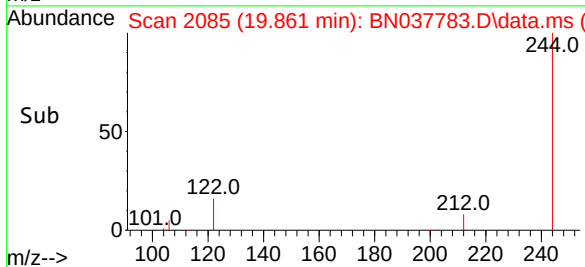
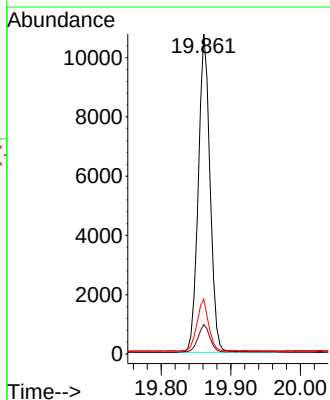
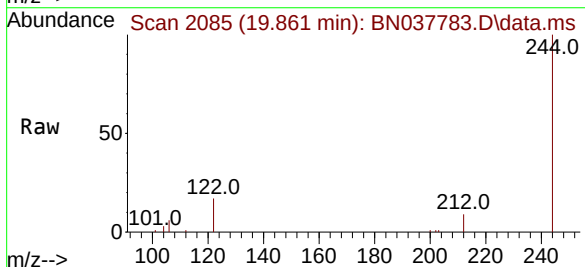
Instrument :
BNA_N
ClientSampleId :
RE126D1-20250910

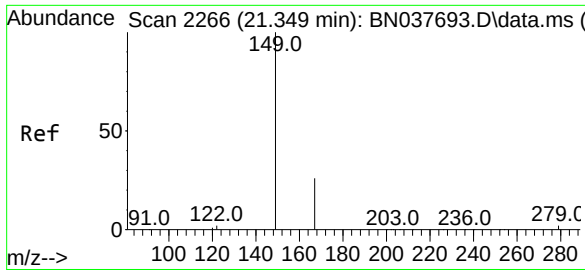
Tgt Ion:240 Resp: 17267
Ion Ratio Lower Upper
240 100
120 13.0 9.2 13.8
236 28.3 22.6 33.8



#31
Terphenyl-d14
Concen: 0.360 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

Tgt Ion:244 Resp: 12609
Ion Ratio Lower Upper
244 100
212 9.2 7.5 11.3
122 17.1 13.2 19.8

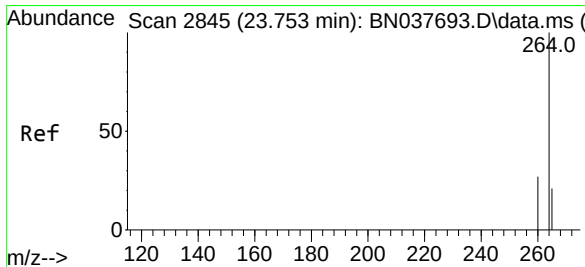
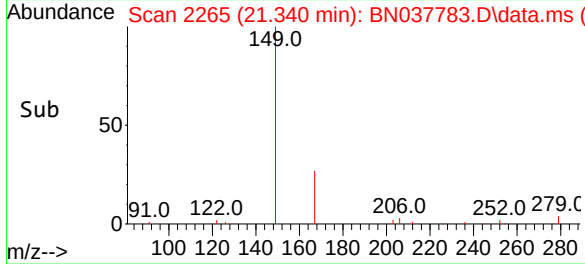
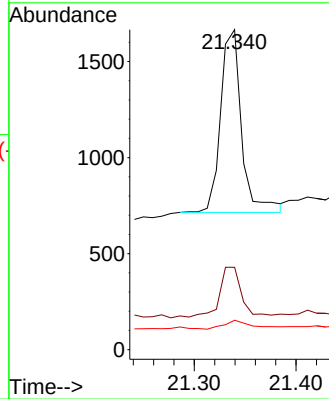
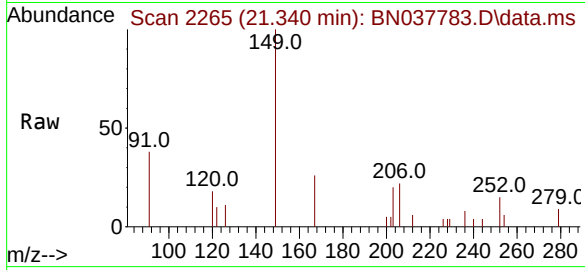




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.076 ng
RT: 21.340 min Scan# 2134
Delta R.T. -0.009 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

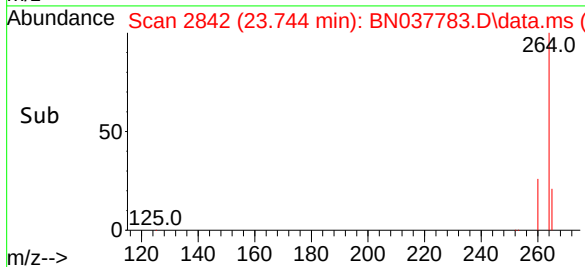
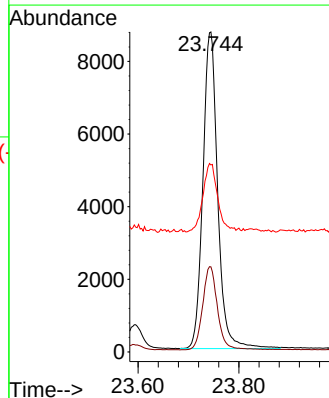
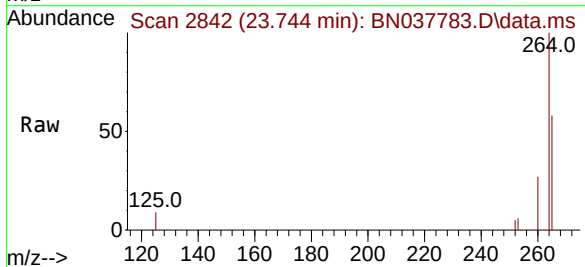
Instrument :
BNA_N
ClientSampleId :
RE126D1-20250910

Tgt Ion:149 Resp: 1361
Ion Ratio Lower Upper
149 100
167 28.1 20.8 31.2
279 6.6 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

Tgt Ion:264 Resp: 17743
Ion Ratio Lower Upper
264 100
260 26.6 21.8 32.8
265 58.5 39.4 59.2



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	MW202D1-20250910	SDG No.:	Q3095
Lab Sample ID:	Q3095-22	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
BN037784.D	1	09/15/25 12:00	09/18/25 19:25	PB169693

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	0.34		30 - 150		86%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		93%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		94%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		98%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7720	7.833				
1146-65-2	Naphthalene-d8	20900	10.637				
15067-26-2	Acenaphthene-d10	9440	14.484				
1517-22-2	Phenanthrene-d10	16200	17.235				
1719-03-5	Chrysene-d12	13600	21.411				
1520-96-3	Perylene-d12	13800	23.741				

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\BN091825\
 Data File : BN037784.D
 Acq On : 18 Sep 2025 19:25
 Operator : RC/JU
 Sample : Q3095-22
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW202D1-20250910

Quant Time: Sep 19 04:17:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

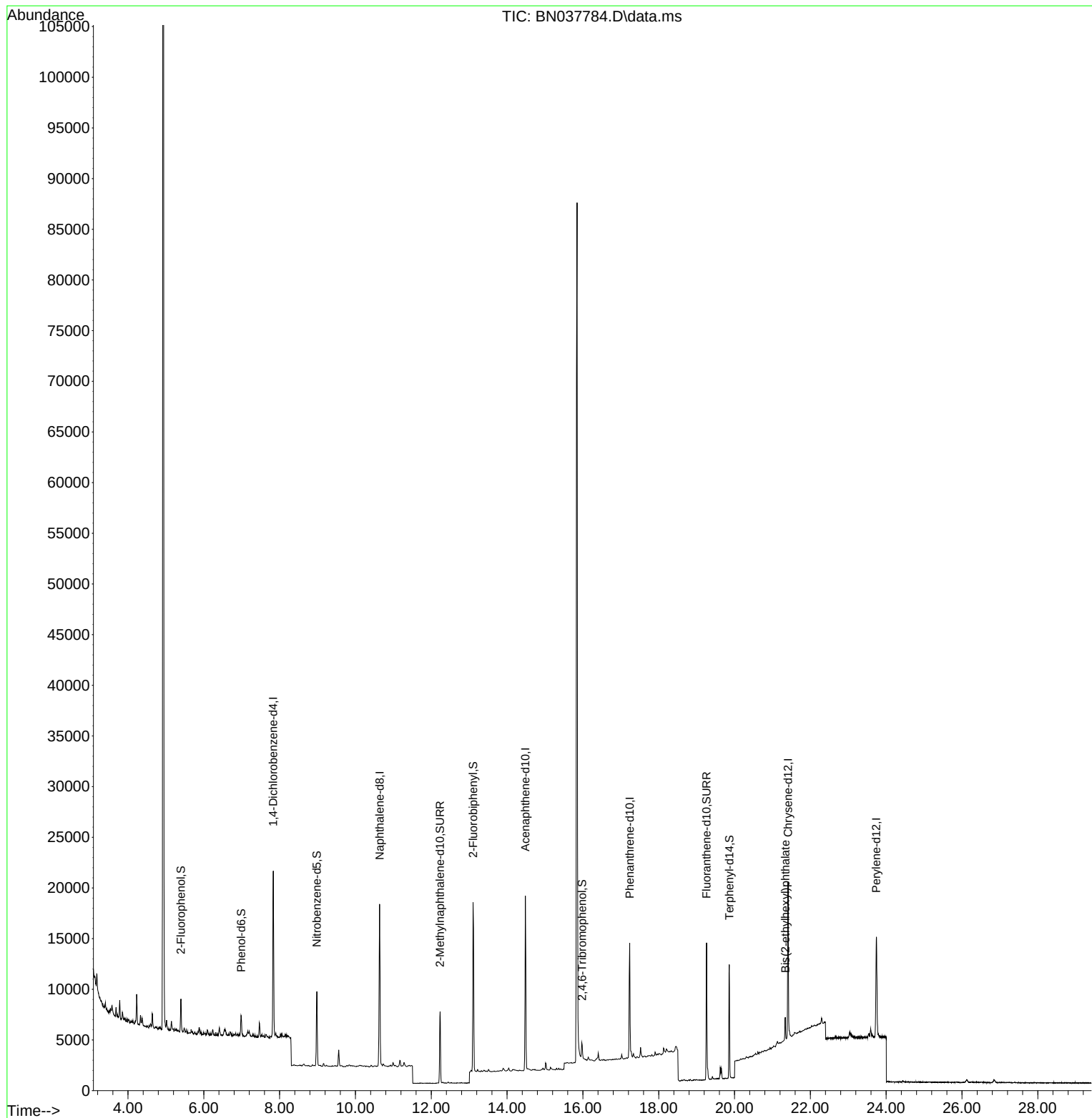
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7721	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	20880	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	9442	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	16202	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	13556	0.400	ng	0.00
35) Perylene-d12	23.741	264	13782	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2651	0.150	ng	0.00
5) Phenol-d6	6.988	99	1924	0.084	ng	0.00
8) Nitrobenzene-d5	8.982	82	5656	0.370	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	9459	0.342	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	1049	0.426	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	14911	0.378	ng	-0.01
27) Fluoranthene-d10	19.262	212	14723	0.362	ng	0.00
31) Terphenyl-d14	19.861	244	10812	0.393	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.340	149	2668	0.190	ng	96

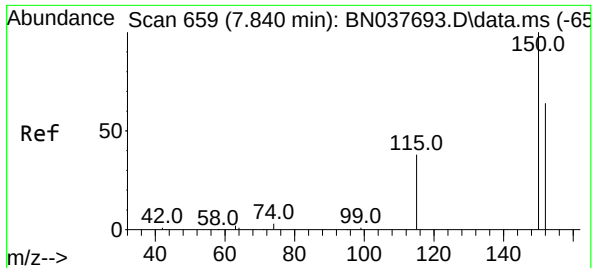
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037784.D
Acq On : 18 Sep 2025 19:25
Operator : RC/JU
Sample : Q3095-22
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW202D1-20250910

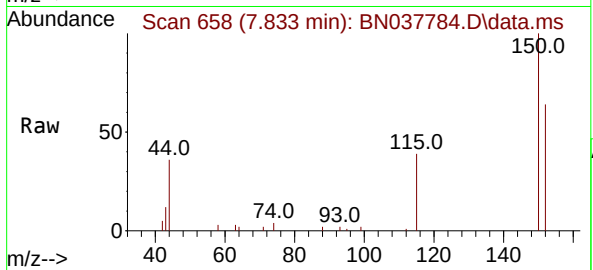
Quant Time: Sep 19 04:17:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



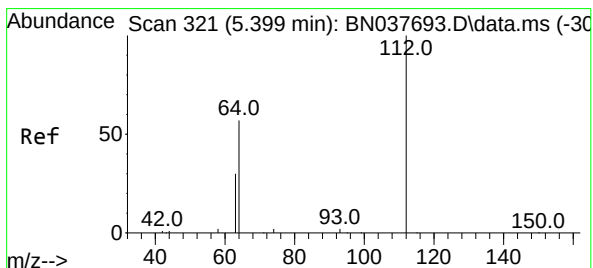
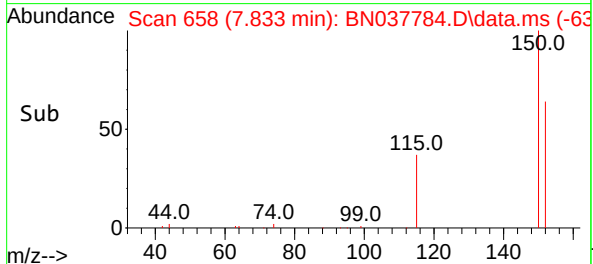
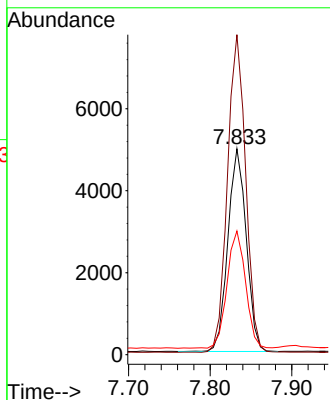


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 659
Delta R.T. -0.007 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

Instrument :
BNA_N
ClientSampleId :
MW202D1-20250910

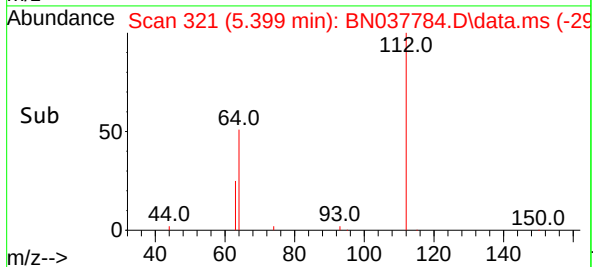
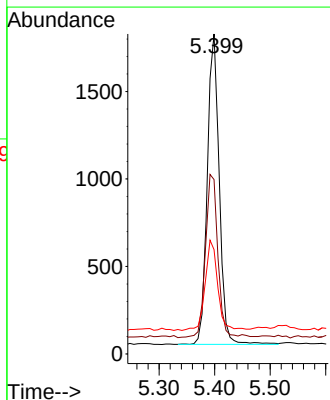
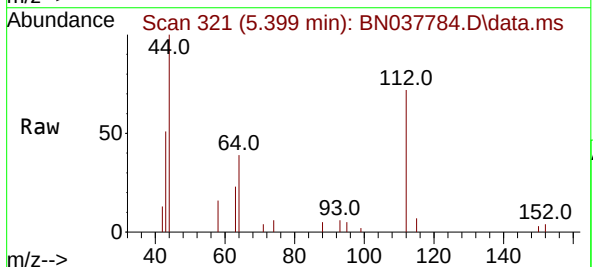


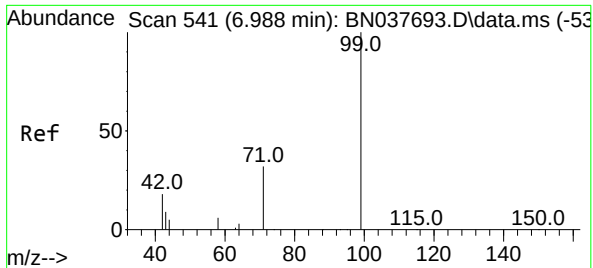
Tgt Ion:152 Resp: 7721
Ion Ratio Lower Upper
152 100
150 155.4 124.5 186.7
115 60.0 49.2 73.8



#4
2-Fluorophenol
Concen: 0.150 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

Tgt Ion:112 Resp: 2651
Ion Ratio Lower Upper
112 100
64 53.9 44.9 67.3
63 30.7 24.7 37.1

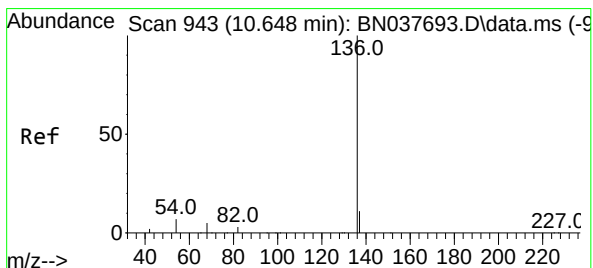
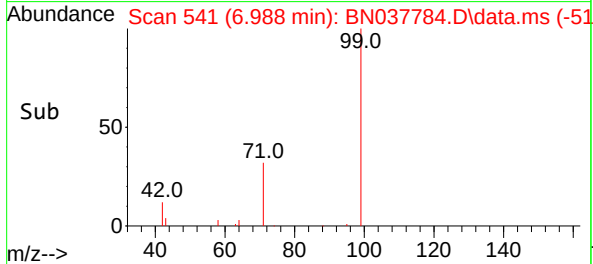
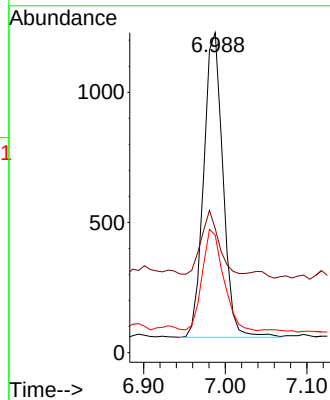
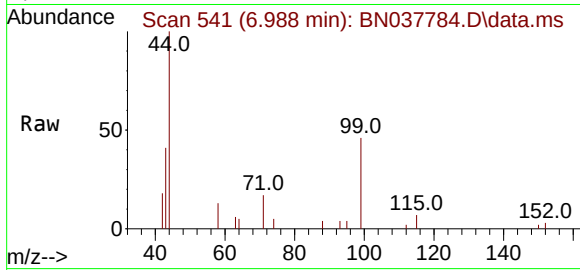




#5
Phenol-d6
Concen: 0.084 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

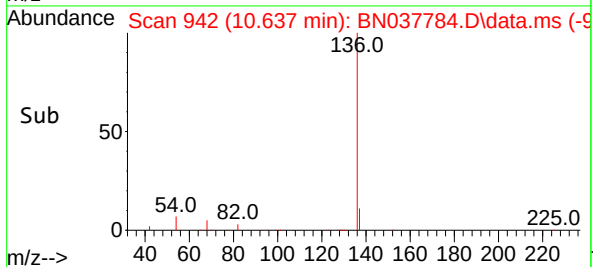
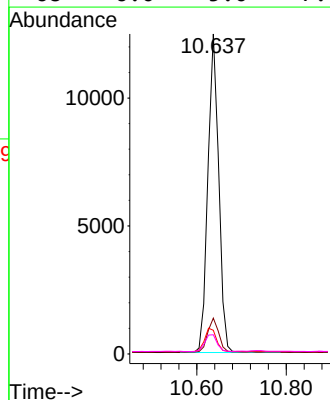
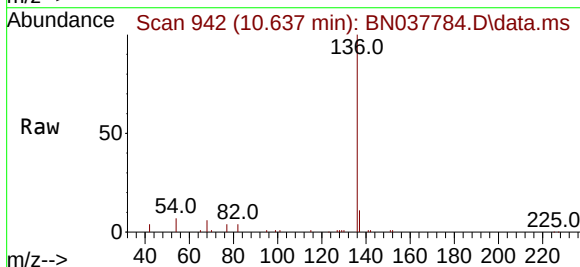
Instrument :
BNA_N
ClientSampleId :
MW202D1-20250910

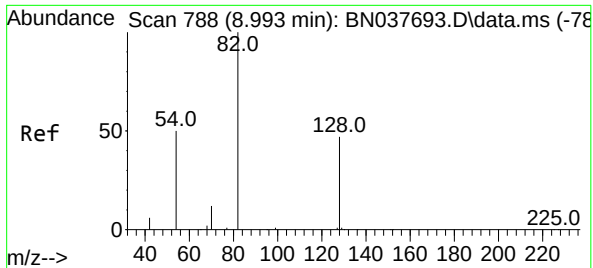
Tgt Ion	Ratio	Lower	Upper
99	100		
42	19.6	16.6	24.8
71	36.4	26.7	40.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	7.4	6.3	9.5
68	6.0	5.0	7.4

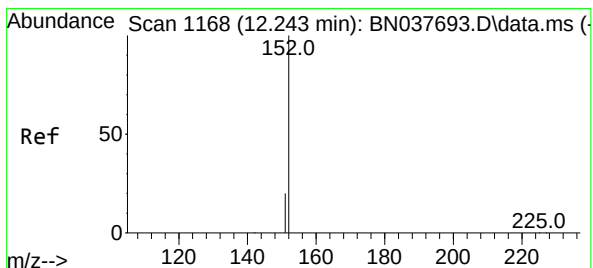
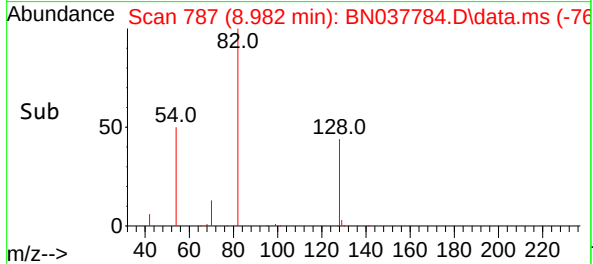
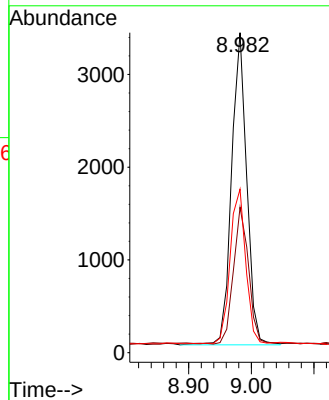
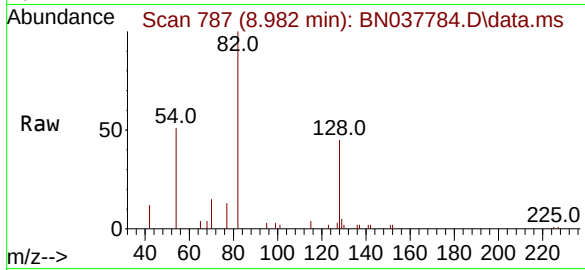




#8
Nitrobenzene-d5
Concen: 0.370 ng
RT: 8.982 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

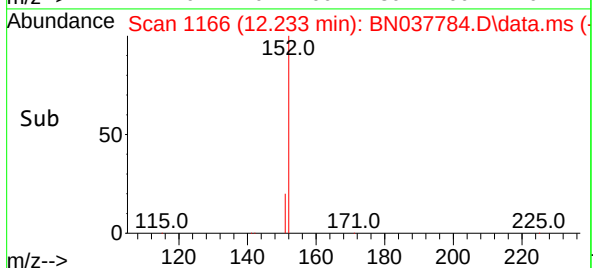
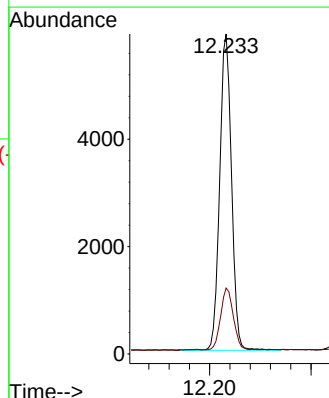
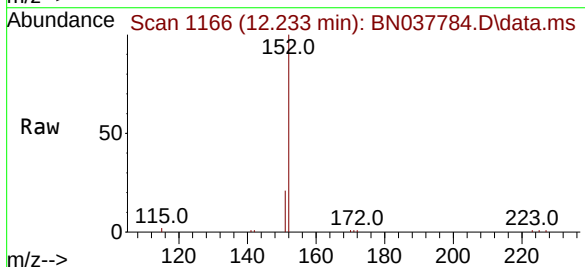
Instrument :
BNA_N
ClientSampleId :
MW202D1-20250910

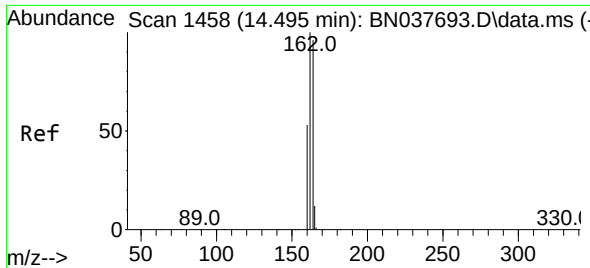
Tgt Ion:	82	Resp:	5656
Ion Ratio	Lower	Upper	
82	100		
128	45.4	38.3	57.5
54	51.1	41.4	62.2



#11
2-Methylnaphthalene-d10
Concen: 0.342 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

Tgt Ion:	152	Resp:	9459
Ion Ratio	Lower	Upper	
152	100		
151	21.0	17.0	25.6

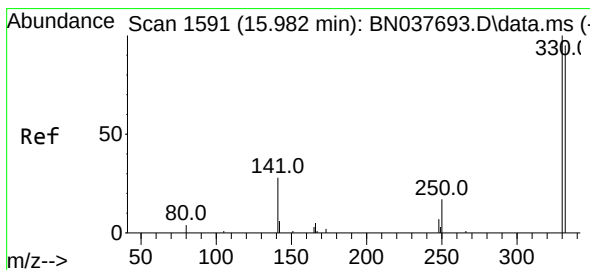
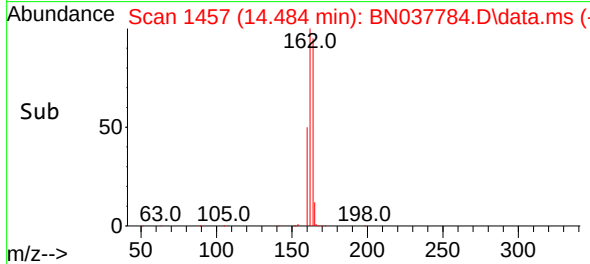
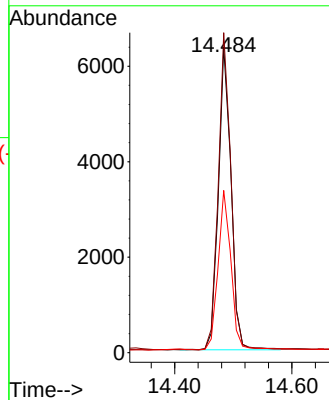
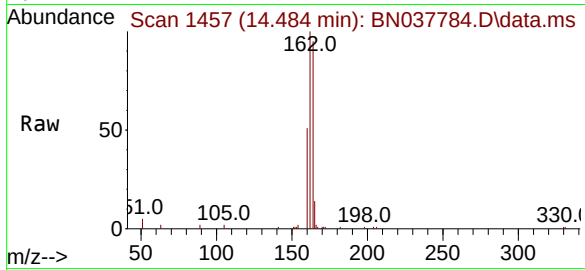




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

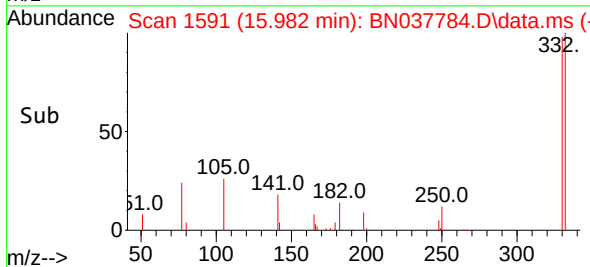
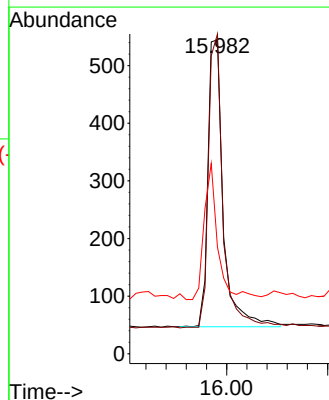
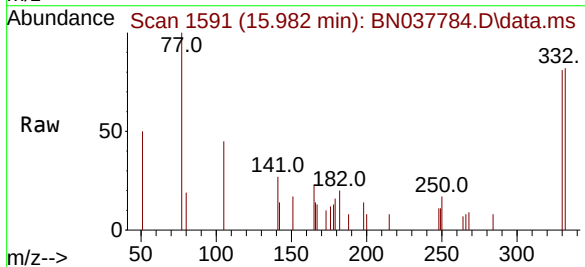
Instrument :
BNA_N
ClientSampleId :
MW202D1-20250910

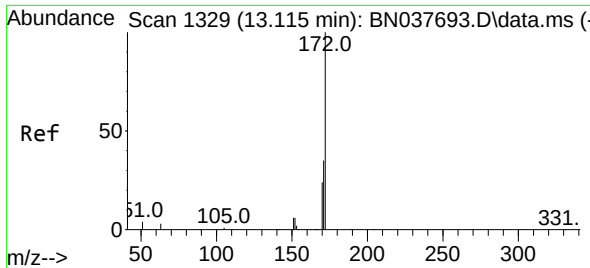
Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.7	83.1	124.7
160	53.1	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.426 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.4	75.3	112.9
141	40.0	35.0	52.4

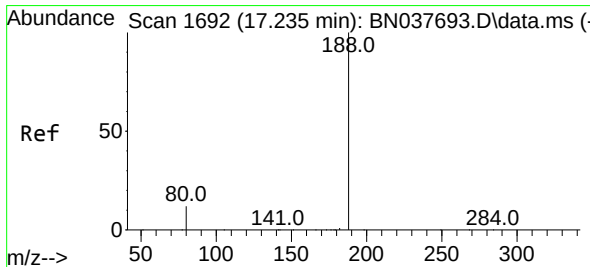
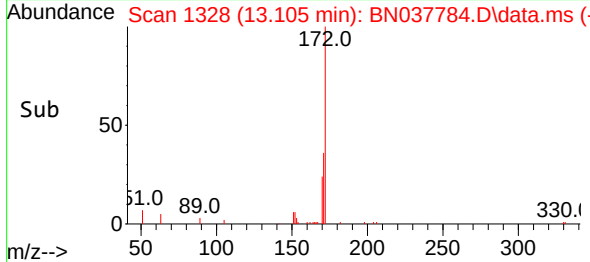
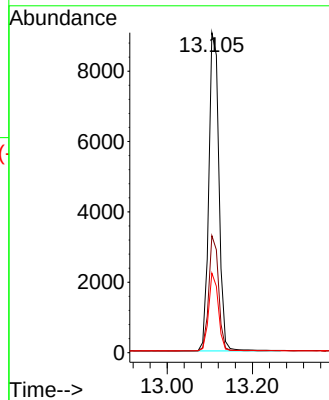
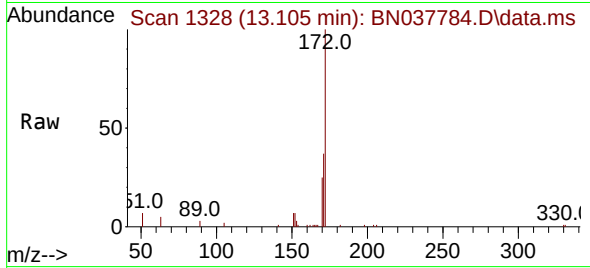




#15
2-Fluorobiphenyl
Concen: 0.378 ng
RT: 13.105 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

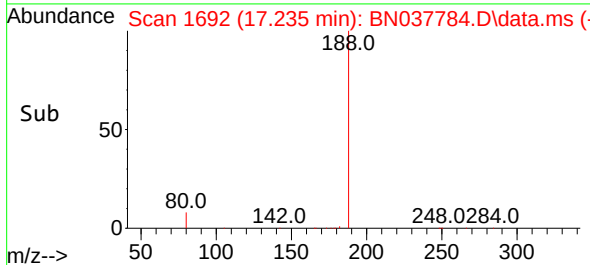
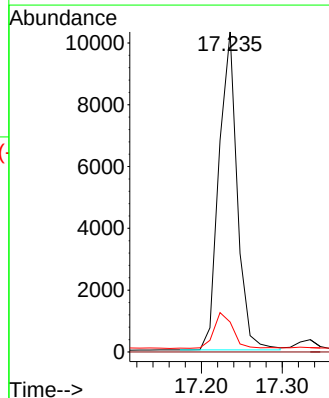
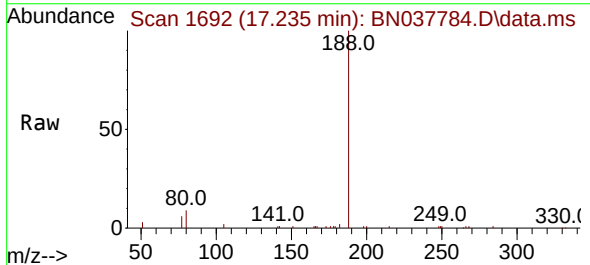
Instrument :
BNA_N
ClientSampleId :
MW202D1-20250910

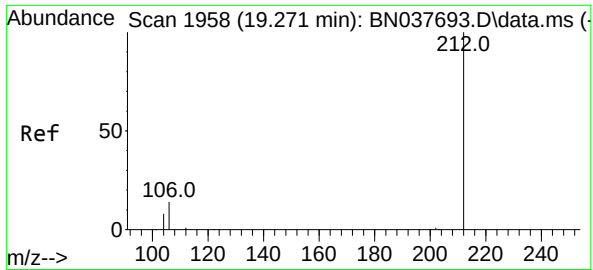
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.6	28.6	43.0
170	24.8	19.8	29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.3	10.6	15.8

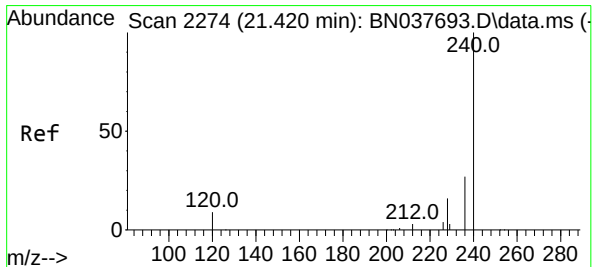
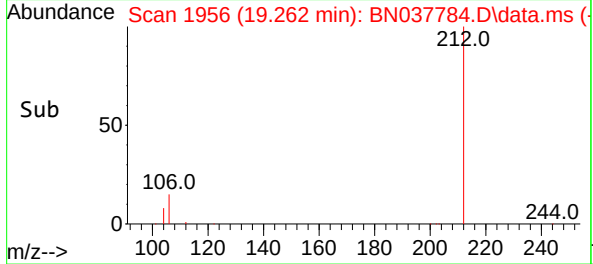
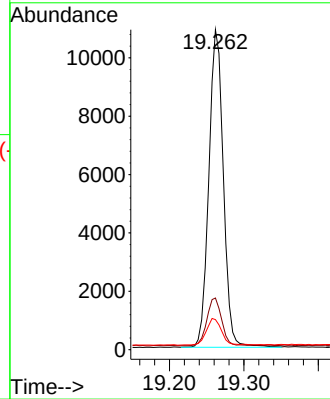
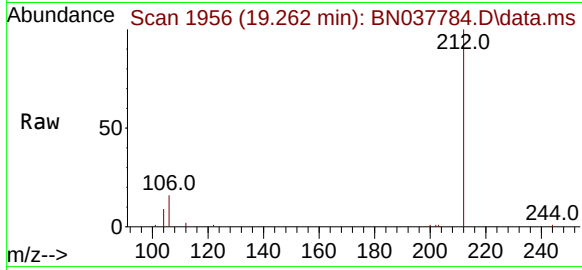




#27
Fluoranthene-d10
Concen: 0.362 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

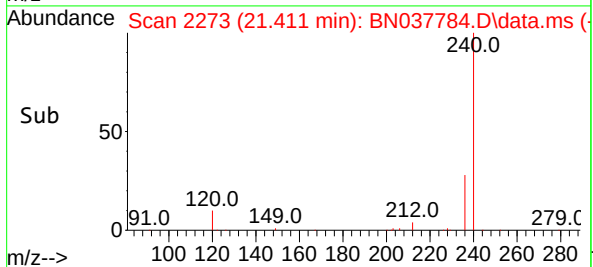
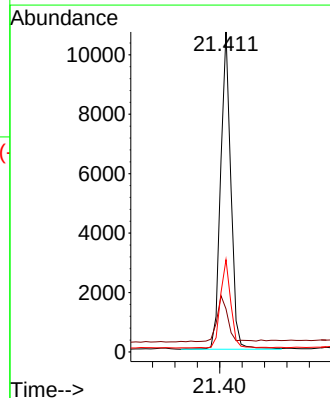
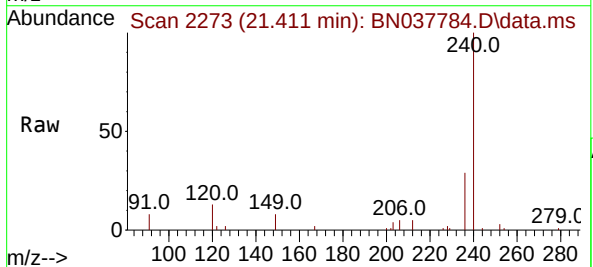
Instrument :
BNA_N
ClientSampleId :
MW202D1-20250910

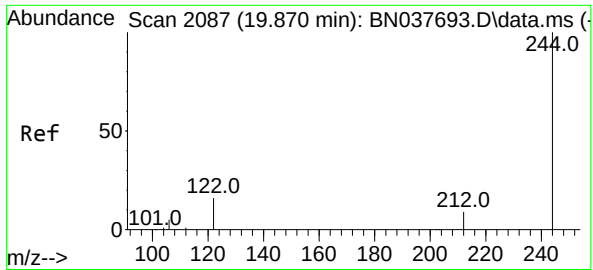
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.3	12.2	18.2
104	8.6	6.9	10.3



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.5	9.2	13.8
236	28.8	22.6	33.8

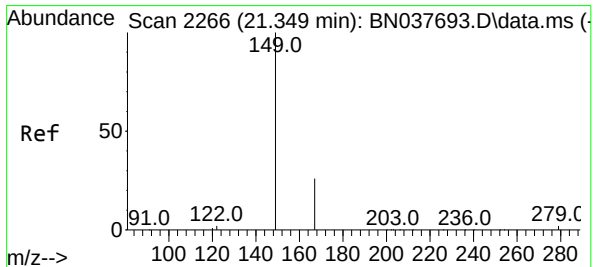
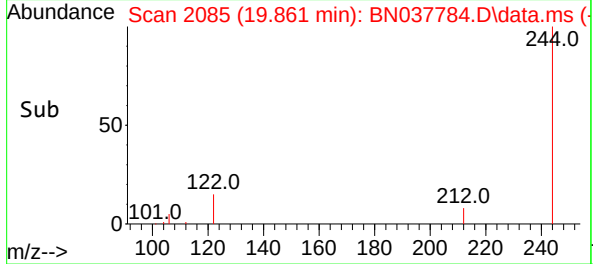
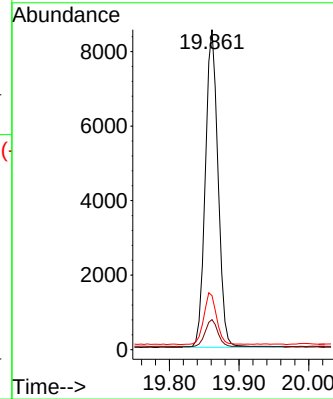
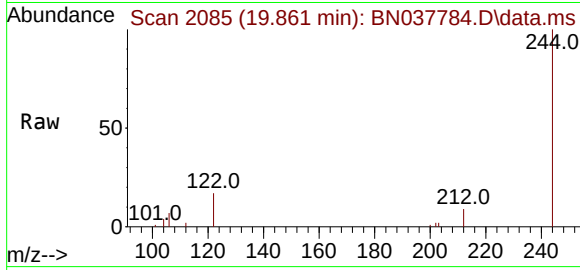




#31
Terphenyl-d14
Concen: 0.393 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

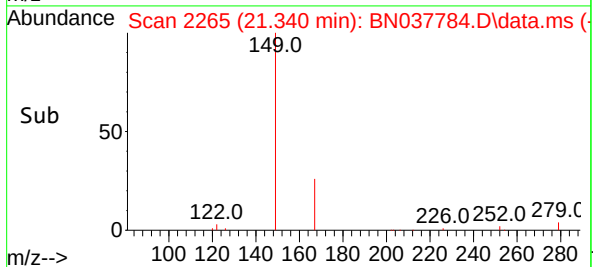
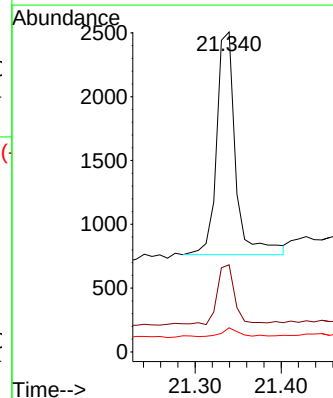
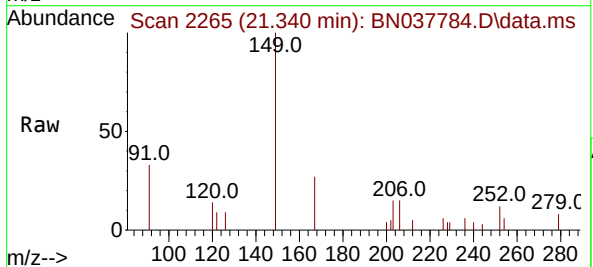
Instrument :
BNA_N
ClientSampleId :
MW202D1-20250910

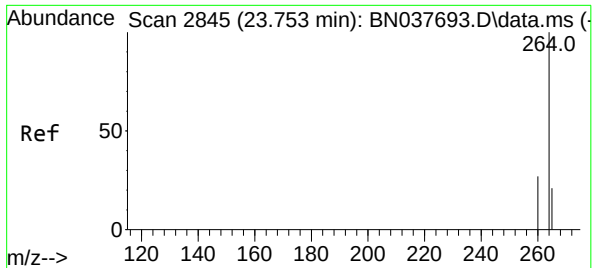
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.5	11.3
122	16.9	13.2	19.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.190 ng
RT: 21.340 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

Tgt Ion	Ratio	Lower	Upper
149	100		
167	23.5	20.8	31.2
279	3.3	3.3	4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.741 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037784.D

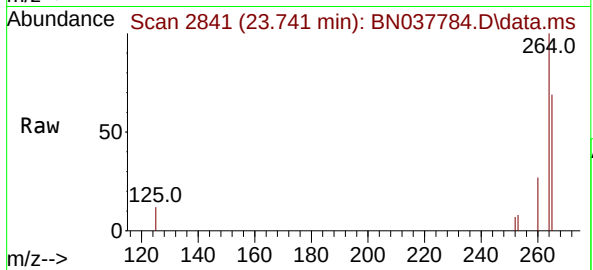
Acq: 18 Sep 2025 19:25

Instrument :

BNA_N

ClientSampleId :

MW202D1-20250910



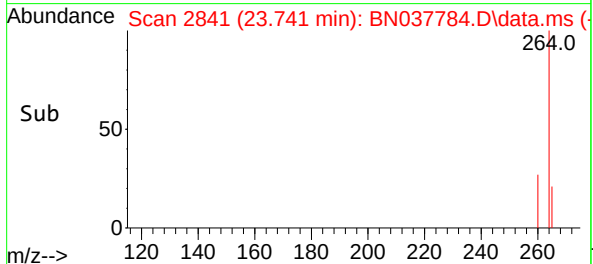
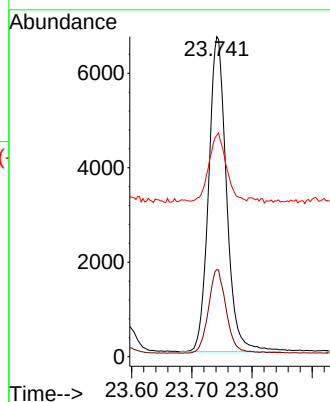
Tgt Ion:264 Resp: 13782

Ion Ratio Lower Upper

264 100

260 27.2 21.8 32.8

265 69.2 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE104D2-20250910	SDG No.:	Q3095
Lab Sample ID:	Q3095-23	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
BN037785.D	1	09/15/25 12:00	09/18/25 20:02	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.10		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		95%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		99%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7420	7.833				
1146-65-2	Naphthalene-d8	19800	10.637				
15067-26-2	Acenaphthene-d10	9120	14.484				
1517-22-2	Phenanthrene-d10	16800	17.235				
1719-03-5	Chrysene-d12	15000	21.411				
1520-96-3	Perylene-d12	14800	23.741				

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\BN091825\
 Data File : BN037785.D
 Acq On : 18 Sep 2025 20:02
 Operator : RC/JU
 Sample : Q3095-23
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE104D2-20250910

Quant Time: Sep 19 04:10:58 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

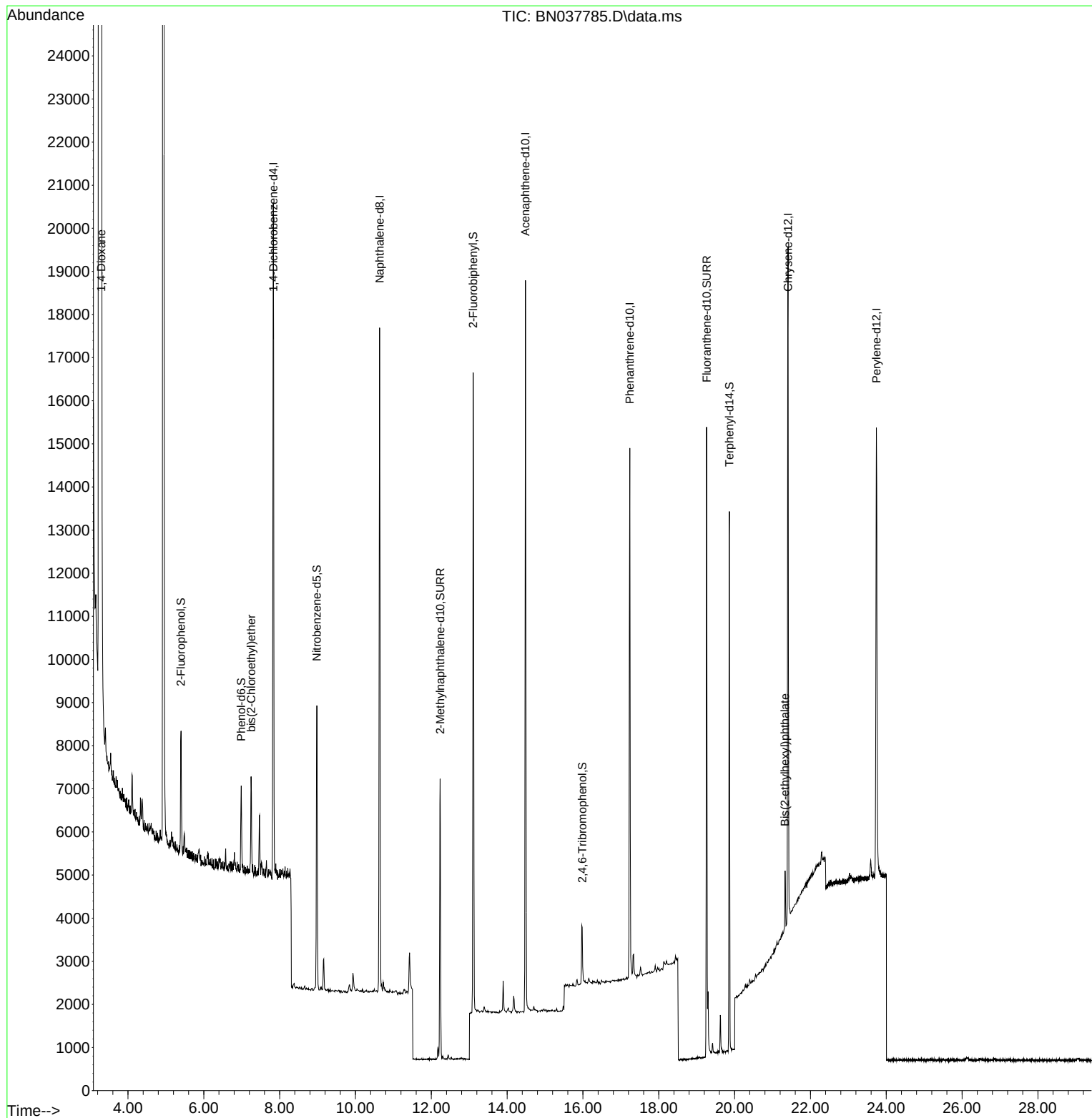
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7416	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	19792	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	9115	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	16768	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	14951	0.400	ng	0.00
35) Perylene-d12	23.741	264	14804	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2307	0.136	ng	0.00
5) Phenol-d6	6.988	99	1691	0.077	ng	0.00
8) Nitrobenzene-d5	8.982	82	5110	0.353	ng	-0.01
11) 2-Methylnaphthalene-d10	12.232	152	8502	0.324	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	987	0.415	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	13157	0.345	ng	-0.01
27) Fluoranthene-d10	19.262	212	16067	0.382	ng	0.00
31) Terphenyl-d14	19.861	244	12035	0.397	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	15980	2.069	ng	96
6) bis(2-Chloroethyl)ether	7.248	93	1596	0.081	ng	97
34) Bis(2-ethylhexyl)phtha...	21.330	149	1394	0.090	ng	# 95

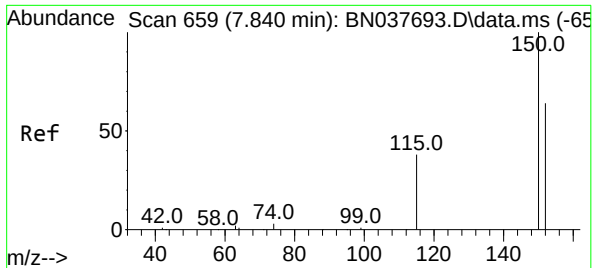
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037785.D
Acq On : 18 Sep 2025 20:02
Operator : RC/JU
Sample : Q3095-23
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE104D2-20250910

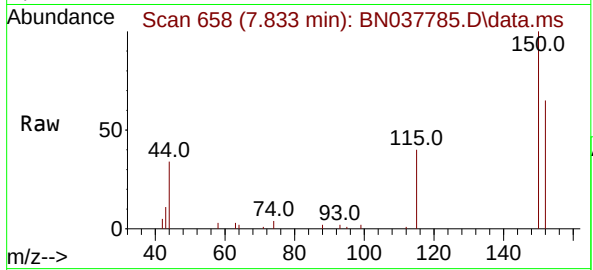
Quant Time: Sep 19 04:10:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



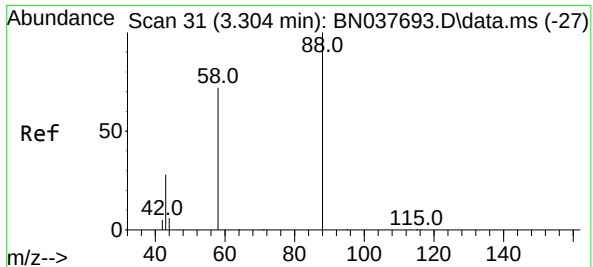
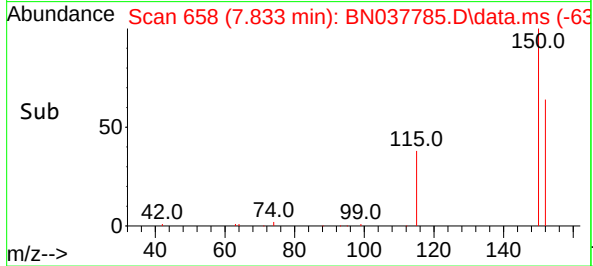
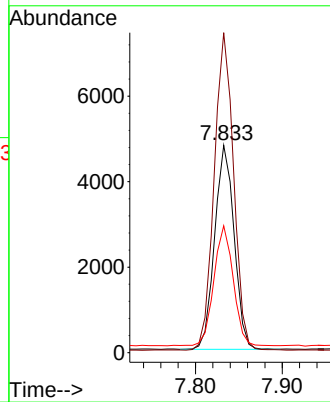


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

Instrument :
BNA_N
ClientSampleId :
RE104D2-20250910

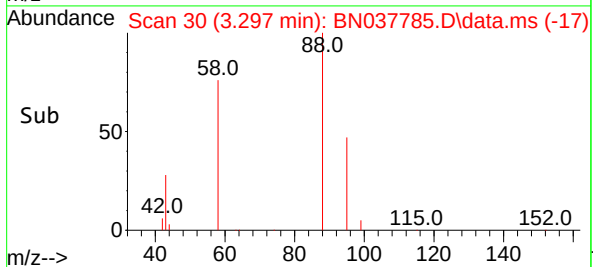
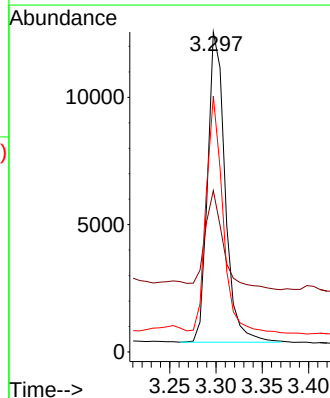
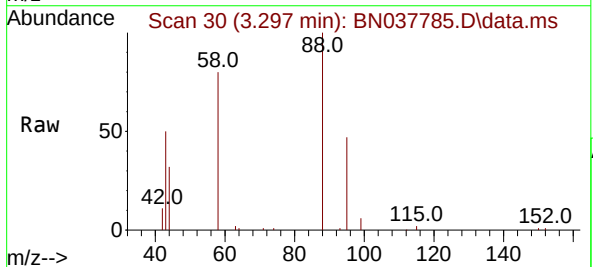


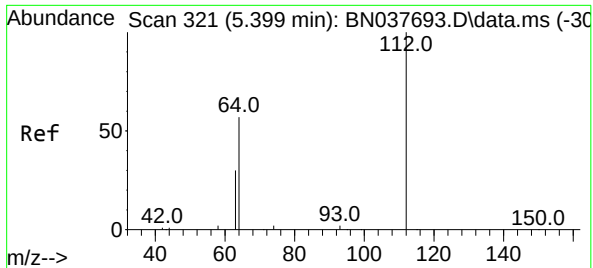
Tgt Ion:152 Resp: 7416
Ion Ratio Lower Upper
152 100
150 154.3 124.5 186.7
115 61.2 49.2 73.8



#2
1,4-Dioxane
Concen: 2.069 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

Tgt Ion: 88 Resp: 15980
Ion Ratio Lower Upper
88 100
43 33.8 26.8 40.2
58 73.0 61.9 92.9

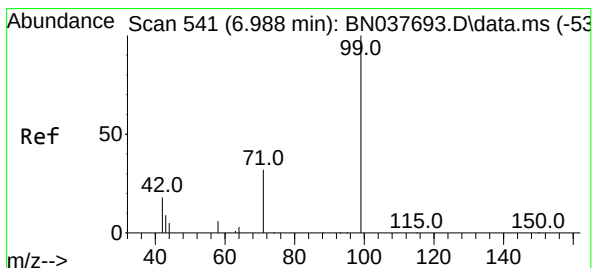
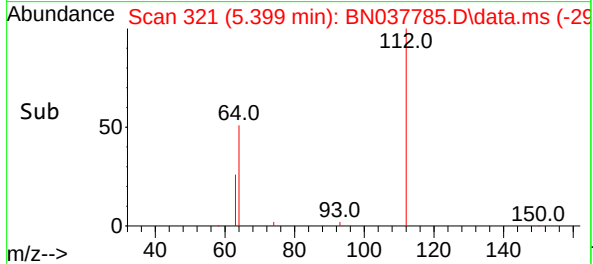
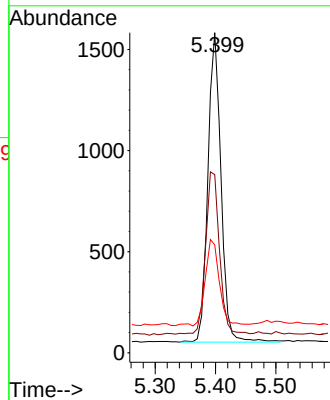
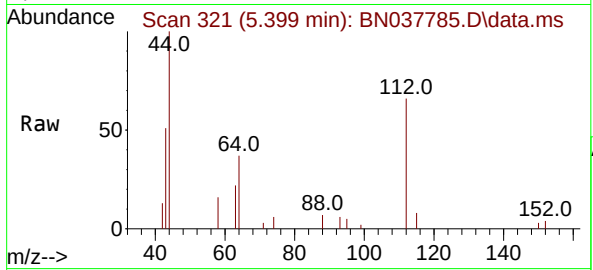




#4
2-Fluorophenol
Concen: 0.136 ng
RT: 5.399 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

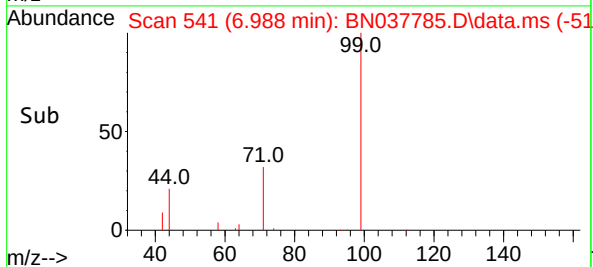
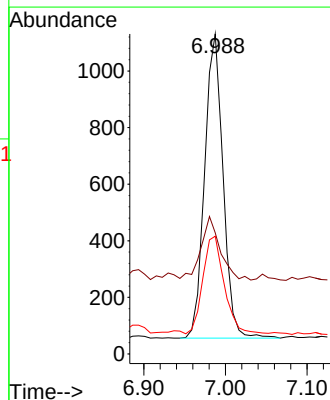
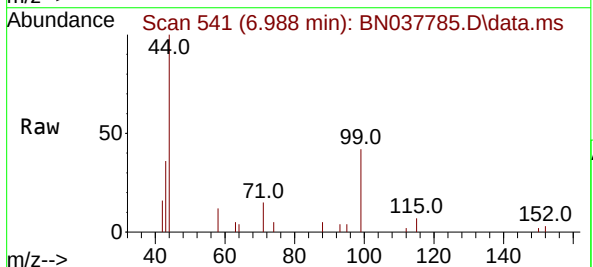
Instrument :
BNA_N
ClientSampleId :
RE104D2-20250910

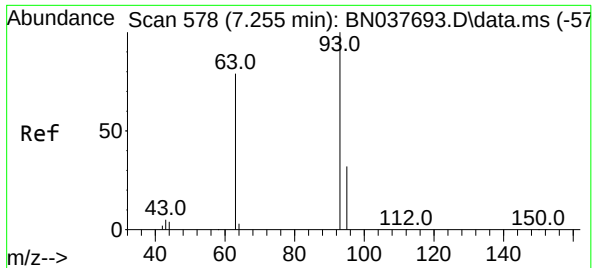
Tgt Ion:112 Resp: 2307
Ion Ratio Lower Upper
112 100
64 55.4 44.9 67.3
63 29.9 24.7 37.1



#5
Phenol-d6
Concen: 0.077 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

Tgt Ion: 99 Resp: 1691
Ion Ratio Lower Upper
99 100
42 21.7 16.6 24.8
71 37.3 26.7 40.1

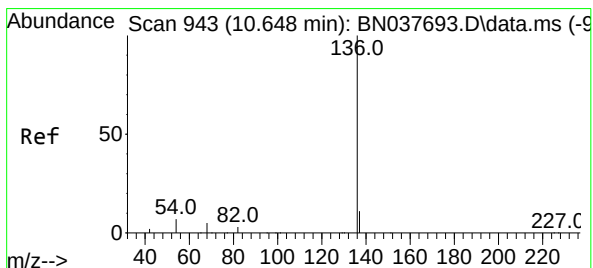
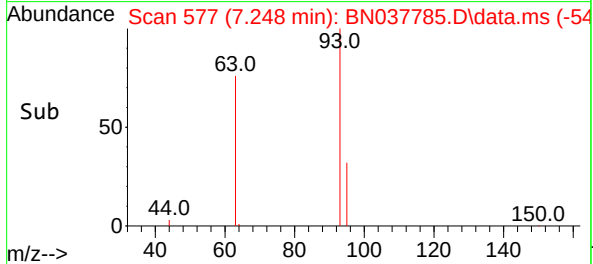
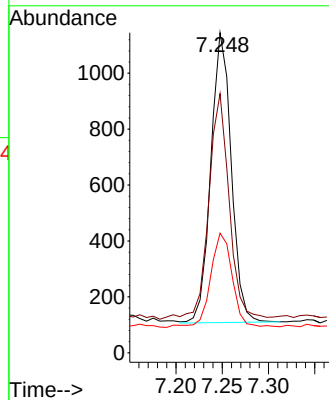
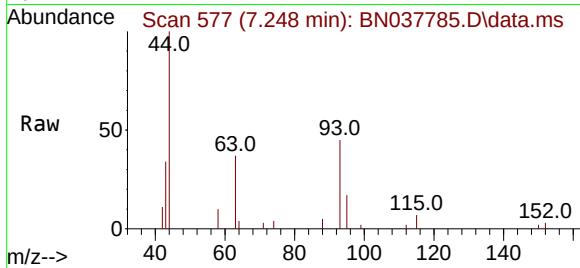




#6
bis(2-Chloroethyl)ether
Concen: 0.081 ng
RT: 7.248 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

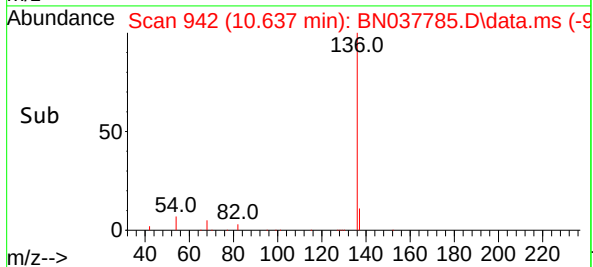
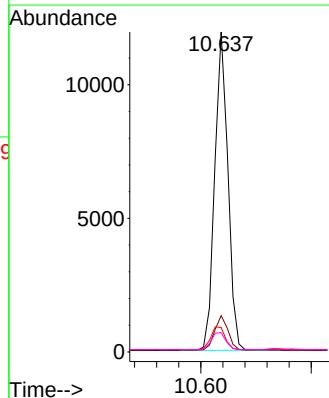
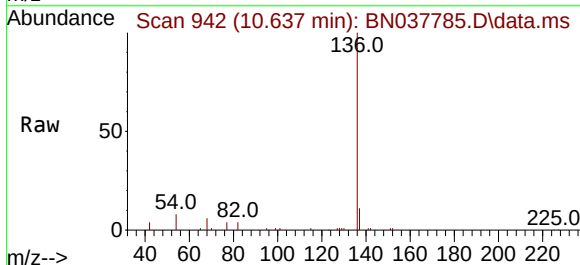
Instrument :
BNA_N
ClientSampleId :
RE104D2-20250910

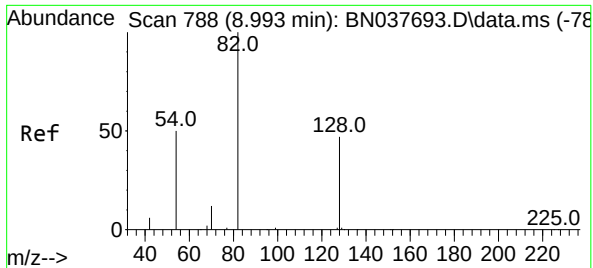
Tgt Ion	93	63	95
Resp:	1596		
Ion Ratio	100	77.9	34.6
Lower		60.6	26.0
Upper		90.8	39.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

Tgt Ion	136	137	54	68
Resp:	19792			
Ion Ratio	100	11.4	7.6	6.1
Lower		9.1	6.3	5.0
Upper		13.7	9.5	7.4

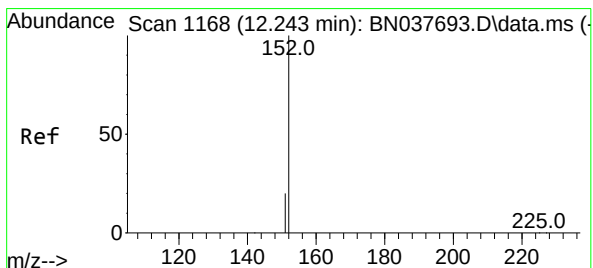
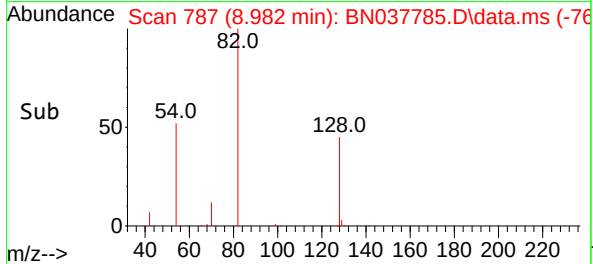
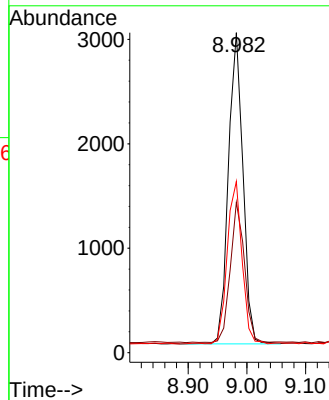
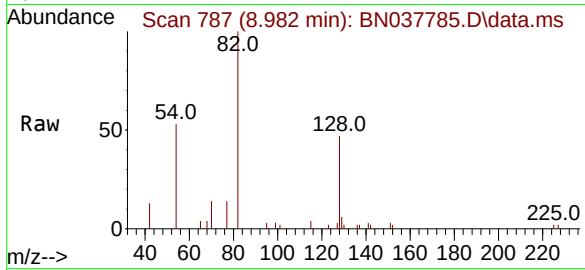




#8
Nitrobenzene-d5
Concen: 0.353 ng
RT: 8.982 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

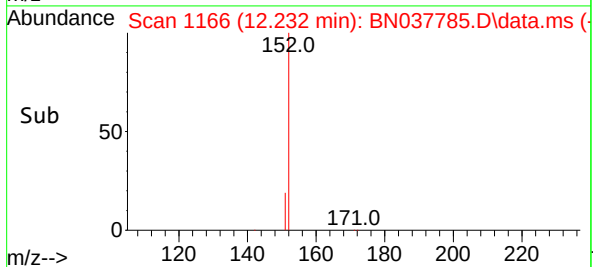
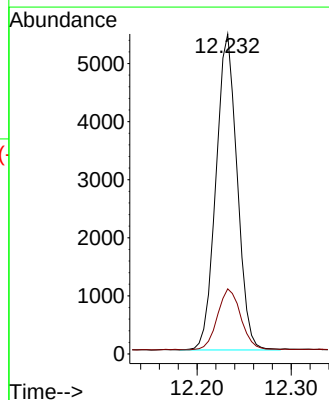
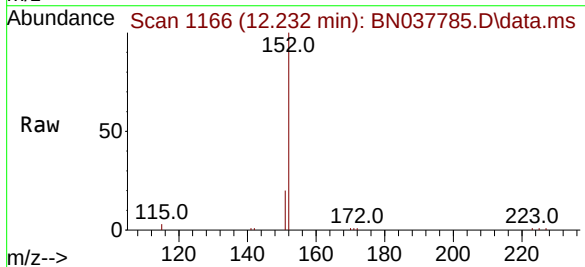
Instrument :
BNA_N
ClientSampleId :
RE104D2-20250910

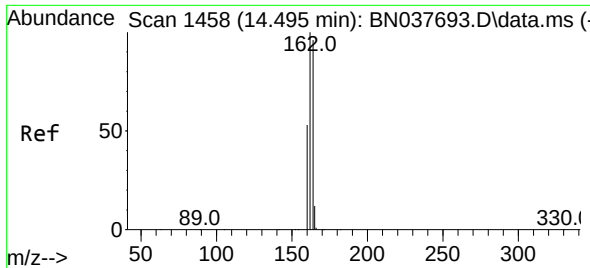
Tgt Ion:	82	Resp:	5110
Ion Ratio	Lower	Upper	
82	100		
128	47.0	38.3	57.5
54	53.5	41.4	62.2



#11
2-Methylnaphthalene-d10
Concen: 0.324 ng
RT: 12.232 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

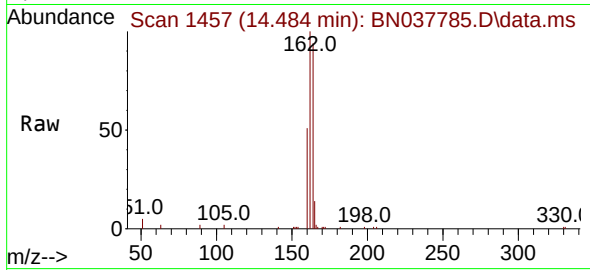
Tgt Ion:	152	Resp:	8502
Ion Ratio	Lower	Upper	
152	100		
151	21.3	17.0	25.6



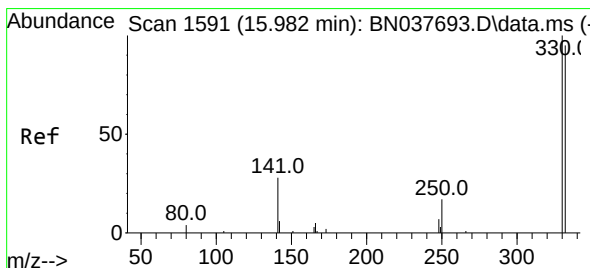
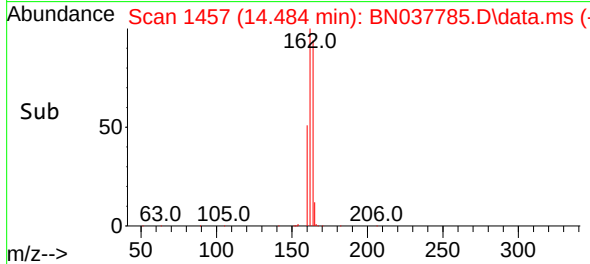
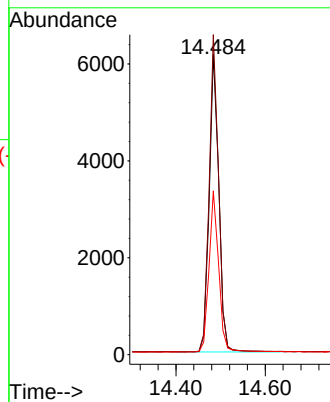


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

Instrument :
BNA_N
ClientSampleId :
RE104D2-20250910

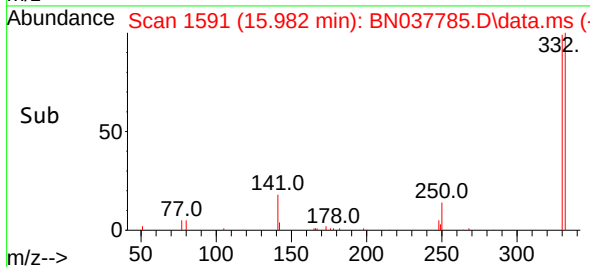
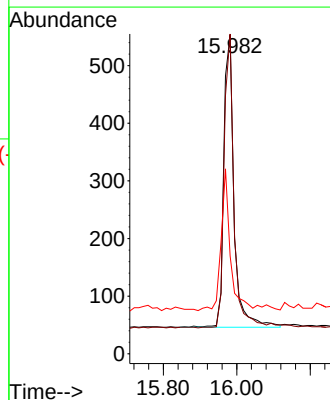
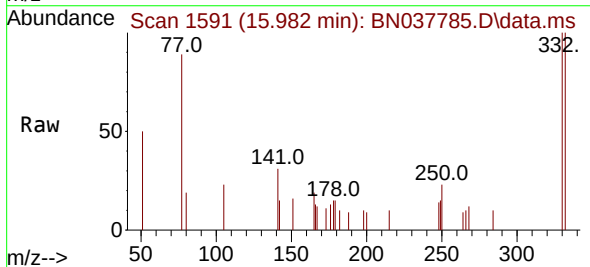


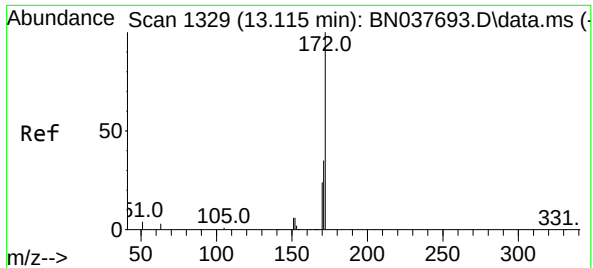
Tgt Ion:164 Resp: 9115
Ion Ratio Lower Upper
164 100
162 106.5 83.1 124.7
160 54.6 44.3 66.5



#14
2,4,6-Tribromophenol
Concen: 0.415 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

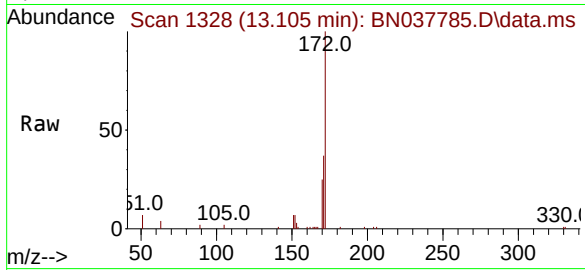
Tgt Ion:330 Resp: 987
Ion Ratio Lower Upper
330 100
332 96.3 75.3 112.9
141 43.2 35.0 52.4



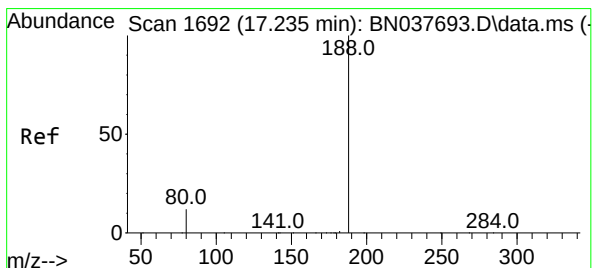
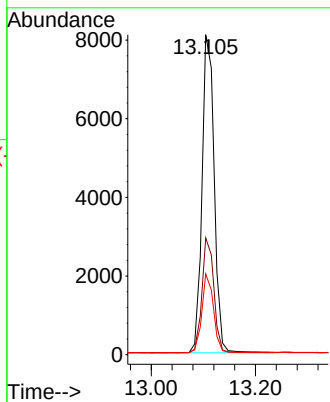
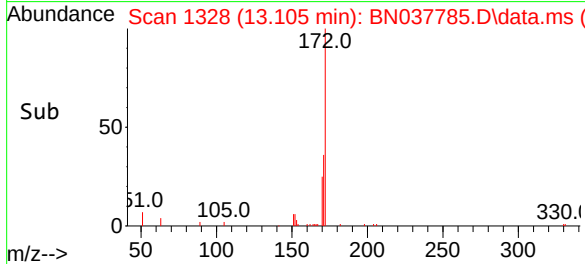


#15
2-Fluorobiphenyl
Concen: 0.345 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

Instrument :
BNA_N
ClientSampleId :
RE104D2-20250910

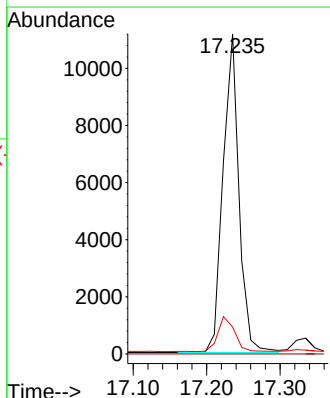
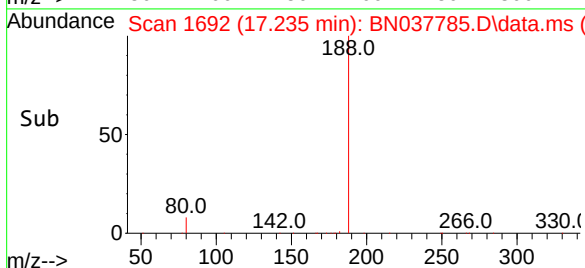
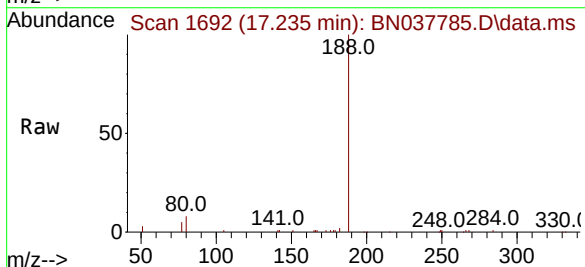


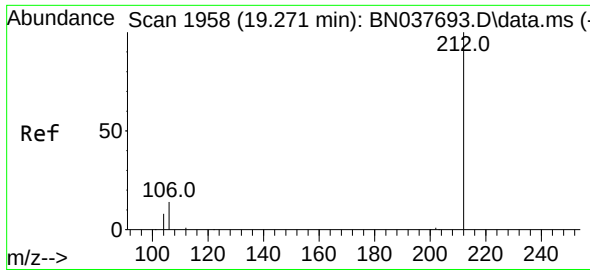
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.5	28.6	43.0
170	25.2	19.8	29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.5	10.6	15.8

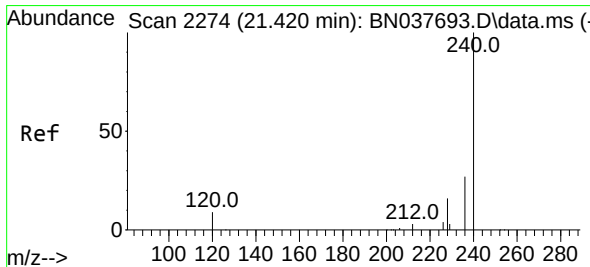
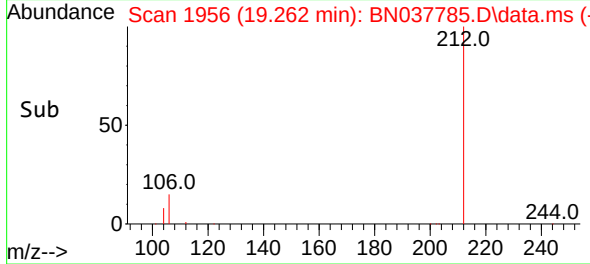
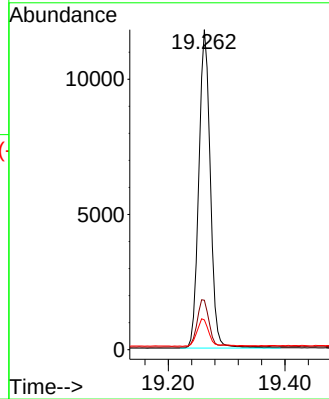
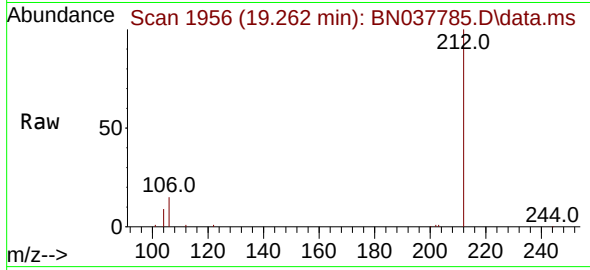




#27
Fluoranthene-d10
Concen: 0.382 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

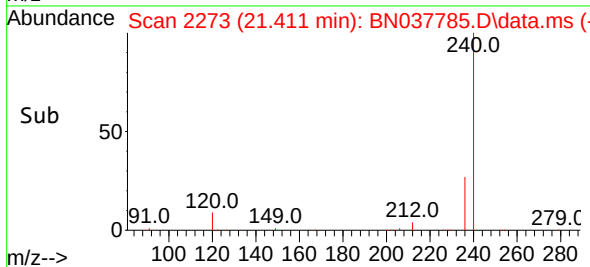
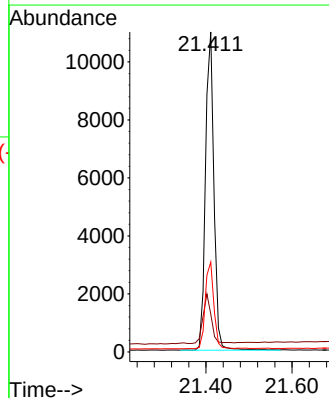
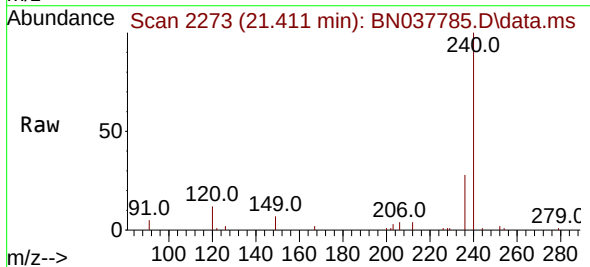
Instrument :
BNA_N
ClientSampleId :
RE104D2-20250910

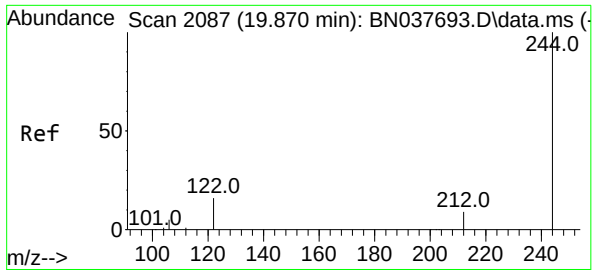
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.4	12.2	18.2
104	8.7	6.9	10.3



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.8	9.2	13.8
236	28.1	22.6	33.8

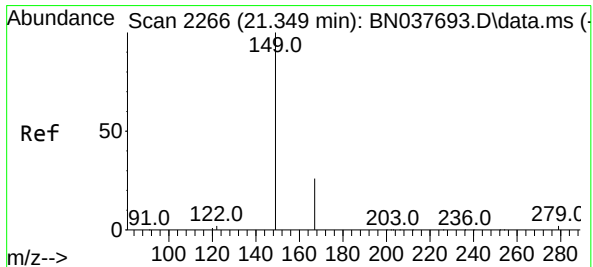
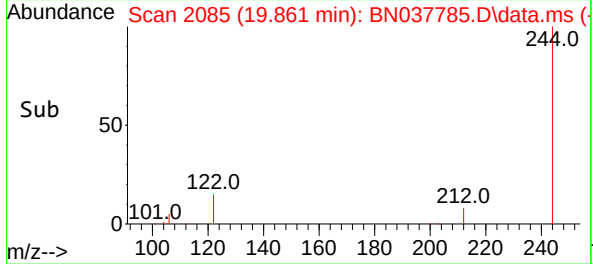
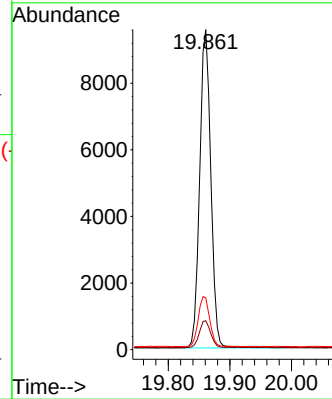
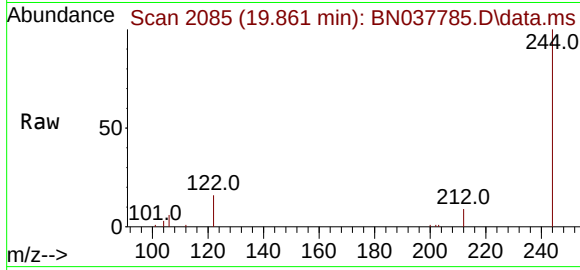




#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

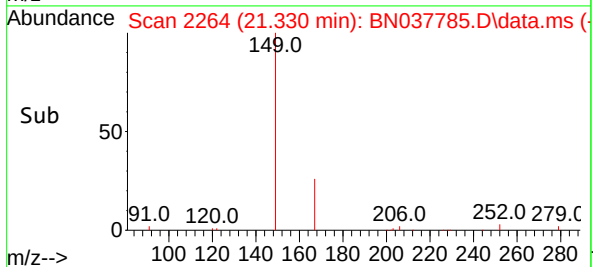
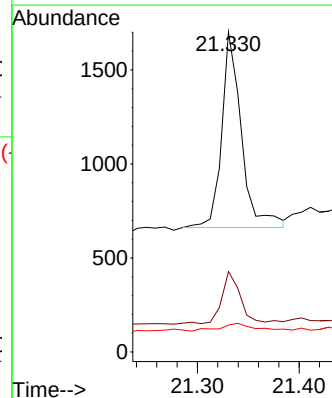
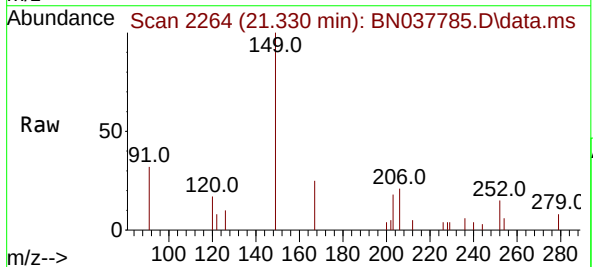
Instrument :
BNA_N
ClientSampleId :
RE104D2-20250910

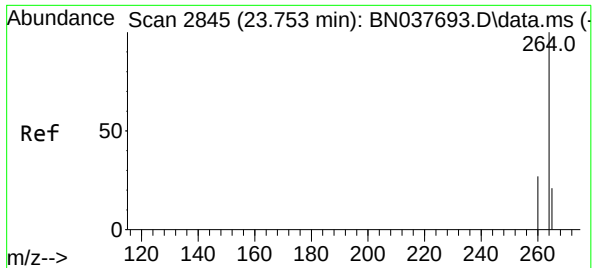
Tgt Ion:244 Resp: 12035
Ion Ratio Lower Upper
244 100
212 9.1 7.5 11.3
122 16.2 13.2 19.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.090 ng
RT: 21.330 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

Tgt Ion:149 Resp: 1394
Ion Ratio Lower Upper
149 100
167 23.9 20.8 31.2
279 7.3 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.741 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037785.D

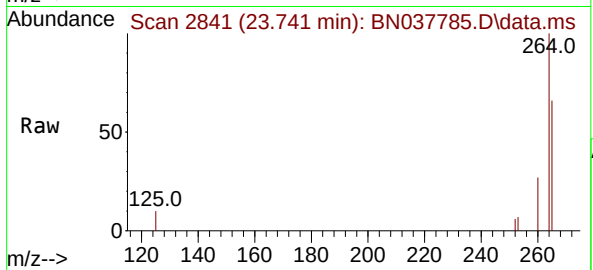
Acq: 18 Sep 2025 20:02

Instrument :

BNA_N

ClientSampleId :

RE104D2-20250910



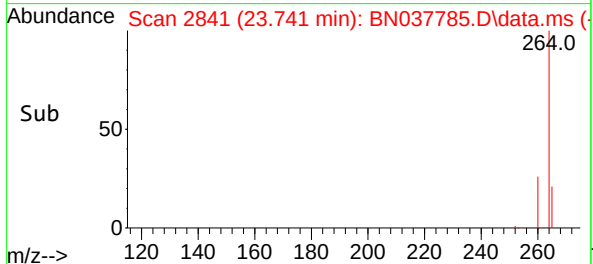
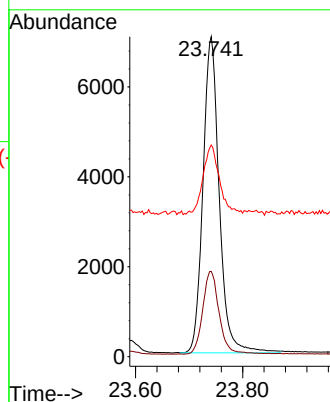
Tgt Ion:264 Resp: 14804

Ion Ratio Lower Upper

264 100

260 26.6 21.8 32.8

265 66.1 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	MW178I-20250910	SDG No.:	Q3095
Lab Sample ID:	Q3095-24	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
BN037786.D	1	09/15/25 12:00	09/18/25 20:38	PB169693

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	0.28		30 - 150		69%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		97%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7910	7.833				
1146-65-2	Naphthalene-d8	21400	10.637				
15067-26-2	Acenaphthene-d10	9550	14.484				
1517-22-2	Phenanthrene-d10	16100	17.235				
1719-03-5	Chrysene-d12	12400	21.411				
1520-96-3	Perylene-d12	12400	23.738				

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\BN091825\
 Data File : BN037786.D
 Acq On : 18 Sep 2025 20:38
 Operator : RC/JU
 Sample : Q3095-24
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW178I-20250910

Quant Time: Sep 19 04:11:15 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

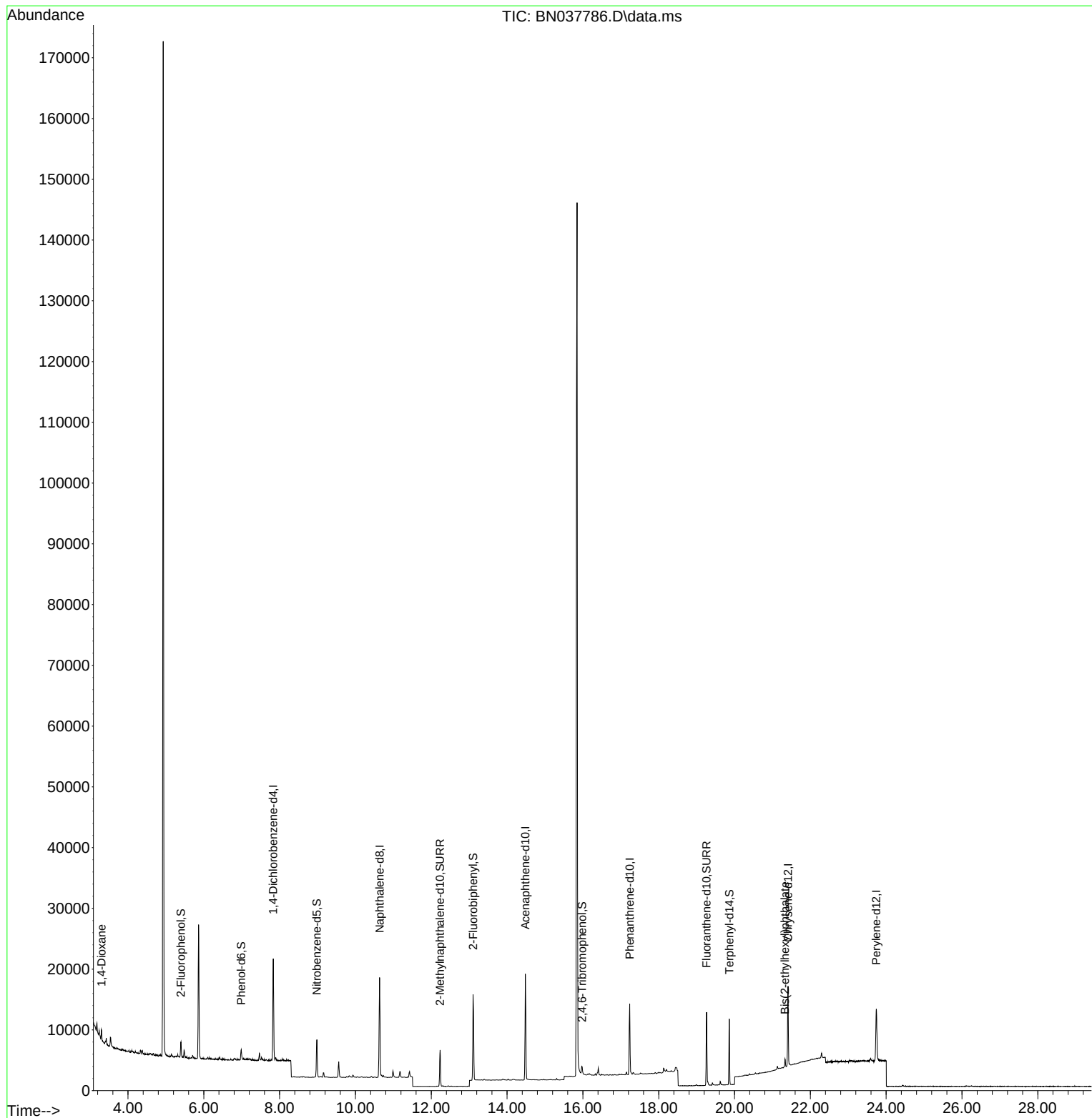
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7906	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	21432	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	9551	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	16120	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	12351	0.400	ng	0.00
35) Perylene-d12	23.738	264	12408	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2081	0.115	ng	0.00
5) Phenol-d6	6.988	99	1525	0.065	ng	0.00
8) Nitrobenzene-d5	8.982	82	4783	0.305	ng	-0.01
11) 2-Methylnaphthalene-d10	12.232	152	7810	0.275	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	898	0.360	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	12279	0.307	ng	-0.01
27) Fluoranthene-d10	19.262	212	13193	0.326	ng	0.00
31) Terphenyl-d14	19.861	244	9674	0.386	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.304	88	948	0.115	ng	# 69
34) Bis(2-ethylhexyl)phtha...	21.330	149	1447	0.113	ng	# 96

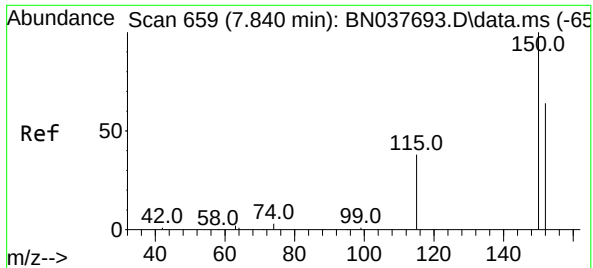
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037786.D
Acq On : 18 Sep 2025 20:38
Operator : RC/JU
Sample : Q3095-24
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW178I-20250910

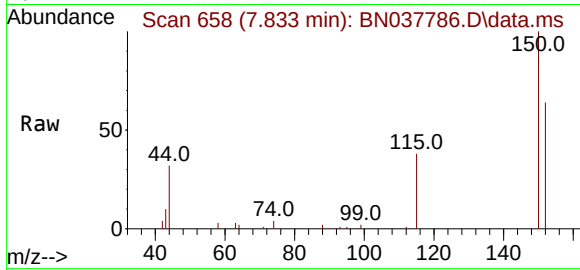
Quant Time: Sep 19 04:11:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



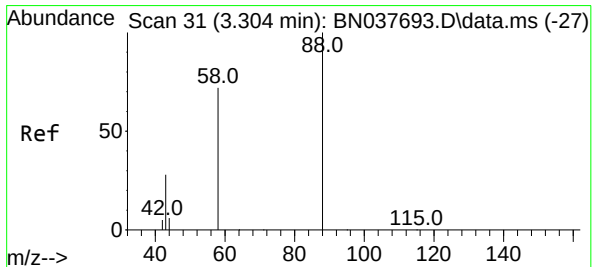
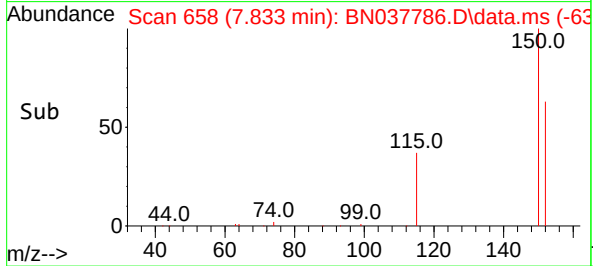
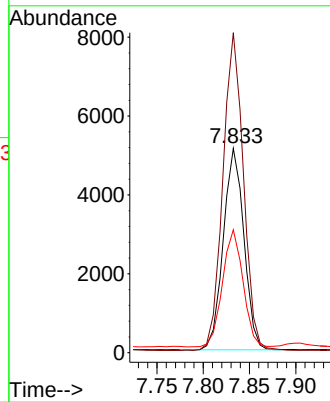


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

Instrument :
BNA_N
ClientSampleId :
MW178I-20250910

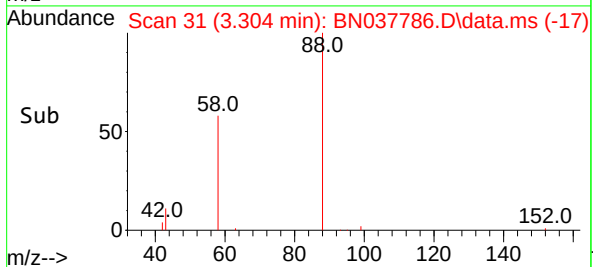
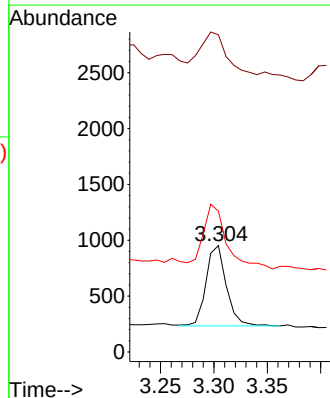
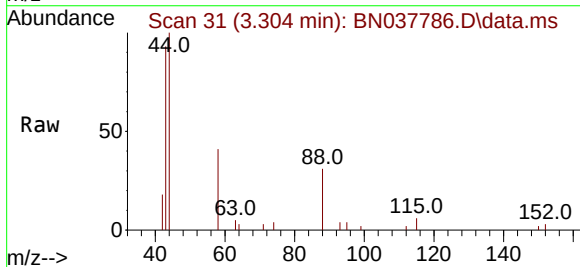


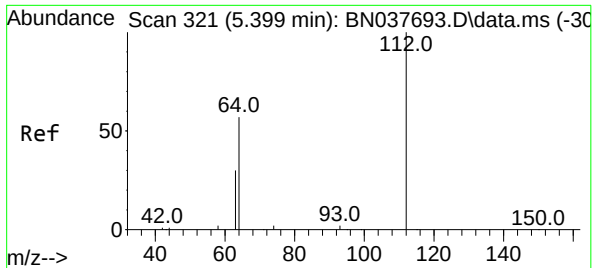
Tgt Ion:152 Resp: 7906
Ion Ratio Lower Upper
152 100
150 156.6 124.5 186.7
115 60.2 49.2 73.8



#2
1,4-Dioxane
Concen: 0.115 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

Tgt Ion: 88 Resp: 948
Ion Ratio Lower Upper
88 100
43 68.2 26.8 40.2#
58 92.9 61.9 92.9#

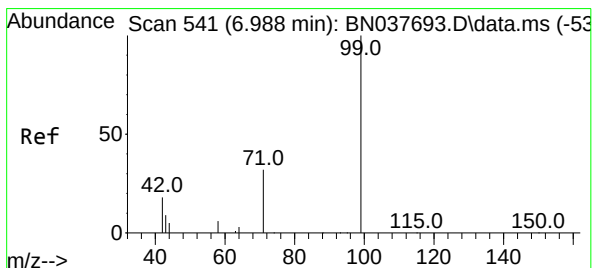
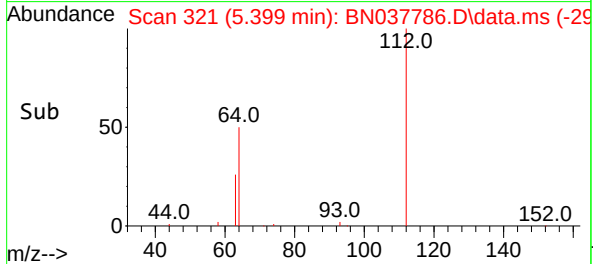
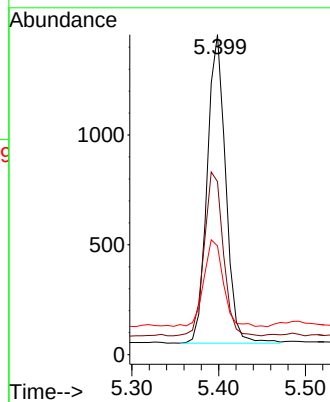
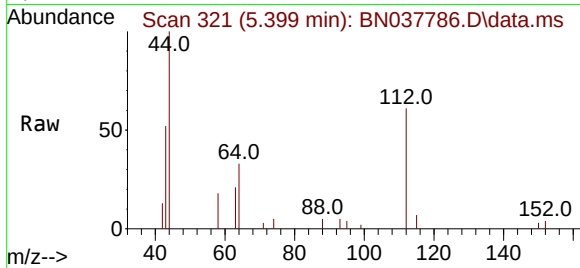




#4
2-Fluorophenol
Concen: 0.115 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

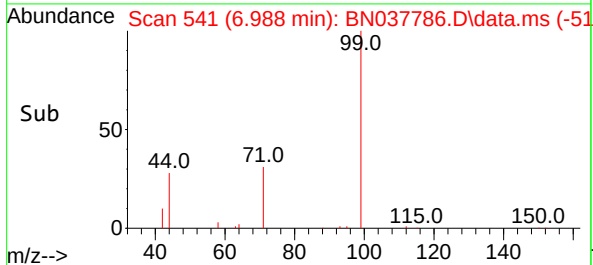
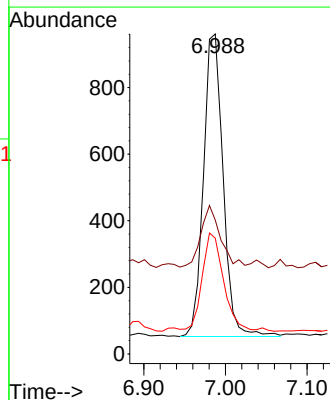
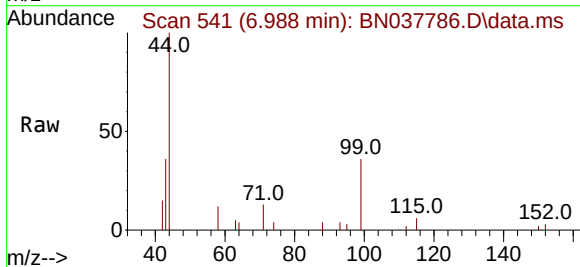
Instrument :
BNA_N
ClientSampleId :
MW178I-20250910

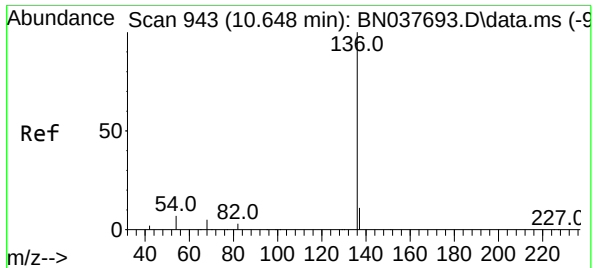
Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.4	44.9	67.3
63	29.7	24.7	37.1



#5
Phenol-d6
Concen: 0.065 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.5	16.6	24.8
71	36.1	26.7	40.1

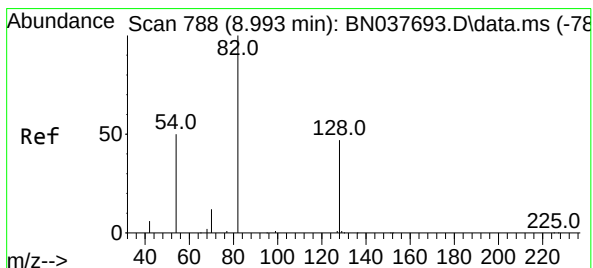
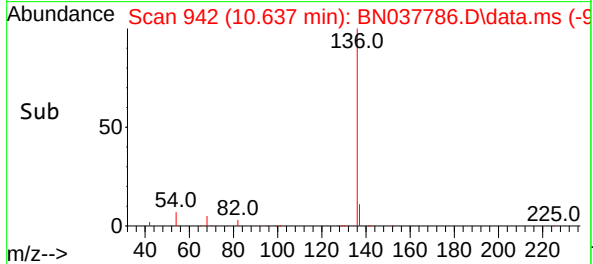
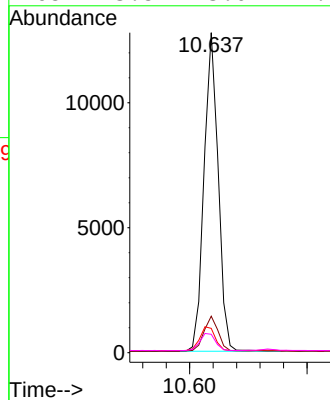
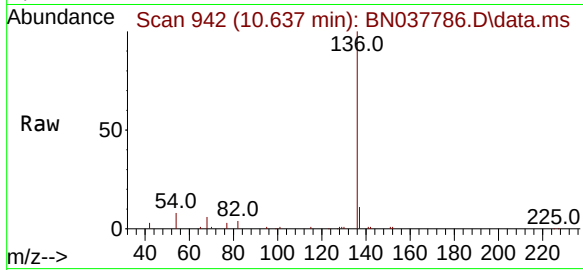




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

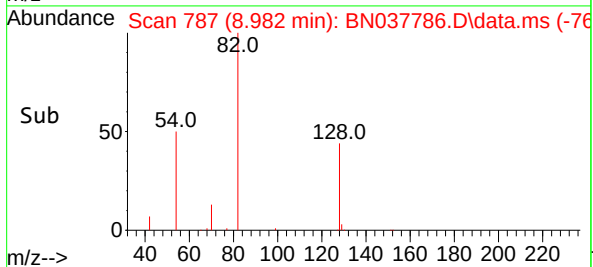
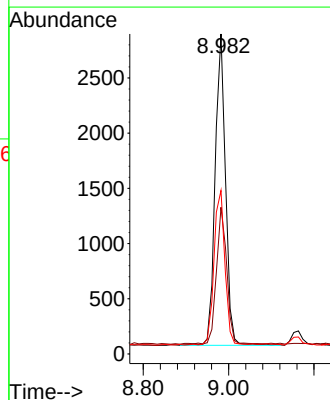
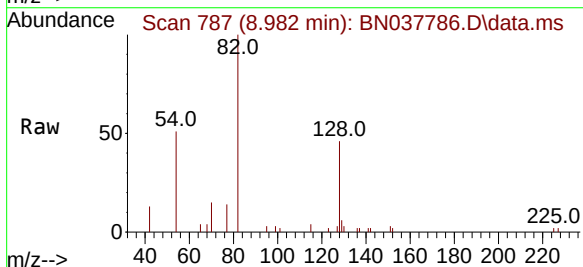
Instrument :
BNA_N
ClientSampleId :
MW178I-20250910

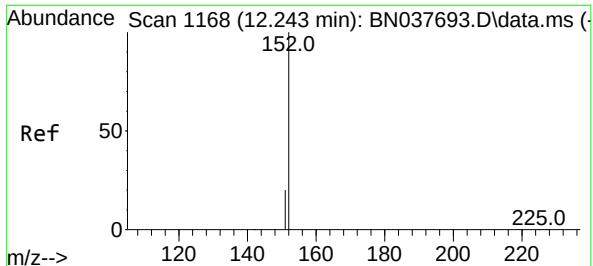
Tgt Ion:	136	Resp:	21432
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	7.6	6.3	9.5
68	5.8	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.305 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

Tgt Ion:	82	Resp:	4783
Ion	Ratio	Lower	Upper
82	100		
128	45.8	38.3	57.5
54	51.1	41.4	62.2

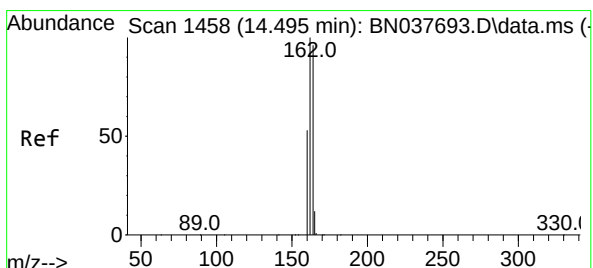
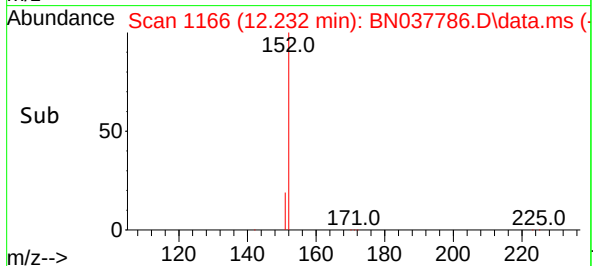
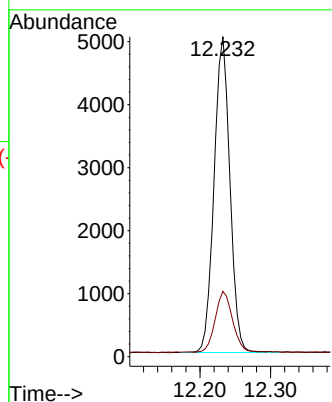
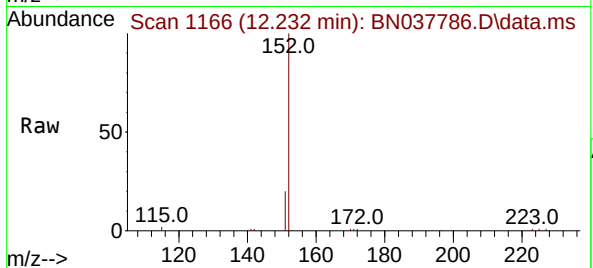




#11
2-Methylnaphthalene-d10
Concen: 0.275 ng
RT: 12.232 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

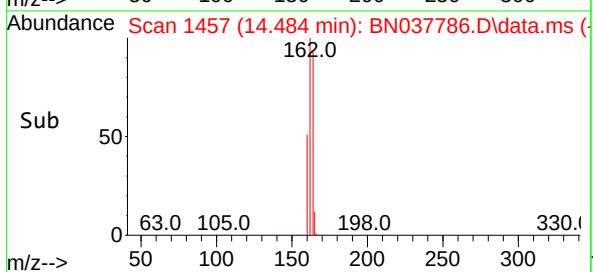
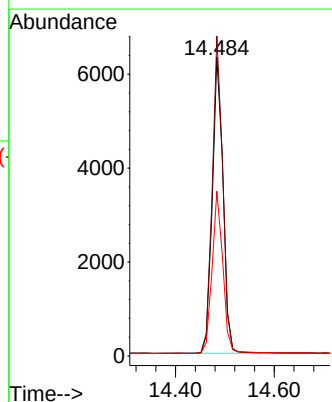
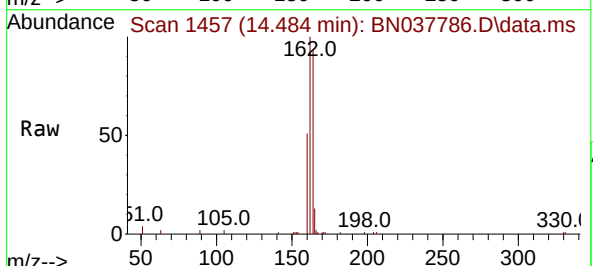
Instrument :
BNA_N
ClientSampleId :
MW178I-20250910

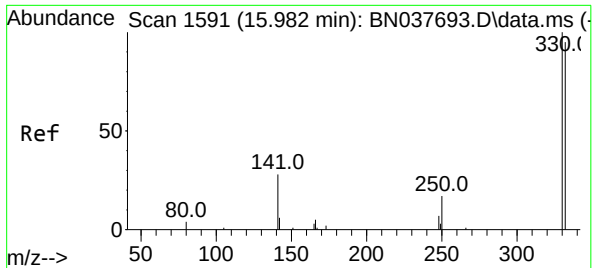
Tgt Ion:152 Resp: 7810
Ion Ratio Lower Upper
152 100
151 21.1 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

Tgt Ion:164 Resp: 9551
Ion Ratio Lower Upper
164 100
162 107.1 83.1 124.7
160 55.1 44.3 66.5

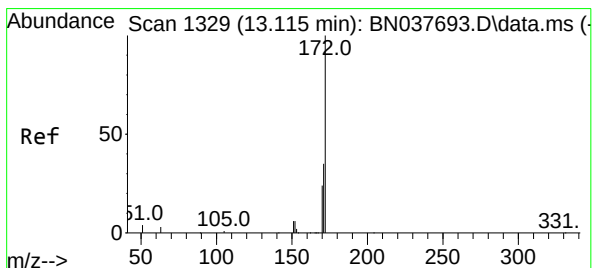
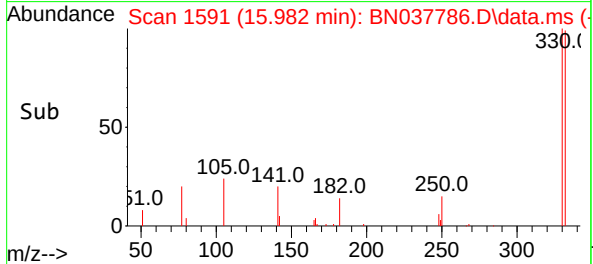
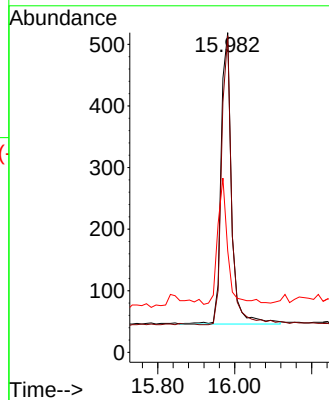
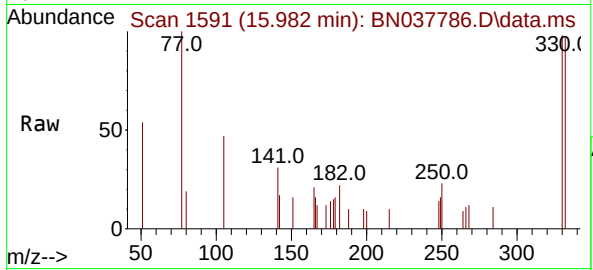




#14
2,4,6-Tribromophenol
Concen: 0.360 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

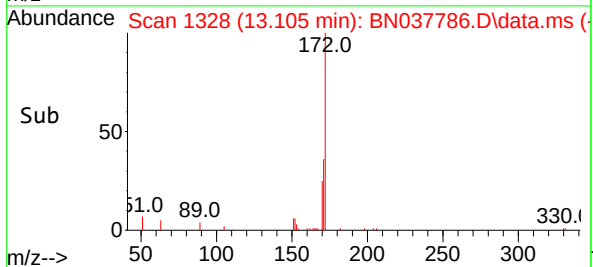
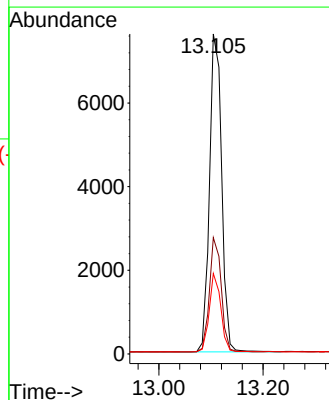
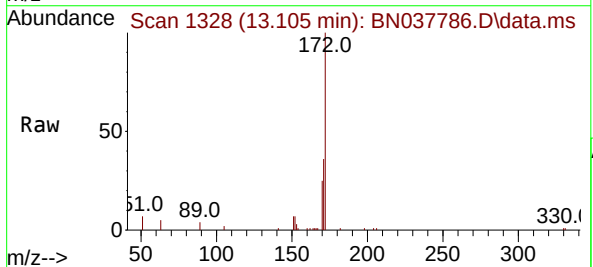
Instrument :
BNA_N
ClientSampleId :
MW178I-20250910

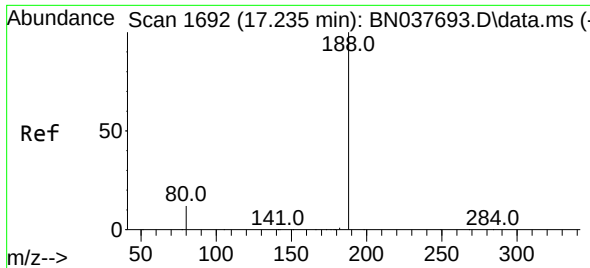
Tgt Ion	330	Resp	898
Ion Ratio	Lower	Upper	
330	100		
332	94.7	75.3	112.9
141	42.0	35.0	52.4



#15
2-Fluorobiphenyl
Concen: 0.307 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

Tgt Ion	172	Resp	12279
Ion Ratio	Lower	Upper	
172	100		
171	36.3	28.6	43.0
170	25.1	19.8	29.8

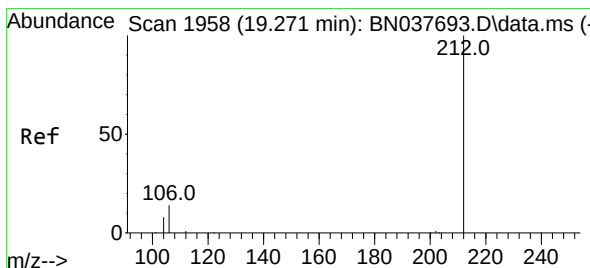
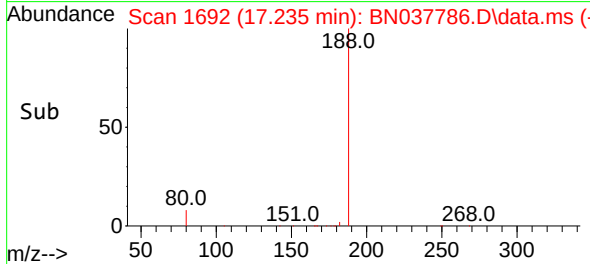
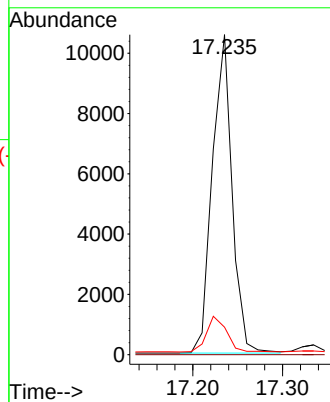
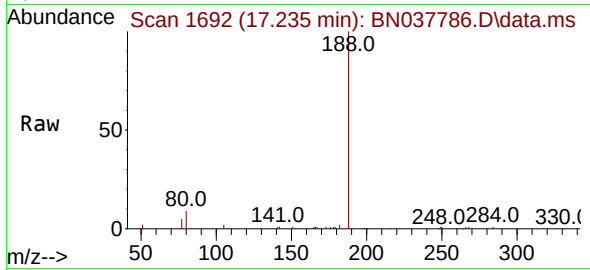




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

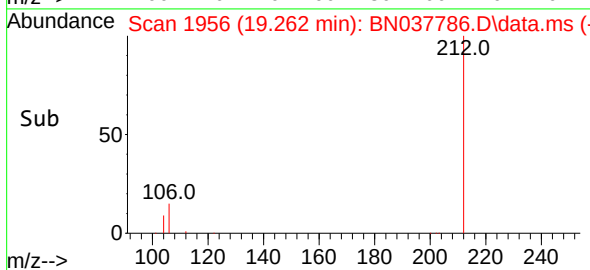
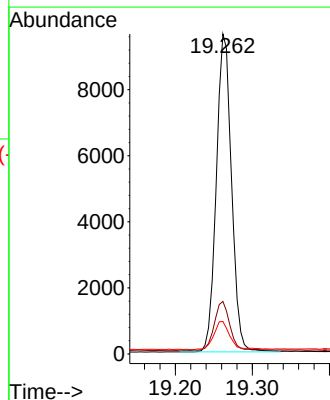
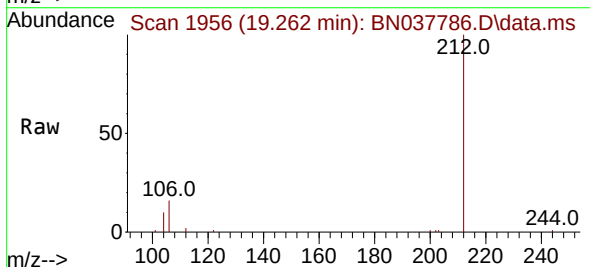
Instrument :
BNA_N
ClientSampleId :
MW178I-20250910

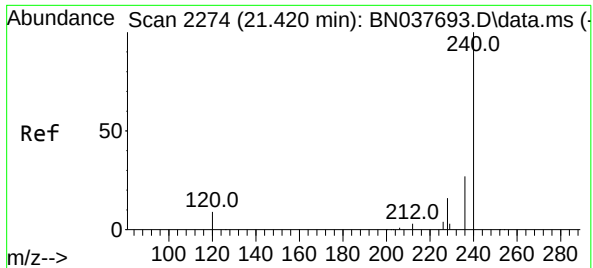
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.6	10.6	15.8



#27
Fluoranthene-d10
Concen: 0.326 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.010 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.9	12.2	18.2
104	9.1	6.9	10.3

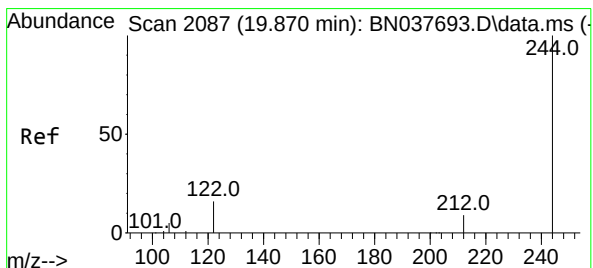
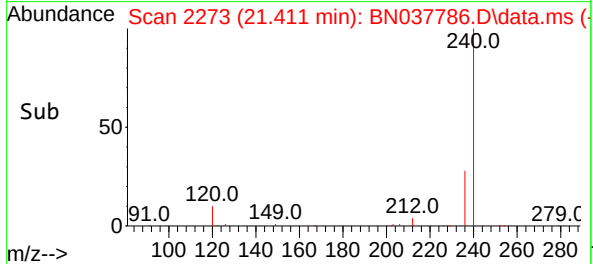
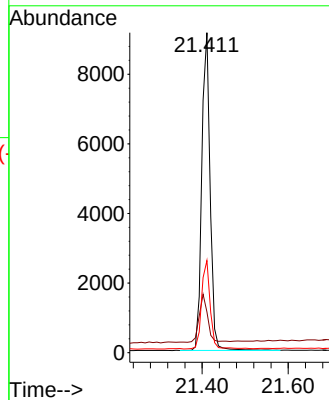
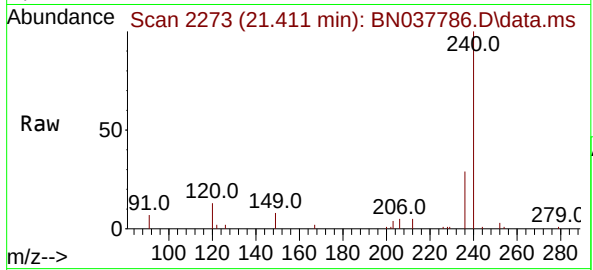




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

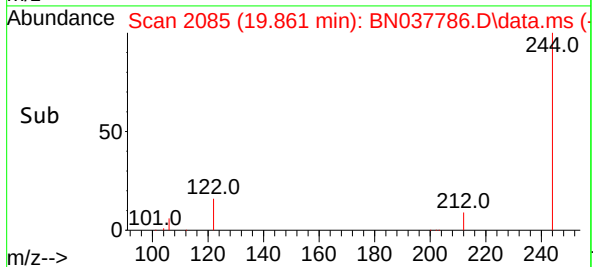
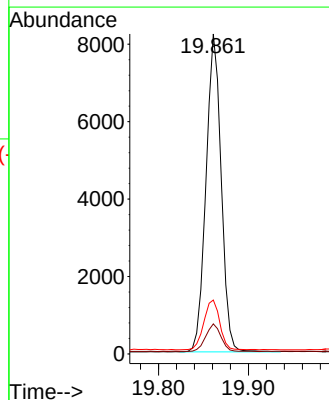
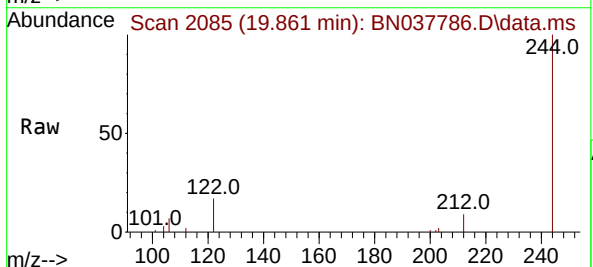
Instrument :
BNA_N
ClientSampleId :
MW178I-20250910

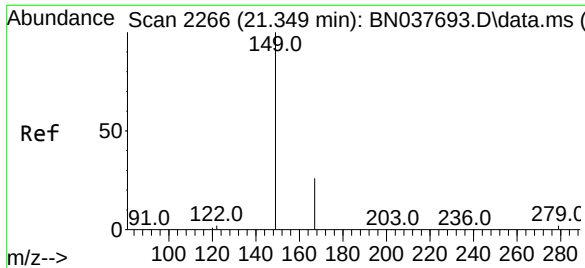
Tgt Ion:240 Resp: 12351
Ion Ratio Lower Upper
240 100
120 12.7 9.2 13.8
236 28.8 22.6 33.8



#31
Terphenyl-d14
Concen: 0.386 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.010 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

Tgt Ion:244 Resp: 9674
Ion Ratio Lower Upper
244 100
212 9.4 7.5 11.3
122 16.8 13.2 19.8

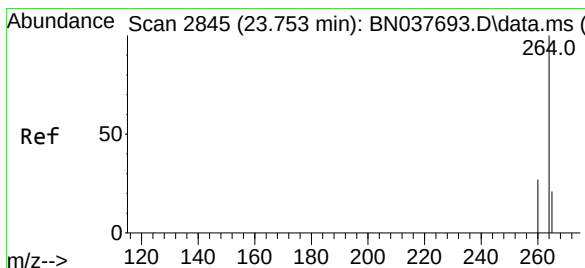
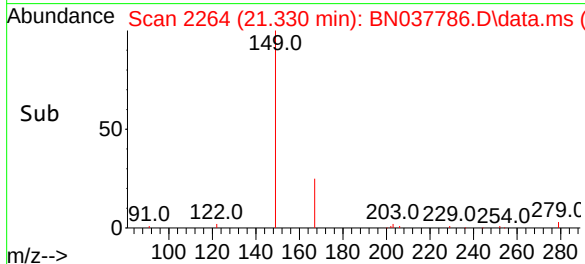
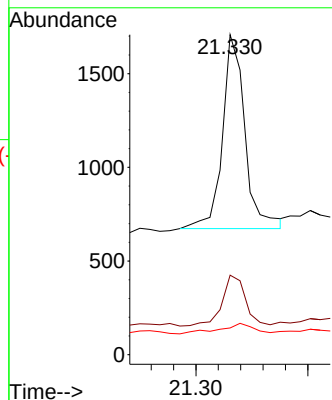
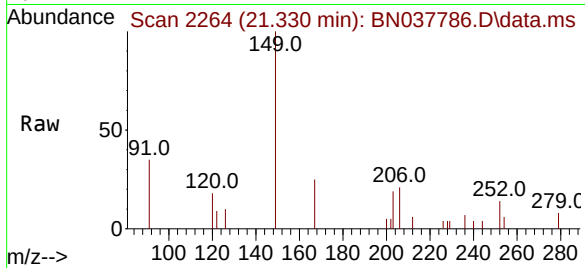




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.113 ng
RT: 21.330 min Scan# 2134
Delta R.T. -0.018 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

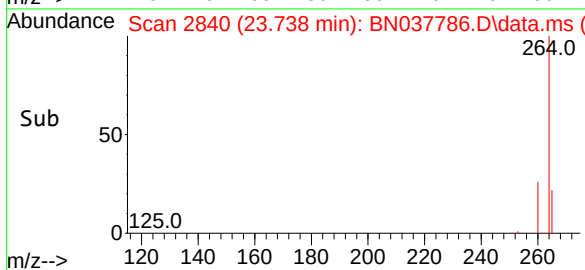
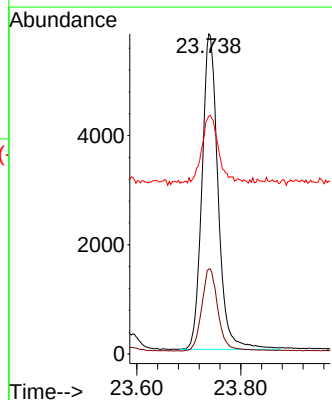
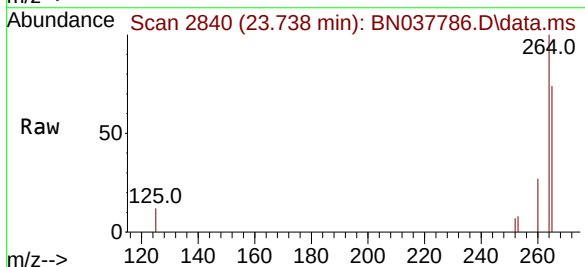
Instrument :
BNA_N
ClientSampleId :
MW178I-20250910

Tgt Ion:149 Resp: 1447
Ion Ratio Lower Upper
149 100
167 27.2 20.8 31.2
279 8.2 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.738 min Scan# 2840
Delta R.T. -0.015 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

Tgt Ion:264 Resp: 12408
Ion Ratio Lower Upper
264 100
260 26.5 21.8 32.8
265 74.3 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	09/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/12/25
Client Sample ID:	DUP02-20250910		SDG No.:	Q3095
Lab Sample ID:	Q3095-25		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
BN037787.D	1	09/15/25 12:00	09/18/25 21:14	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.40		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		84%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		108%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8070	7.833				
1146-65-2	Naphthalene-d8	22000	10.637				
15067-26-2	Acenaphthene-d10	10100	14.484				
1517-22-2	Phenanthrene-d10	17200	17.235				
1719-03-5	Chrysene-d12	12300	21.411				
1520-96-3	Perylene-d12	12000	23.738				

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\BN091825\
 Data File : BN037787.D
 Acq On : 18 Sep 2025 21:14
 Operator : RC/JU
 Sample : Q3095-25
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 DUP02-20250910

Quant Time: Sep 19 04:11:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

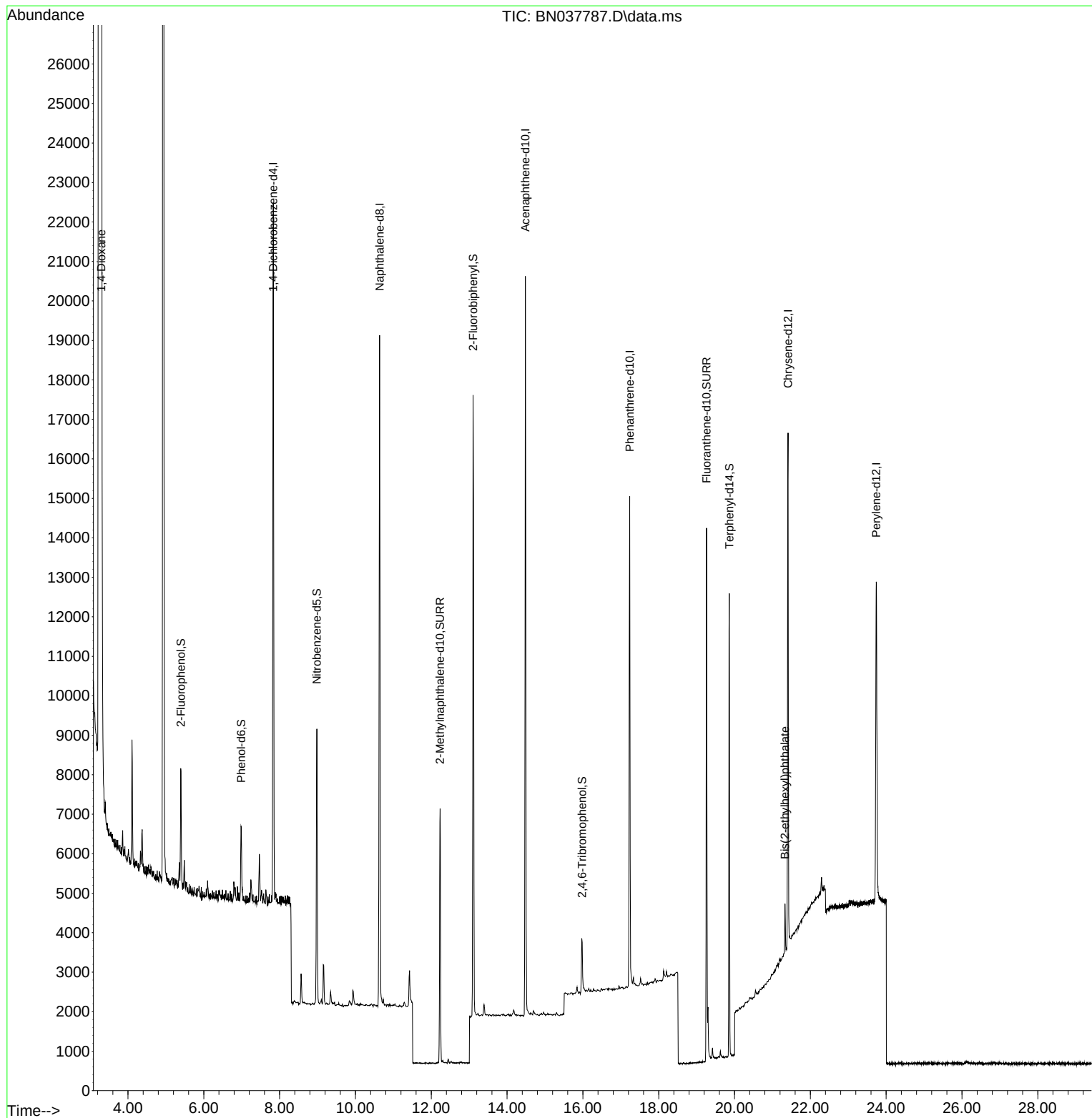
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	8067	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	22034	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	10108	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	17248	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	12319	0.400	ng	0.00
35) Perylene-d12	23.738	264	12006	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2470	0.133	ng	0.00
5) Phenol-d6	6.988	99	1800	0.075	ng	0.00
8) Nitrobenzene-d5	8.982	82	5355	0.332	ng	-0.01
11) 2-Methylnaphthalene-d10	12.232	152	8807	0.302	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	970	0.368	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	14047	0.332	ng	-0.01
27) Fluoranthene-d10	19.262	212	14644	0.338	ng	0.00
31) Terphenyl-d14	19.861	244	10800	0.432	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	27660	3.292	ng	95
34) Bis(2-ethylhexyl)phtha...	21.331	149	1286	0.101	ng	97

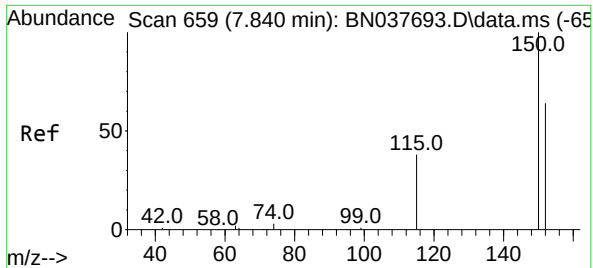
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037787.D
Acq On : 18 Sep 2025 21:14
Operator : RC/JU
Sample : Q3095-25
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP02-20250910

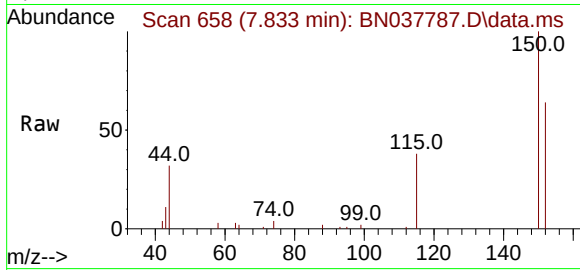
Quant Time: Sep 19 04:11:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



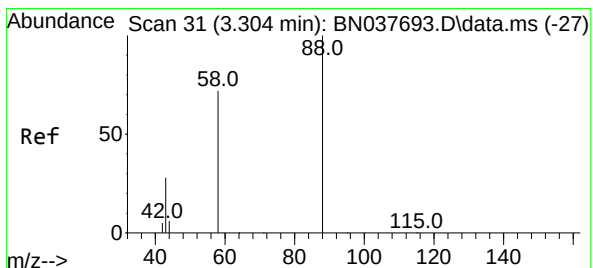
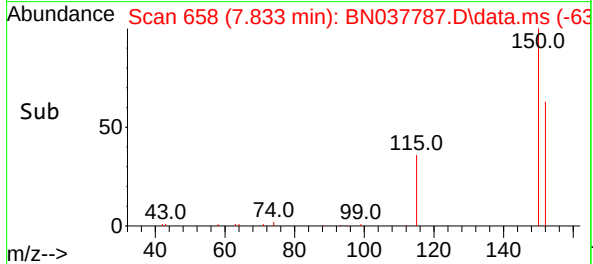
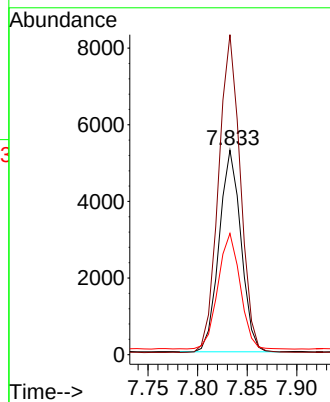


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

Instrument :
BNA_N
ClientSampleId :
DUP02-20250910

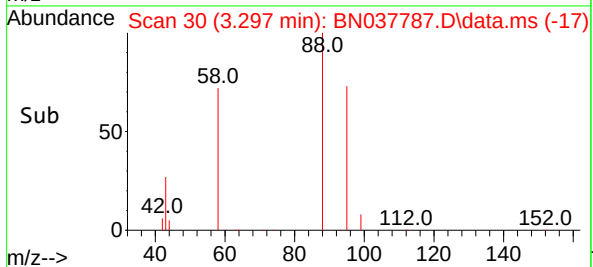
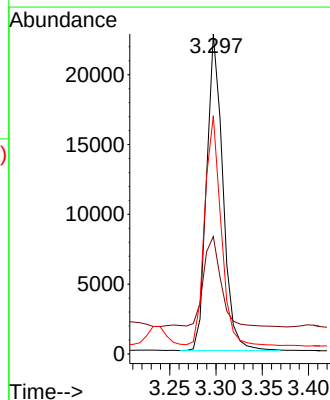
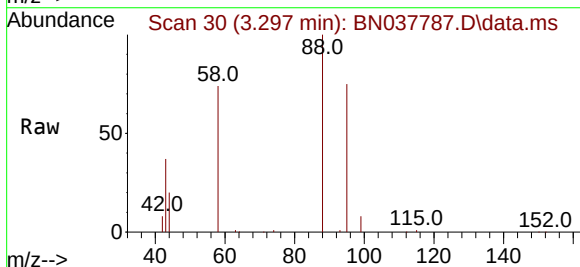


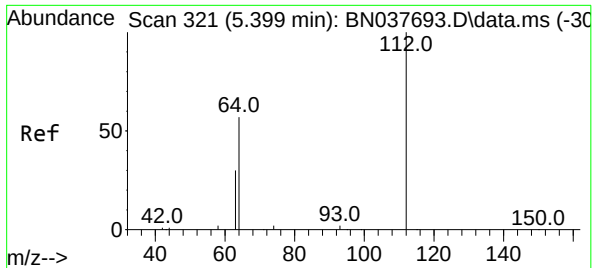
Tgt Ion:152 Resp: 8067
Ion Ratio Lower Upper
152 100
150 156.5 124.5 186.7
115 59.3 49.2 73.8



#2
1,4-Dioxane
Concen: 3.292 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

Tgt Ion: 88 Resp: 27660
Ion Ratio Lower Upper
88 100
43 30.8 26.8 40.2
58 72.9 61.9 92.9

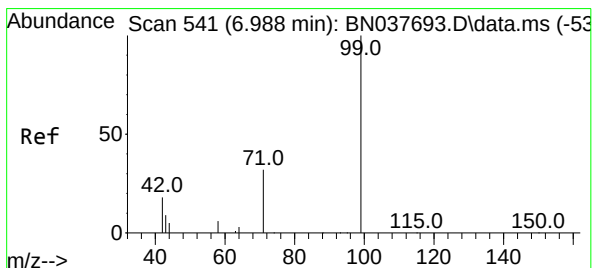
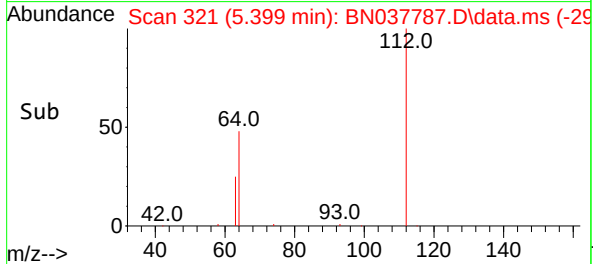
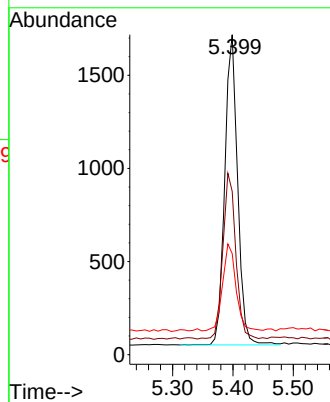
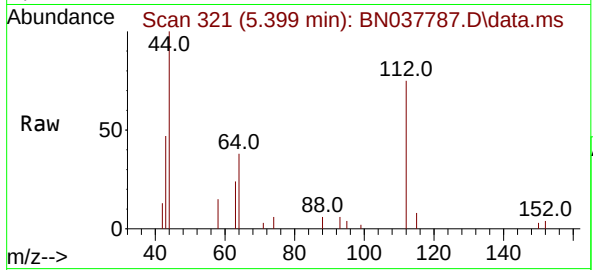




#4
2-Fluorophenol
Concen: 0.133 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

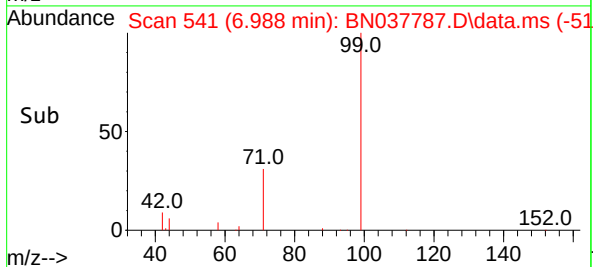
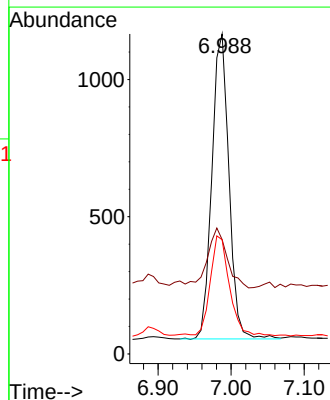
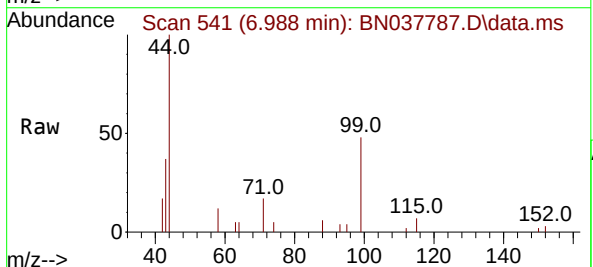
Instrument :
BNA_N
ClientSampleId :
DUP02-20250910

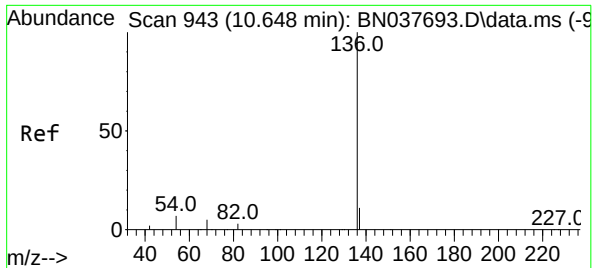
Tgt Ion:112 Resp: 2470
Ion Ratio Lower Upper
112 100
64 53.9 44.9 67.3
63 29.0 24.7 37.1



#5
Phenol-d6
Concen: 0.075 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

Tgt Ion: 99 Resp: 1800
Ion Ratio Lower Upper
99 100
42 22.3 16.6 24.8
71 37.0 26.7 40.1

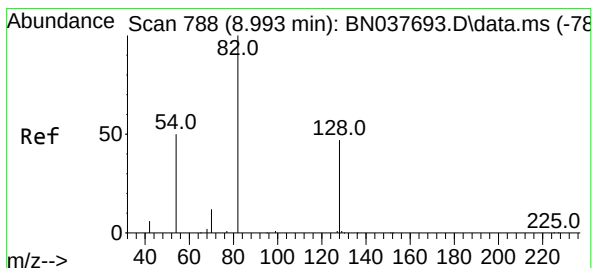
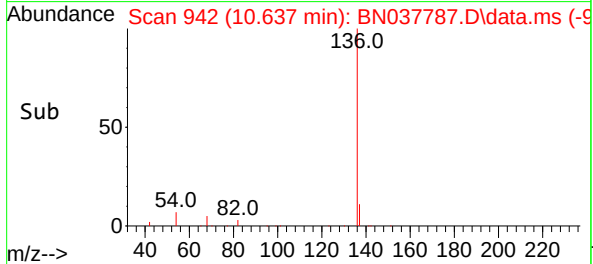
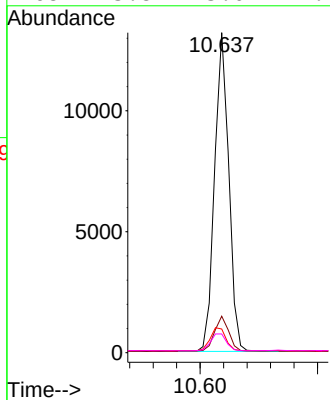
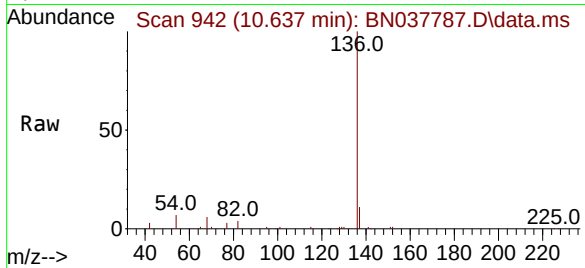




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

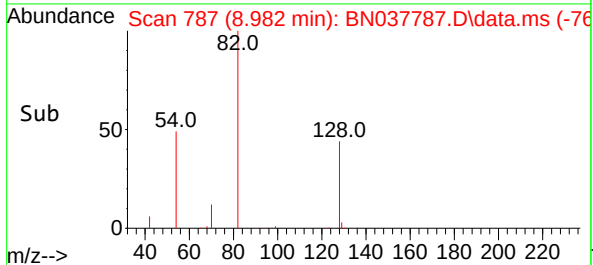
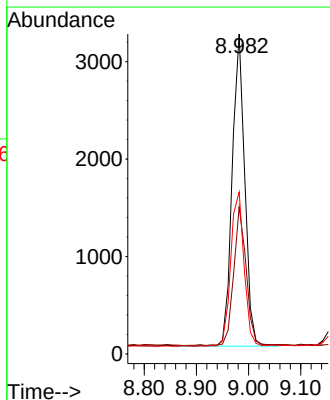
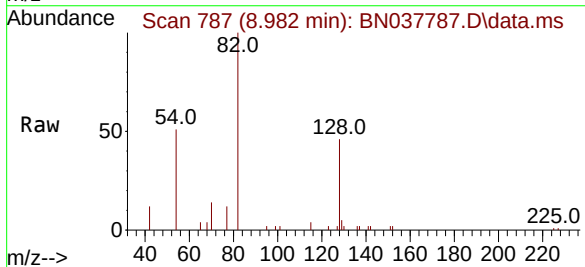
Instrument :
BNA_N
ClientSampleId :
DUP02-20250910

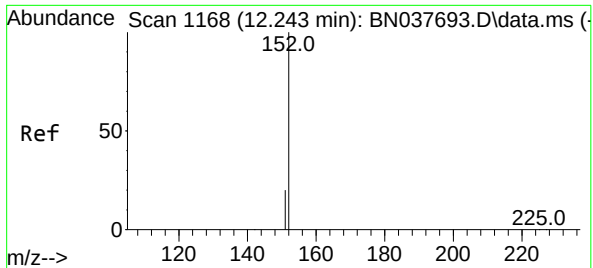
Tgt Ion:	136	Resp:	22034
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	7.4	6.3	9.5
68	5.8	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.332 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

Tgt Ion:	82	Resp:	5355
Ion	Ratio	Lower	Upper
82	100		
128	45.9	38.3	57.5
54	50.6	41.4	62.2

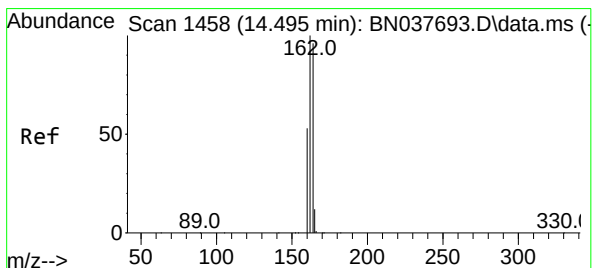
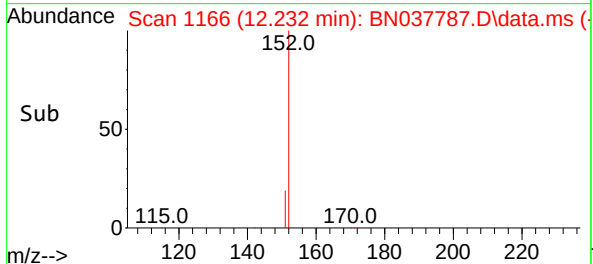
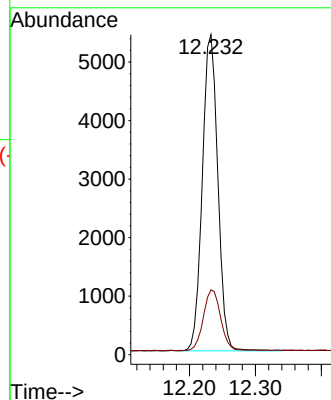
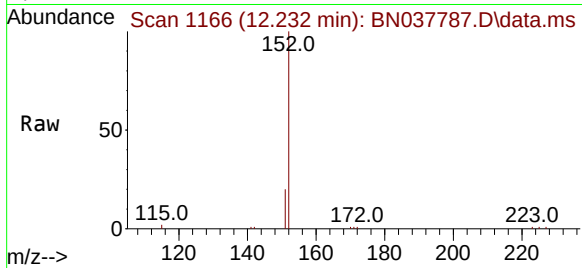




#11
2-Methylnaphthalene-d10
Concen: 0.302 ng
RT: 12.232 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

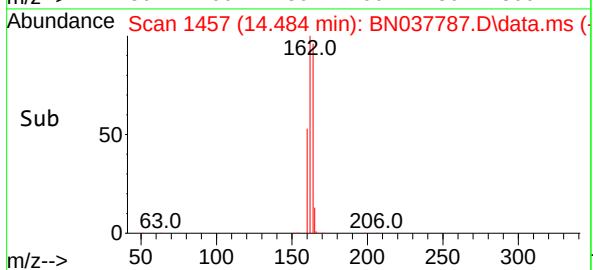
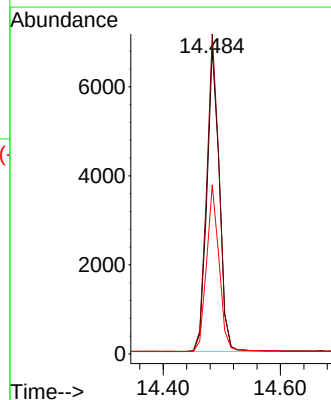
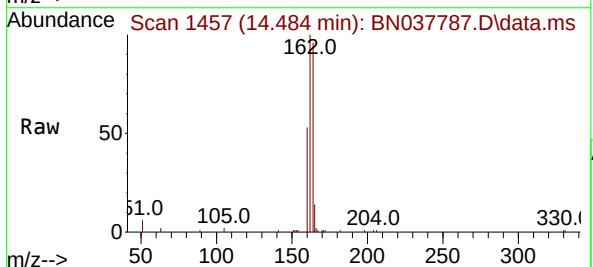
Instrument :
BNA_N
ClientSampleId :
DUP02-20250910

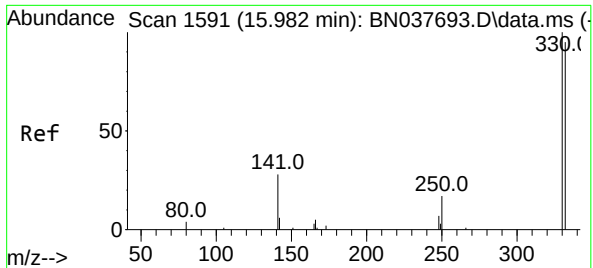
Tgt Ion:152 Resp: 8807
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

Tgt Ion:164 Resp: 10108
Ion Ratio Lower Upper
164 100
162 104.5 83.1 124.7
160 55.2 44.3 66.5

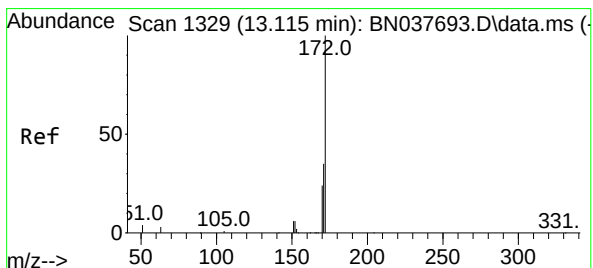
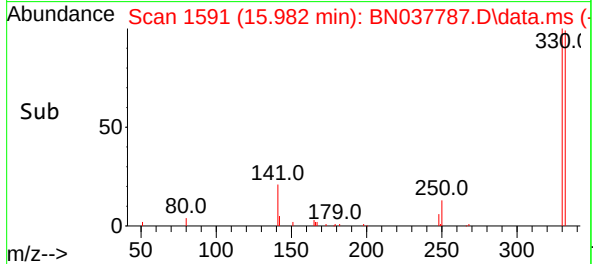
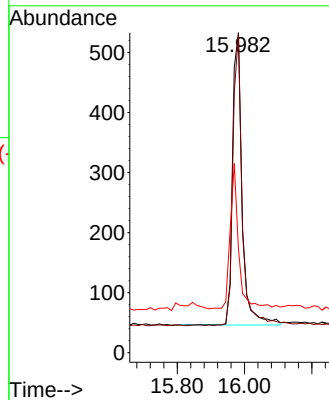
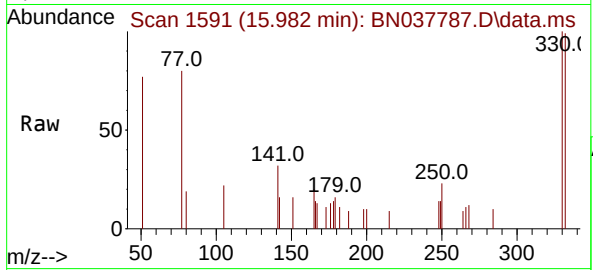




#14
2,4,6-Tribromophenol
Concen: 0.368 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

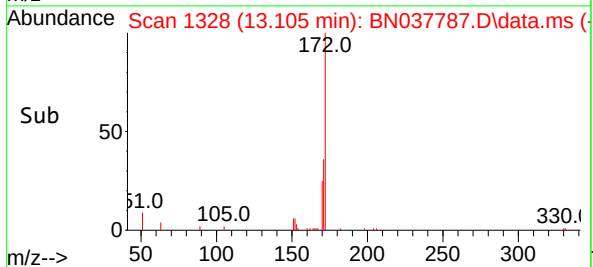
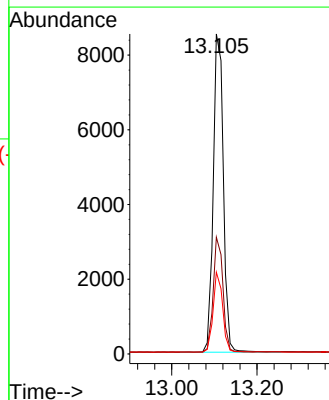
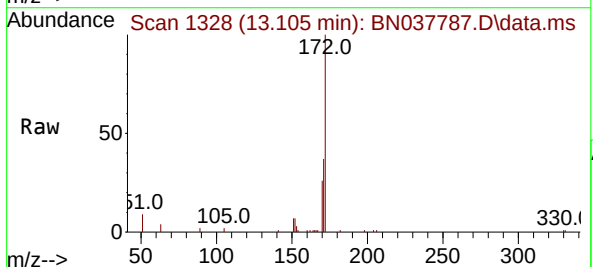
Instrument :
BNA_N
ClientSampleId :
DUP02-20250910

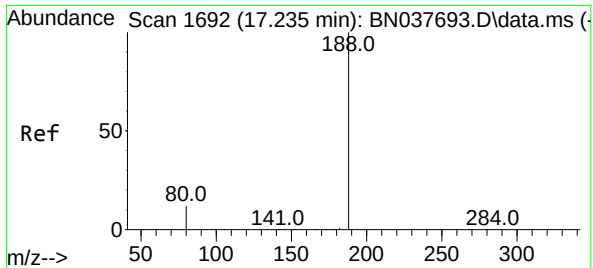
Tgt Ion:330 Resp: 970
Ion Ratio Lower Upper
330 100
332 95.9 75.3 112.9
141 43.1 35.0 52.4



#15
2-Fluorobiphenyl
Concen: 0.332 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

Tgt Ion:172 Resp: 14047
Ion Ratio Lower Upper
172 100
171 36.5 28.6 43.0
170 25.6 19.8 29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037787.D

Acq: 18 Sep 2025 21:14

Instrument :

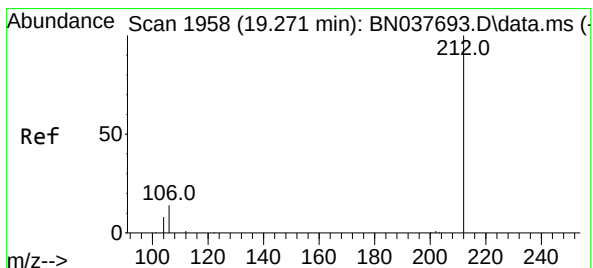
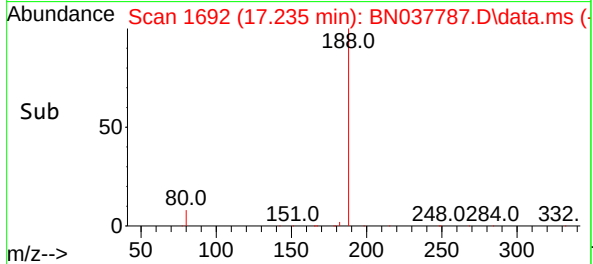
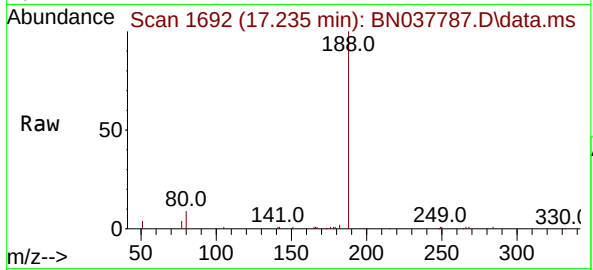
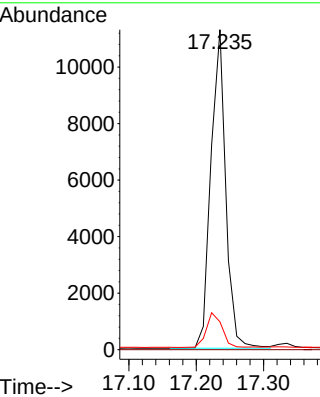
BNA_N

ClientSampleId :

DUP02-20250910

Tgt Ion:188 Resp: 17248

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.7	10.6	15.8



#27

Fluoranthene-d10

Concen: 0.338 ng

RT: 19.262 min Scan# 1956

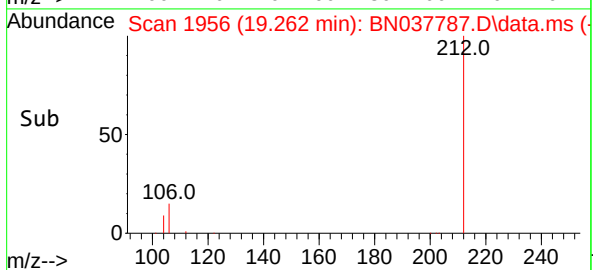
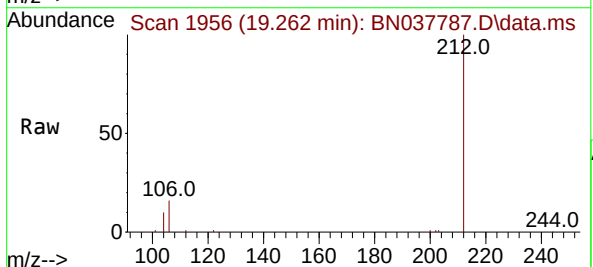
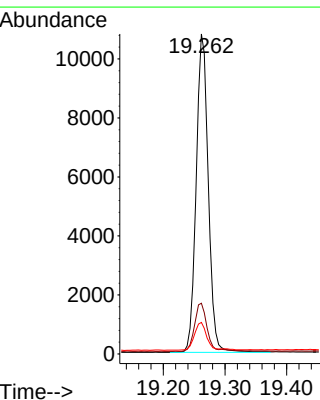
Delta R.T. -0.009 min

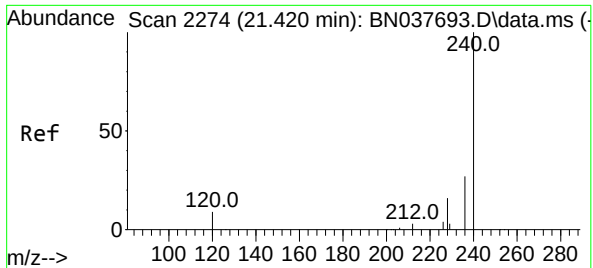
Lab File: BN037787.D

Acq: 18 Sep 2025 21:14

Tgt Ion:212 Resp: 14644

Ion	Ratio	Lower	Upper
212	100		
106	15.9	12.2	18.2
104	9.1	6.9	10.3

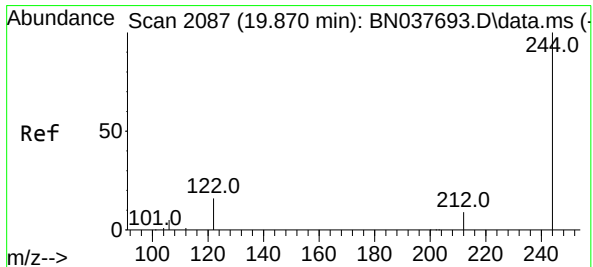
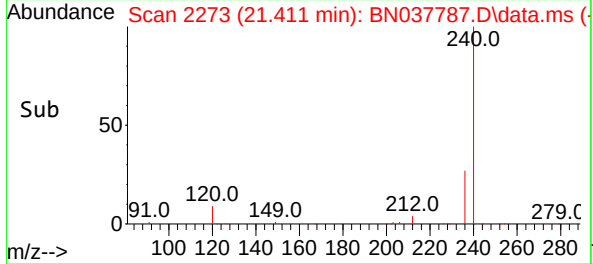
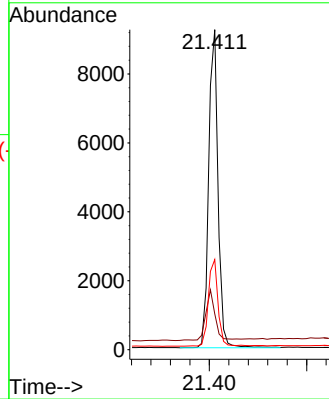
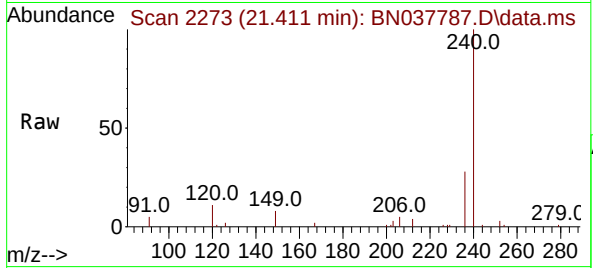




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

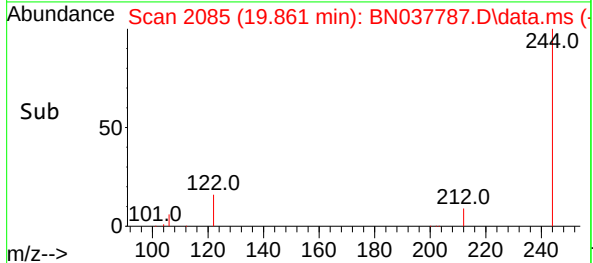
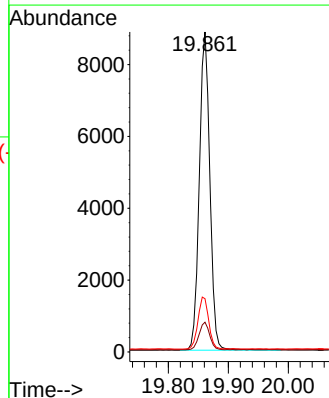
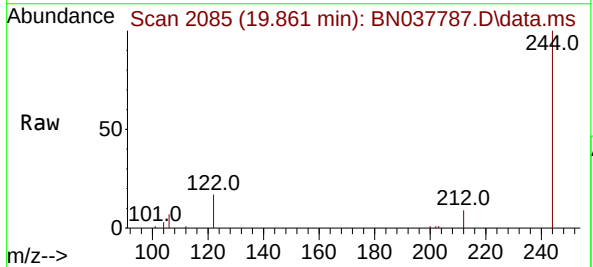
Instrument :
BNA_N
ClientSampleId :
DUP02-20250910

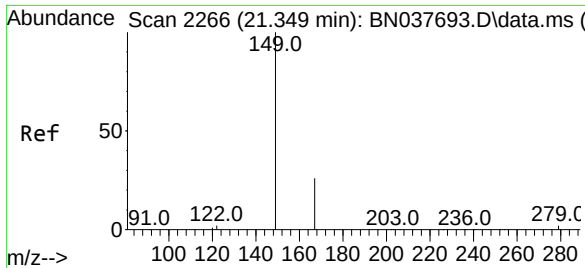
Tgt Ion:240 Resp: 12319
Ion Ratio Lower Upper
240 100
120 11.2 9.2 13.8
236 28.1 22.6 33.8



#31
Terphenyl-d14
Concen: 0.432 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

Tgt Ion:244 Resp: 10800
Ion Ratio Lower Upper
244 100
212 9.3 7.5 11.3
122 16.7 13.2 19.8

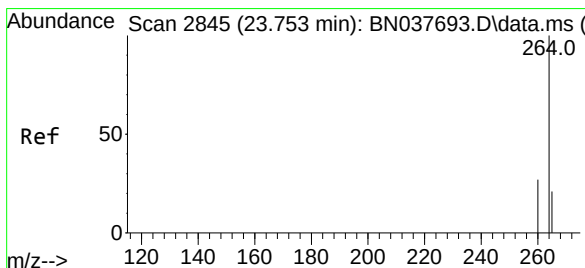
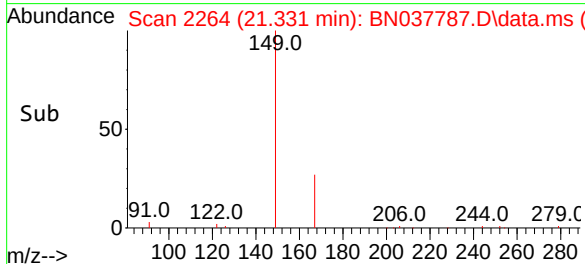
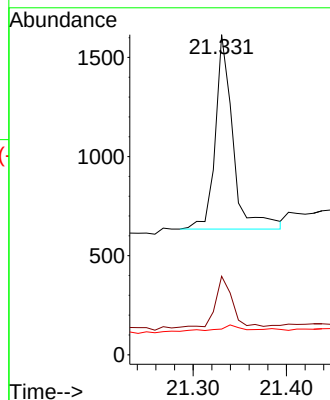
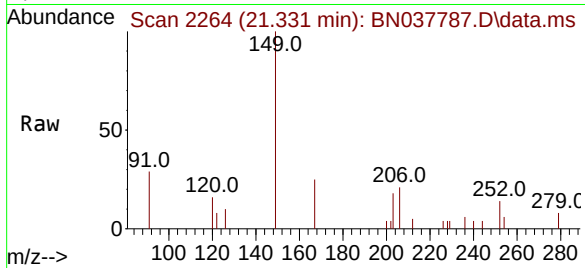




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.101 ng
RT: 21.331 min Scan# 2133
Delta R.T. -0.018 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

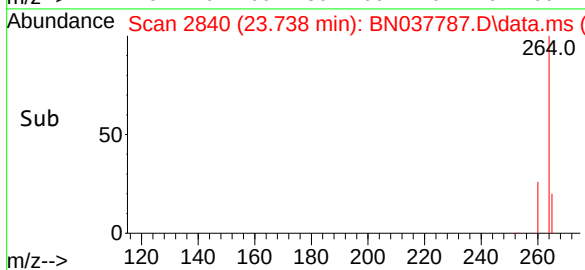
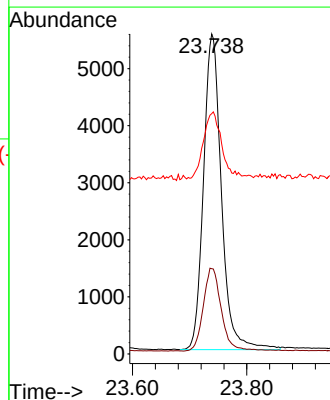
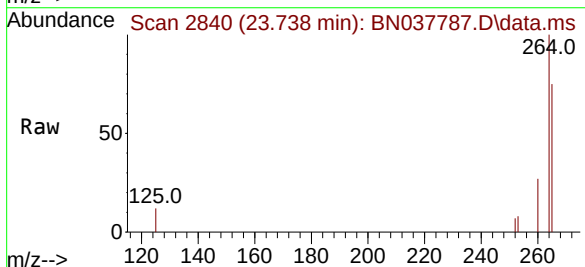
Instrument :
BNA_N
ClientSampleId :
DUP02-20250910

Tgt Ion:149 Resp: 1286
Ion Ratio Lower Upper
149 100
167 24.3 20.8 31.2
279 4.5 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.738 min Scan# 2840
Delta R.T. -0.015 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

Tgt Ion:264 Resp: 12006
Ion Ratio Lower Upper
264 100
260 26.6 21.8 32.8
265 75.1 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	DUP03-20250910	SDG No.:	Q3095
Lab Sample ID:	Q3095-26	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
BN037788.D	1	09/15/25 12:00	09/18/25 21:51	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.11	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		80%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		92%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		96%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7670	7.833				
1146-65-2	Naphthalene-d8	20400	10.637				
15067-26-2	Acenaphthene-d10	8850	14.484				
1517-22-2	Phenanthrene-d10	15300	17.235				
1719-03-5	Chrysene-d12	12400	21.411				
1520-96-3	Perylene-d12	11800	23.741				

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\BN091825\
 Data File : BN037788.D
 Acq On : 18 Sep 2025 21:51
 Operator : RC/JU
 Sample : Q3095-26
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 DUP03-20250910

Quant Time: Sep 19 04:11:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

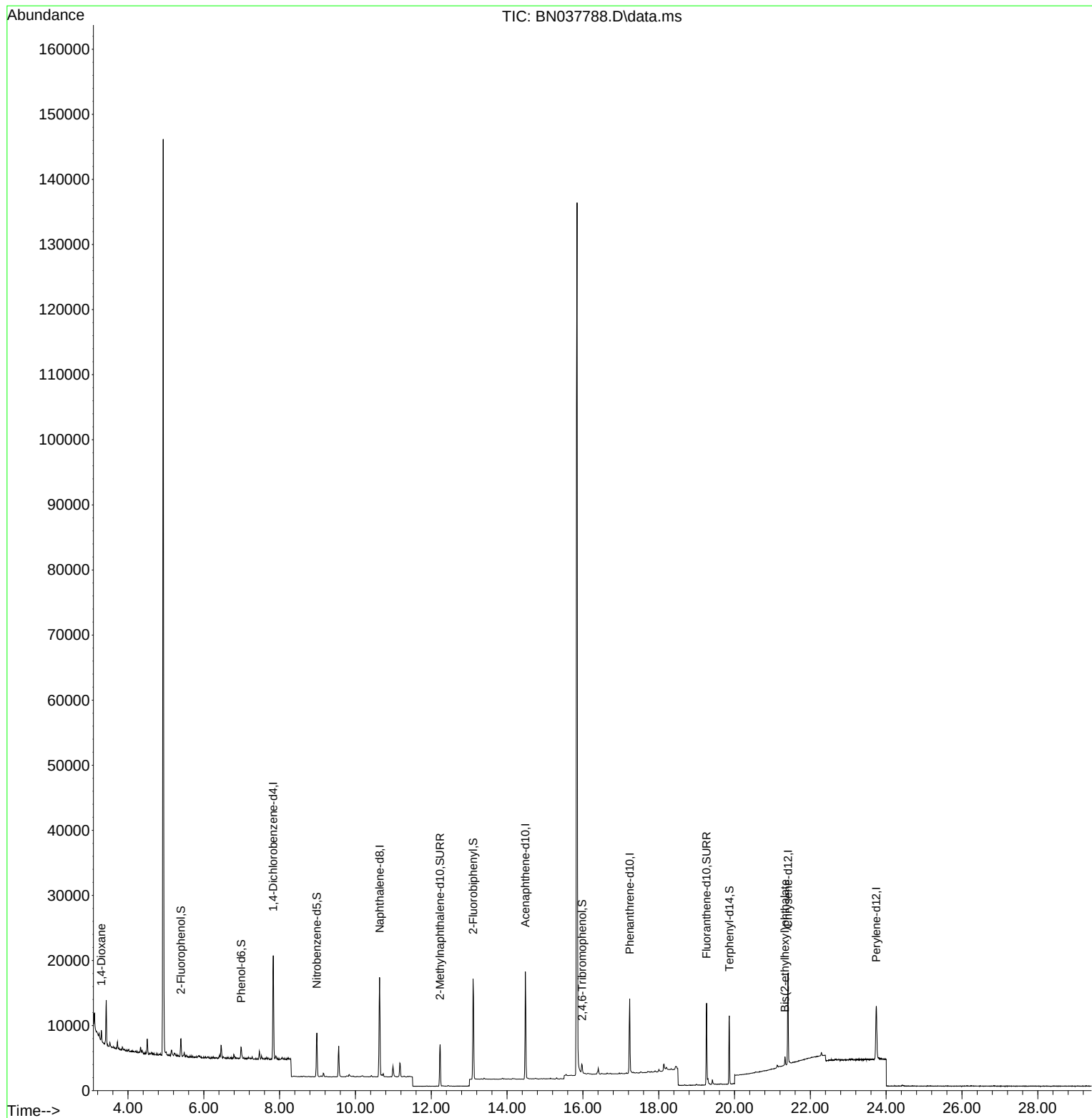
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7666	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	20364	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	8849	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	15319	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	12443	0.400	ng	0.00
35) Perylene-d12	23.741	264	11797	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2255	0.128	ng	0.00
5) Phenol-d6	6.988	99	1672	0.073	ng	0.00
8) Nitrobenzene-d5	8.982	82	5250	0.352	ng	-0.01
11) 2-Methylnaphthalene-d10	12.232	152	8618	0.319	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	891	0.386	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	13638	0.368	ng	-0.01
27) Fluoranthene-d10	19.262	212	13525	0.352	ng	0.00
31) Terphenyl-d14	19.861	244	9731	0.385	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	903	0.113	ng	# 84
34) Bis(2-ethylhexyl)phtha...	21.331	149	1314	0.102	ng	93

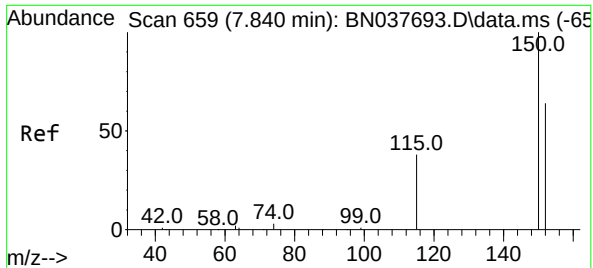
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037788.D
Acq On : 18 Sep 2025 21:51
Operator : RC/JU
Sample : Q3095-26
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP03-20250910

Quant Time: Sep 19 04:11:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

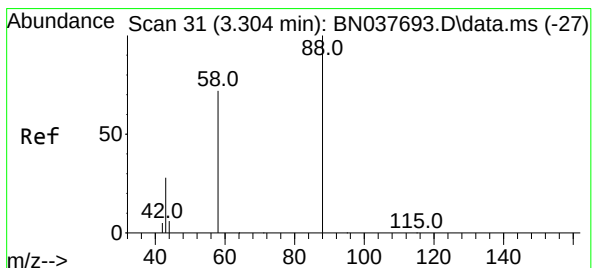
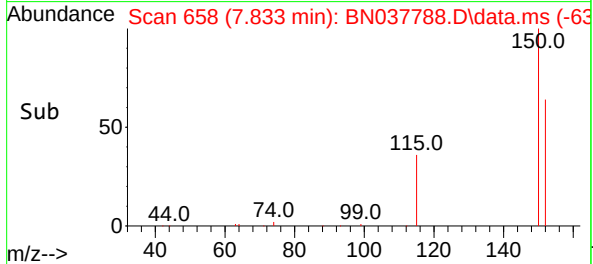
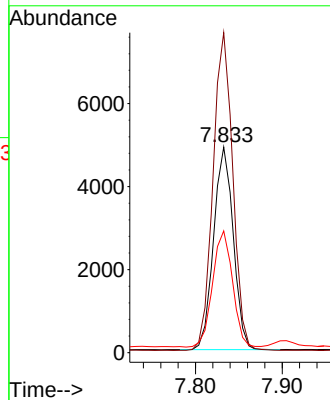
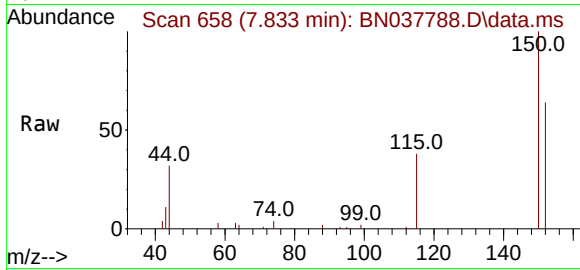




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

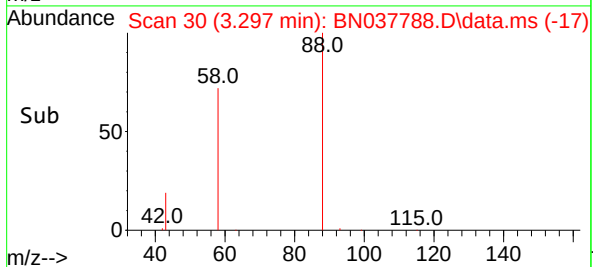
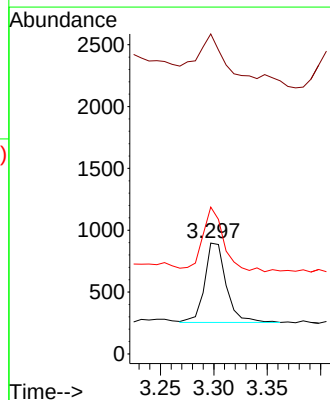
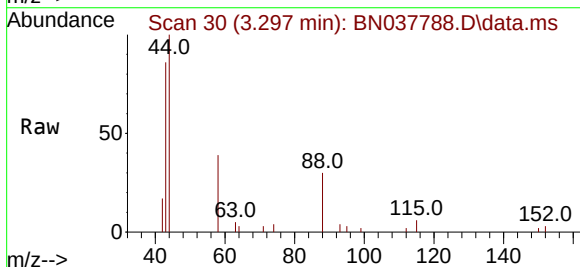
Instrument :
BNA_N
ClientSampleId :
DUP03-20250910

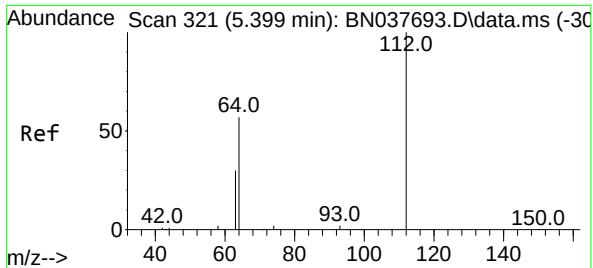
Tgt Ion:152 Resp: 7666
Ion Ratio Lower Upper
152 100
150 155.6 124.5 186.7
115 59.2 49.2 73.8



#2
1,4-Dioxane
Concen: 0.113 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

Tgt Ion: 88 Resp: 903
Ion Ratio Lower Upper
88 100
43 63.6 26.8 40.2#
58 77.2 61.9 92.9

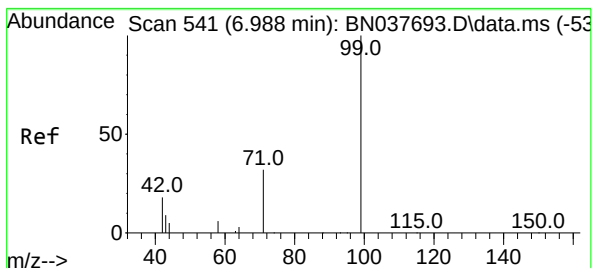
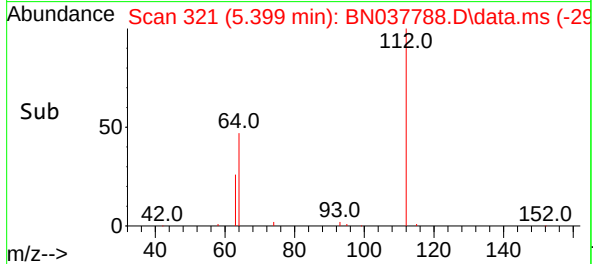
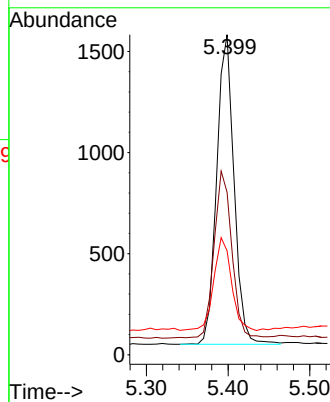
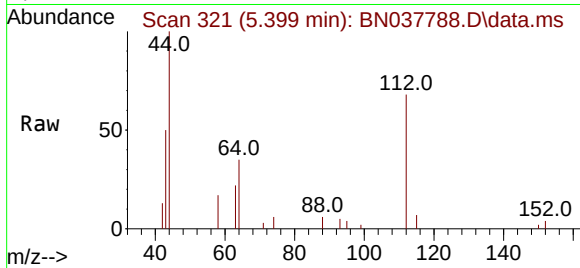




#4
2-Fluorophenol
Concen: 0.128 ng
RT: 5.399 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

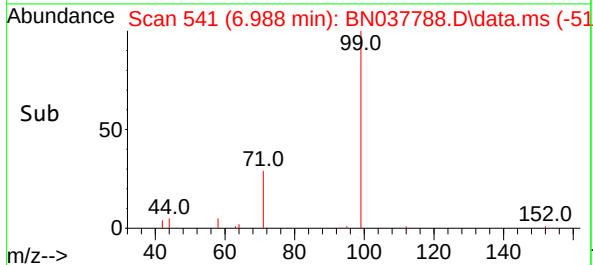
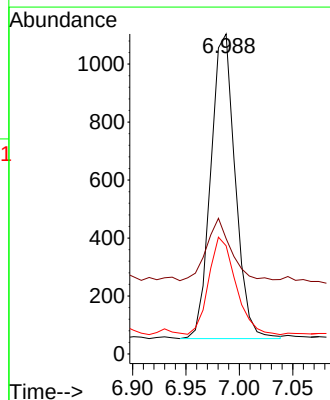
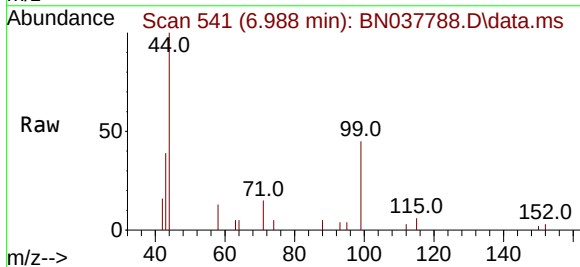
Instrument :
BNA_N
ClientSampleId :
DUP03-20250910

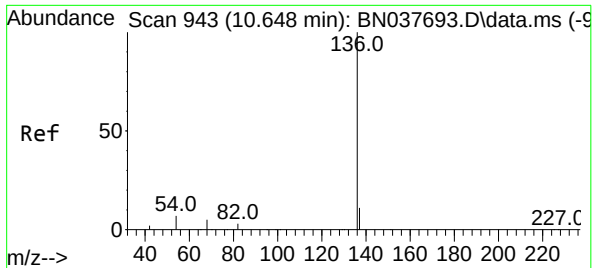
Tgt Ion:112 Resp: 2255
Ion Ratio Lower Upper
112 100
64 55.4 44.9 67.3
63 30.6 24.7 37.1



#5
Phenol-d6
Concen: 0.073 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

Tgt Ion: 99 Resp: 1672
Ion Ratio Lower Upper
99 100
42 20.6 16.6 24.8
71 35.4 26.7 40.1

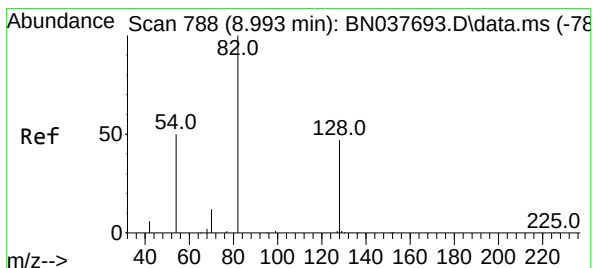
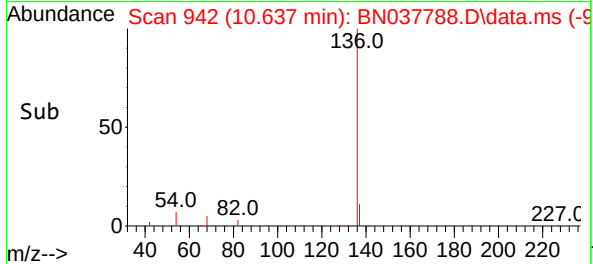
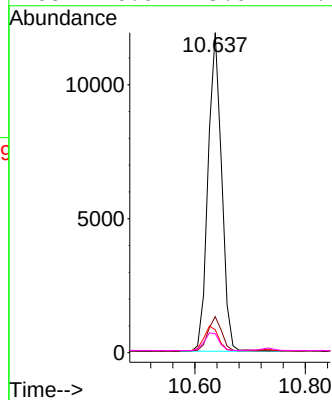
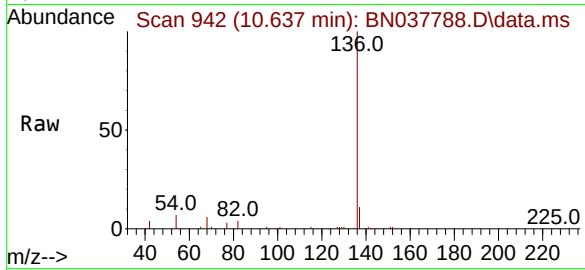




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

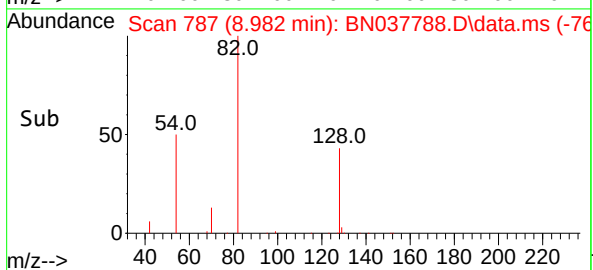
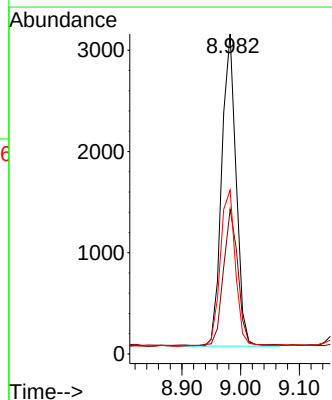
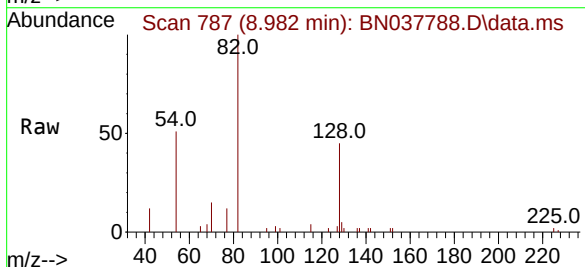
Instrument :
BNA_N
ClientSampleId :
DUP03-20250910

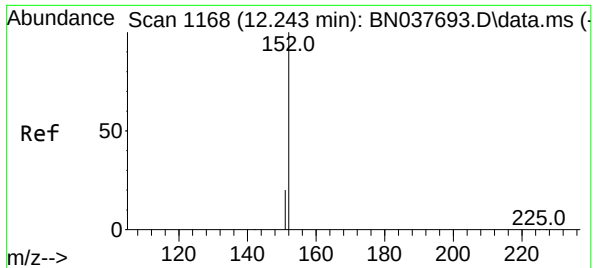
Tgt Ion:	136	Resp:	20364
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	7.2	6.3	9.5
68	6.0	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.352 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

Tgt Ion:	82	Resp:	5250
Ion	Ratio	Lower	Upper
82	100		
128	45.2	38.3	57.5
54	51.2	41.4	62.2

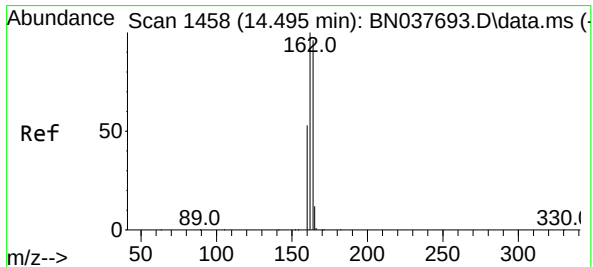
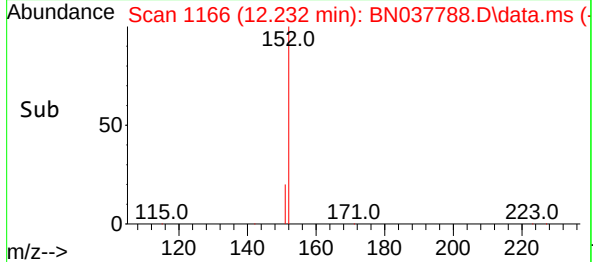
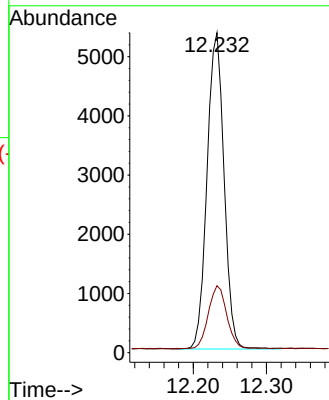
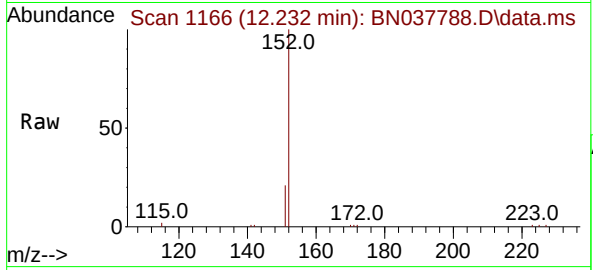




#11
2-Methylnaphthalene-d10
Concen: 0.319 ng
RT: 12.232 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

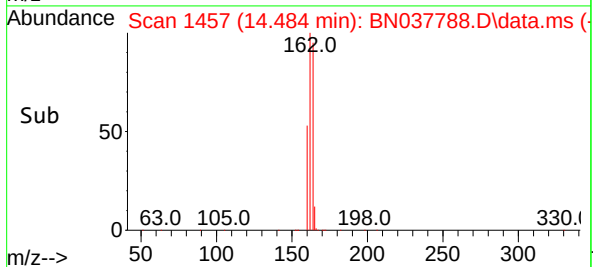
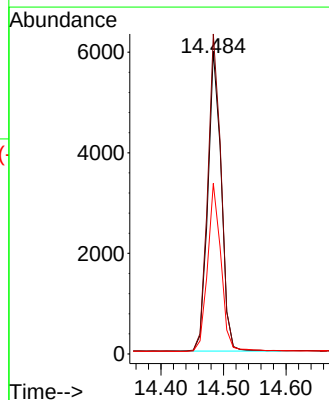
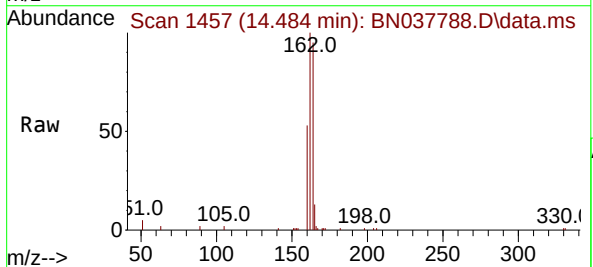
Instrument :
BNA_N
ClientSampleId :
DUP03-20250910

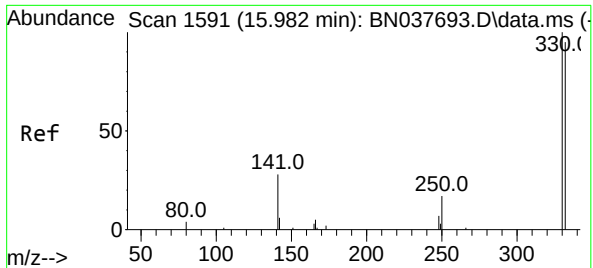
Tgt Ion:152 Resp: 8618
Ion Ratio Lower Upper
152 100
151 21.7 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

Tgt Ion:164 Resp: 8849
Ion Ratio Lower Upper
164 100
162 105.7 83.1 124.7
160 56.3 44.3 66.5

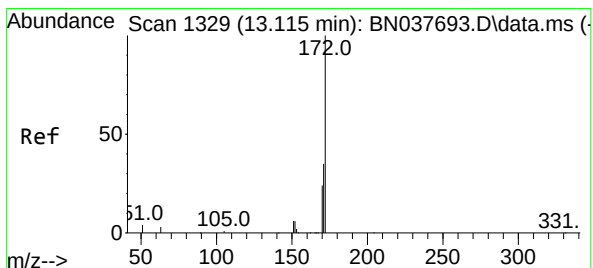
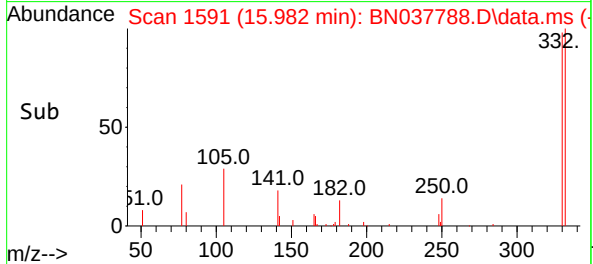
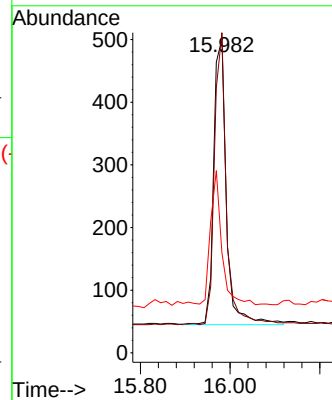
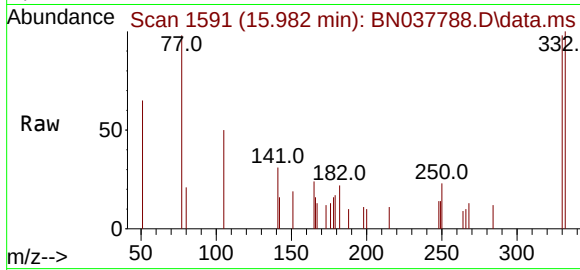




#14
2,4,6-Tribromophenol
Concen: 0.386 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

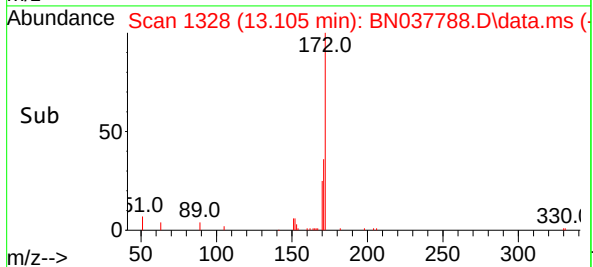
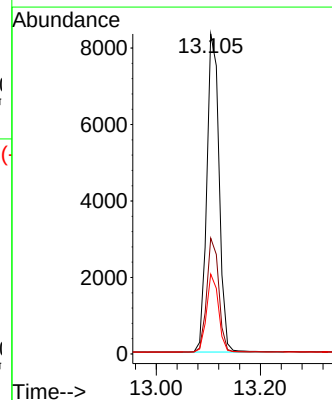
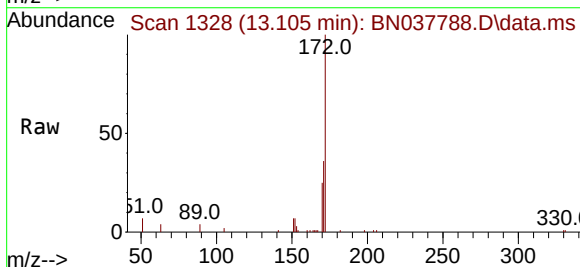
Instrument :
BNA_N
ClientSampleId :
DUP03-20250910

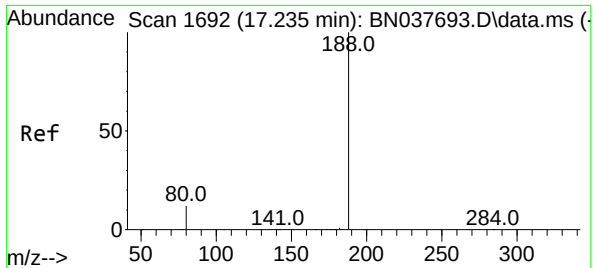
Tgt Ion	330	332	141
Resp:	891		
Ratio	100	95.7	43.1
Lower		75.3	35.0
Upper		112.9	52.4



#15
2-Fluorobiphenyl
Concen: 0.368 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

Tgt Ion	172	171	170
Resp:	13638		
Ratio	100	36.2	25.0
Lower		28.6	19.8
Upper		43.0	29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037788.D

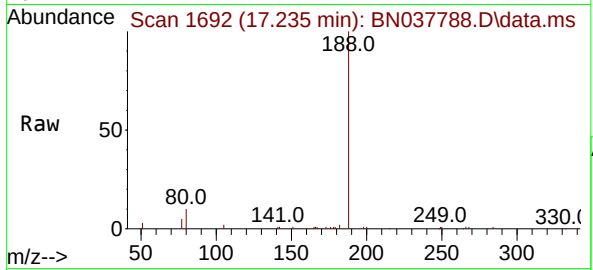
Acq: 18 Sep 2025 21:51

Instrument :

BNA_N

ClientSampleId :

DUP03-20250910



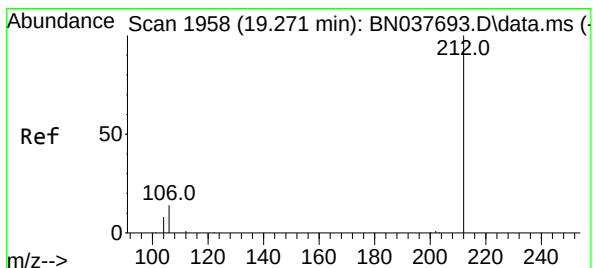
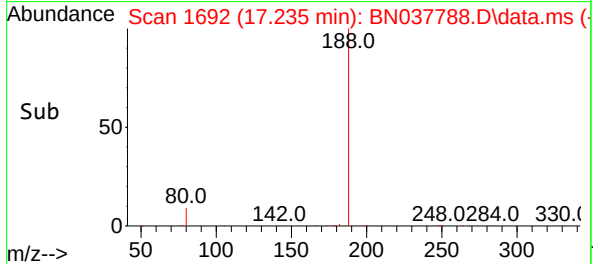
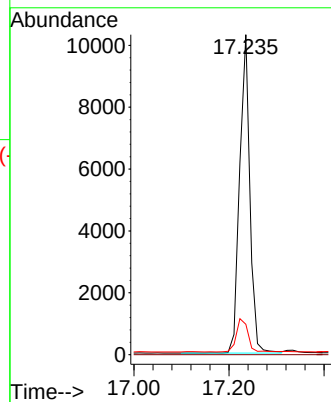
Tgt Ion:188 Resp: 15319

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.5 10.6 15.8#



#27

Fluoranthene-d10

Concen: 0.352 ng

RT: 19.262 min Scan# 1956

Delta R.T. -0.009 min

Lab File: BN037788.D

Acq: 18 Sep 2025 21:51

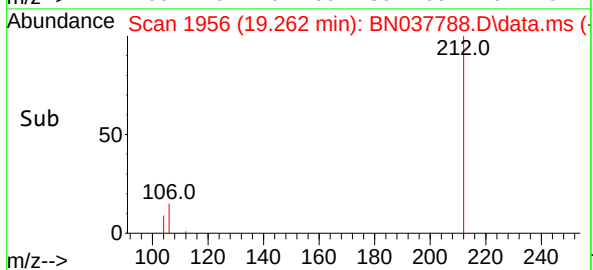
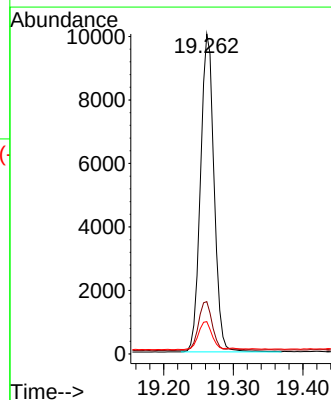
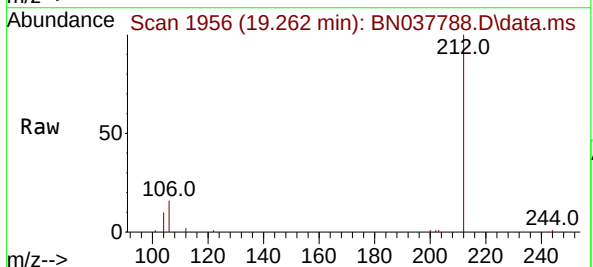
Tgt Ion:212 Resp: 13525

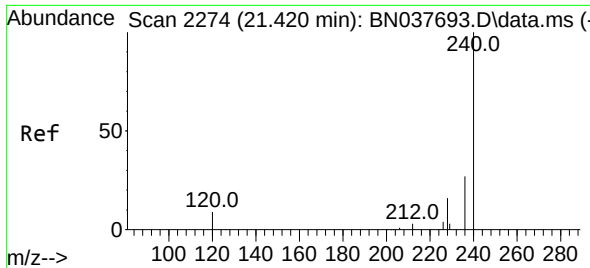
Ion Ratio Lower Upper

212 100

106 15.5 12.2 18.2

104 9.1 6.9 10.3

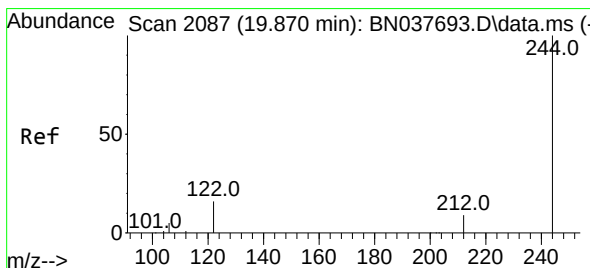
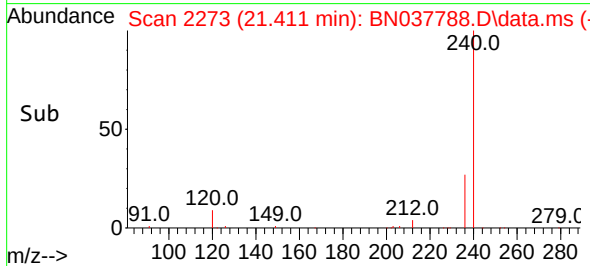
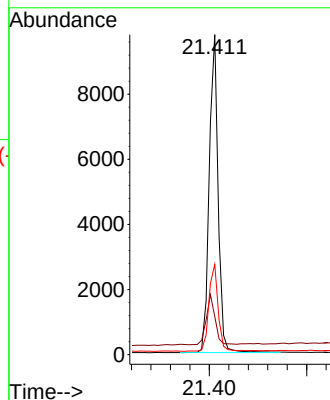
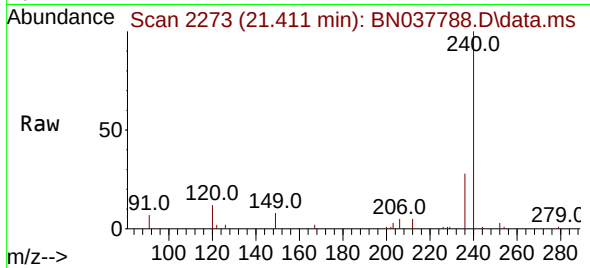




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

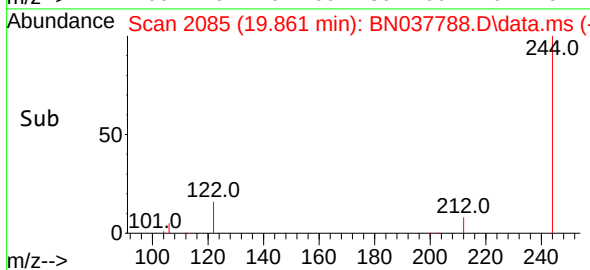
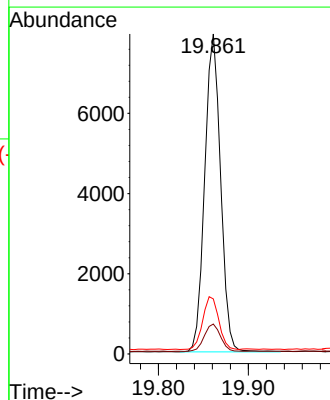
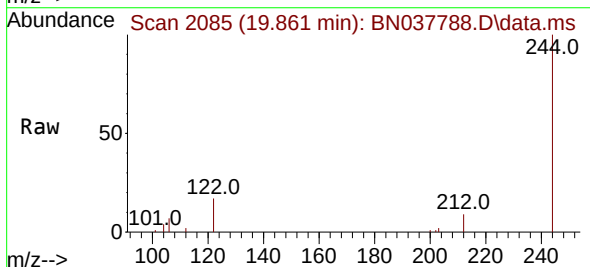
Instrument :
BNA_N
ClientSampleId :
DUP03-20250910

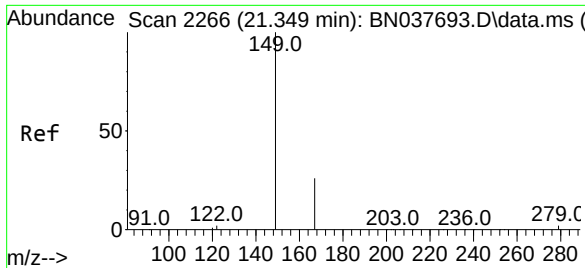
Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.0	9.2	13.8
236	28.2	22.6	33.8



#31
Terphenyl-d14
Concen: 0.385 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.5	11.3
122	17.2	13.2	19.8

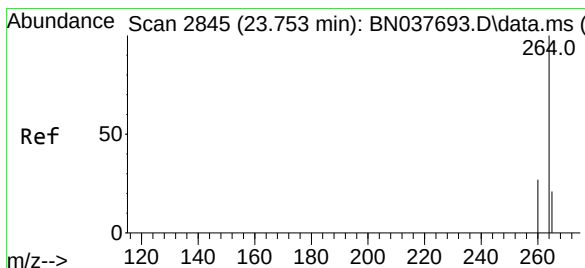
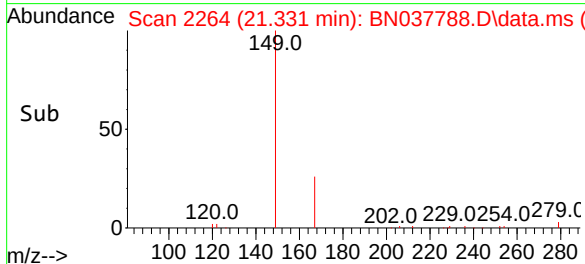
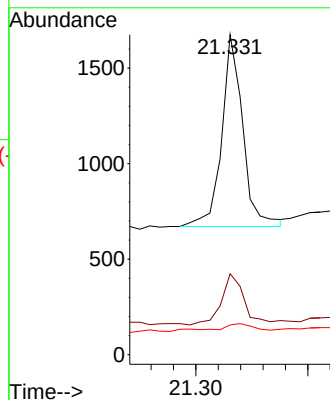
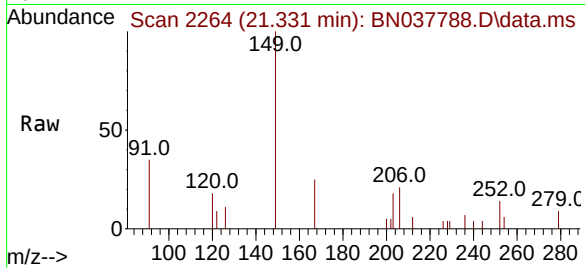




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.102 ng
RT: 21.331 min Scan# 2134
Delta R.T. -0.018 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

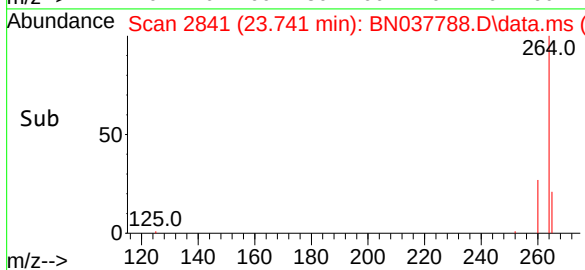
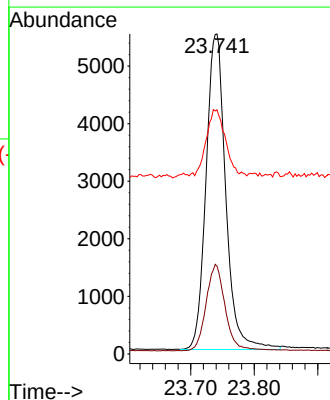
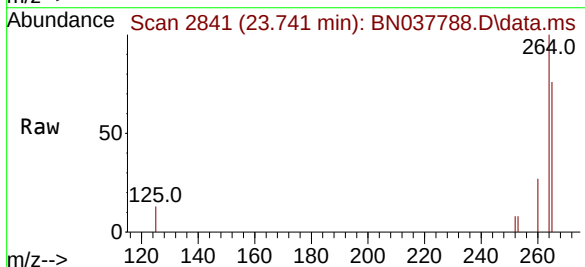
Instrument :
BNA_N
ClientSampleId :
DUP03-20250910

Tgt Ion:149 Resp: 1314
Ion Ratio Lower Upper
149 100
167 30.2 20.8 31.2
279 4.0 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.741 min Scan# 2841
Delta R.T. -0.012 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

Tgt Ion:264 Resp: 11797
Ion Ratio Lower Upper
264 100
260 27.4 21.8 32.8
265 76.3 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE117D1-20250910	SDG No.:	Q3095
Lab Sample ID:	Q3095-27	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
BN037815.D	1	09/15/25 12:00	09/19/25 15:32	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.74		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	0.39		30 - 150		98%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.41		55 - 111		103%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		101%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		100%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4750	7.833				
1146-65-2	Naphthalene-d8	12200	10.637				
15067-26-2	Acenaphthene-d10	5110	14.484				
1517-22-2	Phenanthrene-d10	8980	17.223				
1719-03-5	Chrysene-d12	8110	21.411				
1520-96-3	Perylene-d12	7860	23.744				

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\BN091925\
 Data File : BN037815.D
 Acq On : 19 Sep 2025 15:32
 Operator : RC/JU
 Sample : Q3095-27
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE117D1-20250910

Quant Time: Sep 19 16:55:45 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

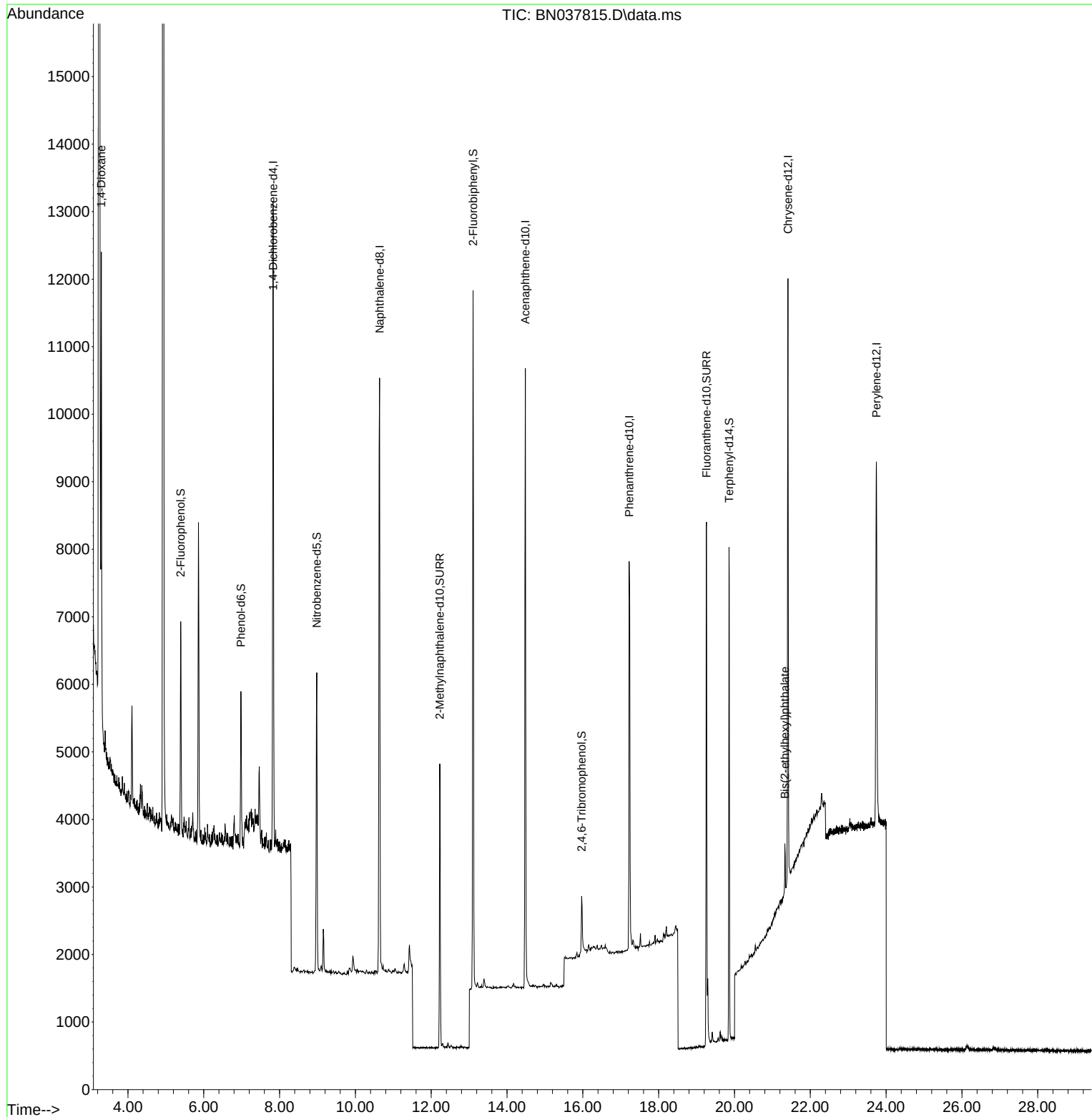
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	4745	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	12184	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	5111	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	8978	0.400	ng	-0.01
29) Chrysene-d12	21.411	240	8113	0.400	ng	# 0.00
35) Perylene-d12	23.744	264	7855	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.391	112	2461	0.226	ng	0.00
5) Phenol-d6	6.980	99	1910	0.135	ng	0.00
8) Nitrobenzene-d5	8.982	82	3685	0.413	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	5602	0.347	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	591	0.443	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	8625	0.403	ng	-0.01
27) Fluoranthene-d10	19.262	212	8803	0.391	ng	0.00
31) Terphenyl-d14	19.856	244	6620	0.402	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	3638	0.736	ng	98
34) Bis(2-ethylhexyl)phtha...	21.331	149	723	0.086	ng	# 92

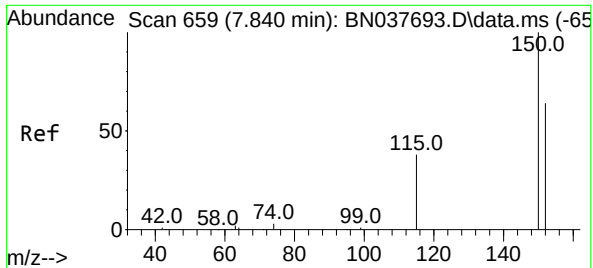
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037815.D
Acq On : 19 Sep 2025 15:32
Operator : RC/JU
Sample : Q3095-27
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250910

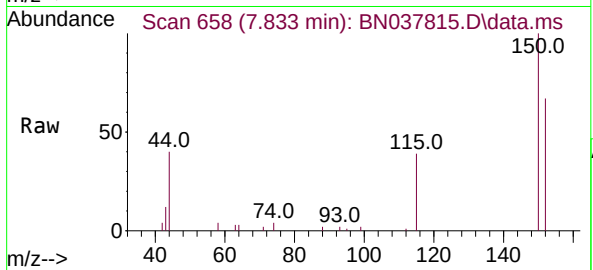
Quant Time: Sep 19 16:55:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



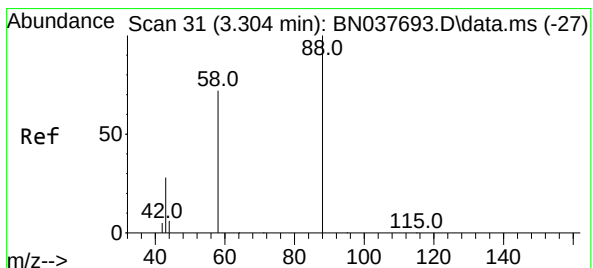
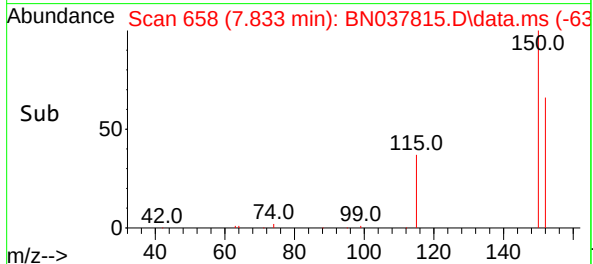
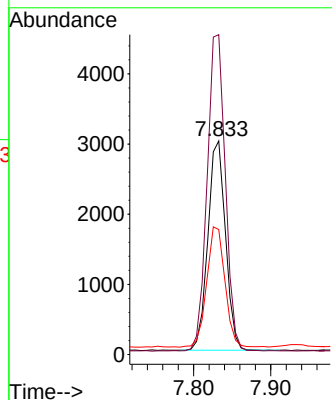


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250910

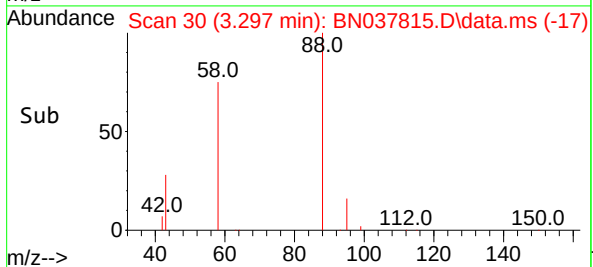
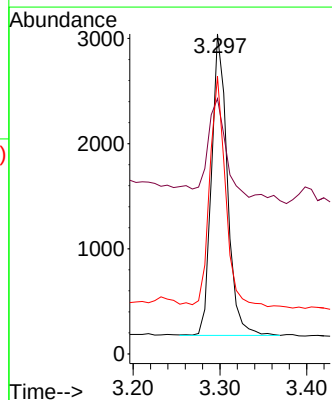
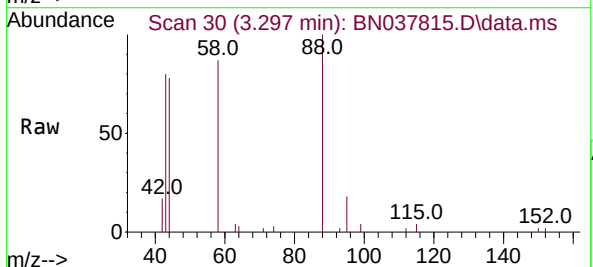


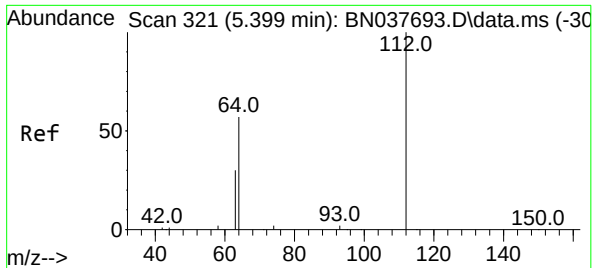
Tgt Ion:152 Resp: 4745
Ion Ratio Lower Upper
152 100
150 149.8 124.5 186.7
115 58.5 49.2 73.8



#2
1,4-Dioxane
Concen: 0.736 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

Tgt Ion: 88 Resp: 3638
Ion Ratio Lower Upper
88 100
43 34.2 26.8 40.2
58 75.1 61.9 92.9

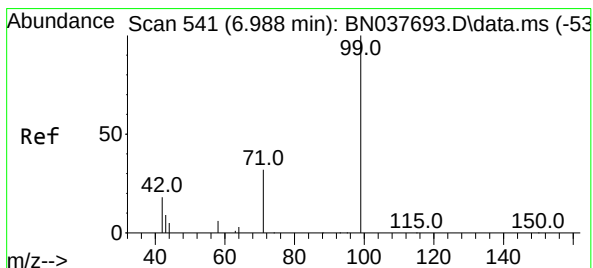
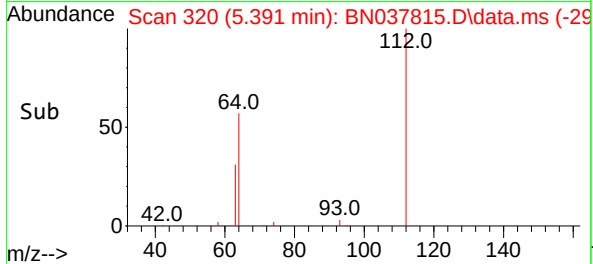
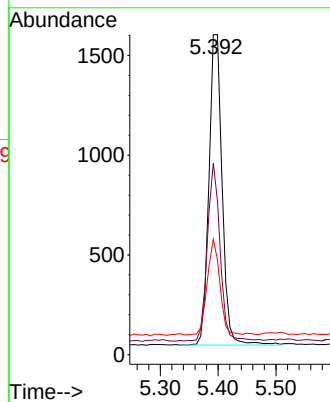
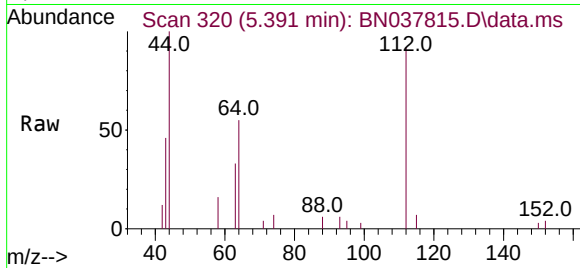




#4
2-Fluorophenol
Concen: 0.226 ng
RT: 5.391 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

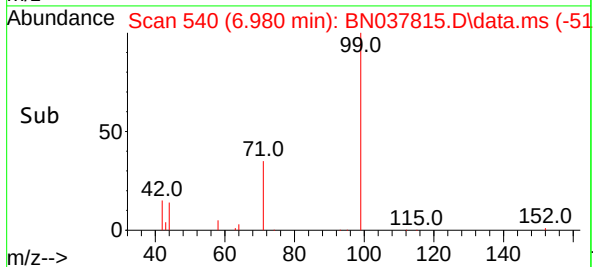
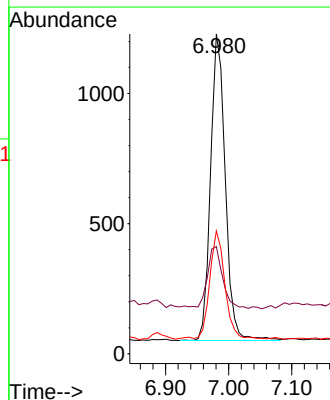
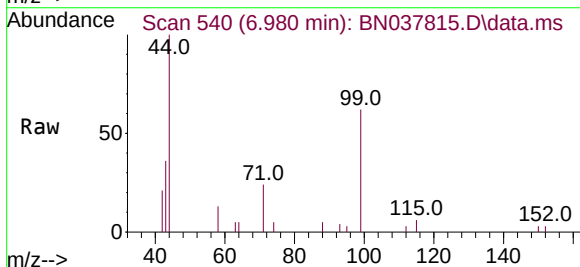
Instrument :
BNA_N
ClientSampleId :
RE117D1-20250910

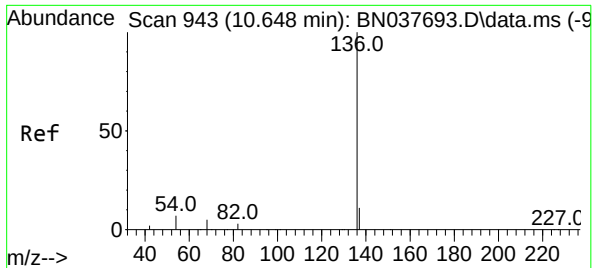
Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.1	44.9	67.3
63	29.2	24.7	37.1



#5
Phenol-d6
Concen: 0.135 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.6	16.6	24.8
71	36.5	26.7	40.1

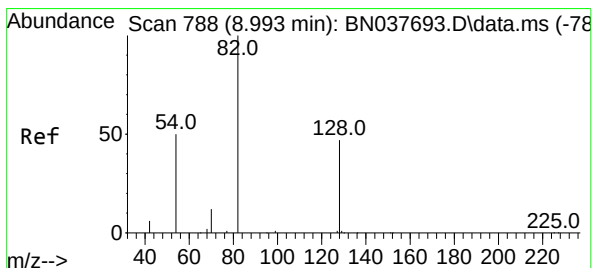
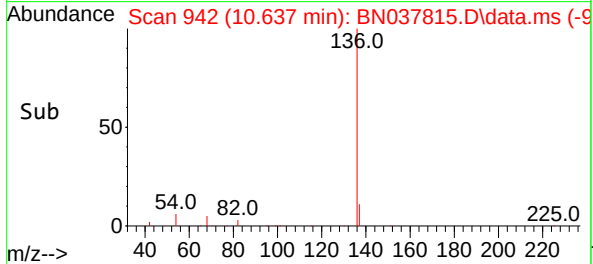
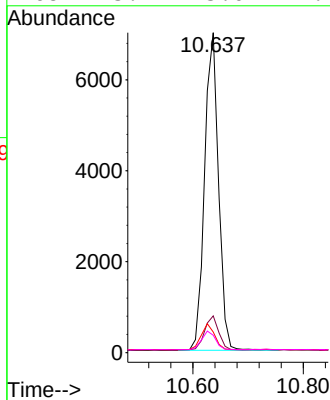
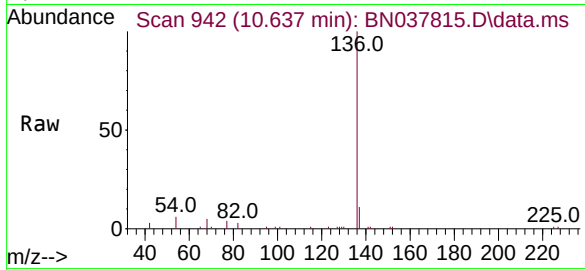




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

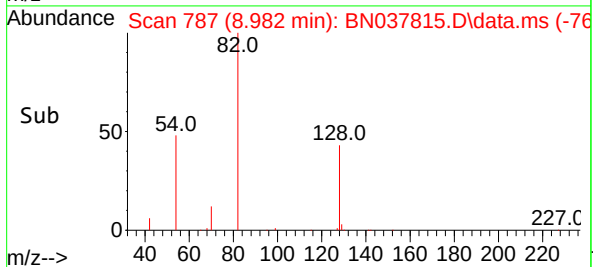
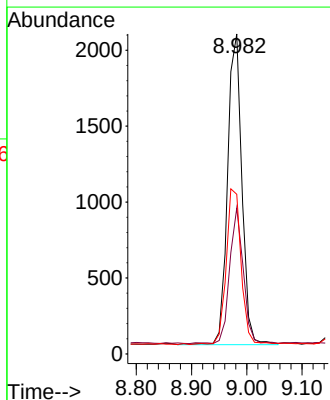
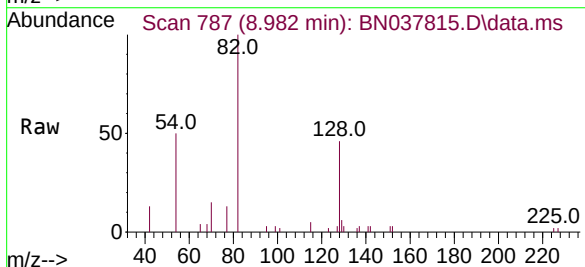
Instrument :
BNA_N
ClientSampleId :
RE117D1-20250910

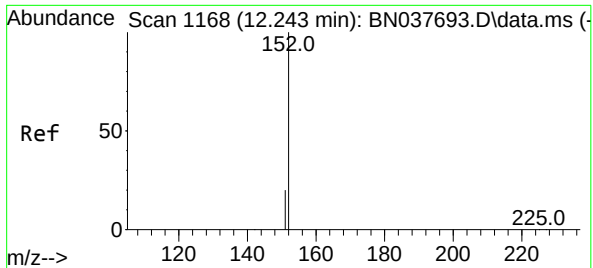
Tgt Ion:	136	Resp:	12184
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	6.4	6.3	9.5
68	5.4	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.413 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

Tgt Ion:	82	Resp:	3685
Ion	Ratio	Lower	Upper
82	100		
128	45.6	38.3	57.5
54	49.9	41.4	62.2

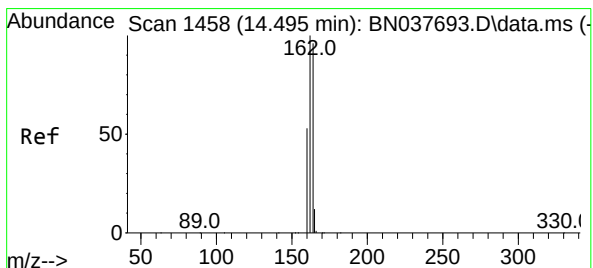
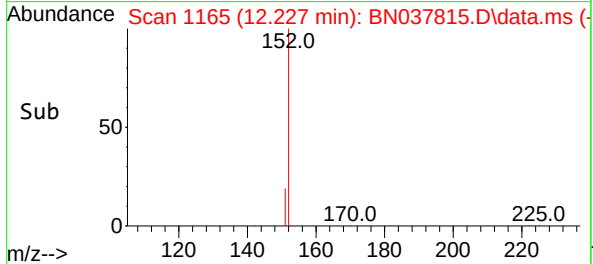
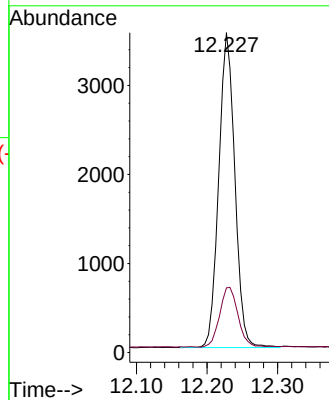
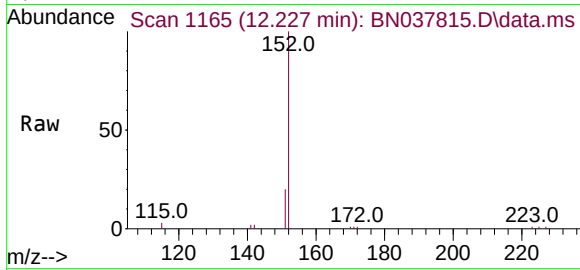




#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

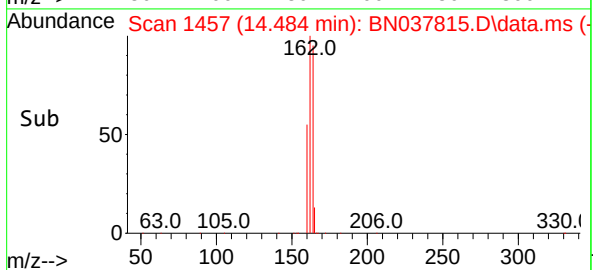
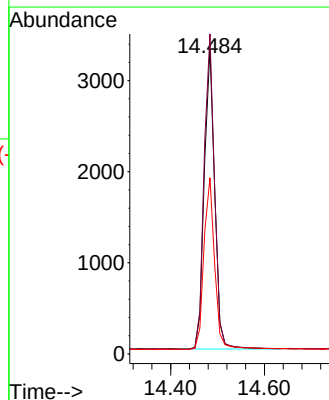
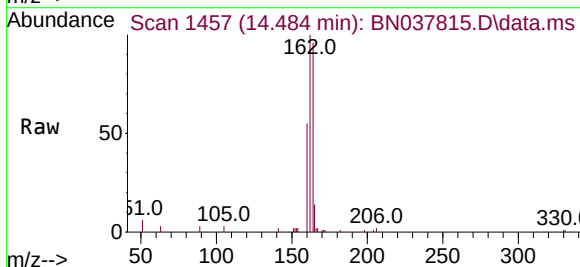
Instrument :
BNA_N
ClientSampleId :
RE117D1-20250910

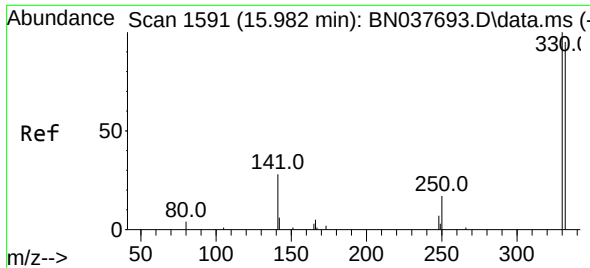
Tgt Ion:152 Resp: 5602
Ion Ratio Lower Upper
152 100
151 21.6 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

Tgt Ion:164 Resp: 5111
Ion Ratio Lower Upper
164 100
162 104.7 83.1 124.7
160 57.6 44.3 66.5

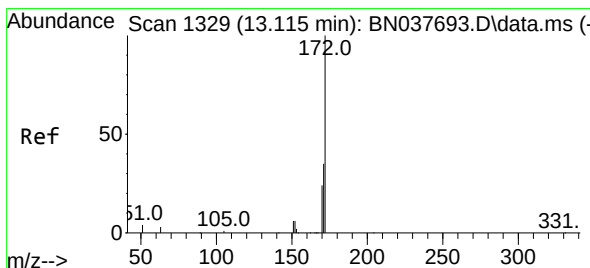
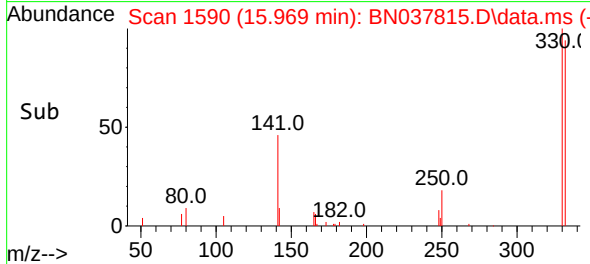
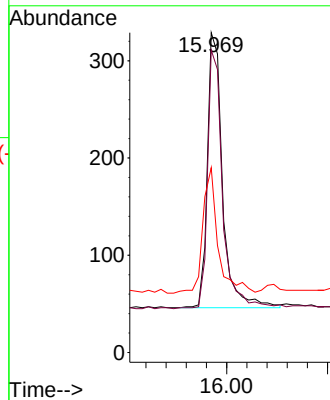
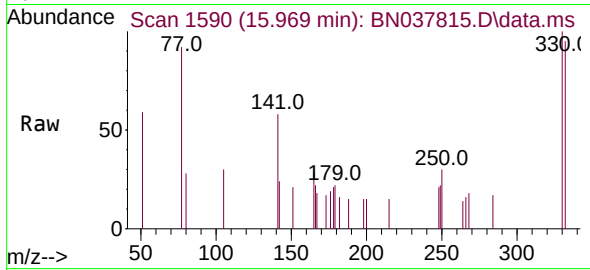




#14
2,4,6-Tribromophenol
Concen: 0.443 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

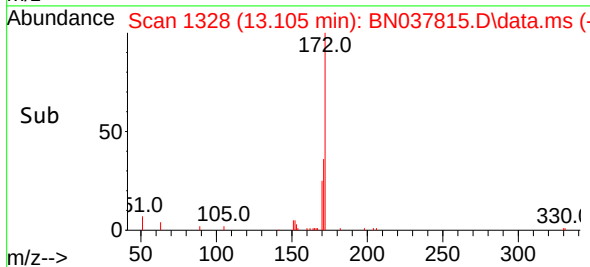
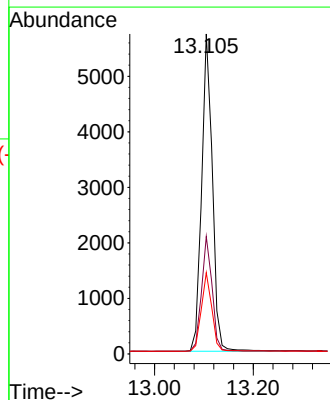
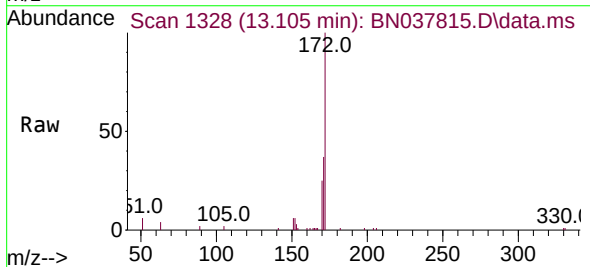
Instrument :
BNA_N
ClientSampleId :
RE117D1-20250910

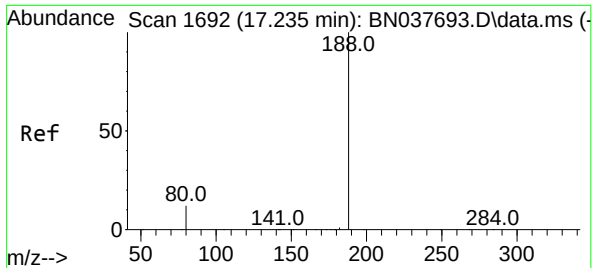
Tgt Ion	330	Resp	591
Ion Ratio	100		
332	93.9	75.3	112.9
141	45.2	35.0	52.4



#15
2-Fluorobiphenyl
Concen: 0.403 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

Tgt Ion	172	Resp	8625
Ion Ratio	100		
171	36.7	28.6	43.0
170	25.4	19.8	29.8

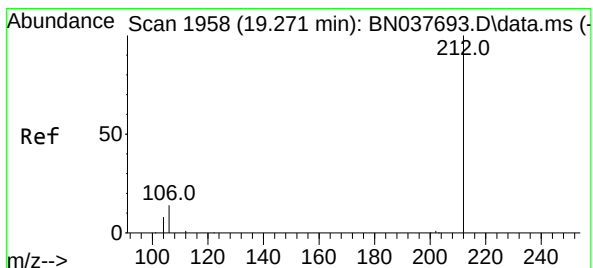
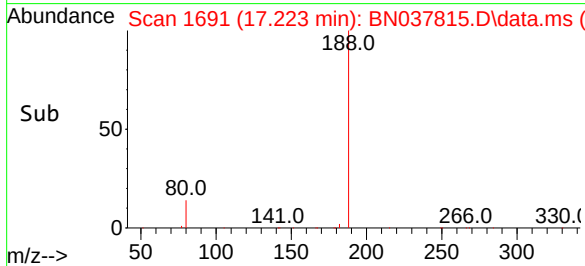
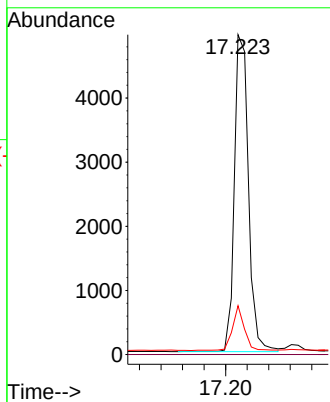
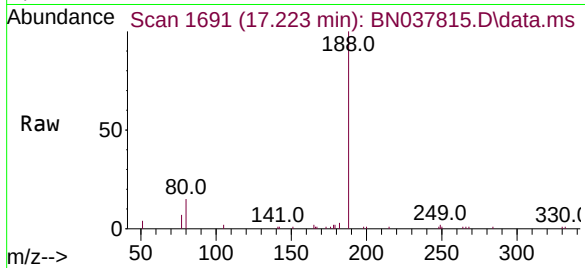




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.013 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

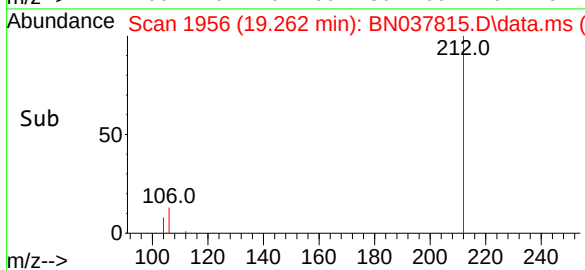
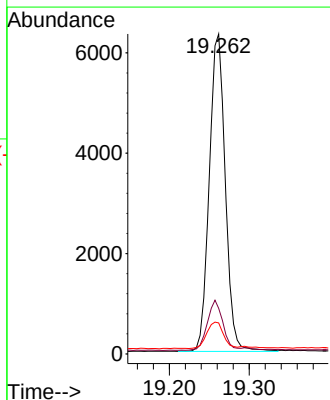
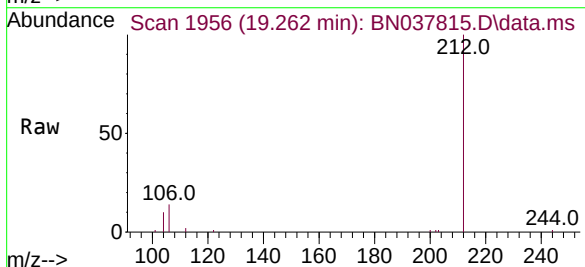
Instrument :
BNA_N
ClientSampleId :
RE117D1-20250910

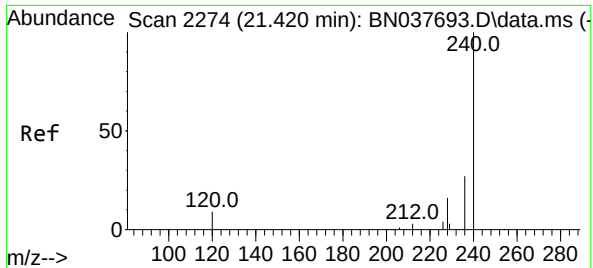
Tgt Ion:	188	Resp:	8978
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	15.3	10.6	15.8



#27
Fluoranthene-d10
Concen: 0.391 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

Tgt Ion:	212	Resp:	8803
Ion Ratio	Lower	Upper	
212	100		
106	15.3	12.2	18.2
104	8.7	6.9	10.3

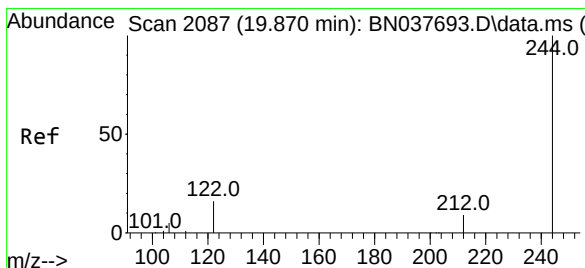
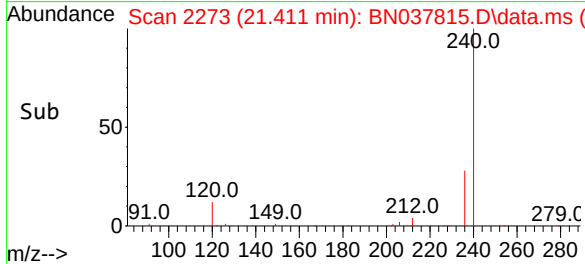
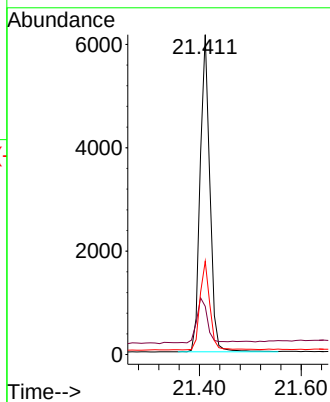
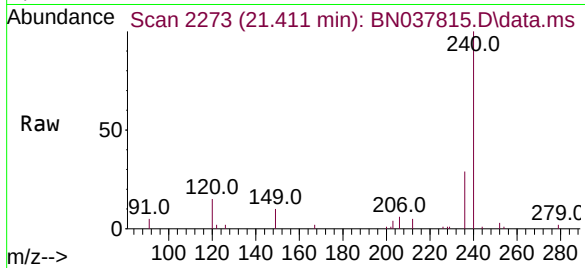




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

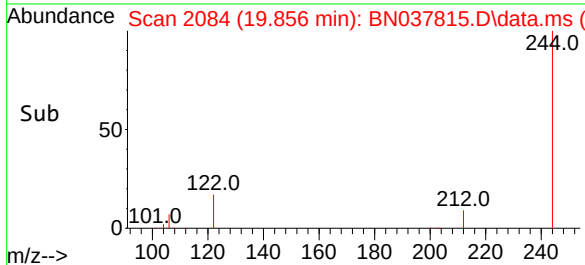
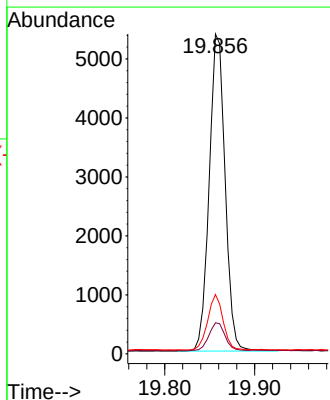
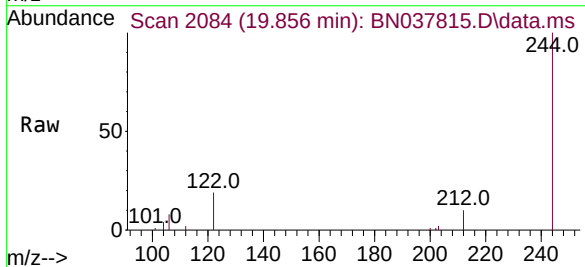
Instrument :
BNA_N
ClientSampleId :
RE117D1-20250910

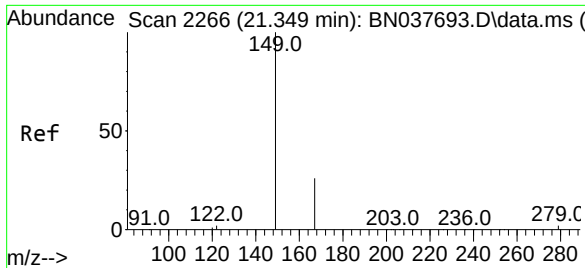
Tgt Ion:240 Resp: 8113
Ion Ratio Lower Upper
240 100
120 15.1 9.2 13.8#
236 29.2 22.6 33.8



#31
Terphenyl-d14
Concen: 0.402 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

Tgt Ion:244 Resp: 6620
Ion Ratio Lower Upper
244 100
212 9.7 7.5 11.3
122 18.5 13.2 19.8

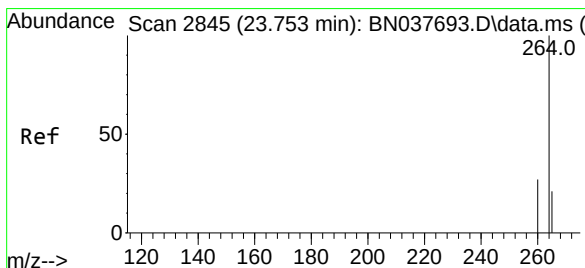
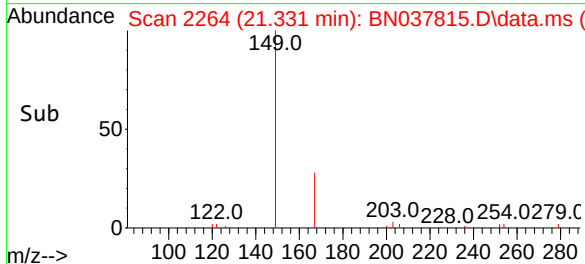
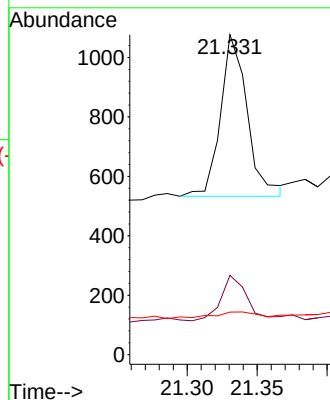
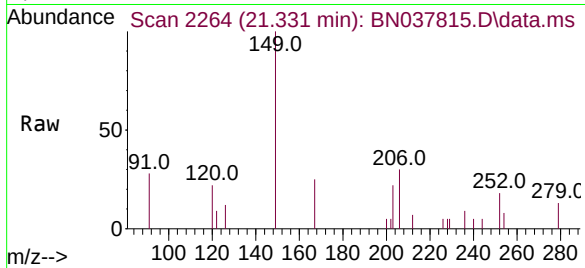




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.086 ng
RT: 21.331 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

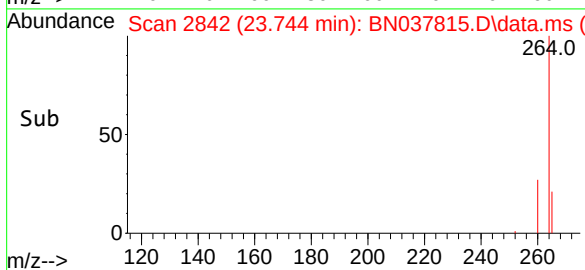
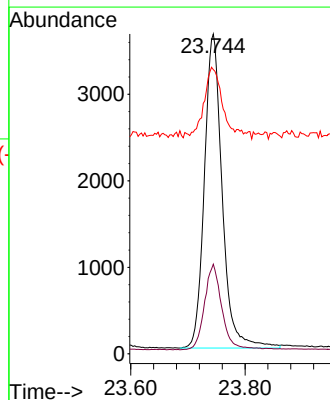
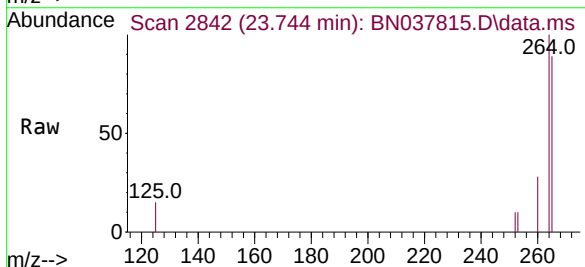
Instrument :
BNA_N
ClientSampleId :
RE117D1-20250910

Tgt Ion:149 Resp: 723
Ion Ratio Lower Upper
149 100
167 29.7 20.8 31.2
279 7.3 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

Tgt Ion:264 Resp: 7855
Ion Ratio Lower Upper
264 100
260 28.0 21.8 32.8
265 88.8 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE104D3-20250910	SDG No.:	Q3095
Lab Sample ID:	Q3095-28	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
BN037843.D	1	09/15/25 12:00	09/20/25 09:14	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		80%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		96%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		98%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5580	7.825				
1146-65-2	Naphthalene-d8	14500	10.626				
15067-26-2	Acenaphthene-d10	6030	14.484				
1517-22-2	Phenanthrene-d10	10400	17.223				
1719-03-5	Chrysene-d12	8830	21.402				
1520-96-3	Perylene-d12	32.0	23.736				

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\BN091925\
 Data File : BN037843.D
 Acq On : 20 Sep 2025 09:14
 Operator : RC/JU
 Sample : Q3095-28
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE104D3-20250910

Quant Time: Sep 22 00:37:04 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

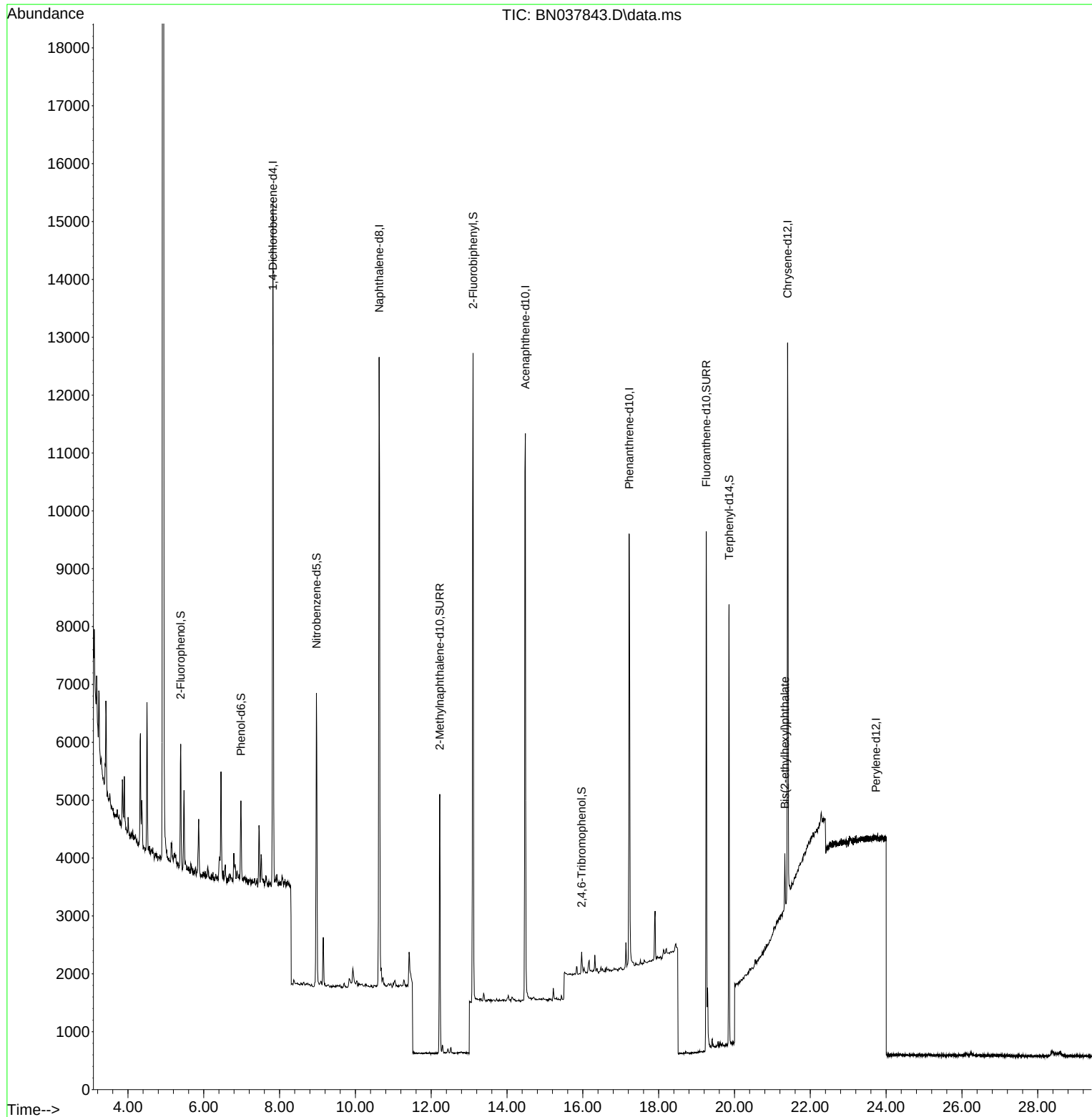
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5576	0.400	ng	-0.01
7) Naphthalene-d8	10.626	136	14489	0.400	ng	-0.02
13) Acenaphthene-d10	14.484	164	6033	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	10379	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	8825	0.400	ng	#-0.02
35) Perylene-d12	23.736	264	32	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1641	0.128	ng	0.00
5) Phenol-d6	6.980	99	1234	0.074	ng	0.00
8) Nitrobenzene-d5	8.971	82	4034	0.381	ng	-0.02
11) 2-Methylnaphthalene-d10	12.227	152	6145	0.320	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	247	0.157	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	9686	0.384	ng	-0.01
27) Fluoranthene-d10	19.257	212	9444	0.362	ng	-0.01
31) Terphenyl-d14	19.856	244	6998	0.391	ng	-0.01
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.331	149	976	0.107	ng	Qvalue # 97

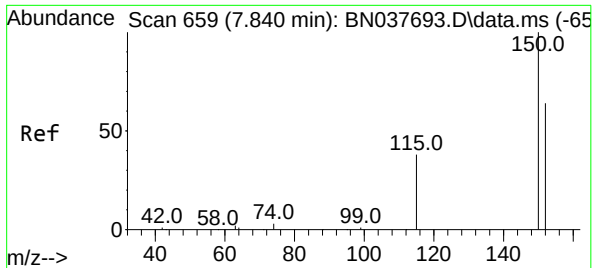
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037843.D
Acq On : 20 Sep 2025 09:14
Operator : RC/JU
Sample : Q3095-28
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE104D3-20250910

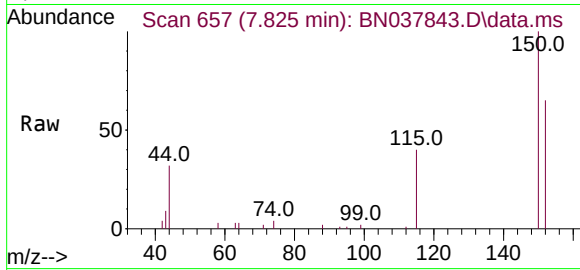
Quant Time: Sep 22 00:37:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration





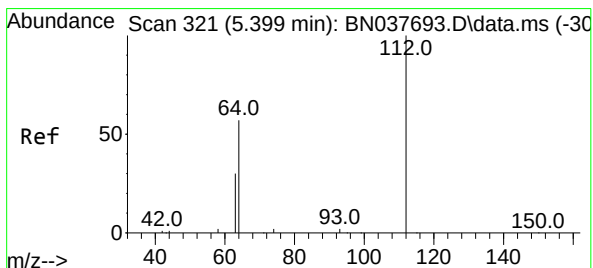
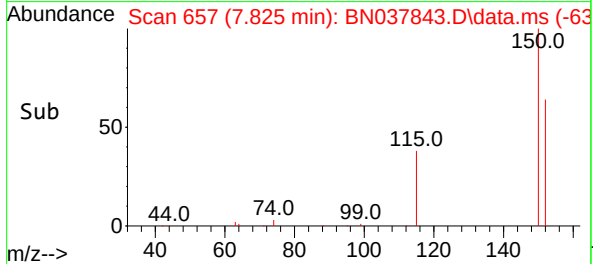
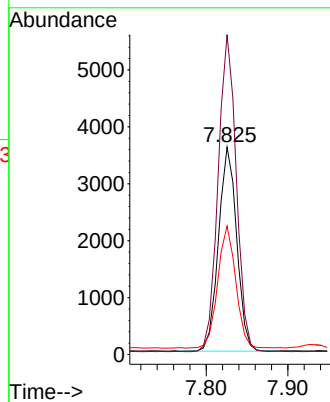
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

Instrument :
BNA_N
ClientSampleId :
RE104D3-20250910



Tgt Ion:152 Resp: 5576

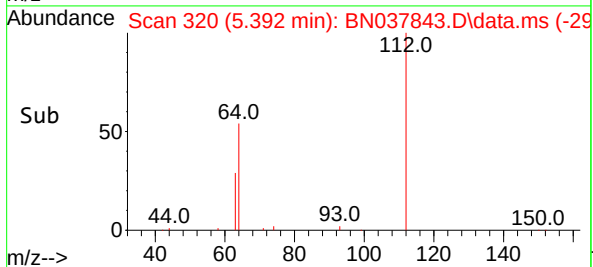
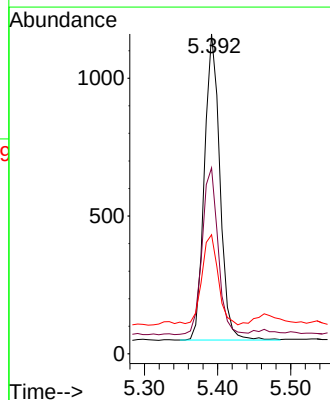
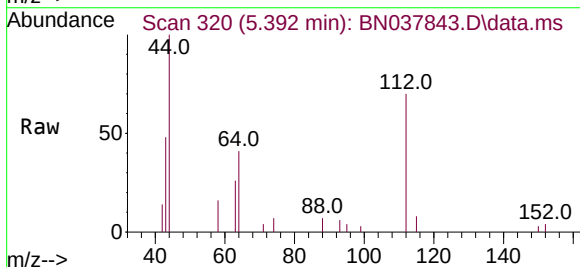
Ion	Ratio	Lower	Upper
152	100		
150	154.2	124.5	186.7
115	62.0	49.2	73.8

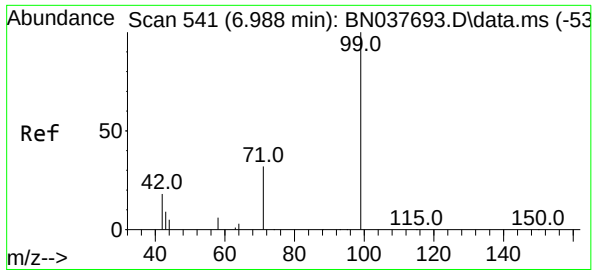


#4
2-Fluorophenol
Concen: 0.128 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

Tgt Ion:112 Resp: 1641

Ion	Ratio	Lower	Upper
112	100		
64	55.9	44.9	67.3
63	30.8	24.7	37.1

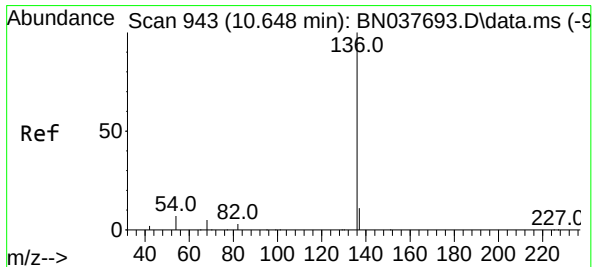
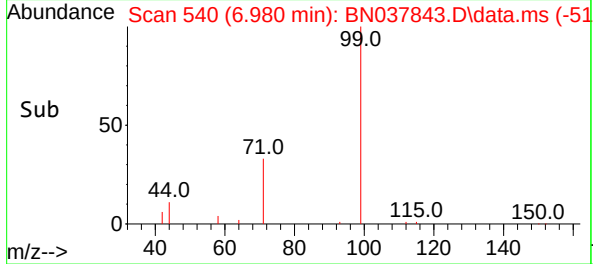
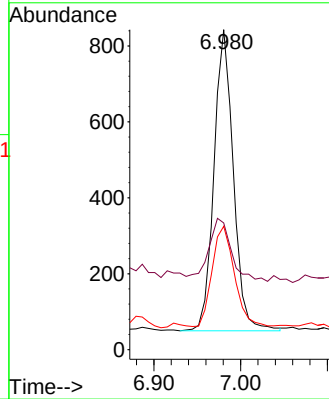
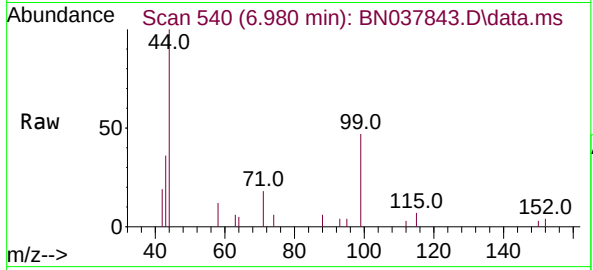




#5
Phenol-d6
Concen: 0.074 ng
RT: 6.980 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

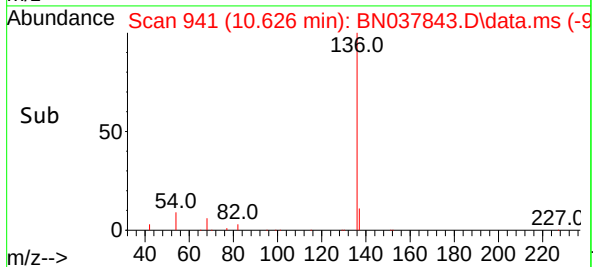
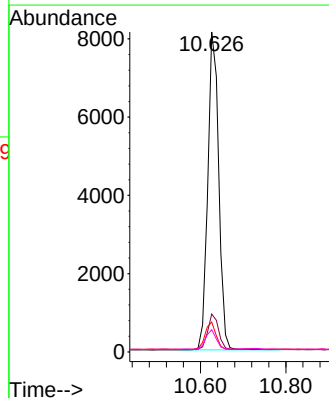
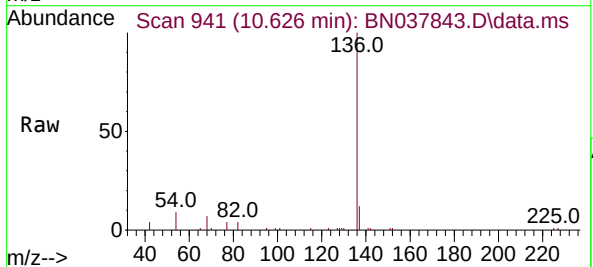
Instrument :
BNA_N
ClientSampleId :
RE104D3-20250910

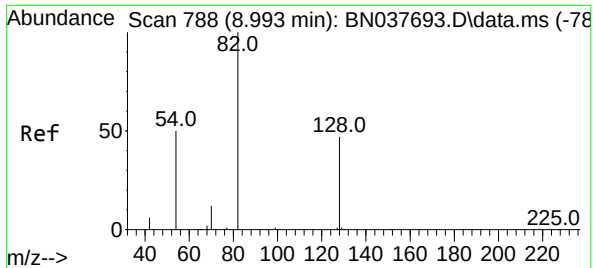
Tgt Ion: 99 Resp: 1234
Ion Ratio Lower Upper
99 100
42 24.6 16.6 24.8
71 38.9 26.7 40.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.021 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

Tgt Ion: 136 Resp: 14489
Ion Ratio Lower Upper
136 100
137 11.8 9.1 13.7
54 9.3 6.3 9.5
68 6.9 5.0 7.4

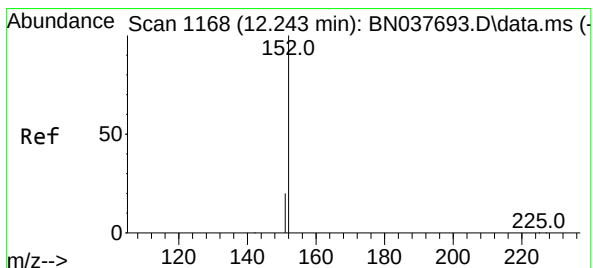
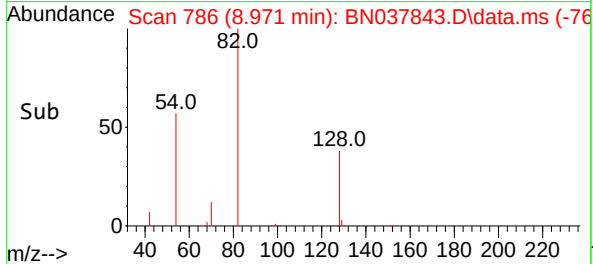
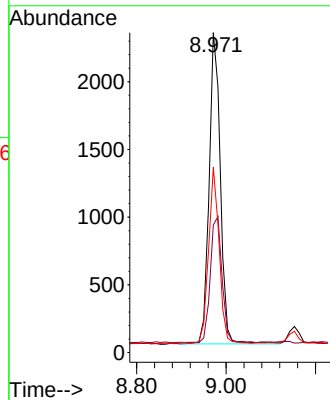
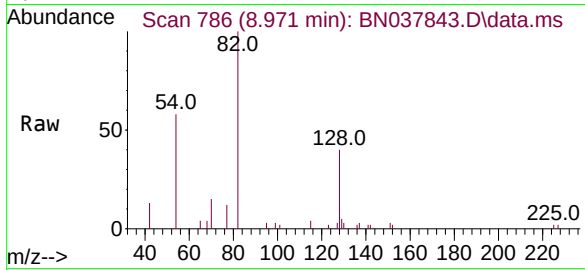




#8
Nitrobenzene-d5
Concen: 0.381 ng
RT: 8.971 min Scan# 788
Delta R.T. -0.021 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

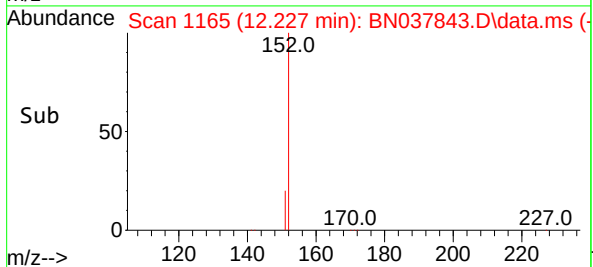
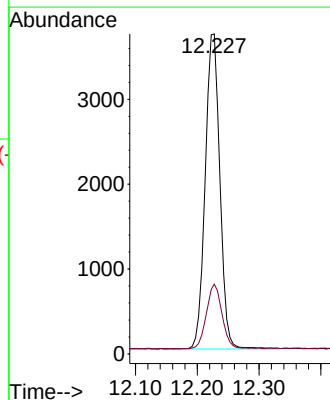
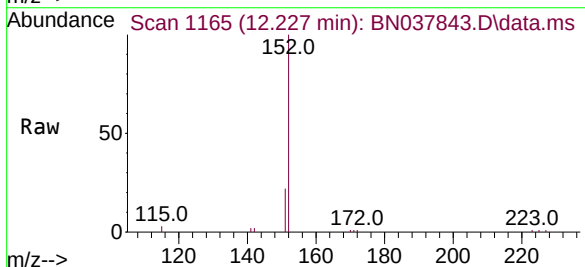
Instrument :
BNA_N
ClientSampleId :
RE104D3-20250910

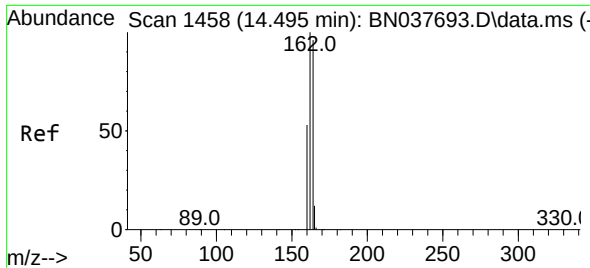
Tgt Ion:	82	Resp:	4034
Ion Ratio	Lower	Upper	
82	100		
128	39.9	38.3	57.5
54	57.9	41.4	62.2



#11
2-Methylnaphthalene-d10
Concen: 0.320 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

Tgt Ion:	152	Resp:	6145
Ion Ratio	Lower	Upper	
152	100		
151	21.8	17.0	25.6

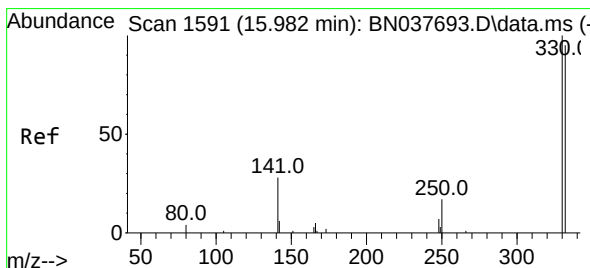
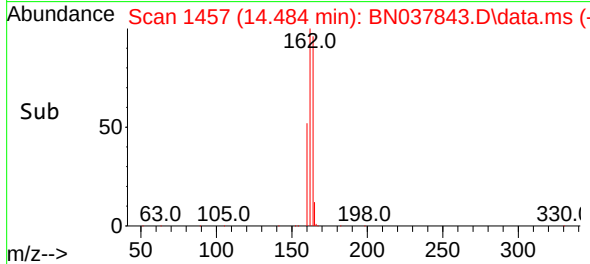
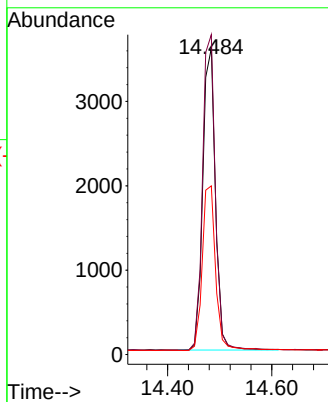
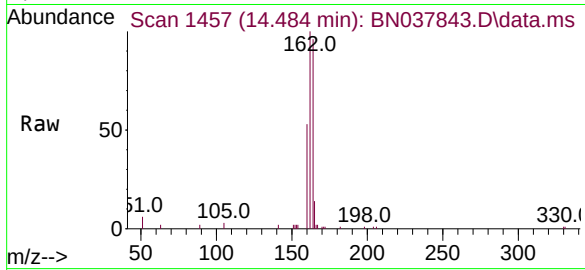




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1458
Delta R.T. -0.011 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

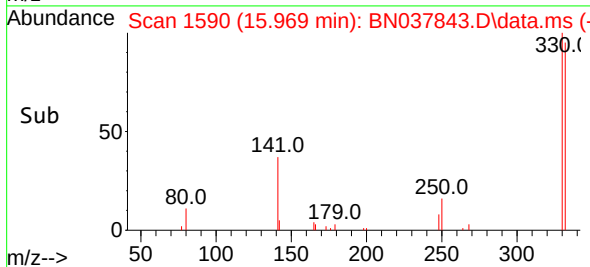
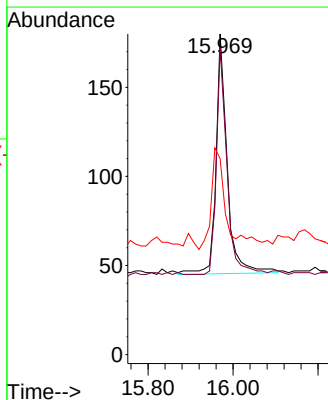
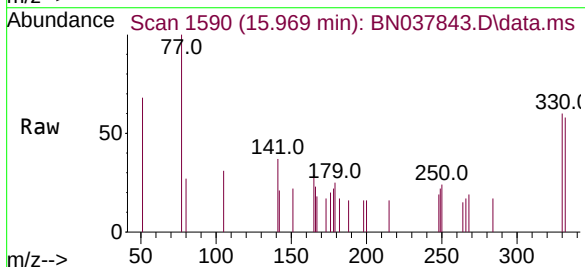
Instrument :
BNA_N
ClientSampleId :
RE104D3-20250910

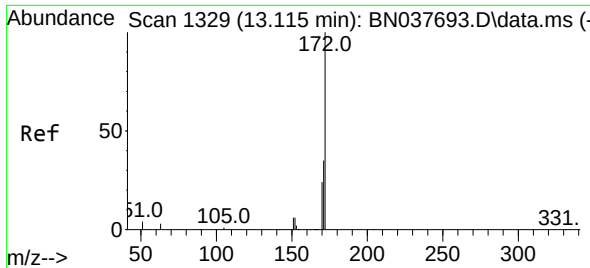
Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.5	83.1	124.7
160	55.1	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.157 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

Tgt Ion	Ratio	Lower	Upper
330	100		
332	88.7	75.3	112.9
141	48.2	35.0	52.4

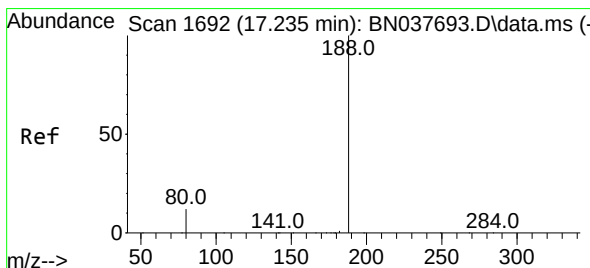
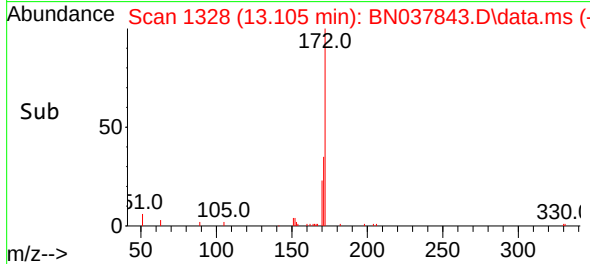
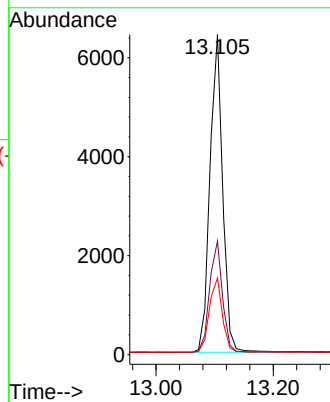
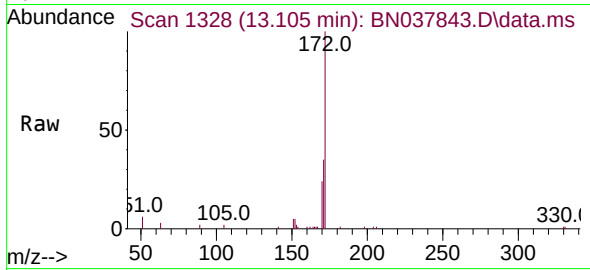




#15
2-Fluorobiphenyl
Concen: 0.384 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

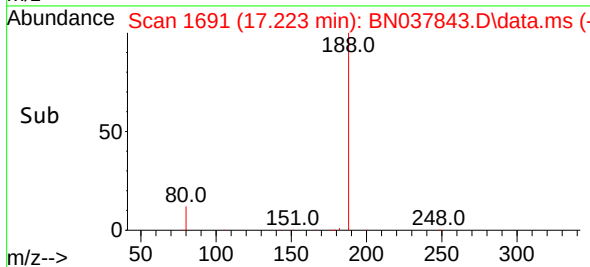
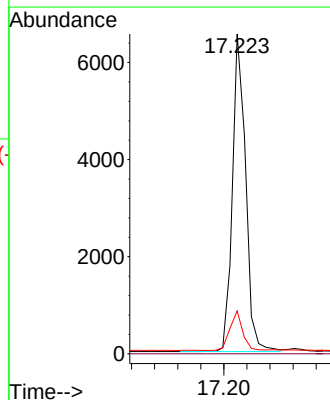
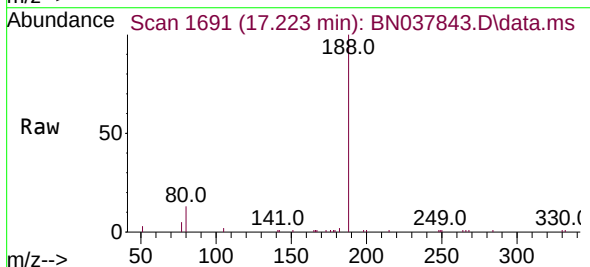
Instrument :
BNA_N
ClientSampleId :
RE104D3-20250910

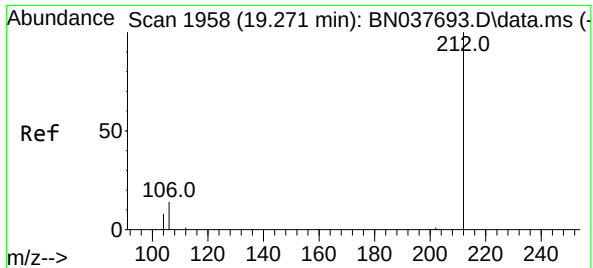
Tgt Ion:	172	Resp:	9686
Ion Ratio	Lower	Upper	
172	100		
171	35.5	28.6	43.0
170	23.9	19.8	29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.013 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

Tgt Ion:	188	Resp:	10379
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	13.4	10.6	15.8





#27

Fluoranthene-d10

Concen: 0.362 ng

RT: 19.257 min Scan# 19

Delta R.T. -0.014 min

Lab File: BN037843.D

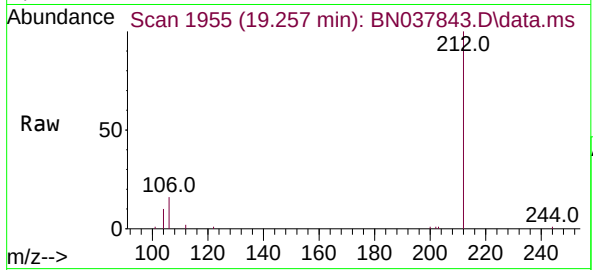
Acq: 20 Sep 2025 09:14

Instrument :

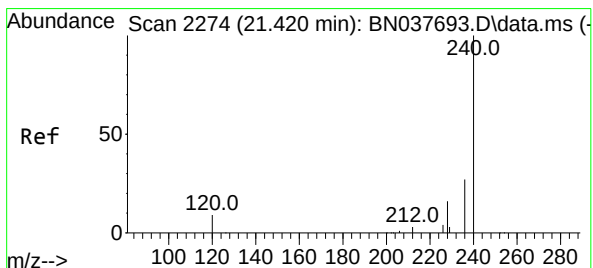
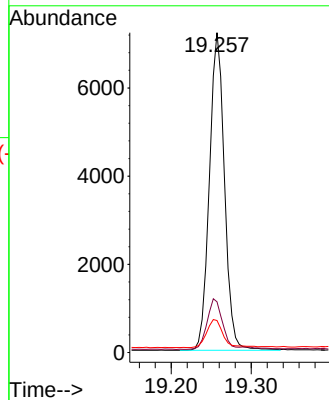
BNA_N

ClientSampleId :

RE104D3-20250910



Tgt Ion:	212	Resp:	9444
Ion Ratio	Lower	Upper	
212	100		
106	16.3	12.2	18.2
104	9.8	6.9	10.3



#29

Chrysene-d12

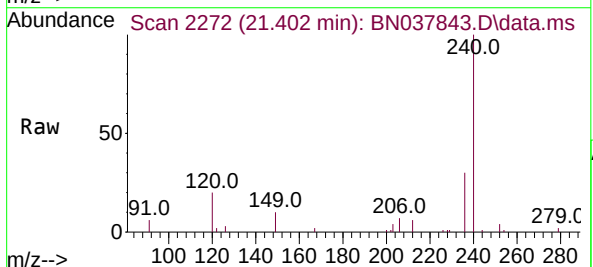
Concen: 0.400 ng

RT: 21.402 min Scan# 2272

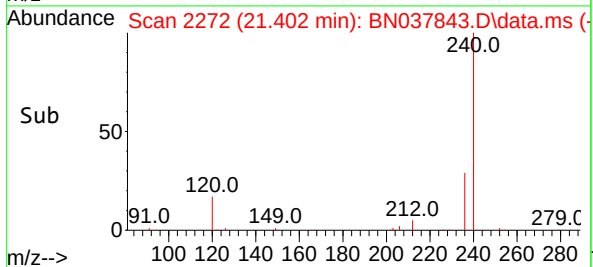
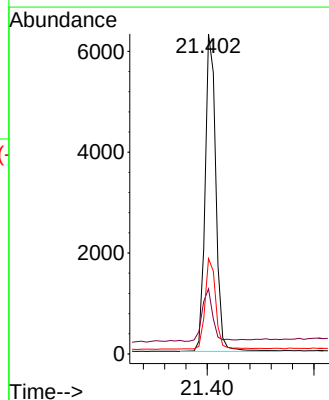
Delta R.T. -0.018 min

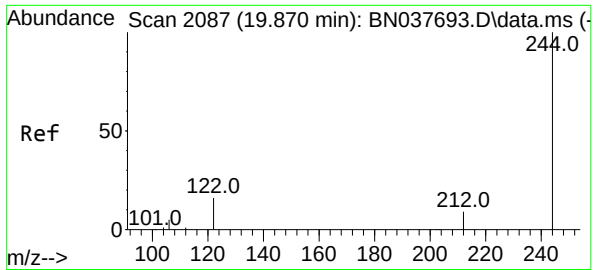
Lab File: BN037843.D

Acq: 20 Sep 2025 09:14



Tgt Ion:	240	Resp:	8825
Ion Ratio	Lower	Upper	
240	100		
120	20.3	9.2	13.8
236	29.8	22.6	33.8

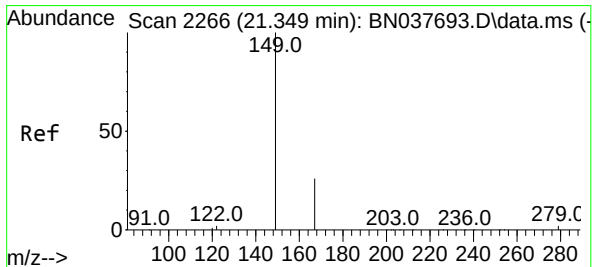
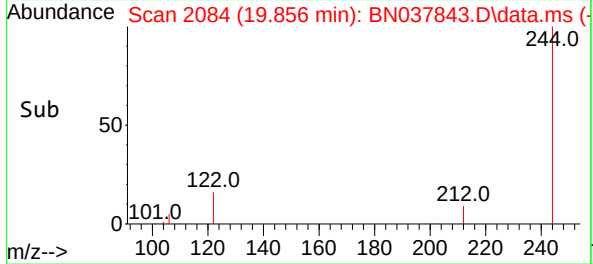
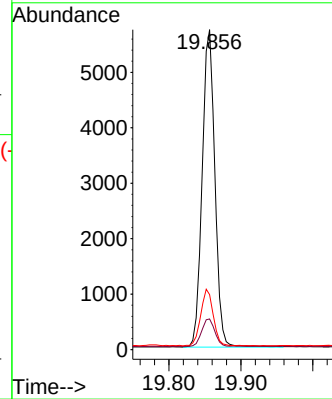
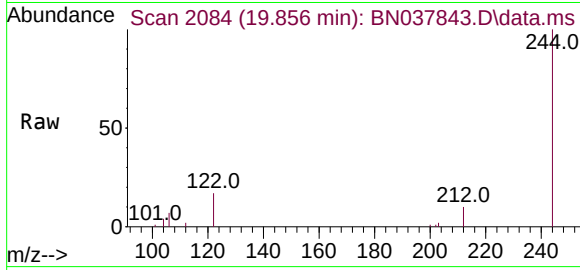




#31
Terphenyl-d14
Concen: 0.391 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

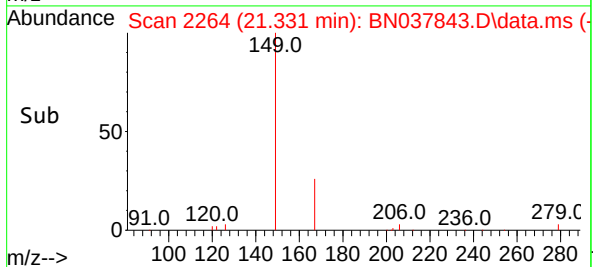
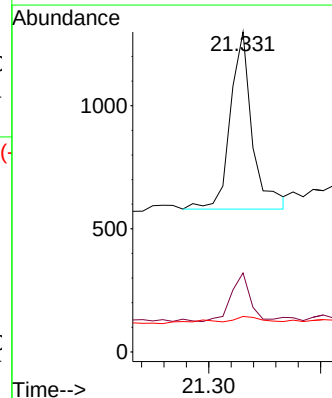
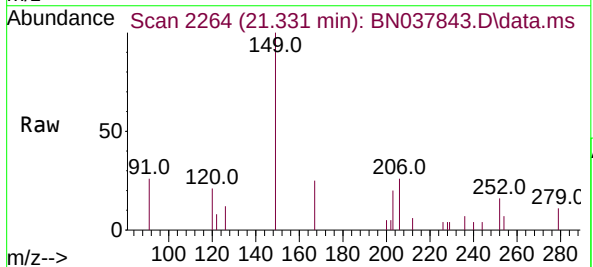
Instrument :
BNA_N
ClientSampleId :
RE104D3-20250910

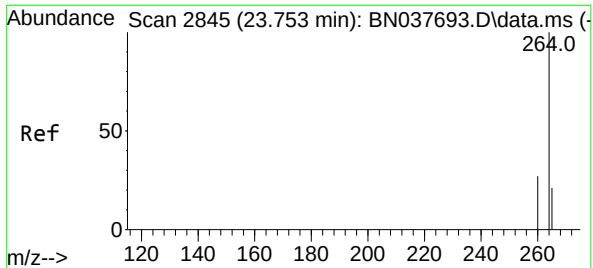
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.5	11.3
122	17.2	13.2	19.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.107 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

Tgt Ion	Ratio	Lower	Upper
149	100		
167	24.2	20.8	31.2
279	3.2	3.3	4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.736 min Scan# 28

Delta R.T. -0.018 min

Lab File: BN037843.D

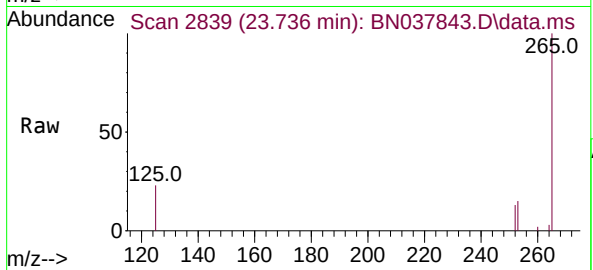
Acq: 20 Sep 2025 09:14

Instrument :

BNA_N

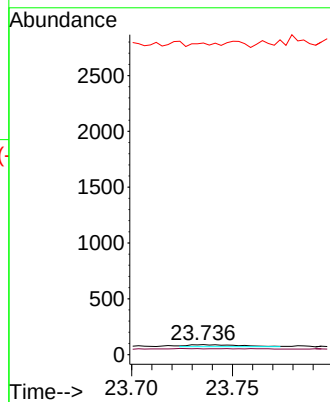
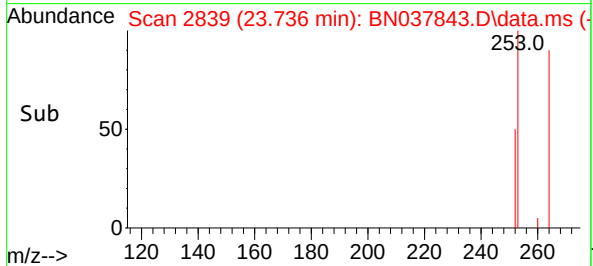
ClientSampleId :

RE104D3-20250910



Tgt Ion:264 Resp: 32

Ion	Ratio	Lower	Upper
264	100		
260	57.3	21.8	32.8#
265	3137.1	39.4	59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE122D2-20250910	SDG No.:	Q3095
Lab Sample ID:	Q3095-29	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
BN037797.D	1	09/15/25 12:00	09/19/25 04:00	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.80		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	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		98%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		53 - 106		101%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		98%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6380	7.833				
1146-65-2	Naphthalene-d8	15400	10.637				
15067-26-2	Acenaphthene-d10	6530	14.484				
1517-22-2	Phenanthrene-d10	11200	17.236				
1719-03-5	Chrysene-d12	9480	21.411				
1520-96-3	Perylene-d12	9340	23.742				

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\BN091825\
 Data File : BN037797.D
 Acq On : 19 Sep 2025 04:00
 Operator : RC/JU
 Sample : Q3095-29
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE122D2-20250910

Quant Time: Sep 19 04:36:24 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

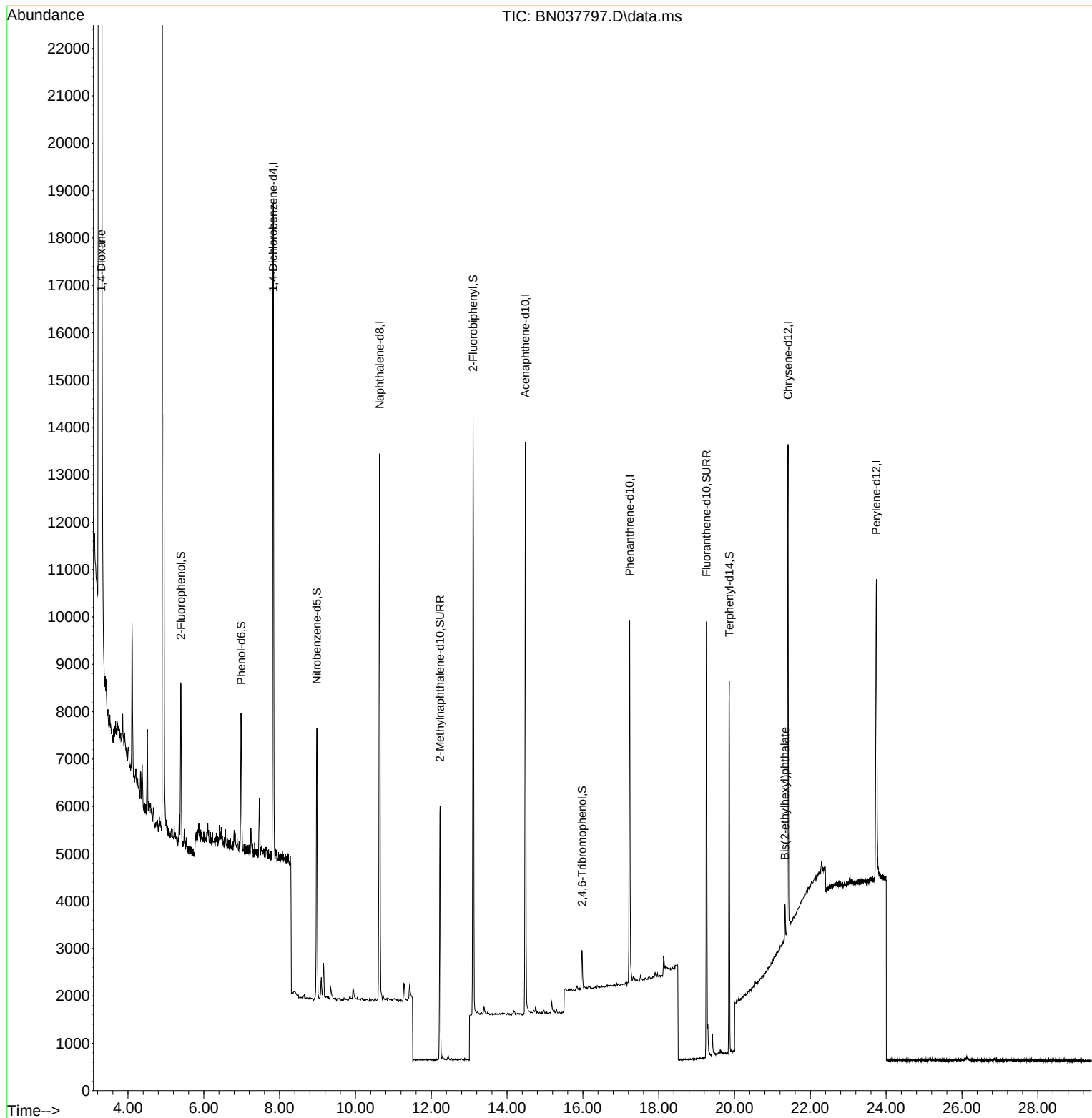
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	6378	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	15422	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	6530	0.400	ng	-0.01
19) Phenanthrene-d10	17.236	188	11243	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	9477	0.400	ng	0.00
35) Perylene-d12	23.742	264	9344	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2888	0.197	ng	0.00
5) Phenol-d6	6.988	99	2589	0.136	ng	0.00
8) Nitrobenzene-d5	8.982	82	4432	0.393	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	7126	0.349	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	620	0.364	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	11049	0.405	ng	-0.01
27) Fluoranthene-d10	19.262	212	10127	0.359	ng	0.00
31) Terphenyl-d14	19.861	244	7545	0.392	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	24520	3.691	ng	95
34) Bis(2-ethylhexyl)phtha...	21.331	149	849	0.087	ng	# 96

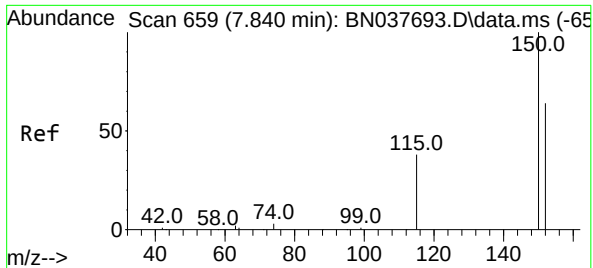
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037797.D
Acq On : 19 Sep 2025 04:00
Operator : RC/JU
Sample : Q3095-29
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE122D2-20250910

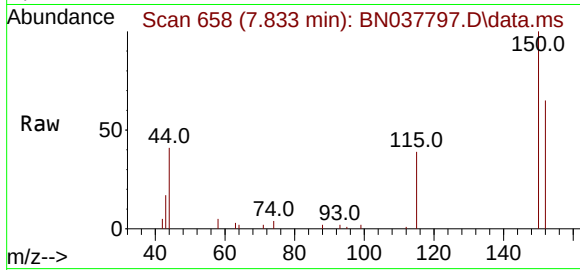
Quant Time: Sep 19 04:36:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



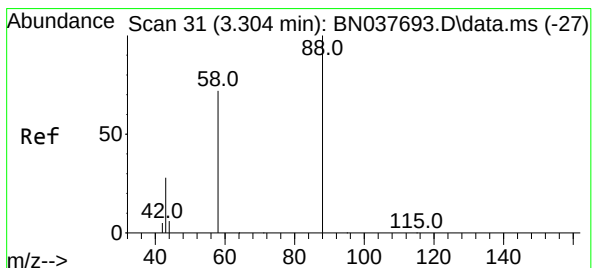
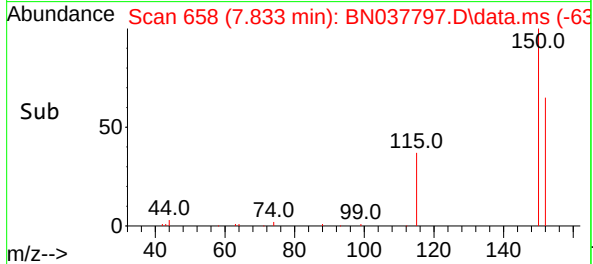
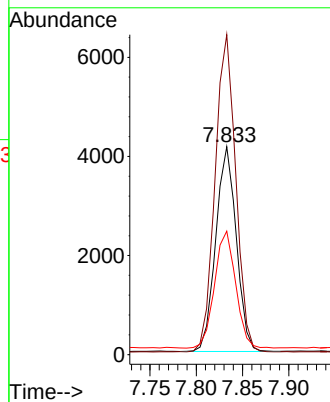


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

Instrument :
BNA_N
ClientSampleId :
RE122D2-20250910

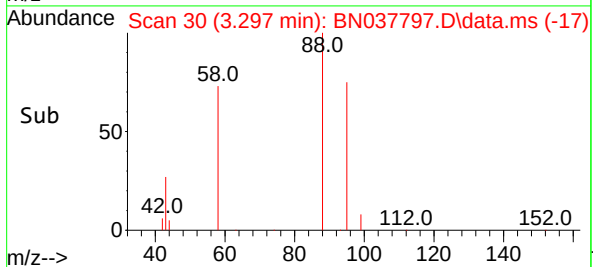
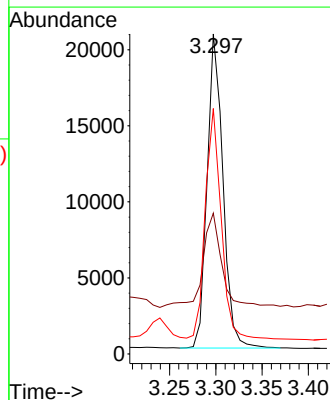
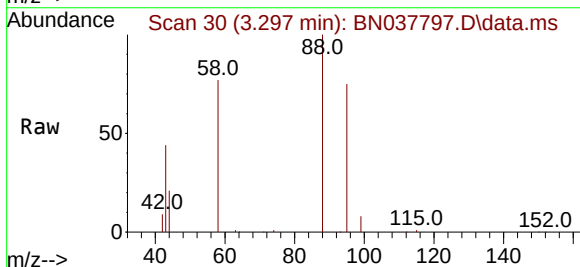


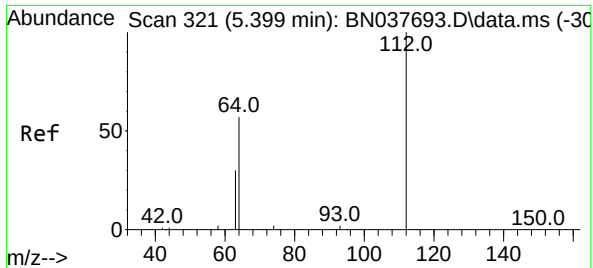
Tgt Ion: 152 Resp: 6378
Ion Ratio Lower Upper
152 100
150 153.8 124.5 186.7
115 59.4 49.2 73.8



#2
1,4-Dioxane
Concen: 3.691 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

Tgt Ion: 88 Resp: 24520
Ion Ratio Lower Upper
88 100
43 36.5 26.8 40.2
58 73.3 61.9 92.9

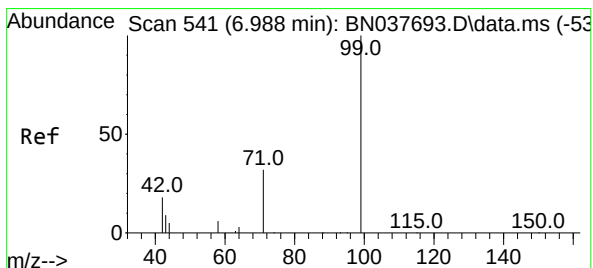
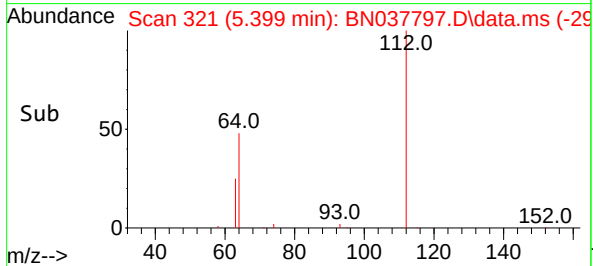
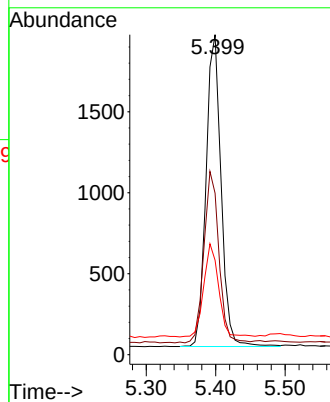
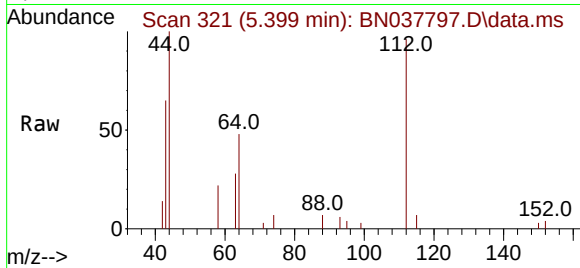




#4
2-Fluorophenol
Concen: 0.197 ng
RT: 5.399 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

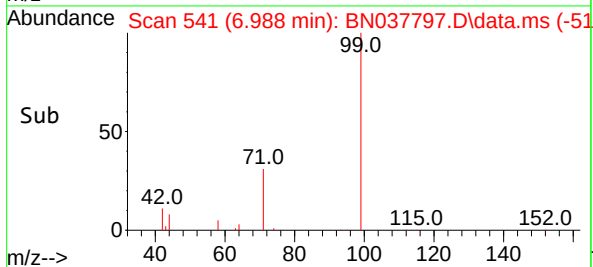
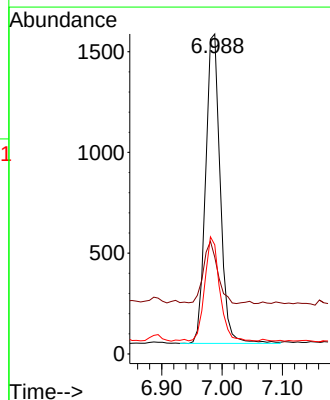
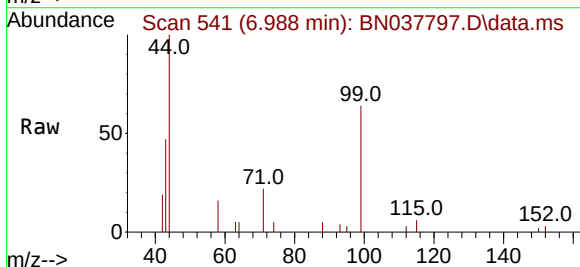
Instrument :
BNA_N
ClientSampleId :
RE122D2-20250910

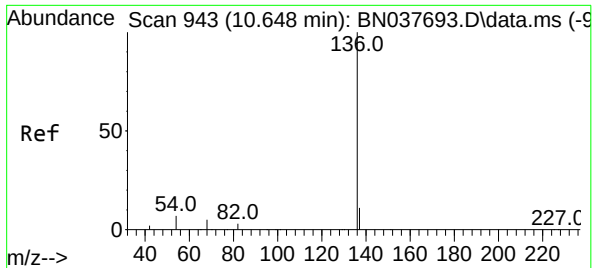
Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.1	44.9	67.3
63	30.0	24.7	37.1



#5
Phenol-d6
Concen: 0.136 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

Tgt Ion	Ratio	Lower	Upper
99	100		
42	19.5	16.6	24.8
71	34.9	26.7	40.1

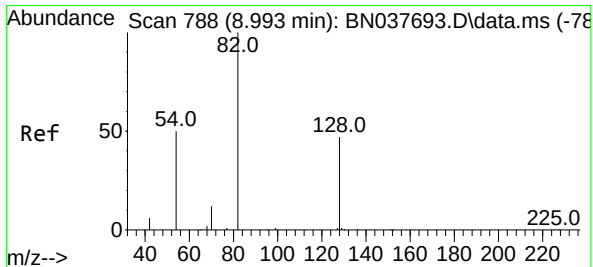
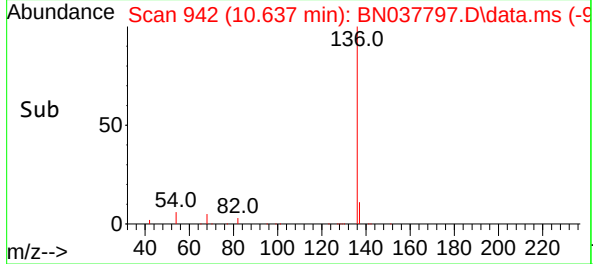
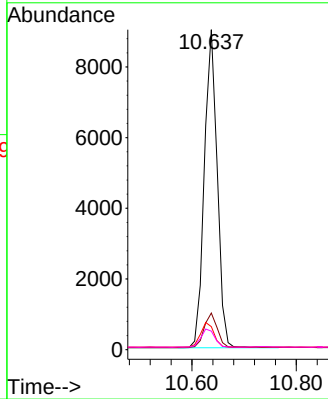
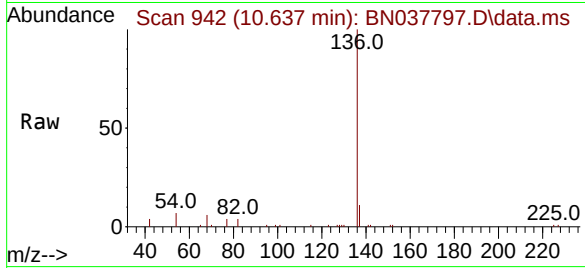




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

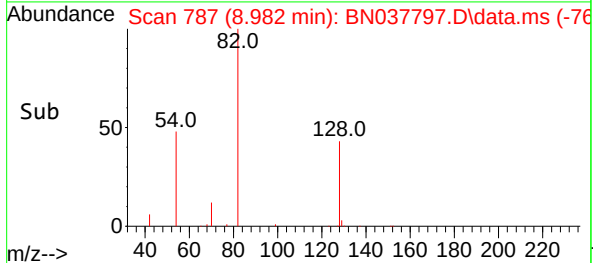
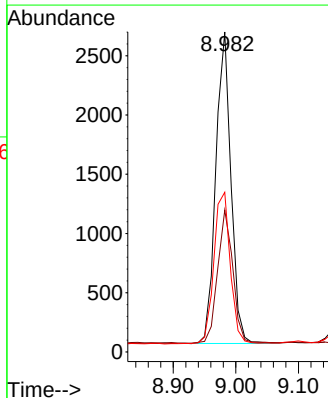
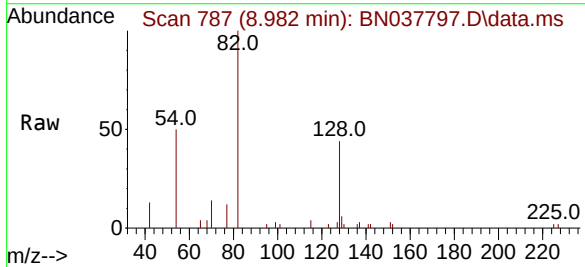
Instrument :
BNA_N
ClientSampleId :
RE122D2-20250910

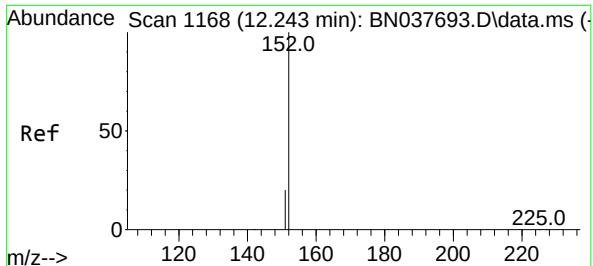
Tgt Ion:	136	Resp:	15422
Ion Ratio	Lower	Upper	
136	100		
137	11.5	9.1	13.7
54	7.2	6.3	9.5
68	5.8	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.393 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

Tgt Ion:	82	Resp:	4432
Ion Ratio	Lower	Upper	
82	100		
128	44.4	38.3	57.5
54	49.9	41.4	62.2

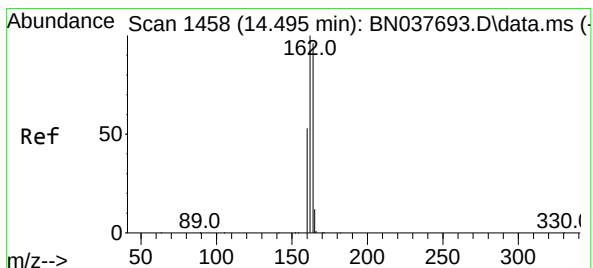
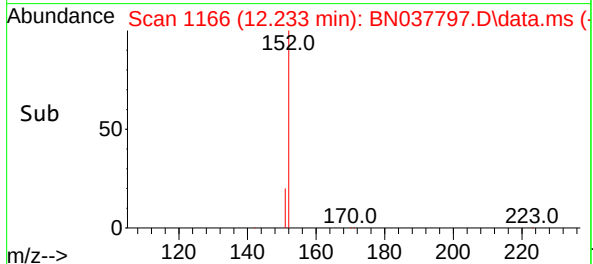
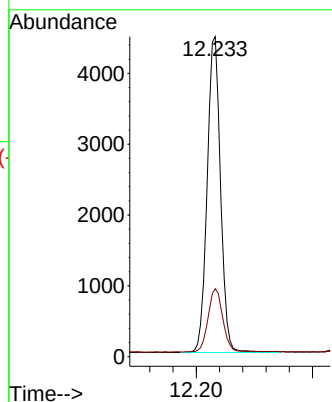
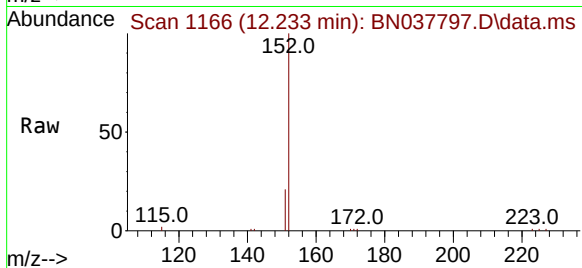




#11
2-Methylnaphthalene-d10
Concen: 0.349 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

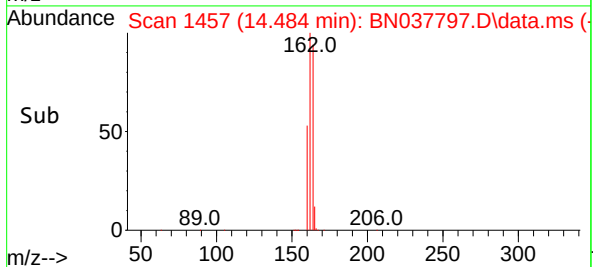
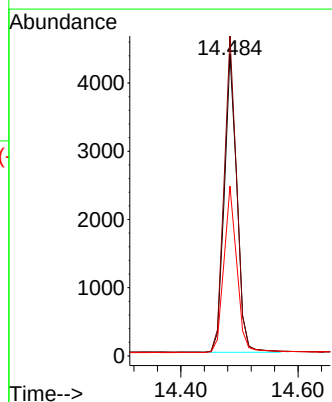
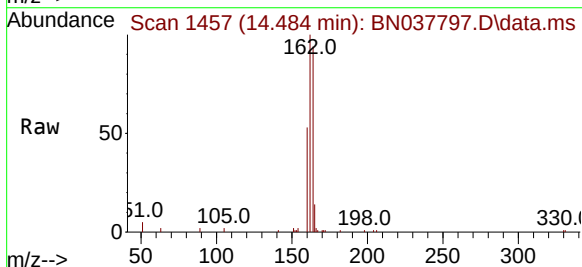
Instrument :
BNA_N
ClientSampleId :
RE122D2-20250910

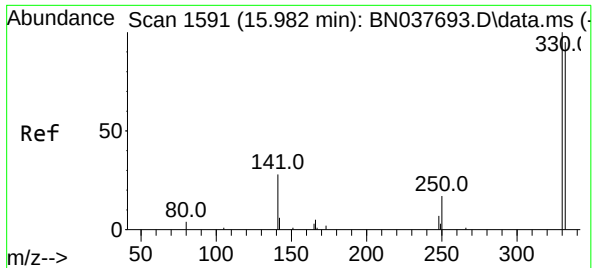
Tgt Ion:152 Resp: 7126
Ion Ratio Lower Upper
152 100
151 22.1 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

Tgt Ion:164 Resp: 6530
Ion Ratio Lower Upper
164 100
162 105.9 83.1 124.7
160 56.2 44.3 66.5

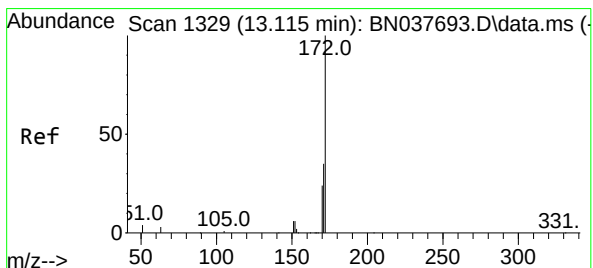
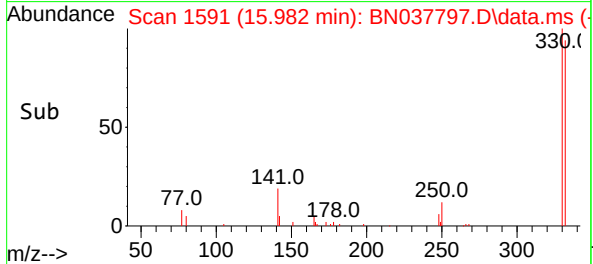
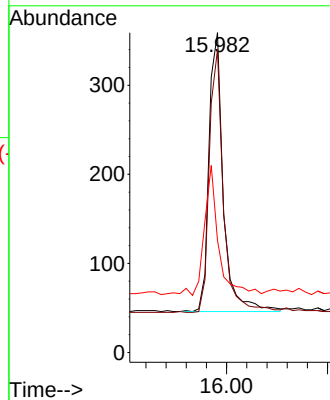
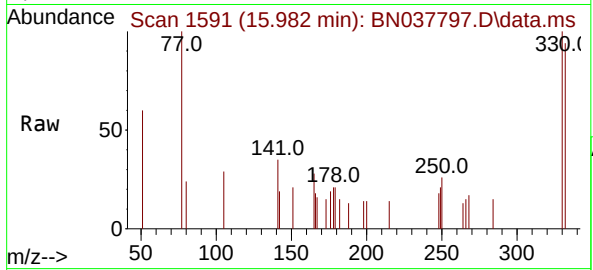




#14
2,4,6-Tribromophenol
Concen: 0.364 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

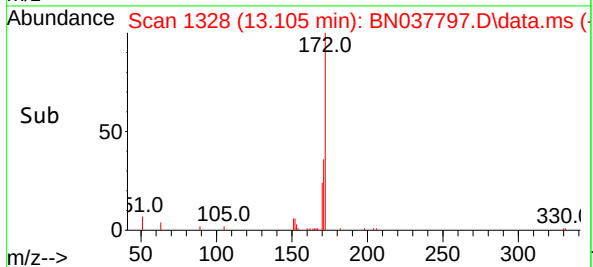
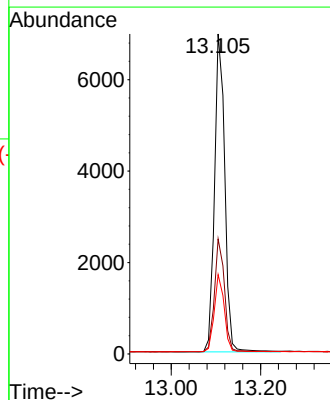
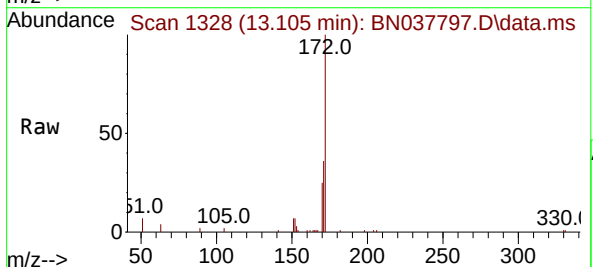
Instrument :
BNA_N
ClientSampleId :
RE122D2-20250910

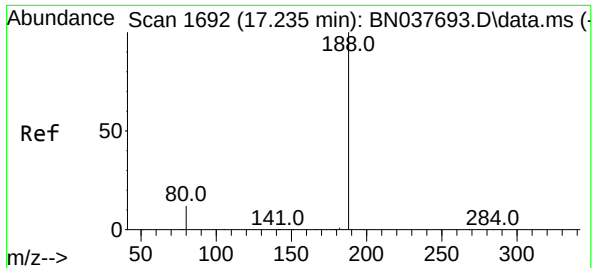
Tgt Ion:330 Resp: 620
Ion Ratio Lower Upper
330 100
332 92.6 75.3 112.9
141 43.1 35.0 52.4



#15
2-Fluorobiphenyl
Concen: 0.405 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

Tgt Ion:172 Resp: 11049
Ion Ratio Lower Upper
172 100
171 36.0 28.6 43.0
170 24.8 19.8 29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.236 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037797.D

Acq: 19 Sep 2025 04:00

Instrument :

BNA_N

ClientSampleId :

RE122D2-20250910

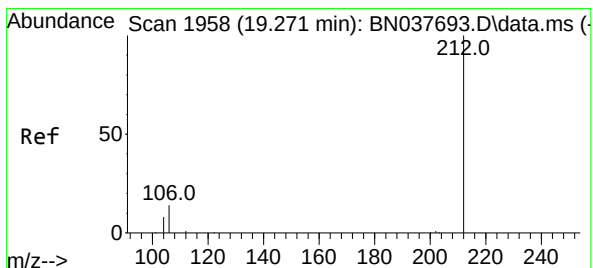
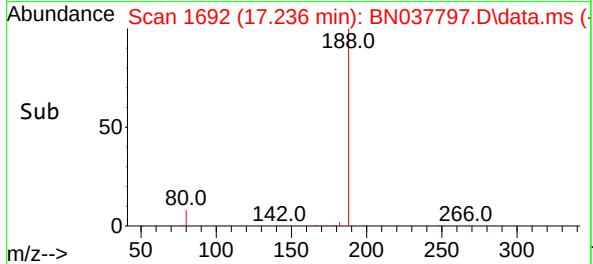
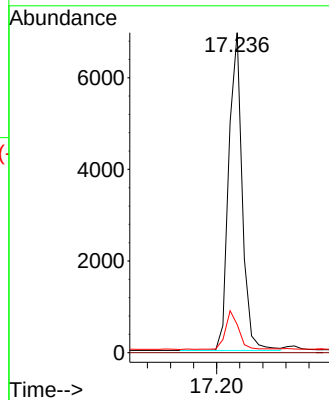
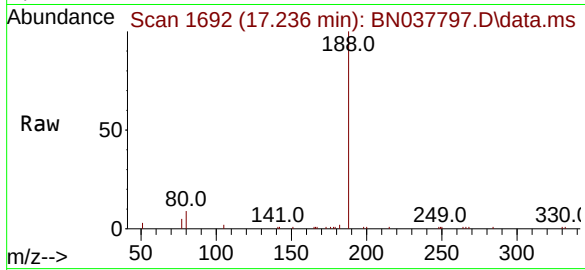
Tgt Ion:188 Resp: 11243

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.8 10.6 15.8#



#27

Fluoranthene-d10

Concen: 0.359 ng

RT: 19.262 min Scan# 1956

Delta R.T. -0.009 min

Lab File: BN037797.D

Acq: 19 Sep 2025 04:00

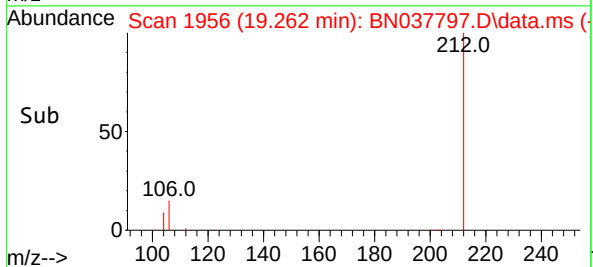
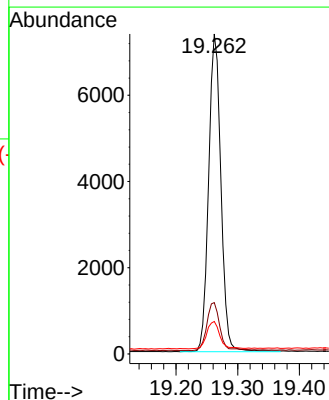
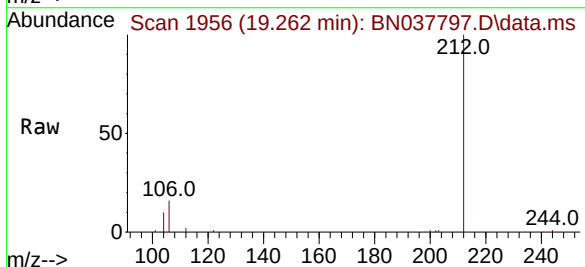
Tgt Ion:212 Resp: 10127

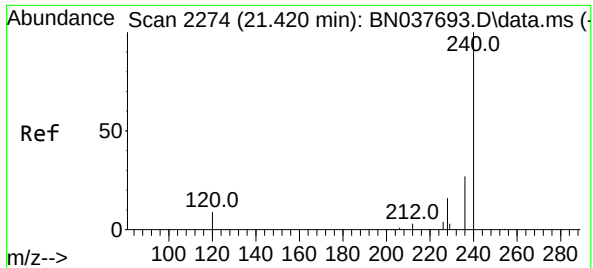
Ion Ratio Lower Upper

212 100

106 16.2 12.2 18.2

104 9.2 6.9 10.3

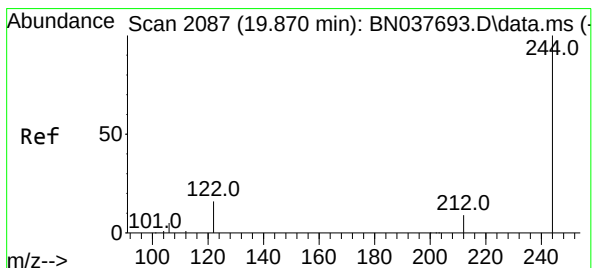
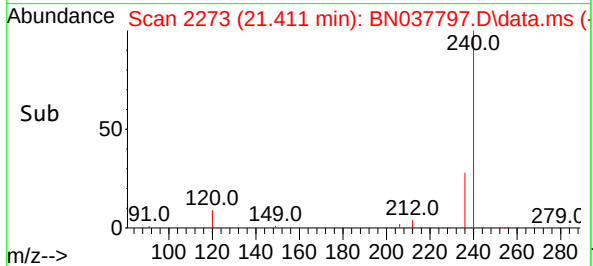
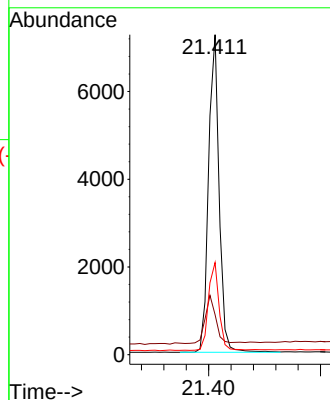
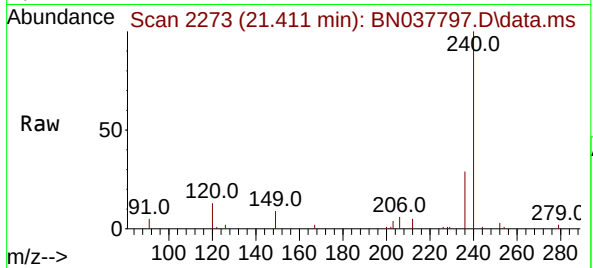




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

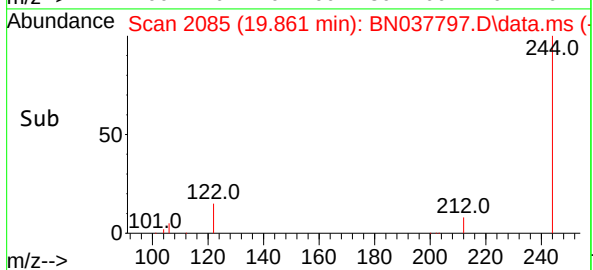
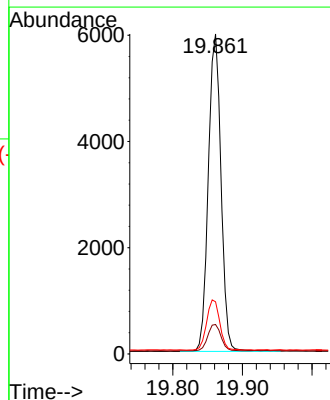
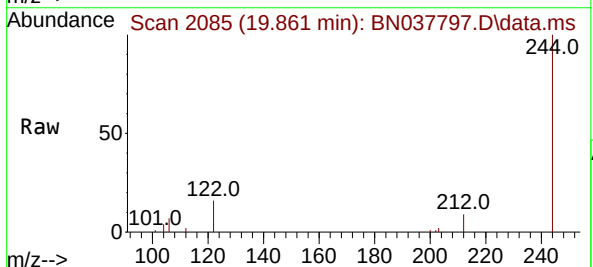
Instrument :
BNA_N
ClientSampleId :
RE122D2-20250910

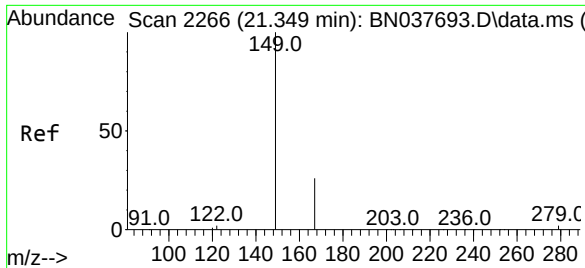
Tgt Ion:240 Resp: 9477
Ion Ratio Lower Upper
240 100
120 12.5 9.2 13.8
236 28.8 22.6 33.8



#31
Terphenyl-d14
Concen: 0.392 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

Tgt Ion:244 Resp: 7545
Ion Ratio Lower Upper
244 100
212 9.2 7.5 11.3
122 16.3 13.2 19.8

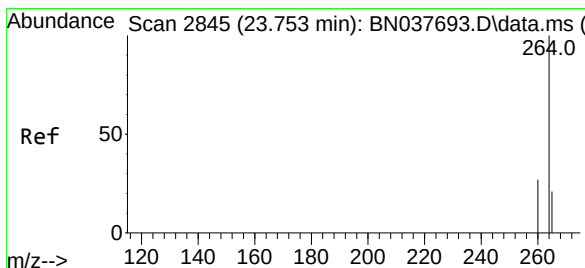
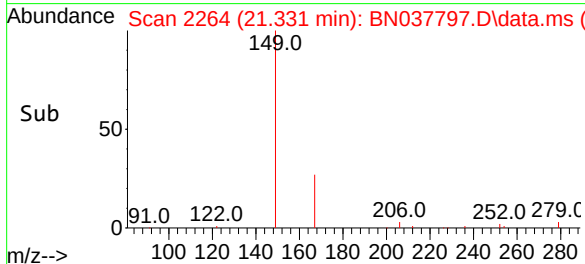
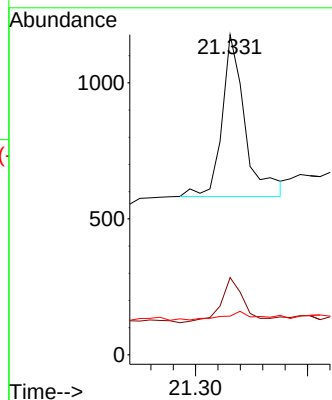
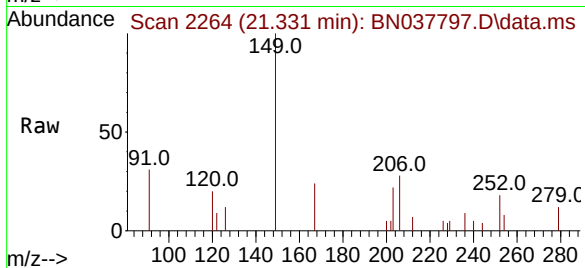




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.087 ng
RT: 21.331 min Scan# 2133
Delta R.T. -0.018 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

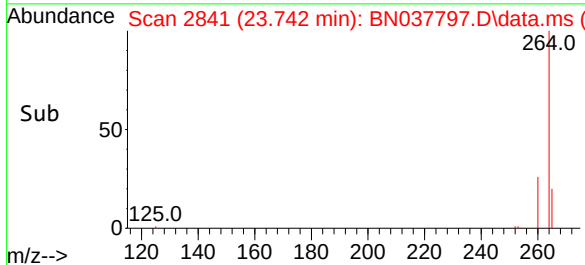
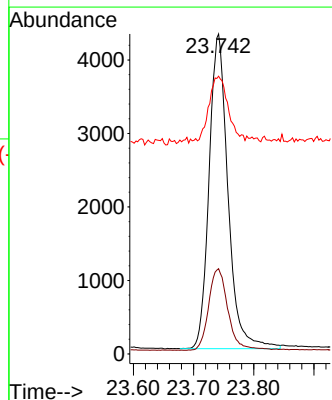
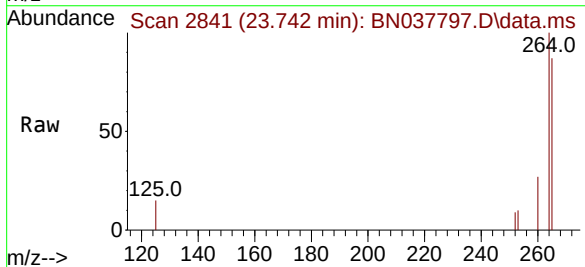
Instrument :
BNA_N
ClientSampleId :
RE122D2-20250910

Tgt Ion:149 Resp: 849
Ion Ratio Lower Upper
149 100
167 28.0 20.8 31.2
279 6.6 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.742 min Scan# 2841
Delta R.T. -0.012 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

Tgt Ion:264 Resp: 9344
Ion Ratio Lower Upper
264 100
260 26.7 21.8 32.8
265 86.8 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE104D1-20250910	SDG No.:	Q3095
Lab Sample ID:	Q3095-30	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
BN037798.D	1	09/15/25 12:00	09/19/25 04:37	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.00		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		83%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		92%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		95%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6790	7.833				
1146-65-2	Naphthalene-d8	16400	10.637				
15067-26-2	Acenaphthene-d10	7130	14.484				
1517-22-2	Phenanthrene-d10	12500	17.235				
1719-03-5	Chrysene-d12	10400	21.411				
1520-96-3	Perylene-d12	10200	23.741				

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\BN091825\
 Data File : BN037798.D
 Acq On : 19 Sep 2025 04:37
 Operator : RC/JU
 Sample : Q3095-30
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE104D1-20250910

Quant Time: Sep 19 07:42:23 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

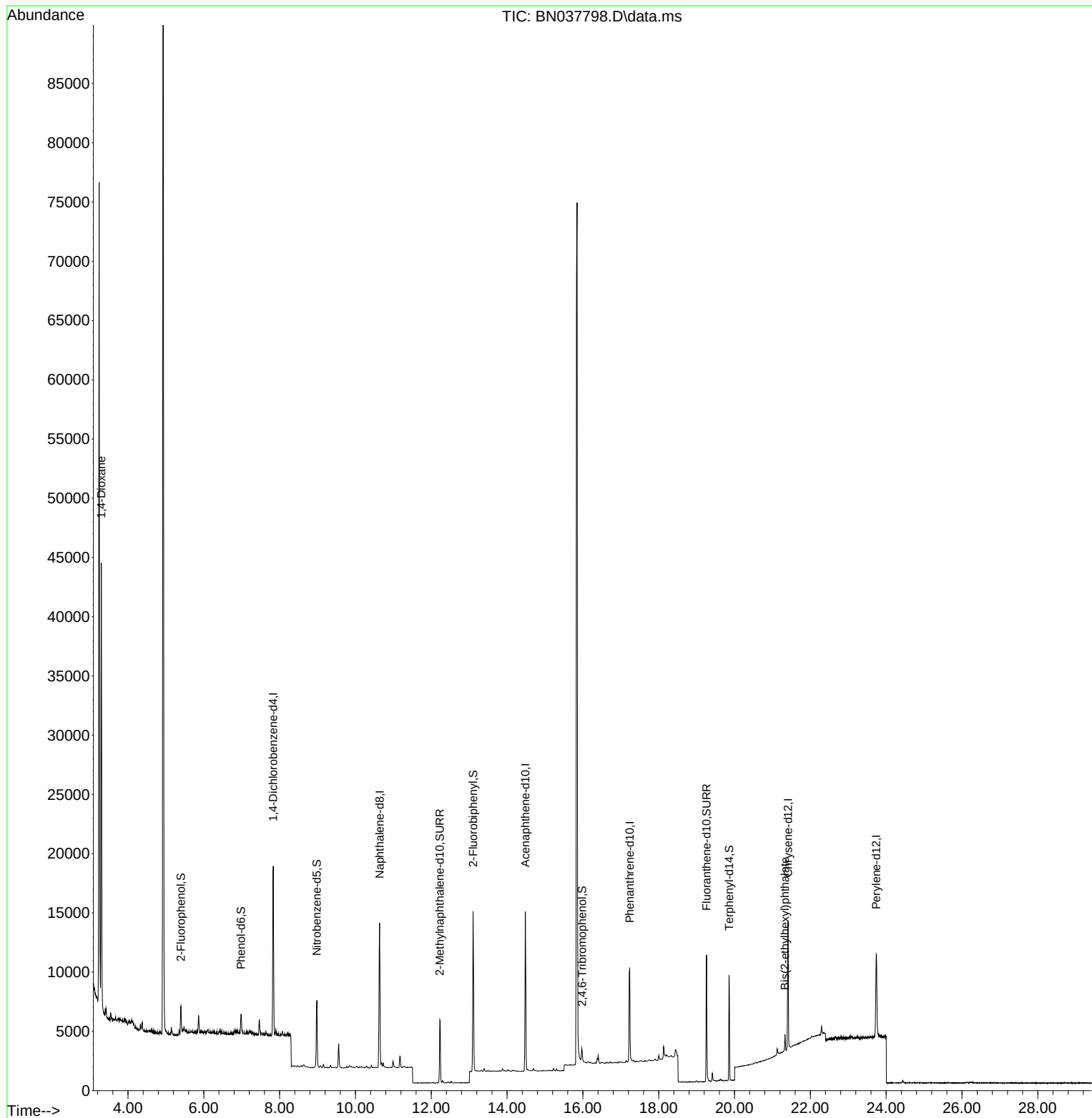
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	6794	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	16429	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	7128	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	12460	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	10431	0.400	ng	0.00
35) Perylene-d12	23.741	264	10216	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	1990	0.128	ng	0.00
5) Phenol-d6	6.980	99	1546	0.076	ng	0.00
8) Nitrobenzene-d5	8.982	82	4432	0.369	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	7188	0.330	ng	-0.02
14) 2,4,6-Tribromophenol	15.982	330	711	0.382	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	11119	0.373	ng	-0.01
27) Fluoranthene-d10	19.262	212	11430	0.365	ng	0.00
31) Terphenyl-d14	19.856	244	8081	0.382	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	21323	3.013	ng	95
34) Bis(2-ethylhexyl)phtha...	21.330	149	1275	0.118	ng	98

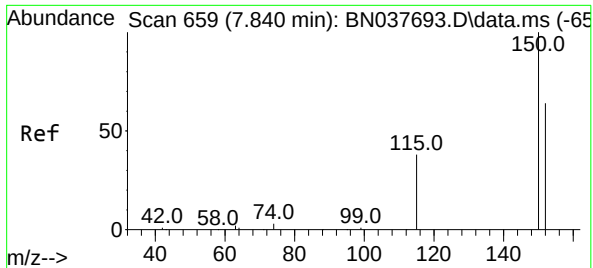
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037798.D
Acq On : 19 Sep 2025 04:37
Operator : RC/JU
Sample : Q3095-30
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE104D1-20250910

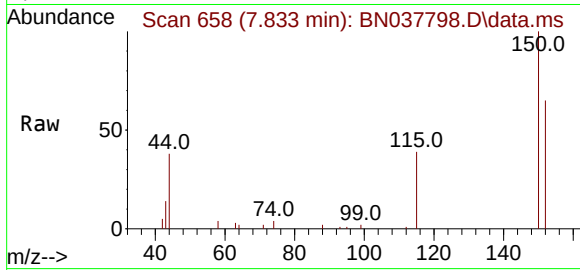
Quant Time: Sep 19 07:42:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



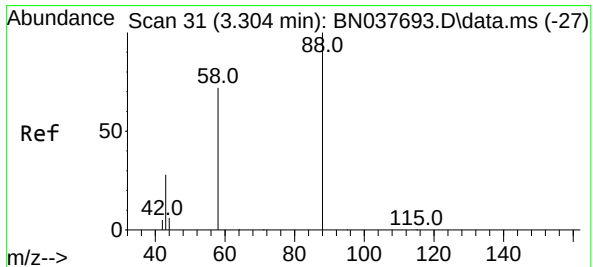
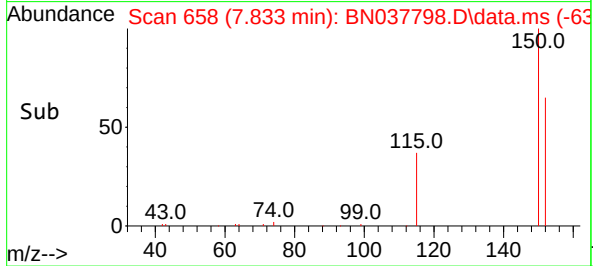
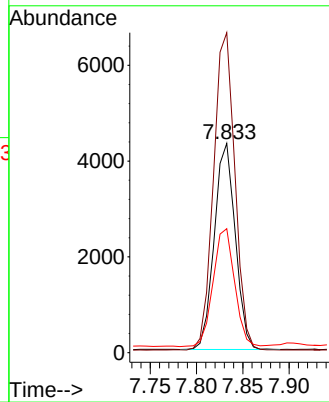


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

Instrument :
BNA_N
ClientSampleId :
RE104D1-20250910

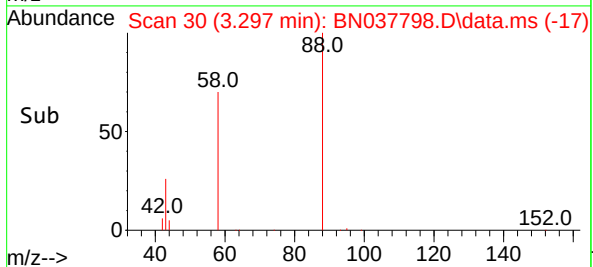
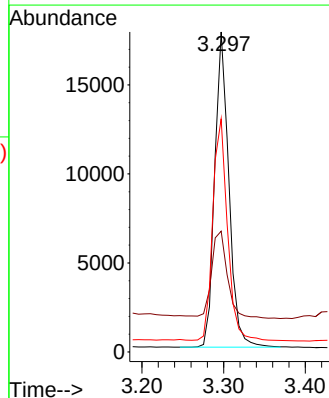
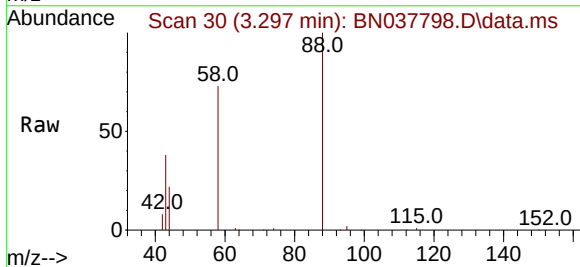


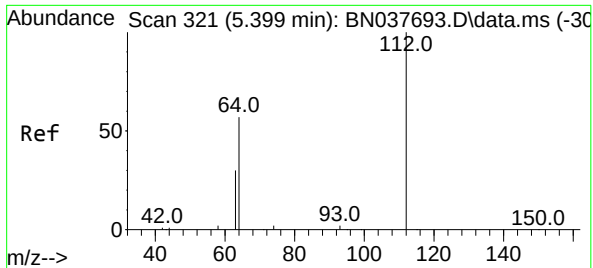
Tgt Ion:152 Resp: 6794
Ion Ratio Lower Upper
152 100
150 153.0 124.5 186.7
115 59.2 49.2 73.8



#2
1,4-Dioxane
Concen: 3.013 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

Tgt Ion: 88 Resp: 21323
Ion Ratio Lower Upper
88 100
43 31.2 26.8 40.2
58 72.7 61.9 92.9

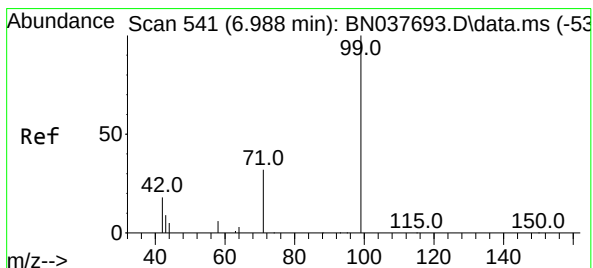
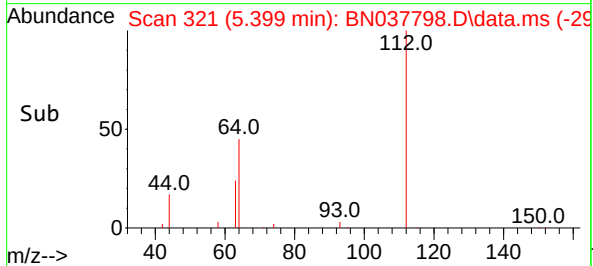
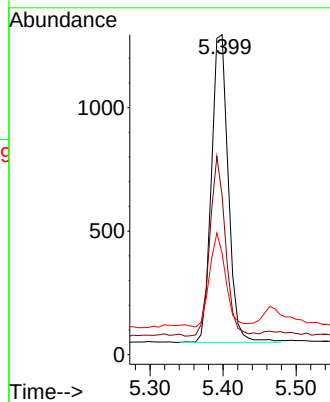
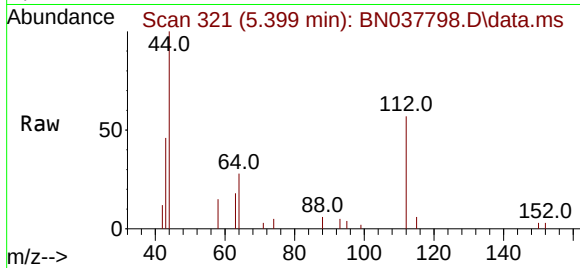




#4
2-Fluorophenol
Concen: 0.128 ng
RT: 5.399 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

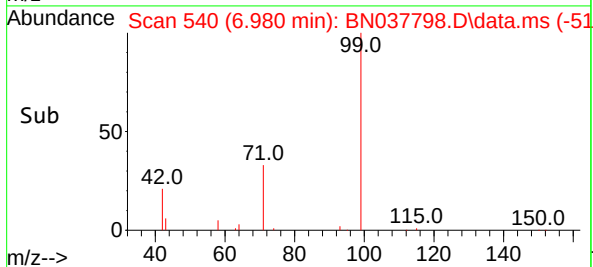
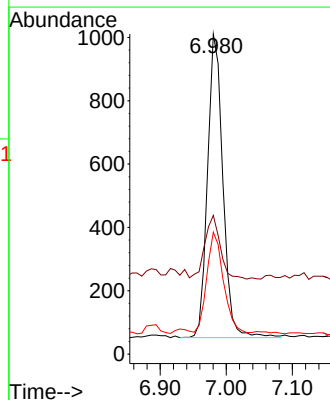
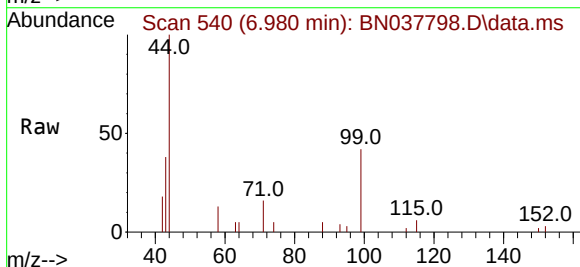
Instrument :
BNA_N
ClientSampleId :
RE104D1-20250910

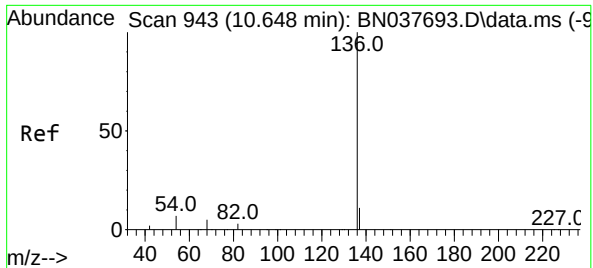
Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.6	44.9	67.3
63	29.3	24.7	37.1



#5
Phenol-d6
Concen: 0.076 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.5	16.6	24.8
71	36.7	26.7	40.1

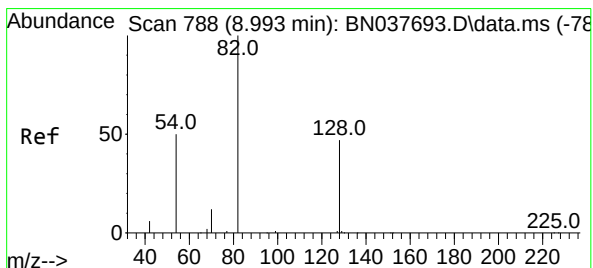
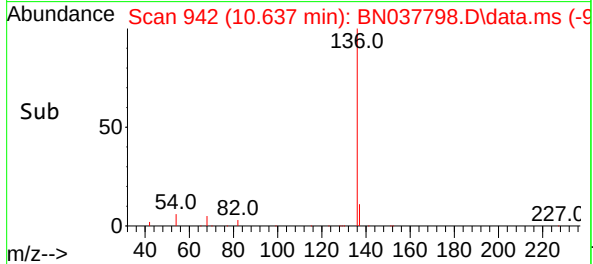
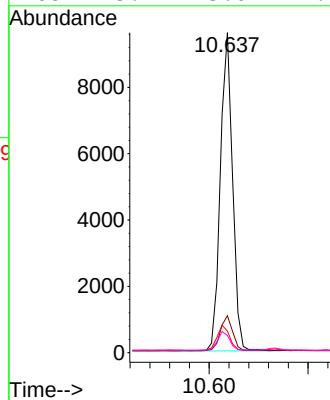
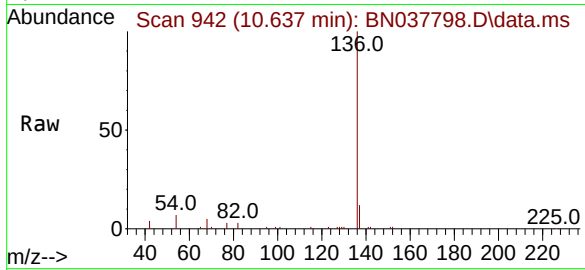




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

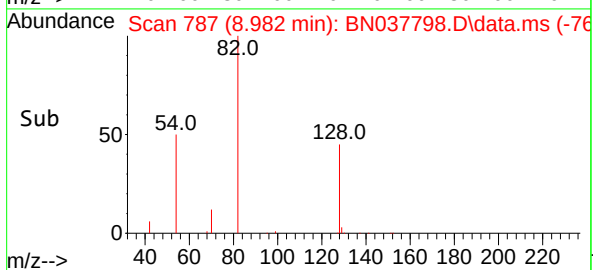
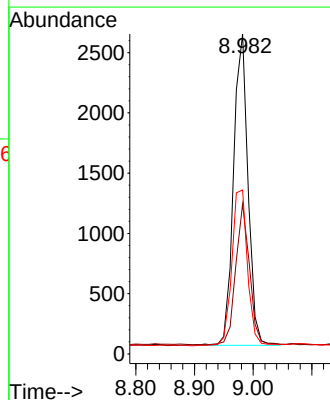
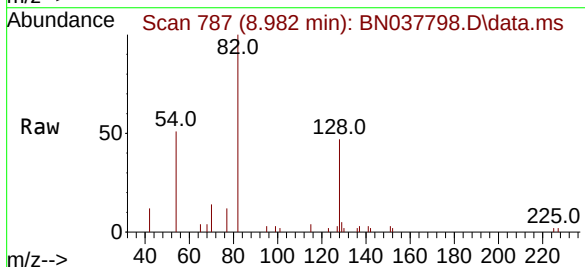
Instrument :
BNA_N
ClientSampleId :
RE104D1-20250910

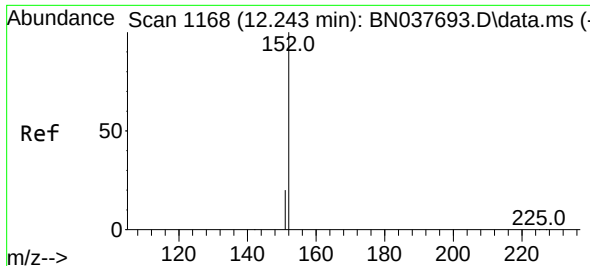
Tgt Ion:	136	Resp:	16429
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	6.8	6.3	9.5
68	5.4	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.369 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

Tgt Ion:	82	Resp:	4432
Ion	Ratio	Lower	Upper
82	100		
128	46.9	38.3	57.5
54	51.3	41.4	62.2

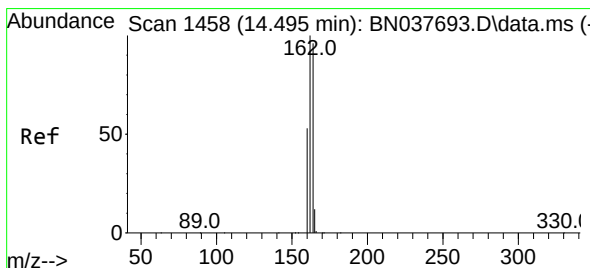
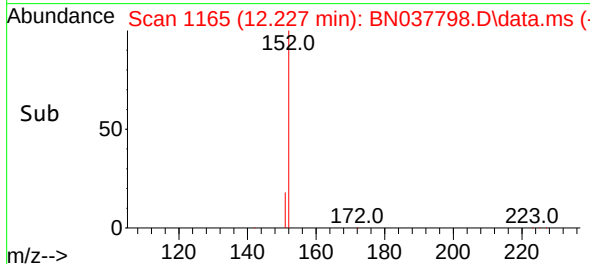
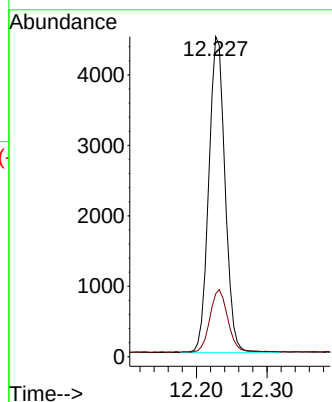
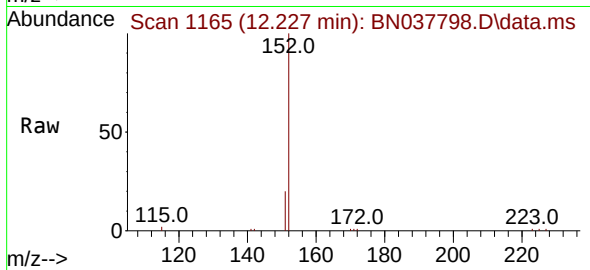




#11
2-Methylnaphthalene-d10
Concen: 0.330 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

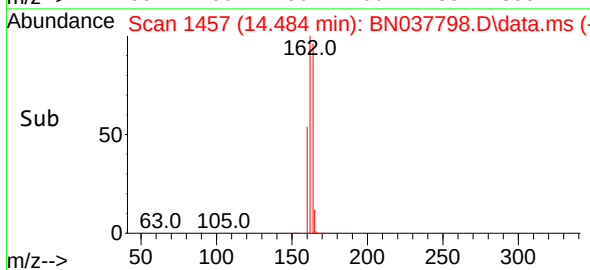
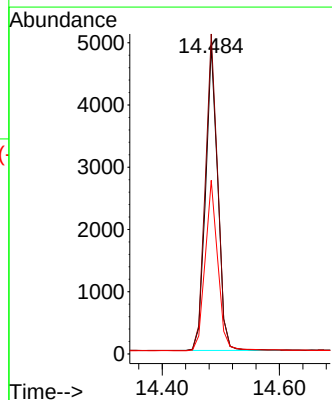
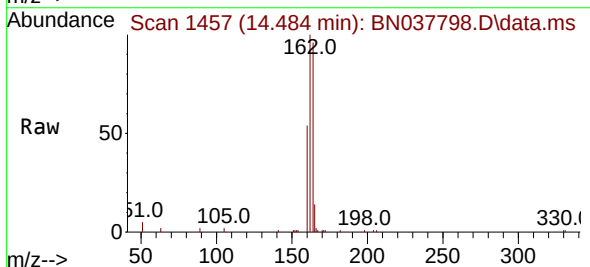
Instrument :
BNA_N
ClientSampleId :
RE104D1-20250910

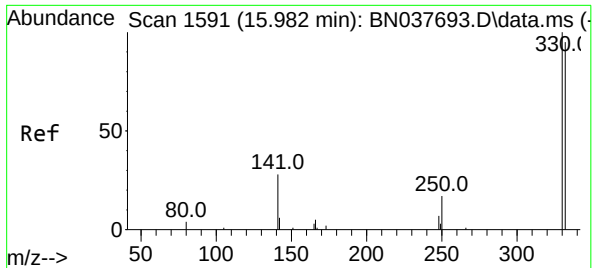
Tgt Ion:152 Resp: 7188
Ion Ratio Lower Upper
152 100
151 21.5 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

Tgt Ion:164 Resp: 7128
Ion Ratio Lower Upper
164 100
162 103.8 83.1 124.7
160 56.3 44.3 66.5

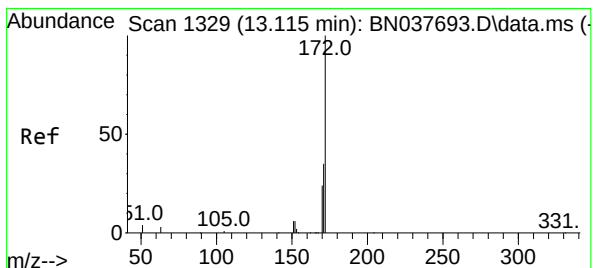
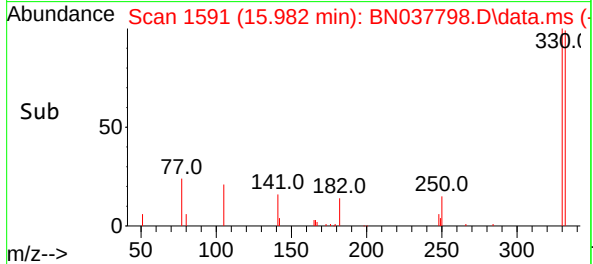
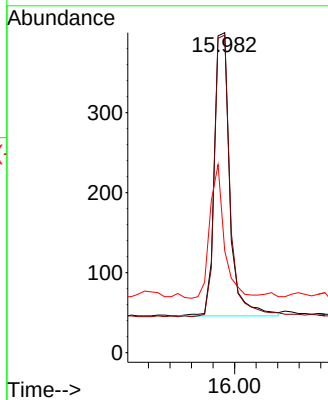
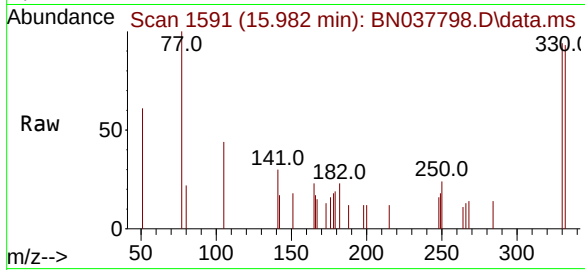




#14
2,4,6-Tribromophenol
Concen: 0.382 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

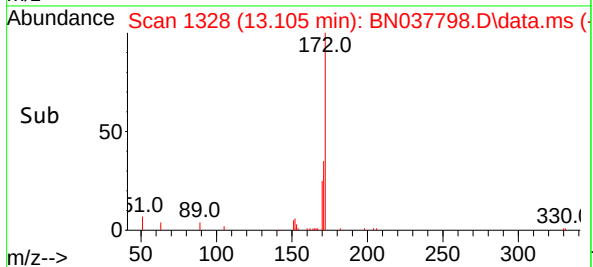
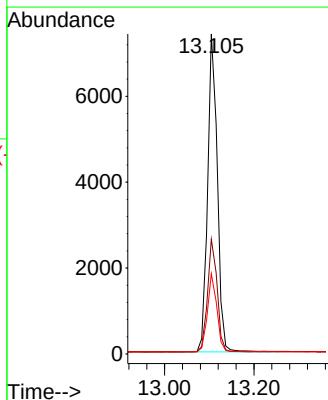
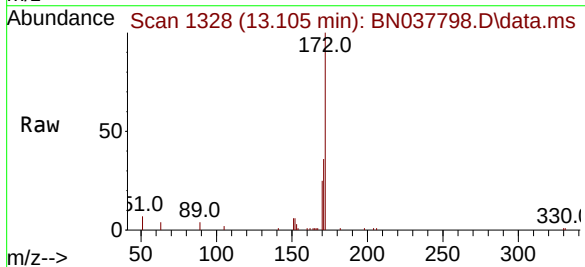
Instrument :
BNA_N
ClientSampleId :
RE104D1-20250910

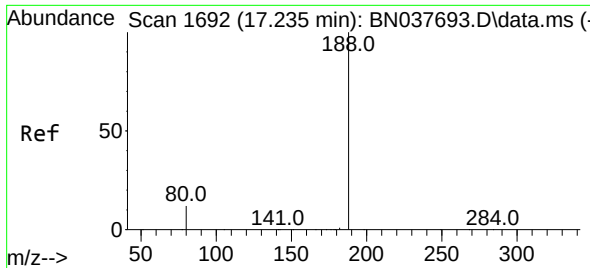
Tgt Ion	330	Resp	711
Ion	Ratio	Lower	Upper
330	100		
332	100.6	75.3	112.9
141	43.7	35.0	52.4



#15
2-Fluorobiphenyl
Concen: 0.373 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

Tgt Ion	172	Resp	11119
Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.6	43.0
170	25.1	19.8	29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037798.D

Acq: 19 Sep 2025 04:37

Instrument :

BNA_N

ClientSampleId :

RE104D1-20250910

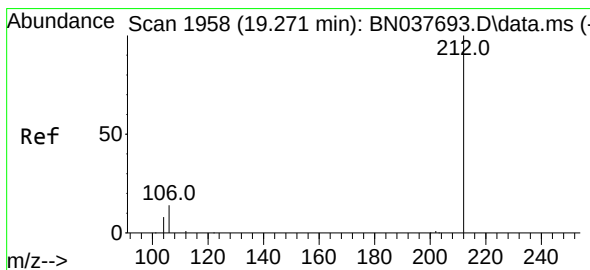
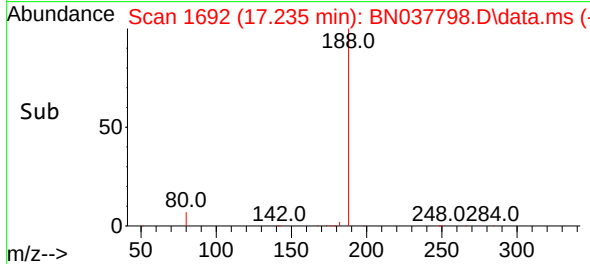
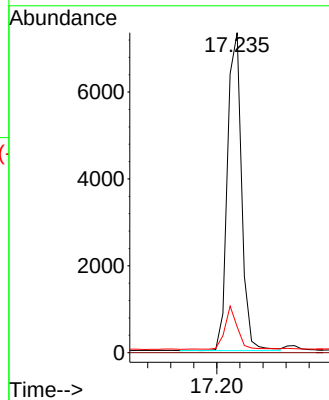
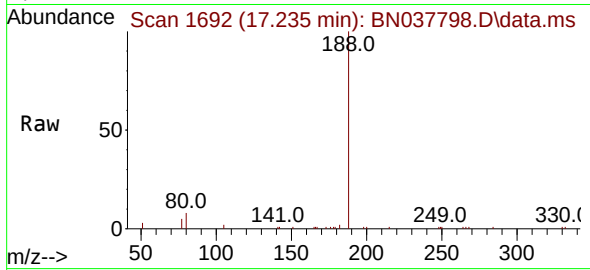
Tgt Ion:188 Resp: 12460

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.1 10.6 15.8#



#27

Fluoranthene-d10

Concen: 0.365 ng

RT: 19.262 min Scan# 1956

Delta R.T. -0.010 min

Lab File: BN037798.D

Acq: 19 Sep 2025 04:37

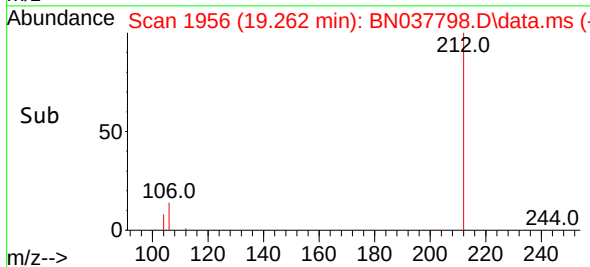
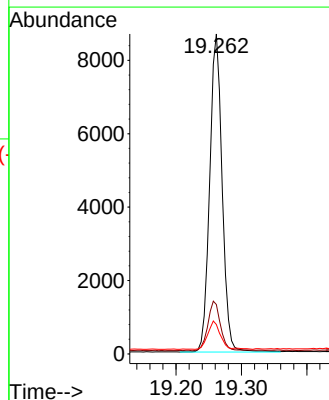
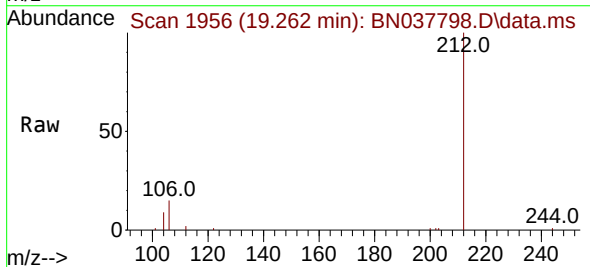
Tgt Ion:212 Resp: 11430

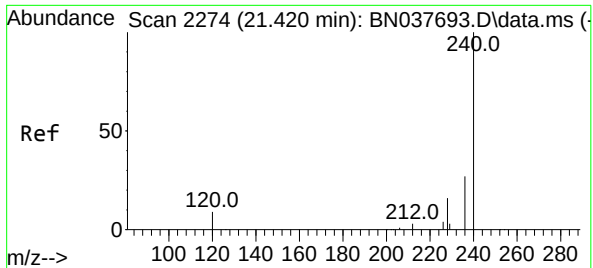
Ion Ratio Lower Upper

212 100

106 15.9 12.2 18.2

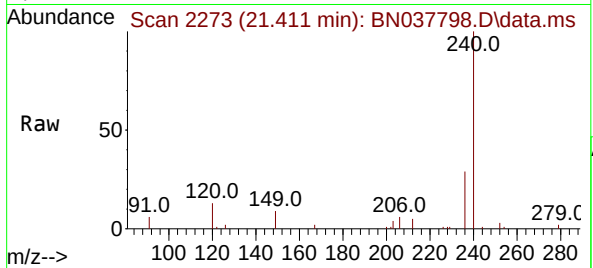
104 9.0 6.9 10.3



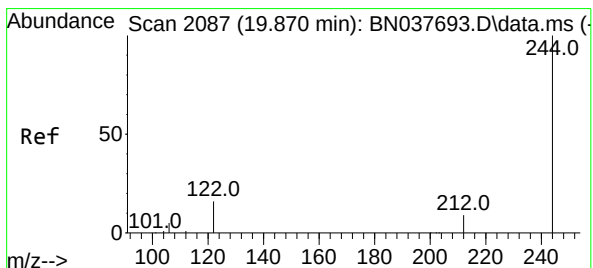
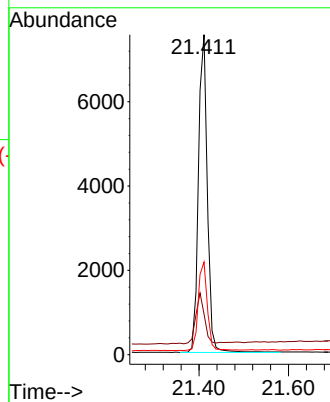
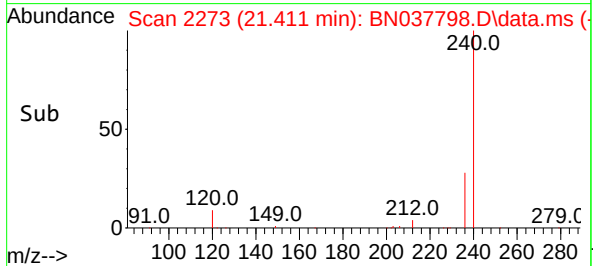


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

Instrument :
BNA_N
ClientSampleId :
RE104D1-20250910

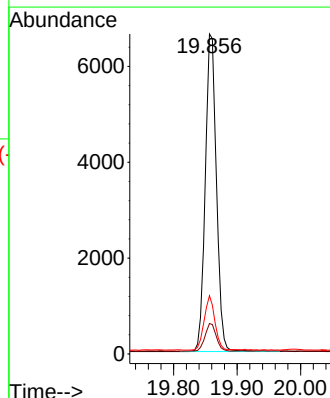
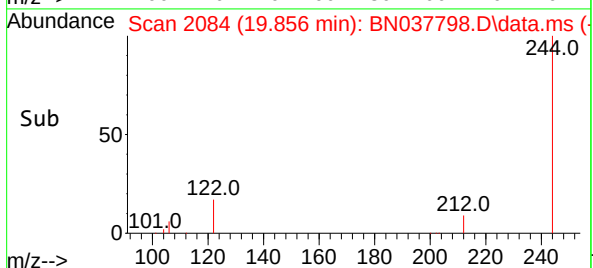
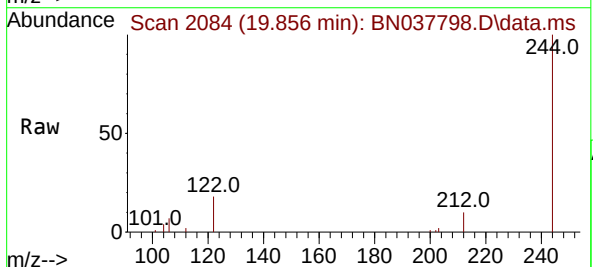


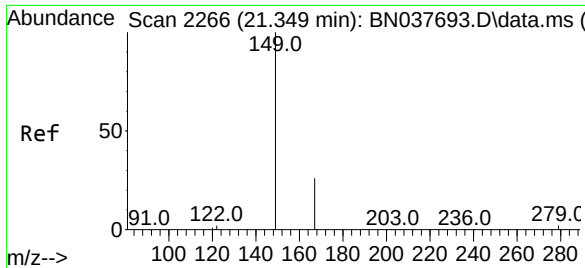
Tgt Ion:240 Resp: 10431
Ion Ratio Lower Upper
240 100
120 12.6 9.2 13.8
236 29.0 22.6 33.8



#31
Terphenyl-d14
Concen: 0.382 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

Tgt Ion:244 Resp: 8081
Ion Ratio Lower Upper
244 100
212 9.5 7.5 11.3
122 18.2 13.2 19.8

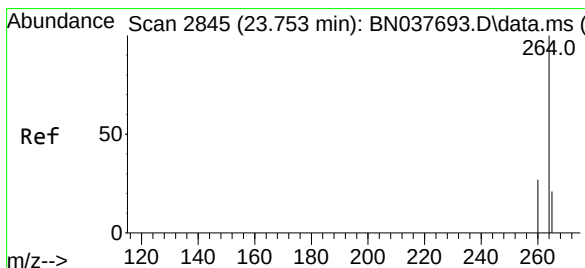
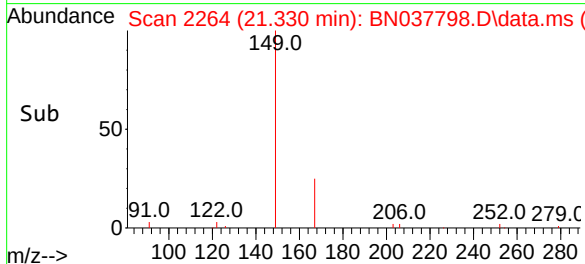
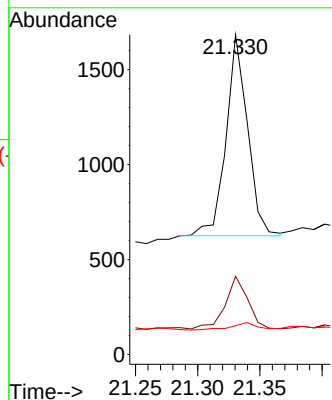
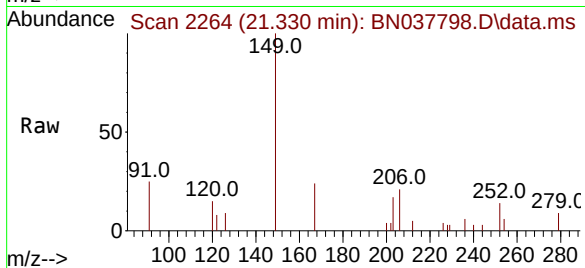




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.118 ng
RT: 21.330 min Scan# 2133
Delta R.T. -0.018 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

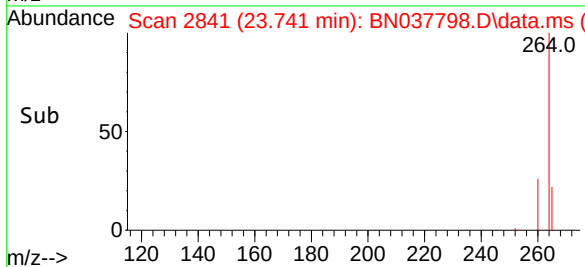
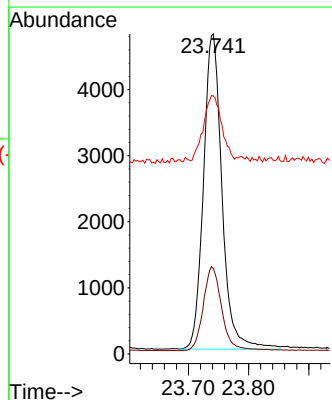
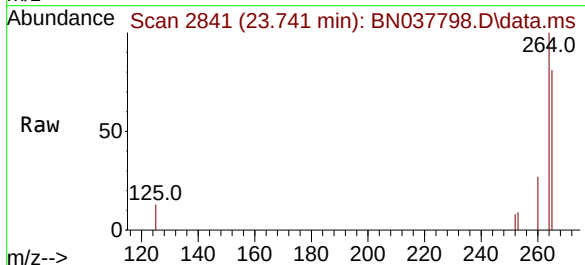
Instrument :
BNA_N
ClientSampleId :
RE104D1-20250910

Tgt Ion:149 Resp: 1275
Ion Ratio Lower Upper
149 100
167 27.1 20.8 31.2
279 4.5 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.741 min Scan# 2841
Delta R.T. -0.012 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

Tgt Ion:264 Resp: 10216
Ion Ratio Lower Upper
264 100
260 26.8 21.8 32.8
265 80.6 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	TT180D-20250911	SDG No.:	Q3095
Lab Sample ID:	Q3095-31	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
BN037799.D	1	09/15/25 12:00	09/19/25 05:13	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.11	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		86%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		97%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		97%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6960	7.833				
1146-65-2	Naphthalene-d8	16600	10.637				
15067-26-2	Acenaphthene-d10	7190	14.484				
1517-22-2	Phenanthrene-d10	12500	17.235				
1719-03-5	Chrysene-d12	10600	21.411				
1520-96-3	Perylene-d12	10300	23.741				

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\BN091825\
 Data File : BN037799.D
 Acq On : 19 Sep 2025 05:13
 Operator : RC/JU
 Sample : Q3095-31
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT180D-20250911

Quant Time: Sep 19 07:42:41 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

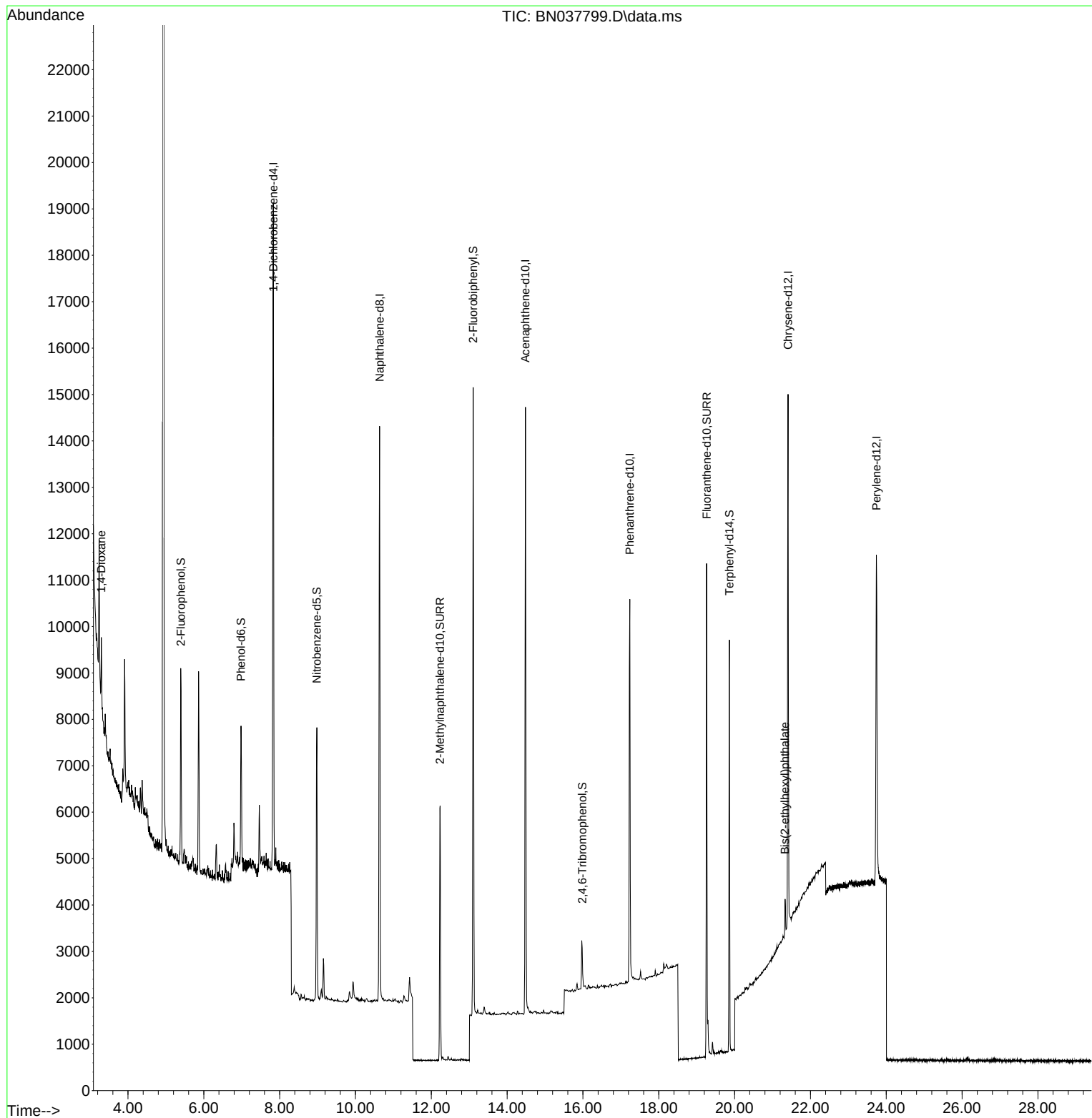
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	6964	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	16642	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	7189	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	12481	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	10625	0.400	ng	0.00
35) Perylene-d12	23.741	264	10338	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	3349	0.209	ng	0.00
5) Phenol-d6	6.980	99	2838	0.137	ng	0.00
8) Nitrobenzene-d5	8.982	82	4713	0.387	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	7550	0.342	ng	-0.02
14) 2,4,6-Tribromophenol	15.982	330	752	0.401	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	11713	0.390	ng	-0.01
27) Fluoranthene-d10	19.262	212	11399	0.364	ng	0.00
31) Terphenyl-d14	19.861	244	8383	0.389	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	788	0.109	ng	# 32
34) Bis(2-ethylhexyl)phtha...	21.331	149	816	0.074	ng	# 96

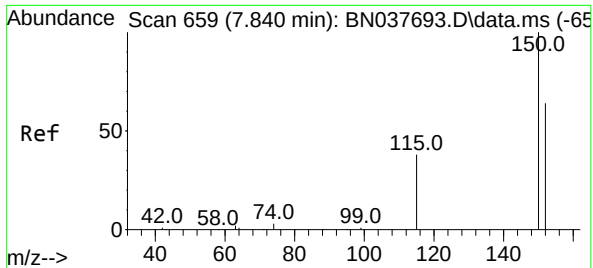
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037799.D
Acq On : 19 Sep 2025 05:13
Operator : RC/JU
Sample : Q3095-31
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT180D-20250911

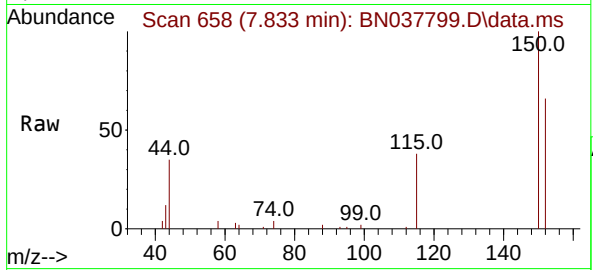
Quant Time: Sep 19 07:42:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



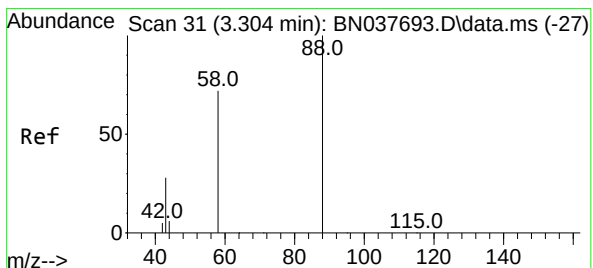
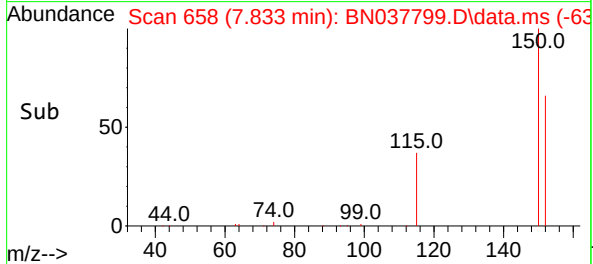
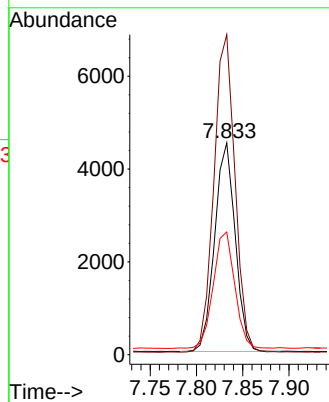


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

Instrument :
BNA_N
ClientSampleId :
TT180D-20250911

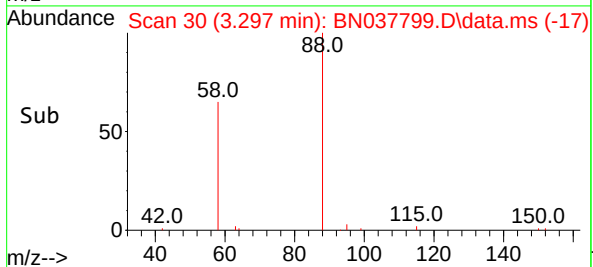
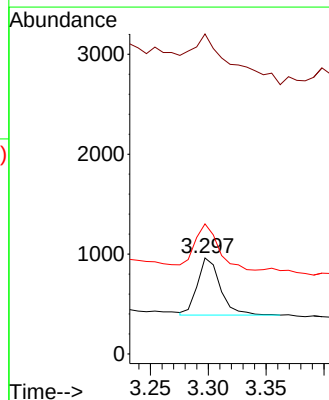
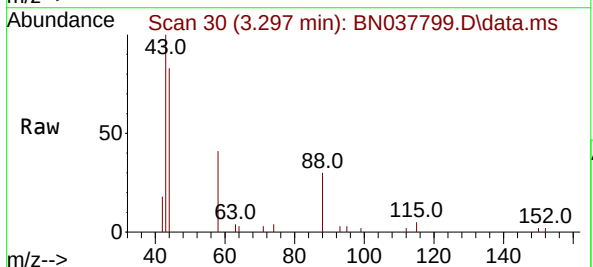


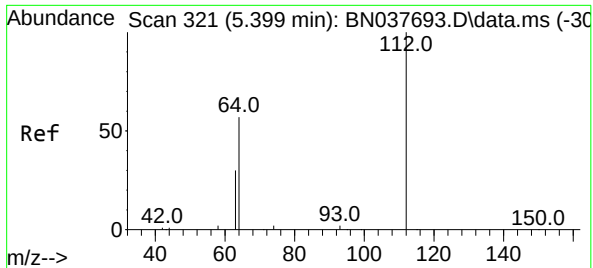
Tgt Ion:152 Resp: 6964
Ion Ratio Lower Upper
152 100
150 151.1 124.5 186.7
115 57.9 49.2 73.8



#2
1,4-Dioxane
Concen: 0.109 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

Tgt Ion: 88 Resp: 788
Ion Ratio Lower Upper
88 100
43 153.0 26.8 40.2#
58 83.1 61.9 92.9

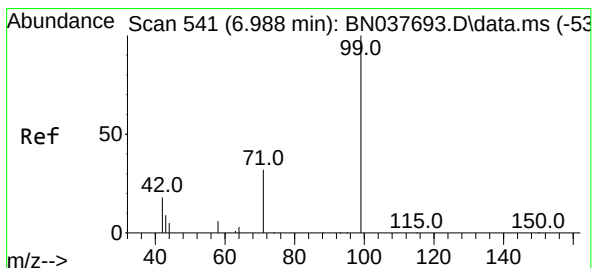
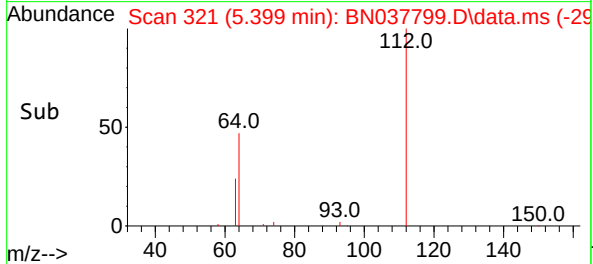
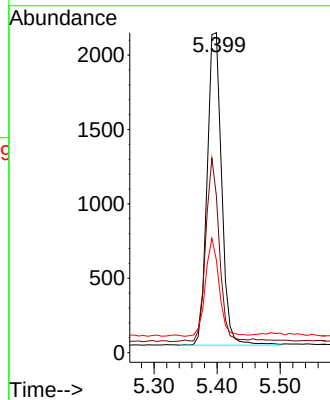
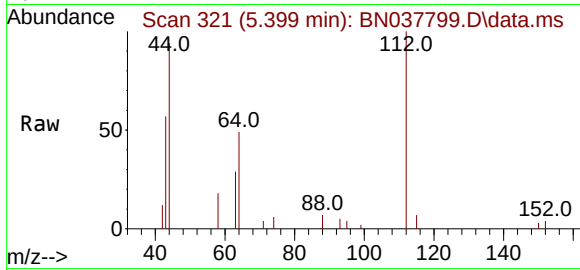




#4
2-Fluorophenol
Concen: 0.209 ng
RT: 5.399 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

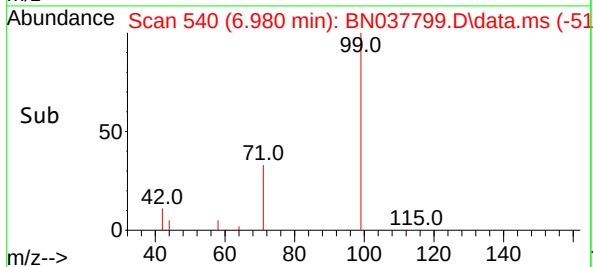
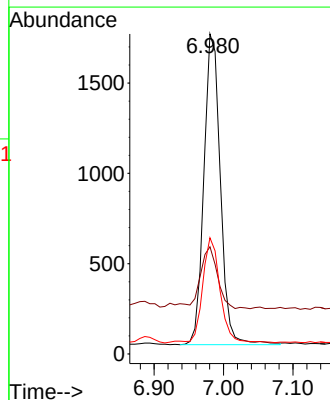
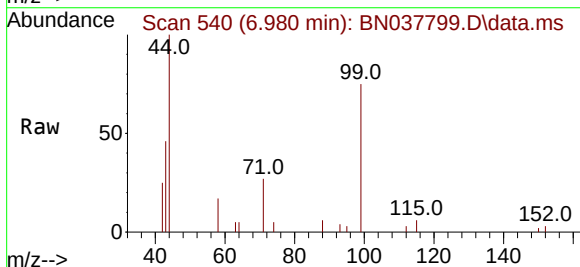
Instrument :
BNA_N
ClientSampleId :
TT180D-20250911

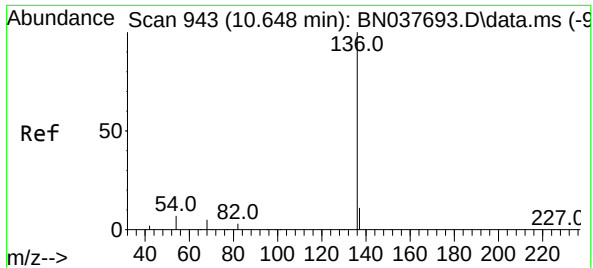
Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.8	44.9	67.3
63	29.7	24.7	37.1



#5
Phenol-d6
Concen: 0.137 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.5	16.6	24.8
71	36.2	26.7	40.1

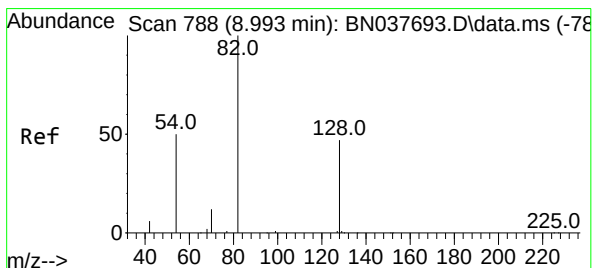
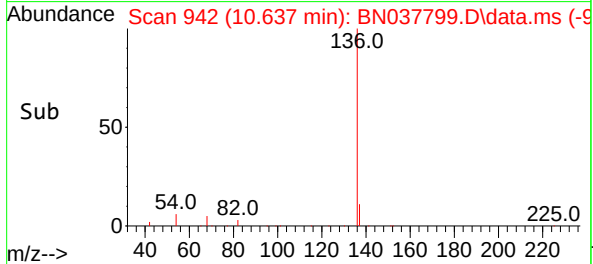
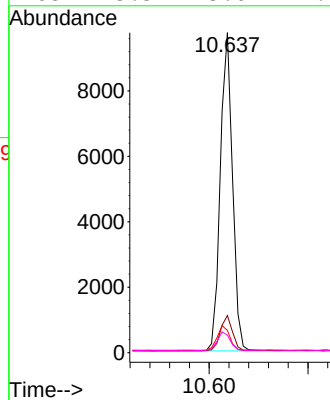
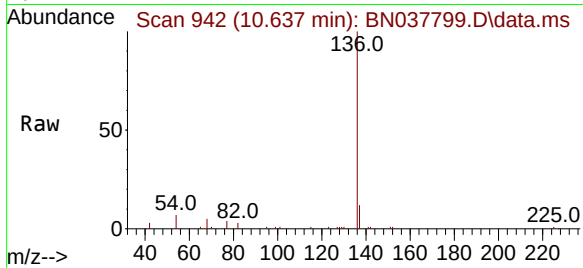




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

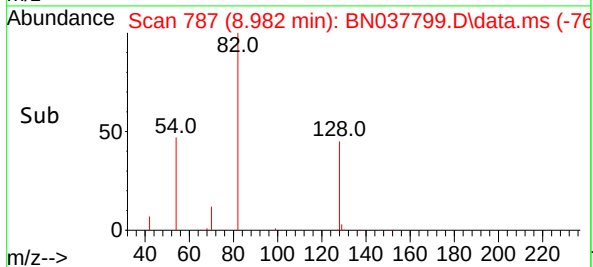
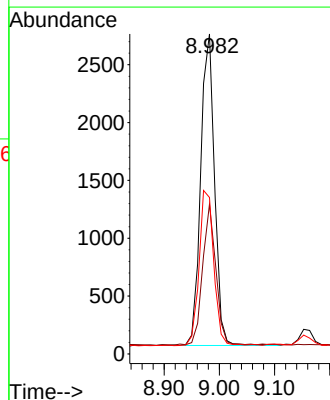
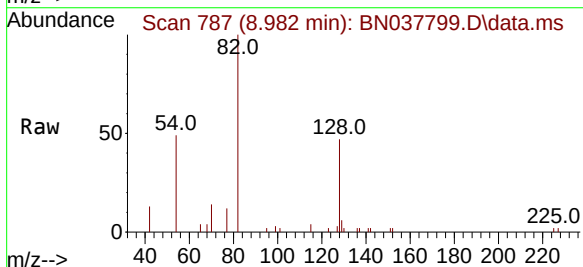
Instrument :
BNA_N
ClientSampleId :
TT180D-20250911

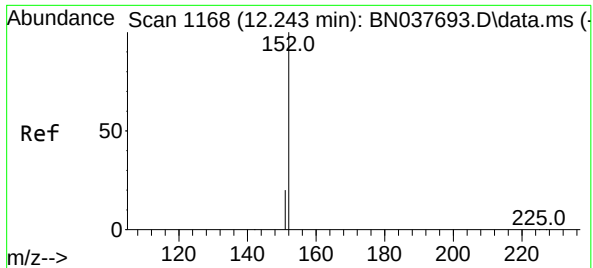
Tgt Ion:	136	Resp:	16642
Ion Ratio	Lower	Upper	
136	100		
137	11.6	9.1	13.7
54	6.9	6.3	9.5
68	5.5	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.387 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

Tgt Ion:	82	Resp:	4713
Ion Ratio	Lower	Upper	
82	100		
128	46.8	38.3	57.5
54	48.9	41.4	62.2

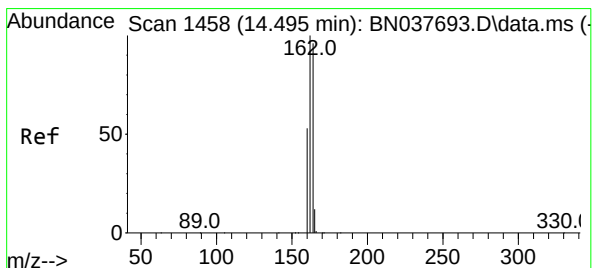
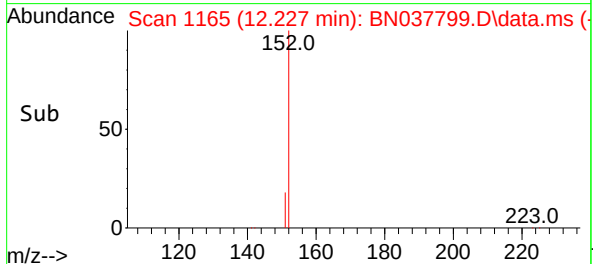
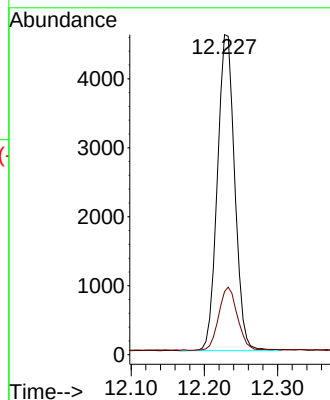
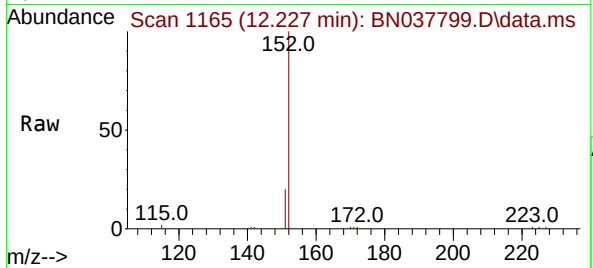




#11
2-Methylnaphthalene-d10
Concen: 0.342 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

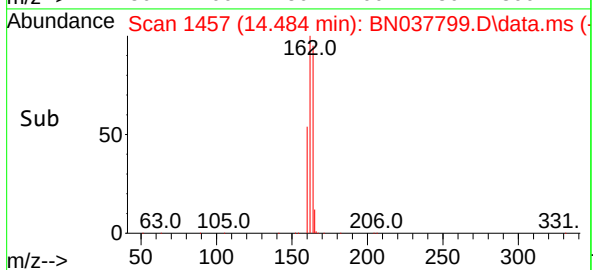
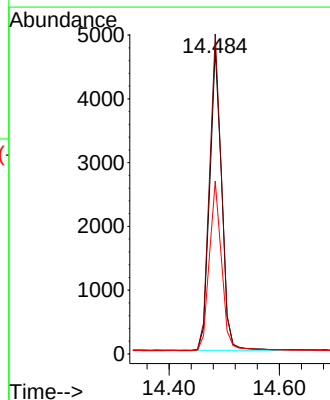
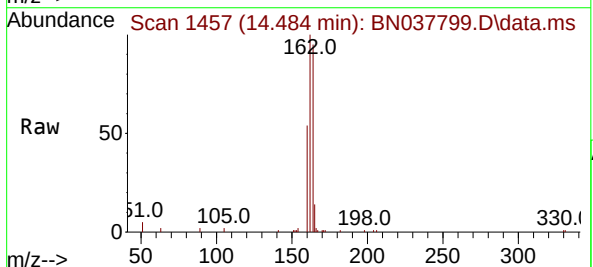
Instrument :
BNA_N
ClientSampleId :
TT180D-20250911

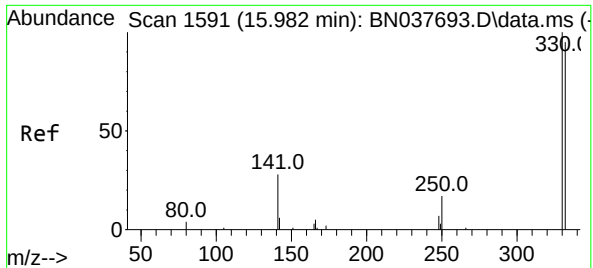
Tgt Ion:152 Resp: 7550
Ion Ratio Lower Upper
152 100
151 21.6 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

Tgt Ion:164 Resp: 7189
Ion Ratio Lower Upper
164 100
162 104.8 83.1 124.7
160 56.5 44.3 66.5

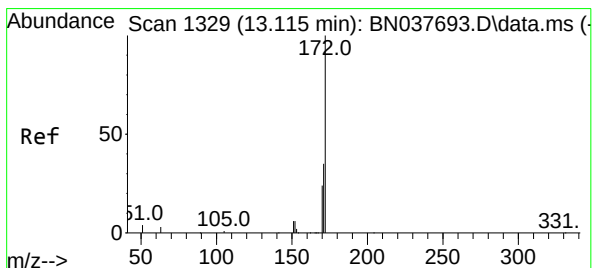
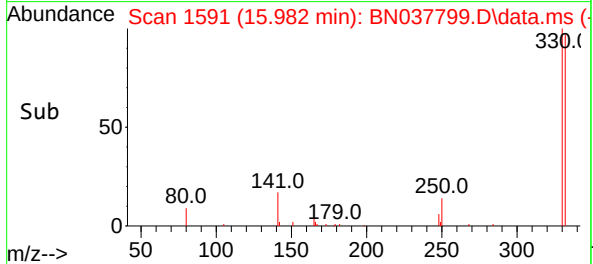
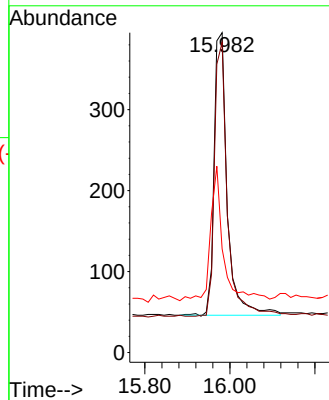
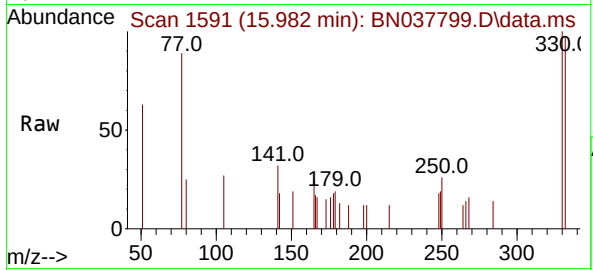




#14
2,4,6-Tribromophenol
Concen: 0.401 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

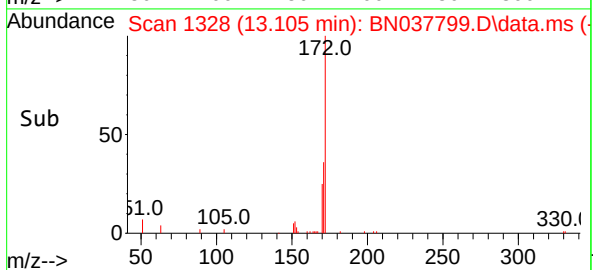
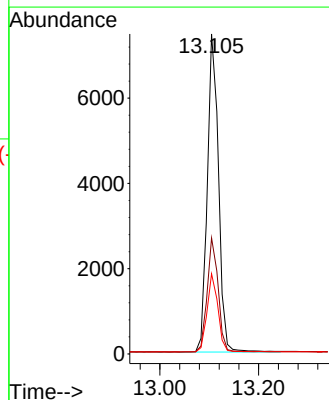
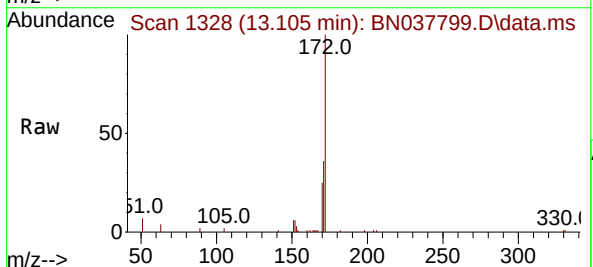
Instrument :
BNA_N
ClientSampleId :
TT180D-20250911

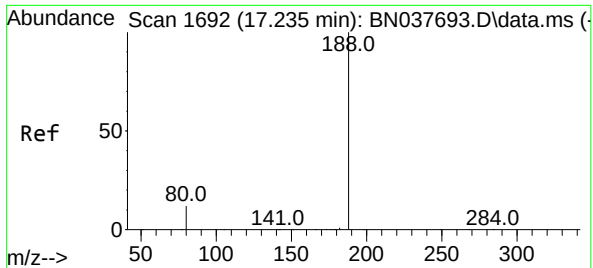
Tgt Ion	330	Resp	752
Ion Ratio	100		
Lower	75.3		
Upper	112.9		



#15
2-Fluorobiphenyl
Concen: 0.390 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

Tgt Ion	172	Resp	11713
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower	28.6		
Upper	43.0		





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037799.D

Acq: 19 Sep 2025 05:13

Instrument :

BNA_N

ClientSampleId :

TT180D-20250911

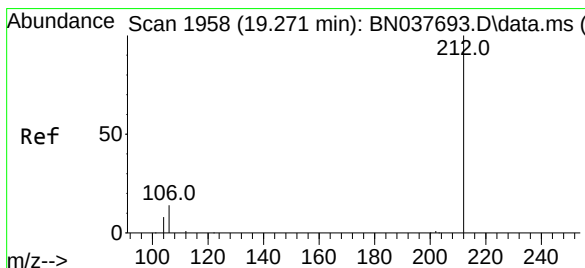
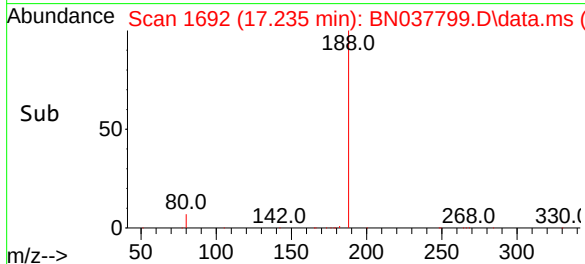
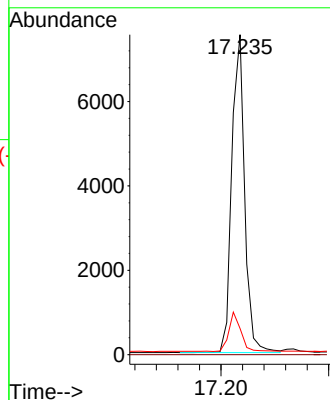
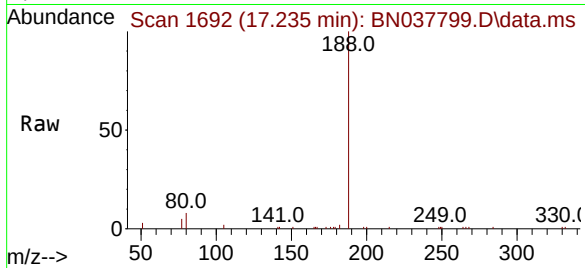
Tgt Ion:188 Resp: 12481

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.2 10.6 15.8#



#27

Fluoranthene-d10

Concen: 0.364 ng

RT: 19.262 min Scan# 1956

Delta R.T. -0.009 min

Lab File: BN037799.D

Acq: 19 Sep 2025 05:13

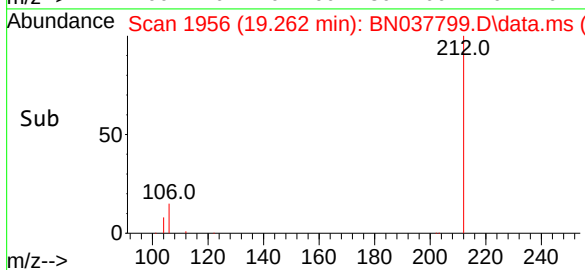
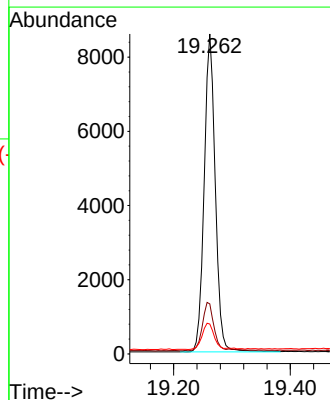
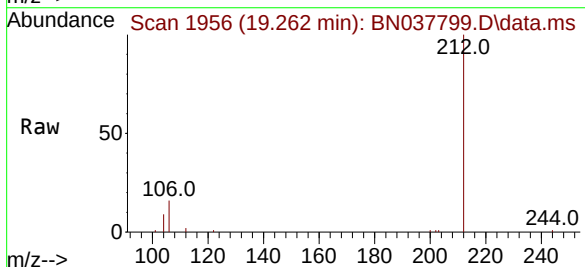
Tgt Ion:212 Resp: 11399

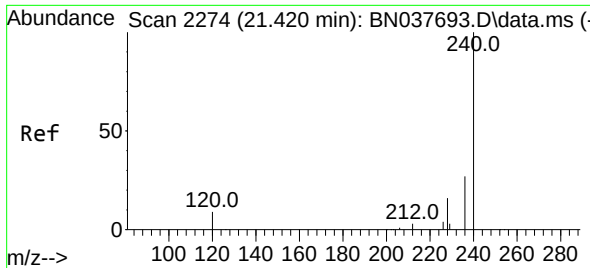
Ion Ratio Lower Upper

212 100

106 16.2 12.2 18.2

104 8.9 6.9 10.3

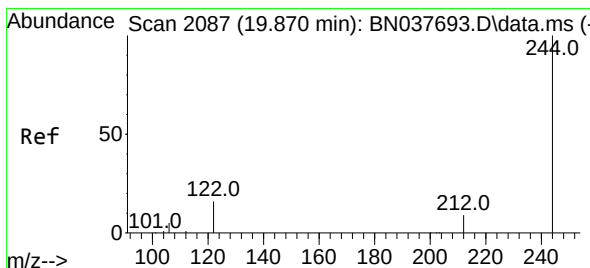
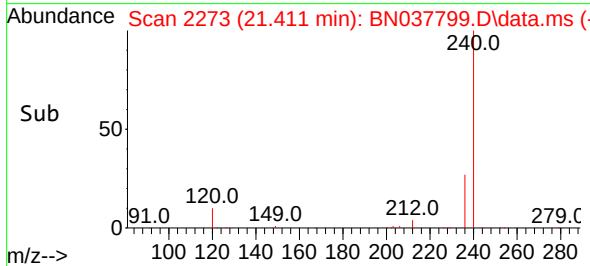
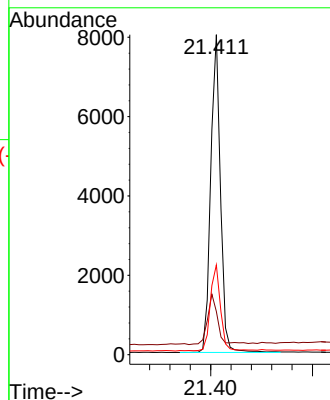
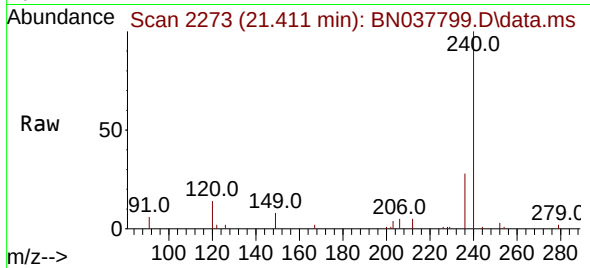




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

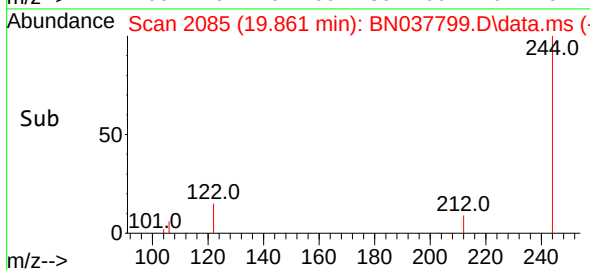
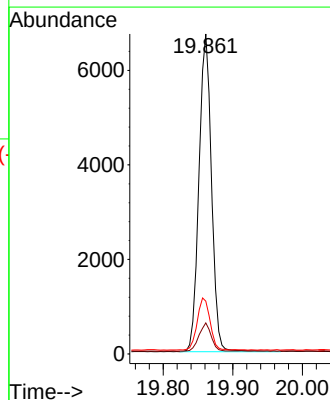
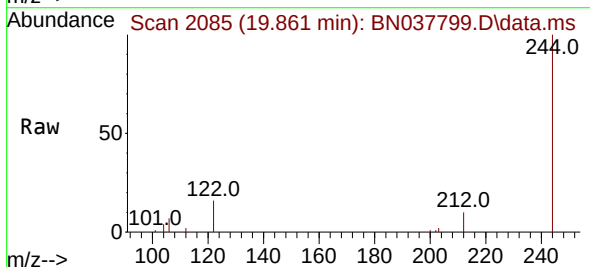
Instrument :
BNA_N
ClientSampleId :
TT180D-20250911

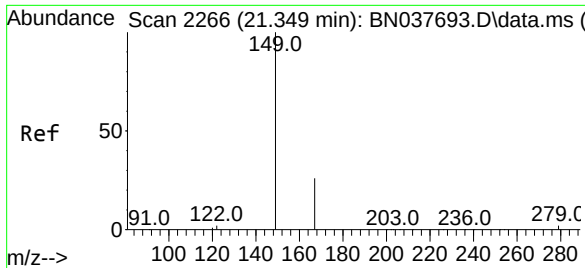
Tgt Ion:	240	Resp:	10625
Ion Ratio	Lower	Upper	
240	100		
120	13.5	9.2	13.8
236	28.1	22.6	33.8



#31
Terphenyl-d14
Concen: 0.389 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

Tgt Ion:	244	Resp:	8383
Ion Ratio	Lower	Upper	
244	100		
212	9.7	7.5	11.3
122	16.5	13.2	19.8

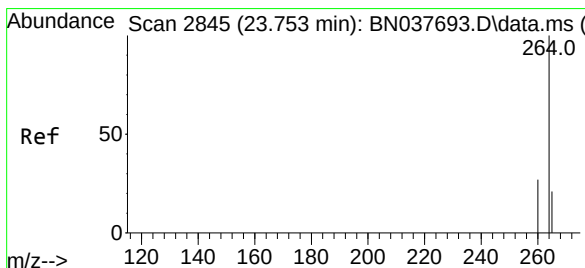
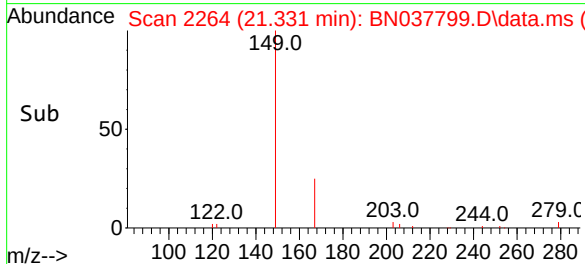
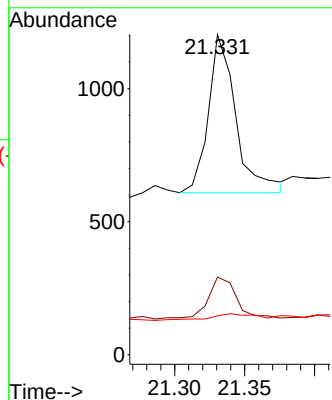
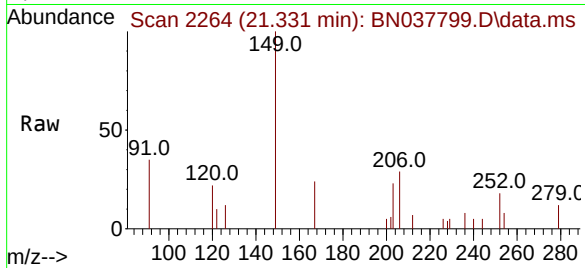




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.074 ng
RT: 21.331 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

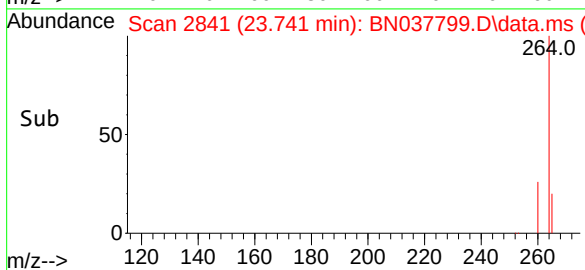
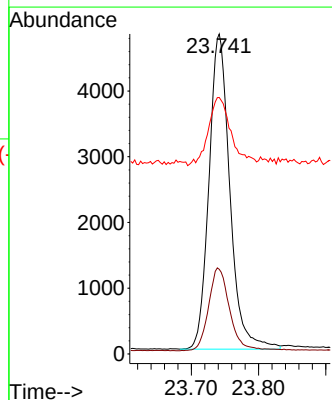
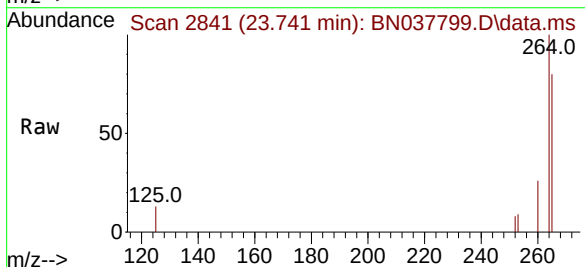
Instrument :
BNA_N
ClientSampleId :
TT180D-20250911

Tgt Ion:149 Resp: 816
Ion Ratio Lower Upper
149 100
167 27.8 20.8 31.2
279 7.0 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.741 min Scan# 2841
Delta R.T. -0.012 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

Tgt Ion:264 Resp: 10338
Ion Ratio Lower Upper
264 100
260 26.5 21.8 32.8
265 80.2 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE122D3-20250911	SDG No.:	Q3095
Lab Sample ID:	Q3095-32	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
BN037800.D	1	09/15/25 12:00	09/19/25 05:49	PB169693

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	0.35		30 - 150		86%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		96%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		98%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		103%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5970	7.833				
1146-65-2	Naphthalene-d8	15700	10.637				
15067-26-2	Acenaphthene-d10	6880	14.484				
1517-22-2	Phenanthrene-d10	11800	17.235				
1719-03-5	Chrysene-d12	9880	21.411				
1520-96-3	Perylene-d12	9590	23.739				

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\BN091825\
 Data File : BN037800.D
 Acq On : 19 Sep 2025 05:49
 Operator : RC/JU
 Sample : Q3095-32
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE122D3-20250911

Quant Time: Sep 19 07:43:00 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

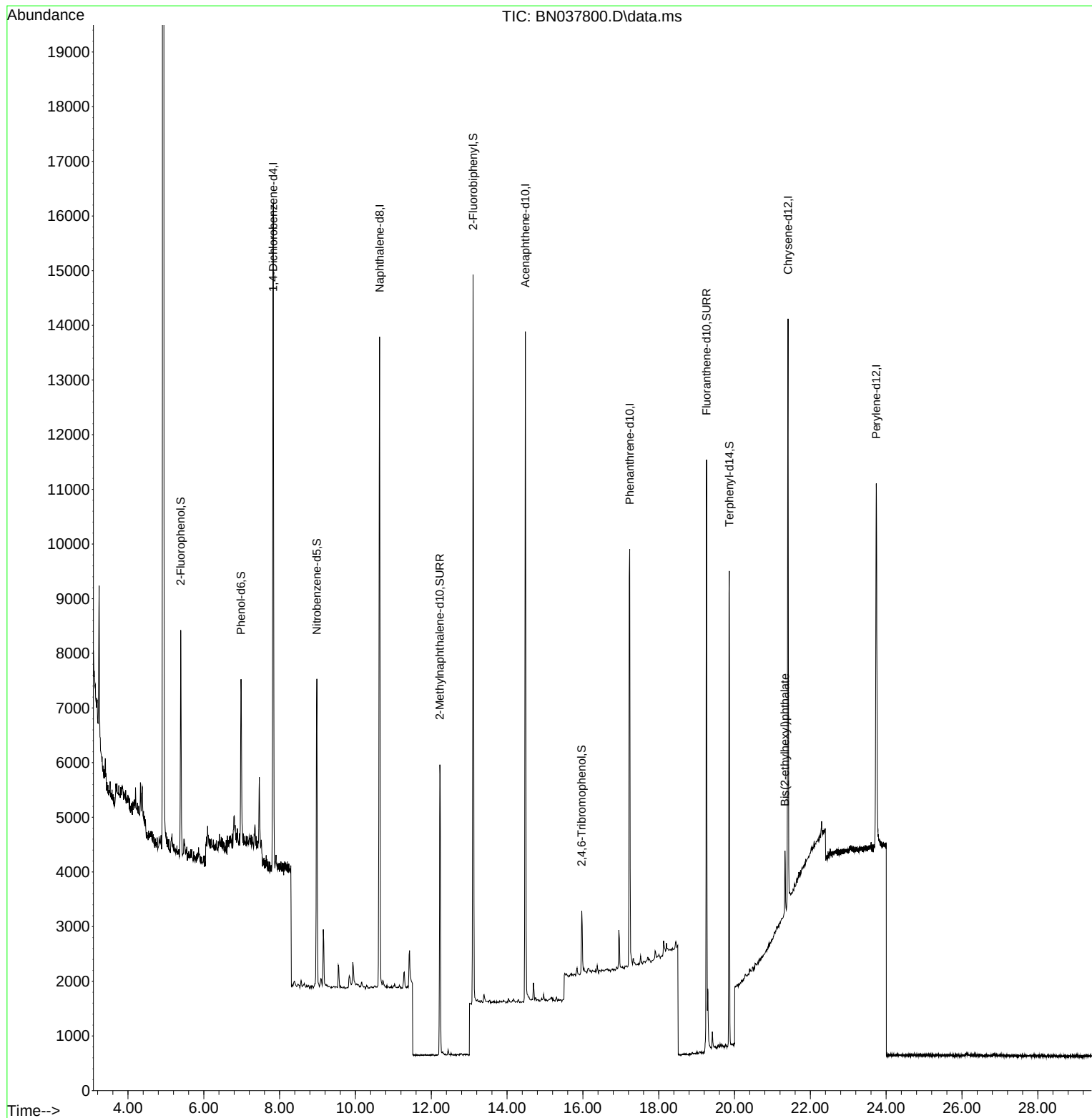
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	5969	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	15717	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	6882	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	11849	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	9882	0.400	ng	0.00
35) Perylene-d12	23.739	264	9588	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	3155	0.230	ng	0.00
5) Phenol-d6	6.980	99	2700	0.152	ng	0.00
8) Nitrobenzene-d5	8.982	82	4524	0.394	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	7207	0.346	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	723	0.403	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	11287	0.392	ng	-0.01
27) Fluoranthene-d10	19.262	212	11407	0.383	ng	0.00
31) Terphenyl-d14	19.861	244	8265	0.412	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.331	149	1232	0.121	ng	# 99

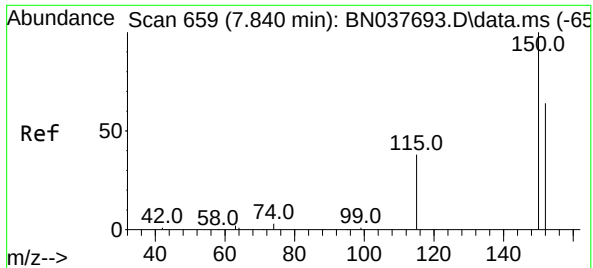
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037800.D
Acq On : 19 Sep 2025 05:49
Operator : RC/JU
Sample : Q3095-32
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE122D3-20250911

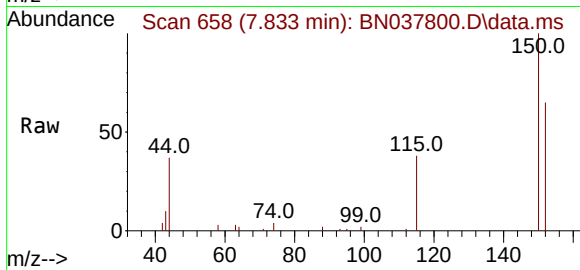
Quant Time: Sep 19 07:43:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



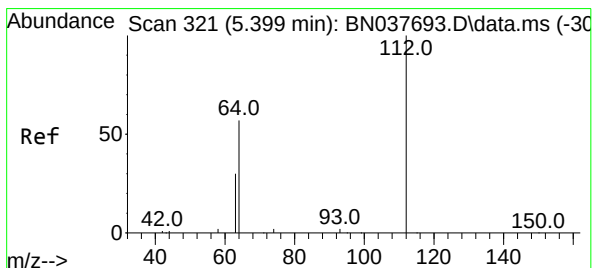
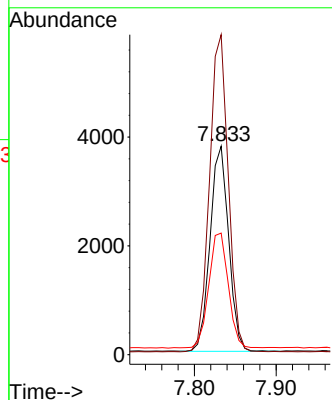
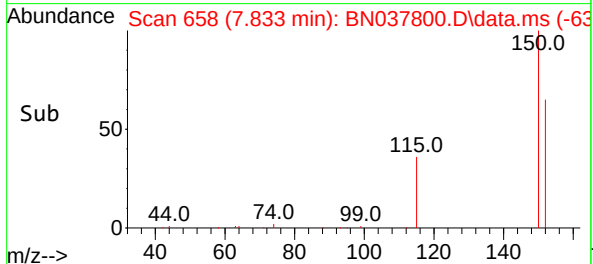


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

Instrument :
BNA_N
ClientSampleId :
RE122D3-20250911

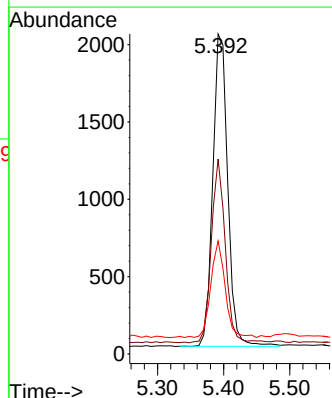
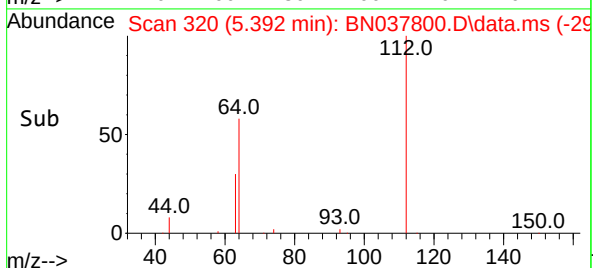
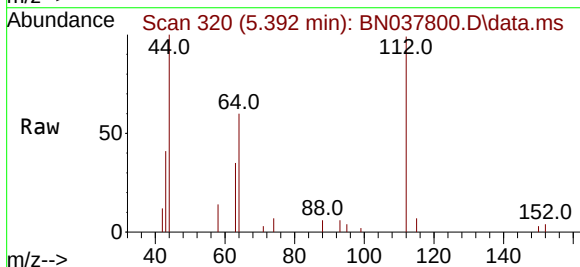


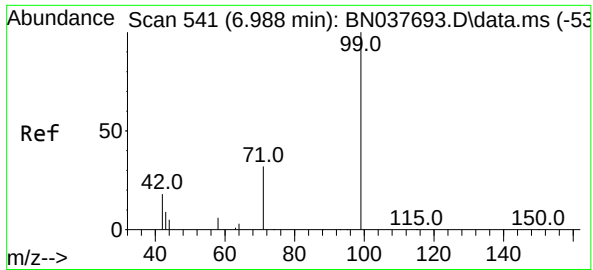
Tgt Ion:152 Resp: 5969
Ion Ratio Lower Upper
152 100
150 153.5 124.5 186.7
115 58.3 49.2 73.8



#4
2-Fluorophenol
Concen: 0.230 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

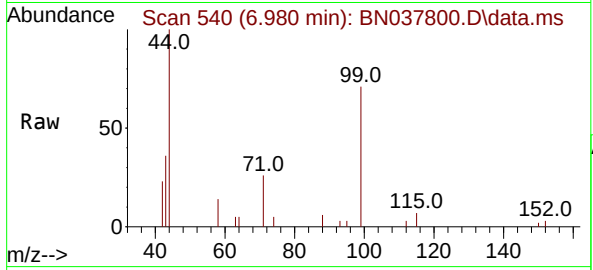
Tgt Ion:112 Resp: 3155
Ion Ratio Lower Upper
112 100
64 54.7 44.9 67.3
63 29.5 24.7 37.1



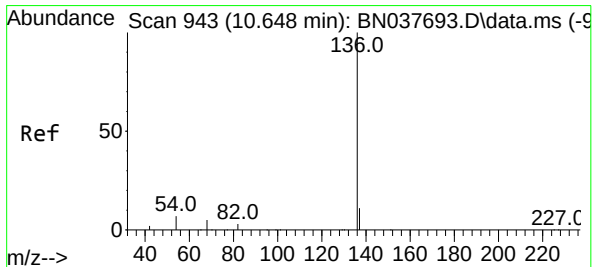
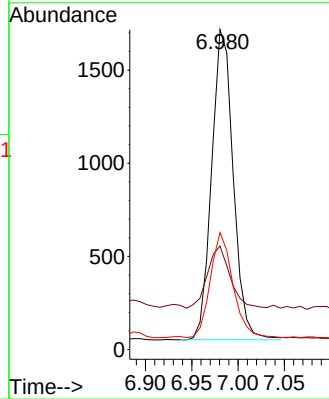
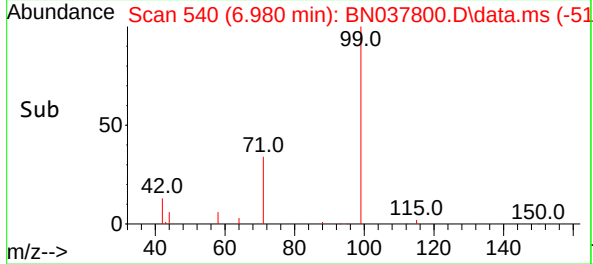


#5
Phenol-d6
Concen: 0.152 ng
RT: 6.980 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

Instrument :
BNA_N
ClientSampleId :
RE122D3-20250911

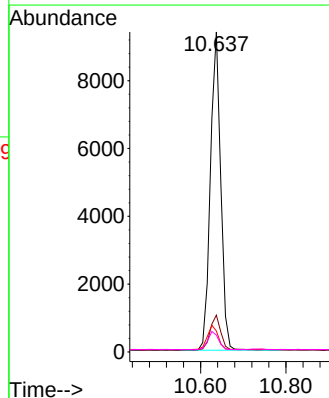
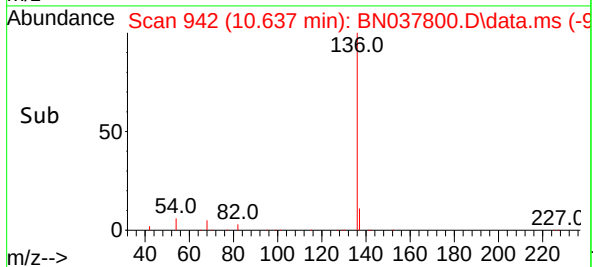
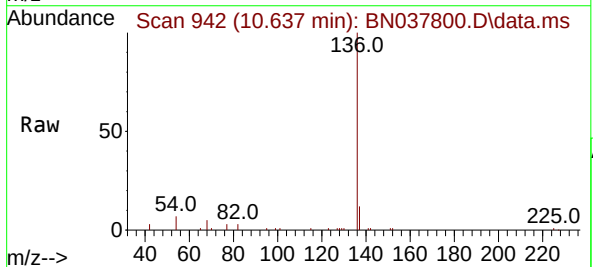


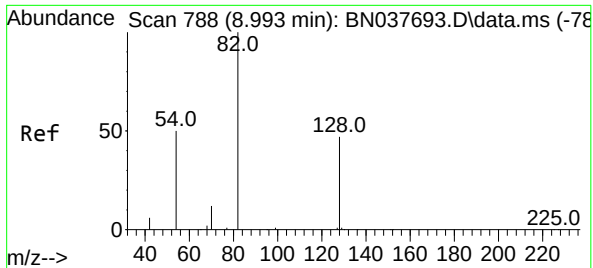
Tgt Ion: 99 Resp: 2700
Ion Ratio Lower Upper
99 100
42 21.0 16.6 24.8
71 36.1 26.7 40.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

Tgt Ion: 136 Resp: 15717
Ion Ratio Lower Upper
136 100
137 11.5 9.1 13.7
54 6.6 6.3 9.5
68 5.3 5.0 7.4

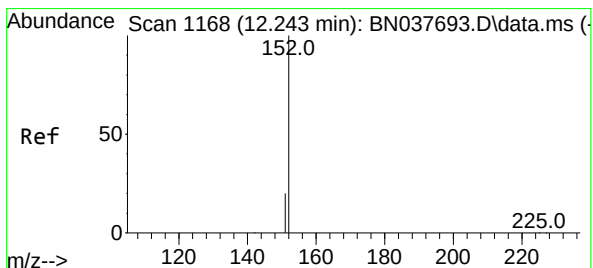
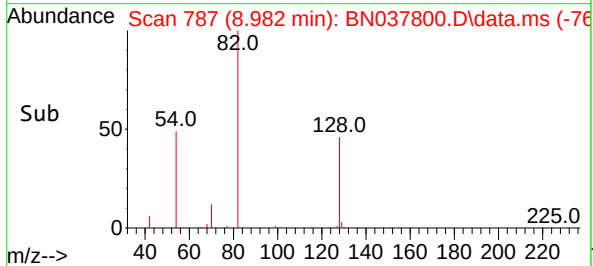
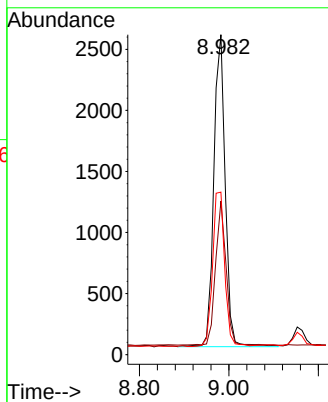
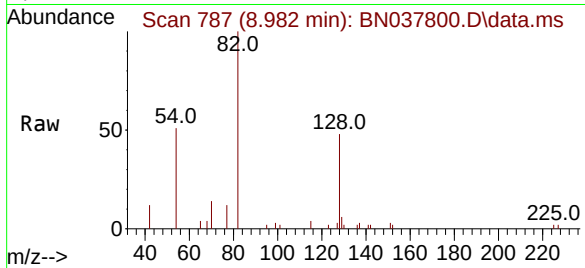




#8
Nitrobenzene-d5
Concen: 0.394 ng
RT: 8.982 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

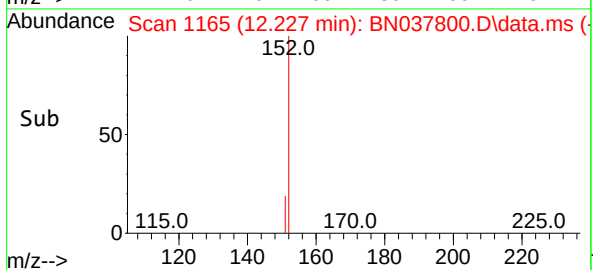
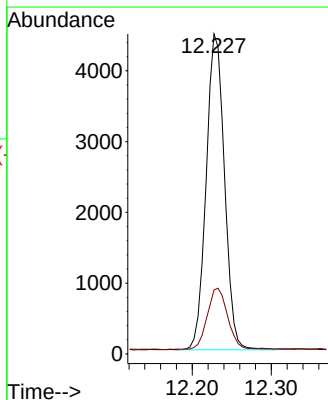
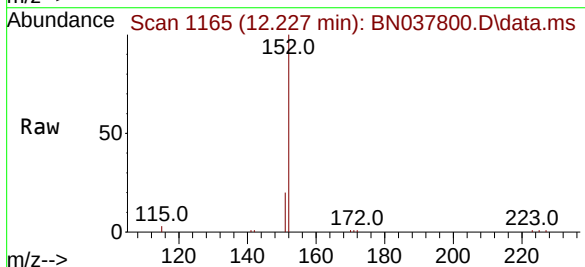
Instrument :
BNA_N
ClientSampleId :
RE122D3-20250911

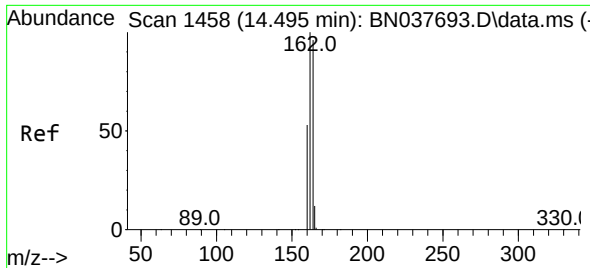
Tgt Ion	82	Resp:	4524
Ion Ratio	Lower	Upper	
82	100		
128	48.0	38.3	57.5
54	50.8	41.4	62.2



#11
2-Methylnaphthalene-d10
Concen: 0.346 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

Tgt Ion	152	Resp:	7207
Ion Ratio	Lower	Upper	
152	100		
151	21.5	17.0	25.6

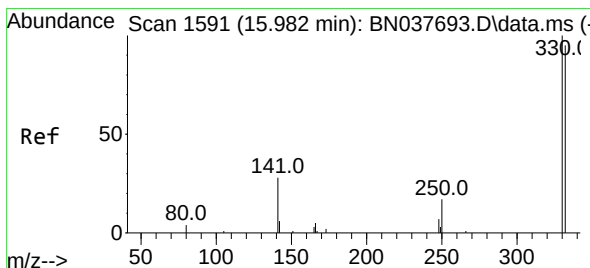
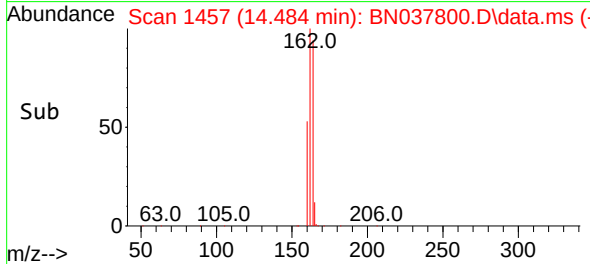
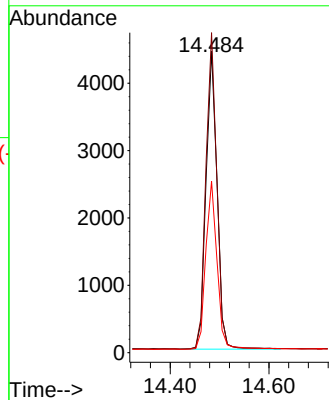
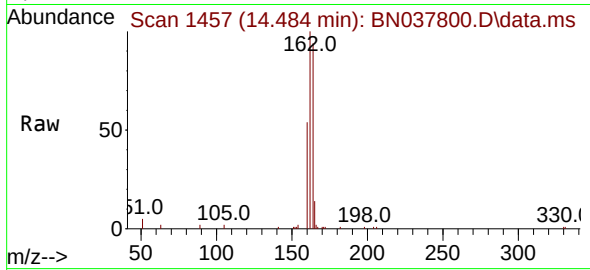




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

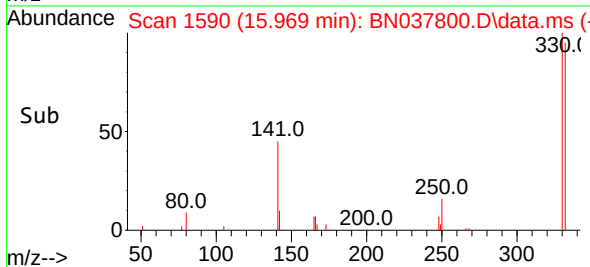
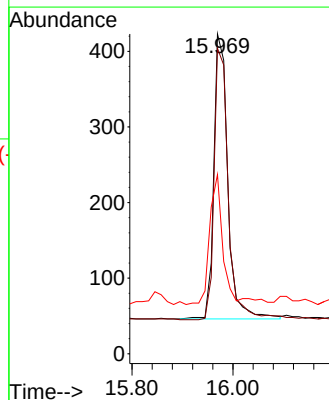
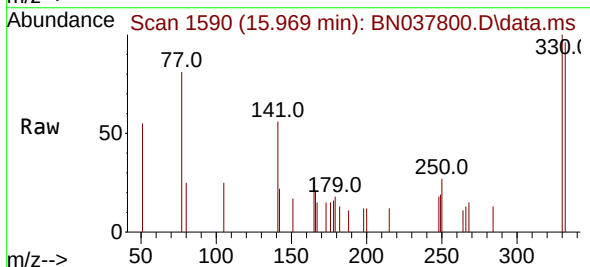
Instrument :
BNA_N
ClientSampleId :
RE122D3-20250911

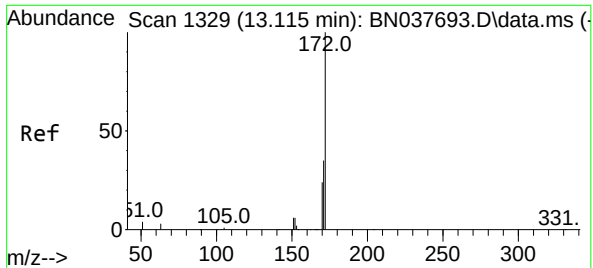
Tgt Ion:164 Resp: 6882
Ion Ratio Lower Upper
164 100
162 106.2 83.1 124.7
160 56.9 44.3 66.5



#14
2,4,6-Tribromophenol
Concen: 0.403 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

Tgt Ion:330 Resp: 723
Ion Ratio Lower Upper
330 100
332 96.7 75.3 112.9
141 42.6 35.0 52.4

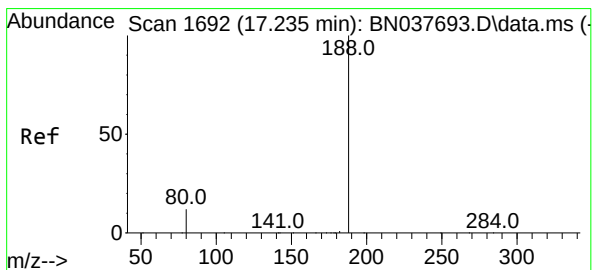
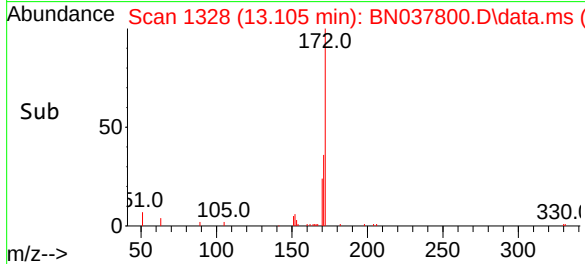
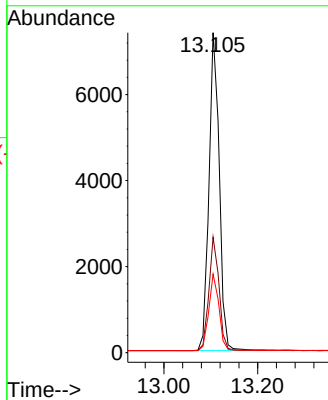
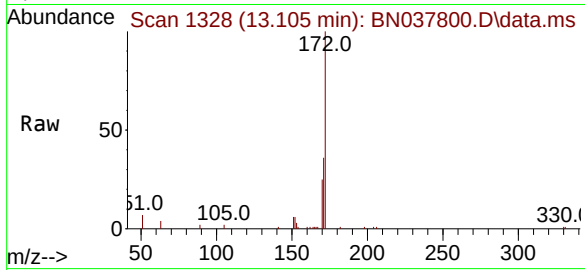




#15
2-Fluorobiphenyl
Concen: 0.392 ng
RT: 13.105 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

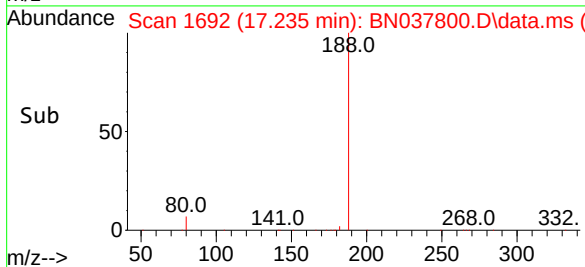
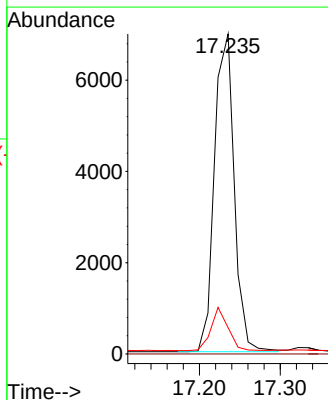
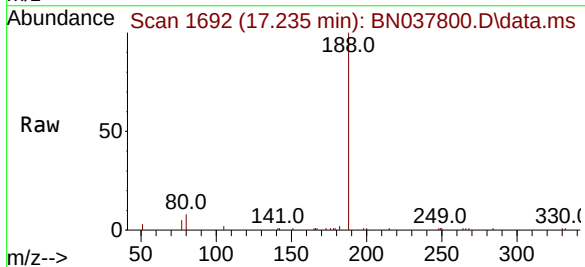
Instrument :
BNA_N
ClientSampleId :
RE122D3-20250911

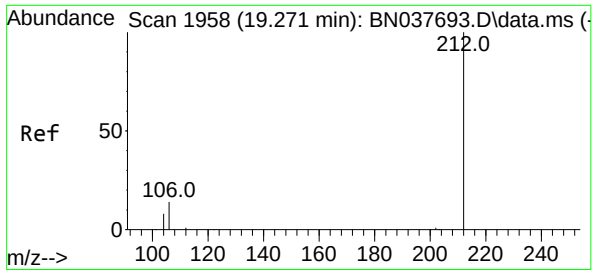
Tgt Ion:172 Resp: 11287
Ion Ratio Lower Upper
172 100
171 36.1 28.6 43.0
170 24.6 19.8 29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

Tgt Ion:188 Resp: 11849
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.2 10.6 15.8#





#27

Fluoranthene-d10

Concen: 0.383 ng

RT: 19.262 min Scan# 1956

Delta R.T. -0.009 min

Lab File: BN037800.D

Acq: 19 Sep 2025 05:49

Instrument :

BNA_N

ClientSampleId :

RE122D3-20250911

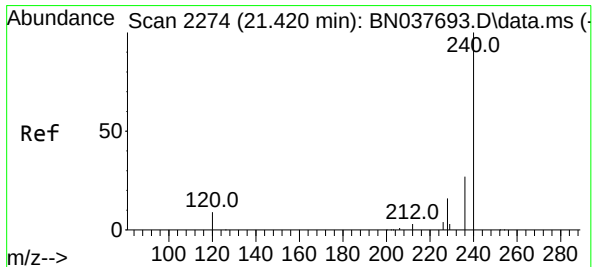
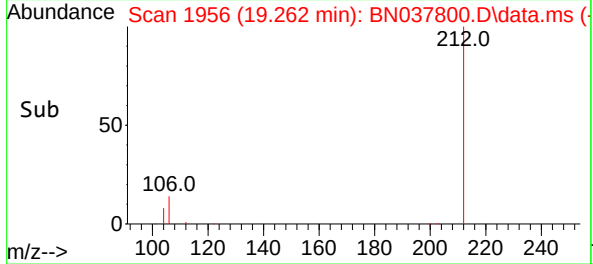
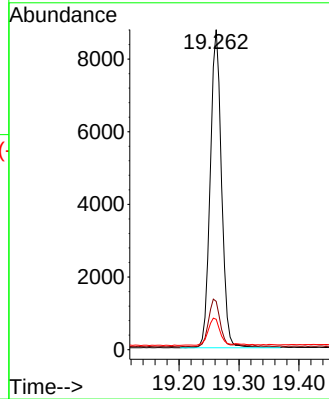
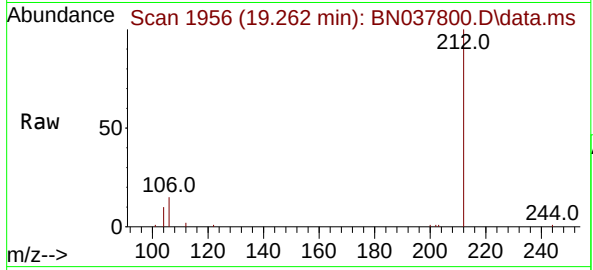
Tgt Ion:212 Resp: 11407

Ion Ratio Lower Upper

212 100

106 15.3 12.2 18.2

104 8.8 6.9 10.3



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.411 min Scan# 2273

Delta R.T. -0.009 min

Lab File: BN037800.D

Acq: 19 Sep 2025 05:49

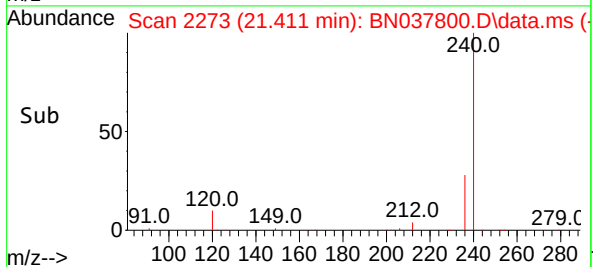
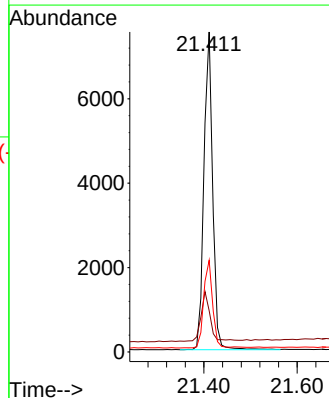
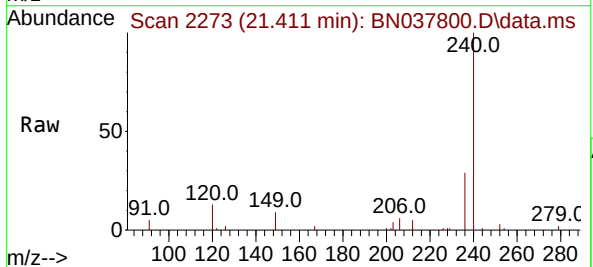
Tgt Ion:240 Resp: 9882

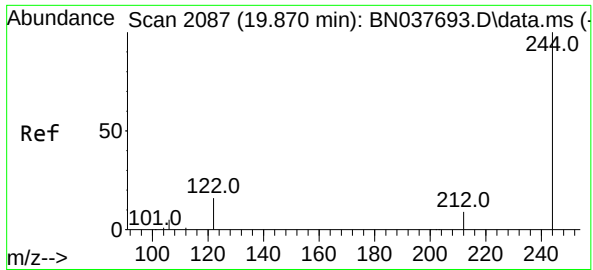
Ion Ratio Lower Upper

240 100

120 12.9 9.2 13.8

236 28.6 22.6 33.8

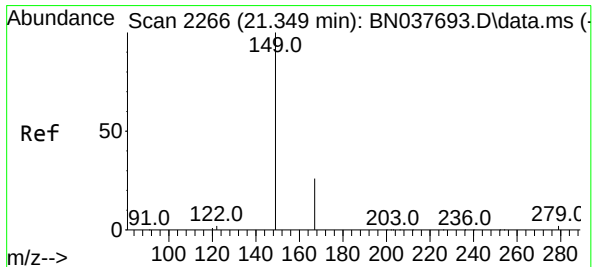
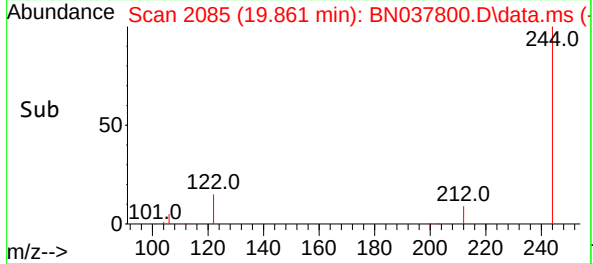
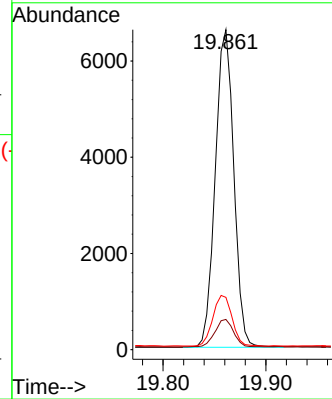
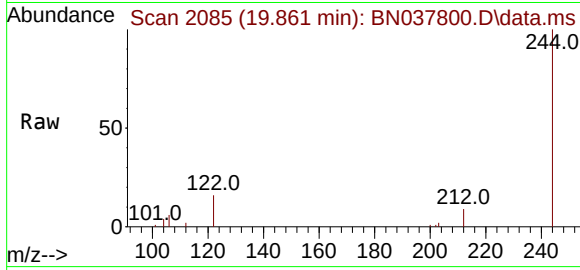




#31
Terphenyl-d14
Concen: 0.412 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

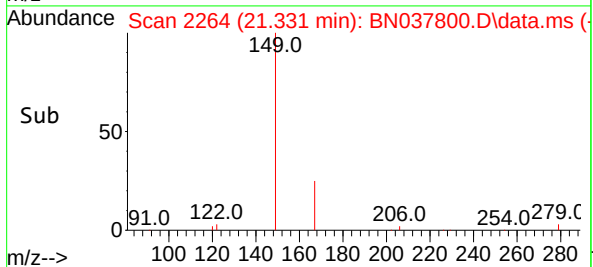
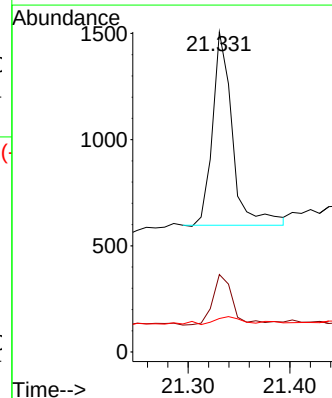
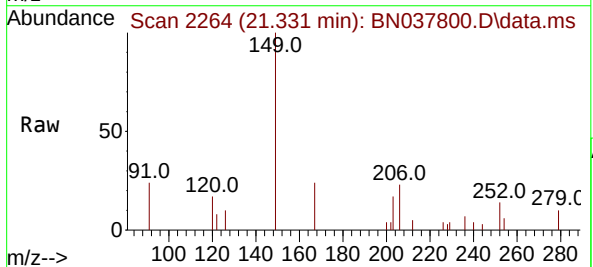
Instrument :
BNA_N
ClientSampleId :
RE122D3-20250911

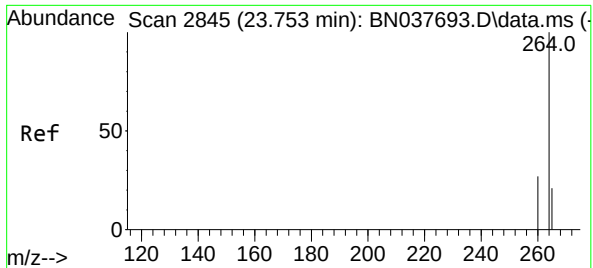
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.5	11.3
122	16.3	13.2	19.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.121 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.2	20.8	31.2
279	5.0	3.3	4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.739 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN037800.D

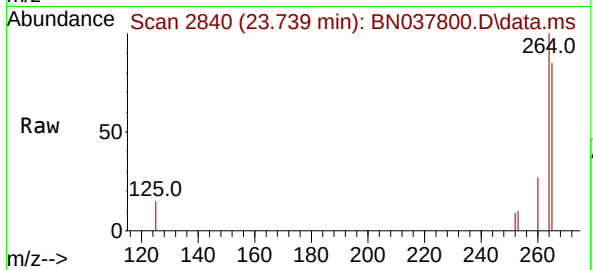
Acq: 19 Sep 2025 05:49

Instrument :

BNA_N

ClientSampleId :

RE122D3-20250911



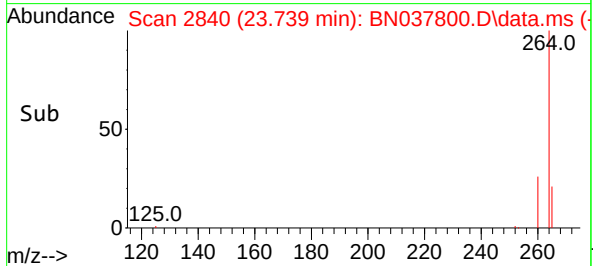
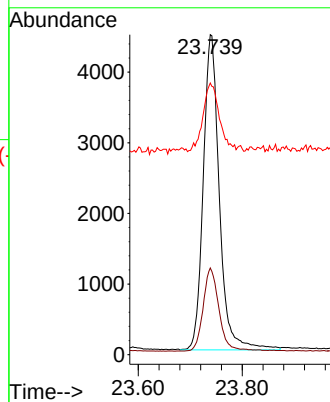
Tgt Ion:264 Resp: 9588

Ion Ratio Lower Upper

264 100

260 27.1 21.8 32.8

265 84.9 39.4 59.2#





CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN091125.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Thu Sep 11 14:20:01 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN037691.D 0.2 =BN037692.D 0.4 =BN037693.D 0.8 =BN037694.D 1.6 =BN037695.D 3.2 =BN037696.D 5 =BN037697.D

	Compound	0.1	0.2	0.4	0.8	1.6	3.2	5	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.429	0.422	0.411	0.432	0.418	0.388	0.417	3.80	
3)	n-Nitrosodimet...	0.530	0.564	0.515	0.556	0.550	0.551	0.544	3.34	
4) S	2-Fluorophenol	0.929	0.913	0.892	0.840	0.912	0.937	1.004	0.918	5.37
5) S	Phenol-d6	1.191	1.193	1.156	1.088	1.193	1.225	1.289	1.191	5.15
6)	bis(2-Chloroet...	1.076	1.075	1.070	1.019	1.078	1.066	1.063	1.064	1.94
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.287	0.279	0.285	0.272	0.296	0.303	0.325	0.293	6.05
9)	Naphthalene	1.091	1.072	1.074	1.036	1.117	1.115	1.149	1.093	3.38
10)	Hexachlorobuta...	0.199	0.196	0.197	0.189	0.203	0.199	0.202	0.198	2.29
11) SURR	2-Methylnaphth...	0.497	0.497	0.498	0.478	0.522	0.550	0.668	0.530	12.31
12)	2-Methylnaphth...	0.643	0.651	0.659	0.633	0.697	0.712	0.740	0.676	5.91
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.088	0.098	0.101	0.096	0.113	0.131	0.104	14.74	
15) S	2-Fluorobiphenyl	1.663	1.666	1.649	1.586	1.689	1.674	1.785	1.673	3.54
16)	Acenaphthylene	1.754	1.756	1.783	1.727	1.885	1.916	2.020	1.834	5.90
17)	Acenaphthene	1.165	1.199	1.215	1.187	1.272	1.296	1.348	1.240	5.37
18)	Fluorene	1.404	1.402	1.441	1.419	1.545	1.633	1.671	1.502	7.59
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.032	0.033	0.033	0.040	0.046	0.037	16.34		
21)	4-Bromophenyl-...	0.250	0.252	0.251	0.248	0.272	0.269	0.284	0.261	5.43
22)	Hexachlorobenzene	0.301	0.308	0.294	0.280	0.305	0.302	0.310	0.300	3.39
23)	Atrazine	0.145	0.151	0.152	0.146	0.169	0.190	0.209	0.166	15.00
24)	Pentachlorophenol	0.074	0.074	0.073	0.086	0.100	0.115	0.087	19.46	
25)	Phenanthrene	1.228	1.215	1.223	1.173	1.285	1.321	1.371	1.259	5.47
26)	Anthracene	1.038	1.029	1.070	1.030	1.140	1.221	1.281	1.116	9.09
27) SURR	Fluoranthene-d10	0.912	0.887	0.935	0.883	0.954	1.108	1.350	1.004	16.98
28)	Fluoranthene	1.257	1.224	1.310	1.269	1.393	1.578	1.637	1.381	11.91
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.578	1.618	1.557	1.473	1.603	1.542	1.590	1.566	3.09
31) S	Terphenyl-d14	0.806	0.833	0.801	0.754	0.812	0.784	0.892	0.812	5.30
32)	Benzo(a)anthra...	1.386	1.345	1.347	1.297	1.410	1.459	1.522	1.395	5.46
33)	Chrysene	1.523	1.491	1.496	1.402	1.510	1.506	1.543	1.496	3.01
34)	Bis(2-ethylhex...	0.440	0.376	0.345	0.380	0.438	0.504	0.414	13.96	
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN091125.M

36)	Indeno(1,2,3-c...	1.517	1.491	1.543	1.532	1.791	1.865	2.025	1.681	12.58
37)	Benzo(b)fluora...	1.463	1.475	1.554	1.444	1.636	1.674	1.778	1.575	7.99
38)	Benzo(k)fluora...	1.516	1.543	1.524	1.501	1.705	1.696	1.756	1.606	6.73
39) C	Benzo(a)pyrene	1.155	1.172	1.201	1.151	1.314	1.367	1.467	1.261	9.78
40)	Dibenzo(a,h)an...	1.157	1.175	1.210	1.232	1.463	1.519	1.636	1.342	14.39
41)	Benzo(g,h,i)pe...	1.413	1.402	1.451	1.375	1.568	1.607	1.723	1.506	8.59

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
 Data File : BN037691.D
 Acq On : 11 Sep 2025 09:56
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Sep 11 14:05:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:02:44 2025
 Response via : Initial Calibration

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

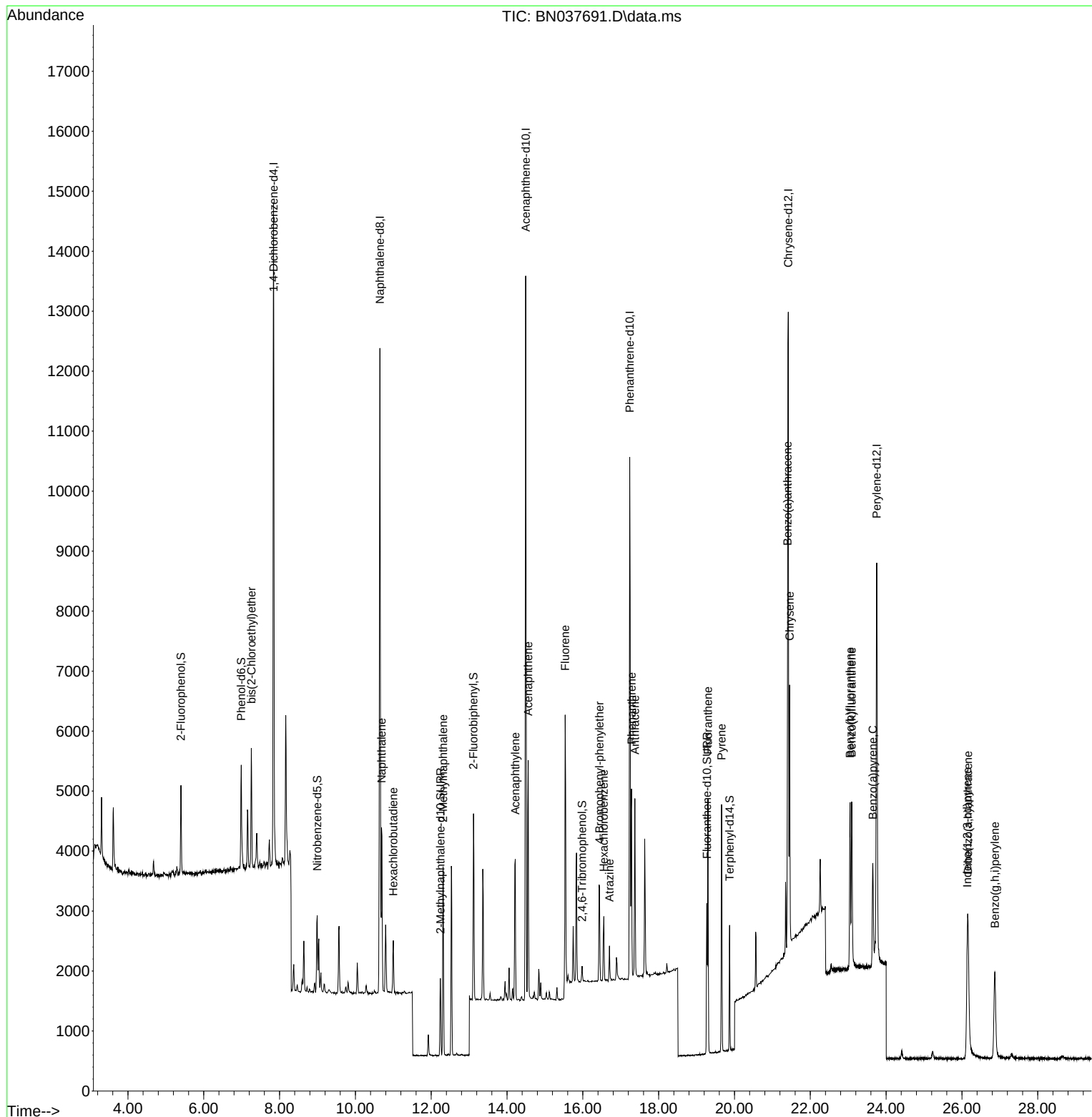
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	5271	0.400	ng	0.00
7) Naphthalene-d8	10.647	136	14013	0.400	ng	0.00
13) Acenaphthene-d10	14.494	164	6484	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	11736	0.400	ng	0.00
29) Chrysene-d12	21.420	240	9323	0.400	ng	0.00
35) Perylene-d12	23.753	264	9603	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	1224	0.101	ng	0.00
5) Phenol-d6	6.987	99	1570	0.100	ng	0.00
8) Nitrobenzene-d5	8.992	82	1006	0.098	ng	0.00
11) 2-Methylnaphthalene-d10	12.242	152	1740	0.094	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	142	0.084	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	2696	0.099	ng	0.00
27) Fluoranthene-d10	19.271	212	2677	0.091	ng	0.00
31) Terphenyl-d14	19.870	244	1879	0.099	ng	0.00
Target Compounds						
						Qvalue
6) bis(2-Chloroethyl)ether	7.255	93	1418	0.101	ng	98
9) Naphthalene	10.690	128	3822	0.100	ng	95
10) Hexachlorobutadiene	11.000	225	697	0.101	ng	# 99
12) 2-Methylnaphthalene	12.313	142	2253	0.095	ng	97
16) Acenaphthylene	14.216	152	2843	0.096	ng	99
17) Acenaphthene	14.558	154	1889	0.094	ng	94
18) Fluorene	15.535	166	2276	0.093	ng	99
21) 4-Bromophenyl-phenylether	16.441	248	733	0.096	ng	# 95
22) Hexachlorobenzene	16.552	284	883	0.100	ng	99
23) Atrazine	16.701	200	426	0.088	ng	# 89
25) Phenanthrene	17.285	178	3604	0.098	ng	98
26) Anthracene	17.372	178	3046	0.093	ng	99
28) Fluoranthene	19.299	202	3689	0.091	ng	99
30) Pyrene	19.661	202	3679	0.101	ng	99
32) Benzo(a)anthracene	21.402	228	3231	0.099	ng	99
33) Chrysene	21.456	228	3549	0.102	ng	97
36) Indeno(1,2,3-cd)pyrene	26.142	276	3642	0.090	ng	97
37) Benzo(b)fluoranthene	23.048	252	3513	0.093	ng	# 82
38) Benzo(k)fluoranthene	23.092	252	3640	0.094	ng	# 73
39) Benzo(a)pyrene	23.651	252	2774	0.092	ng	# 76
40) Dibenzo(a,h)anthracene	26.159	278	2778	0.086	ng	# 79
41) Benzo(g,h,i)perylene	26.870	276	3393	0.094	ng	# 91

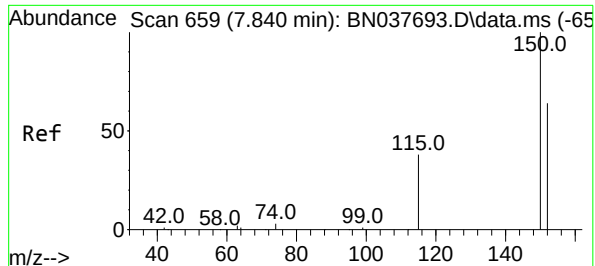
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037691.D
Acq On : 11 Sep 2025 09:56
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Sep 11 14:05:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration

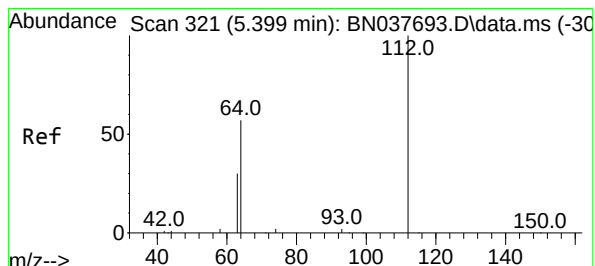
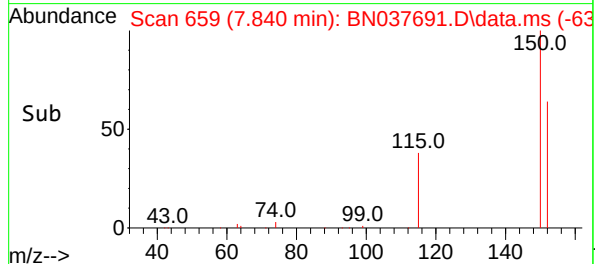
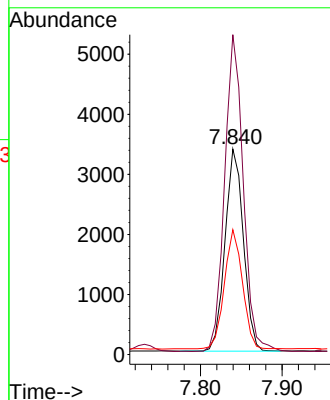
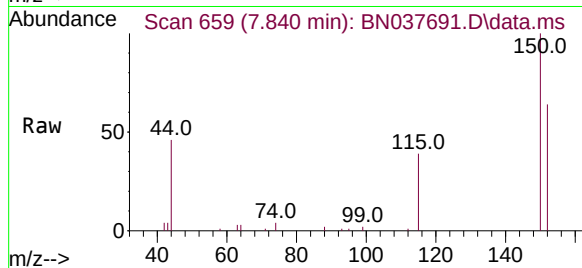




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 659
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

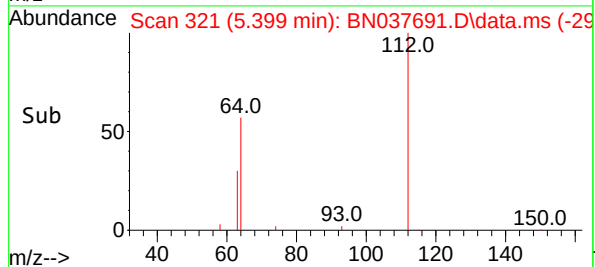
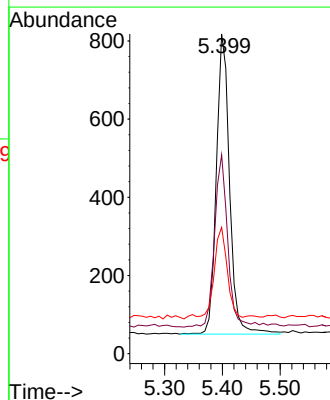
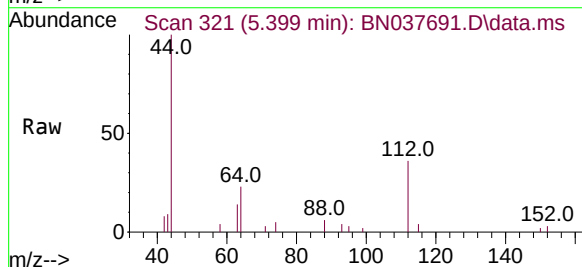
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

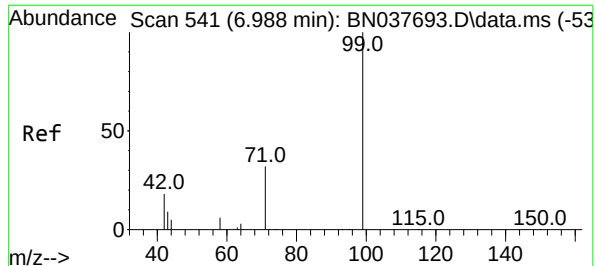
Tgt Ion:152 Resp: 5271
Ion Ratio Lower Upper
152 100
150 155.8 124.5 186.7
115 60.8 49.2 73.8



#4
2-Fluorophenol
Concen: 0.101 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:112 Resp: 1224
Ion Ratio Lower Upper
112 100
64 58.5 44.9 67.3
63 28.8 24.7 37.1

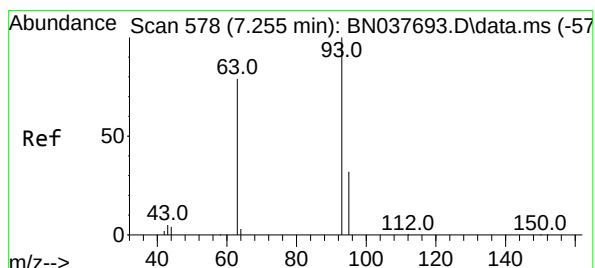
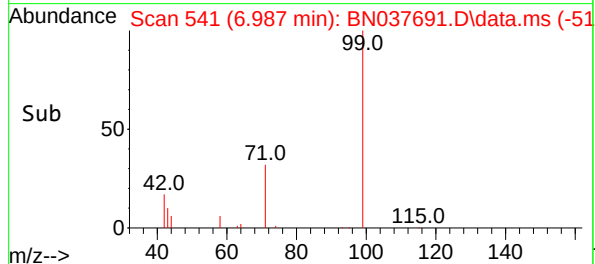
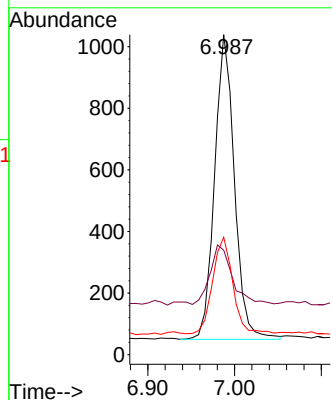
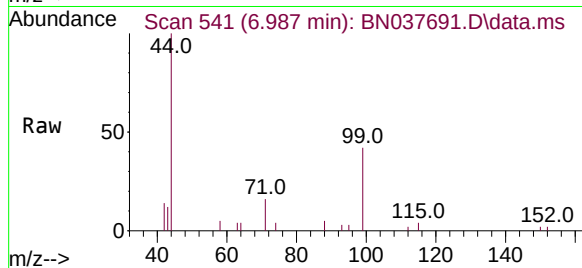




#5
Phenol-d6
Concen: 0.100 ng
RT: 6.987 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

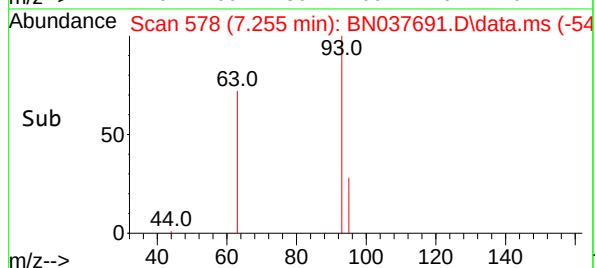
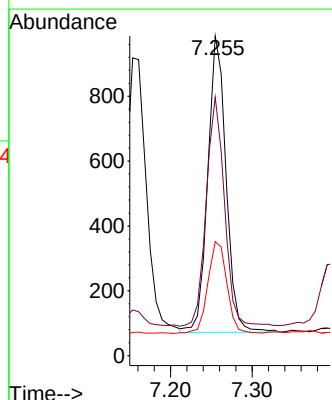
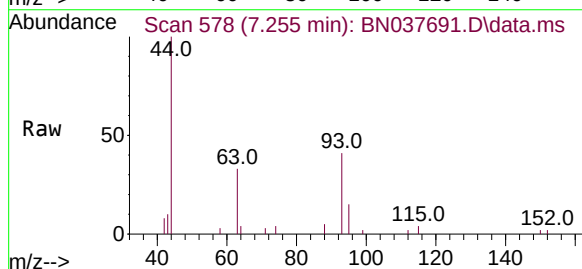
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

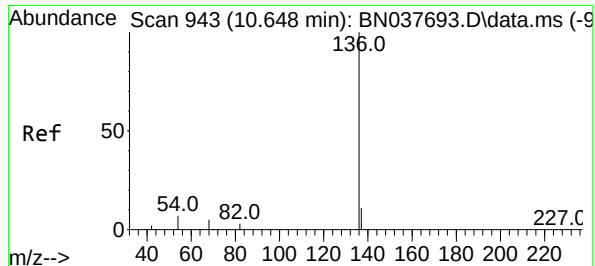
Tgt Ion: 99 Resp: 1570
Ion Ratio Lower Upper
99 100
42 21.8 16.6 24.8
71 32.4 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.101 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion: 93 Resp: 1418
Ion Ratio Lower Upper
93 100
63 77.9 60.6 90.8
95 32.2 26.0 39.0

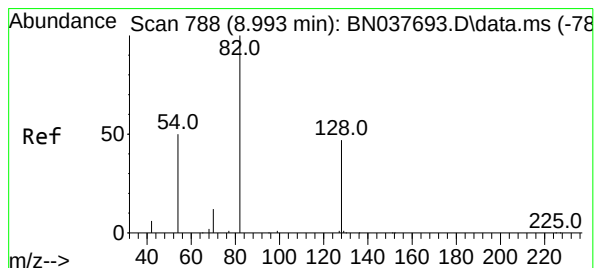
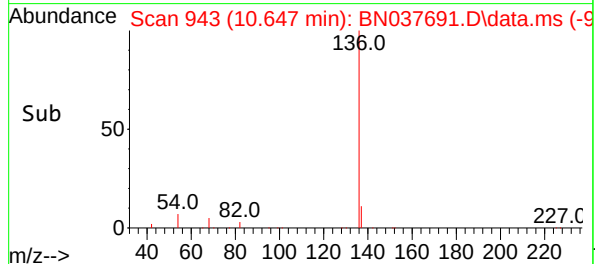
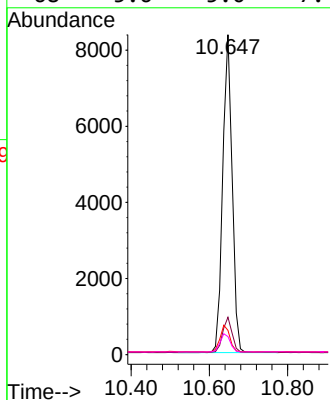
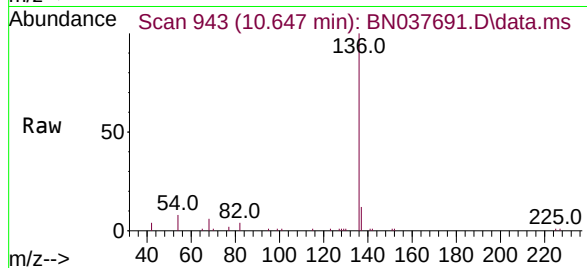




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.647 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

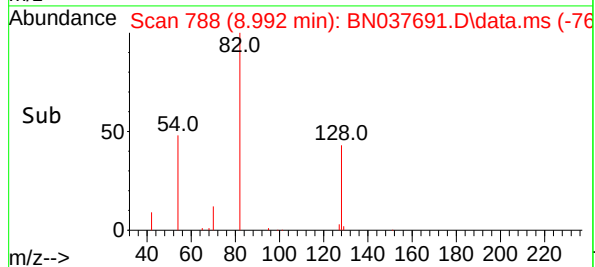
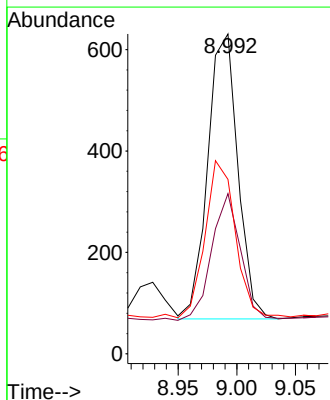
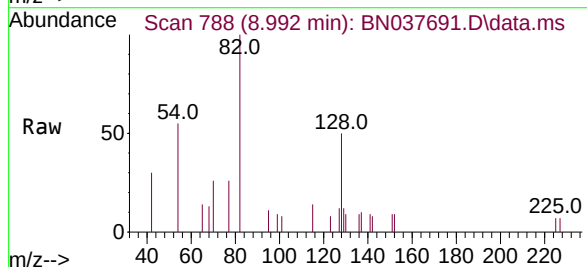
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

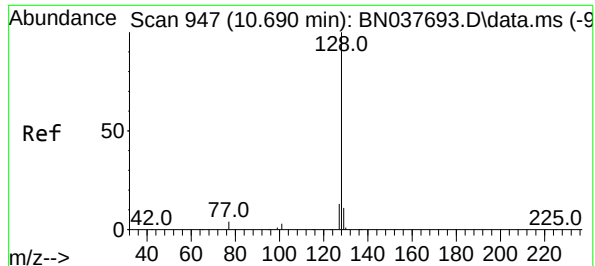
Tgt Ion:	136	Resp:	14013
Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.1	13.7
54	7.6	6.3	9.5
68	5.6	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.098 ng
RT: 8.992 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:	82	Resp:	1006
Ion	Ratio	Lower	Upper
82	100		
128	50.1	38.3	57.5
54	54.5	41.4	62.2

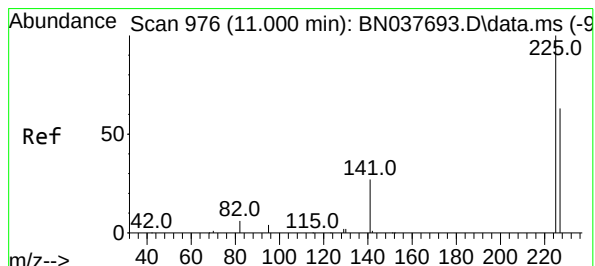
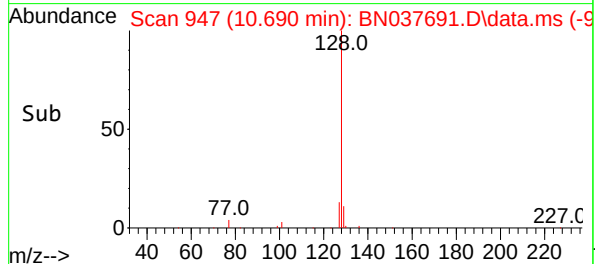
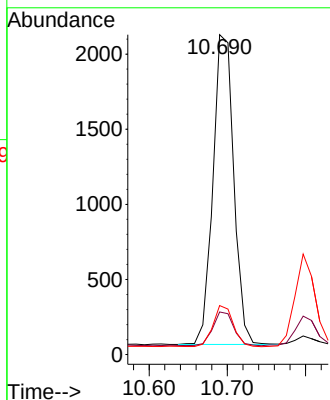
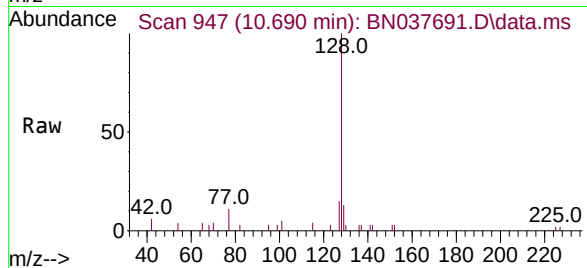




#9
Naphthalene
Concen: 0.100 ng
RT: 10.690 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

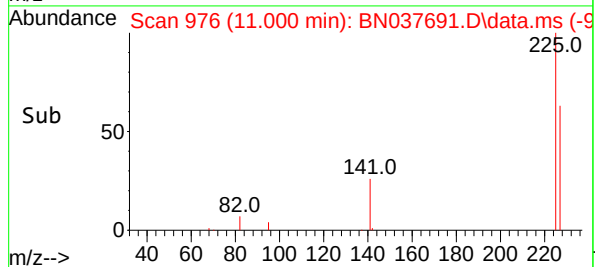
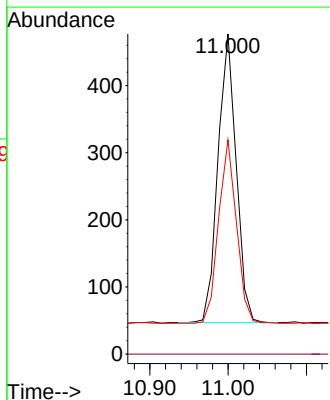
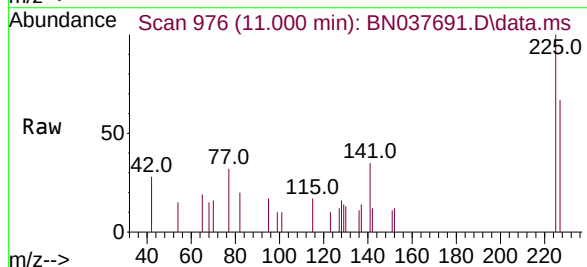
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

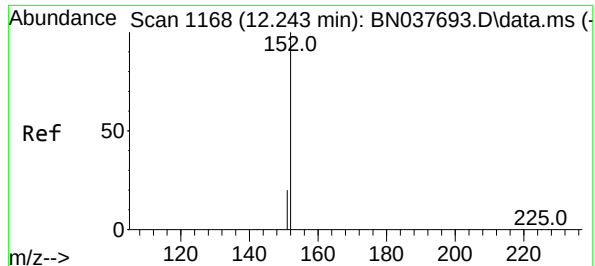
Tgt Ion:128 Resp: 3822
Ion Ratio Lower Upper
128 100
129 13.3 9.1 13.7
127 15.3 10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.101 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:225 Resp: 697
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.6 50.9 76.3

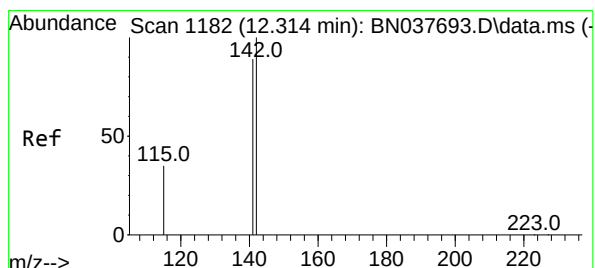
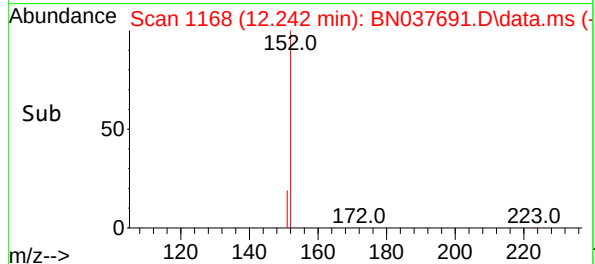
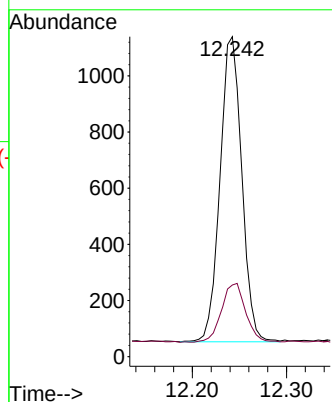
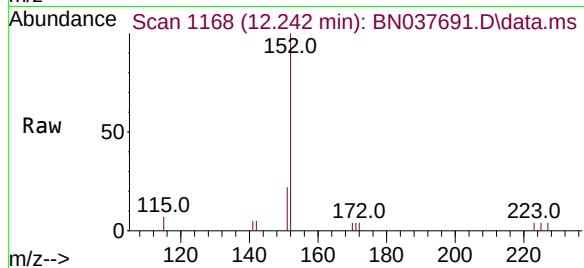




#11
2-Methylnaphthalene-d10
Concen: 0.094 ng
RT: 12.242 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

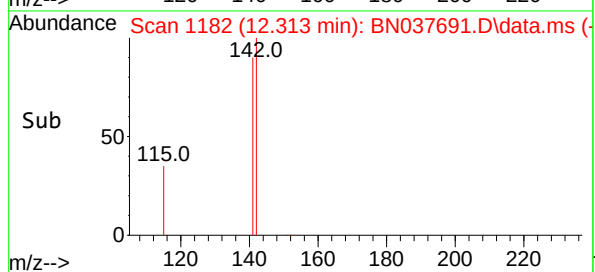
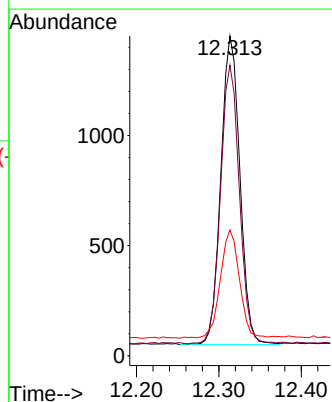
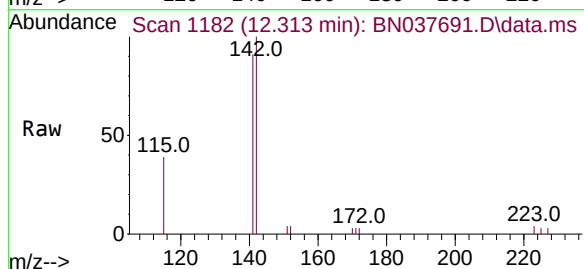
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

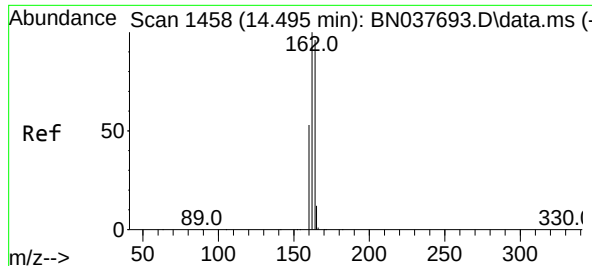
Tgt Ion:152 Resp: 1740
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.095 ng
RT: 12.313 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:142 Resp: 2253
Ion Ratio Lower Upper
142 100
141 90.8 71.6 107.4
115 39.3 28.6 43.0

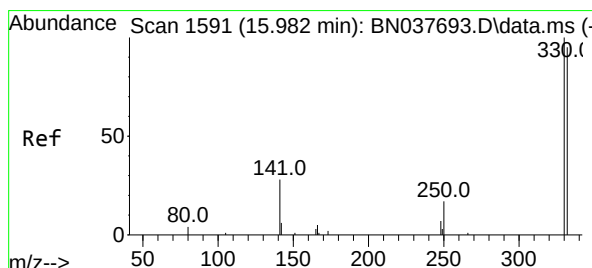
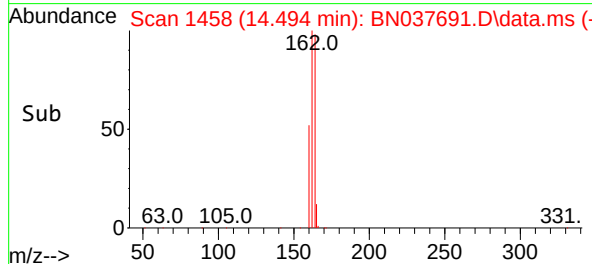
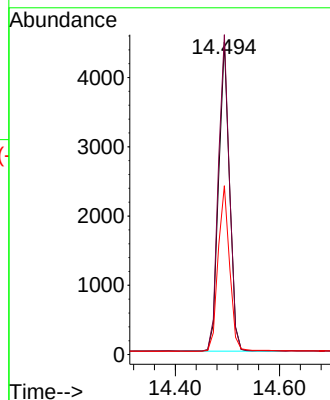
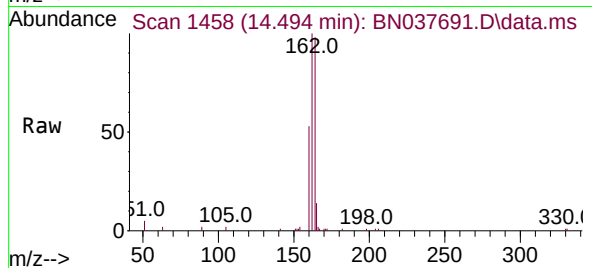




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

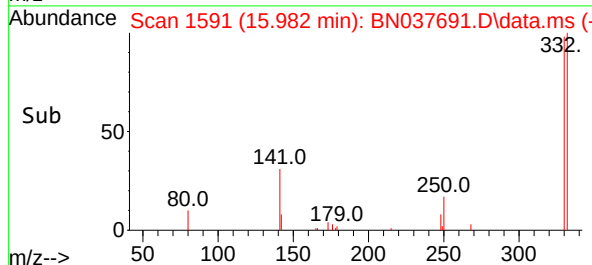
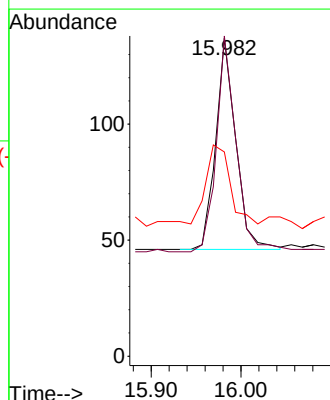
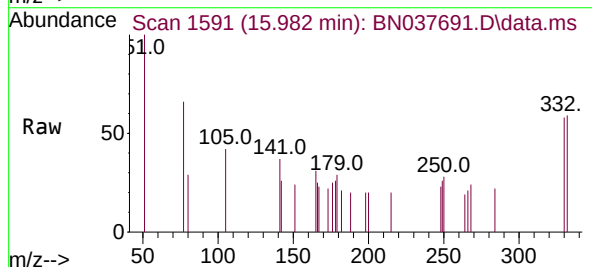
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

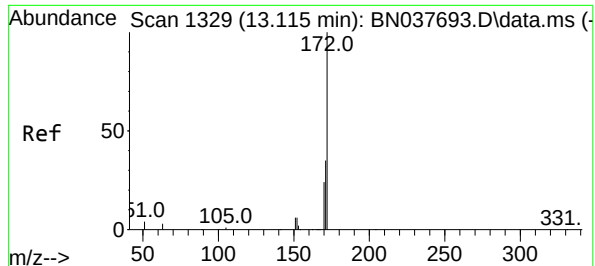
Tgt Ion:164 Resp: 6484
Ion Ratio Lower Upper
164 100
162 102.4 83.1 124.7
160 54.0 44.3 66.5



#14
2,4,6-Tribromophenol
Concen: 0.084 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:330 Resp: 142
Ion Ratio Lower Upper
330 100
332 101.4 75.3 112.9
141 44.4 35.0 52.4





#15

2-Fluorobiphenyl

Concen: 0.099 ng

RT: 13.115 min Scan# 1329

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

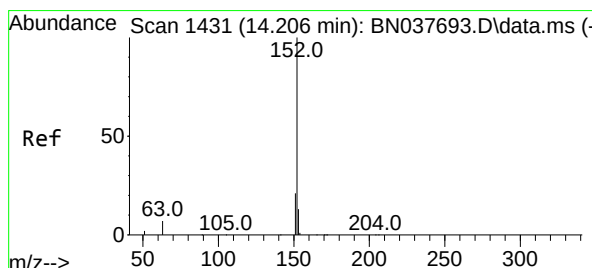
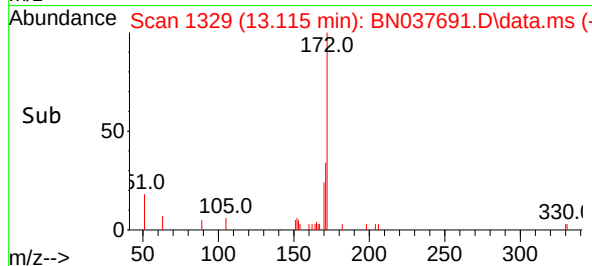
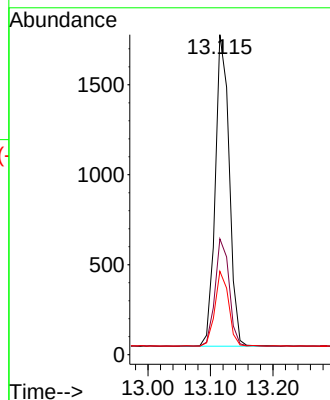
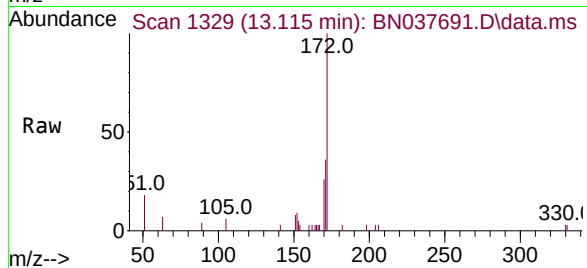
Tgt Ion:172 Resp: 2696

Ion Ratio Lower Upper

172 100

171 36.2 28.6 43.0

170 26.0 19.8 29.8



#16

Acenaphthylene

Concen: 0.096 ng

RT: 14.216 min Scan# 1432

Delta R.T. 0.010 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

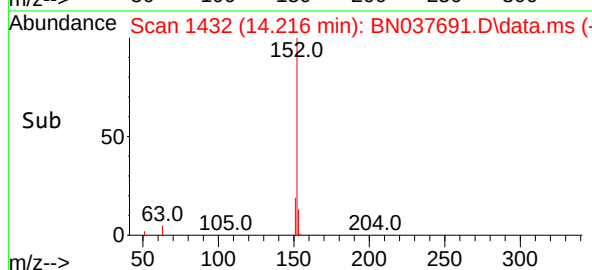
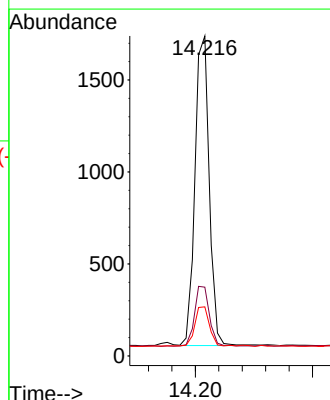
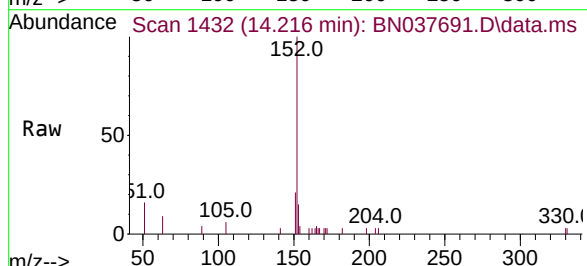
Tgt Ion:152 Resp: 2843

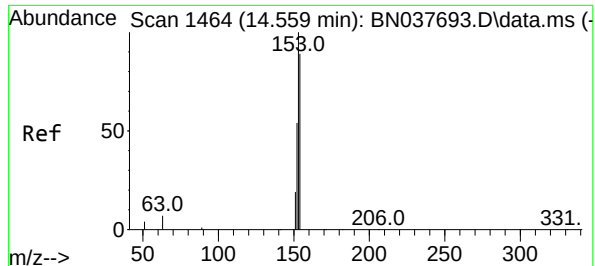
Ion Ratio Lower Upper

152 100

151 20.5 16.2 24.2

153 13.5 10.4 15.6

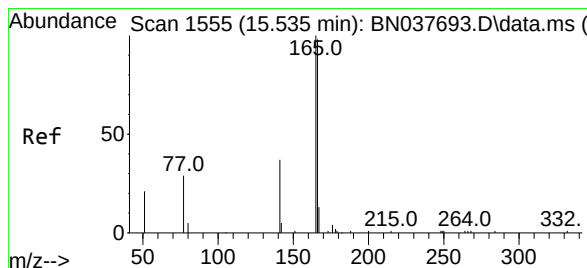
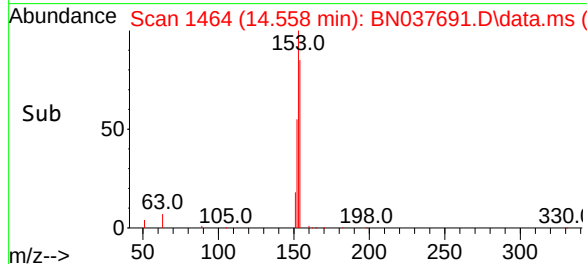
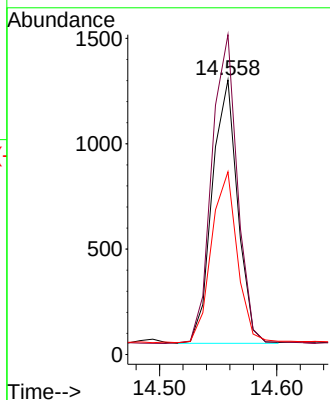
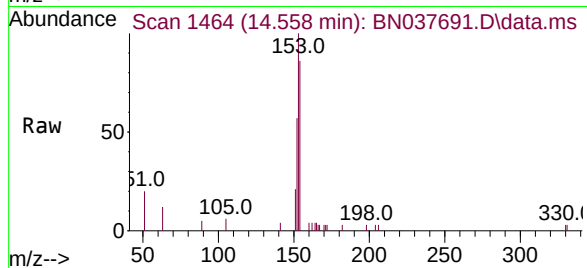




#17
Acenaphthene
Concen: 0.094 ng
RT: 14.558 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

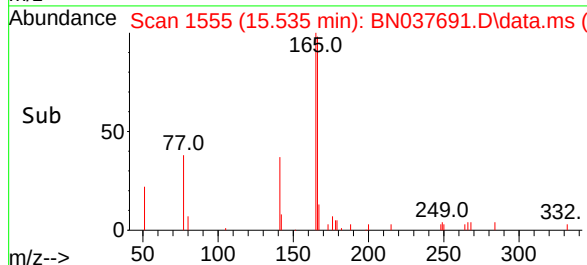
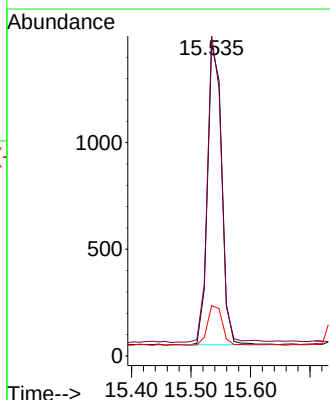
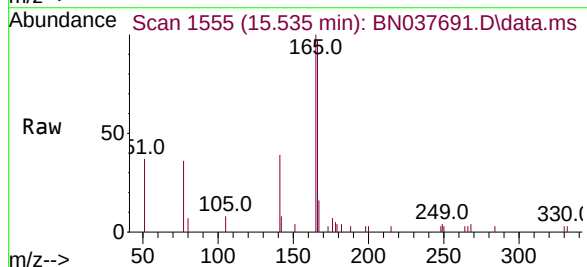
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

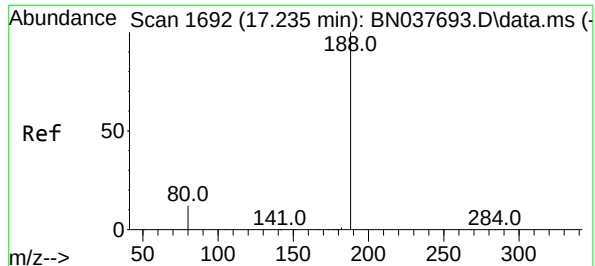
Tgt Ion:154 Resp: 1889
Ion Ratio Lower Upper
154 100
153 118.1 89.8 134.8
152 67.5 50.2 75.2



#18
Fluorene
Concen: 0.093 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:166 Resp: 2276
Ion Ratio Lower Upper
166 100
165 100.0 79.6 119.4
167 14.0 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

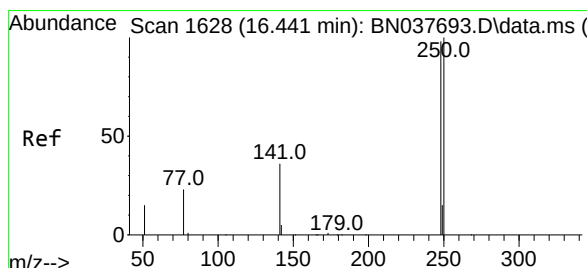
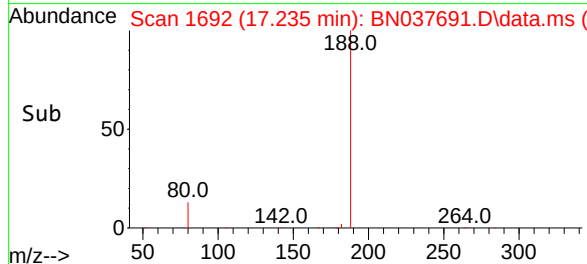
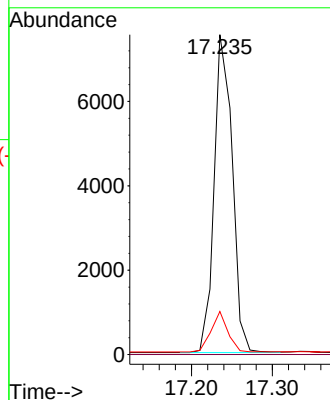
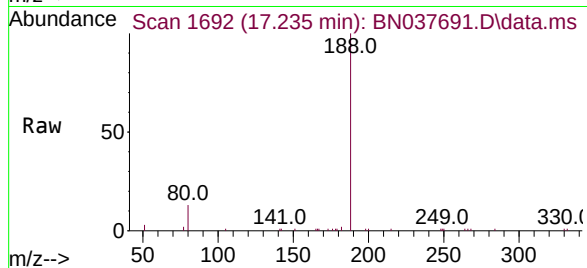
Tgt Ion:188 Resp: 11736

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.5 10.6 15.8



#21

4-Bromophenyl-phenylether

Concen: 0.096 ng

RT: 16.441 min Scan# 1628

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

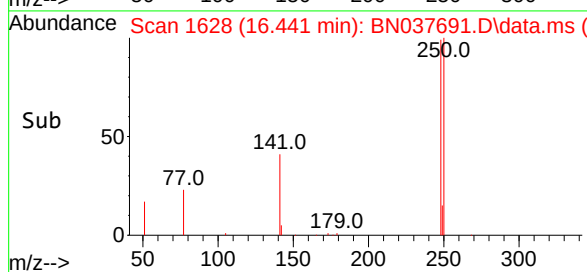
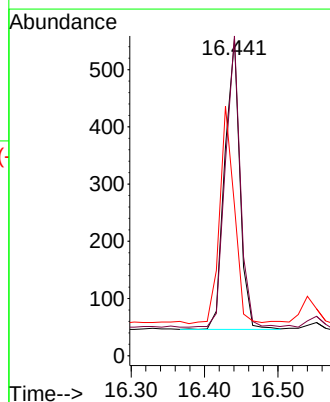
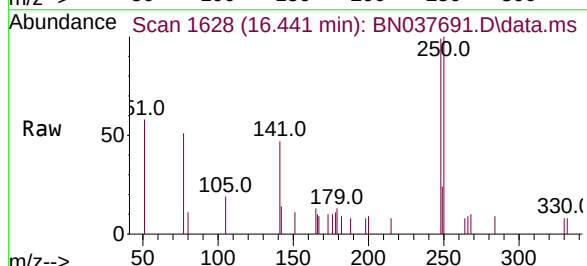
Tgt Ion:248 Resp: 733

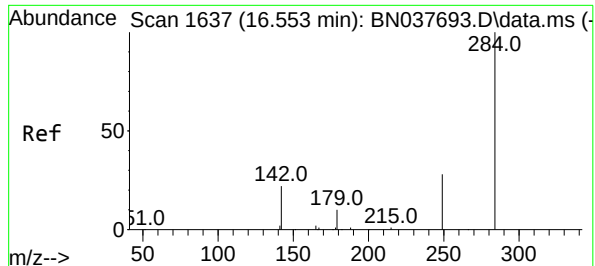
Ion Ratio Lower Upper

248 100

250 101.1 81.5 122.3

141 47.6 30.8 46.2#





#22

Hexachlorobenzene

Concen: 0.100 ng

RT: 16.552 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

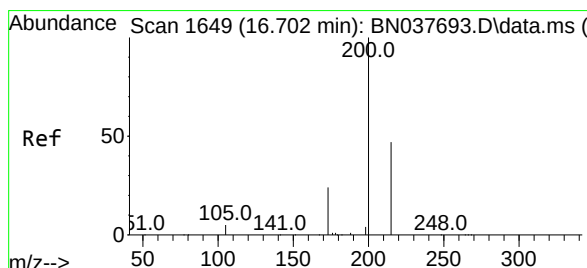
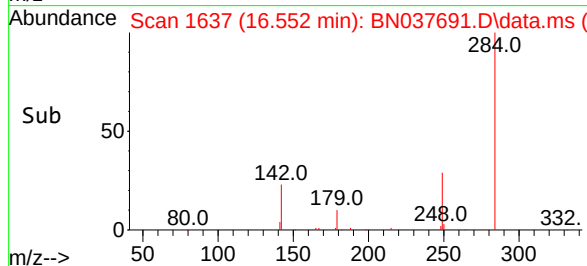
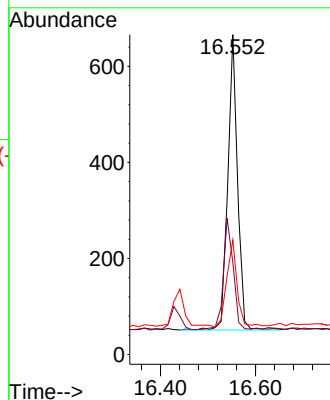
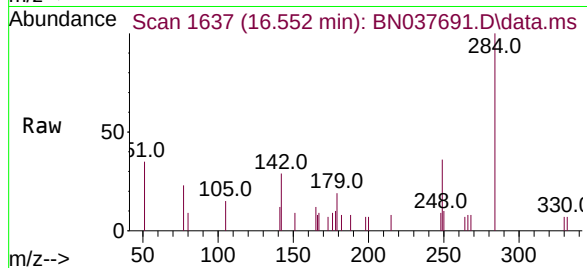
Tgt Ion:284 Resp: 883

Ion Ratio Lower Upper

284 100

142 38.1 30.9 46.3

249 29.9 24.8 37.2



#23

Atrazine

Concen: 0.088 ng

RT: 16.701 min Scan# 1649

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

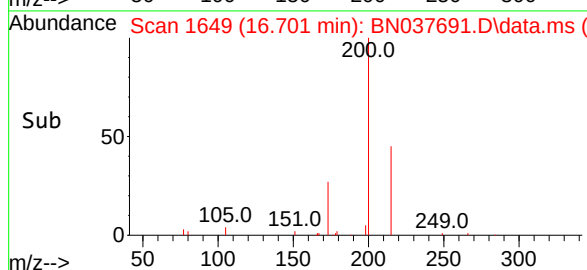
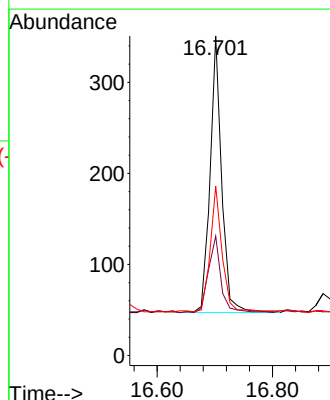
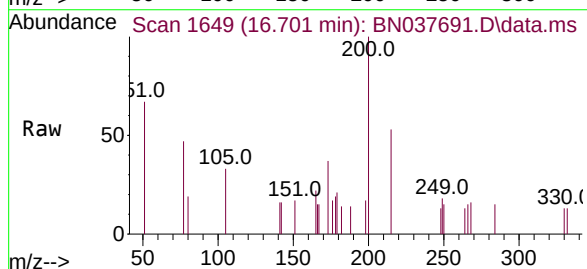
Tgt Ion:200 Resp: 426

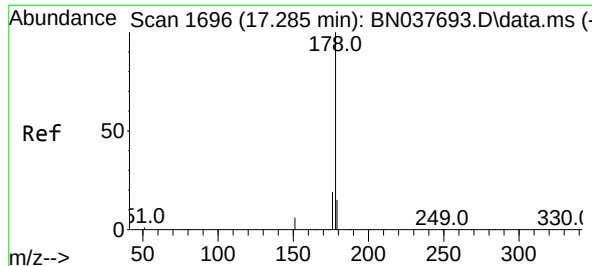
Ion Ratio Lower Upper

200 100

173 37.3 21.4 32.2#

215 53.0 39.2 58.8

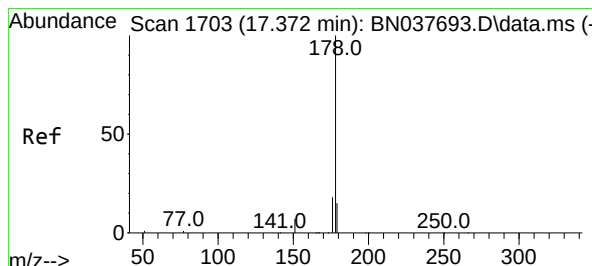
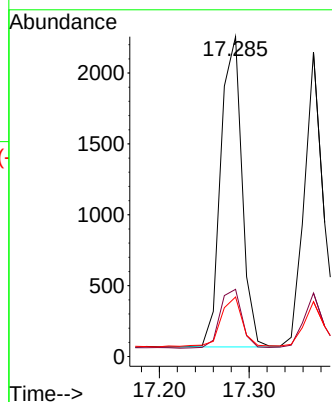
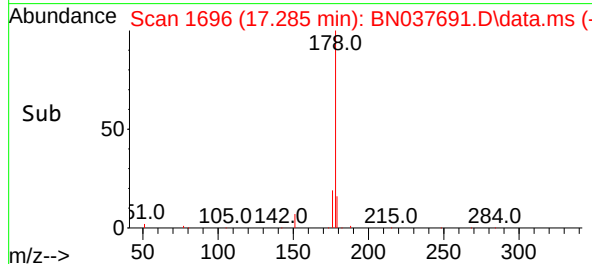
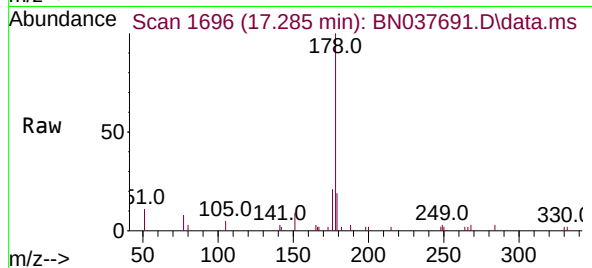




#25
Phenanthrene
Concen: 0.098 ng
RT: 17.285 min Scan# 1696
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

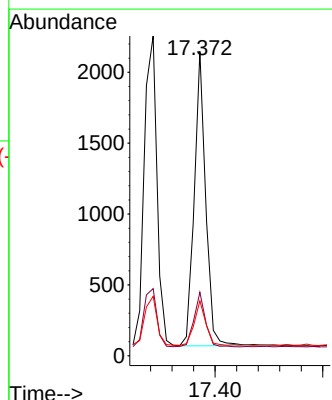
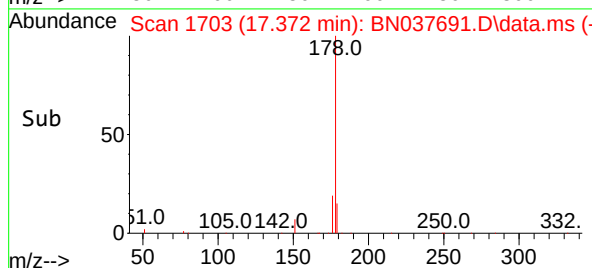
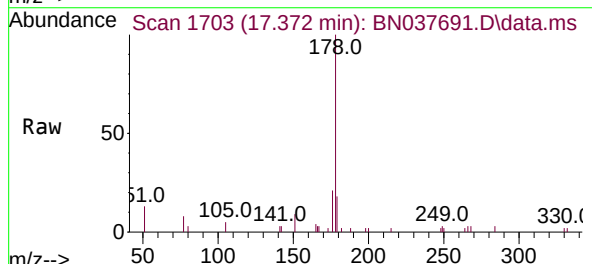
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

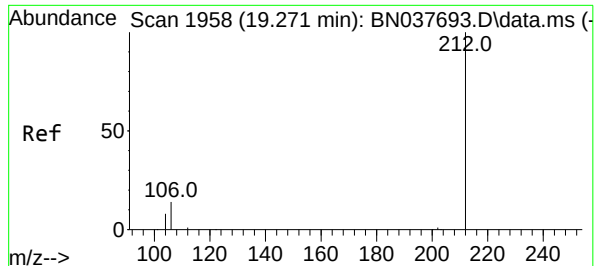
Tgt Ion:178 Resp: 3604
Ion Ratio Lower Upper
178 100
176 19.7 15.3 22.9
179 16.6 12.2 18.2



#26
Anthracene
Concen: 0.093 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:178 Resp: 3046
Ion Ratio Lower Upper
178 100
176 18.7 14.6 22.0
179 15.1 12.2 18.4





#27

Fluoranthene-d10

Concen: 0.091 ng

RT: 19.271 min Scan# 1958

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

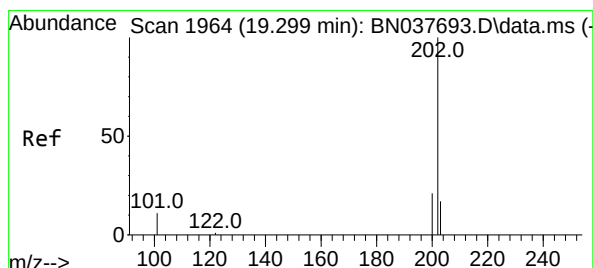
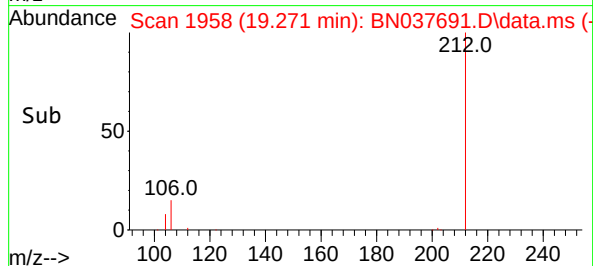
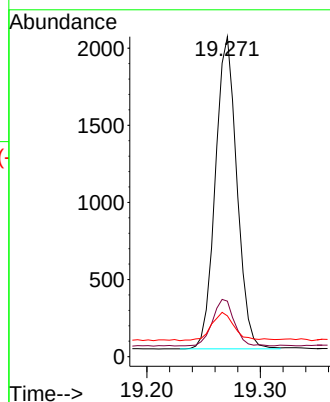
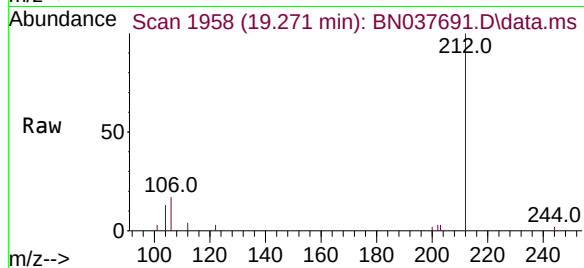
Tgt Ion:212 Resp: 2677

Ion Ratio Lower Upper

212 100

106 14.9 12.2 18.2

104 9.4 6.9 10.3



#28

Fluoranthene

Concen: 0.091 ng

RT: 19.299 min Scan# 1964

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

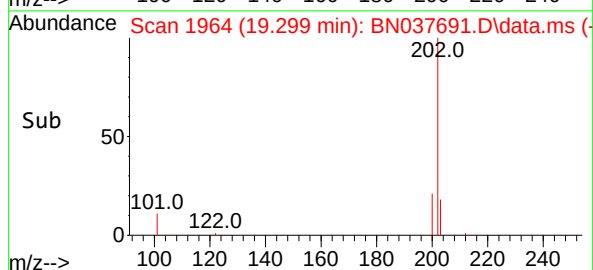
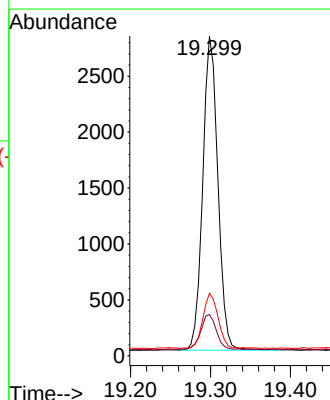
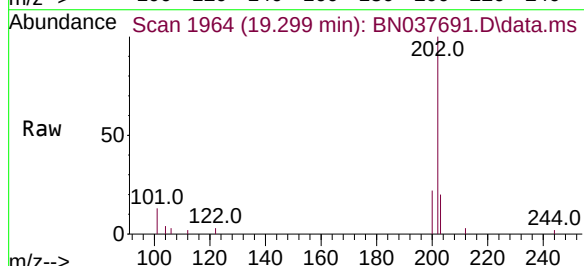
Tgt Ion:202 Resp: 3689

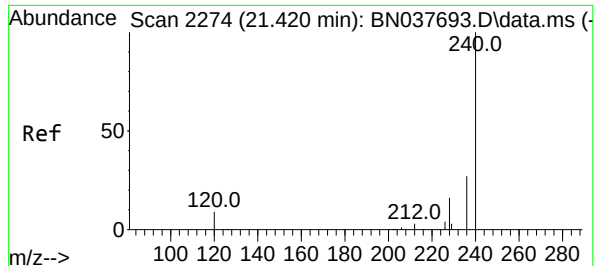
Ion Ratio Lower Upper

202 100

101 11.4 9.3 13.9

203 17.5 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.420 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

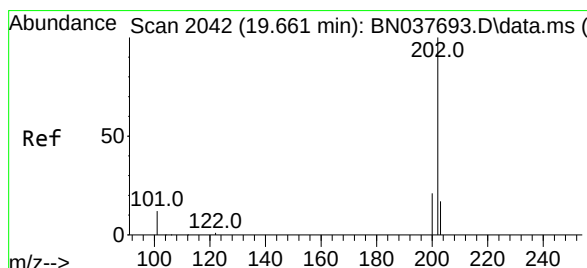
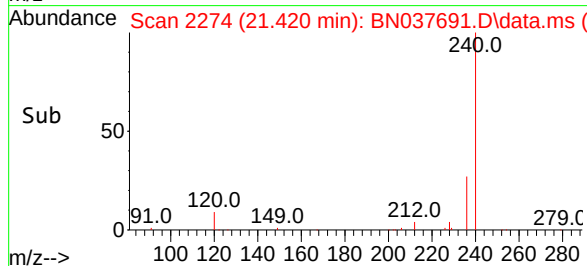
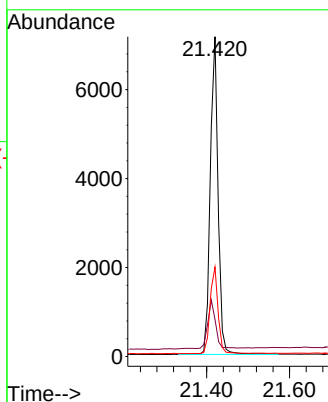
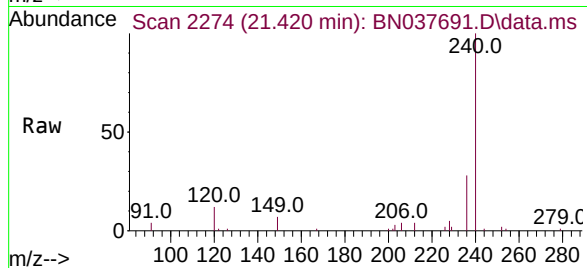
Tgt Ion:240 Resp: 9323

Ion Ratio Lower Upper

240 100

120 11.6 9.2 13.8

236 28.0 22.6 33.8



#30

Pyrene

Concen: 0.101 ng

RT: 19.661 min Scan# 2042

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

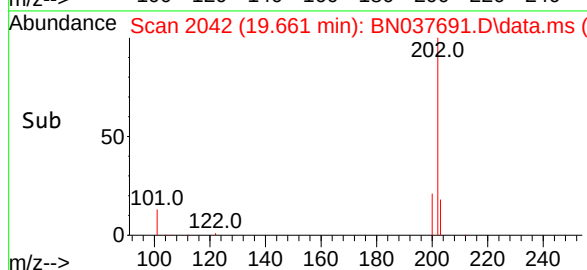
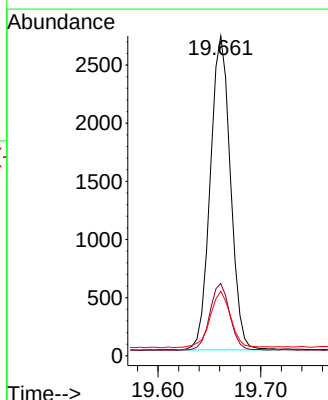
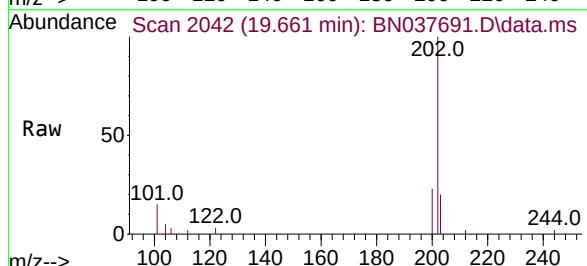
Tgt Ion:202 Resp: 3679

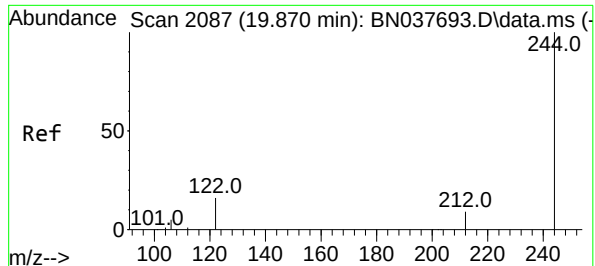
Ion Ratio Lower Upper

202 100

200 20.9 16.8 25.2

203 18.4 14.3 21.5

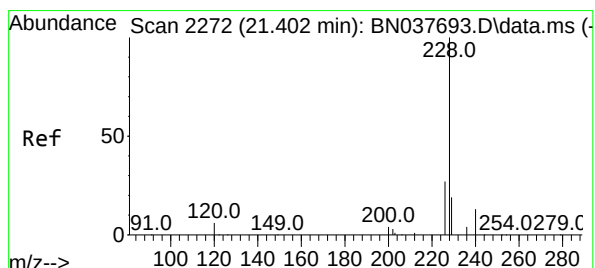
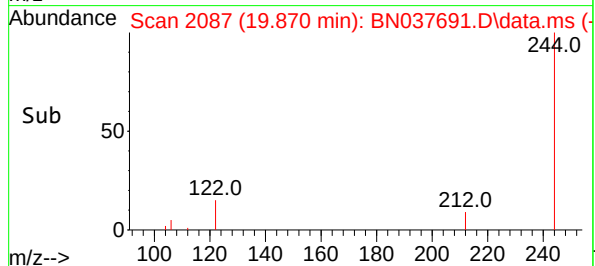
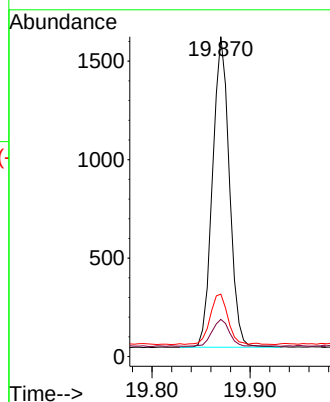
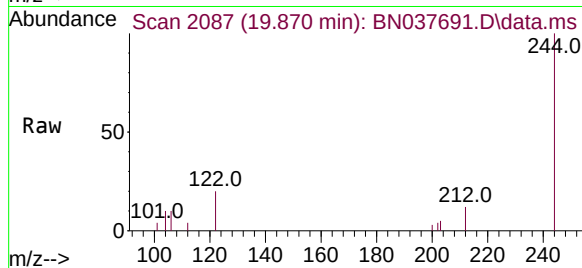




#31
Terphenyl-d14
Concen: 0.099 ng
RT: 19.870 min Scan# 2087
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

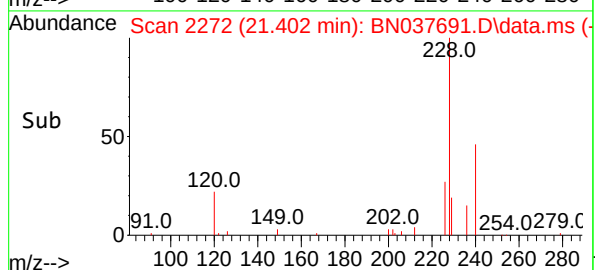
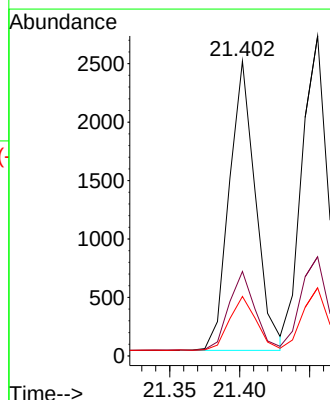
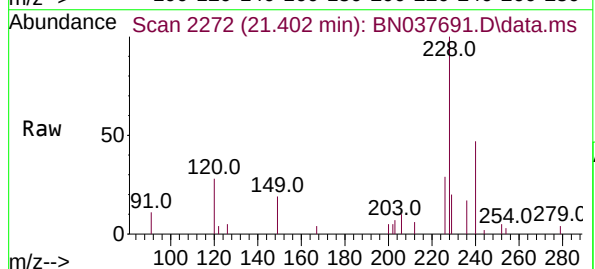
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

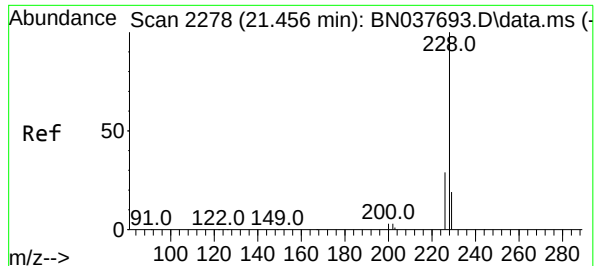
Tgt Ion	244	212	122
Resp:	1879		
Ion Ratio	100	11.6	19.5
Lower		7.5	13.2
Upper		11.3#	19.8



#32
Benzo(a)anthracene
Concen: 0.099 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion	228	226	229
Resp:	3231		
Ion Ratio	100	28.6	20.2
Lower		22.2	15.8
Upper		33.2	23.6

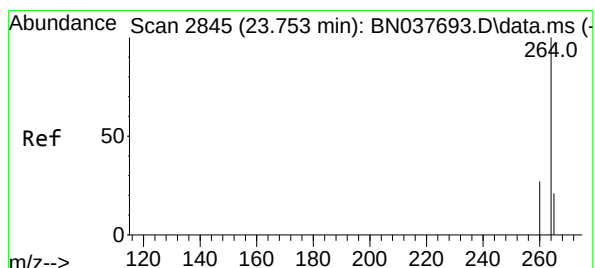
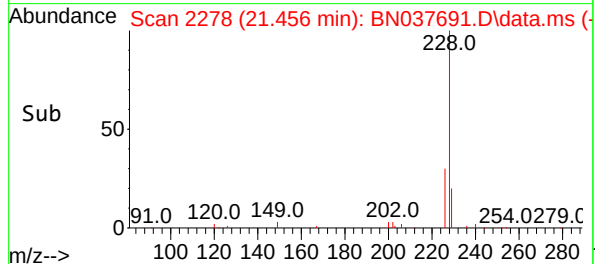
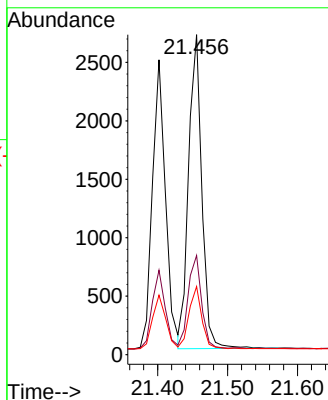
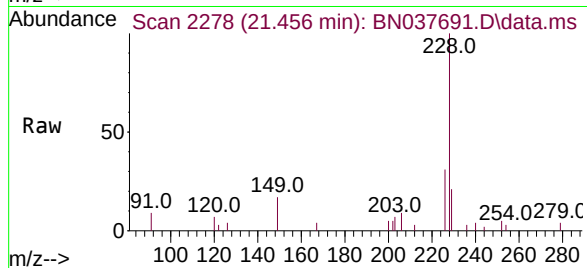




#33
Chrysene
Concen: 0.102 ng
RT: 21.456 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

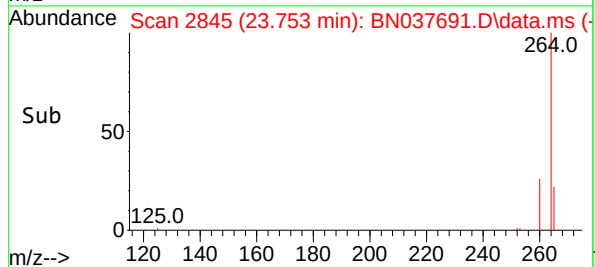
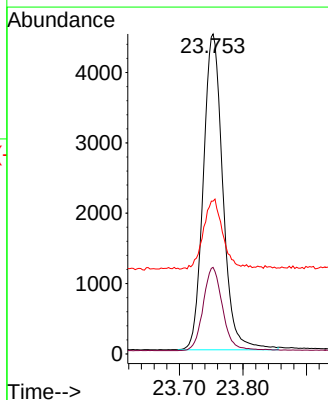
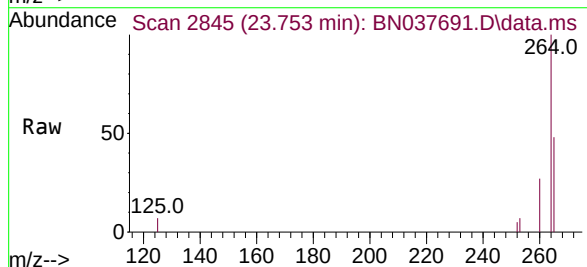
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

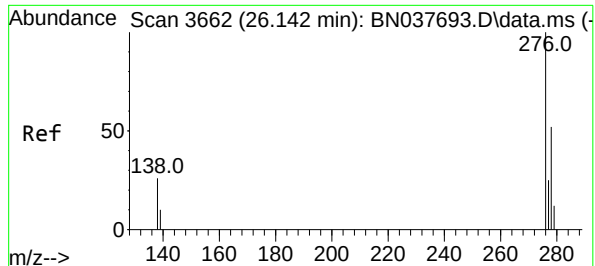
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.0	23.5	35.3
229	21.3	15.9	23.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.753 min Scan# 2845
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.8	32.8
265	47.7	39.4	59.2





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.090 ng

RT: 26.142 min Scan# 3662

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

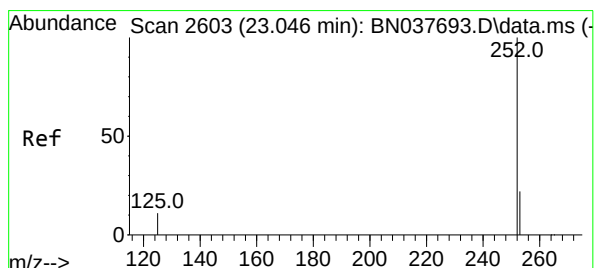
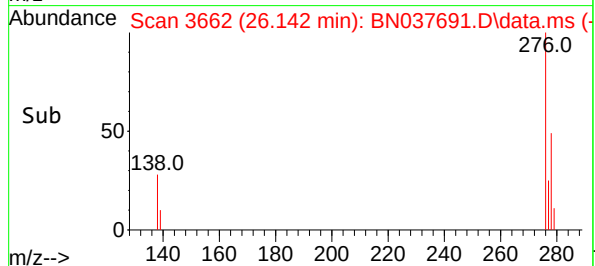
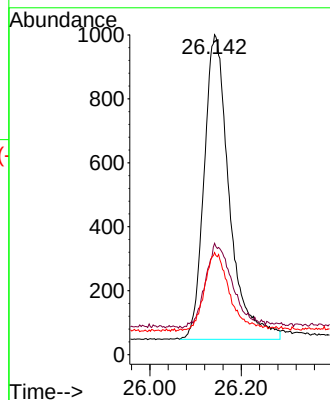
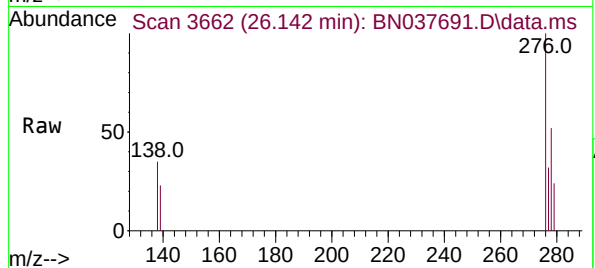
Tgt Ion:276 Resp: 3642

Ion Ratio Lower Upper

276 100

138 29.4 21.9 32.9

277 23.8 20.1 30.1



#37

Benzo(b)fluoranthene

Concen: 0.093 ng

RT: 23.048 min Scan# 2604

Delta R.T. 0.003 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

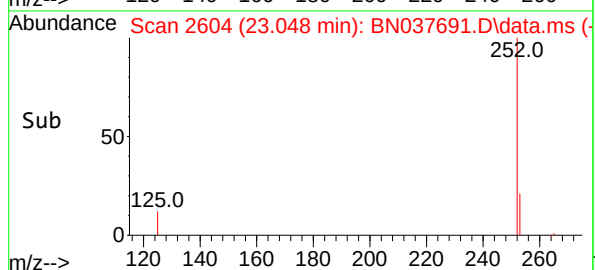
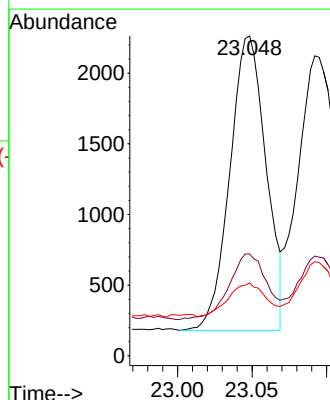
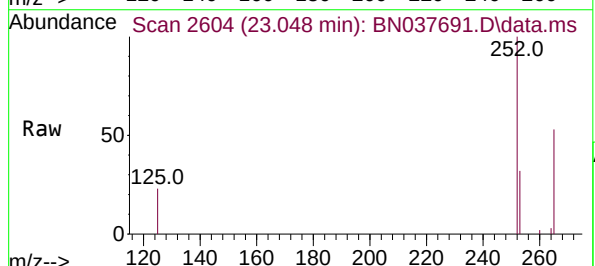
Tgt Ion:252 Resp: 3513

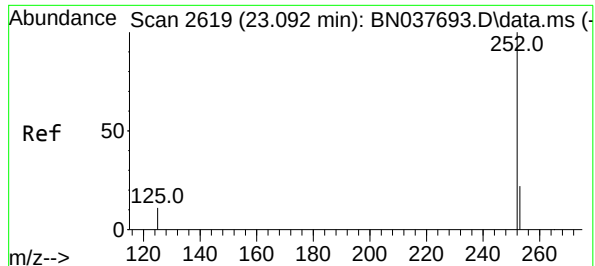
Ion Ratio Lower Upper

252 100

253 31.8 19.4 29.2#

125 22.8 11.2 16.8#





#38

Benzo(k)fluoranthene

Concen: 0.094 ng

RT: 23.092 min Scan# 2619

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

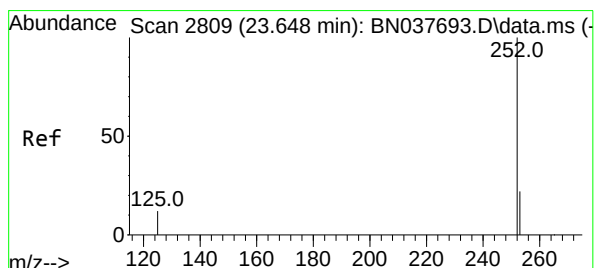
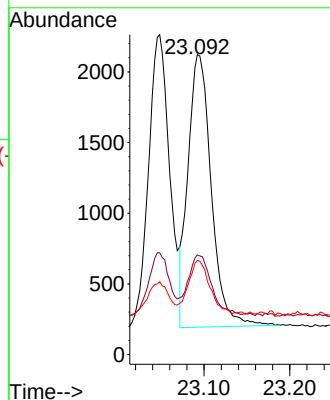
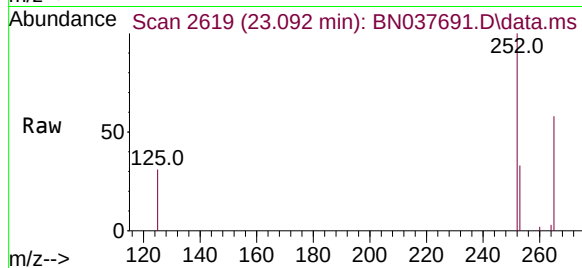
Tgt Ion:252 Resp: 3640

Ion Ratio Lower Upper

252 100

253 33.3 19.4 29.0#

125 31.4 11.6 17.4#



#39

Benzo(a)pyrene

Concen: 0.092 ng

RT: 23.651 min Scan# 2810

Delta R.T. 0.003 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

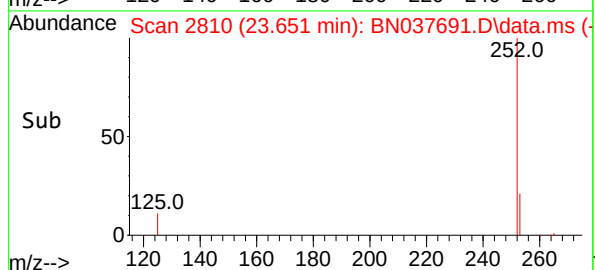
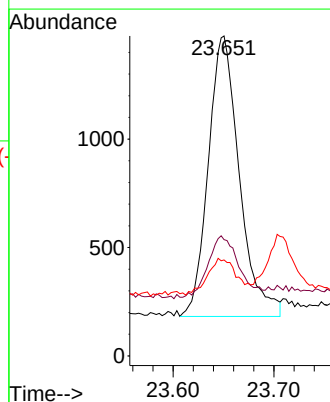
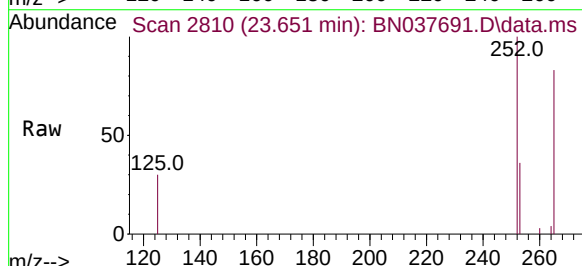
Tgt Ion:252 Resp: 2774

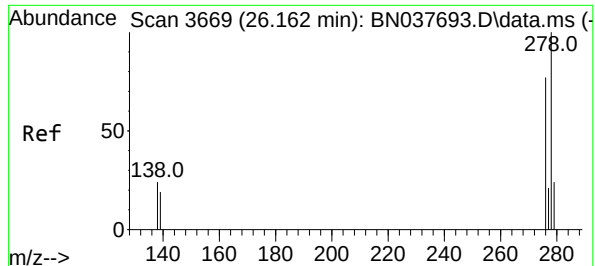
Ion Ratio Lower Upper

252 100

253 36.3 20.8 31.2#

125 30.0 13.9 20.9#





#40

Dibenzo(a,h)anthracene

Concen: 0.086 ng

RT: 26.159 min Scan# 3668

Delta R.T. -0.003 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

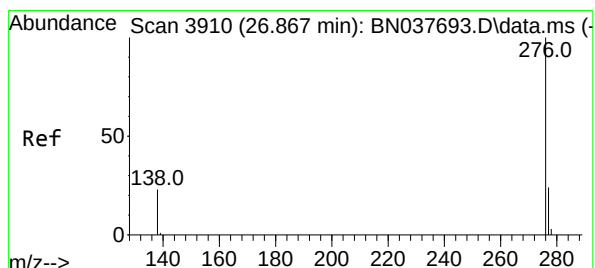
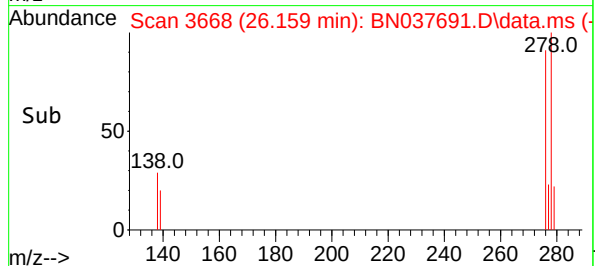
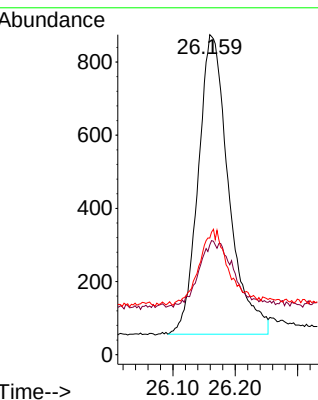
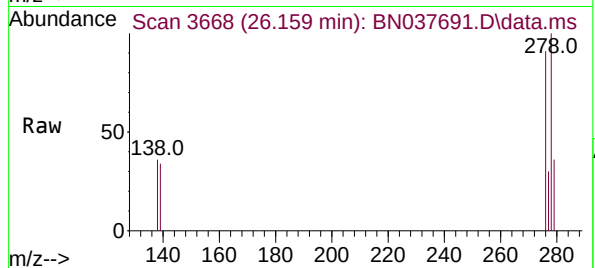
Tgt Ion:278 Resp: 2778

Ion Ratio Lower Upper

278 100

139 34.3 17.8 26.6#

279 36.5 22.0 33.0#



#41

Benzo(g,h,i)perylene

Concen: 0.094 ng

RT: 26.870 min Scan# 3911

Delta R.T. 0.003 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

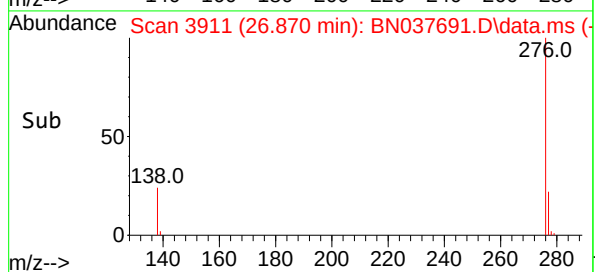
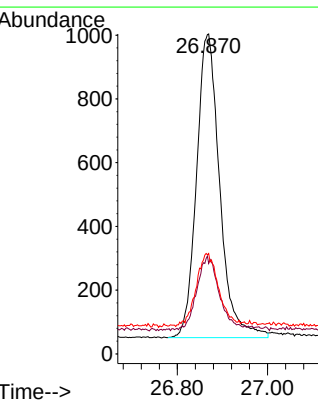
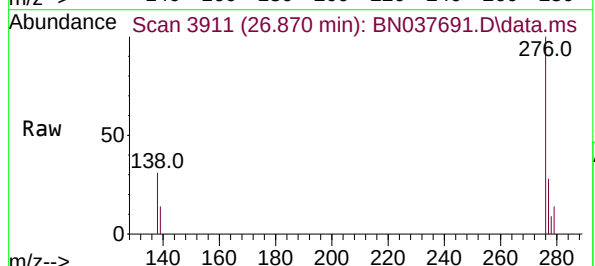
Tgt Ion:276 Resp: 3393

Ion Ratio Lower Upper

276 100

277 28.3 20.6 31.0

138 31.4 20.2 30.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
 Data File : BN037692.D
 Acq On : 11 Sep 2025 10:32
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 09/12/2025
 Supervised By :Jagrut Upadhyay 09/12/2025

Quant Time: Sep 11 14:05:36 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:02:44 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	5547	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	15018	0.400	ng	0.00
13) Acenaphthene-d10	14.494	164	6952	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	12385	0.400	ng	0.00
29) Chrysene-d12	21.420	240	9324	0.400	ng	0.00
35) Perylene-d12	23.753	264	9364	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2533	0.199	ng	0.00
5) Phenol-d6	6.988	99	3308	0.200	ng	0.00
8) Nitrobenzene-d5	8.993	82	2098	0.191	ng	0.00
11) 2-Methylnaphthalene-d10	12.243	152	3732	0.188	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	340	0.188	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	5791	0.199	ng	0.00
27) Fluoranthene-d10	19.271	212	5492	0.177	ng	0.00
31) Terphenyl-d14	19.870	244	3884	0.205	ng	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	3.304	88	1189	0.206	ng	99
3) n-Nitrosodimethylamine	3.608	42	1470	0.195	ng	# 93
6) bis(2-Chloroethyl)ether	7.255	93	2982	0.202	ng	100
9) Naphthalene	10.701	128	8051	0.196	ng	99
10) Hexachlorobutadiene	11.000	225	1472	0.198	ng	# 100
12) 2-Methylnaphthalene	12.314	142	4889	0.193	ng	100
16) Acenaphthylene	14.216	152	6105	0.191	ng	98
17) Acenaphthene	14.559	154	4168	0.193	ng	98
18) Fluorene	15.535	166	4875	0.187	ng	97
20) 4,6-Dinitro-2-methylph...	15.609	198	201	0.175	ng	# 58
21) 4-Bromophenyl-phenylether	16.441	248	1560	0.193	ng	97
22) Hexachlorobenzene	16.553	284	1906	0.205	ng	99
23) Atrazine	16.702	200	932	0.181	ng	96
24) Pentachlorophenol	16.888	266	461	0.171	ng	98
25) Phenanthrene	17.285	178	7526	0.193	ng	98
26) Anthracene	17.372	178	6375	0.185	ng	99
28) Fluoranthene	19.299	202	7577	0.177	ng	100
30) Pyrene	19.661	202	7543	0.207	ng	99
32) Benzo(a)anthracene	21.402	228	6270	0.193	ng	99
33) Chrysene	21.456	228	6953	0.199	ng	98
34) Bis(2-ethylhexyl)phtha...	21.348	149	2049	0.213	ng	# 97
36) Indeno(1,2,3-cd)pyrene	26.142	276	6982	0.177	ng	99
37) Benzo(b)fluoranthene	23.046	252	6907	0.187	ng	# 93
38) Benzo(k)fluoranthene	23.092	252	7226m	0.192	ng	
39) Benzo(a)pyrene	23.651	252	5489	0.186	ng	# 92
40) Dibenzo(a,h)anthracene	26.165	278	5503	0.175	ng	# 90
41) Benzo(g,h,i)perylene	26.864	276	6566	0.186	ng	95

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

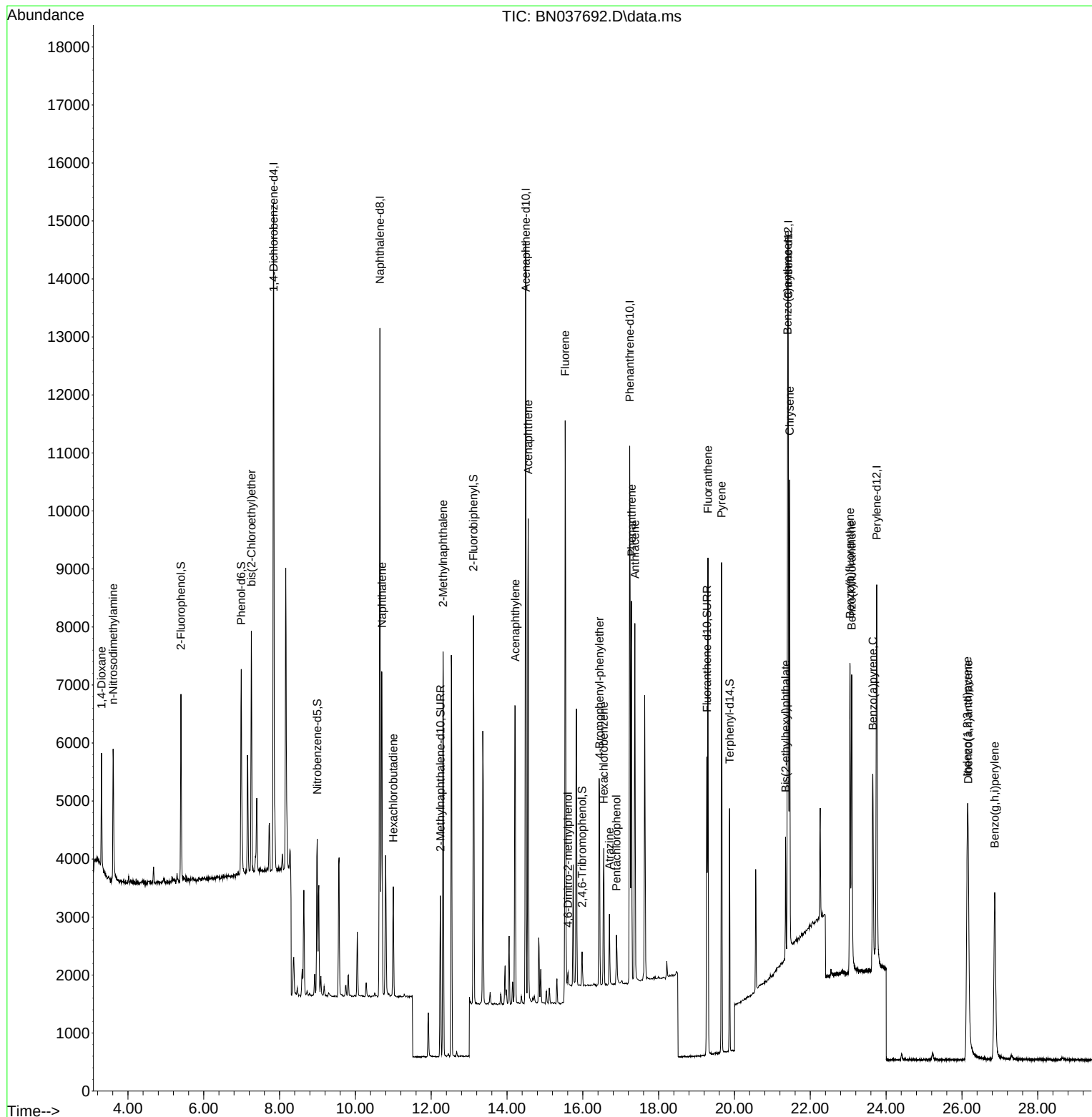
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
 Data File : BN037692.D
 Acq On : 11 Sep 2025 10:32
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

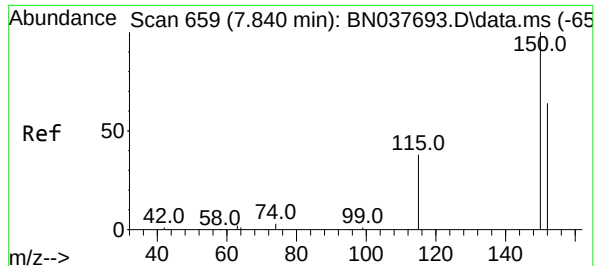
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/12/2025
 Supervised By :Jagrut Upadhyay 09/12/2025

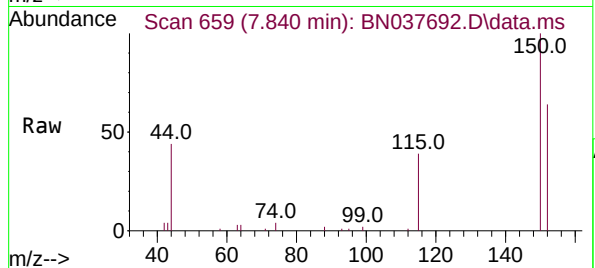
Quant Time: Sep 11 14:05:36 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:02:44 2025
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

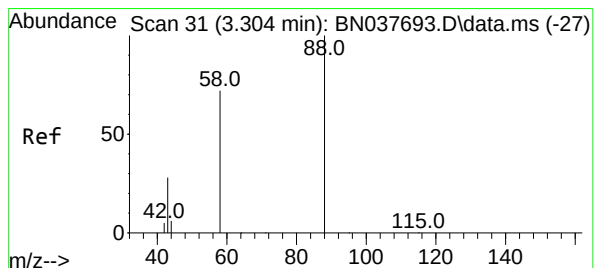
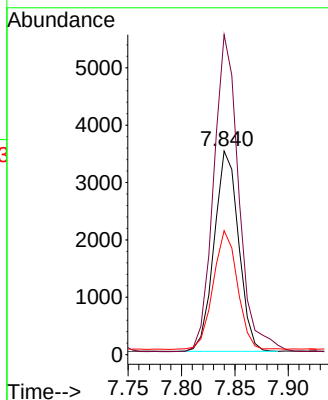
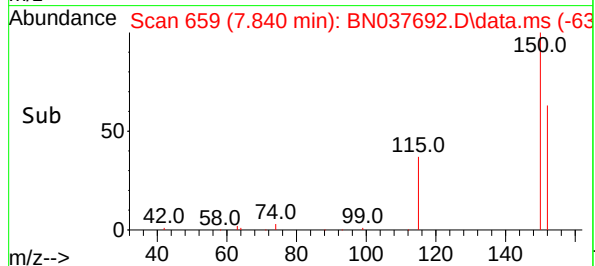
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 152 Resp: 554
Ion Ratio Lower Upper
152 100
150 157.2 124.5 186.7
115 60.9 49.2 73.8

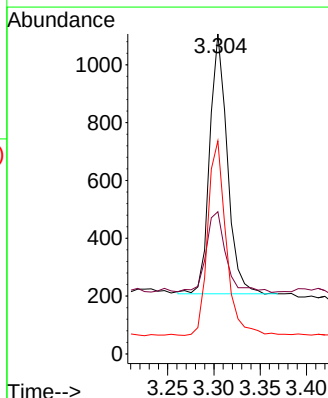
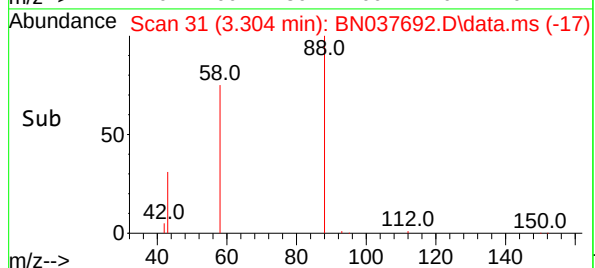
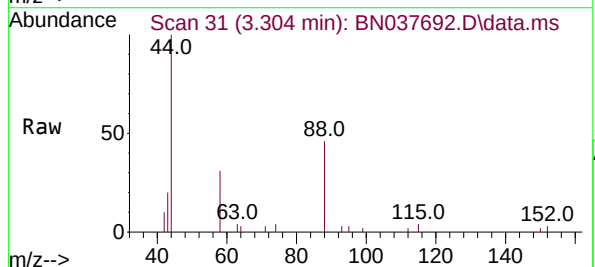
Manual Integrations
APPROVED

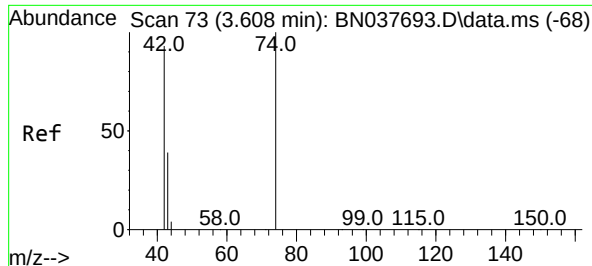
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#2
1,4-Dioxane
Concen: 0.206 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

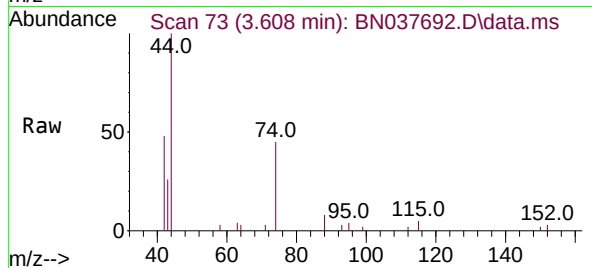
Tgt Ion: 88 Resp: 1189
Ion Ratio Lower Upper
88 100
43 34.1 26.8 40.2
58 78.4 61.9 92.9





#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.608 min Scan# 73
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

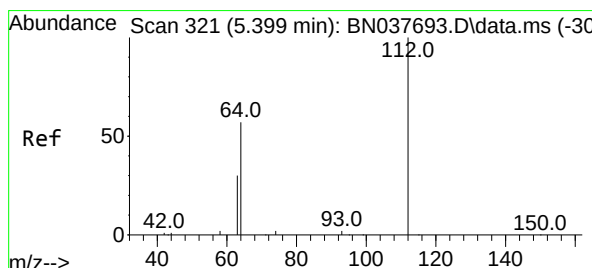
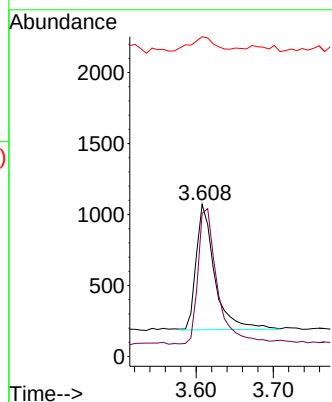
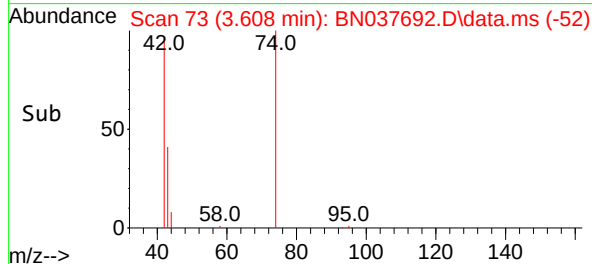
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 42 Resp: 1470
Ion Ratio Lower Upper
42 100
74 113.6 86.0 129.0
44 16.2 8.4 12.6

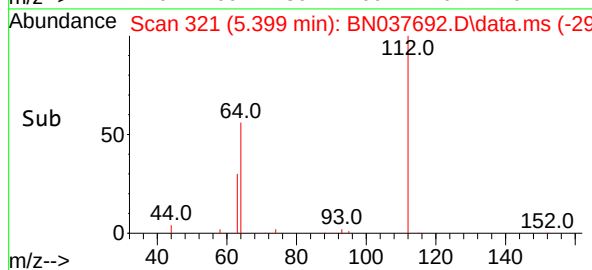
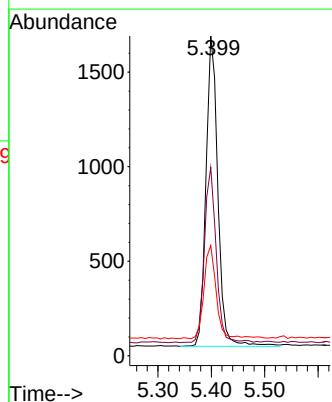
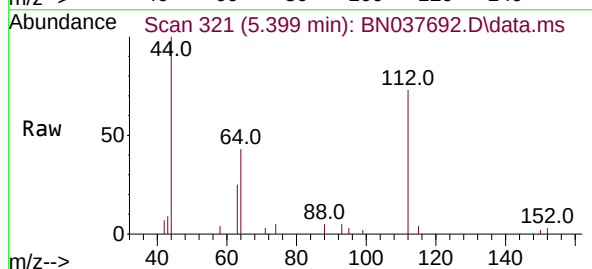
Manual Integrations
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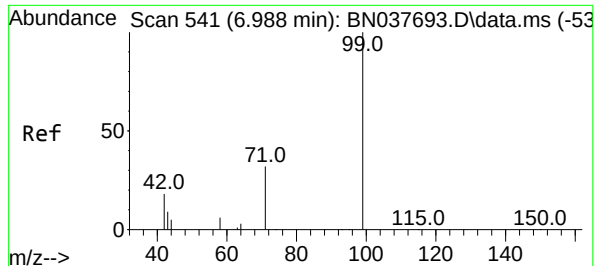
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#4
2-Fluorophenol
Concen: 0.199 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

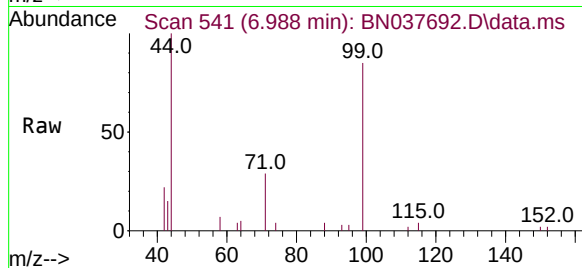
Tgt Ion:112 Resp: 2533
Ion Ratio Lower Upper
112 100
64 55.5 44.9 67.3
63 30.4 24.7 37.1





#5
Phenol-d6
Concen: 0.200 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

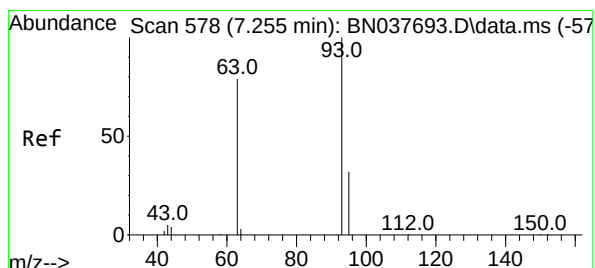
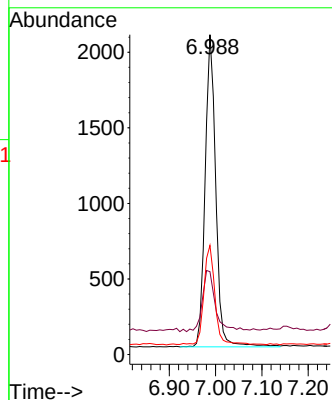
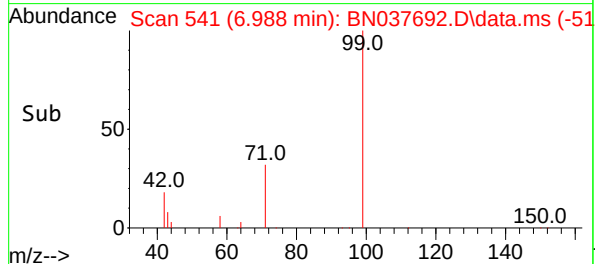
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 99 Resp: 3308
Ion Ratio Lower Upper
99 100
42 24.3 16.6 24.8
71 32.8 26.7 40.1

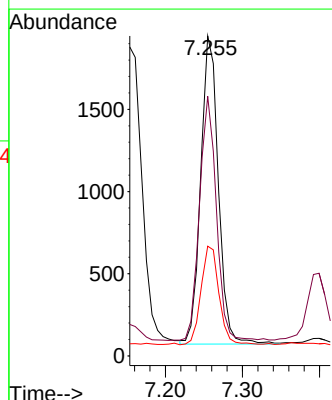
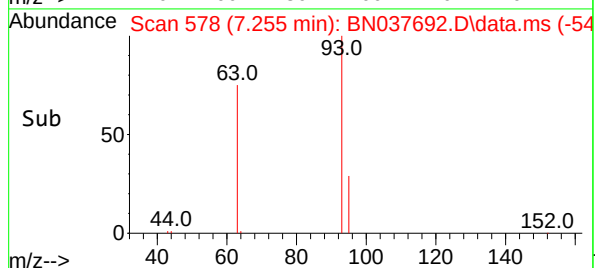
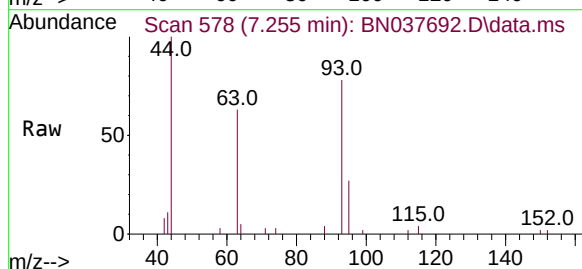
Manual Integrations
APPROVED

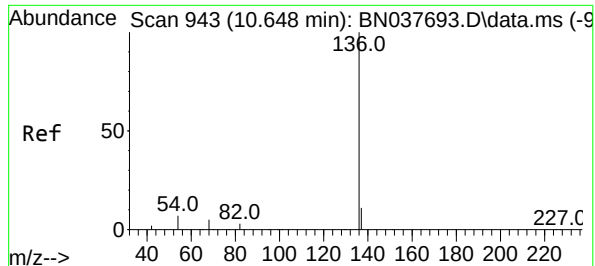
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.202 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion: 93 Resp: 2982
Ion Ratio Lower Upper
93 100
63 75.7 60.6 90.8
95 32.5 26.0 39.0





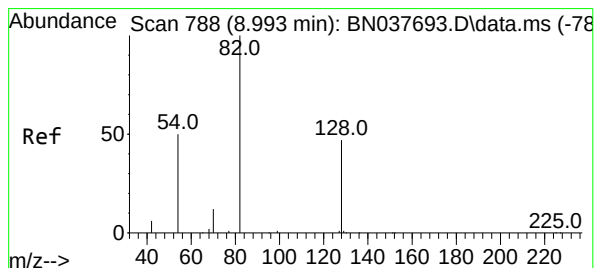
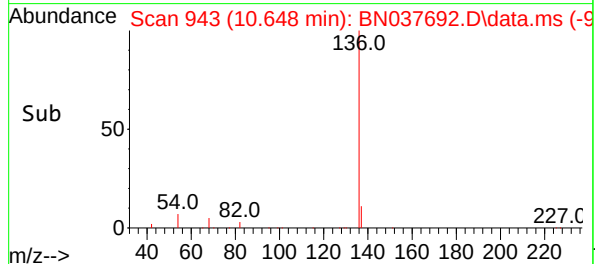
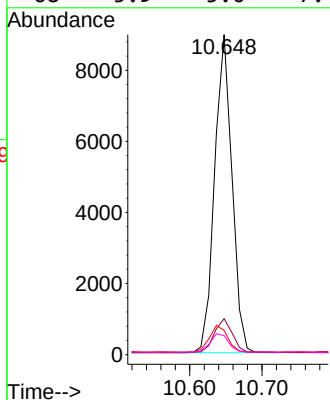
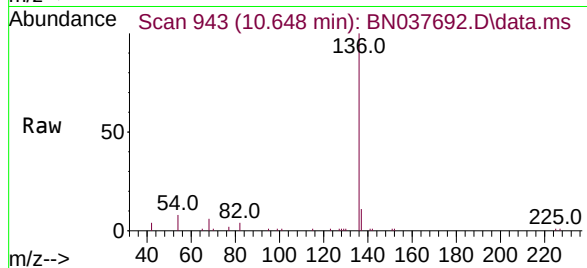
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	7.6	6.3	9.5
68	5.9	5.0	7.4

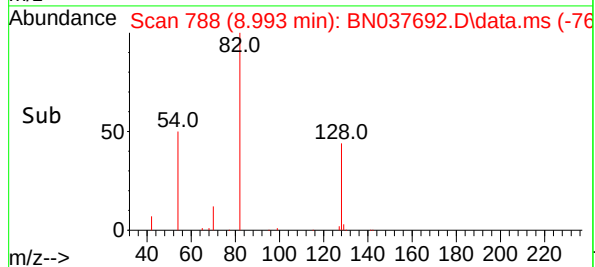
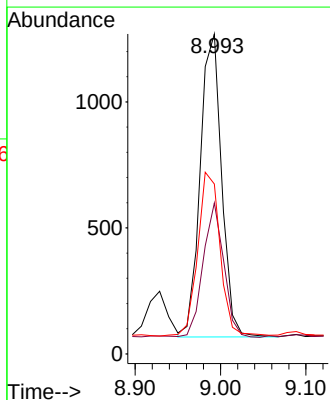
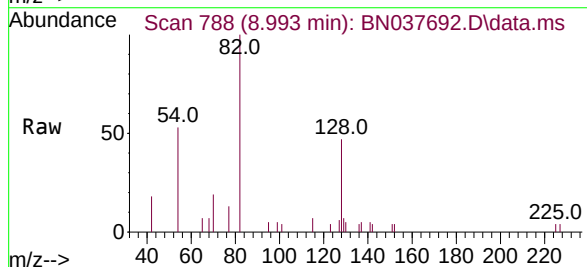
Manual Integrations
APPROVED

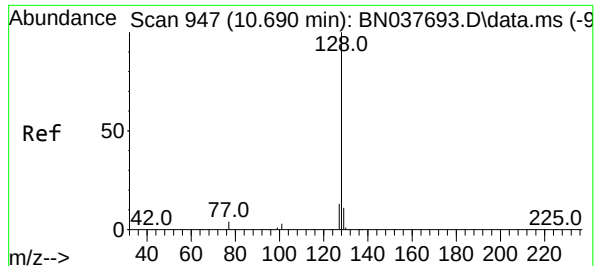
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#8
Nitrobenzene-d5
Concen: 0.191 ng
RT: 8.993 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

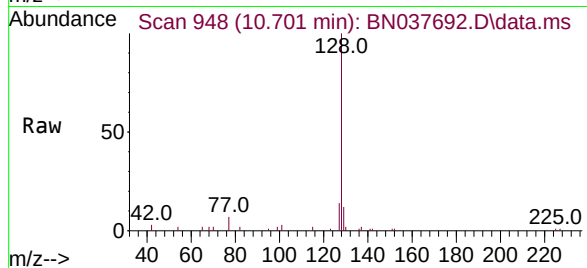
Tgt Ion	Ratio	Lower	Upper
82	100		
128	47.2	38.3	57.5
54	53.1	41.4	62.2





#9
Naphthalene
Concen: 0.196 ng
RT: 10.701 min Scan# 948
Delta R.T. 0.011 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

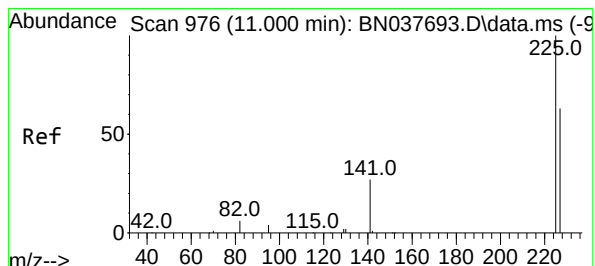
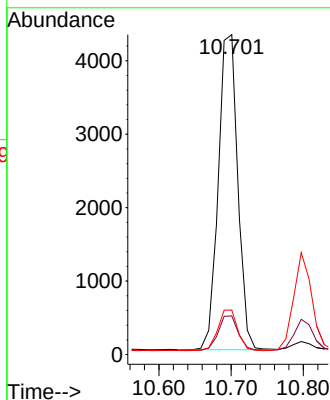
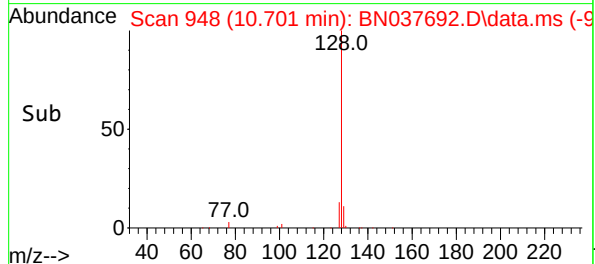
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:128 Resp: 805
Ion Ratio Lower Upper
128 100
129 12.1 9.1 13.7
127 13.9 10.9 16.3

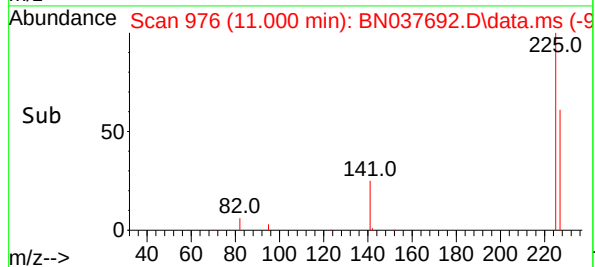
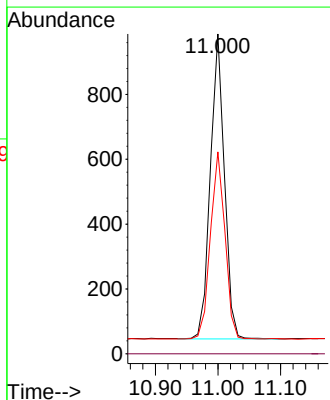
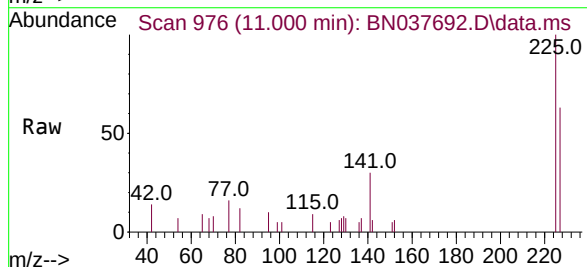
Manual Integrations
APPROVED

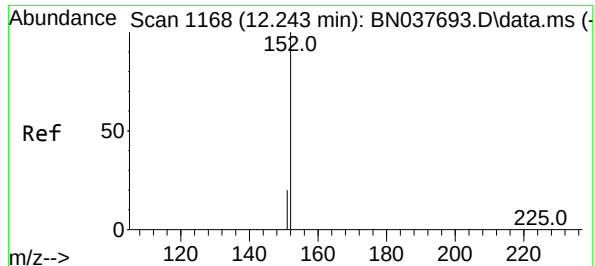
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#10
Hexachlorobutadiene
Concen: 0.198 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

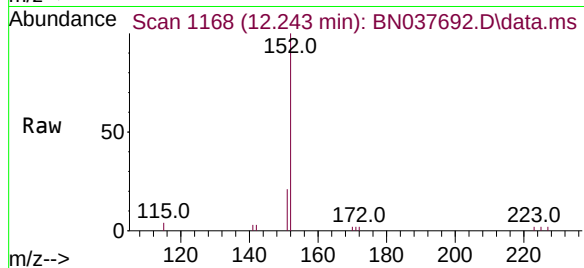
Tgt Ion:225 Resp: 1472
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.2 50.9 76.3





#11
2-Methylnaphthalene-d10
Concen: 0.188 ng
RT: 12.243 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

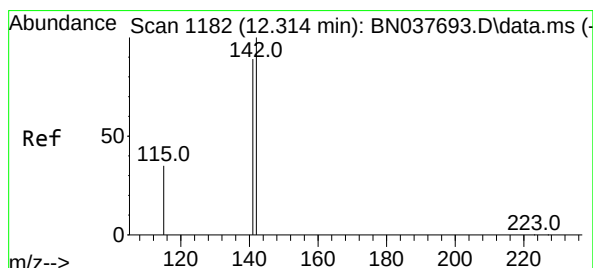
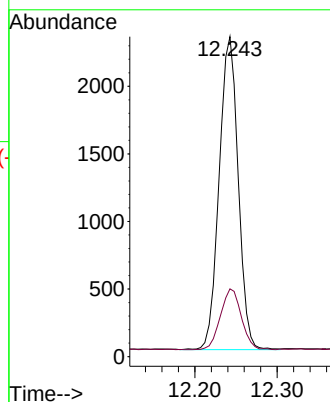
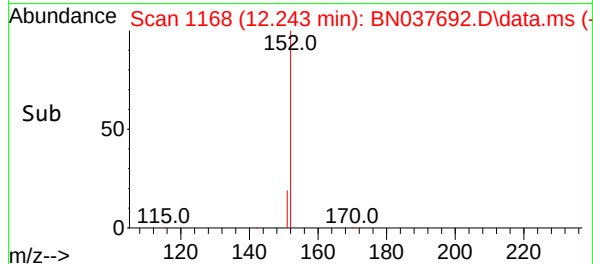
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:152 Resp: 3732
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6

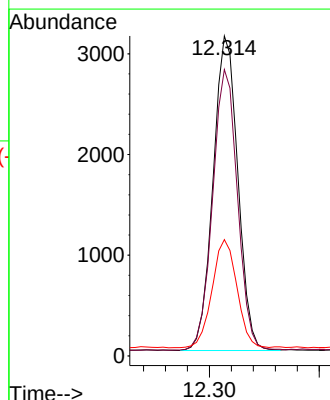
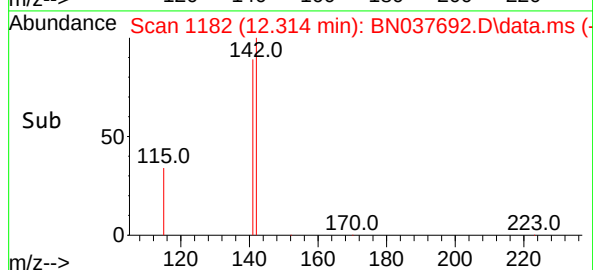
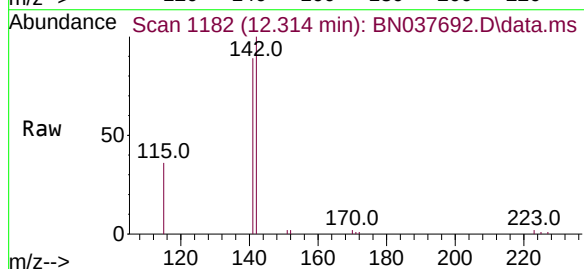
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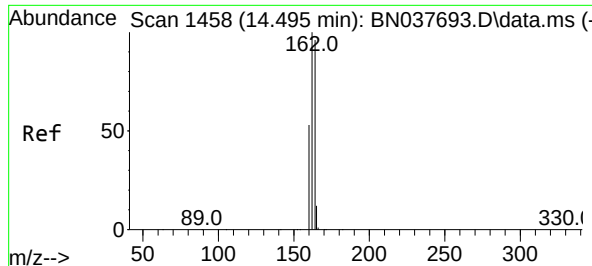
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#12
2-Methylnaphthalene
Concen: 0.193 ng
RT: 12.314 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

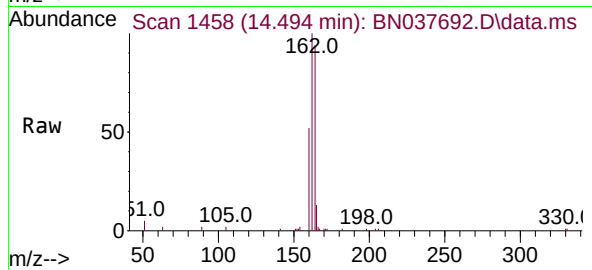
Tgt Ion:142 Resp: 4889
Ion Ratio Lower Upper
142 100
141 89.5 71.6 107.4
115 36.3 28.6 43.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

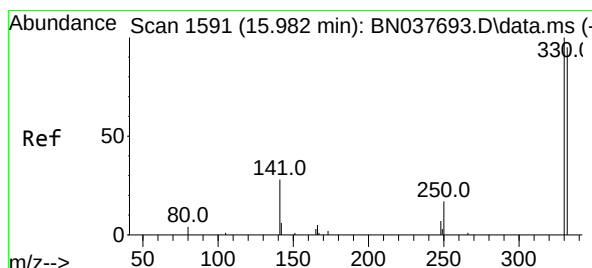
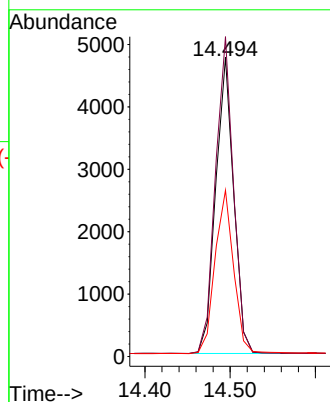
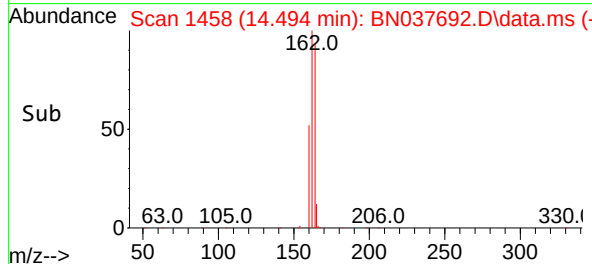
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



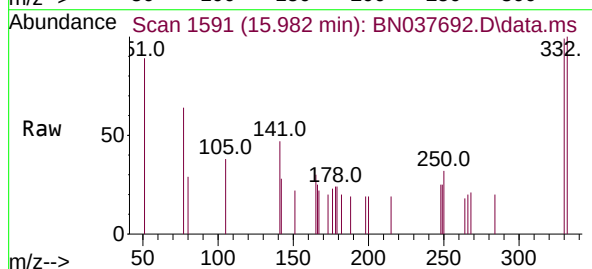
Tgt Ion:164 Resp: 6952
Ion Ratio Lower Upper
164 100
162 106.9 83.1 124.7
160 55.5 44.3 66.5

Manual Integrations
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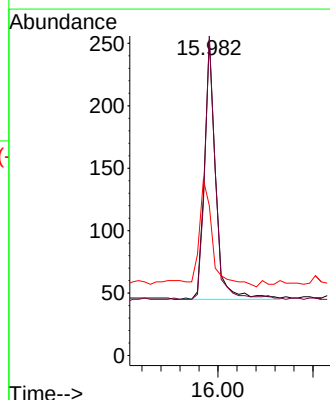
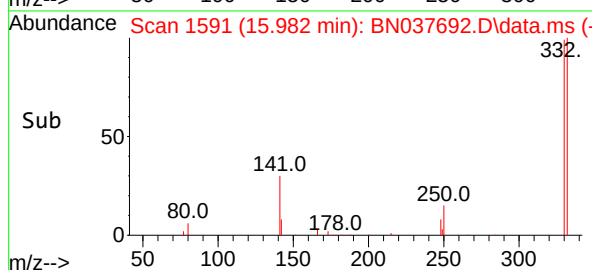
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

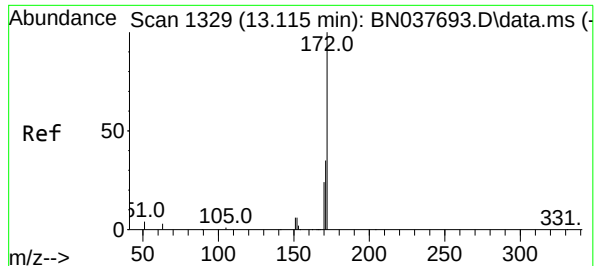


#14
2,4,6-Tribromophenol
Concen: 0.188 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32



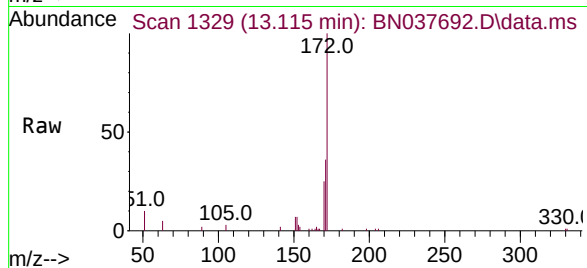
Tgt Ion:330 Resp: 340
Ion Ratio Lower Upper
330 100
332 95.6 75.3 112.9
141 49.4 35.0 52.4





#15
2-Fluorobiphenyl
Concen: 0.199 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

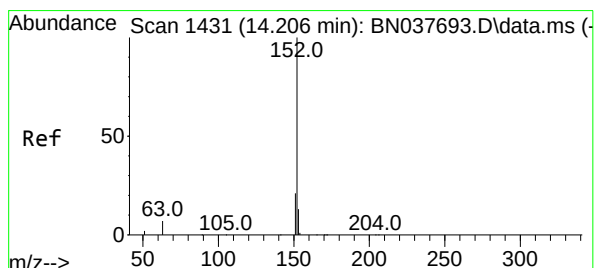
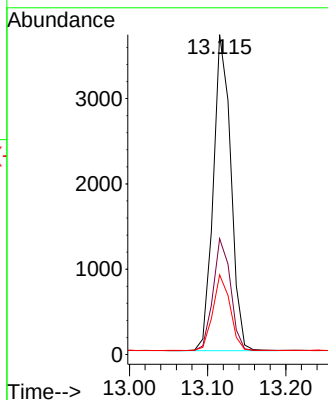
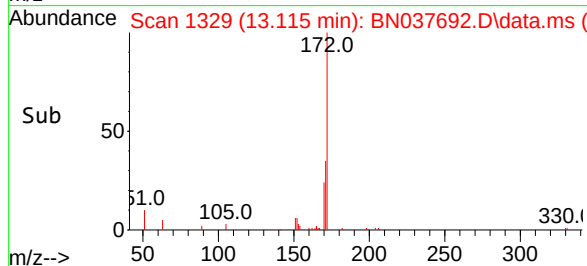
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:172 Resp: 5791
Ion Ratio Lower Upper
172 100
171 36.2 28.6 43.0
170 24.9 19.8 29.8

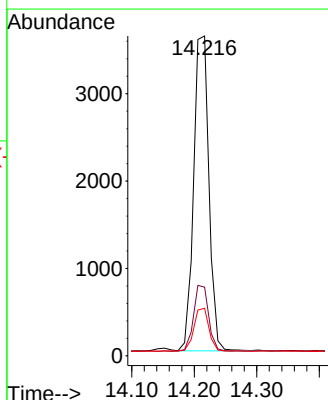
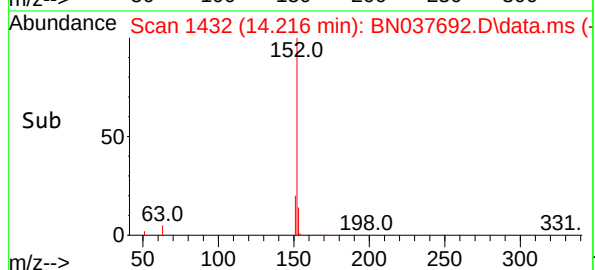
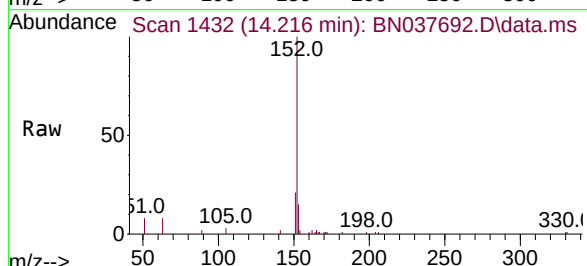
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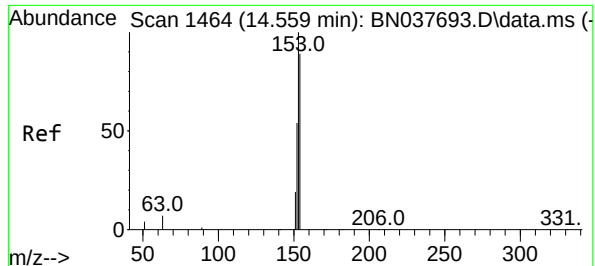
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#16
Acenaphthylene
Concen: 0.191 ng
RT: 14.216 min Scan# 1432
Delta R.T. 0.011 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

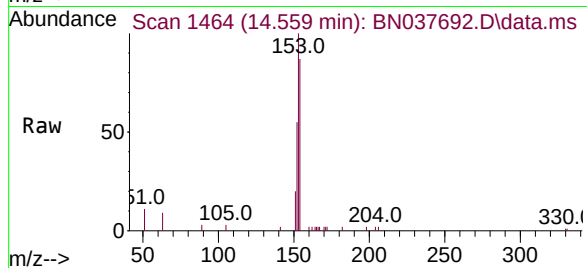
Tgt Ion:152 Resp: 6105
Ion Ratio Lower Upper
152 100
151 20.8 16.2 24.2
153 13.8 10.4 15.6





#17
Acenaphthene
Concen: 0.193 ng
RT: 14.559 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

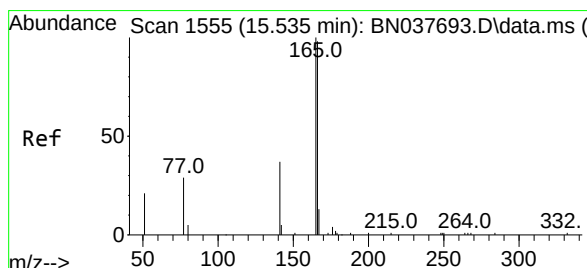
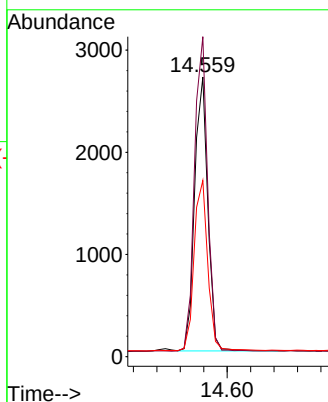
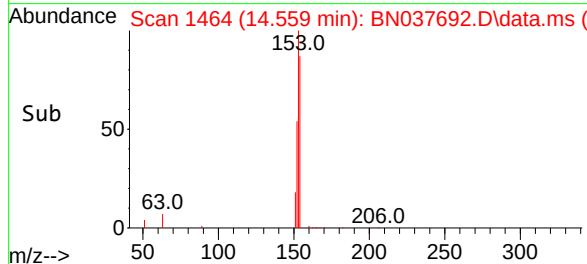
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:154 Resp: 4168
Ion Ratio Lower Upper
154 100
153 114.9 89.8 134.8
152 64.4 50.2 75.2

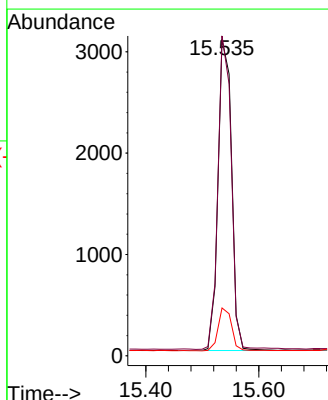
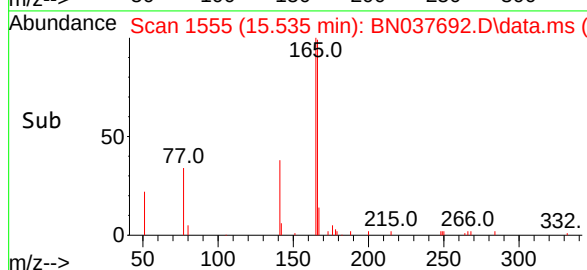
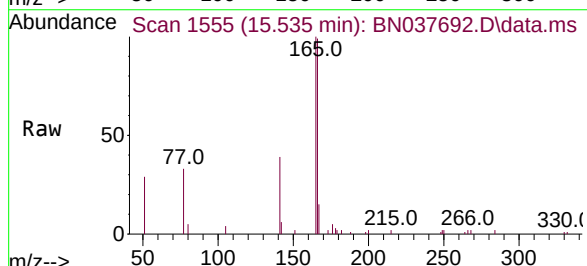
Manual Integrations
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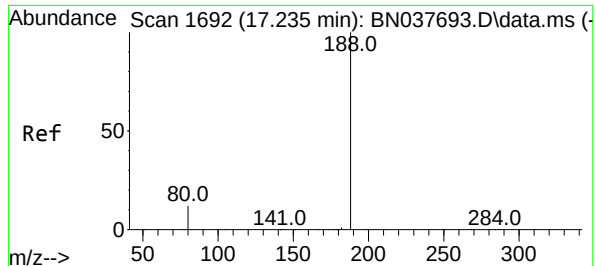
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#18
Fluorene
Concen: 0.187 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:166 Resp: 4875
Ion Ratio Lower Upper
166 100
165 102.3 79.6 119.4
167 14.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:188 Resp: 12385

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

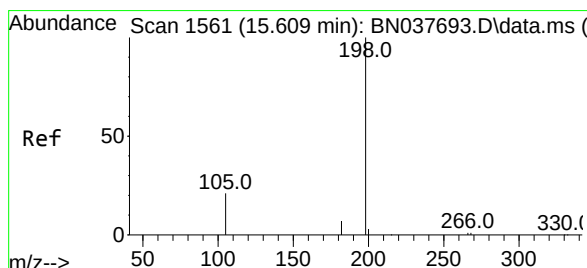
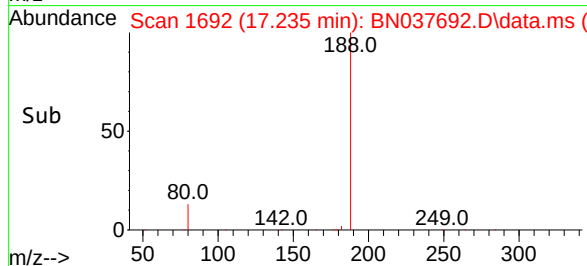
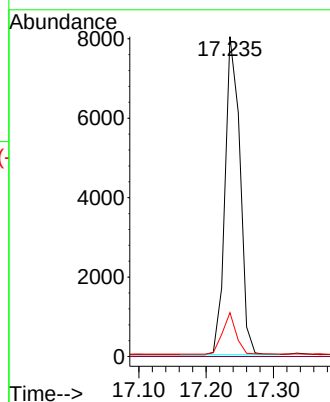
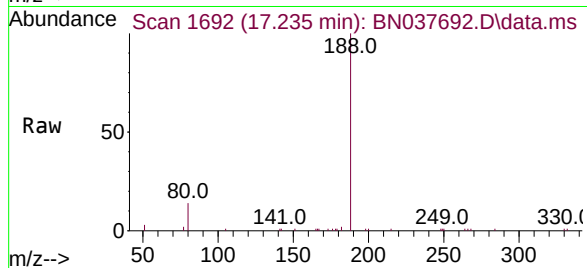
80 13.7 10.6 15.8

Manual Integrations

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Reviewed By :Rahul Chavli 09/12/2025

Supervised By :Jagrut Upadhyay 09/12/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.175 ng

RT: 15.609 min Scan# 1561

Delta R.T. 0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

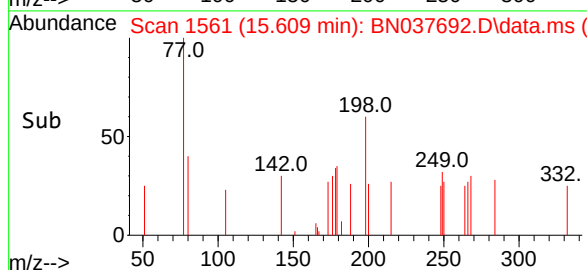
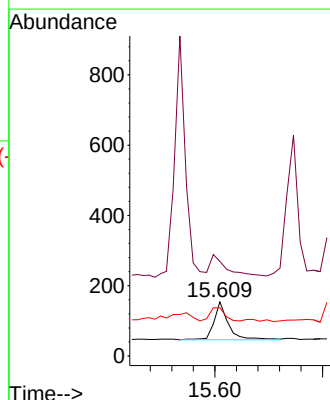
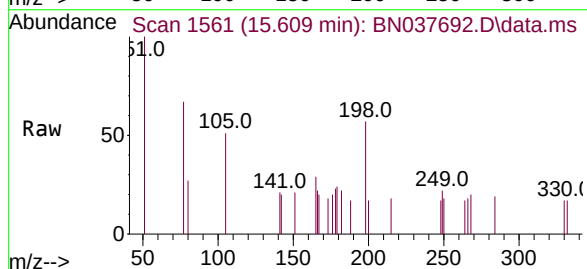
Tgt Ion:198 Resp: 201

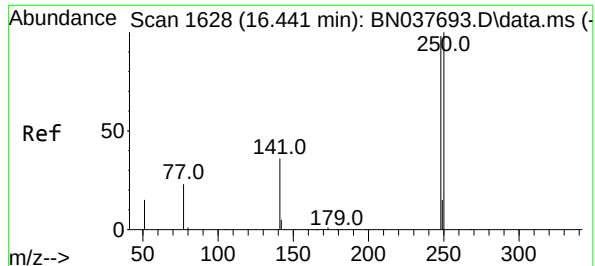
Ion Ratio Lower Upper

198 100

51 174.7 95.1 142.7#

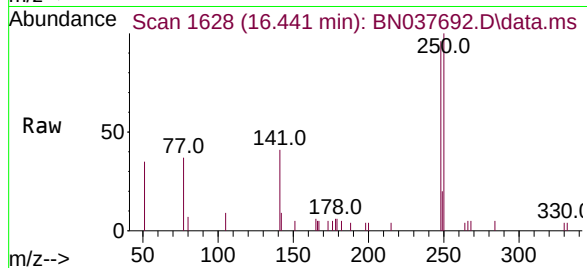
105 89.0 53.8 80.6#





#21
4-Bromophenyl-phenylether
Concen: 0.193 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

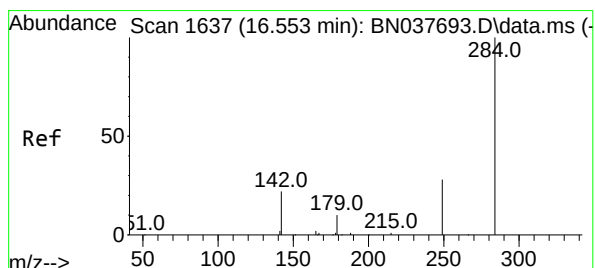
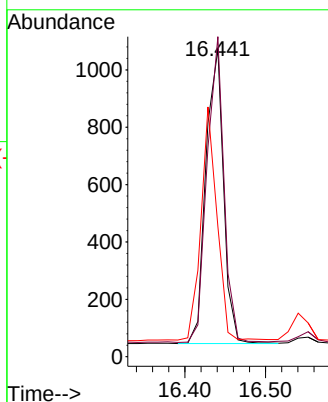
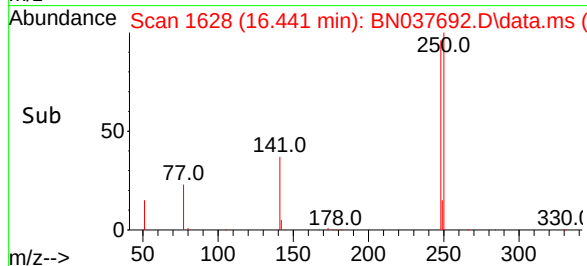
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 248 Resp: 1560
Ion Ratio Lower Upper
248 100
250 104.0 81.5 122.3
141 42.3 30.8 46.2

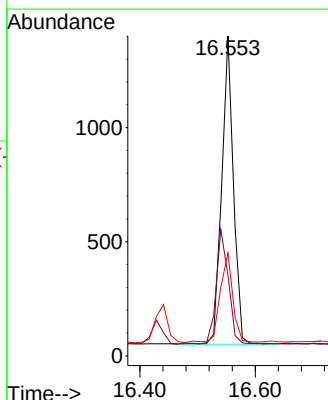
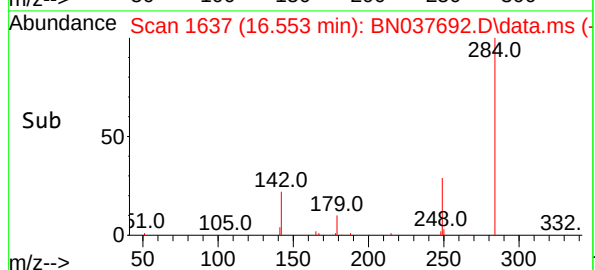
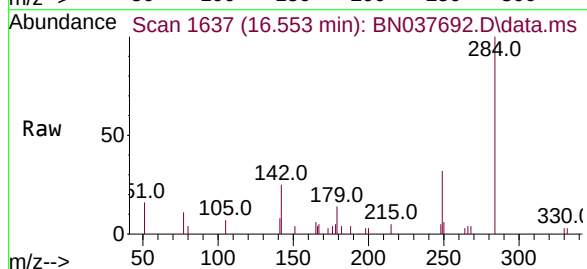
Manual Integrations
APPROVED

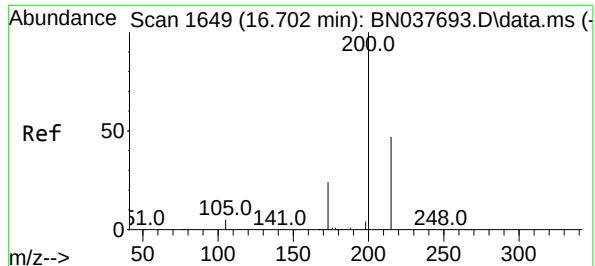
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#22
Hexachlorobenzene
Concen: 0.205 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

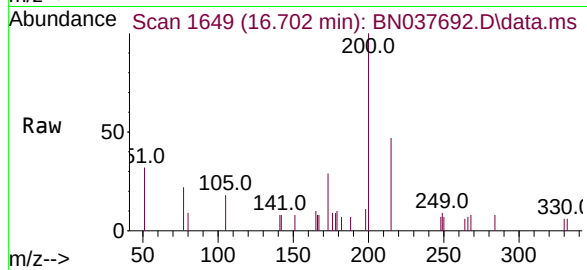
Tgt Ion: 284 Resp: 1906
Ion Ratio Lower Upper
284 100
142 38.4 30.9 46.3
249 31.4 24.8 37.2





#23
Atrazine
Concen: 0.181 ng
RT: 16.702 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

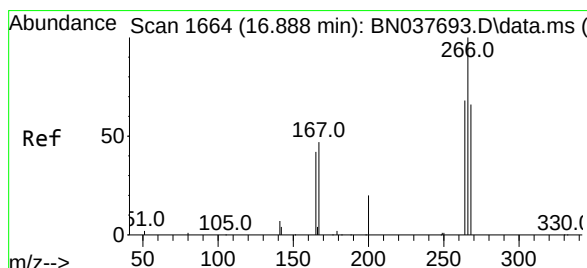
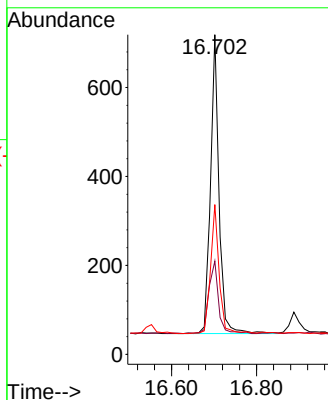
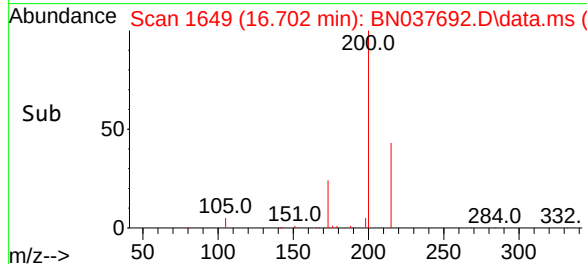
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:200 Resp: 932
Ion Ratio Lower Upper
200 100
173 29.2 21.4 32.2
215 46.9 39.2 58.8

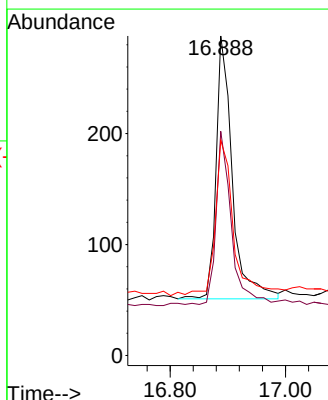
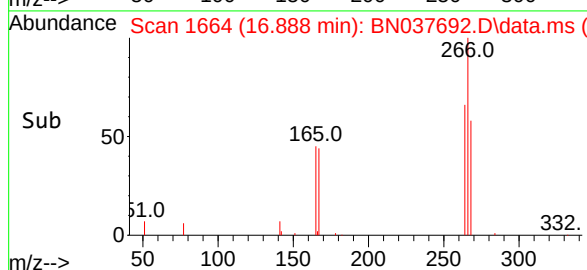
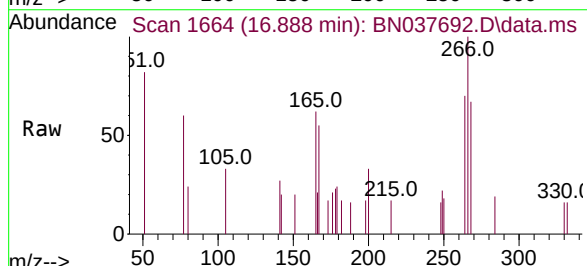
Manual Integrations
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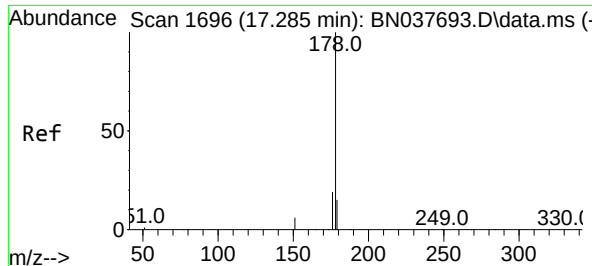
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#24
Pentachlorophenol
Concen: 0.171 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

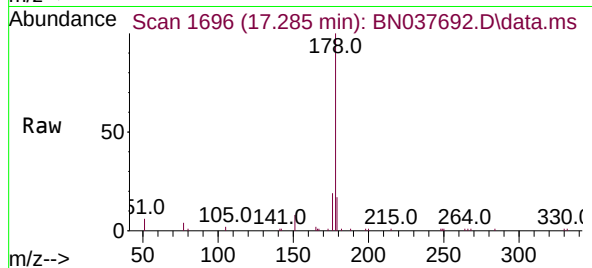
Tgt Ion:266 Resp: 461
Ion Ratio Lower Upper
266 100
264 61.6 51.6 77.4
268 67.5 53.2 79.8





#25
Phenanthrene
Concen: 0.193 ng
RT: 17.285 min Scan# 1696
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

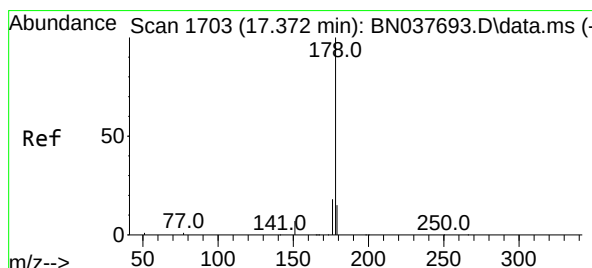
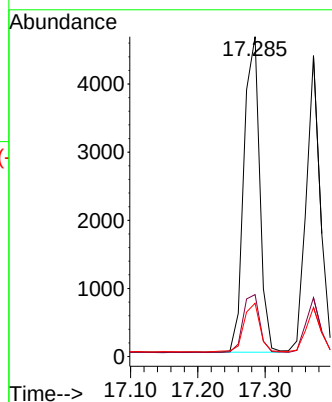
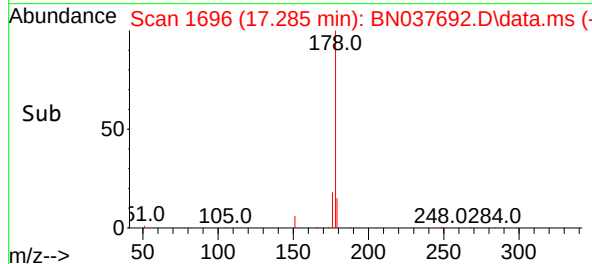
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:178 Resp: 7526
Ion Ratio Lower Upper
178 100
176 19.9 15.3 22.9
179 15.7 12.2 18.2

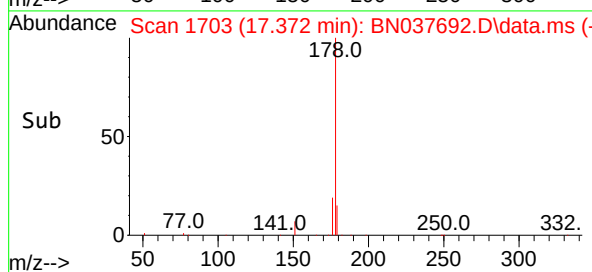
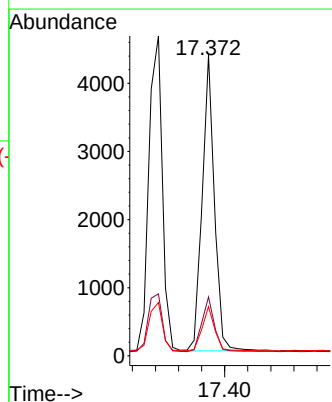
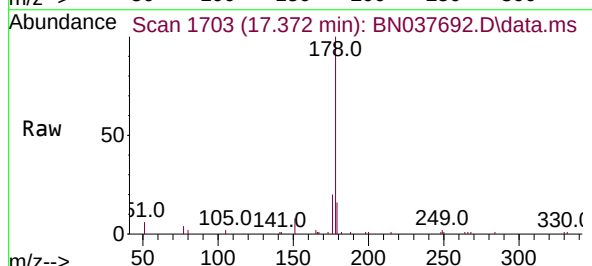
Manual Integrations
APPROVED

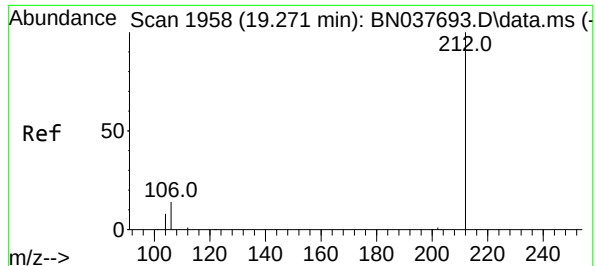
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#26
Anthracene
Concen: 0.185 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

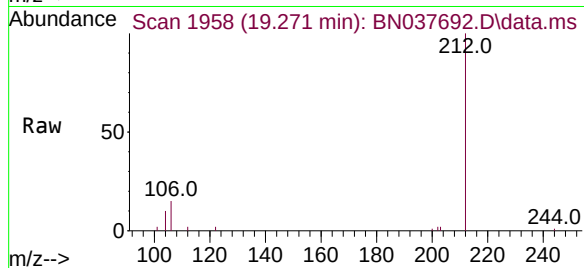
Tgt Ion:178 Resp: 6375
Ion Ratio Lower Upper
178 100
176 19.0 14.6 22.0
179 15.4 12.2 18.4





#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 19.271 min Scan# 1958
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

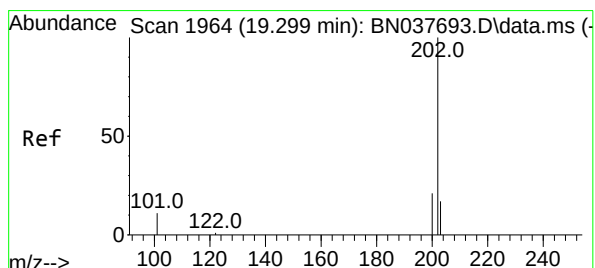
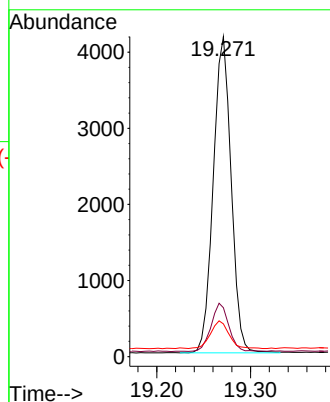
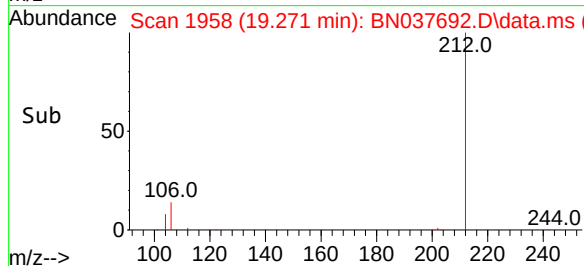
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:212 Resp: 5492
Ion Ratio Lower Upper
212 100
106 15.4 12.2 18.2
104 9.0 6.9 10.3

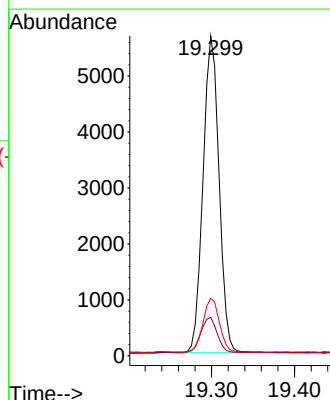
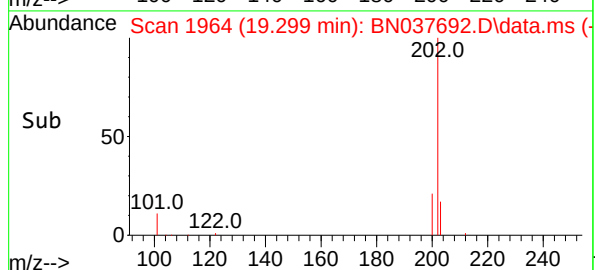
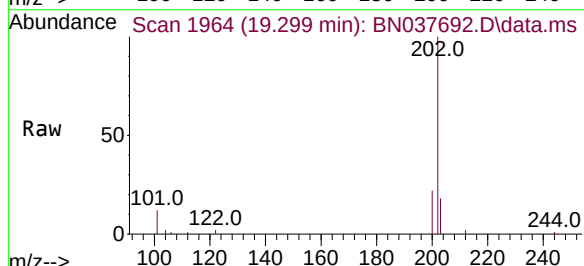
Manual Integrations
APPROVED

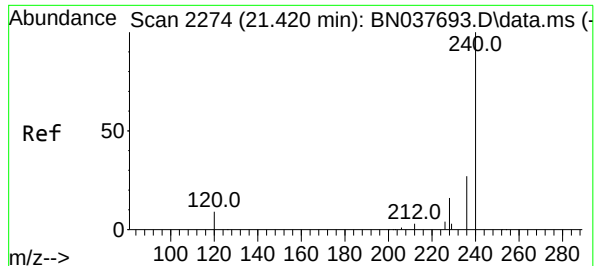
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#28
Fluoranthene
Concen: 0.177 ng
RT: 19.299 min Scan# 1964
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:202 Resp: 7577
Ion Ratio Lower Upper
202 100
101 11.7 9.3 13.9
203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.420 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

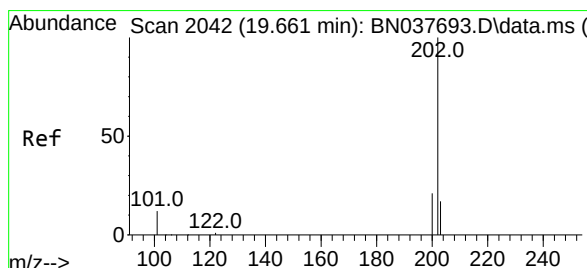
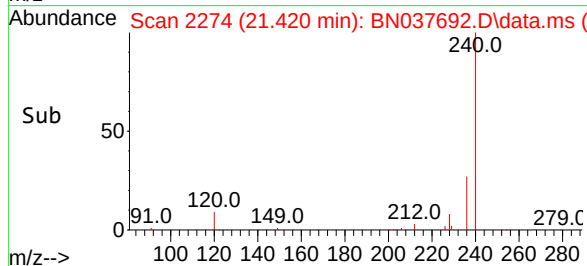
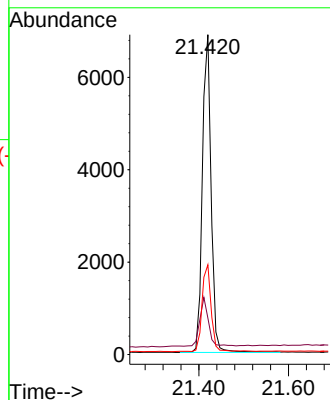
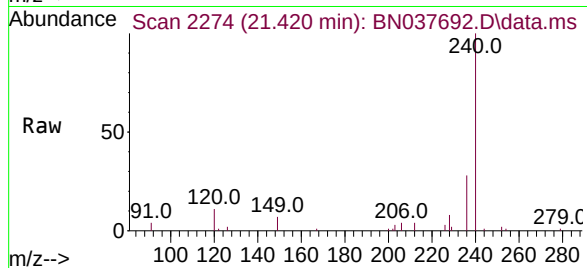
SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.4	9.2	13.8
236	28.1	22.6	33.8

Manual Integrations

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Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#30

Pyrene

Concen: 0.207 ng

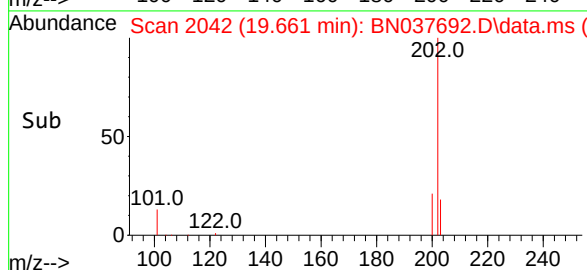
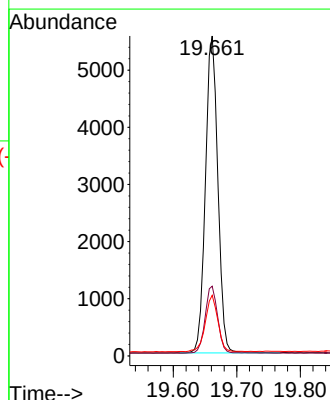
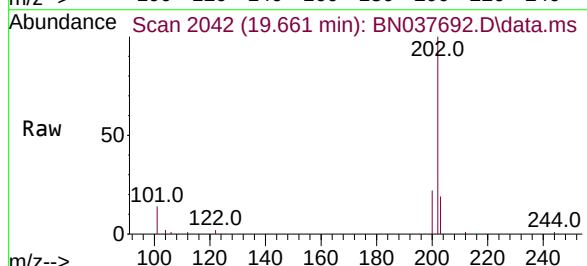
RT: 19.661 min Scan# 2042

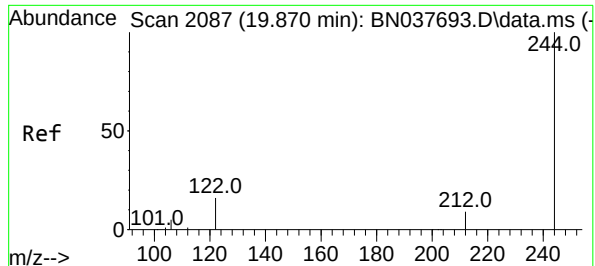
Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	18.3	14.3	21.5





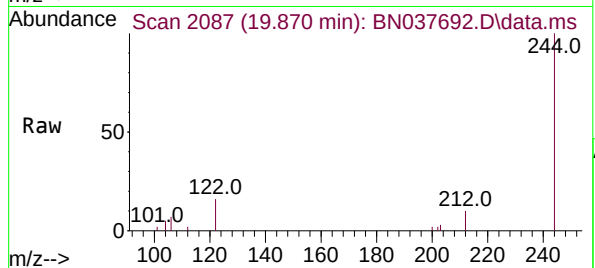
#31
Terphenyl-d14
Concen: 0.205 ng
RT: 19.870 min Scan# 2087
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

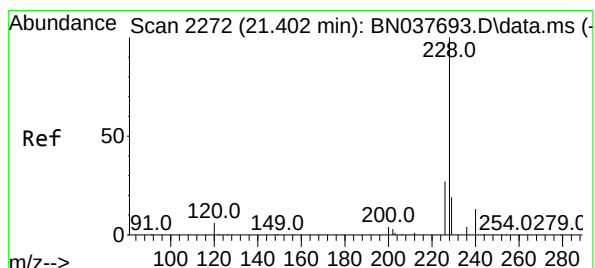
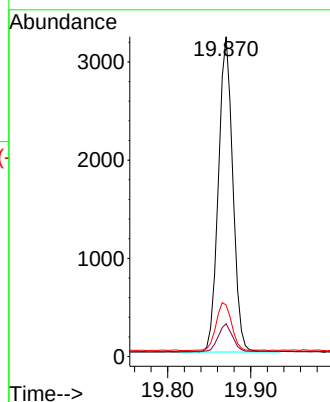
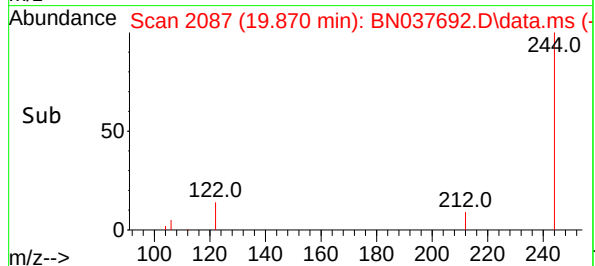


Tgt Ion:244 Resp: 3884
Ion Ratio Lower Upper
244 100
212 10.3 7.5 11.3
122 16.1 13.2 19.8

Manual Integrations

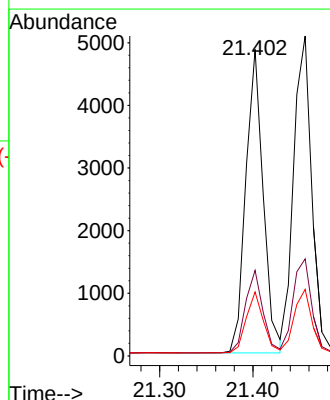
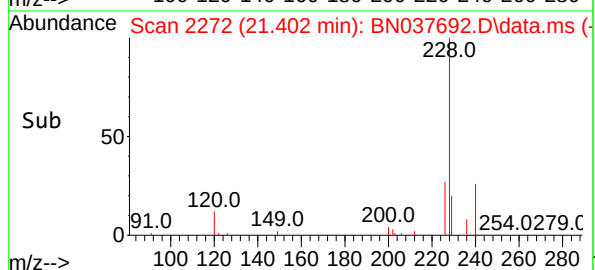
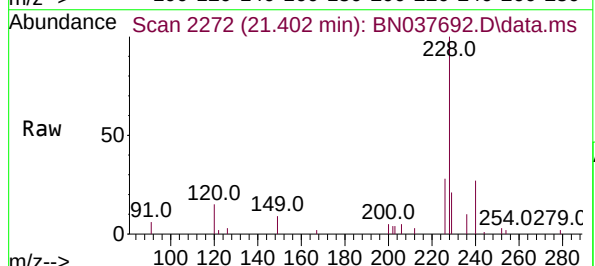
APPROVED

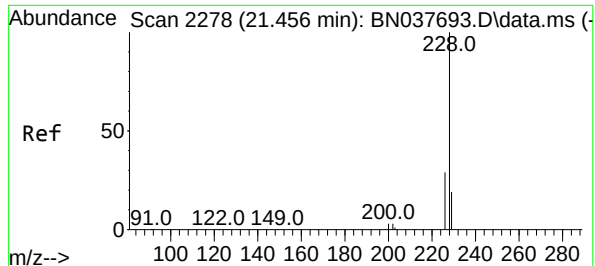
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:228 Resp: 6270
Ion Ratio Lower Upper
228 100
226 27.9 22.2 33.2
229 20.8 15.8 23.6





#33

Chrysene

Concen: 0.199 ng

RT: 21.456 min Scan# 2278

Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:228 Resp: 6953

Ion Ratio Lower Upper

228 100

226 30.3 23.5 35.3

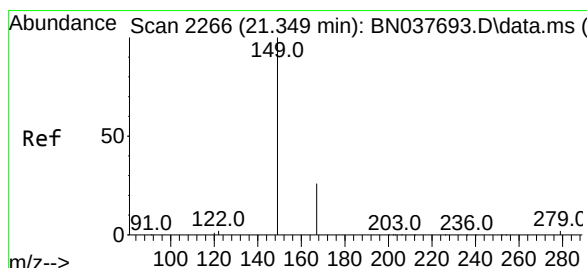
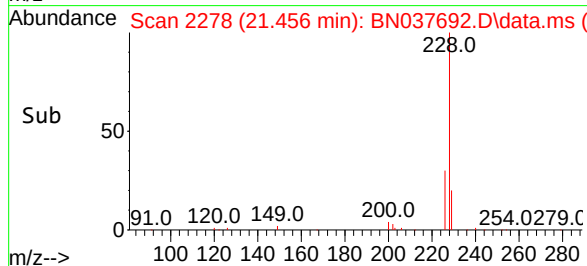
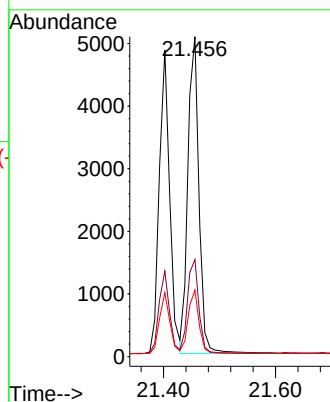
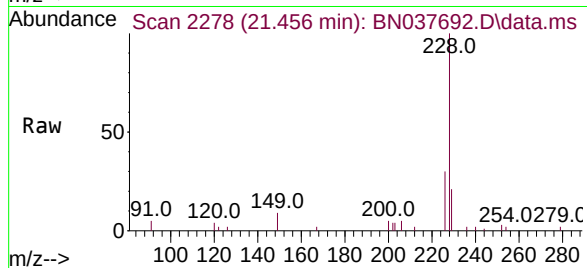
229 20.8 15.9 23.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/12/2025

Supervised By :Jagrut Upadhyay 09/12/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.213 ng

RT: 21.348 min Scan# 2266

Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

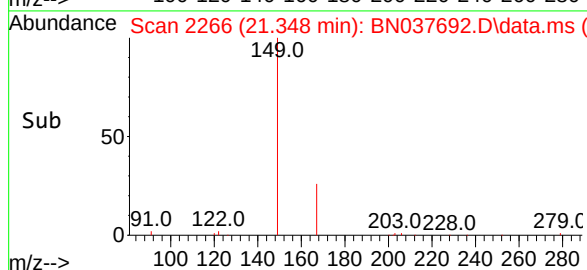
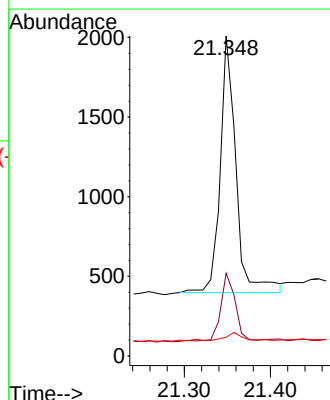
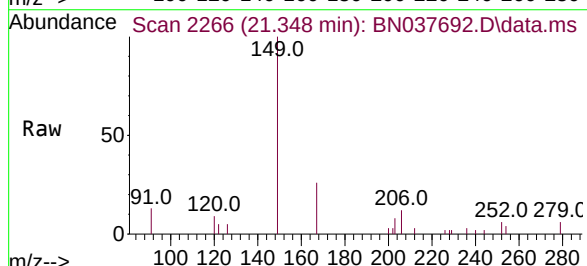
Tgt Ion:149 Resp: 2049

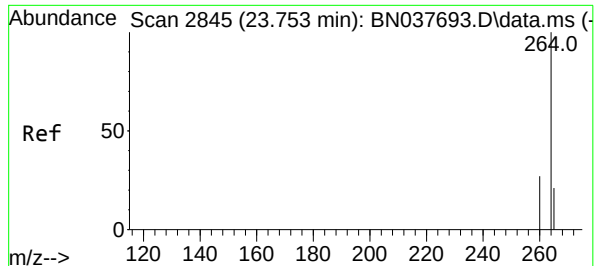
Ion Ratio Lower Upper

149 100

167 24.7 20.8 31.2

279 3.1 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.753 min Scan# 2845

Delta R.T. -0.000 min

Lab File: BN037692.D

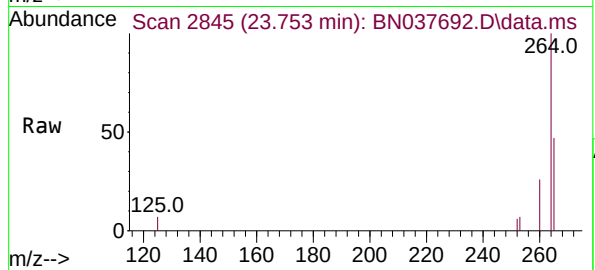
Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:264 Resp: 9364

Ion Ratio Lower Upper

264 100

260 26.0 21.8 32.8

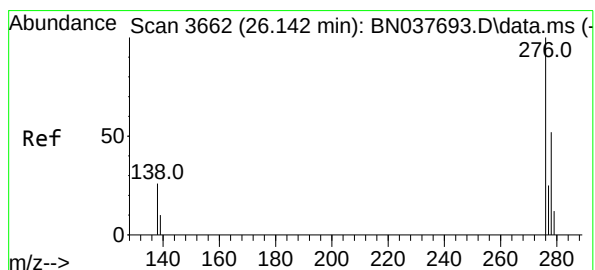
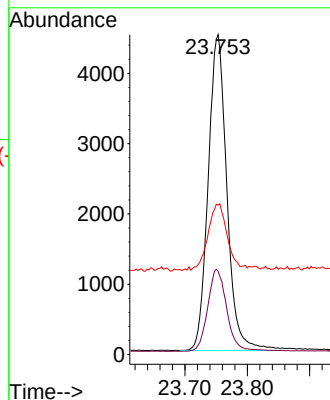
265 46.7 39.4 59.2

Manual Integrations

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Reviewed By :Rahul Chavli 09/12/2025

Supervised By :Jagrut Upadhyay 09/12/2025



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.177 ng

RT: 26.142 min Scan# 3662

Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

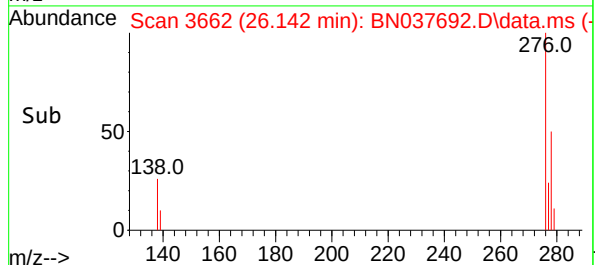
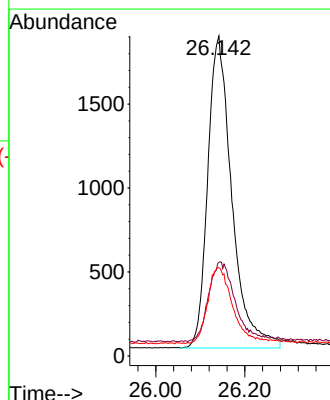
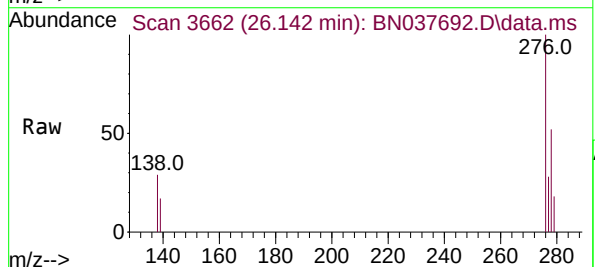
Tgt Ion:276 Resp: 6982

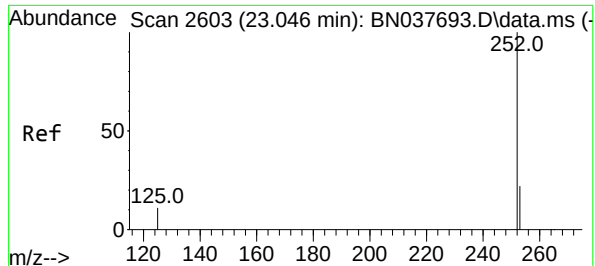
Ion Ratio Lower Upper

276 100

138 28.1 21.9 32.9

277 24.6 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.187 ng

RT: 23.046 min Scan# 2603

Delta R.T. -0.000 min

Lab File: BN037692.D

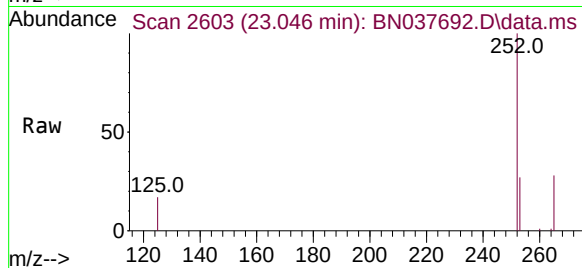
Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



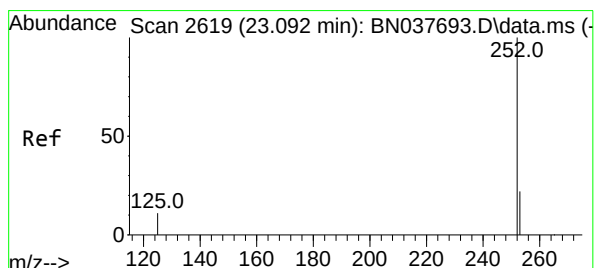
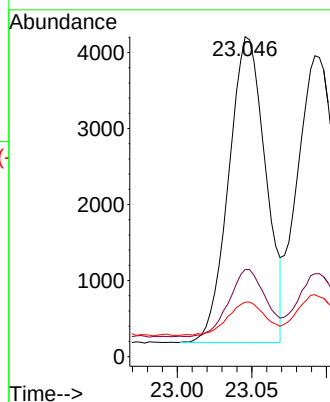
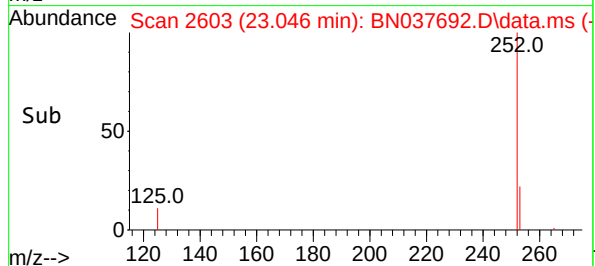
Tgt Ion:	252	Resp:	690
Ion Ratio	Lower	Upper	
252	100		
253	27.3	19.4	29.2
125	17.0	11.2	16.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/12/2025

Supervised By :Jagrut Upadhyay 09/12/2025



#38

Benzo(k)fluoranthene

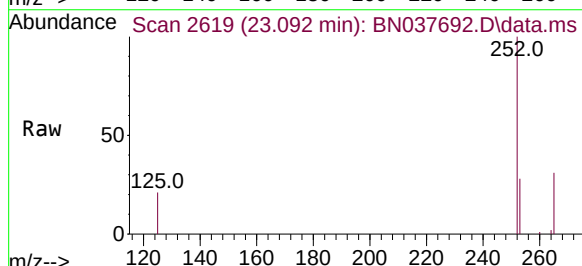
Concen: 0.192 ng m

RT: 23.092 min Scan# 2619

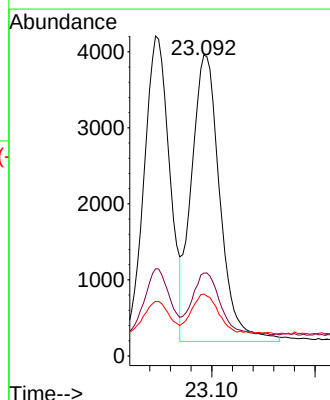
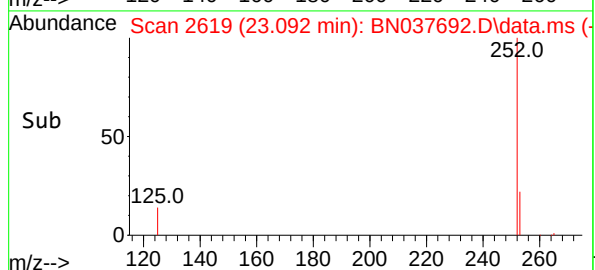
Delta R.T. -0.000 min

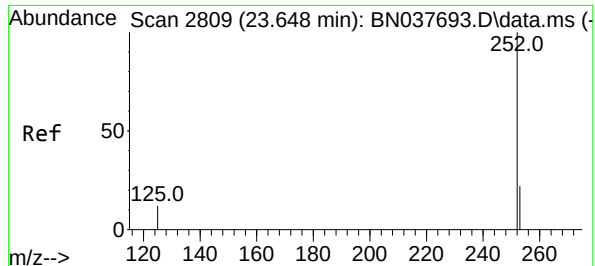
Lab File: BN037692.D

Acq: 11 Sep 2025 10:32



Tgt Ion:	252	Resp:	7226
Ion Ratio	Lower	Upper	
252	100		
253	27.5	19.4	29.0
125	20.6	11.6	17.4





#39

Benzo(a)pyrene

Concen: 0.186 ng

RT: 23.651 min Scan# 2809

Delta R.T. 0.003 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

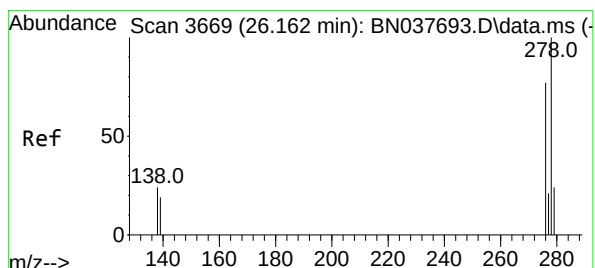
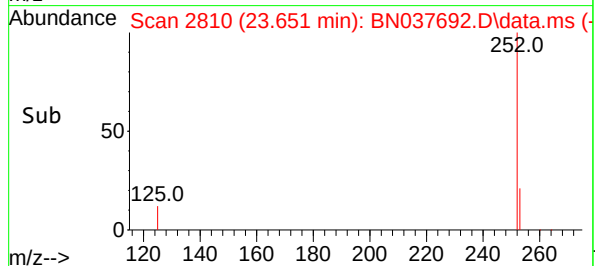
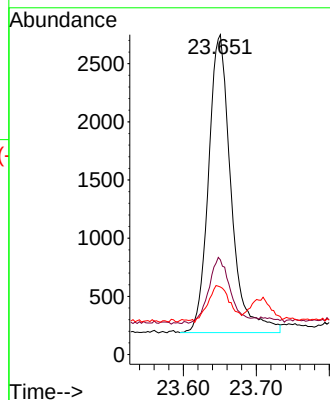
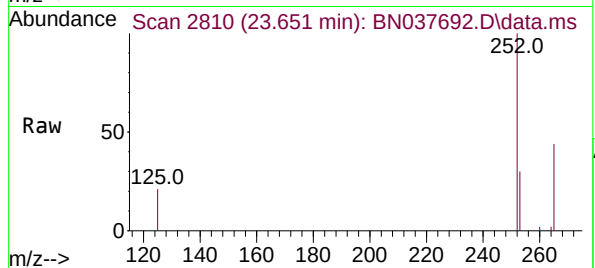
Tgt Ion:	252	Resp:	5489
Ion Ratio	Lower	Upper	
252	100		
253	29.6	20.8	31.2
125	21.1	13.9	20.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/12/2025

Supervised By :Jagrut Upadhyay 09/12/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.175 ng

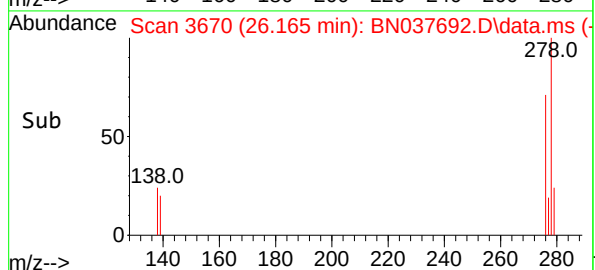
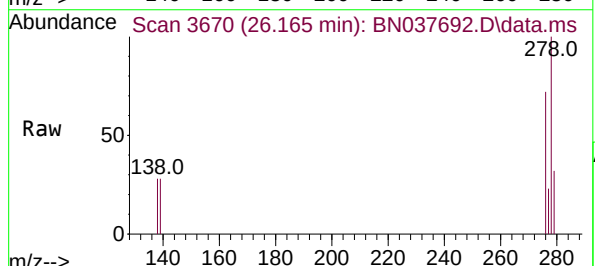
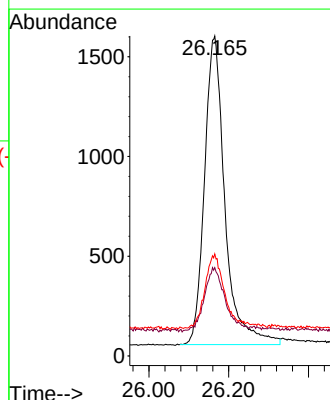
RT: 26.165 min Scan# 3670

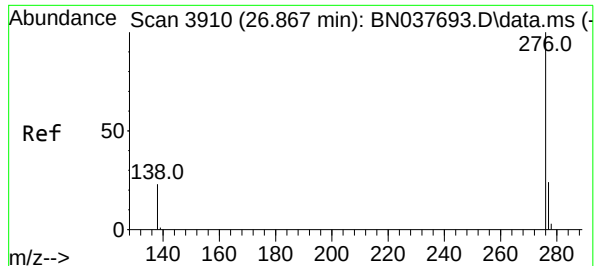
Delta R.T. 0.003 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Tgt Ion:	278	Resp:	5503
Ion Ratio	Lower	Upper	
278	100		
139	27.6	17.8	26.6
279	31.9	22.0	33.0





#41

Benzo(g,h,i)perylene

Concen: 0.186 ng

RT: 26.864 min Scan# 39

Delta R.T. -0.003 min

Lab File: BN037692.D

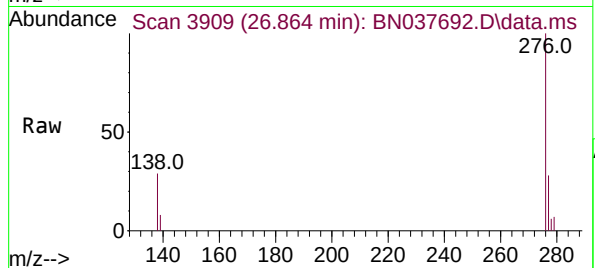
Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:276 Resp: 6566

Ion Ratio Lower Upper

276 100

277 27.6 20.6 31.0

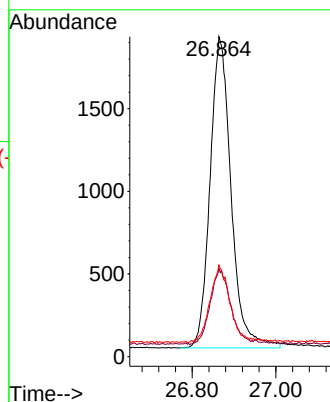
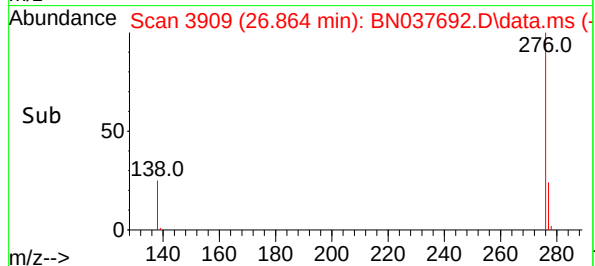
138 28.6 20.2 30.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/12/2025

Supervised By :Jagrut Upadhyay 09/12/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
 Data File : BN037693.D
 Acq On : 11 Sep 2025 11:08
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Sep 11 14:06:04 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:02:44 2025
 Response via : Initial Calibration

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

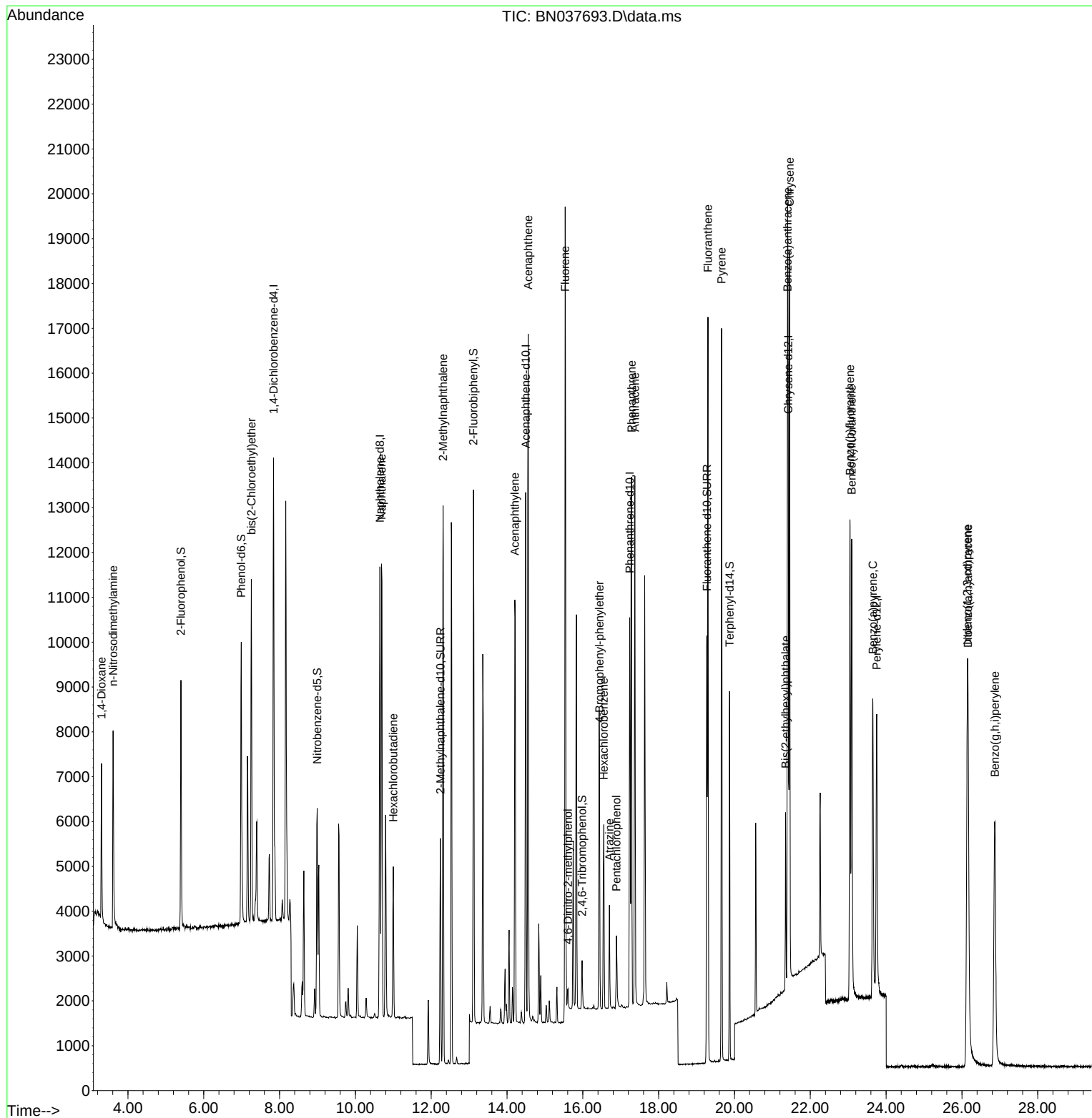
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	4992	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	13249	0.400	ng	0.00
13) Acenaphthene-d10	14.495	164	6204	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	11263	0.400	ng	0.00
29) Chrysene-d12	21.420	240	9368	0.400	ng	0.00
35) Perylene-d12	23.753	264	8965	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	4452	0.388	ng	0.00
5) Phenol-d6	6.988	99	5771	0.388	ng	0.00
8) Nitrobenzene-d5	8.993	82	3770	0.389	ng	0.00
11) 2-Methylnaphthalene-d10	12.243	152	6602	0.376	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	625	0.386	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	10228	0.394	ng	0.00
27) Fluoranthene-d10	19.271	212	10530	0.372	ng	0.00
31) Terphenyl-d14	19.870	244	7507	0.395	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.304	88	2106	0.405	ng	100
3) n-Nitrosodimethylamine	3.608	42	2814	0.414	ng	99
6) bis(2-Chloroethyl)ether	7.255	93	5343	0.402	ng	100
9) Naphthalene	10.690	128	14229	0.393	ng	100
10) Hexachlorobutadiene	11.000	225	2615	0.399	ng	# 100
12) 2-Methylnaphthalene	12.314	142	8728	0.390	ng	100
16) Acenaphthylene	14.206	152	11064	0.389	ng	100
17) Acenaphthene	14.559	154	7540	0.392	ng	100
18) Fluorene	15.535	166	8938	0.384	ng	100
20) 4,6-Dinitro-2-methylph...	15.609	198	372	0.357	ng	100
21) 4-Bromophenyl-phenylether	16.441	248	2827	0.385	ng	100
22) Hexachlorobenzene	16.553	284	3312	0.392	ng	100
23) Atrazine	16.702	200	1707	0.365	ng	100
24) Pentachlorophenol	16.888	266	839	0.342	ng	100
25) Phenanthrene	17.285	178	13778	0.389	ng	100
26) Anthracene	17.372	178	12049	0.384	ng	100
28) Fluoranthene	19.299	202	14751	0.379	ng	100
30) Pyrene	19.661	202	14587	0.398	ng	100
32) Benzo(a)anthracene	21.402	228	12621	0.386	ng	100
33) Chrysene	21.456	228	14018	0.400	ng	100
34) Bis(2-ethylhexyl)phtha...	21.349	149	3520	0.363	ng	100
36) Indeno(1,2,3-cd)pyrene	26.142	276	13835	0.367	ng	100
37) Benzo(b)fluoranthene	23.046	252	13935	0.395	ng	100
38) Benzo(k)fluoranthene	23.092	252	13659	0.379	ng	100
39) Benzo(a)pyrene	23.648	252	10766	0.381	ng	100
40) Dibenzo(a,h)anthracene	26.162	278	10852	0.361	ng	100
41) Benzo(g,h,i)perylene	26.867	276	13009	0.385	ng	100

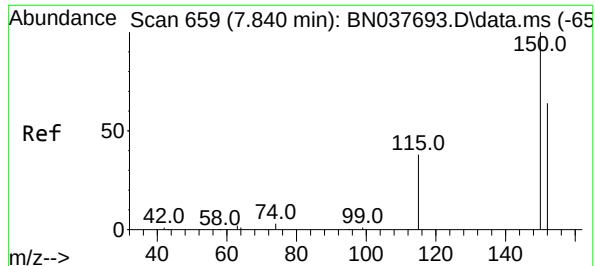
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
 Data File : BN037693.D
 Acq On : 11 Sep 2025 11:08
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Sep 11 14:06:04 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:02:44 2025
 Response via : Initial Calibration

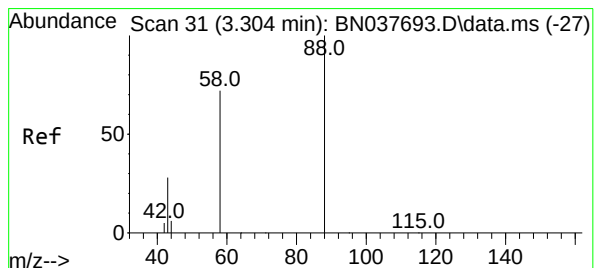
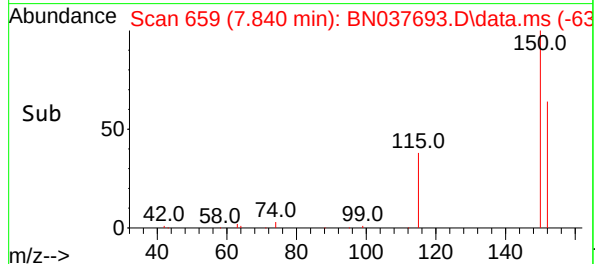
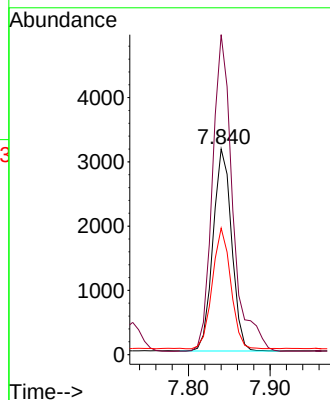
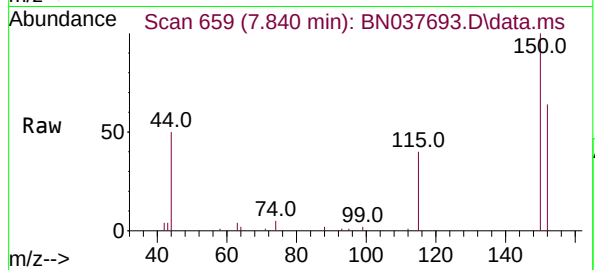




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

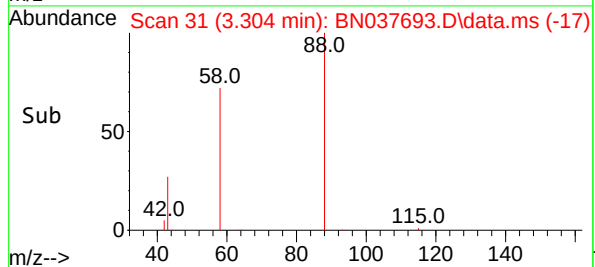
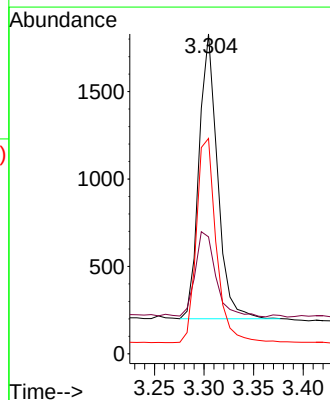
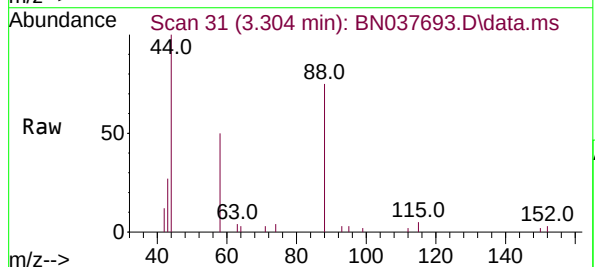
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

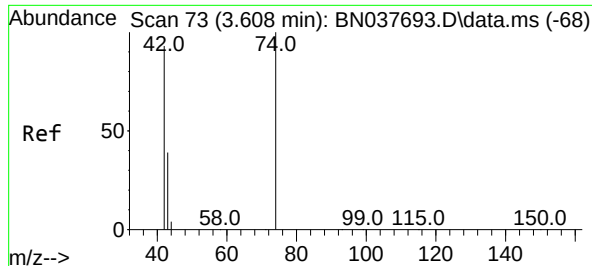
Tgt Ion:152 Resp: 4992
Ion Ratio Lower Upper
152 100
150 155.6 124.5 186.7
115 61.5 49.2 73.8



#2
1,4-Dioxane
Concen: 0.405 ng
RT: 3.304 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion: 88 Resp: 2106
Ion Ratio Lower Upper
88 100
43 33.5 26.8 40.2
58 77.6 61.9 92.9

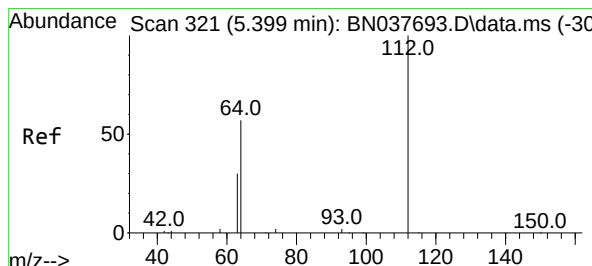
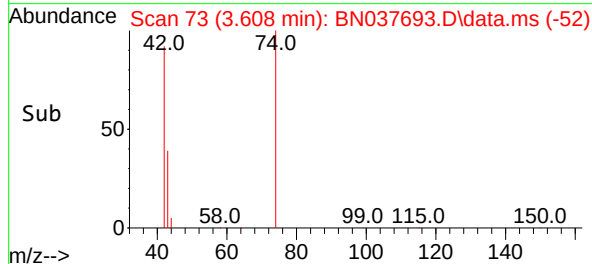
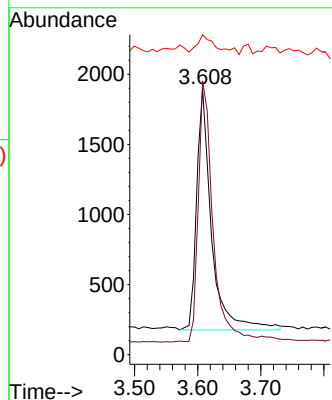
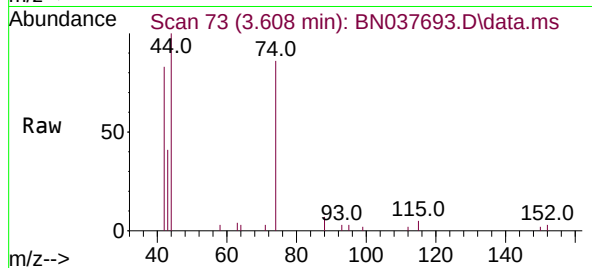




#3
n-Nitrosodimethylamine
Concen: 0.414 ng
RT: 3.608 min Scan# 73
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

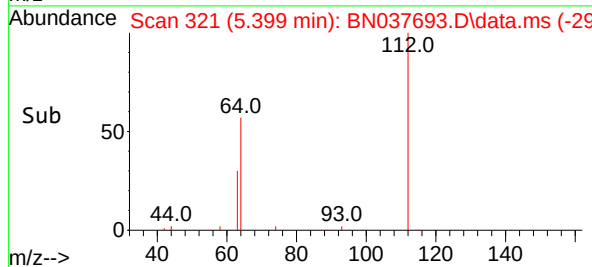
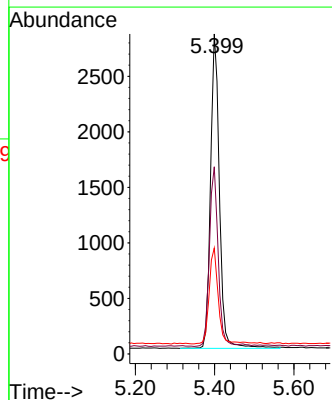
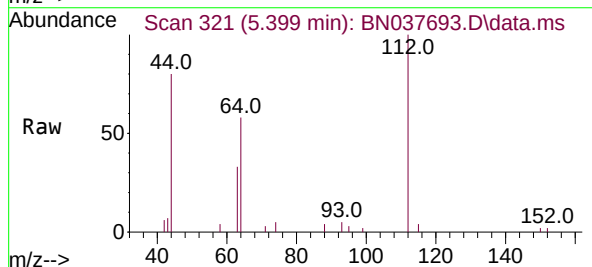
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

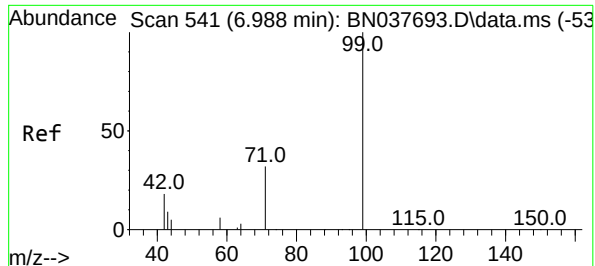
Tgt Ion: 42 Resp: 2814
Ion Ratio Lower Upper
42 100
74 106.5 86.0 129.0
44 10.4 8.4 12.6



#4
2-Fluorophenol
Concen: 0.388 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion: 112 Resp: 4452
Ion Ratio Lower Upper
112 100
64 56.1 44.9 67.3
63 30.9 24.7 37.1

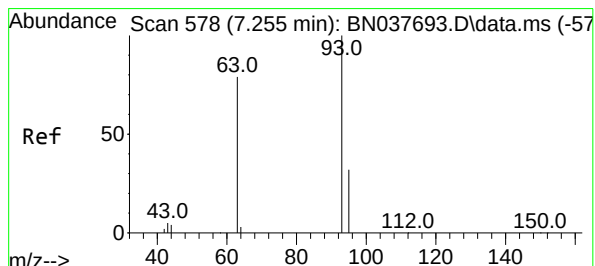
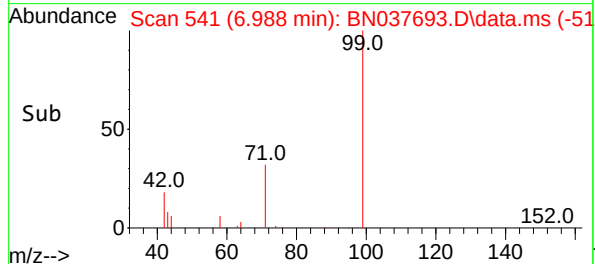
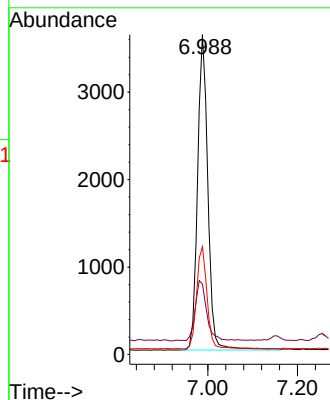
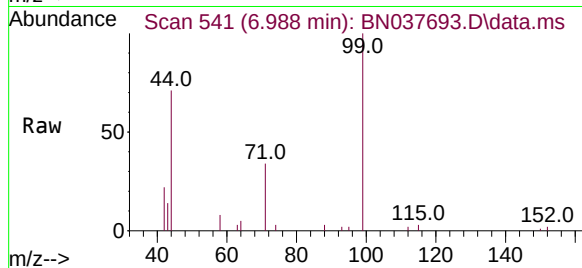




#5
Phenol-d6
Concen: 0.388 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

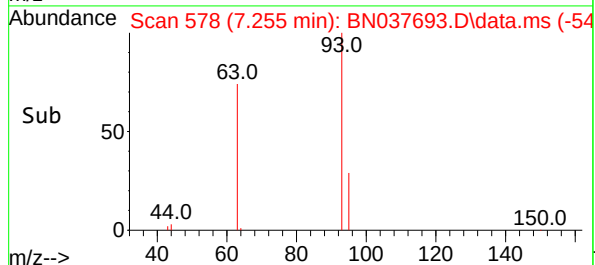
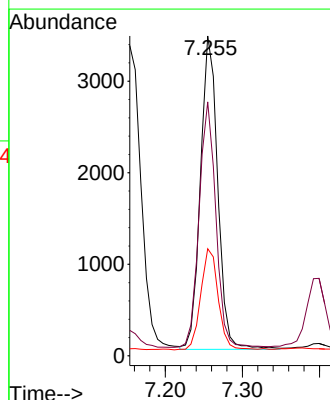
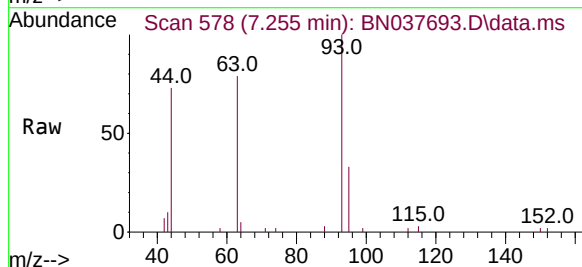
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

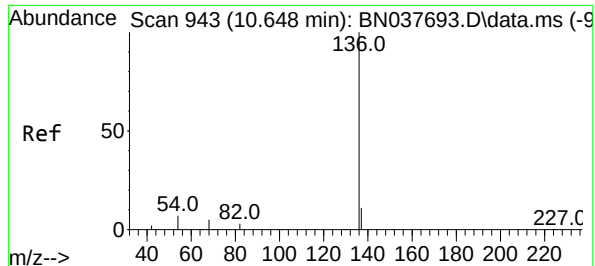
Tgt Ion: 99 Resp: 5771
Ion Ratio Lower Upper
99 100
42 20.7 16.6 24.8
71 33.4 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.402 ng
RT: 7.255 min Scan# 578
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion: 93 Resp: 5343
Ion Ratio Lower Upper
93 100
63 75.7 60.6 90.8
95 32.5 26.0 39.0

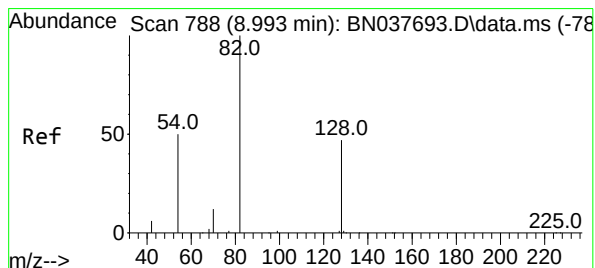
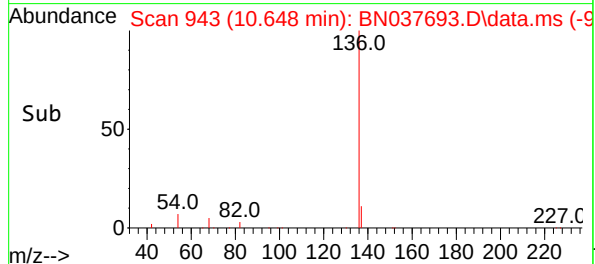
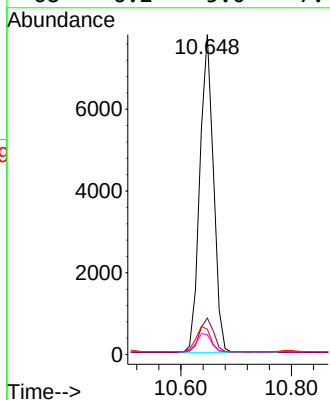
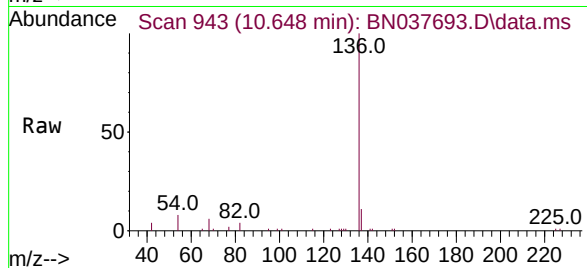




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

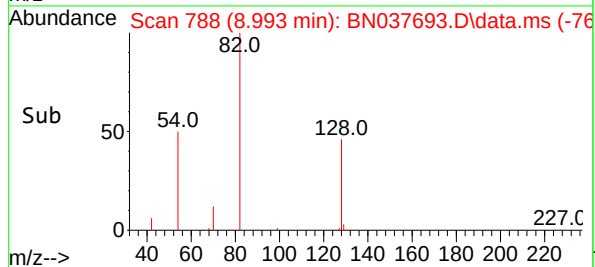
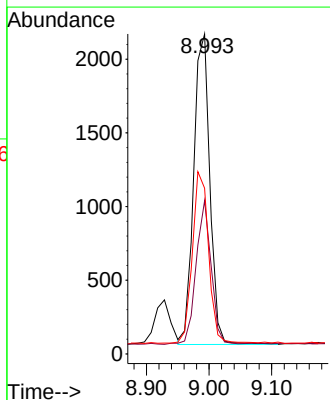
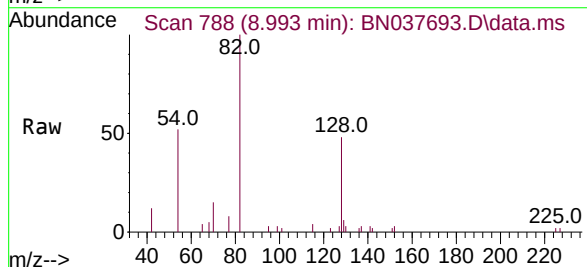
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

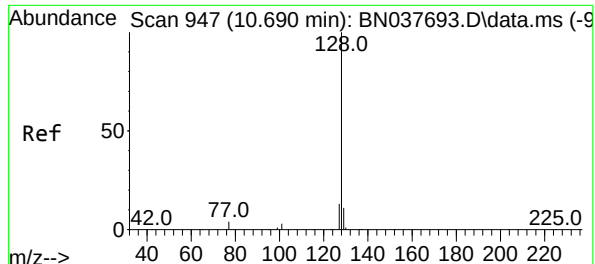
Tgt Ion:	136	Resp:	13249
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	7.9	6.3	9.5
68	6.2	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.389 ng
RT: 8.993 min Scan# 788
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:	82	Resp:	3770
Ion	Ratio	Lower	Upper
82	100		
128	47.9	38.3	57.5
54	51.8	41.4	62.2

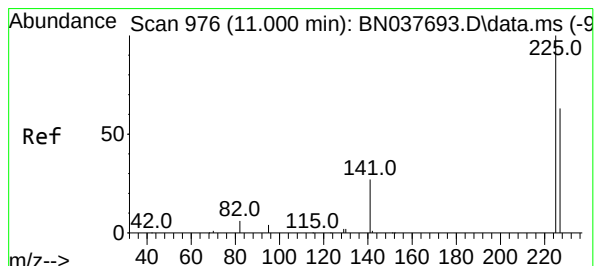
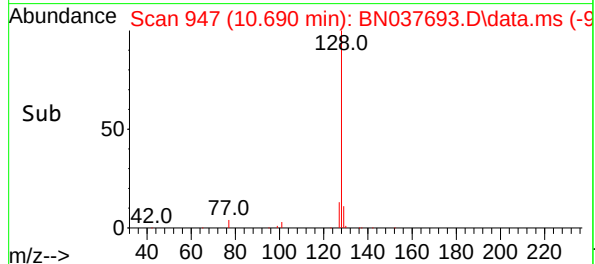
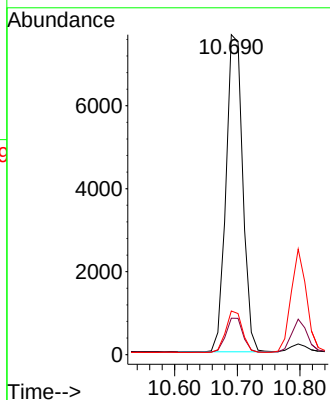
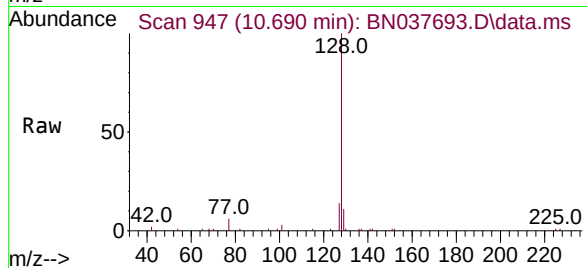




#9
Naphthalene
Concen: 0.393 ng
RT: 10.690 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

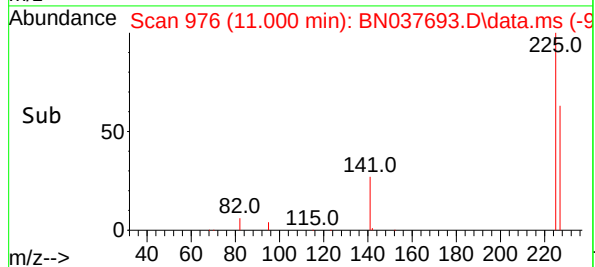
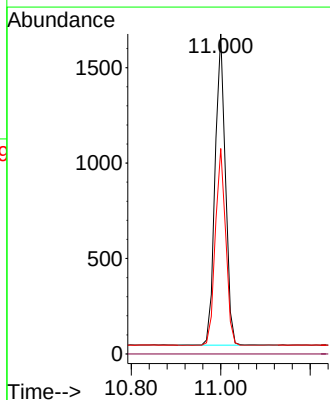
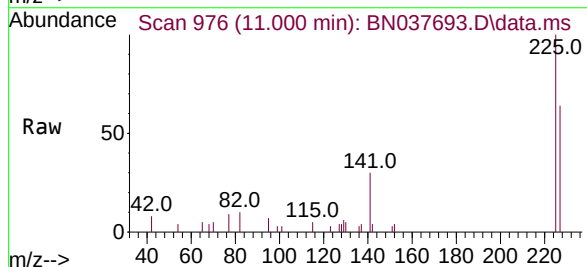
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

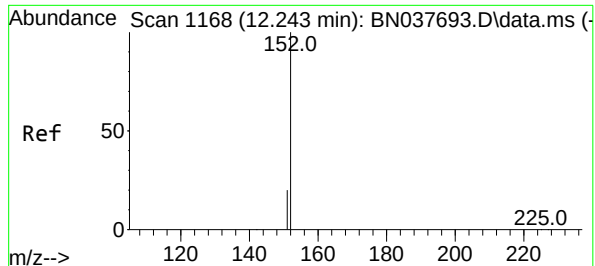
Tgt Ion:128 Resp: 14229
Ion Ratio Lower Upper
128 100
129 11.4 9.1 13.7
127 13.6 10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.399 ng
RT: 11.000 min Scan# 976
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:225 Resp: 2615
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 50.9 76.3

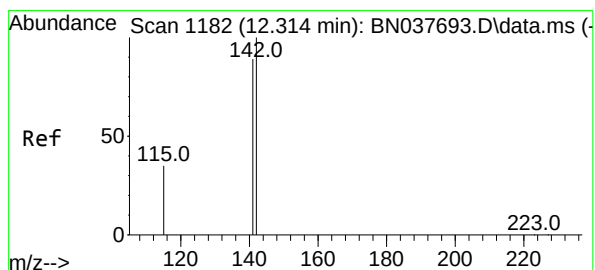
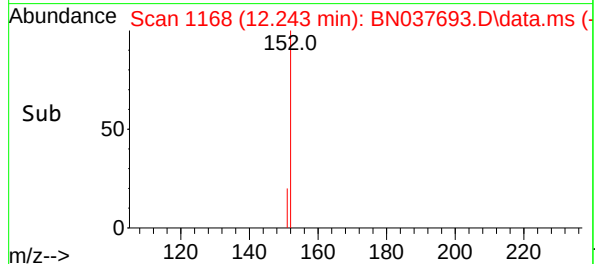
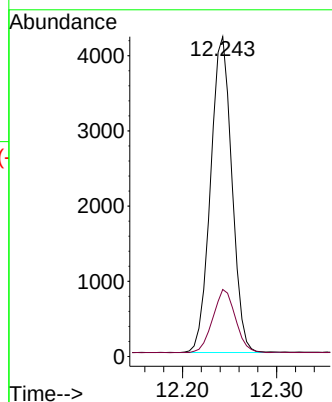
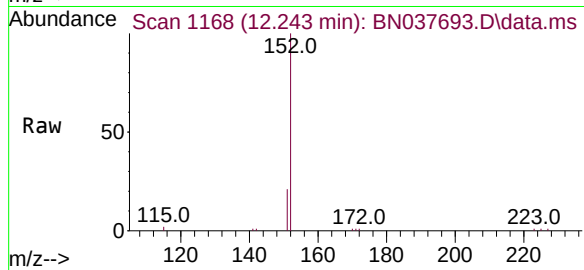




#11
2-Methylnaphthalene-d10
Concen: 0.376 ng
RT: 12.243 min Scan# 1168
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

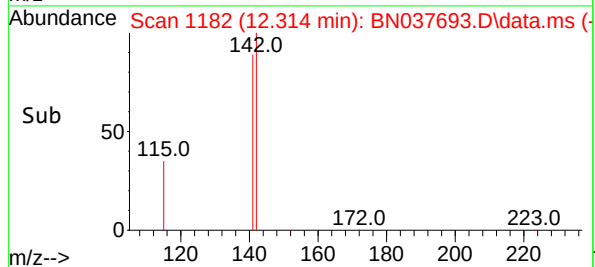
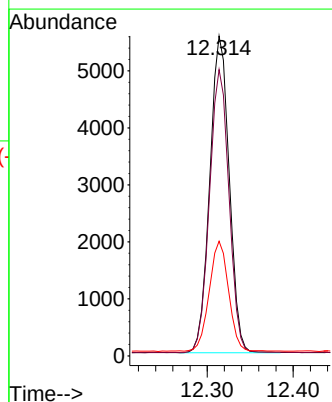
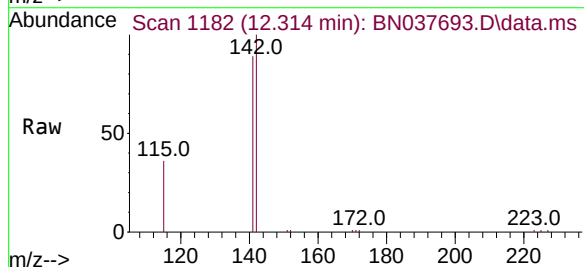
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

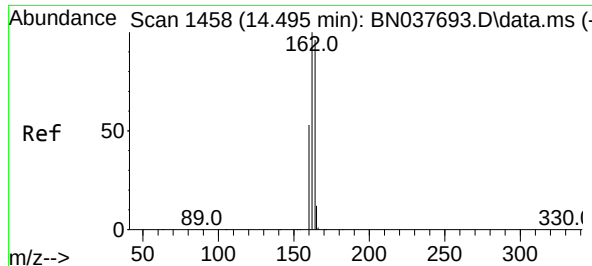
Tgt Ion:152 Resp: 6602
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.390 ng
RT: 12.314 min Scan# 1182
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:142 Resp: 8728
Ion Ratio Lower Upper
142 100
141 89.5 71.6 107.4
115 35.8 28.6 43.0

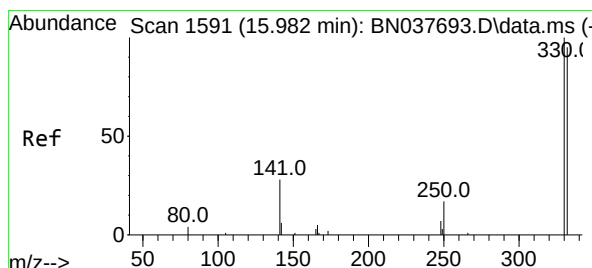
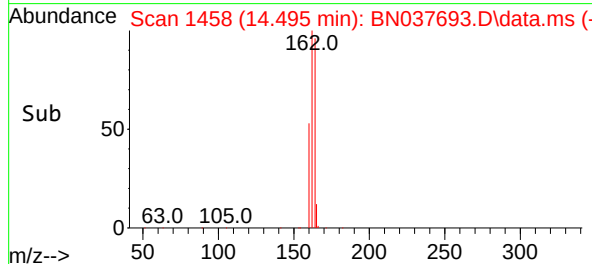
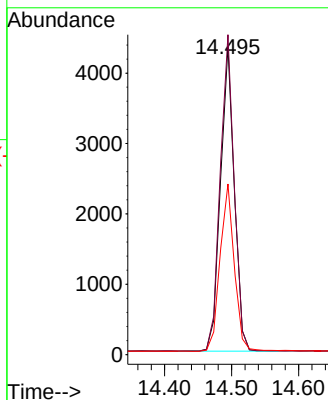
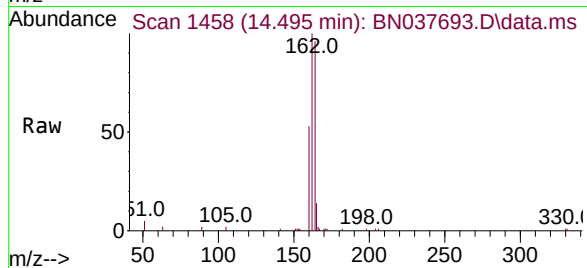




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 1458
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

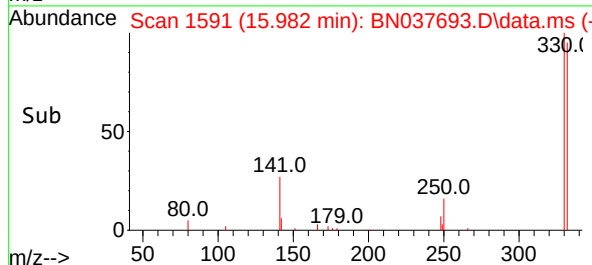
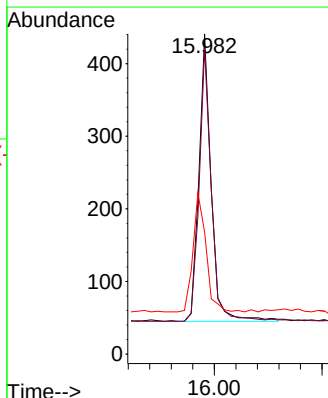
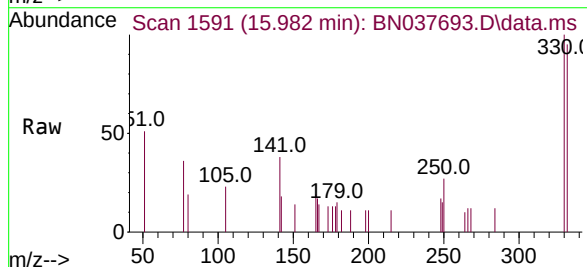
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

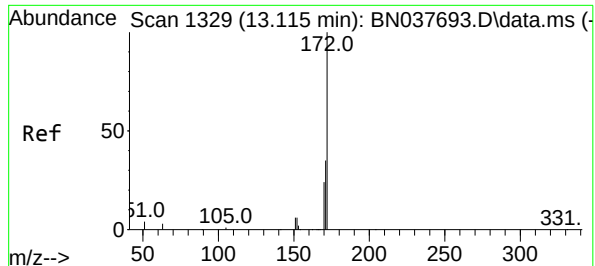
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.9	83.1	124.7
160	55.4	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.386 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion	Ratio	Lower	Upper
330	100		
332	94.1	75.3	112.9
141	43.7	35.0	52.4

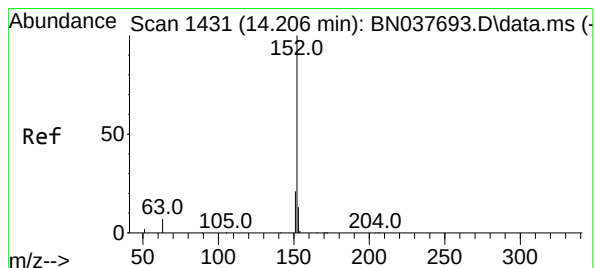
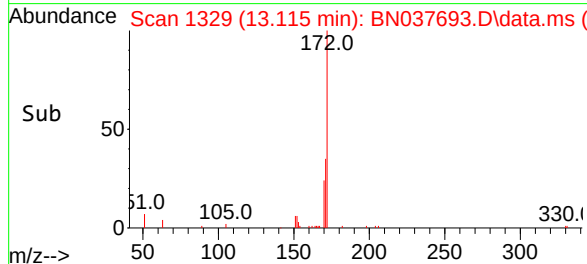
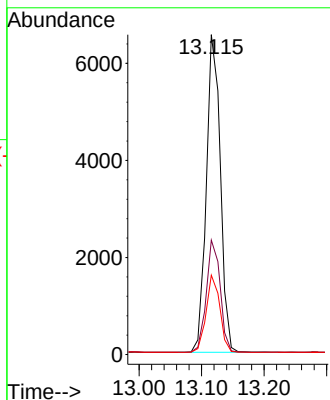
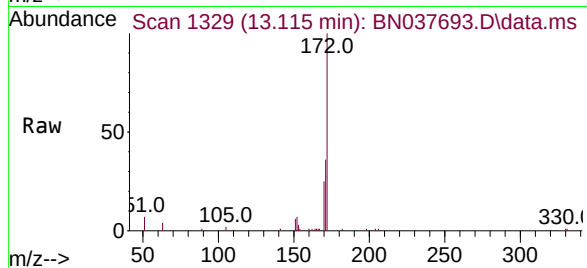




#15
2-Fluorobiphenyl
Concen: 0.394 ng
RT: 13.115 min Scan# 1329
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

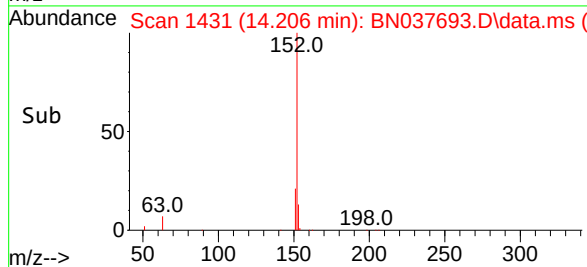
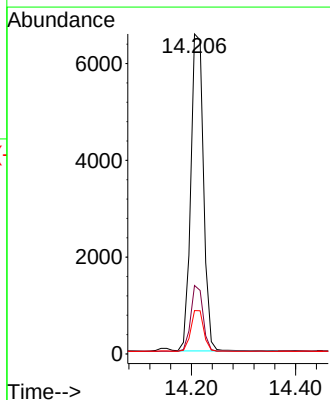
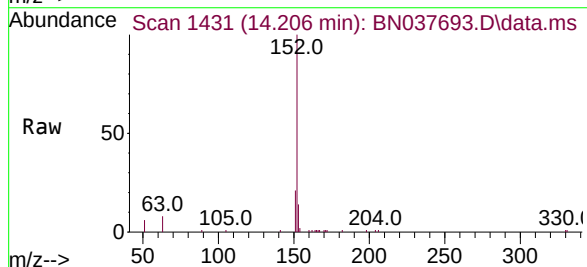
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

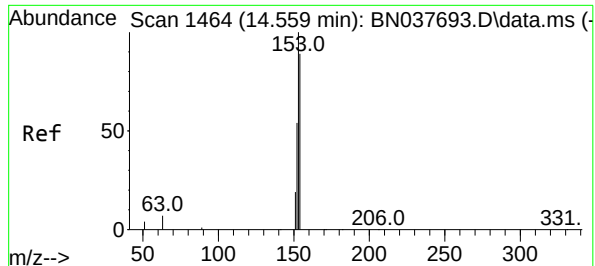
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	24.8	19.8	29.8



#16
Acenaphthylene
Concen: 0.389 ng
RT: 14.206 min Scan# 1431
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	13.0	10.4	15.6

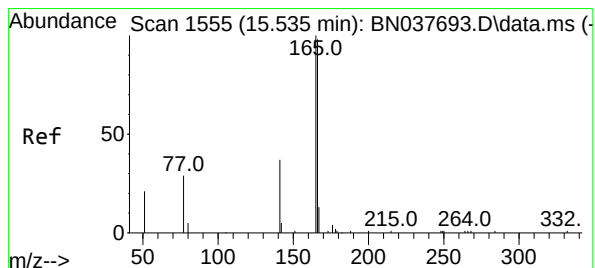
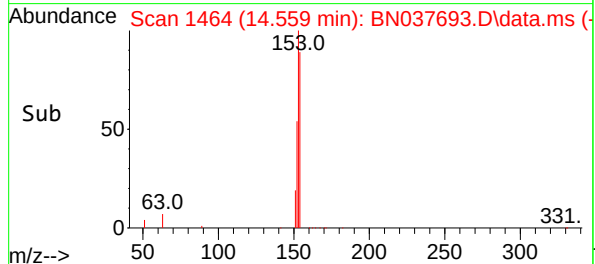
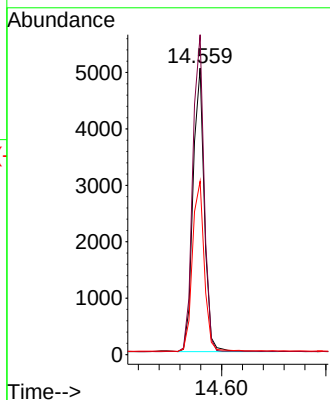
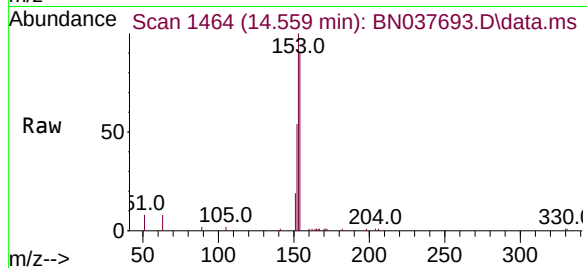




#17
Acenaphthene
Concen: 0.392 ng
RT: 14.559 min Scan# 1464
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

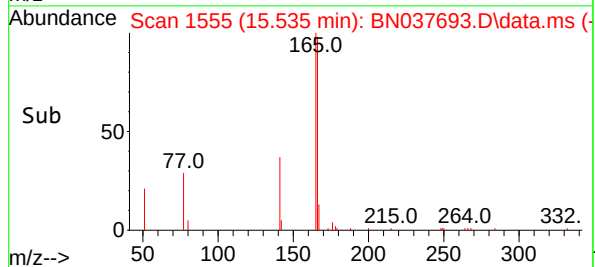
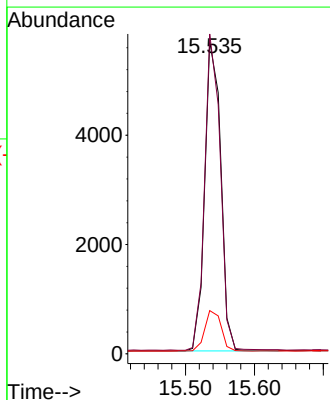
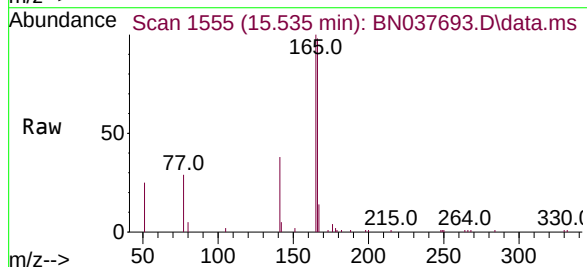
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

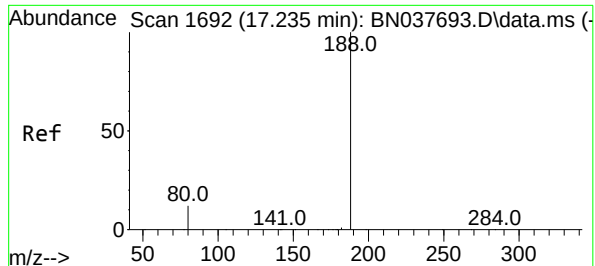
Tgt Ion	154	153	152
Resp:	7540		
Ion Ratio	100	112.3	62.7
Lower		89.8	50.2
Upper		134.8	75.2



#18
Fluorene
Concen: 0.384 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion	166	165	167
Resp:	8938		
Ion Ratio	100	99.5	13.3
Lower		79.6	10.6
Upper		119.4	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

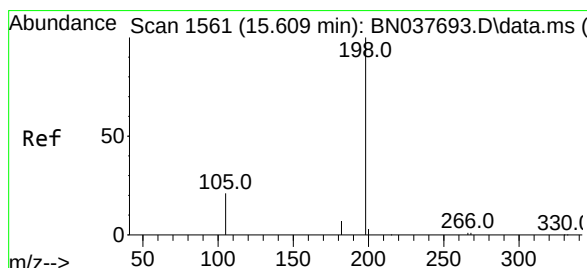
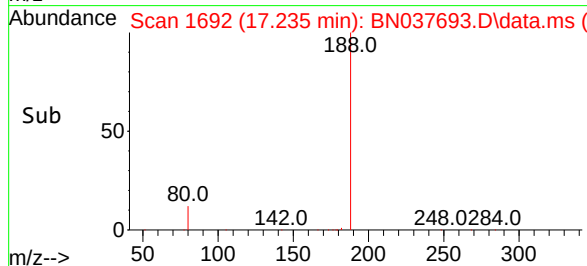
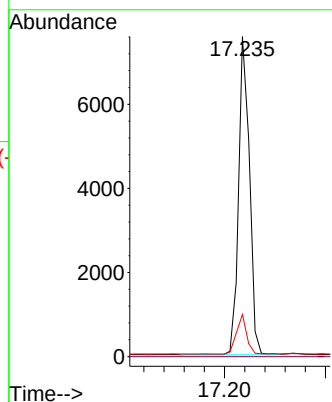
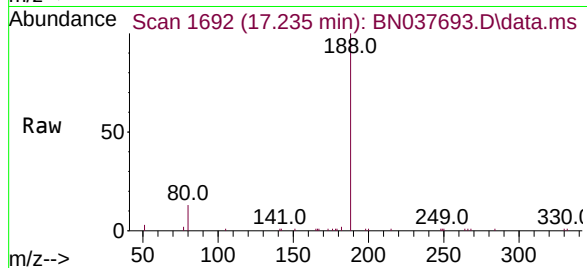
Tgt Ion:188 Resp: 11263

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.2 10.6 15.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.357 ng

RT: 15.609 min Scan# 1561

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

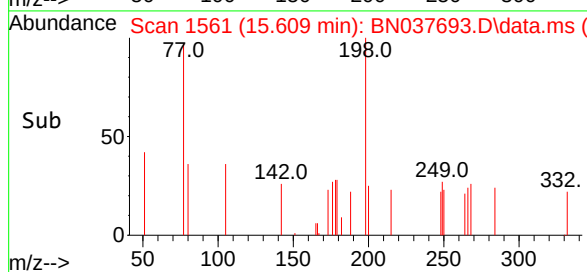
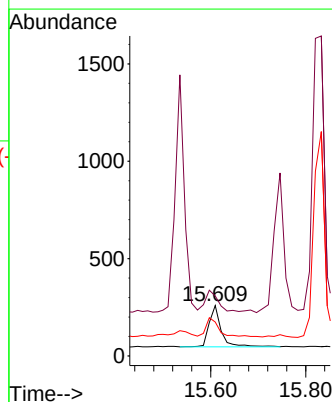
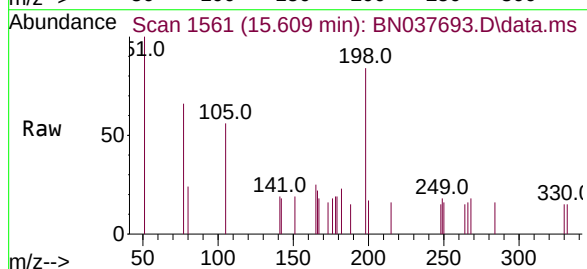
Tgt Ion:198 Resp: 372

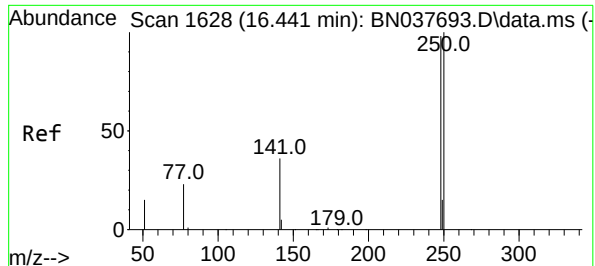
Ion Ratio Lower Upper

198 100

51 118.9 95.1 142.7

105 67.2 53.8 80.6

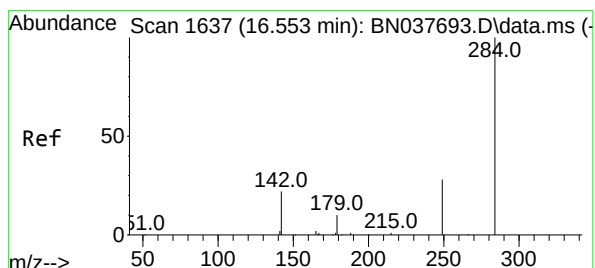
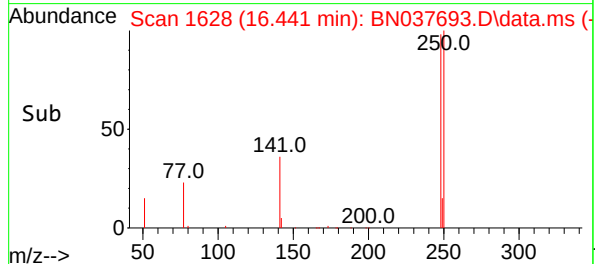
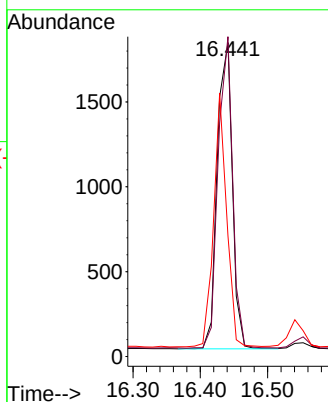
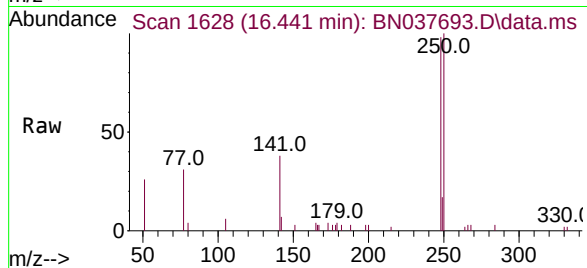




#21
4-Bromophenyl-phenylether
Concen: 0.385 ng
RT: 16.441 min Scan# 1628
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

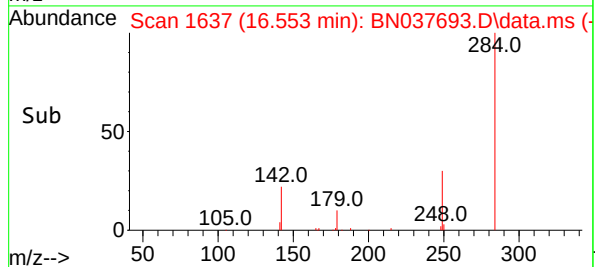
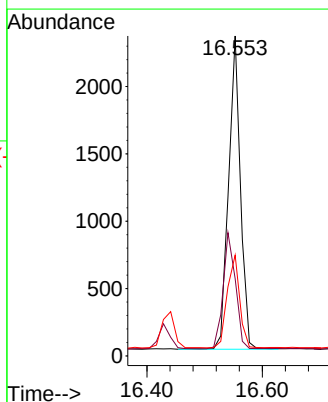
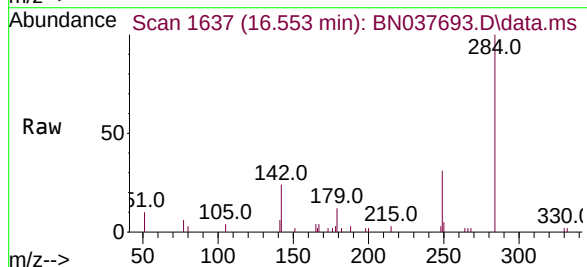
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

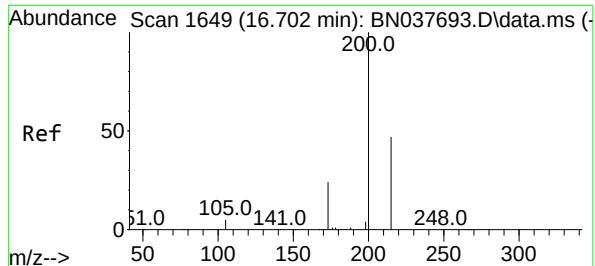
Tgt Ion	248	250	141
Resp:	2827		
Ion Ratio	100	101.9	38.5
Lower		81.5	30.8
Upper		122.3	46.2



#22
Hexachlorobenzene
Concen: 0.392 ng
RT: 16.553 min Scan# 1637
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion	284	142	249
Resp:	3312		
Ion Ratio	100	38.6	31.0
Lower		30.9	24.8
Upper		46.3	37.2

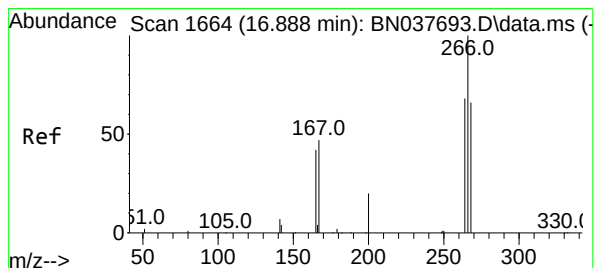
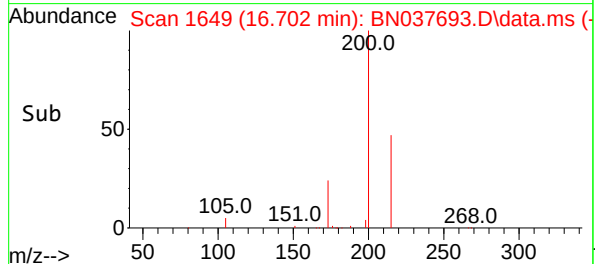
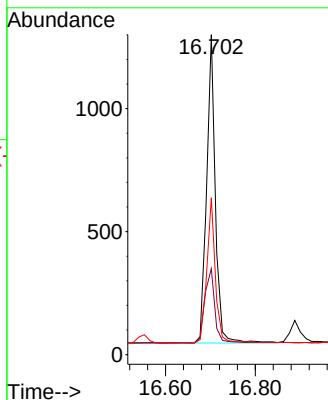
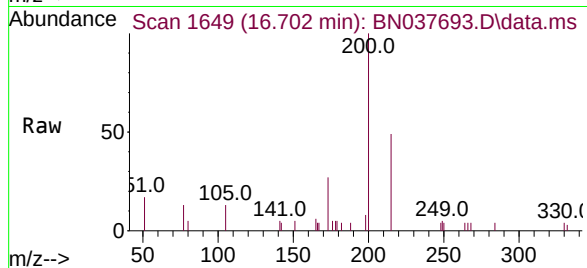




#23
Atrazine
Concen: 0.365 ng
RT: 16.702 min Scan# 1649
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

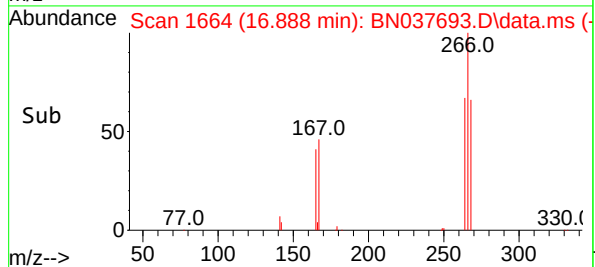
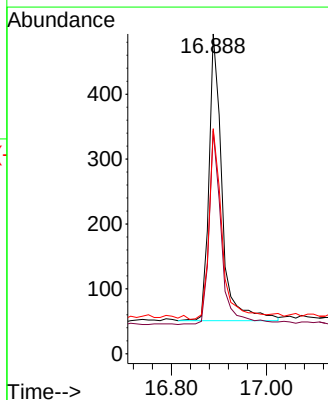
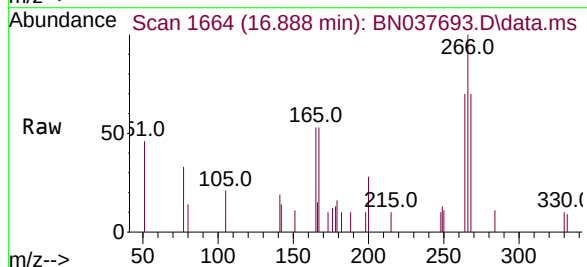
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

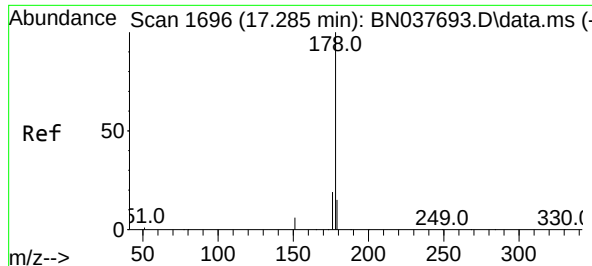
Tgt Ion	200	Resp:	1707
Ion Ratio	Lower	Upper	
200	100		
173	26.8	21.4	32.2
215	49.0	39.2	58.8



#24
Pentachlorophenol
Concen: 0.342 ng
RT: 16.888 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion	266	Resp:	839
Ion Ratio	Lower	Upper	
266	100		
264	64.5	51.6	77.4
268	66.5	53.2	79.8





#25

Phenanthrene

Concen: 0.389 ng

RT: 17.285 min Scan# 1696

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

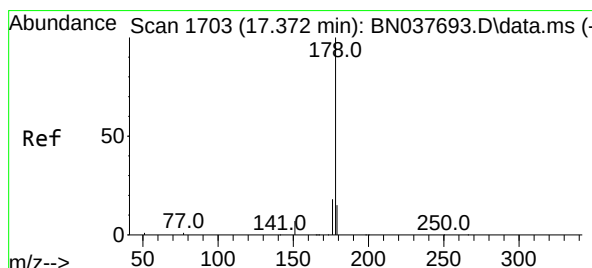
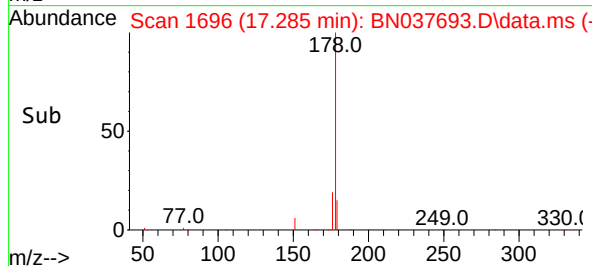
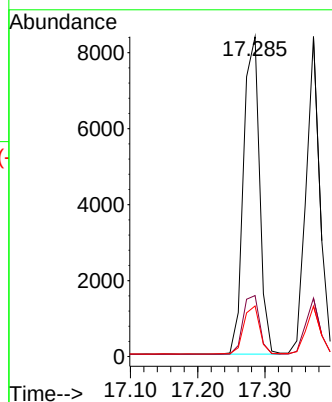
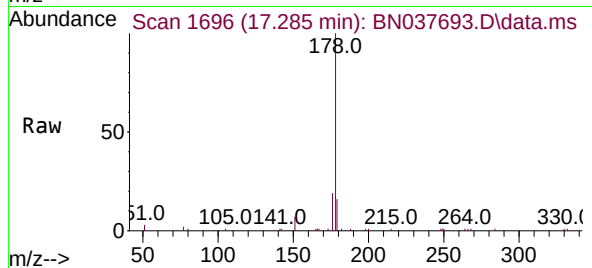
Tgt Ion:178 Resp: 13778

Ion Ratio Lower Upper

178 100

176 19.1 15.3 22.9

179 15.2 12.2 18.2



#26

Anthracene

Concen: 0.384 ng

RT: 17.372 min Scan# 1703

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

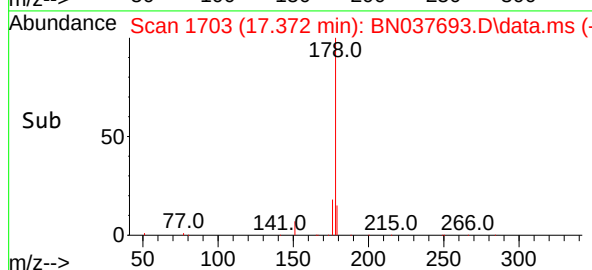
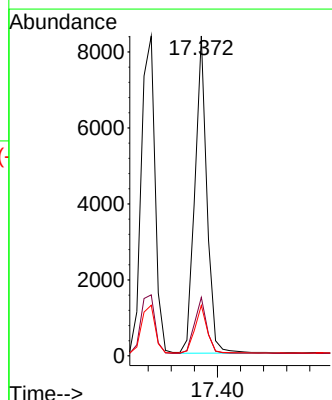
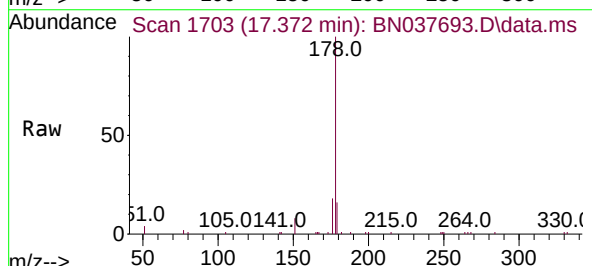
Tgt Ion:178 Resp: 12049

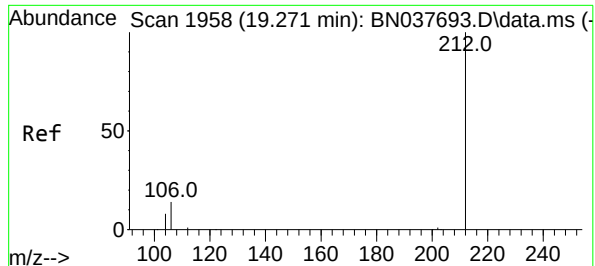
Ion Ratio Lower Upper

178 100

176 18.2 14.6 22.0

179 15.3 12.2 18.4





#27

Fluoranthene-d10

Concen: 0.372 ng

RT: 19.271 min Scan# 1958

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

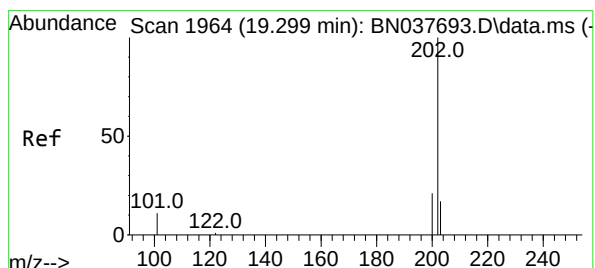
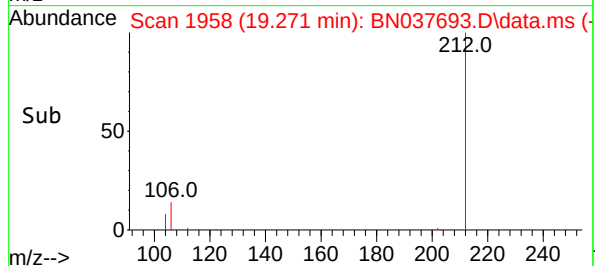
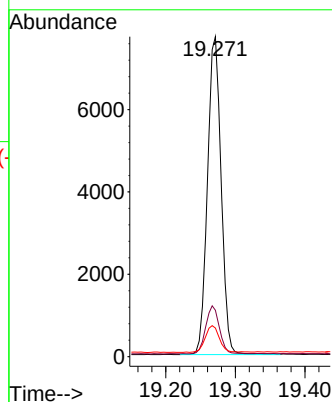
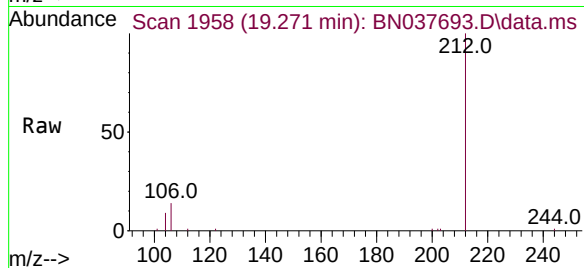
Tgt Ion:212 Resp: 10530

Ion Ratio Lower Upper

212 100

106 15.2 12.2 18.2

104 8.6 6.9 10.3



#28

Fluoranthene

Concen: 0.379 ng

RT: 19.299 min Scan# 1964

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

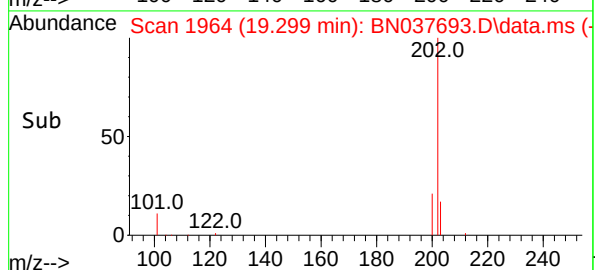
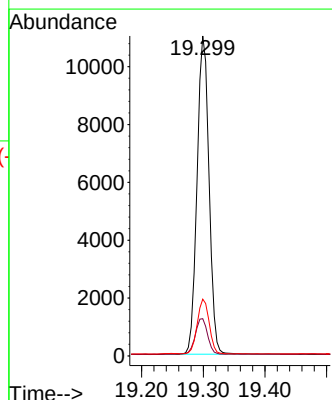
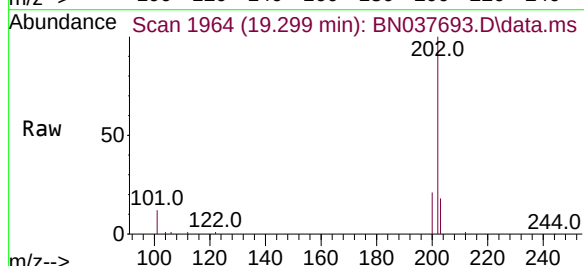
Tgt Ion:202 Resp: 14751

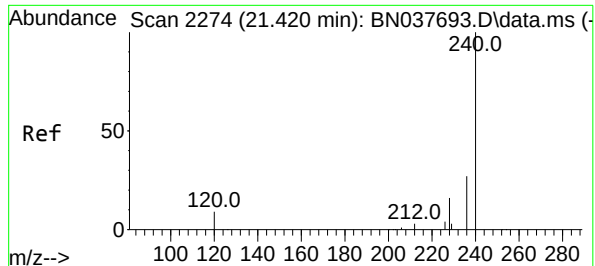
Ion Ratio Lower Upper

202 100

101 11.6 9.3 13.9

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.420 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

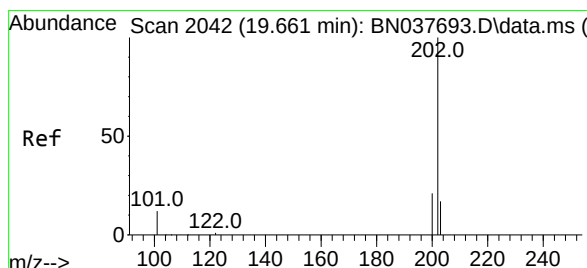
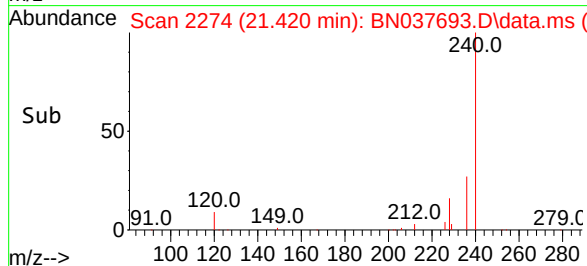
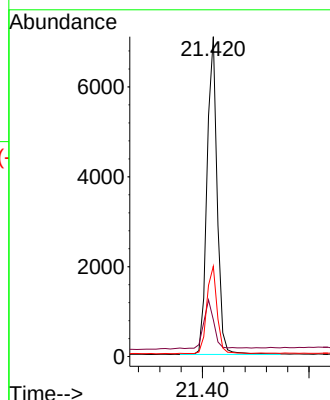
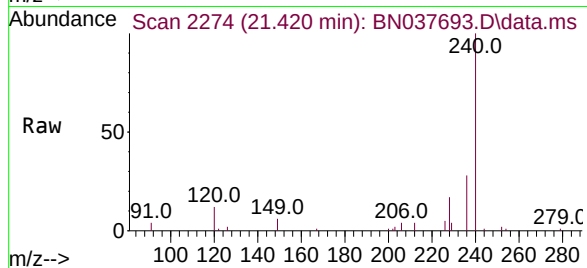
Tgt Ion:240 Resp: 9368

Ion Ratio Lower Upper

240 100

120 11.5 9.2 13.8

236 28.2 22.6 33.8



#30

Pyrene

Concen: 0.398 ng

RT: 19.661 min Scan# 2042

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

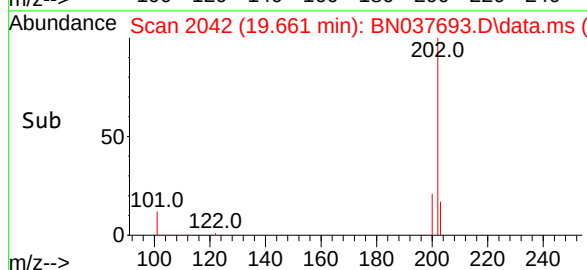
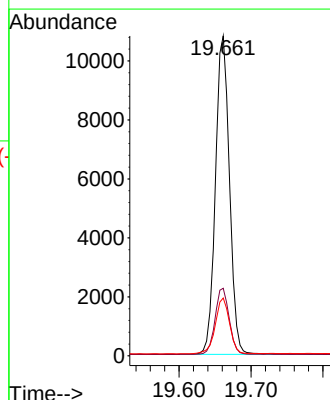
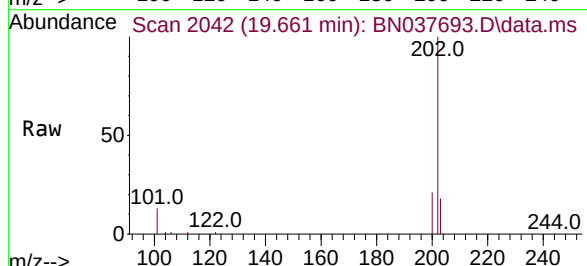
Tgt Ion:202 Resp: 14587

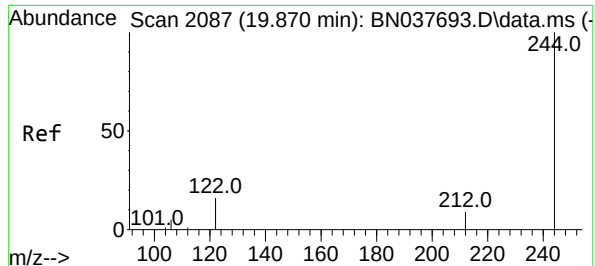
Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 17.9 14.3 21.5

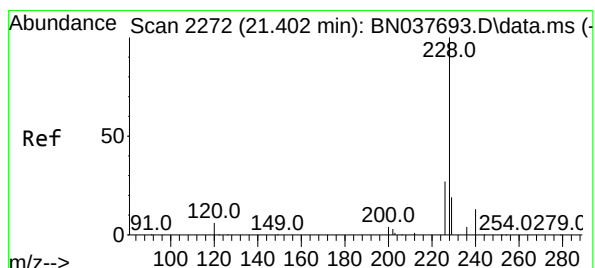
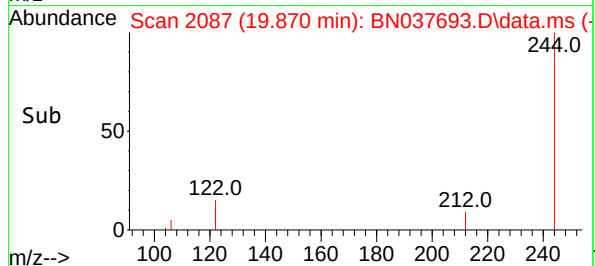
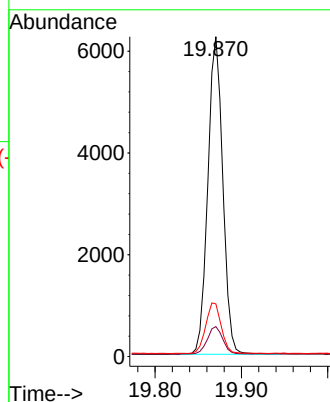
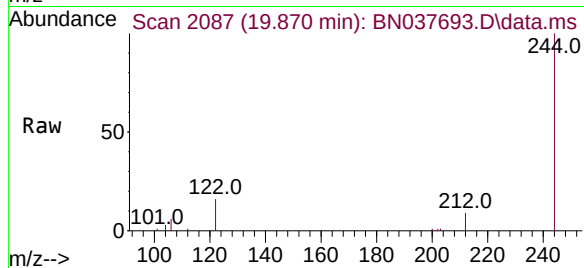




#31
Terphenyl-d14
Concen: 0.395 ng
RT: 19.870 min Scan# 2087
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

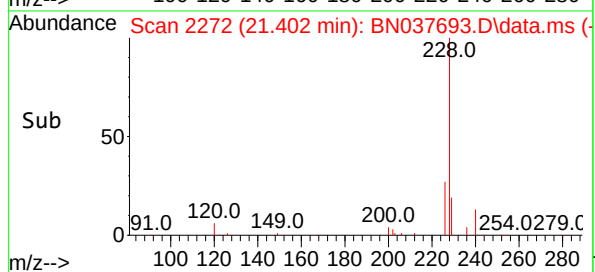
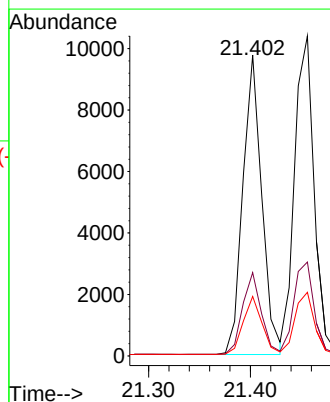
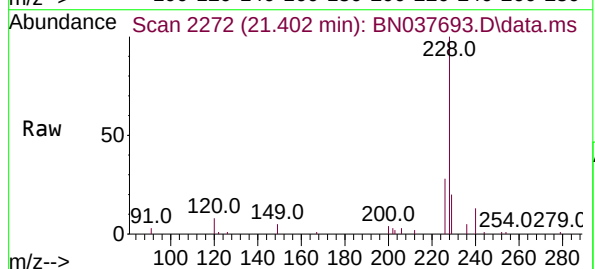
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

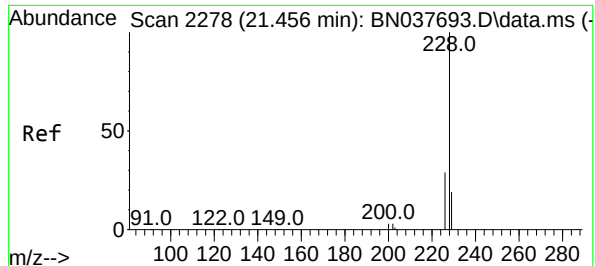
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.5	11.3
122	16.5	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.386 ng
RT: 21.402 min Scan# 2272
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.2	33.2
229	19.7	15.8	23.6





#33

Chrysene

Concen: 0.400 ng

RT: 21.456 min Scan# 2278

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

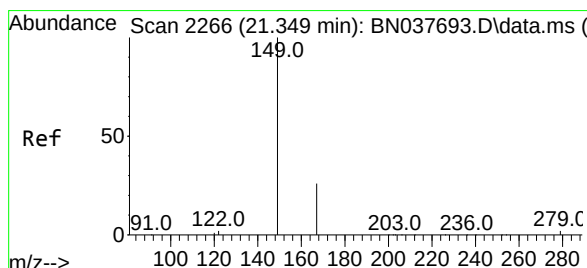
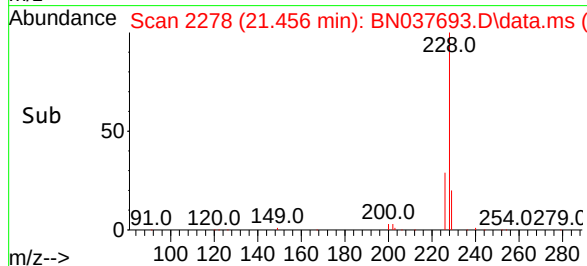
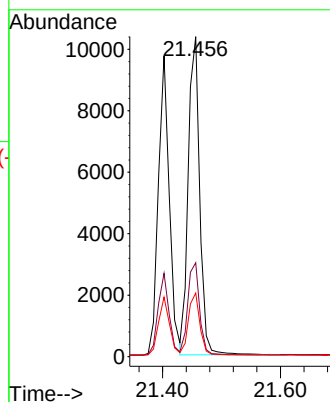
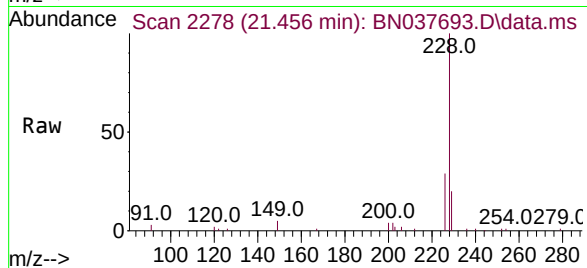
Tgt Ion:228 Resp: 14018

Ion Ratio Lower Upper

228 100

226 29.4 23.5 35.3

229 19.9 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.363 ng

RT: 21.349 min Scan# 2266

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

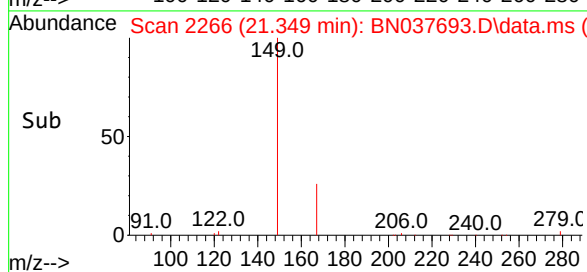
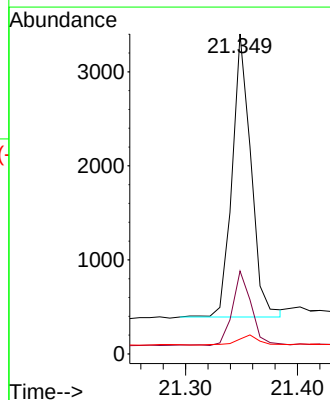
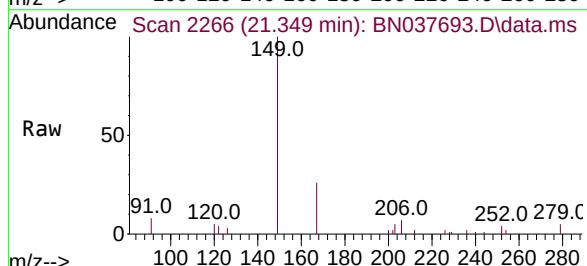
Tgt Ion:149 Resp: 3520

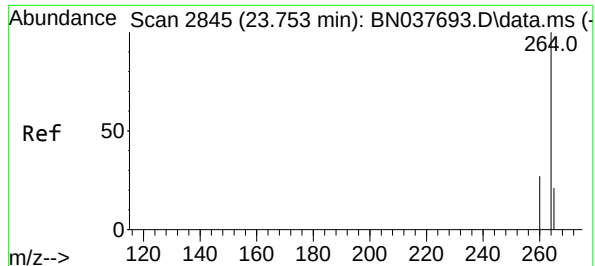
Ion Ratio Lower Upper

149 100

167 25.8 20.8 31.2

279 4.0 3.3 4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.753 min Scan# 2845

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

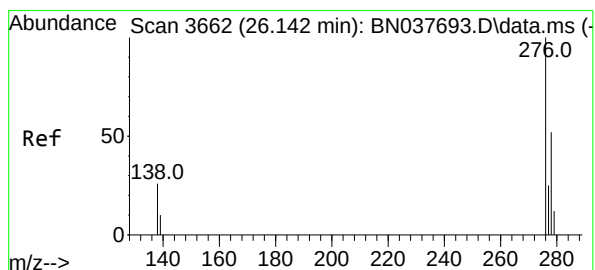
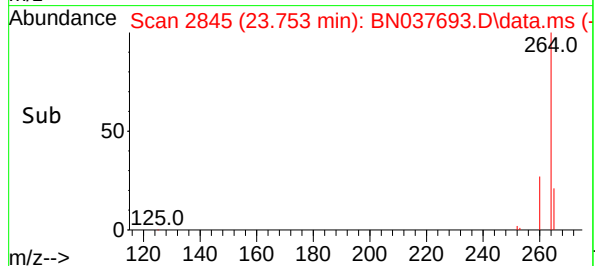
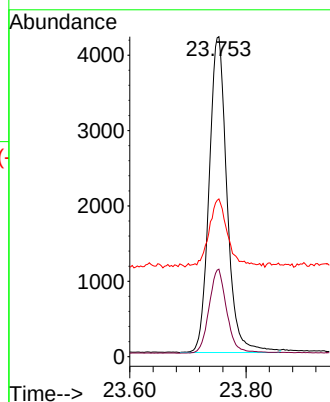
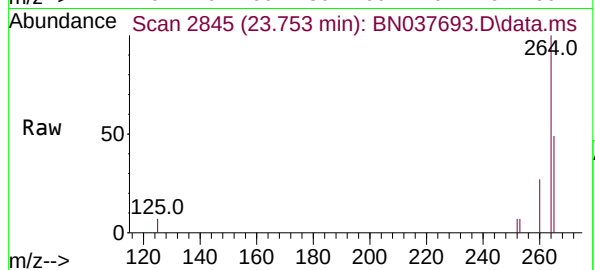
Tgt Ion:264 Resp: 8965

Ion Ratio Lower Upper

264 100

260 27.3 21.8 32.8

265 49.3 39.4 59.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.367 ng

RT: 26.142 min Scan# 3662

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

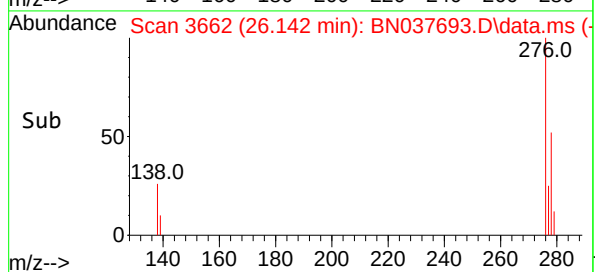
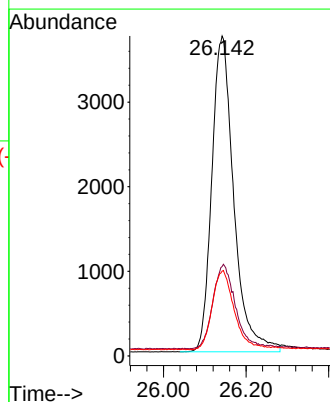
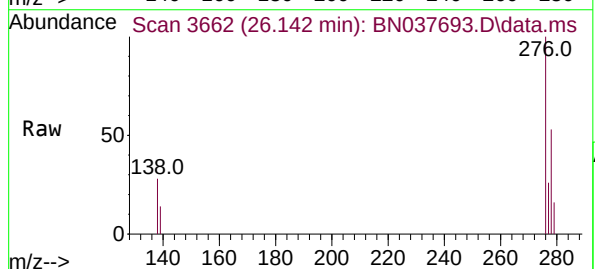
Tgt Ion:276 Resp: 13835

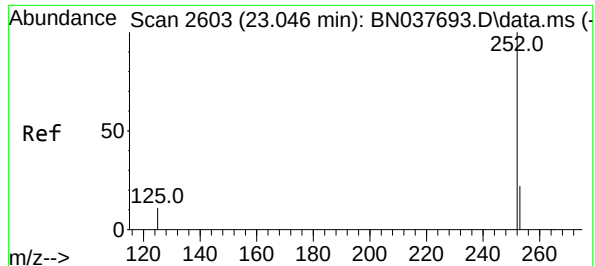
Ion Ratio Lower Upper

276 100

138 27.4 21.9 32.9

277 25.1 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.395 ng

RT: 23.046 min Scan# 2603

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

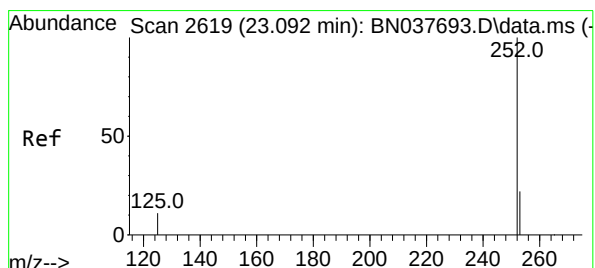
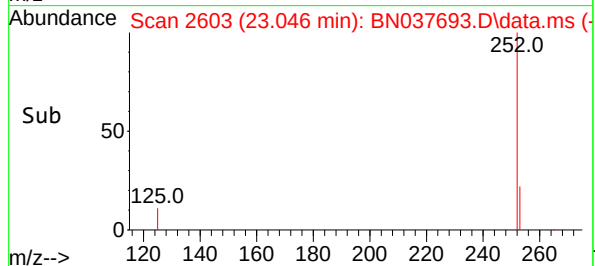
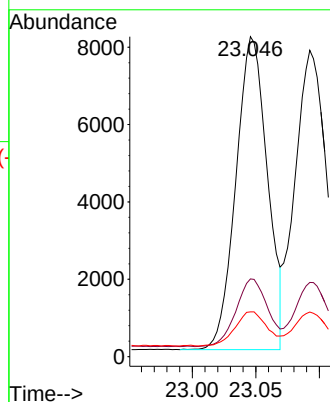
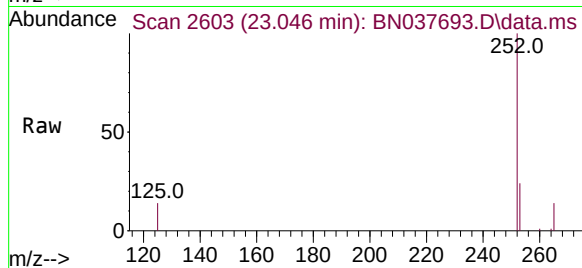
Tgt Ion:252 Resp: 13935

Ion Ratio Lower Upper

252 100

253 24.3 19.4 29.2

125 14.0 11.2 16.8



#38

Benzo(k)fluoranthene

Concen: 0.379 ng

RT: 23.092 min Scan# 2619

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

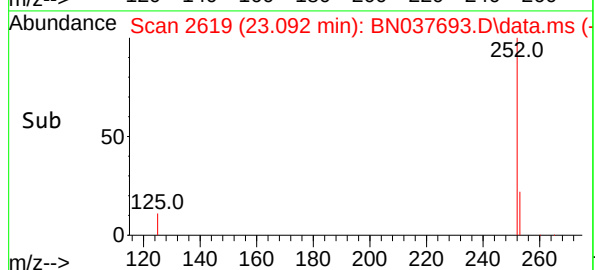
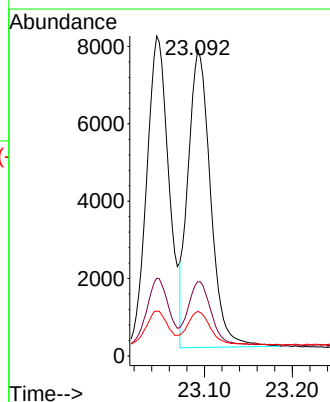
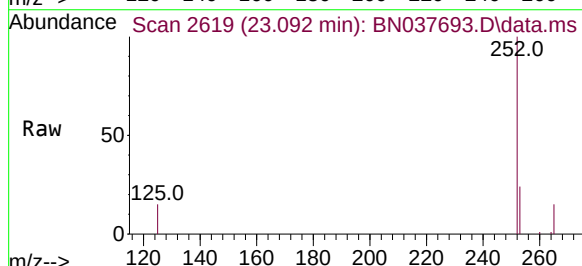
Tgt Ion:252 Resp: 13659

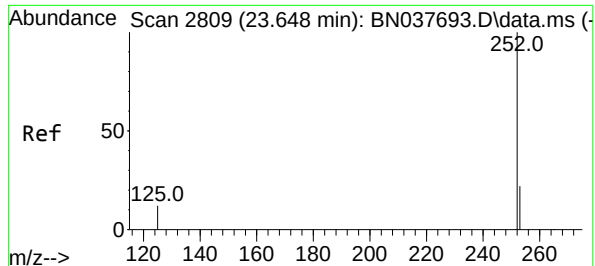
Ion Ratio Lower Upper

252 100

253 24.2 19.4 29.0

125 14.5 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.381 ng

RT: 23.648 min Scan# 2809

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

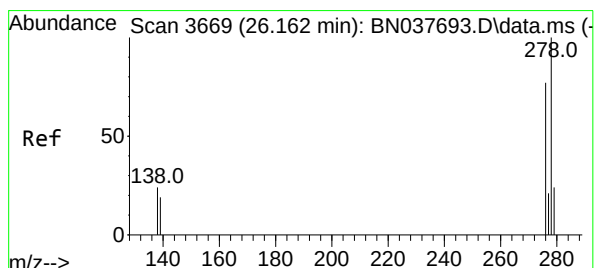
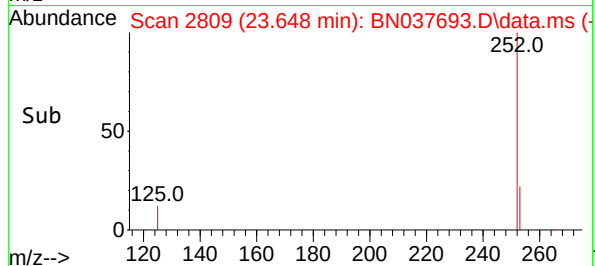
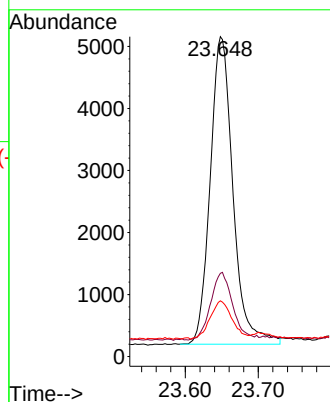
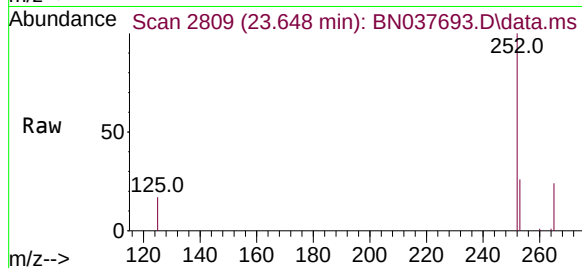
Tgt Ion:252 Resp: 10766

Ion Ratio Lower Upper

252 100

253 26.0 20.8 31.2

125 17.4 13.9 20.9



#40

Dibenzo(a,h)anthracene

Concen: 0.361 ng

RT: 26.162 min Scan# 3669

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

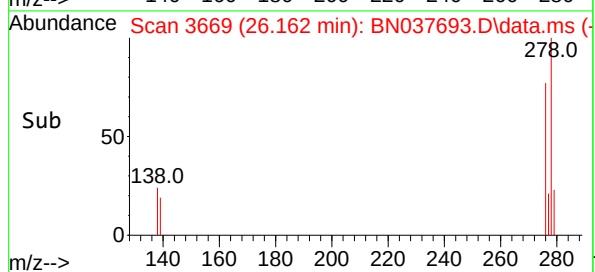
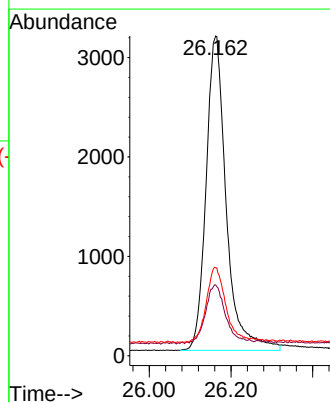
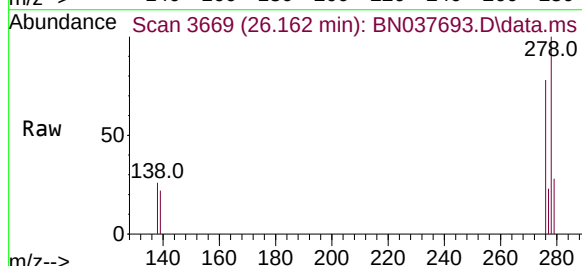
Tgt Ion:278 Resp: 10852

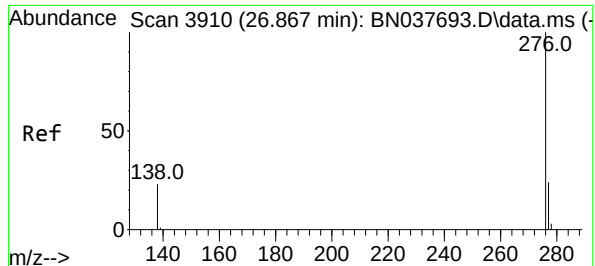
Ion Ratio Lower Upper

278 100

139 22.2 17.8 26.6

279 27.5 22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 0.385 ng

RT: 26.867 min Scan# 3910

Delta R.T. 0.000 min

Lab File: BN037693.D

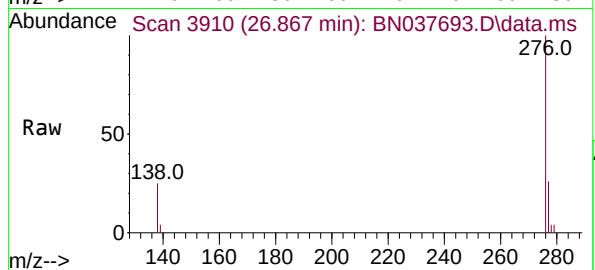
Acq: 11 Sep 2025 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



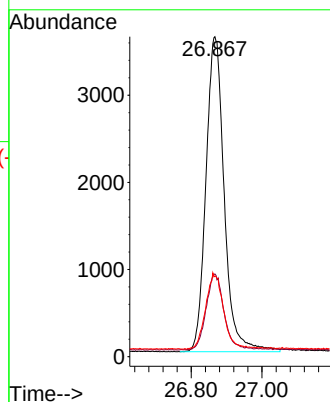
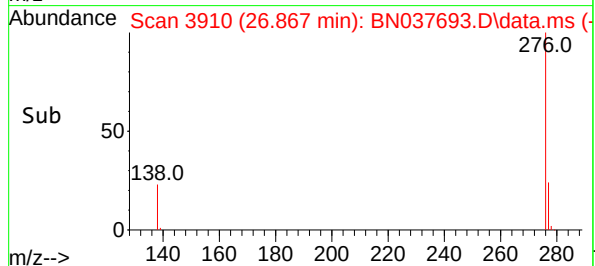
Tgt Ion:276 Resp: 13009

Ion Ratio Lower Upper

276 100

277 25.8 20.6 31.0

138 25.2 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
 Data File : BN037694.D
 Acq On : 11 Sep 2025 11:44
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Sep 11 14:06:29 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:02:44 2025
 Response via : Initial Calibration

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

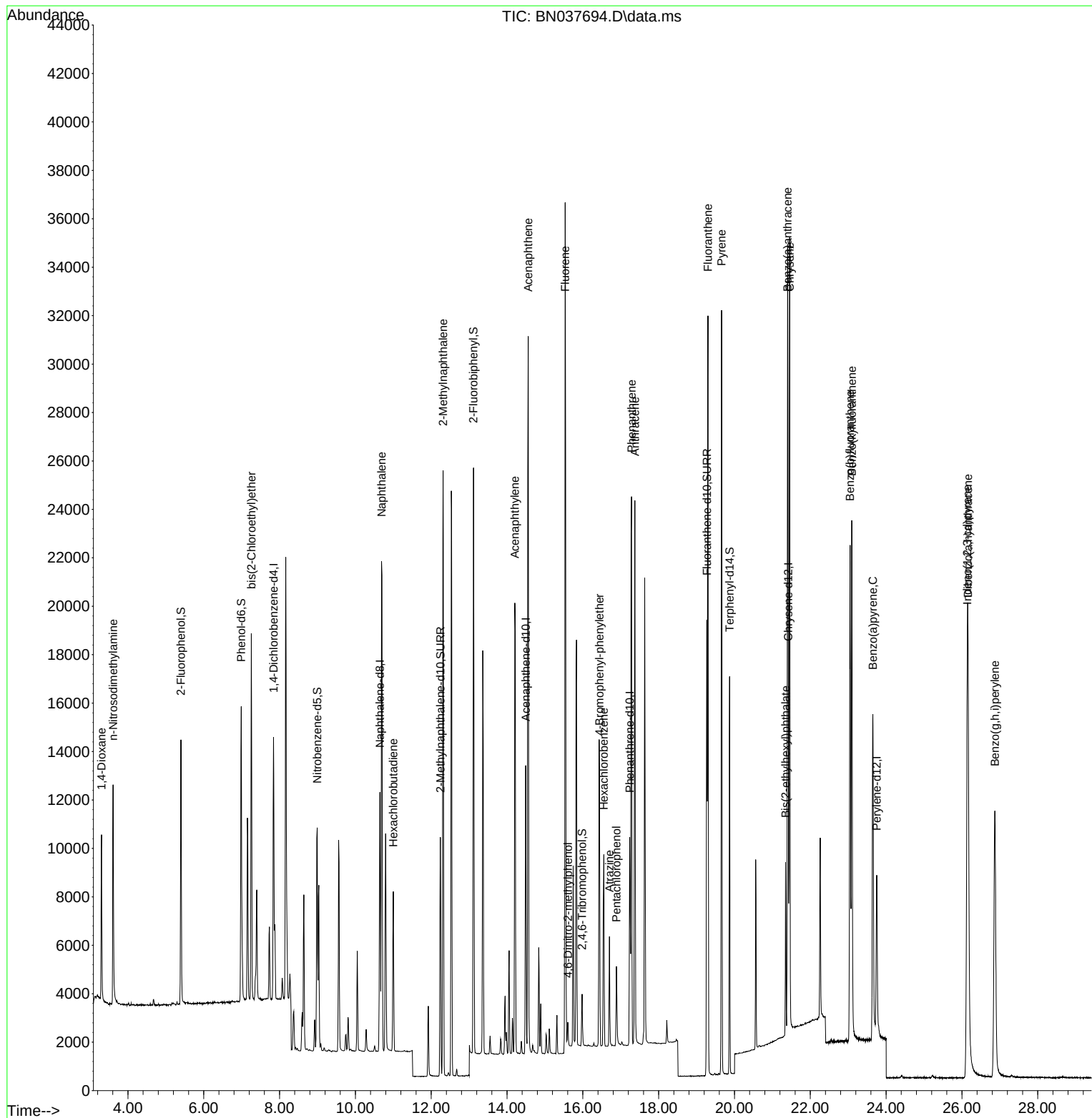
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	5166	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	13664	0.400	ng	0.00
13) Acenaphthene-d10	14.495	164	6297	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	11247	0.400	ng	0.00
29) Chrysene-d12	21.420	240	9536	0.400	ng	0.00
35) Perylene-d12	23.753	264	9336	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	8684	0.732	ng	0.00
5) Phenol-d6	6.988	99	11241	0.731	ng	0.00
8) Nitrobenzene-d5	8.993	82	7438	0.744	ng	0.00
11) 2-Methylnaphthalene-d10	12.243	152	13053	0.721	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	1211	0.737	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	19971	0.758	ng	0.00
27) Fluoranthene-d10	19.271	212	19870	0.704	ng	0.00
31) Terphenyl-d14	19.870	244	14384	0.743	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.304	88	4244	0.789	ng	98
3) n-Nitrosodimethylamine	3.608	42	5321	0.757	ng	# 93
6) bis(2-Chloroethyl)ether	7.255	93	10526	0.766	ng	99
9) Naphthalene	10.690	128	28311	0.758	ng	100
10) Hexachlorobutadiene	11.000	225	5165	0.764	ng	# 99
12) 2-Methylnaphthalene	12.314	142	17311	0.749	ng	99
16) Acenaphthylene	14.206	152	21746	0.753	ng	99
17) Acenaphthene	14.559	154	14943	0.765	ng	100
18) Fluorene	15.535	166	17870	0.756	ng	97
20) 4,6-Dinitro-2-methylph...	15.609	198	751	0.721	ng	# 66
21) 4-Bromophenyl-phenylether	16.441	248	5576	0.760	ng	99
22) Hexachlorobenzene	16.553	284	6299	0.747	ng	99
23) Atrazine	16.702	200	3288	0.705	ng	98
24) Pentachlorophenol	16.888	266	1652	0.674	ng	97
25) Phenanthrene	17.285	178	26380	0.745	ng	100
26) Anthracene	17.372	178	23177	0.739	ng	100
28) Fluoranthene	19.299	202	28541	0.735	ng	100
30) Pyrene	19.661	202	28089	0.752	ng	100
32) Benzo(a)anthracene	21.402	228	24740	0.744	ng	99
33) Chrysene	21.456	228	26737	0.750	ng	99
34) Bis(2-ethylhexyl)phtha...	21.349	149	6579	0.667	ng	98
36) Indeno(1,2,3-cd)pyrene	26.142	276	28614	0.729	ng	100
37) Benzo(b)fluoranthene	23.049	252	26965	0.733	ng	98
38) Benzo(k)fluoranthene	23.095	252	28034	0.748	ng	98
39) Benzo(a)pyrene	23.651	252	21496	0.730	ng	95
40) Dibenzo(a,h)anthracene	26.162	278	23010	0.735	ng	95
41) Benzo(g,h,i)perylene	26.867	276	25683	0.731	ng	98

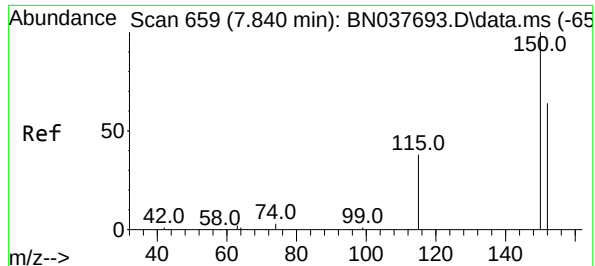
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037694.D
Acq On : 11 Sep 2025 11:44
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

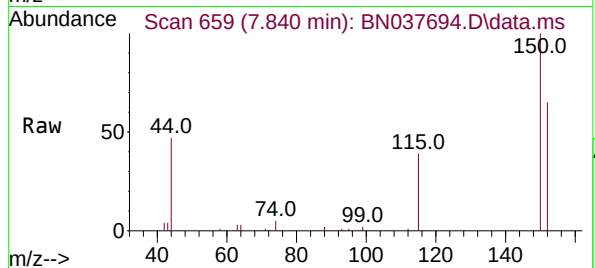
Quant Time: Sep 11 14:06:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration



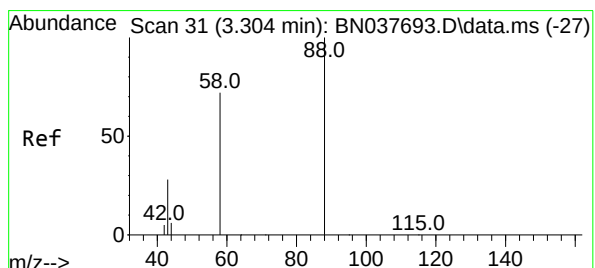
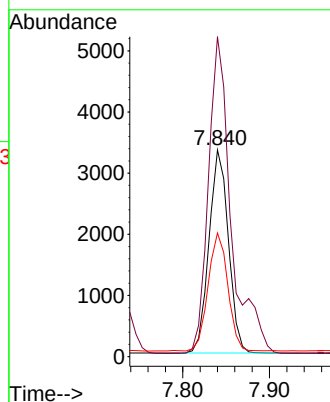
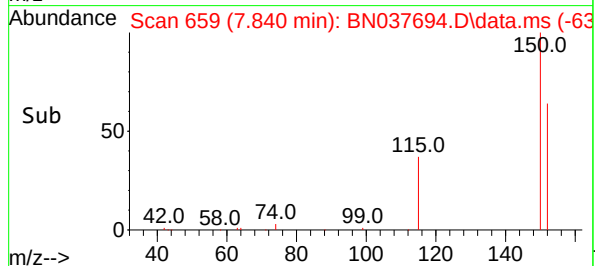


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

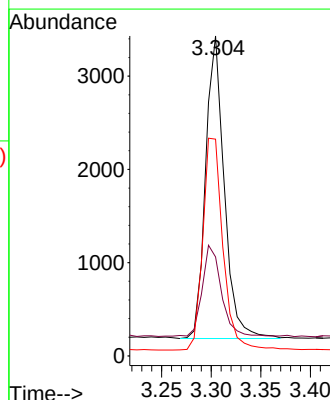
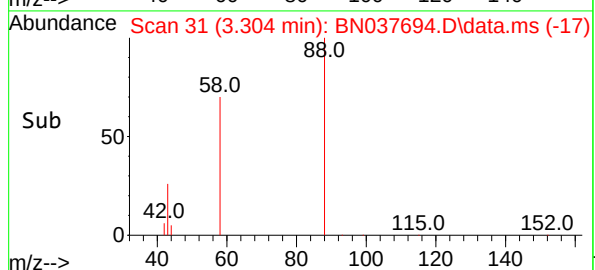
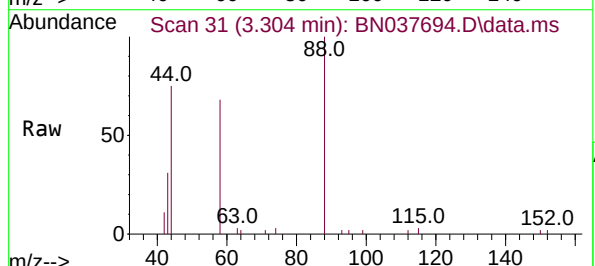


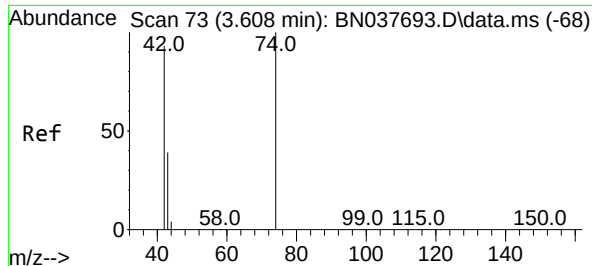
Tgt Ion:152 Resp: 5166
Ion Ratio Lower Upper
152 100
150 154.9 124.5 186.7
115 59.8 49.2 73.8



#2
1,4-Dioxane
Concen: 0.789 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion: 88 Resp: 4244
Ion Ratio Lower Upper
88 100
43 31.1 26.8 40.2
58 76.2 61.9 92.9

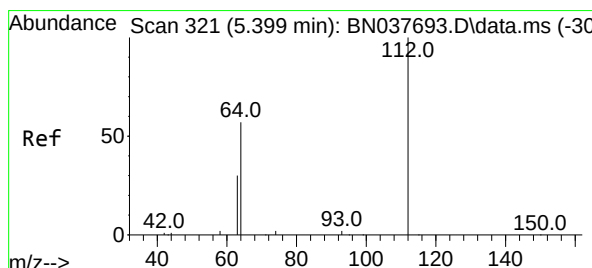
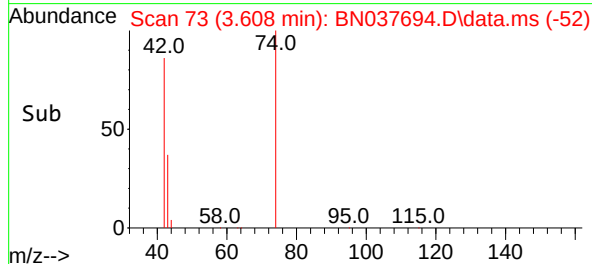
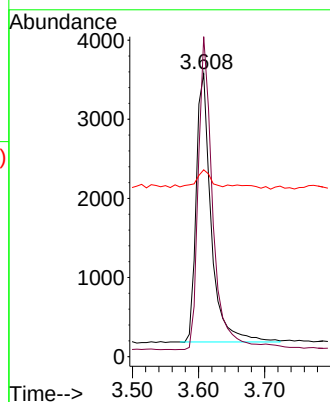
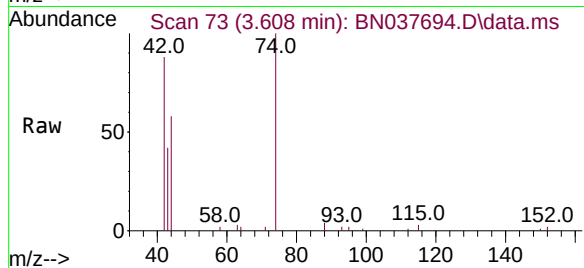




#3
n-Nitrosodimethylamine
Concen: 0.757 ng
RT: 3.608 min Scan# 73
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

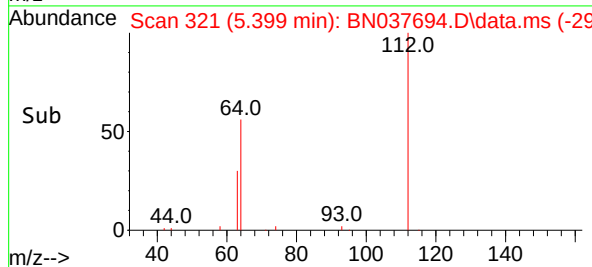
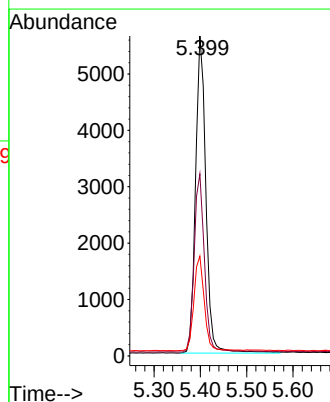
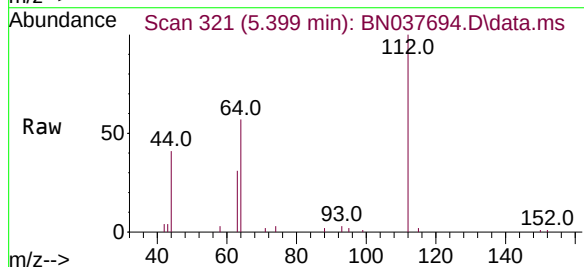
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

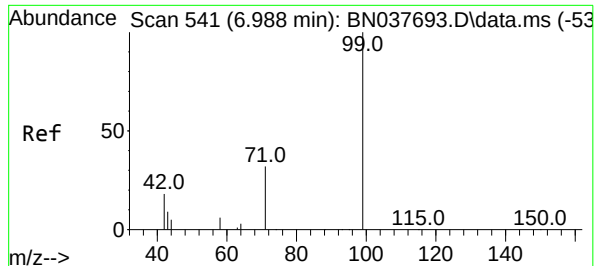
Tgt Ion: 42 Resp: 5321
Ion Ratio Lower Upper
42 100
74 114.4 86.0 129.0
44 6.9 8.4 12.6#



#4
2-Fluorophenol
Concen: 0.732 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion: 112 Resp: 8684
Ion Ratio Lower Upper
112 100
64 55.6 44.9 67.3
63 29.8 24.7 37.1

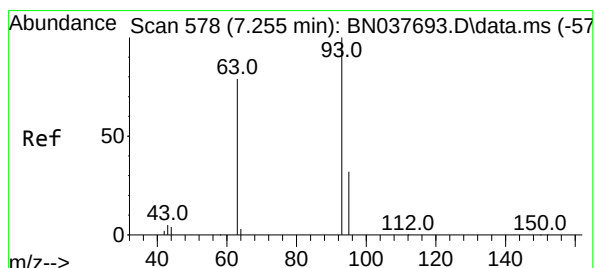
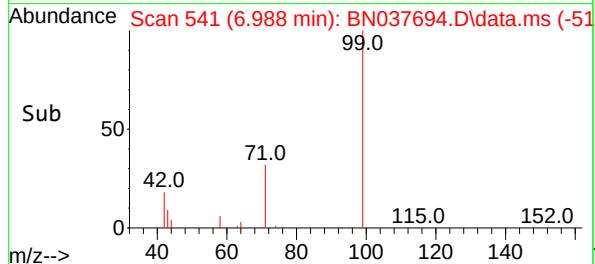
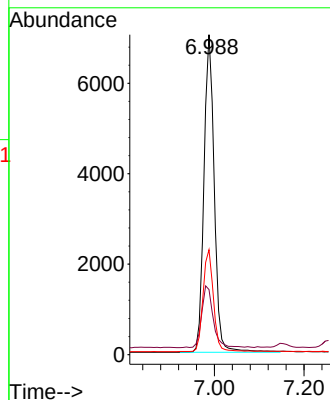
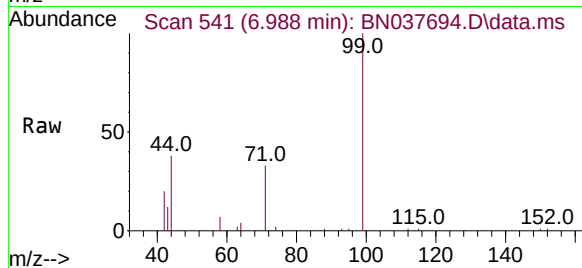




#5
Phenol-d6
Concen: 0.731 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

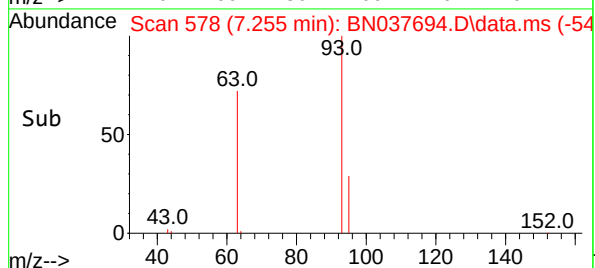
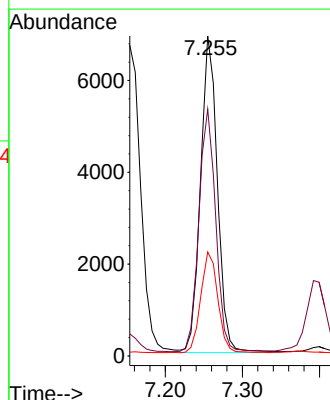
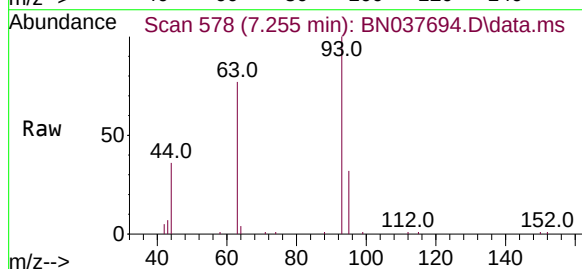
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

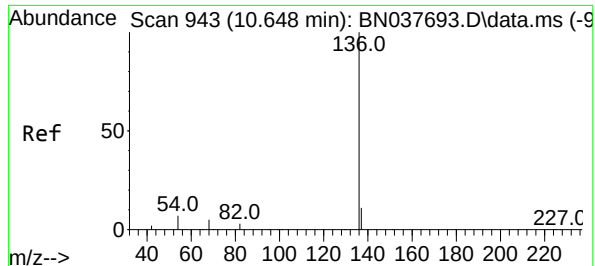
Tgt Ion: 99 Resp: 11241
Ion Ratio Lower Upper
99 100
42 21.6 16.6 24.8
71 32.6 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.766 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion: 93 Resp: 10526
Ion Ratio Lower Upper
93 100
63 76.1 60.6 90.8
95 32.1 26.0 39.0

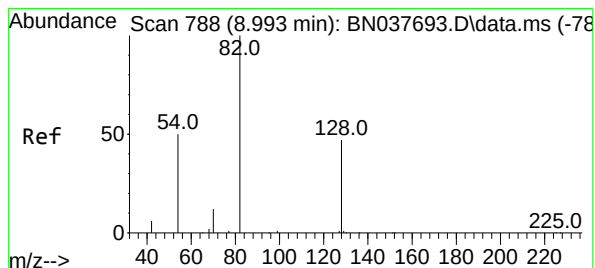
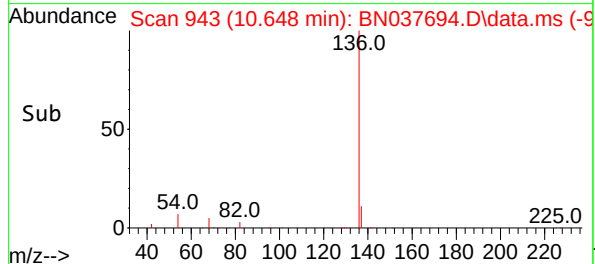
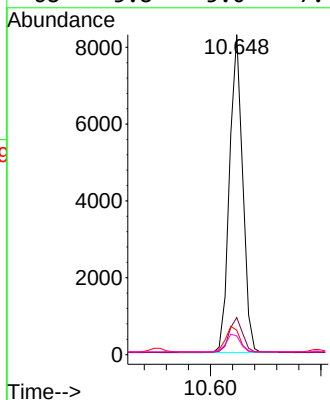
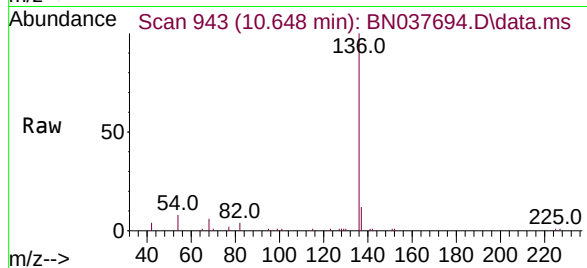




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

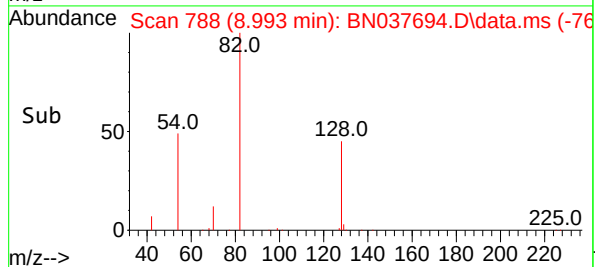
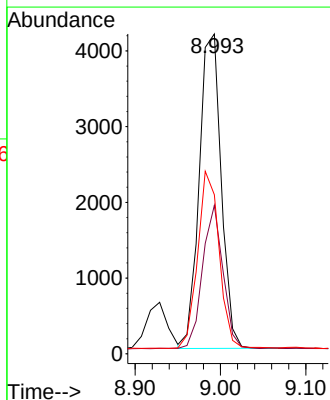
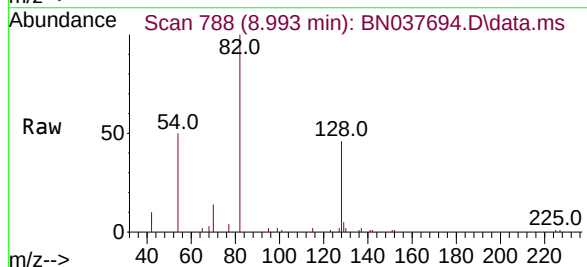
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

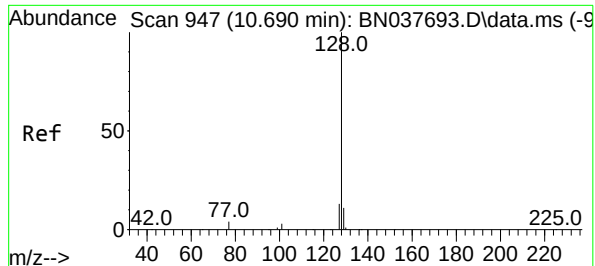
Tgt Ion:	136	Resp:	13664
Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.1	13.7
54	7.6	6.3	9.5
68	5.8	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.744 ng
RT: 8.993 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:	82	Resp:	7438
Ion	Ratio	Lower	Upper
82	100		
128	46.4	38.3	57.5
54	49.7	41.4	62.2

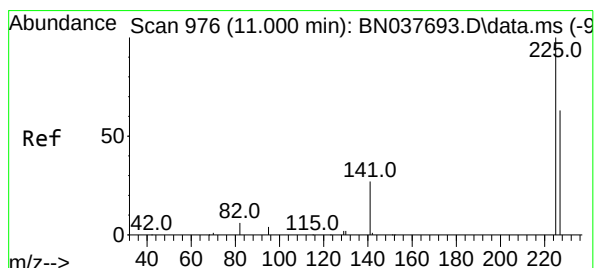
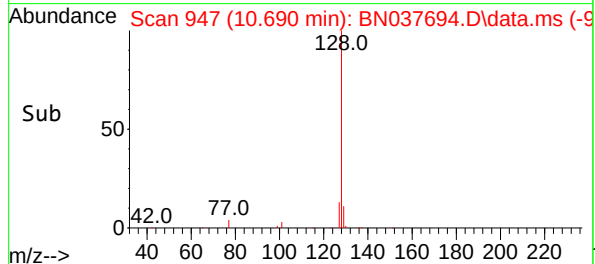
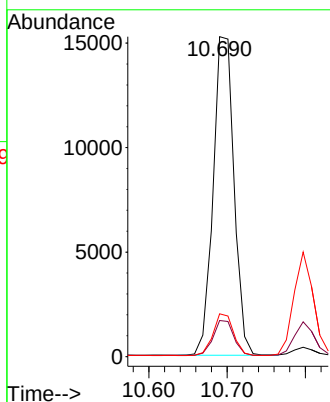
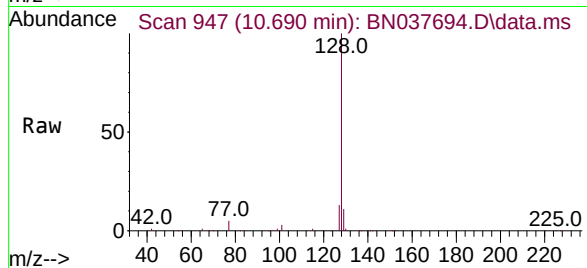




#9
Naphthalene
Concen: 0.758 ng
RT: 10.690 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

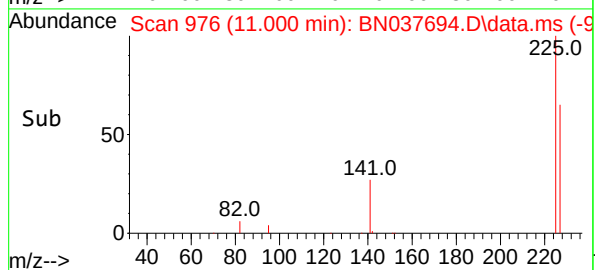
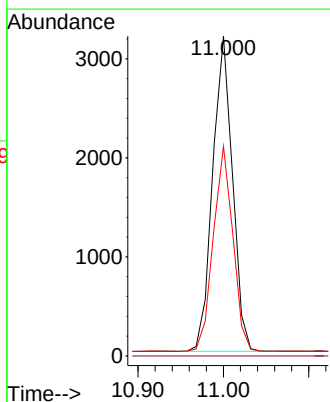
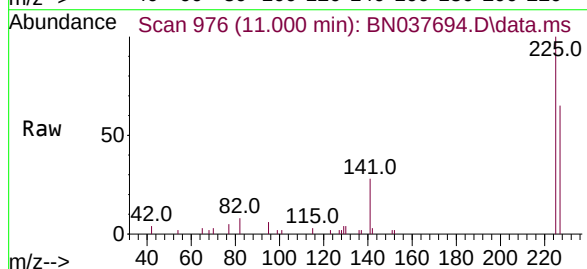
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

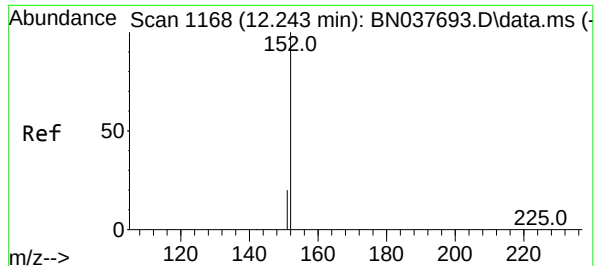
Tgt Ion:128 Resp: 28311
Ion Ratio Lower Upper
128 100
129 11.3 9.1 13.7
127 13.4 10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.764 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:225 Resp: 5165
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.3 50.9 76.3

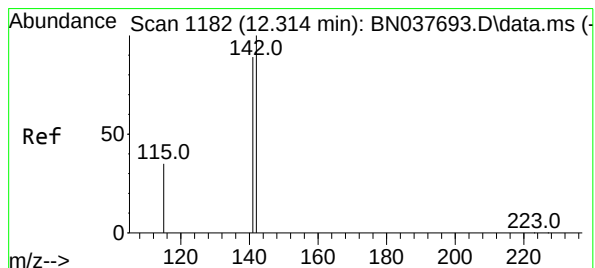
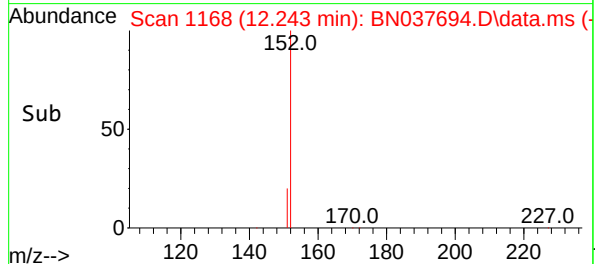
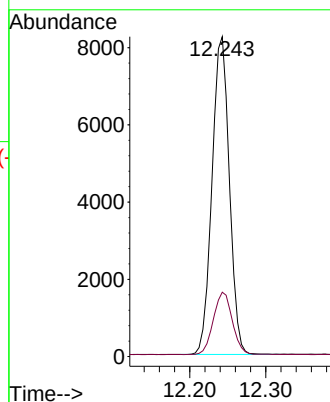
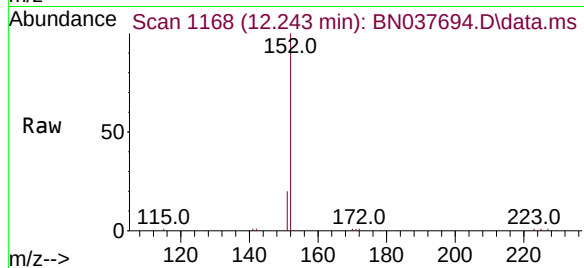




#11
2-Methylnaphthalene-d10
Concen: 0.721 ng
RT: 12.243 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

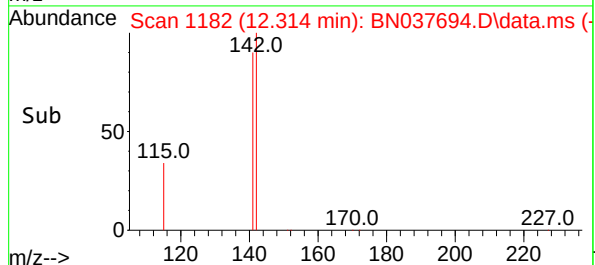
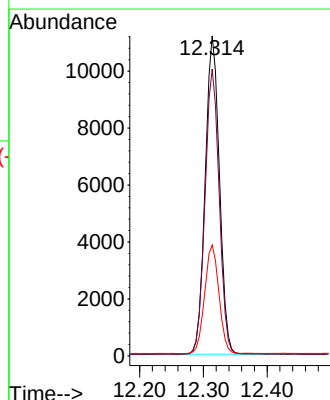
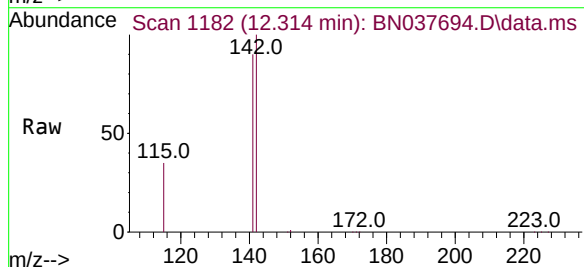
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

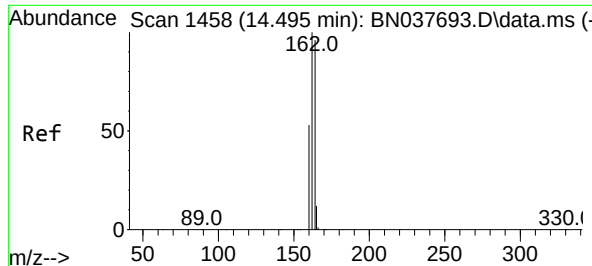
Tgt Ion:152 Resp: 13053
Ion Ratio Lower Upper
152 100
151 21.5 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.749 ng
RT: 12.314 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:142 Resp: 17311
Ion Ratio Lower Upper
142 100
141 89.6 71.6 107.4
115 34.6 28.6 43.0

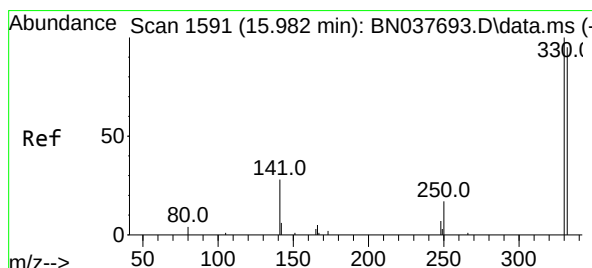
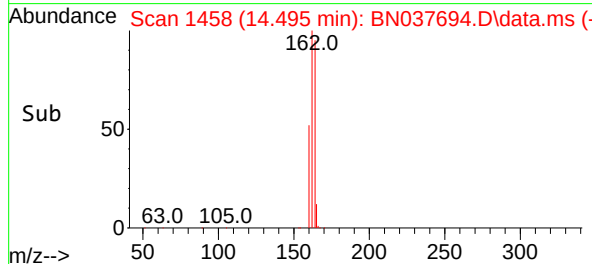
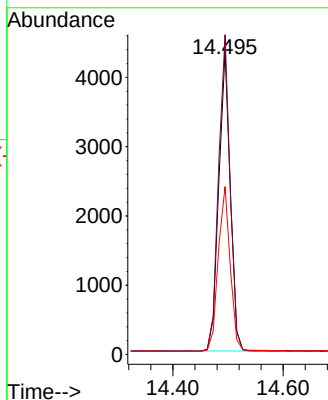
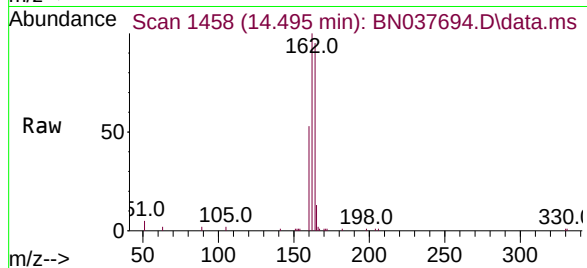




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

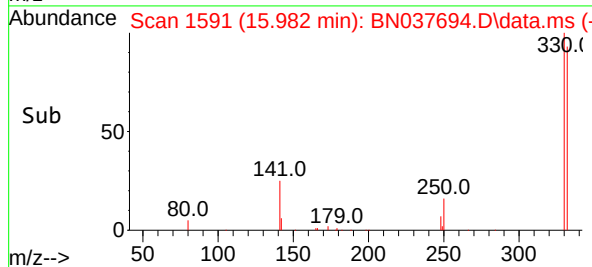
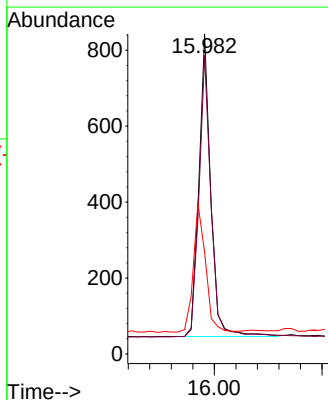
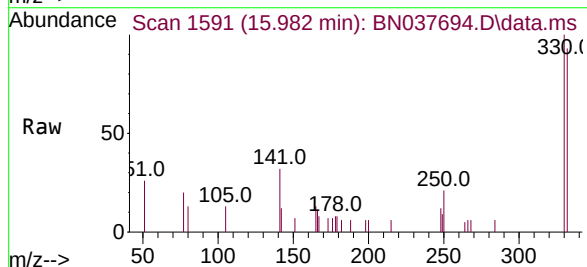
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

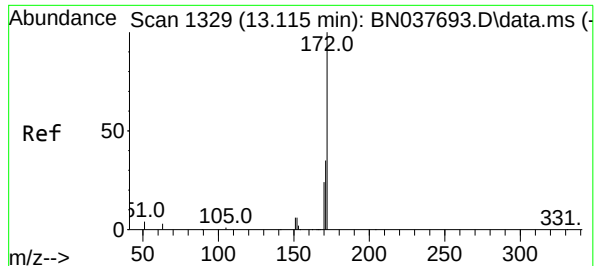
Tgt Ion	164	Resp:	6297
Ion	Ratio	Lower	Upper
164	100		
162	105.3	83.1	124.7
160	55.3	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.737 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion	330	Resp:	1211
Ion	Ratio	Lower	Upper
330	100		
332	95.7	75.3	112.9
141	43.4	35.0	52.4

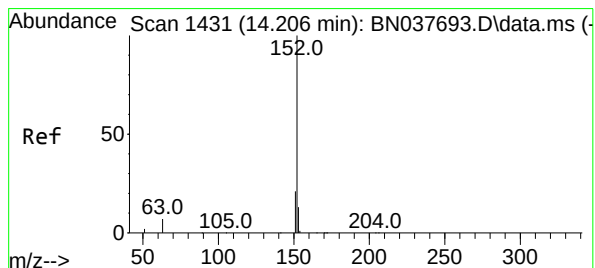
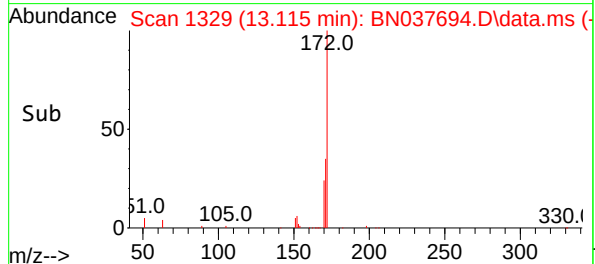
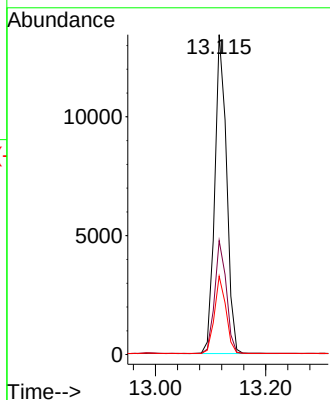
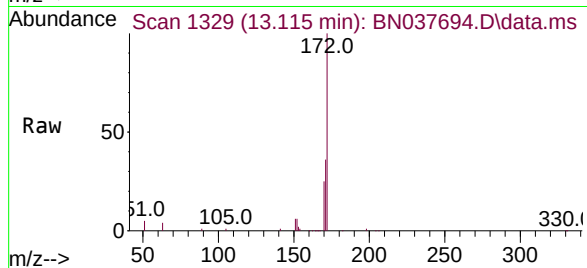




#15
2-Fluorobiphenyl
Concen: 0.758 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

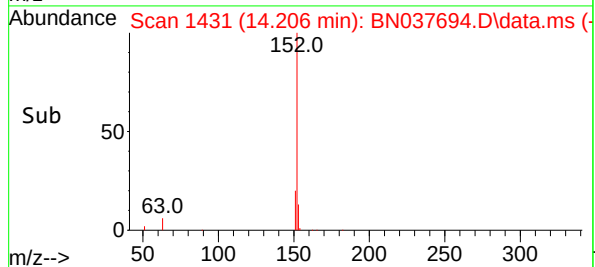
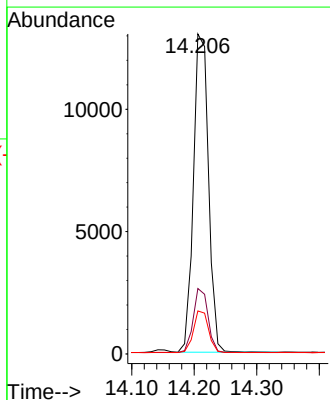
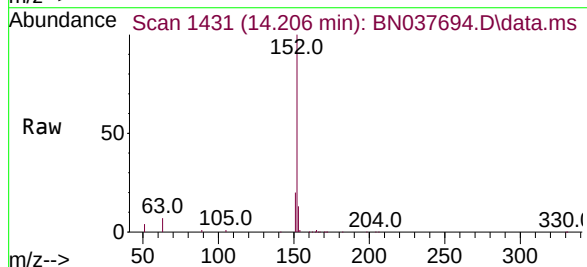
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

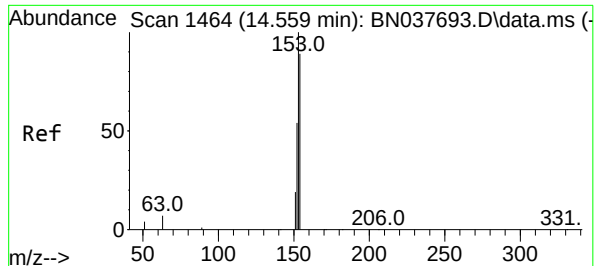
Tgt Ion:172 Resp: 19971
Ion Ratio Lower Upper
172 100
171 35.6 28.6 43.0
170 24.5 19.8 29.8



#16
Acenaphthylene
Concen: 0.753 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:152 Resp: 21746
Ion Ratio Lower Upper
152 100
151 19.8 16.2 24.2
153 13.1 10.4 15.6

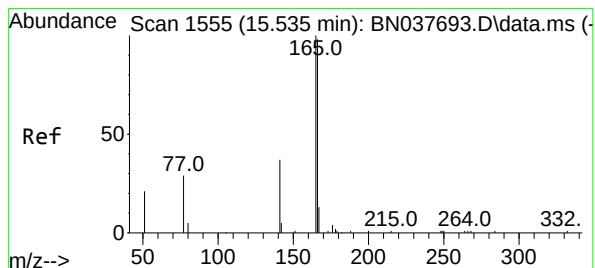
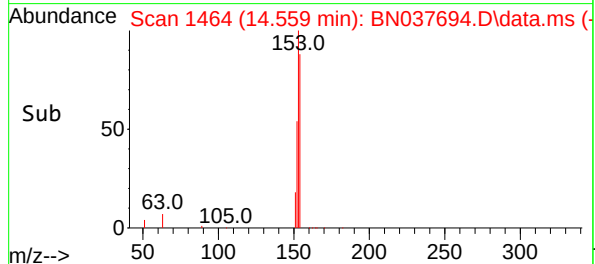
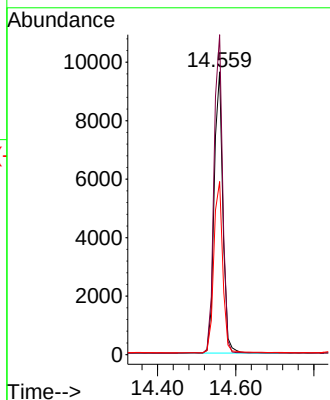
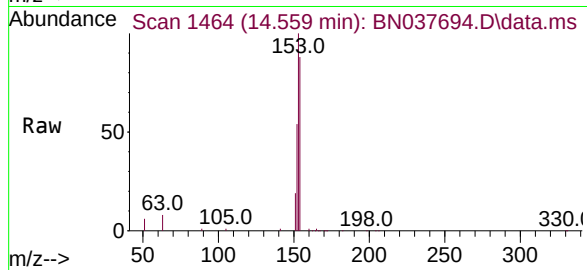




#17
Acenaphthene
Concen: 0.765 ng
RT: 14.559 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

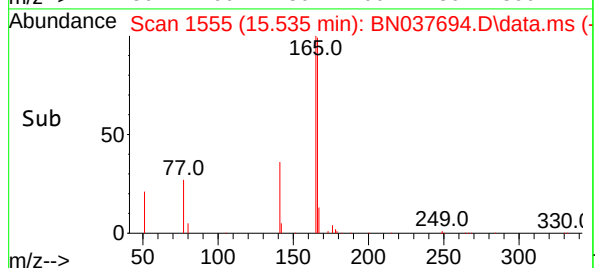
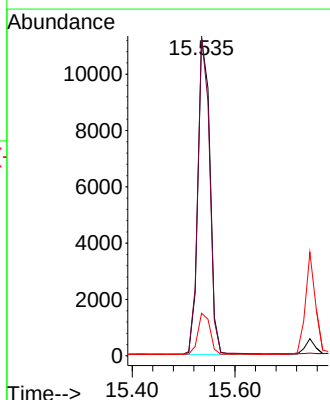
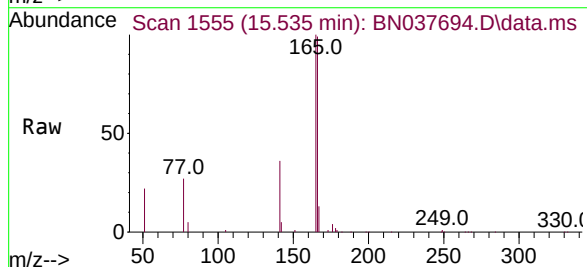
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

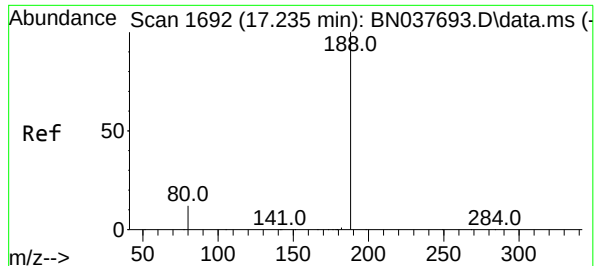
Tgt Ion:154 Resp: 14943
Ion Ratio Lower Upper
154 100
153 112.2 89.8 134.8
152 62.5 50.2 75.2



#18
Fluorene
Concen: 0.756 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:166 Resp: 17870
Ion Ratio Lower Upper
166 100
165 96.2 79.6 119.4
167 13.0 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

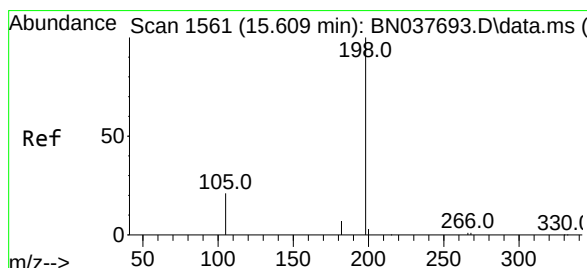
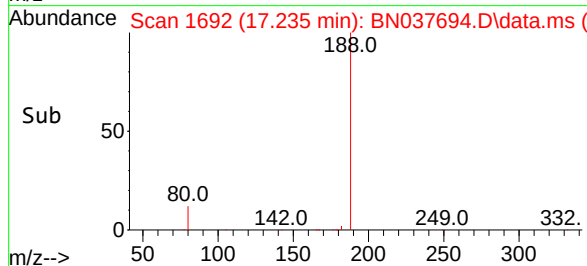
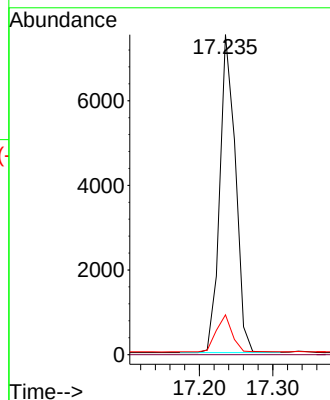
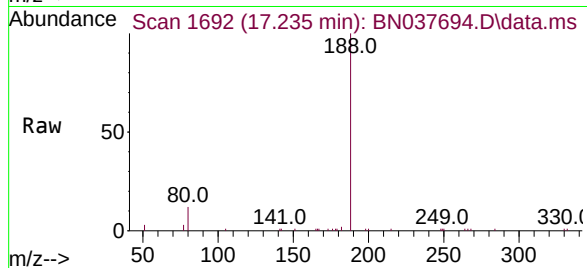
Tgt Ion:188 Resp: 11247

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.4 10.6 15.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.721 ng

RT: 15.609 min Scan# 1561

Delta R.T. 0.000 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

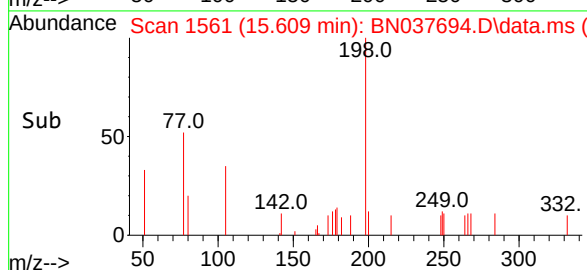
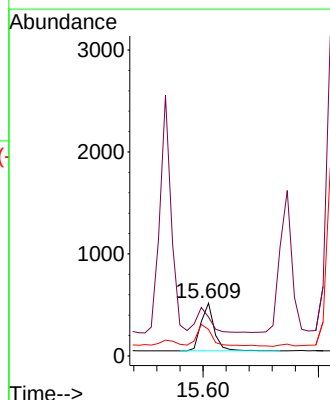
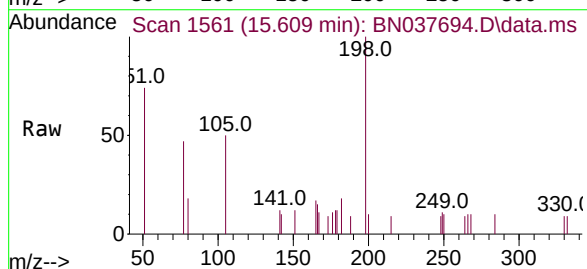
Tgt Ion:198 Resp: 751

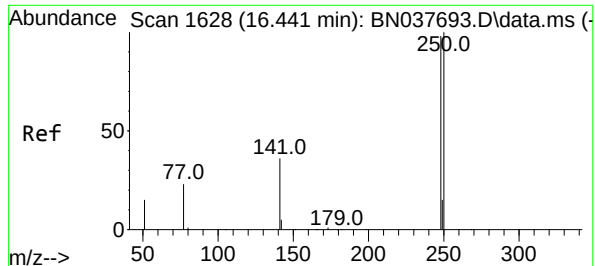
Ion Ratio Lower Upper

198 100

51 73.7 95.1 142.7#

105 50.3 53.8 80.6#

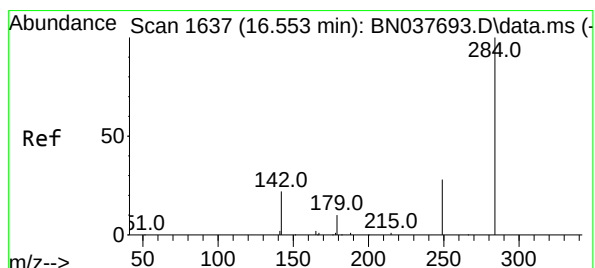
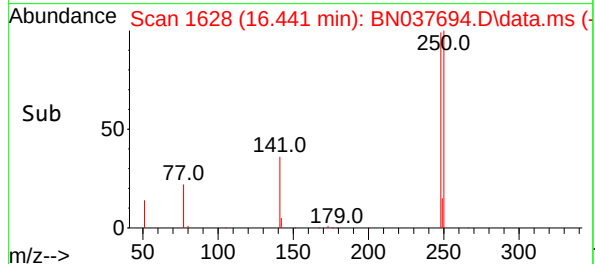
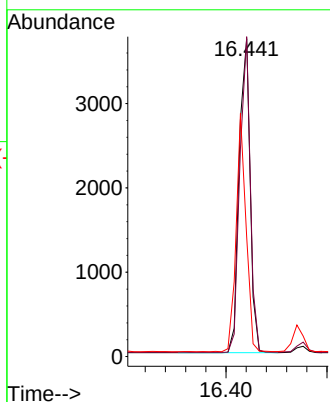
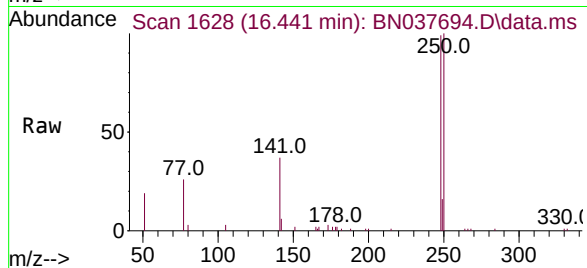




#21
4-Bromophenyl-phenylether
Concen: 0.760 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

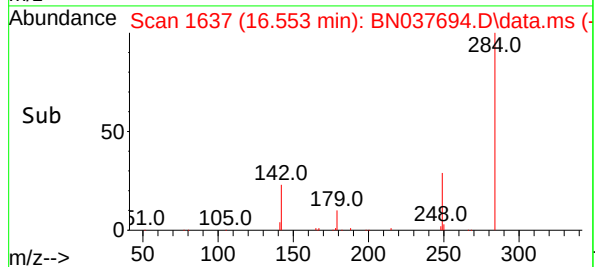
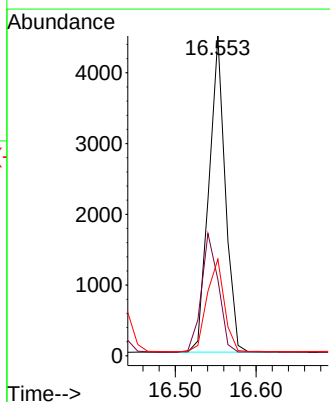
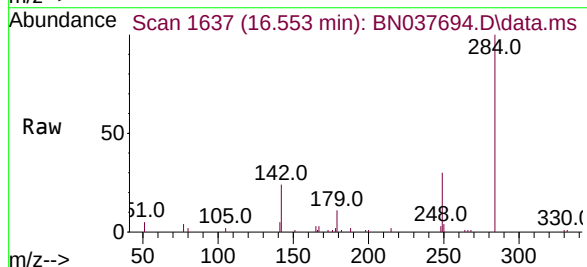
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

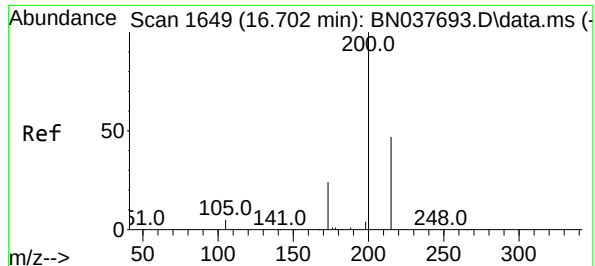
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.6	81.5	122.3
141	37.7	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.747 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.1	30.9	46.3
249	31.2	24.8	37.2

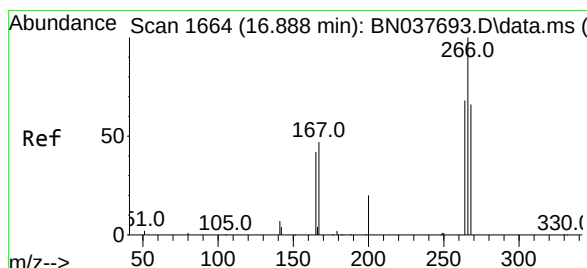
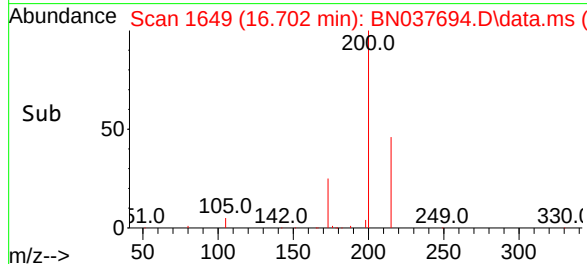
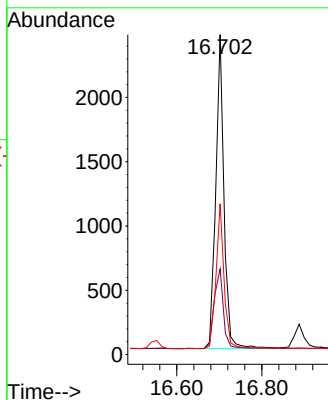
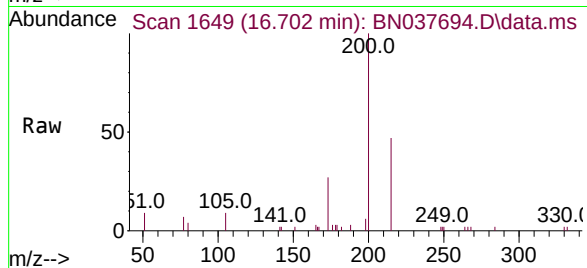




#23
Atrazine
Concen: 0.705 ng
RT: 16.702 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

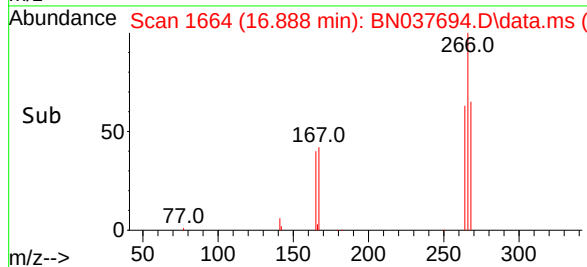
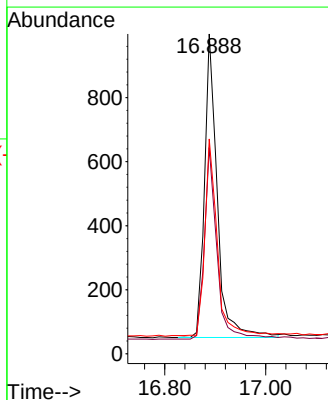
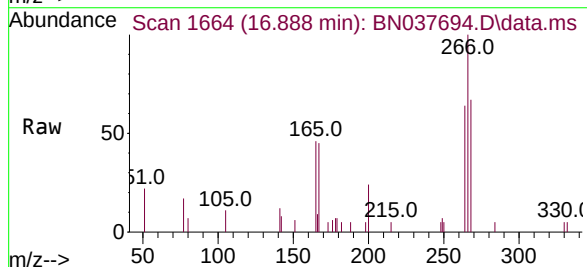
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

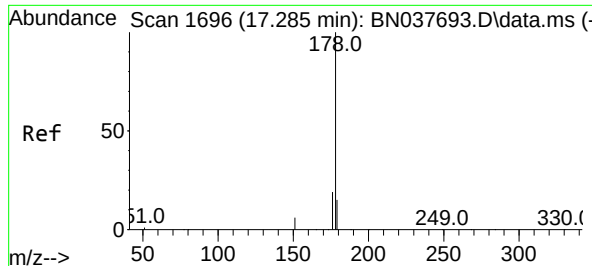
Tgt Ion	200	Resp:	3288
Ion Ratio	Lower	Upper	
200	100		
173	26.8	21.4	32.2
215	47.1	39.2	58.8



#24
Pentachlorophenol
Concen: 0.674 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion	266	Resp:	1652
Ion Ratio	Lower	Upper	
266	100		
264	61.9	51.6	77.4
268	64.7	53.2	79.8

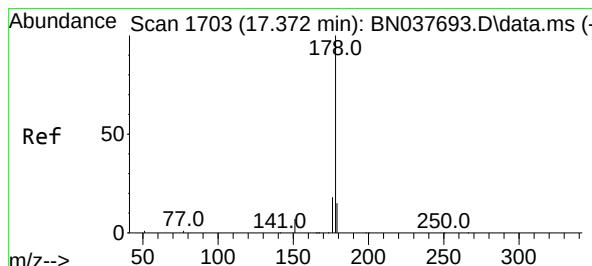
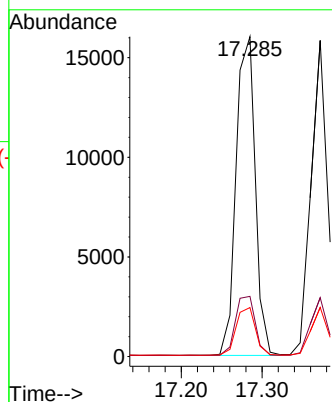
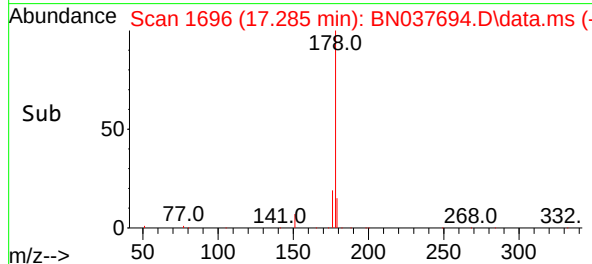
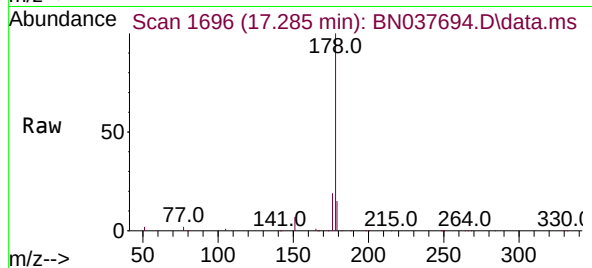




#25
Phenanthrene
Concen: 0.745 ng
RT: 17.285 min Scan# 1696
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

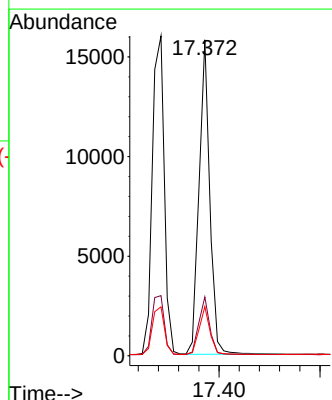
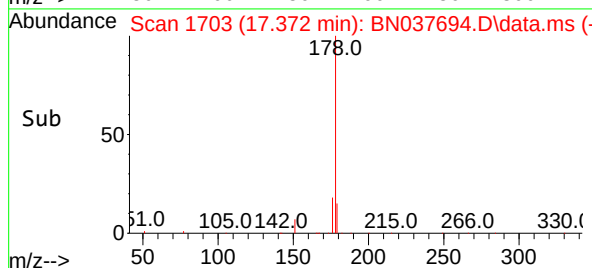
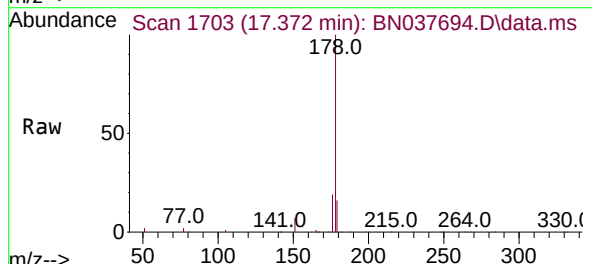
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

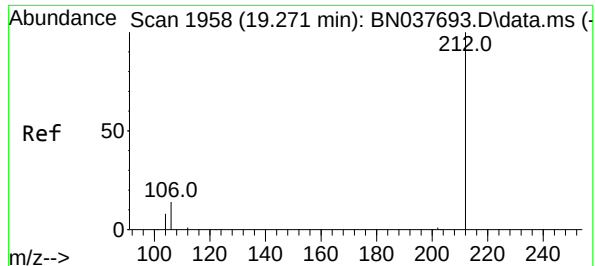
Tgt Ion:178 Resp: 26380
Ion Ratio Lower Upper
178 100
176 19.3 15.3 22.9
179 15.1 12.2 18.2



#26
Anthracene
Concen: 0.739 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:178 Resp: 23177
Ion Ratio Lower Upper
178 100
176 18.5 14.6 22.0
179 15.2 12.2 18.4





#27

Fluoranthene-d10

Concen: 0.704 ng

RT: 19.271 min Scan# 1958

Delta R.T. -0.000 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

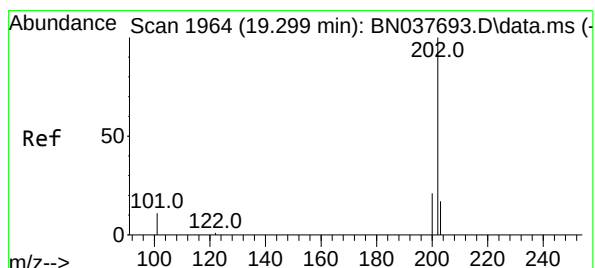
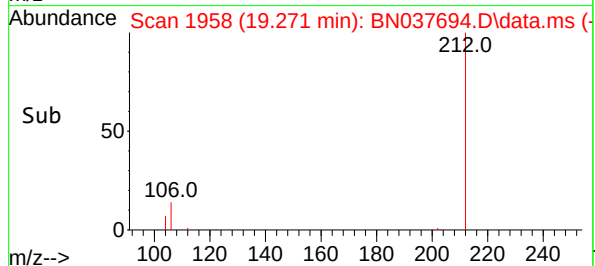
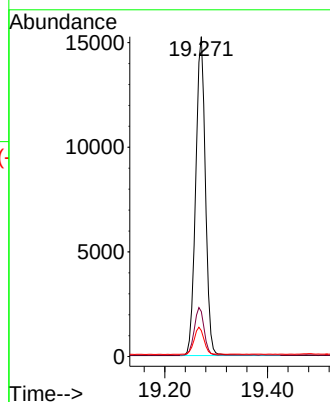
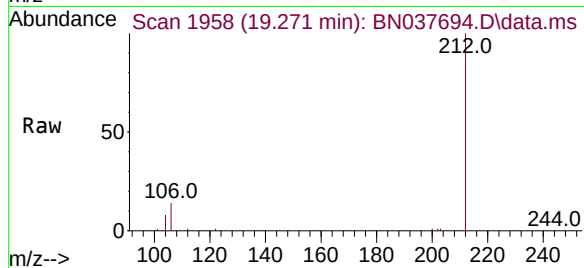
Tgt Ion:212 Resp: 19870

Ion Ratio Lower Upper

212 100

106 15.2 12.2 18.2

104 8.8 6.9 10.3



#28

Fluoranthene

Concen: 0.735 ng

RT: 19.299 min Scan# 1964

Delta R.T. -0.000 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

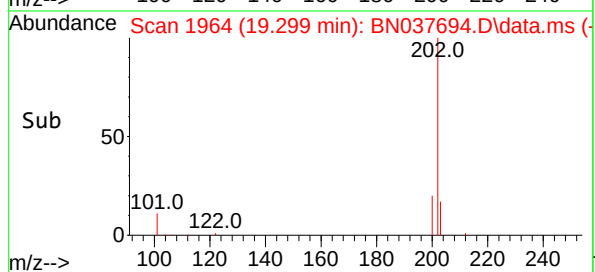
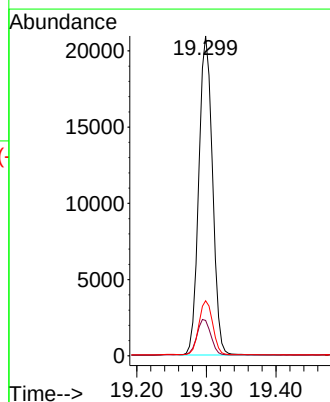
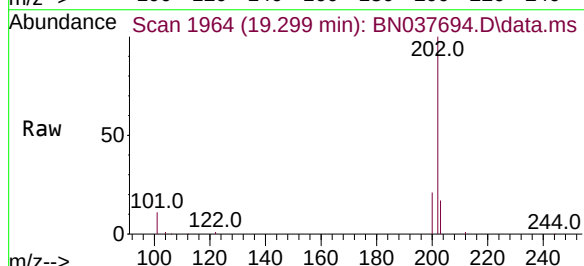
Tgt Ion:202 Resp: 28541

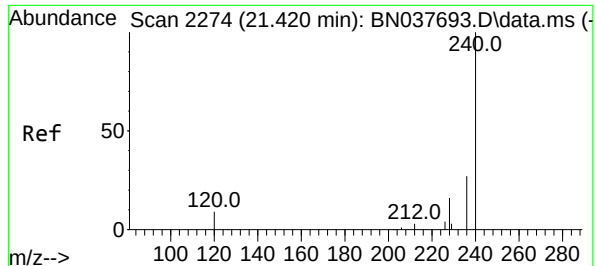
Ion Ratio Lower Upper

202 100

101 11.5 9.3 13.9

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.420 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

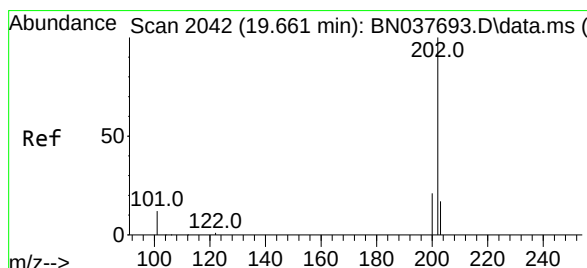
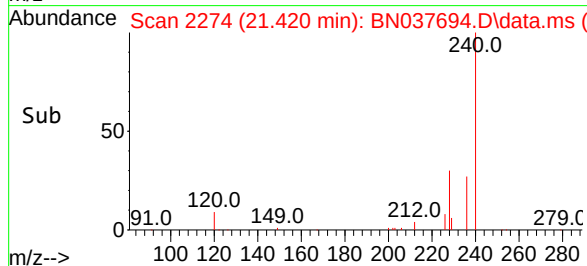
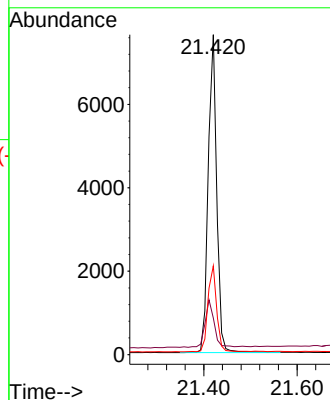
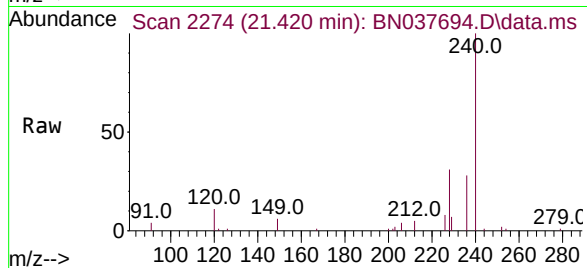
Tgt Ion:240 Resp: 9536

Ion Ratio Lower Upper

240 100

120 11.4 9.2 13.8

236 27.7 22.6 33.8



#30

Pyrene

Concen: 0.752 ng

RT: 19.661 min Scan# 2042

Delta R.T. -0.000 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

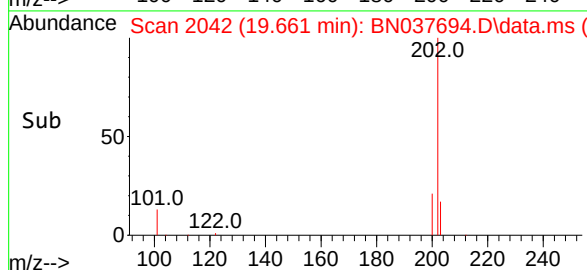
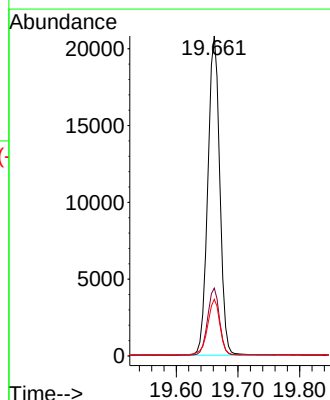
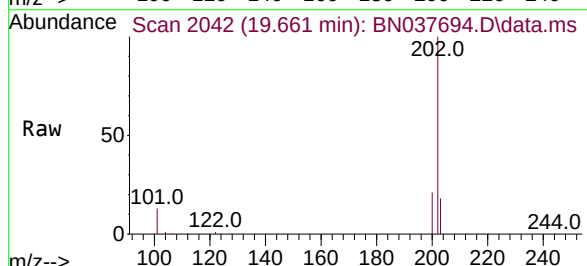
Tgt Ion:202 Resp: 28089

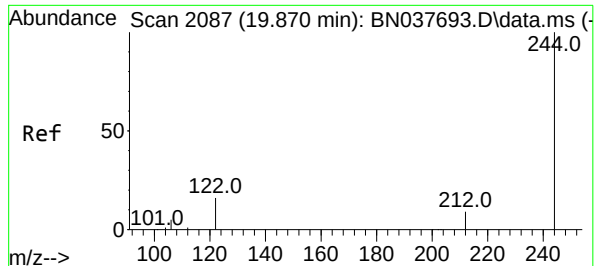
Ion Ratio Lower Upper

202 100

200 20.9 16.8 25.2

203 17.8 14.3 21.5

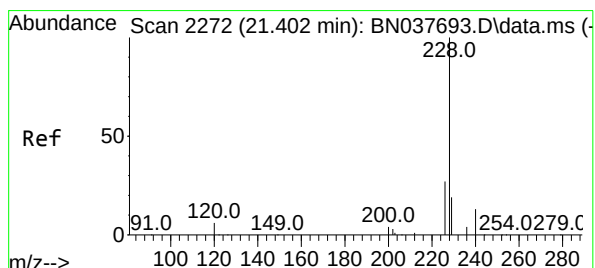
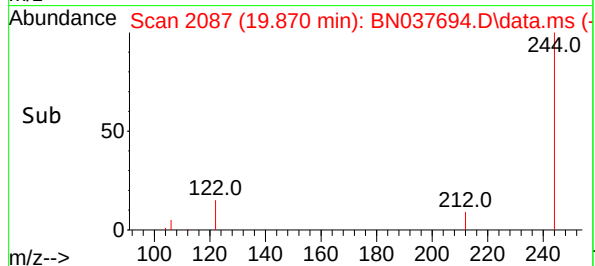
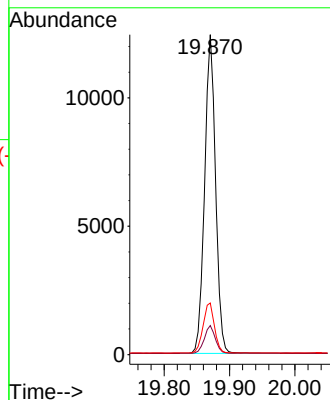
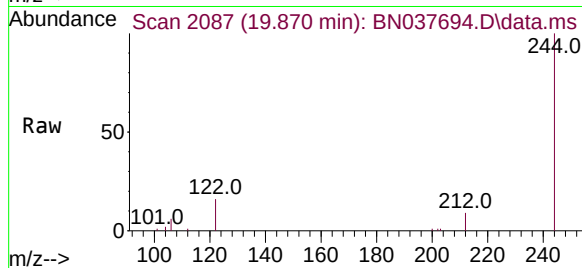




#31
Terphenyl-d14
Concen: 0.743 ng
RT: 19.870 min Scan# 2087
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

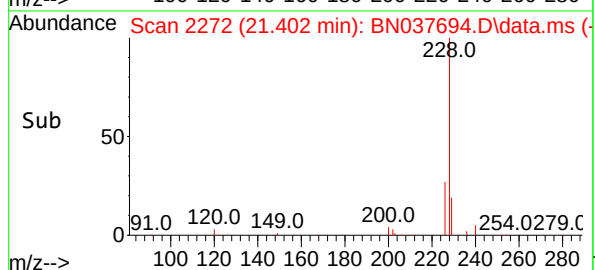
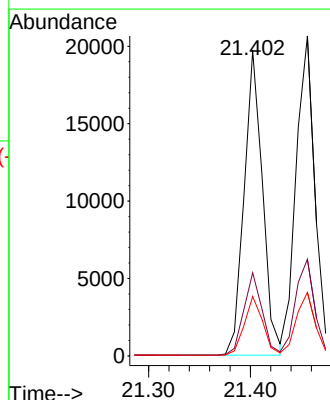
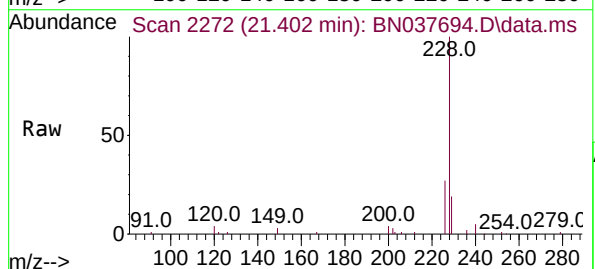
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

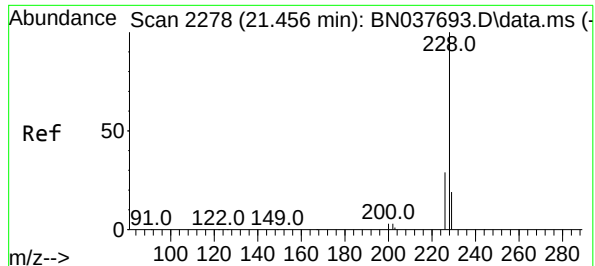
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.1	7.5	11.3
122	16.1	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.744 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.2	33.2
229	19.5	15.8	23.6





#33

Chrysene

Concen: 0.750 ng

RT: 21.456 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

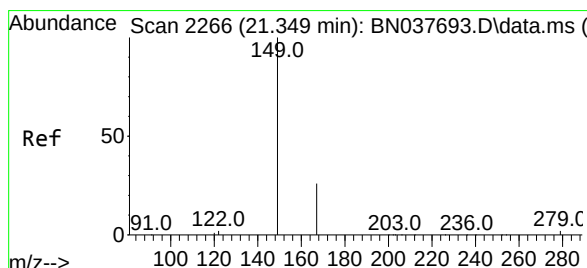
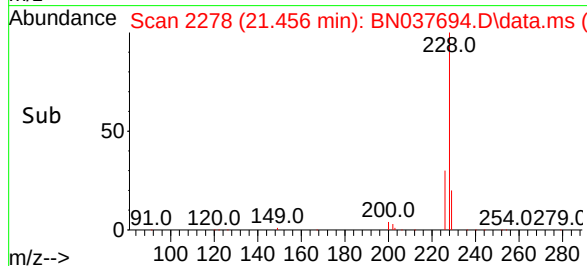
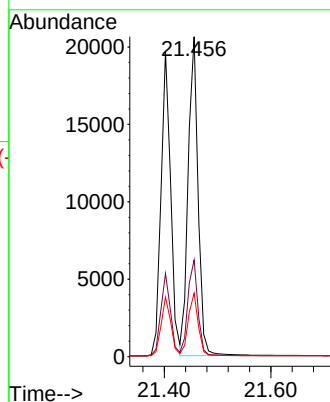
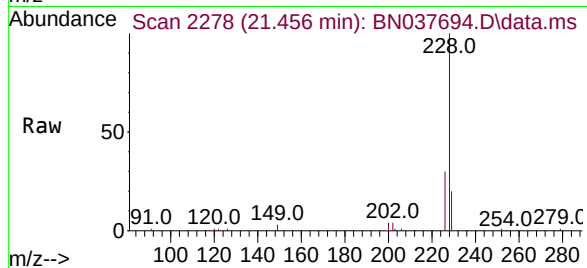
Tgt Ion:228 Resp: 26737

Ion Ratio Lower Upper

228 100

226 30.2 23.5 35.3

229 19.8 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.667 ng

RT: 21.349 min Scan# 2266

Delta R.T. -0.000 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

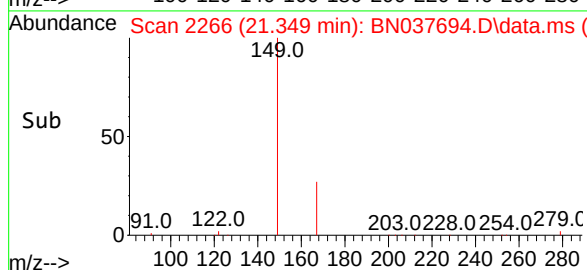
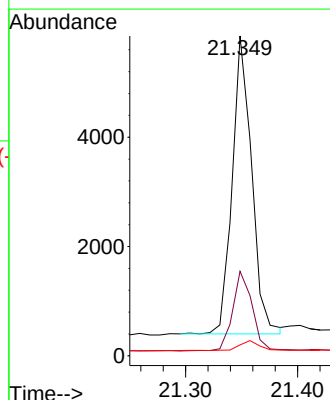
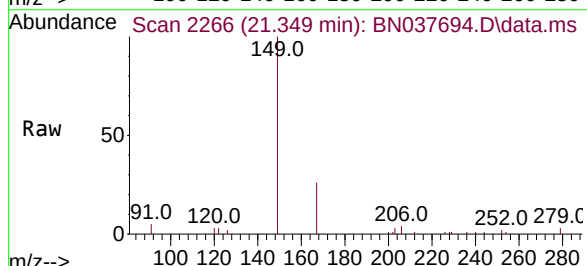
Tgt Ion:149 Resp: 6579

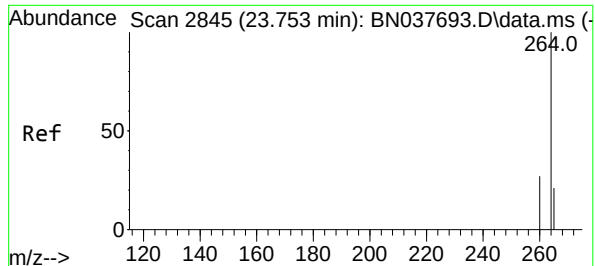
Ion Ratio Lower Upper

149 100

167 27.1 20.8 31.2

279 3.3 3.3 4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.753 min Scan# 2845

Delta R.T. -0.000 min

Lab File: BN037694.D

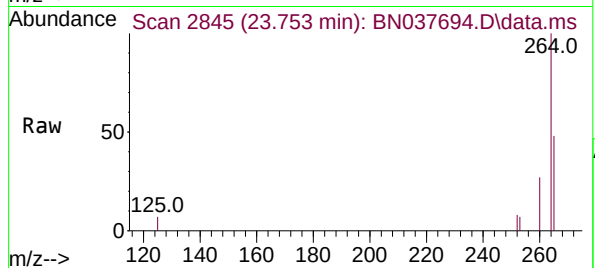
Acq: 11 Sep 2025 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



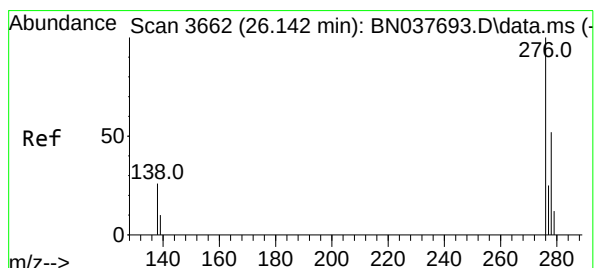
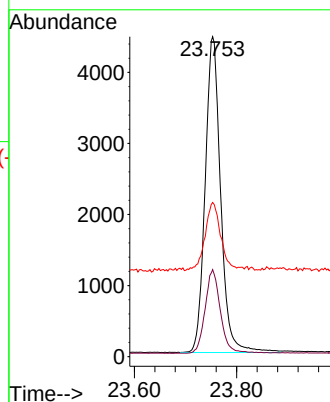
Tgt Ion:264 Resp: 9336

Ion Ratio Lower Upper

264 100

260 27.2 21.8 32.8

265 48.2 39.4 59.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.729 ng

RT: 26.142 min Scan# 3662

Delta R.T. -0.000 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

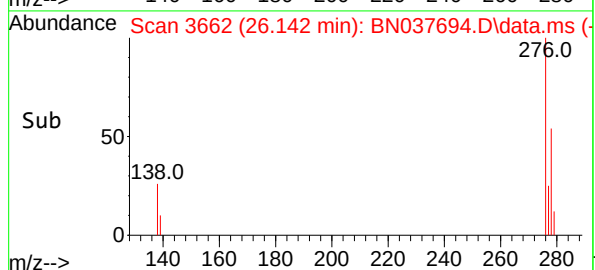
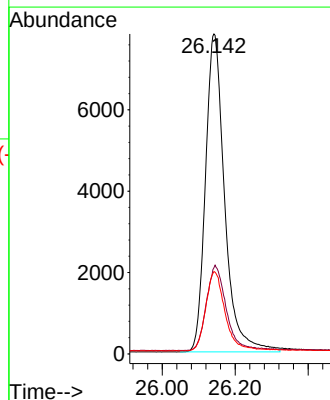
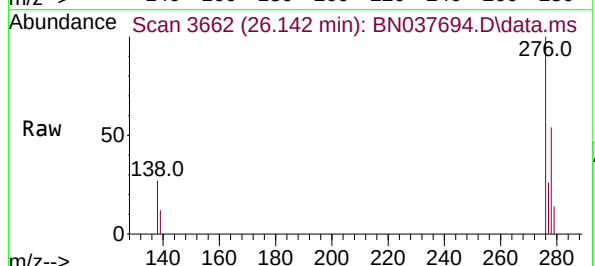
Tgt Ion:276 Resp: 28614

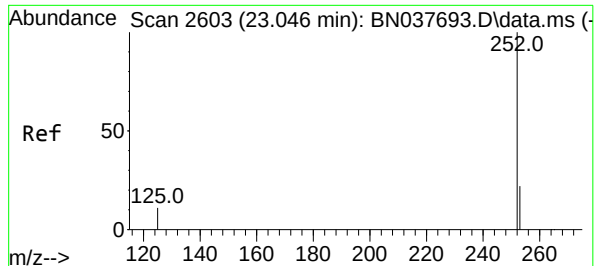
Ion Ratio Lower Upper

276 100

138 27.5 21.9 32.9

277 25.0 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.733 ng

RT: 23.049 min Scan# 2604

Delta R.T. 0.003 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

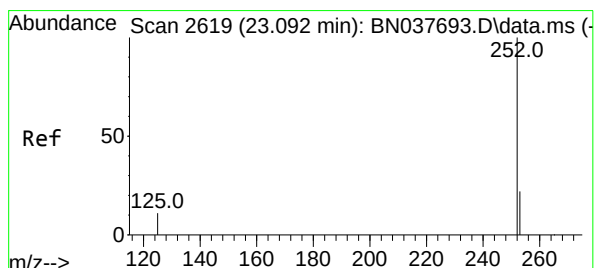
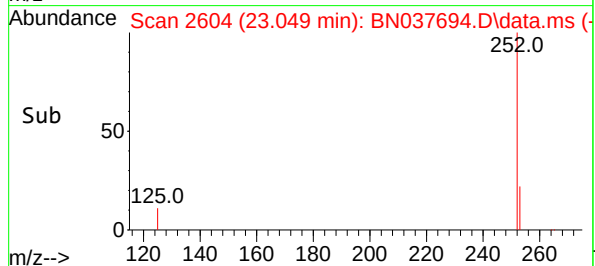
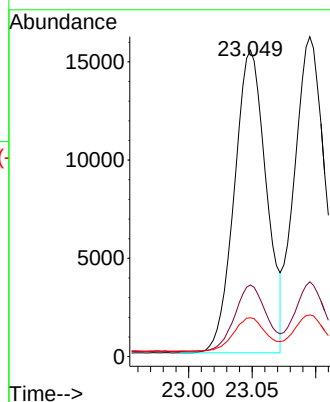
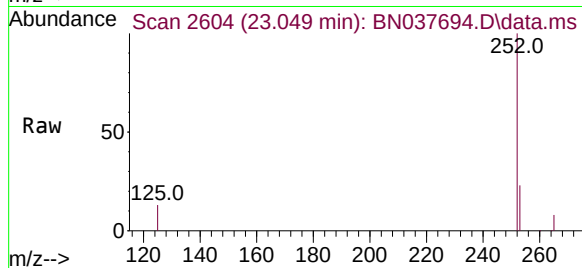
Tgt Ion:252 Resp: 26965

Ion Ratio Lower Upper

252 100

253 23.4 19.4 29.2

125 12.7 11.2 16.8



#38

Benzo(k)fluoranthene

Concen: 0.748 ng

RT: 23.095 min Scan# 2620

Delta R.T. 0.003 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

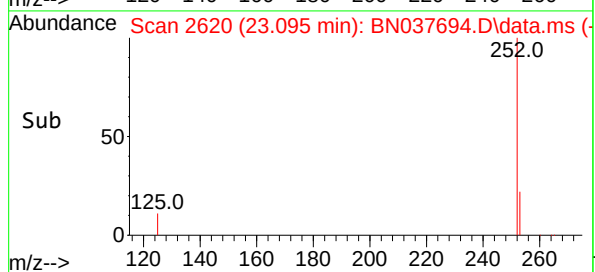
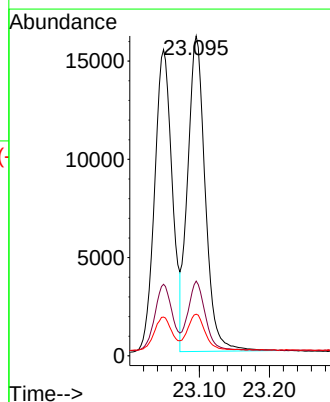
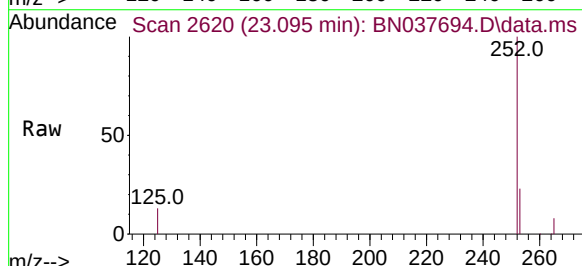
Tgt Ion:252 Resp: 28034

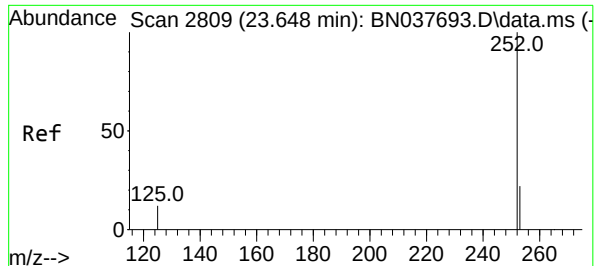
Ion Ratio Lower Upper

252 100

253 23.4 19.4 29.0

125 13.0 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.730 ng

RT: 23.651 min Scan# 2810

Delta R.T. 0.003 min

Lab File: BN037694.D

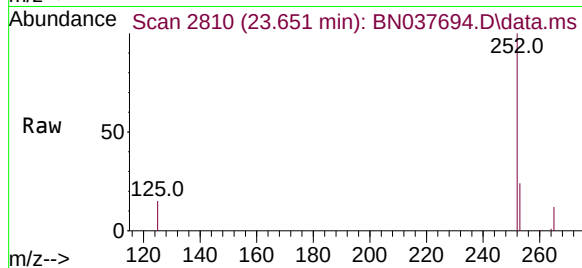
Acq: 11 Sep 2025 11:44

Instrument :

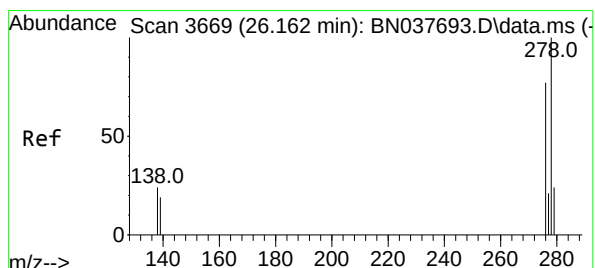
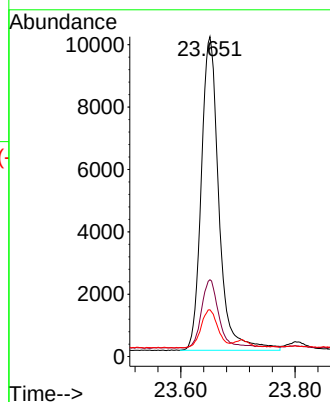
BNA_N

ClientSampleId :

SSTDICC0.8



Tgt Ion:	252	Resp:	21496
Ion Ratio	Lower	Upper	
252	100		
253	24.0	20.8	31.2
125	14.6	13.9	20.9



#40

Dibenzo(a,h)anthracene

Concen: 0.735 ng

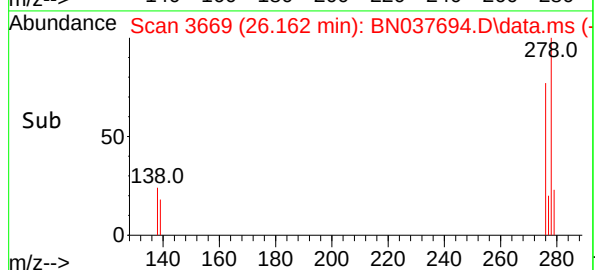
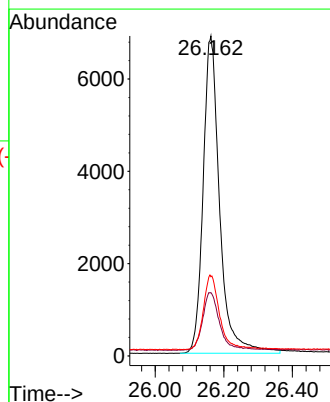
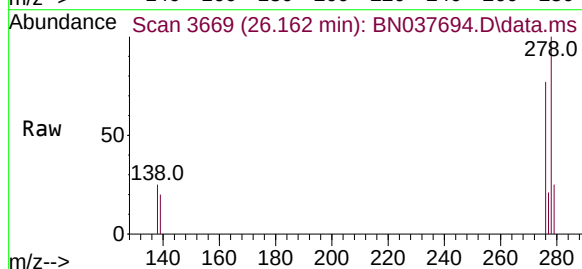
RT: 26.162 min Scan# 3669

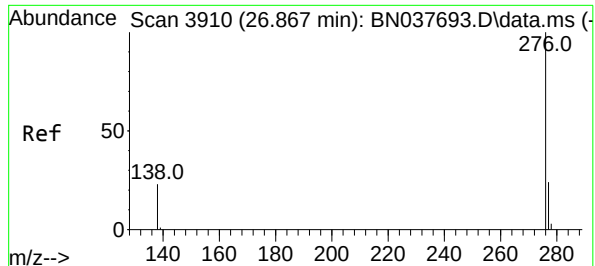
Delta R.T. -0.000 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

Tgt Ion:	278	Resp:	23010
Ion Ratio	Lower	Upper	
278	100		
139	19.8	17.8	26.6
279	24.7	22.0	33.0





#41

Benzo(g,h,i)perylene

Concen: 0.731 ng

RT: 26.867 min Scan# 3910

Delta R.T. -0.000 min

Lab File: BN037694.D

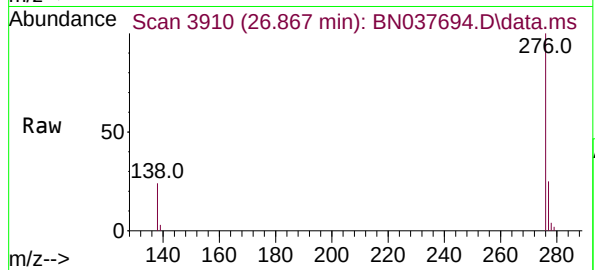
Acq: 11 Sep 2025 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



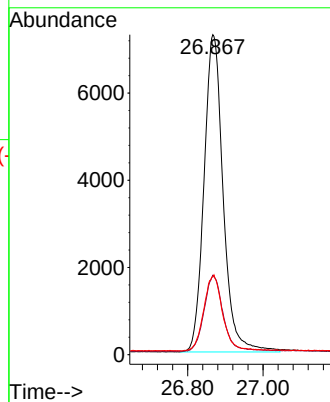
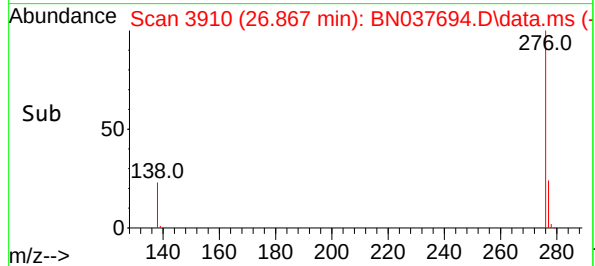
Tgt Ion:276 Resp: 25683

Ion Ratio Lower Upper

276 100

277 24.8 20.6 31.0

138 24.3 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
 Data File : BN037695.D
 Acq On : 11 Sep 2025 12:20
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Sep 11 14:06:54 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:02:44 2025
 Response via : Initial Calibration

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

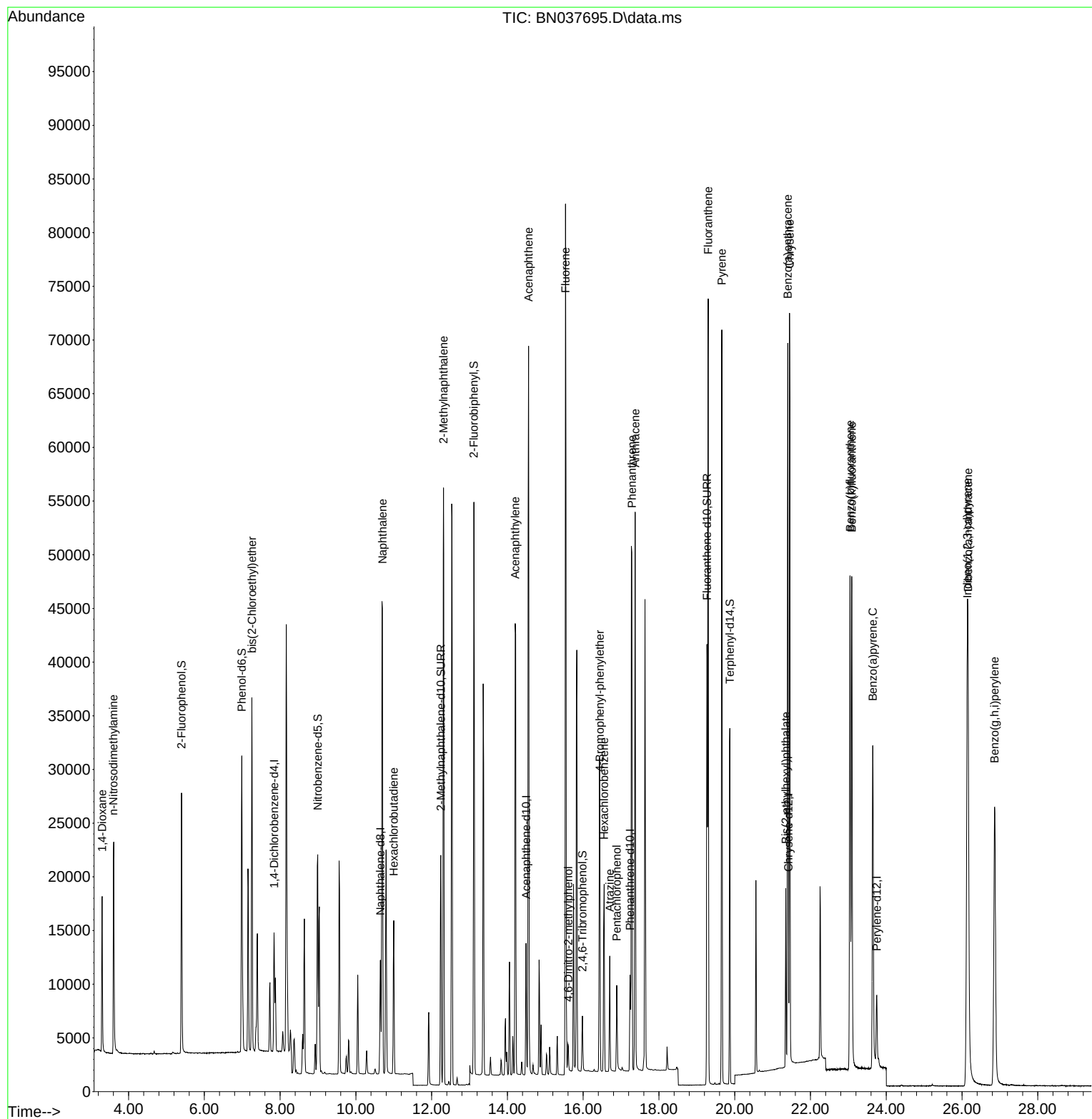
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	5277	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	13818	0.400	ng	0.00
13) Acenaphthene-d10	14.495	164	6567	0.400	ng	0.00
19) Phenanthrene-d10	17.236	188	11496	0.400	ng	0.00
29) Chrysene-d12	21.420	240	9743	0.400	ng	0.00
35) Perylene-d12	23.750	264	9111	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	19252	1.589	ng	0.00
5) Phenol-d6	6.988	99	25180	1.603	ng	0.00
8) Nitrobenzene-d5	8.993	82	16386	1.621	ng	0.00
11) 2-Methylnaphthalene-d10	12.243	152	28843	1.576	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	2959	1.728	ng	0.00
15) 2-Fluorobiphenyl	13.116	172	44363	1.615	ng	0.00
27) Fluoranthene-d10	19.267	212	43876	1.520	ng	0.00
31) Terphenyl-d14	19.871	244	31656	1.601	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.305	88	9125	1.660	ng	98
3) n-Nitrosodimethylamine	3.601	42	11726	1.633	ng	# 96
6) bis(2-Chloroethyl)ether	7.255	93	22759	1.622	ng	99
9) Naphthalene	10.701	128	61726	1.634	ng	99
10) Hexachlorobutadiene	11.000	225	11208	1.640	ng	# 100
12) 2-Methylnaphthalene	12.314	142	38501	1.648	ng	99
16) Acenaphthylene	14.206	152	49508	1.644	ng	100
17) Acenaphthene	14.559	154	33424	1.641	ng	99
18) Fluorene	15.535	166	40588	1.646	ng	99
20) 4,6-Dinitro-2-methylph...	15.610	198	1837	1.725	ng	# 46
21) 4-Bromophenyl-phenylether	16.441	248	12511	1.669	ng	98
22) Hexachlorobenzene	16.553	284	14034	1.628	ng	99
23) Atrazine	16.702	200	7765	1.628	ng	97
24) Pentachlorophenol	16.888	266	3932	1.571	ng	98
25) Phenanthrene	17.285	178	59082	1.632	ng	100
26) Anthracene	17.372	178	52416	1.635	ng	100
28) Fluoranthene	19.299	202	64074	1.614	ng	100
30) Pyrene	19.661	202	62457	1.638	ng	100
32) Benzo(a)anthracene	21.402	228	54932	1.616	ng	99
33) Chrysene	21.447	228	58866	1.615	ng	97
34) Bis(2-ethylhexyl)phtha...	21.349	149	14814	1.470	ng	# 99
36) Indeno(1,2,3-cd)pyrene	26.139	276	65254	1.705	ng	100
37) Benzo(b)fluoranthene	23.043	252	59639	1.662	ng	95
38) Benzo(k)fluoranthene	23.090	252	62123	1.698	ng	96
39) Benzo(a)pyrene	23.645	252	47897	1.667	ng	# 92
40) Dibenzo(a,h)anthracene	26.159	278	53306	1.744	ng	93
41) Benzo(g,h,i)perylene	26.858	276	57151	1.666	ng	97

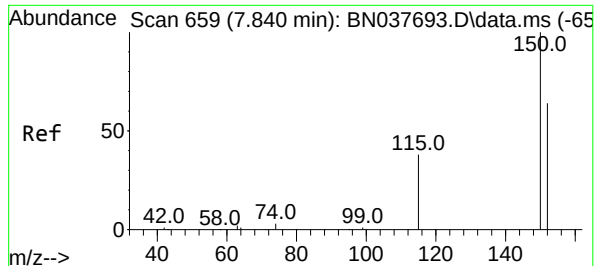
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037695.D
Acq On : 11 Sep 2025 12:20
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

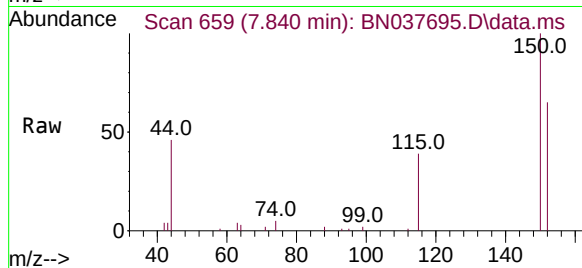
Quant Time: Sep 11 14:06:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration



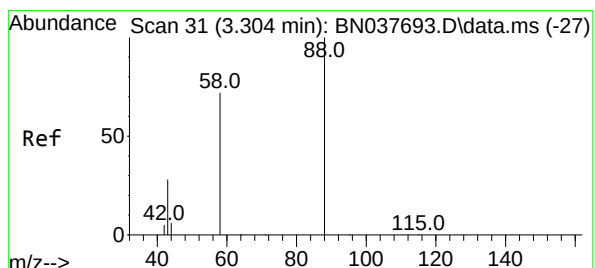
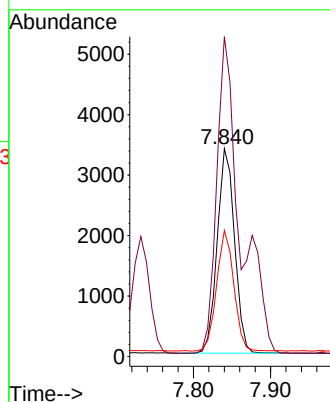
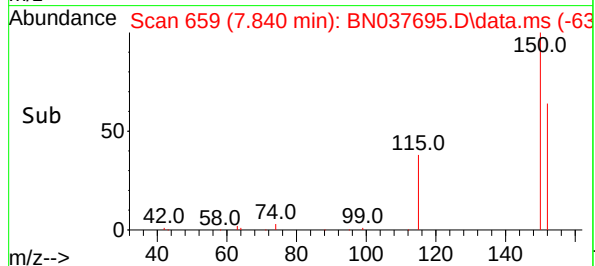


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

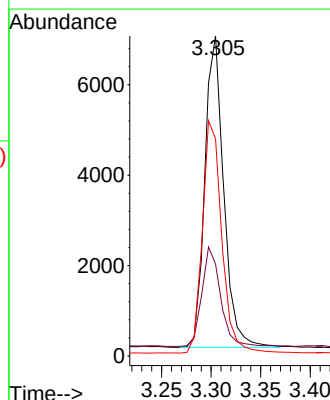
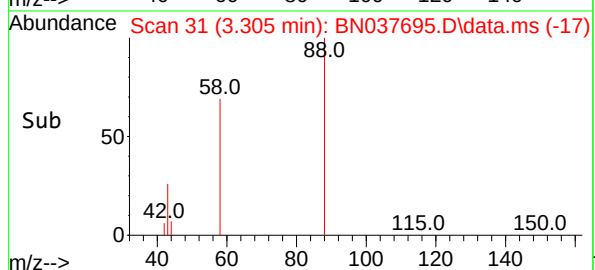
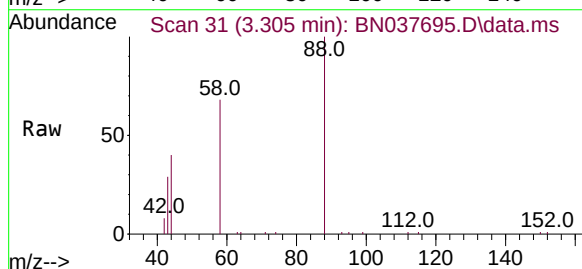


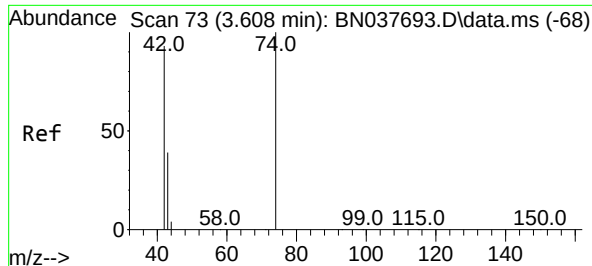
Tgt Ion:152 Resp: 5277
Ion Ratio Lower Upper
152 100
150 153.9 124.5 186.7
115 60.6 49.2 73.8



#2
1,4-Dioxane
Concen: 1.660 ng
RT: 3.305 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion: 88 Resp: 9125
Ion Ratio Lower Upper
88 100
43 31.6 26.8 40.2
58 76.5 61.9 92.9

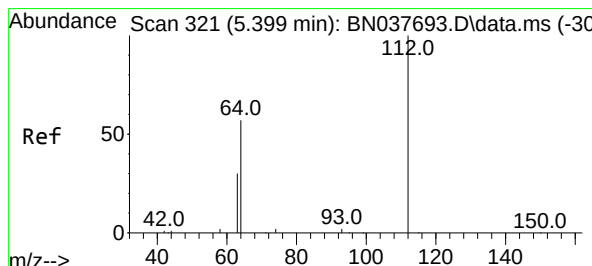
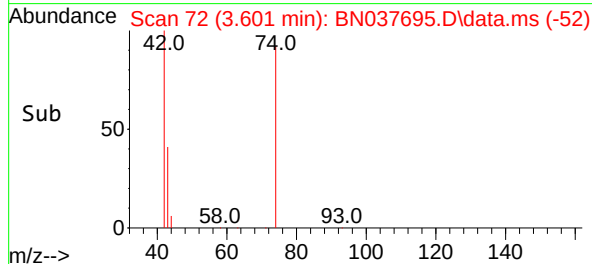
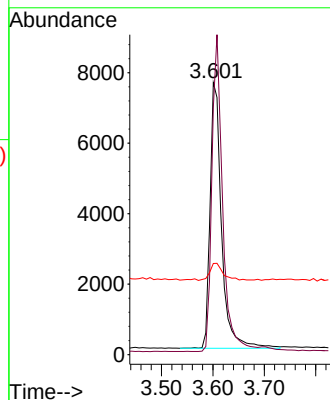
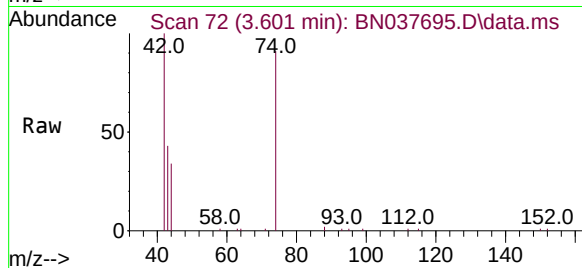




#3
n-Nitrosodimethylamine
Concen: 1.633 ng
RT: 3.601 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

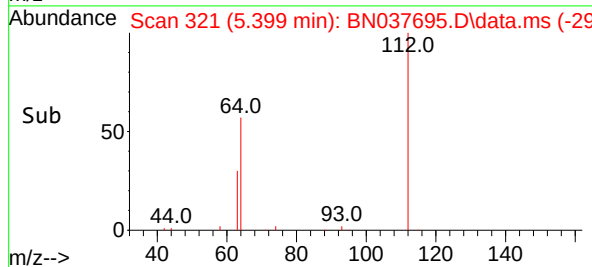
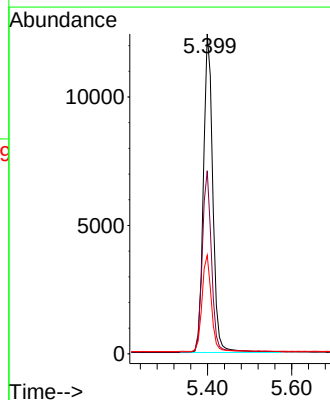
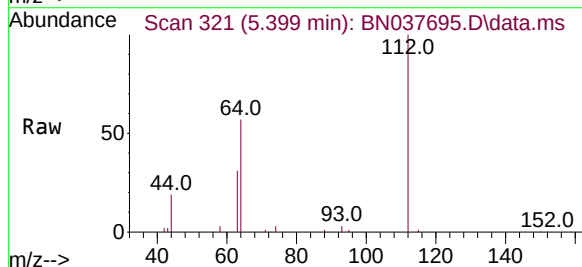
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

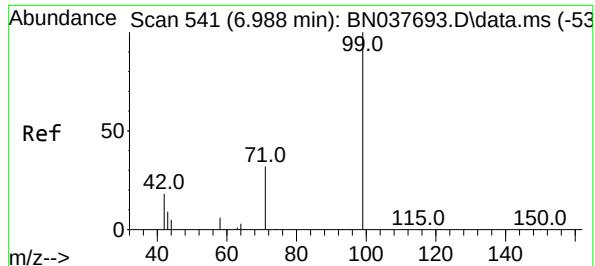
Tgt Ion: 42 Resp: 11726
Ion Ratio Lower Upper
42 100
74 111.0 86.0 129.0
44 7.4 8.4 12.6#



#4
2-Fluorophenol
Concen: 1.589 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion: 112 Resp: 19252
Ion Ratio Lower Upper
112 100
64 56.0 44.9 67.3
63 29.9 24.7 37.1

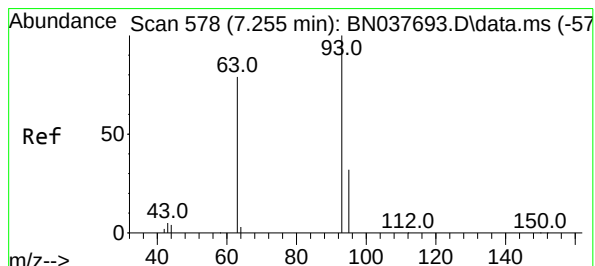
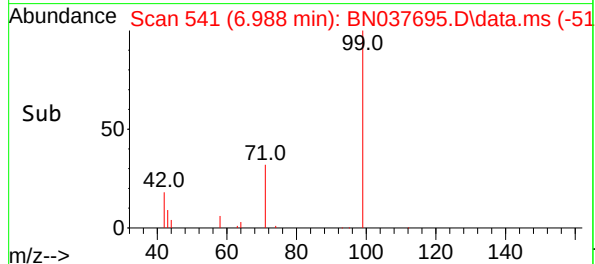
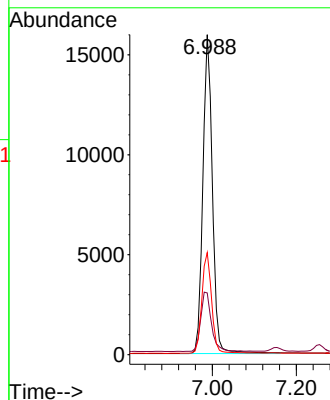
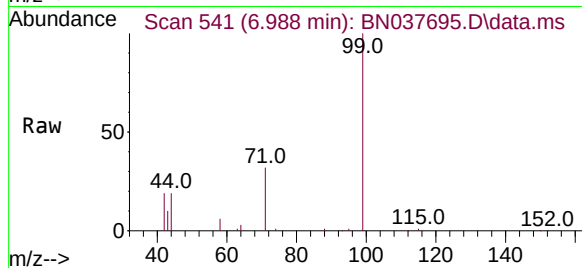




#5
Phenol-d6
Concen: 1.603 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

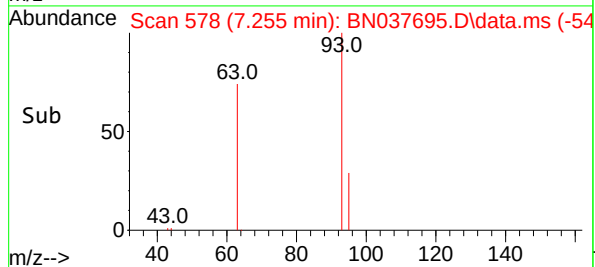
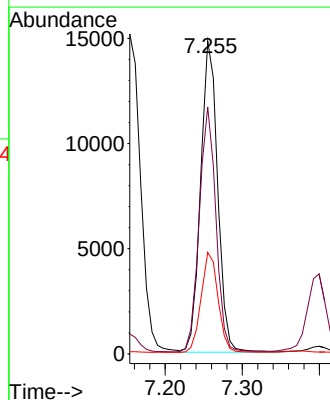
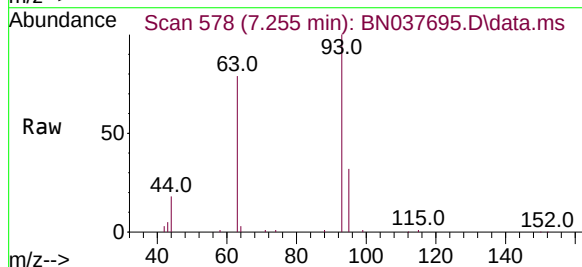
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

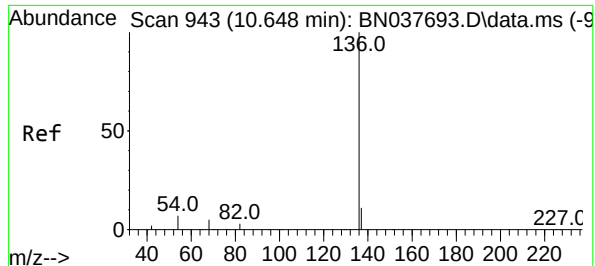
Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.9	16.6	24.8
71	32.5	26.7	40.1



#6
bis(2-Chloroethyl)ether
Concen: 1.622 ng
RT: 7.255 min Scan# 578
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion	Ratio	Lower	Upper
93	100		
63	76.7	60.6	90.8
95	32.0	26.0	39.0

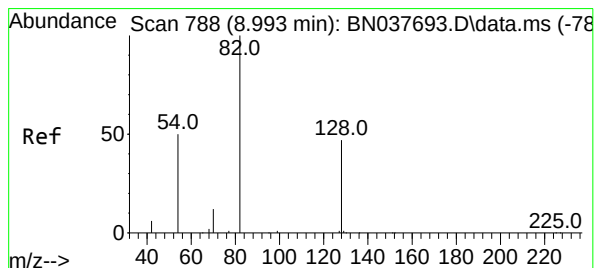
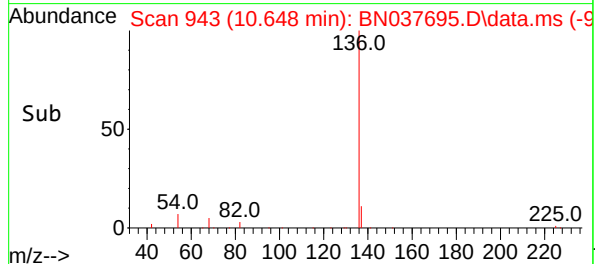
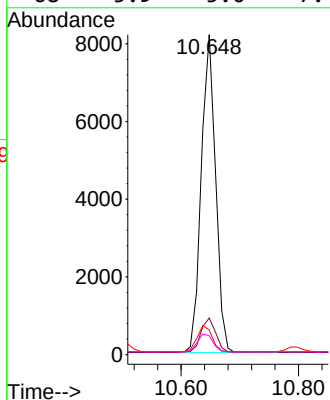
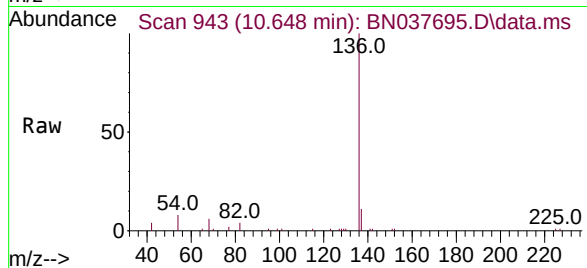




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

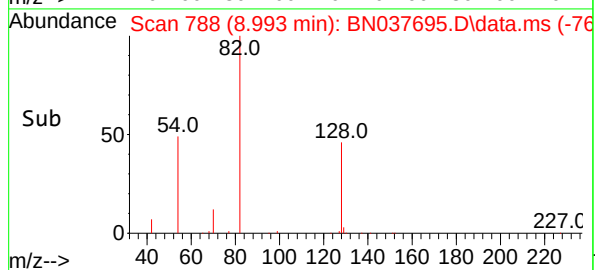
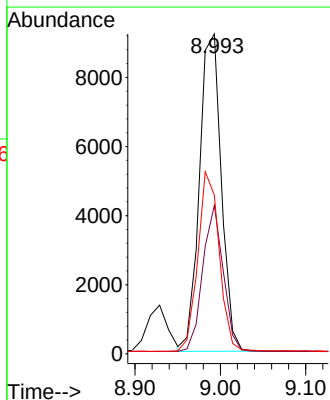
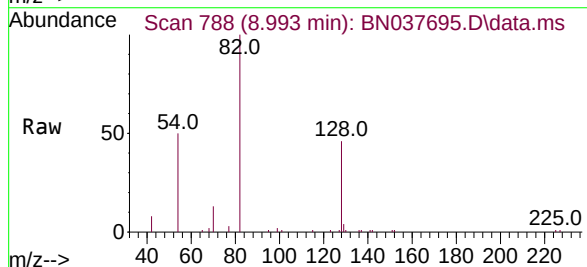
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

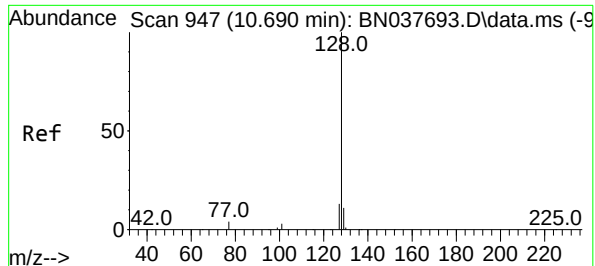
Tgt Ion:	136	Resp:	13818
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	7.7	6.3	9.5
68	5.9	5.0	7.4



#8
Nitrobenzene-d5
Concen: 1.621 ng
RT: 8.993 min Scan# 788
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:	82	Resp:	16386
Ion	Ratio	Lower	Upper
82	100		
128	46.4	38.3	57.5
54	49.6	41.4	62.2

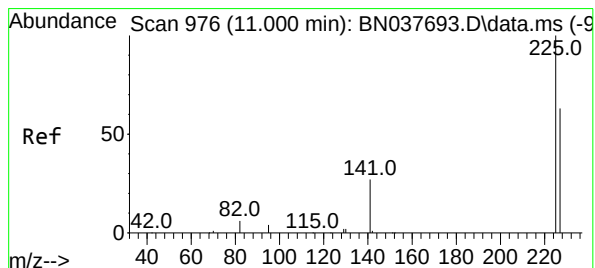
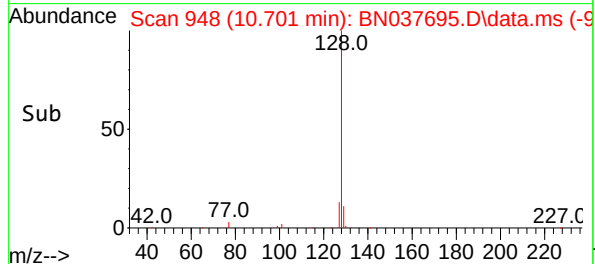
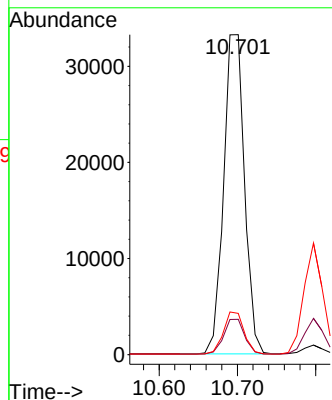
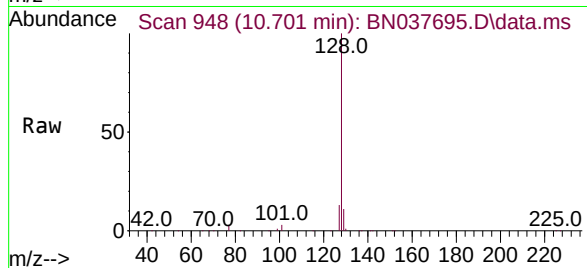




#9
Naphthalene
Concen: 1.634 ng
RT: 10.701 min Scan# 948
Delta R.T. 0.011 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

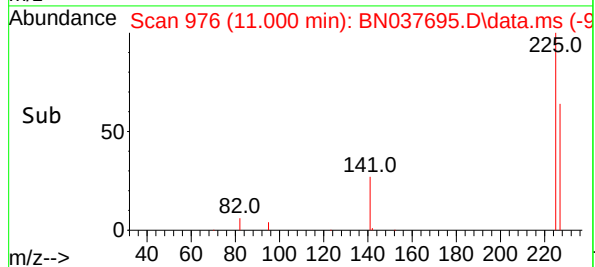
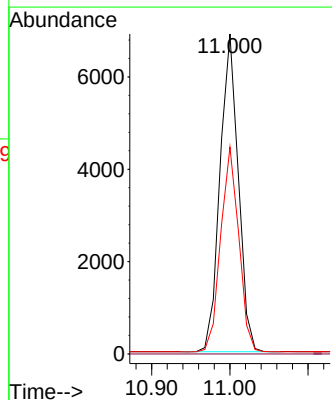
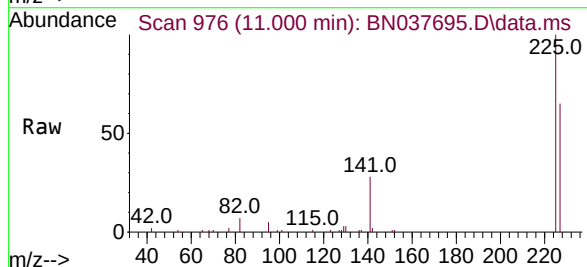
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

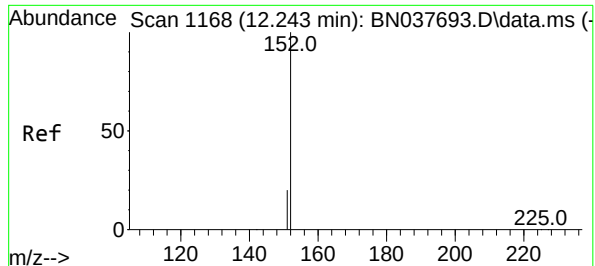
Tgt Ion:128 Resp: 61726
Ion Ratio Lower Upper
128 100
129 11.0 9.1 13.7
127 12.9 10.9 16.3



#10
Hexachlorobutadiene
Concen: 1.640 ng
RT: 11.000 min Scan# 976
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:225 Resp: 11208
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 50.9 76.3

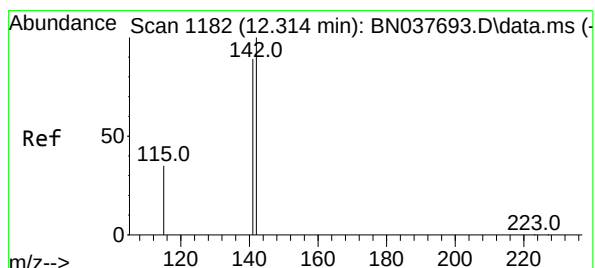
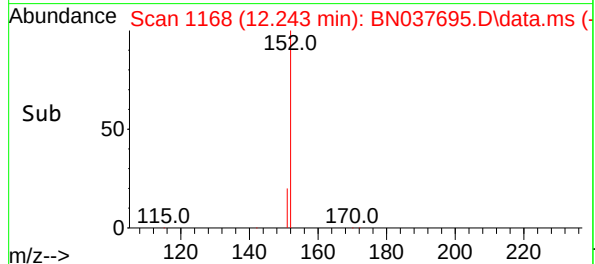
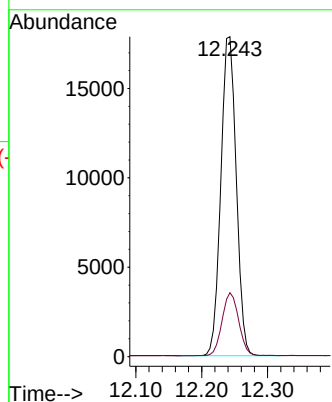
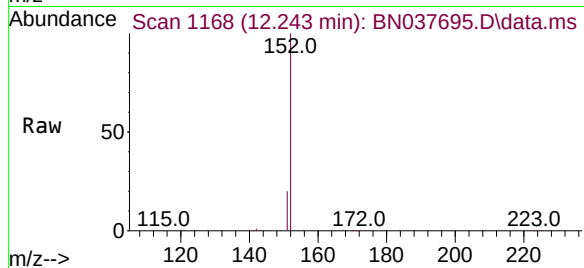




#11
2-Methylnaphthalene-d10
Concen: 1.576 ng
RT: 12.243 min Scan# 1168
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

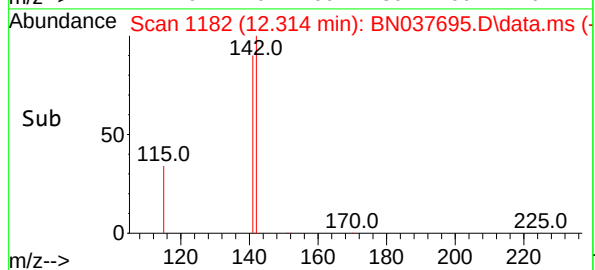
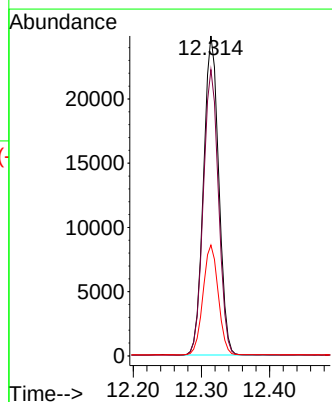
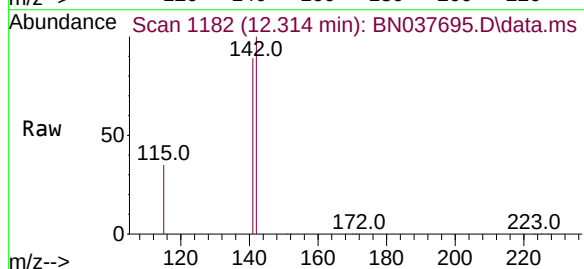
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

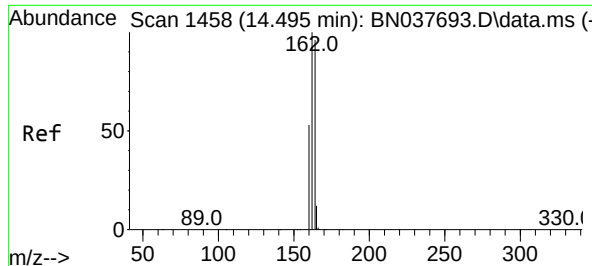
Tgt Ion:152 Resp: 28843
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#12
2-Methylnaphthalene
Concen: 1.648 ng
RT: 12.314 min Scan# 1182
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:142 Resp: 38501
Ion Ratio Lower Upper
142 100
141 89.5 71.6 107.4
115 34.6 28.6 43.0

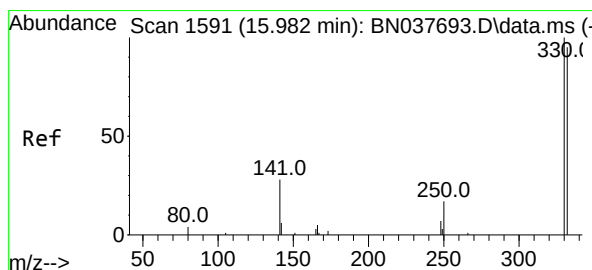
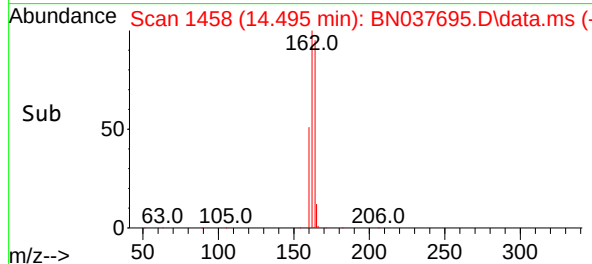
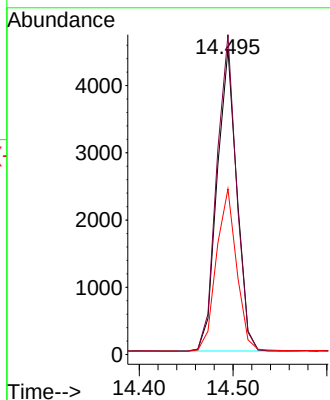
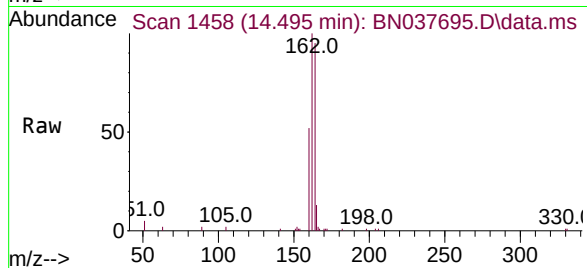




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 1458
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

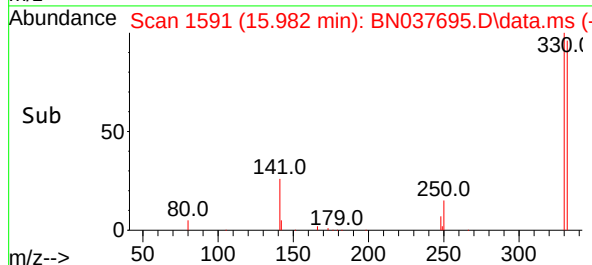
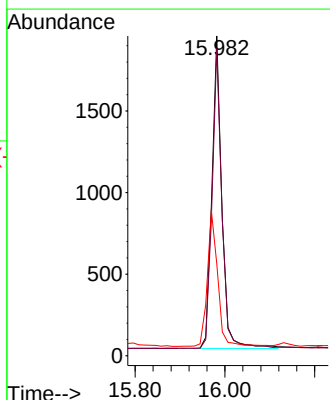
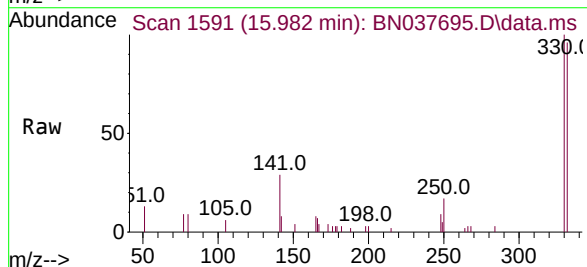
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

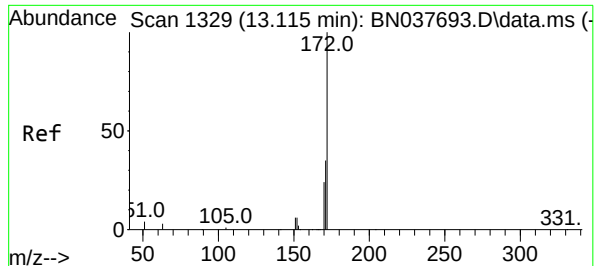
Tgt Ion	164	Resp:	6567
Ion	Ratio	Lower	Upper
164	100		
162	104.8	83.1	124.7
160	54.2	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 1.728 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion	330	Resp:	2959
Ion	Ratio	Lower	Upper
330	100		
332	95.0	75.3	112.9
141	45.3	35.0	52.4





#15

2-Fluorobiphenyl

Concen: 1.615 ng

RT: 13.116 min Scan# 1329

Delta R.T. 0.000 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

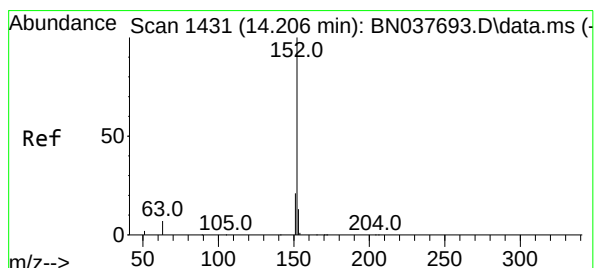
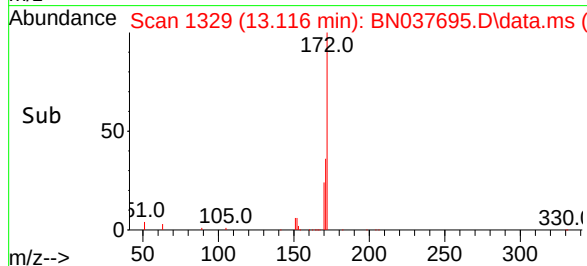
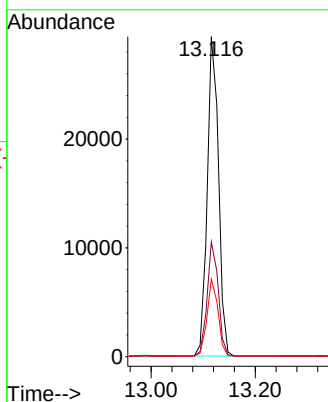
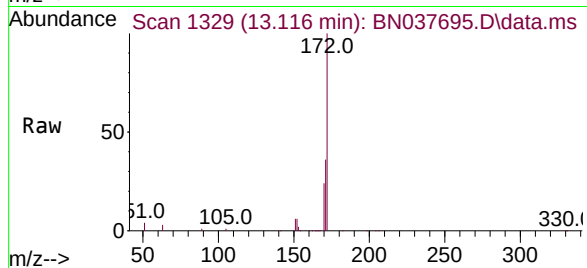
Tgt Ion:172 Resp: 44363

Ion Ratio Lower Upper

172 100

171 35.9 28.6 43.0

170 24.2 19.8 29.8



#16

Acenaphthylene

Concen: 1.644 ng

RT: 14.206 min Scan# 1431

Delta R.T. 0.000 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

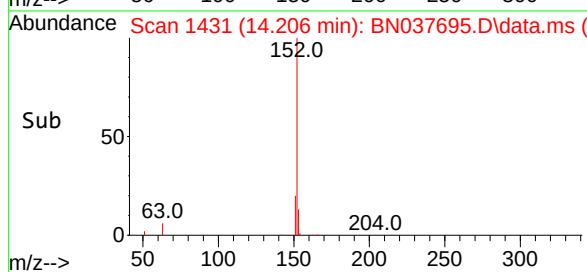
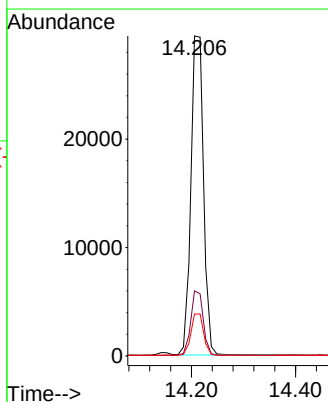
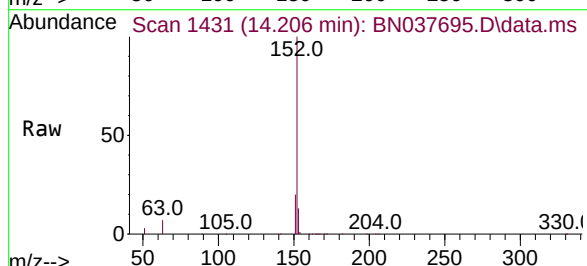
Tgt Ion:152 Resp: 49508

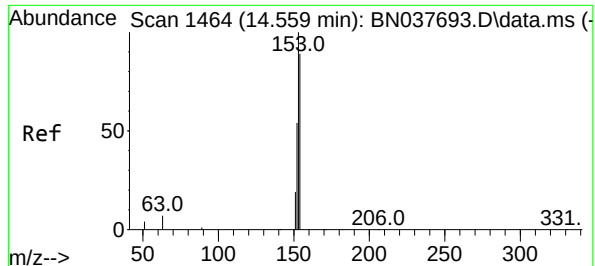
Ion Ratio Lower Upper

152 100

151 19.9 16.2 24.2

153 13.0 10.4 15.6

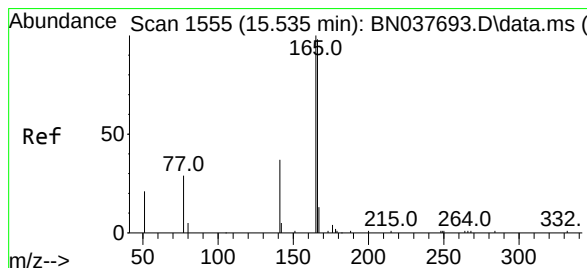
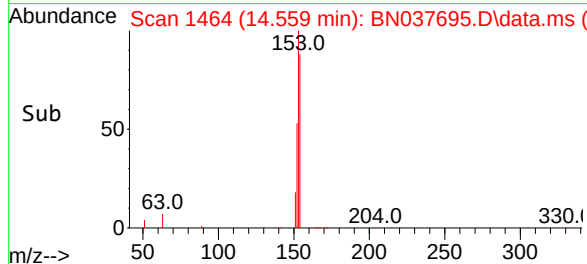
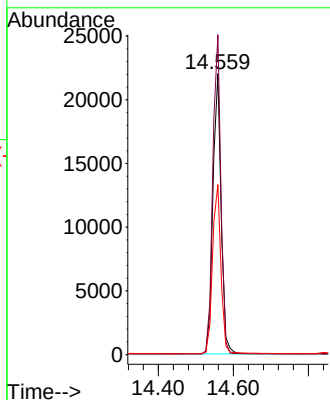
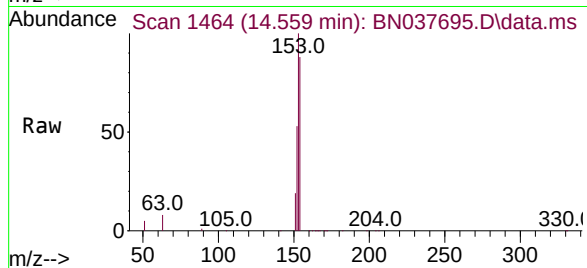




#17
Acenaphthene
Concen: 1.641 ng
RT: 14.559 min Scan# 1464
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

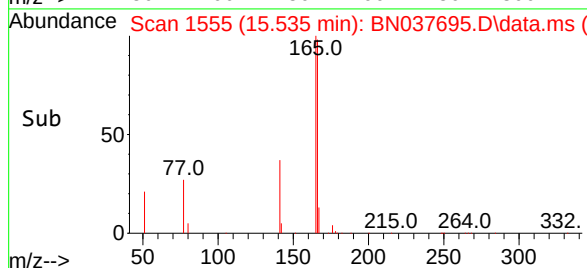
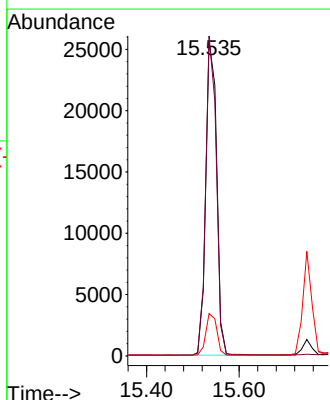
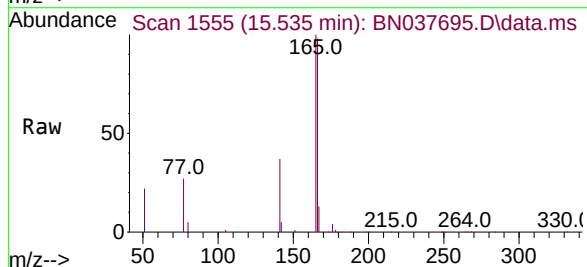
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

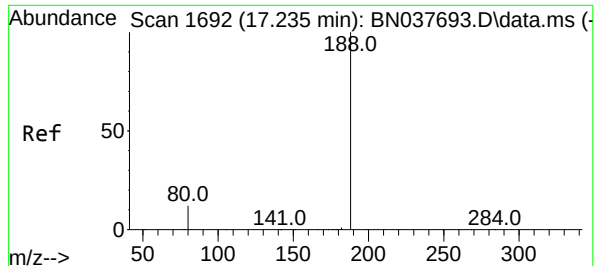
Tgt Ion:154 Resp: 33424
Ion Ratio Lower Upper
154 100
153 111.9 89.8 134.8
152 61.8 50.2 75.2



#18
Fluorene
Concen: 1.646 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:166 Resp: 40588
Ion Ratio Lower Upper
166 100
165 98.2 79.6 119.4
167 13.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.236 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

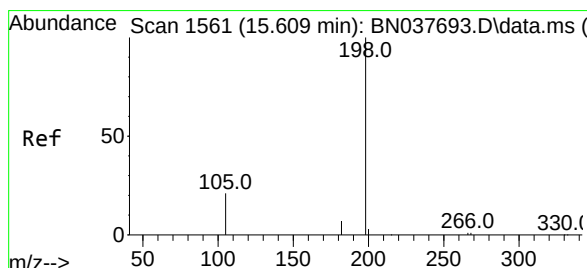
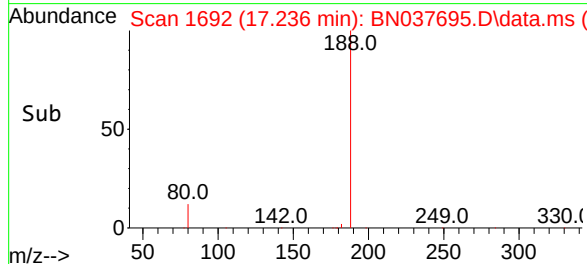
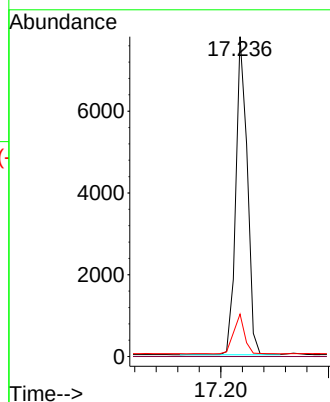
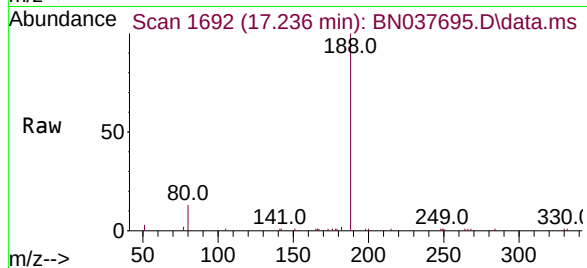
Tgt Ion:188 Resp: 11496

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.3 10.6 15.8



#20

4,6-Dinitro-2-methylphenol

Concen: 1.725 ng

RT: 15.610 min Scan# 1561

Delta R.T. 0.001 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

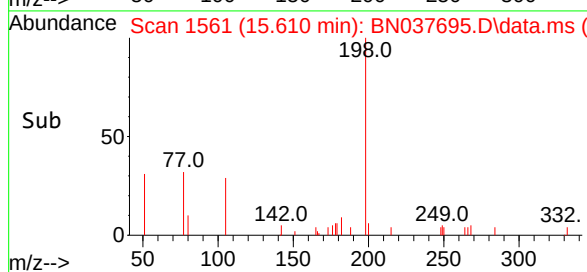
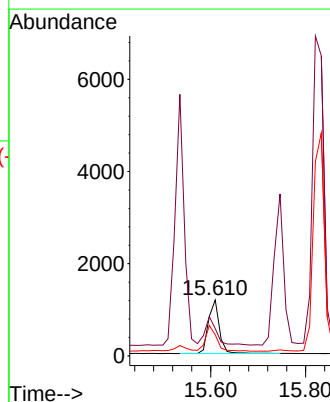
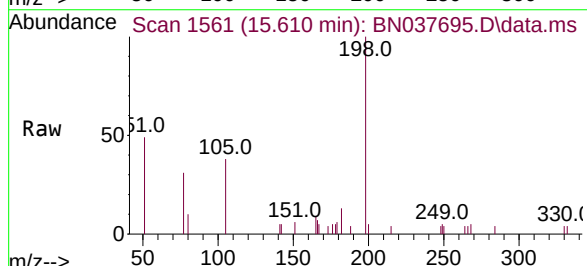
Tgt Ion:198 Resp: 1837

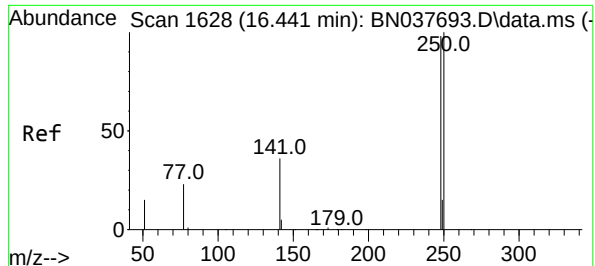
Ion Ratio Lower Upper

198 100

51 48.7 95.1 142.7#

105 37.6 53.8 80.6#

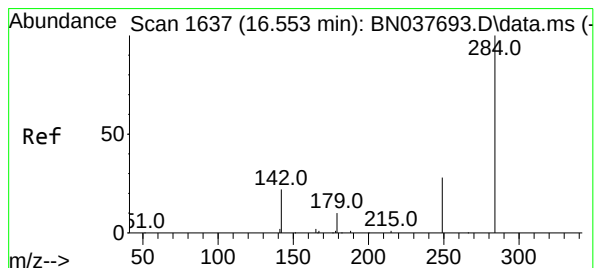
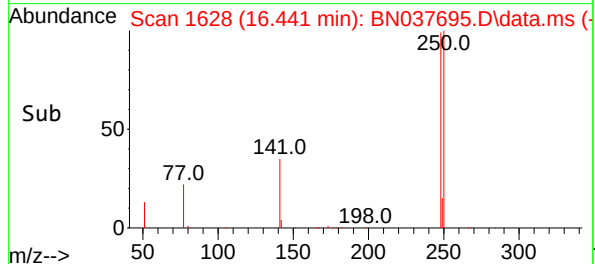
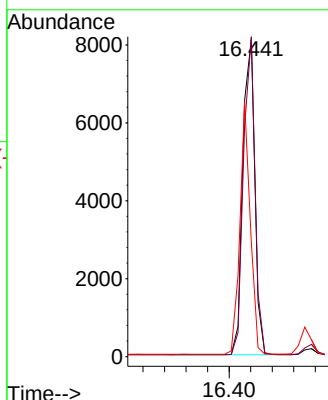
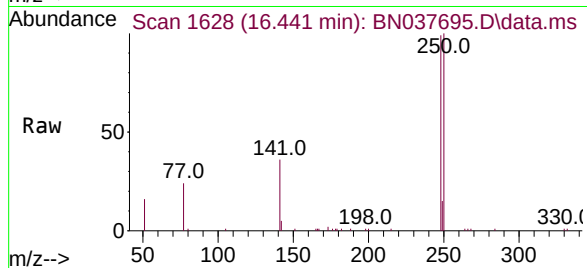




#21
4-Bromophenyl-phenylether
Concen: 1.669 ng
RT: 16.441 min Scan# 1628
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

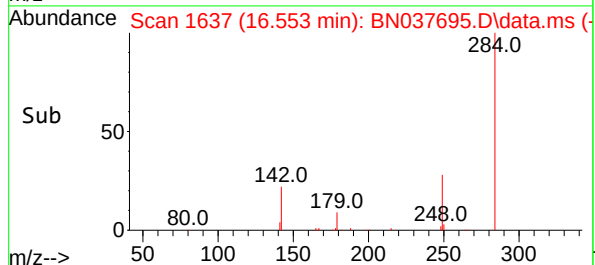
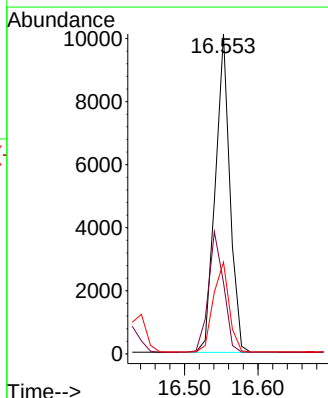
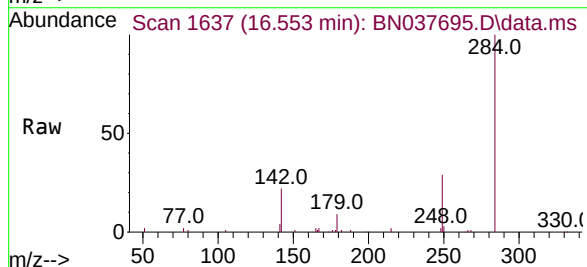
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

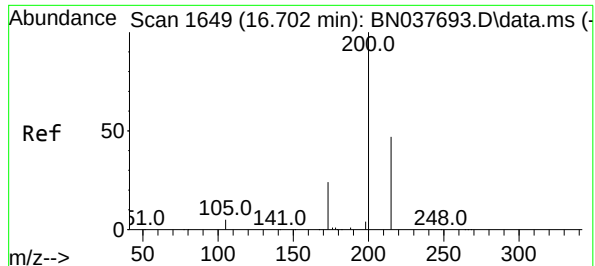
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.8	81.5	122.3
141	36.0	30.8	46.2



#22
Hexachlorobenzene
Concen: 1.628 ng
RT: 16.553 min Scan# 1637
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.1	30.9	46.3
249	30.3	24.8	37.2

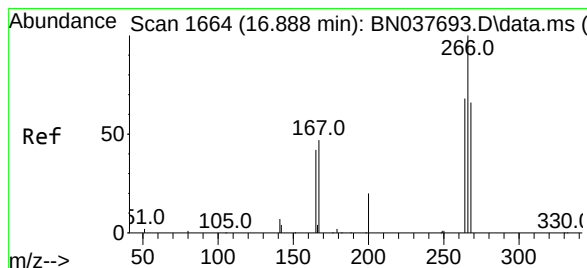
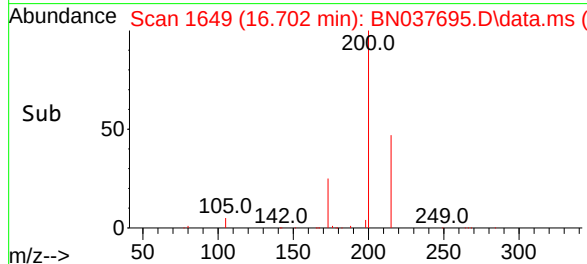
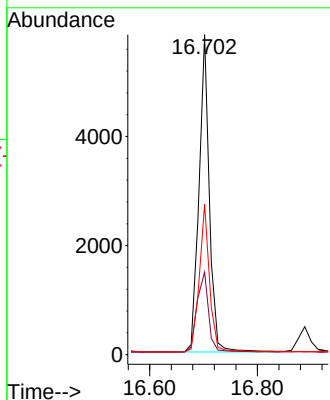
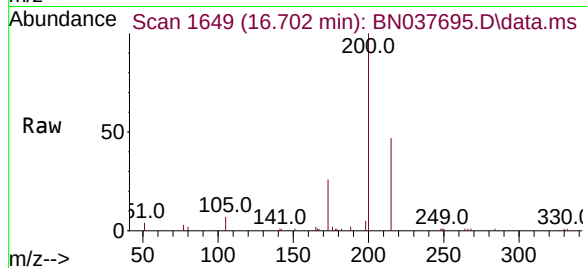




#23
Atrazine
Concen: 1.628 ng
RT: 16.702 min Scan# 1649
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

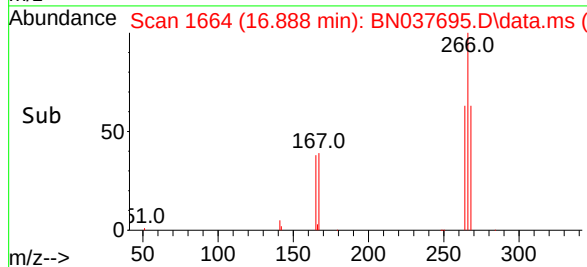
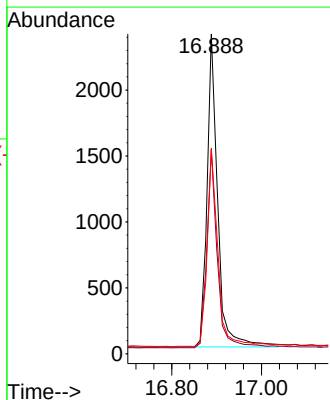
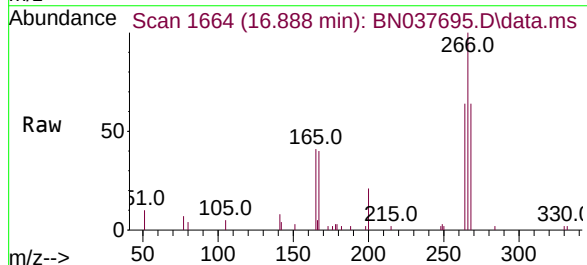
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

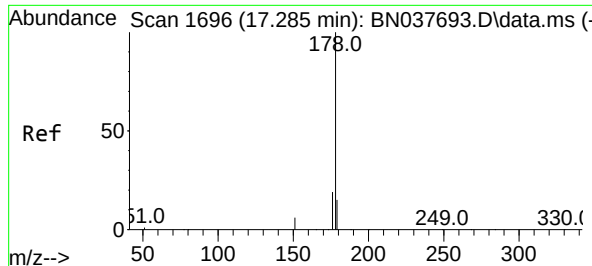
Tgt Ion	Ratio	Lower	Upper
200	100		
173	25.8	21.4	32.2
215	47.0	39.2	58.8



#24
Pentachlorophenol
Concen: 1.571 ng
RT: 16.888 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.1	51.6	77.4
268	65.1	53.2	79.8

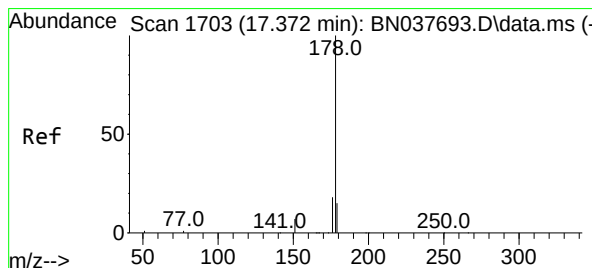
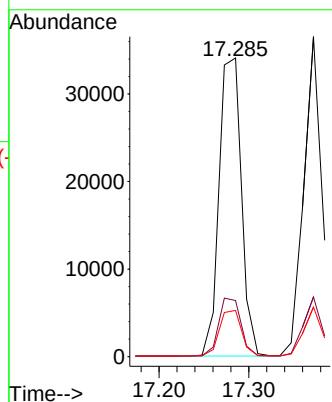
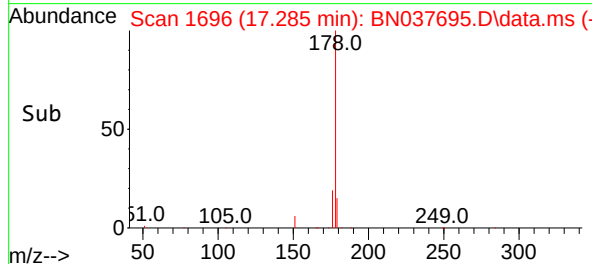
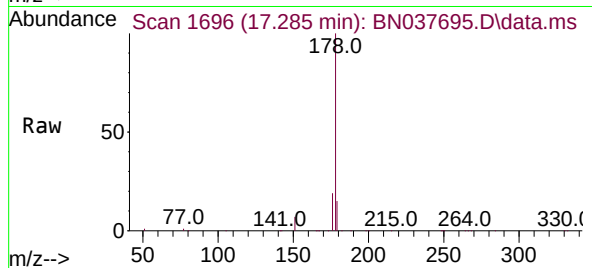




#25
Phenanthrene
Concen: 1.632 ng
RT: 17.285 min Scan# 1696
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

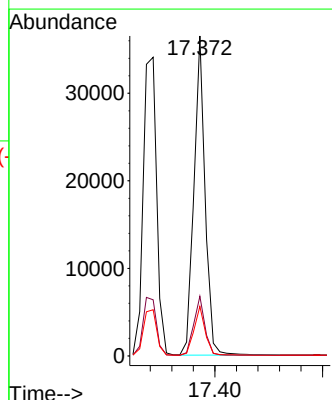
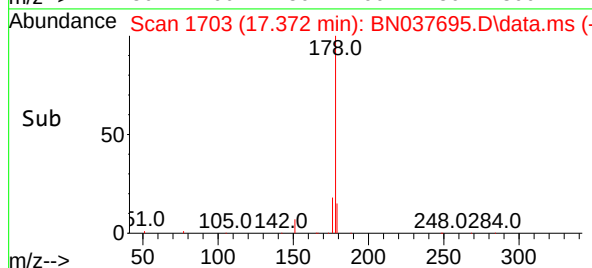
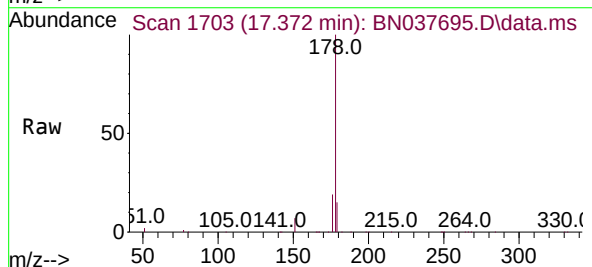
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

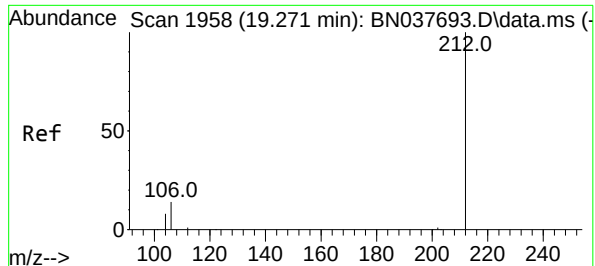
Tgt Ion:178 Resp: 59082
Ion Ratio Lower Upper
178 100
176 19.3 15.3 22.9
179 15.2 12.2 18.2



#26
Anthracene
Concen: 1.635 ng
RT: 17.372 min Scan# 1703
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:178 Resp: 52416
Ion Ratio Lower Upper
178 100
176 18.5 14.6 22.0
179 15.2 12.2 18.4





#27

Fluoranthene-d10

Concen: 1.520 ng

RT: 19.267 min Scan# 1958

Delta R.T. -0.005 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

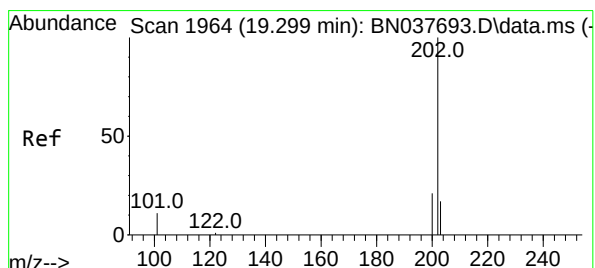
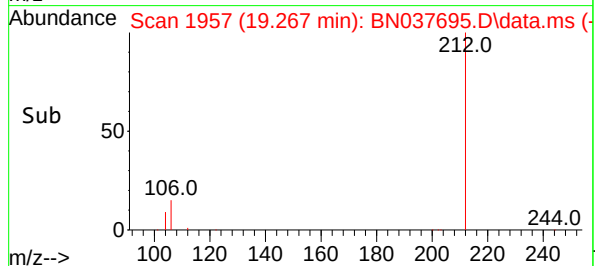
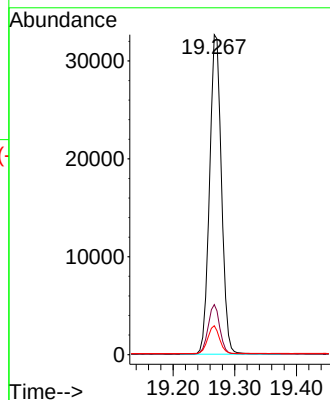
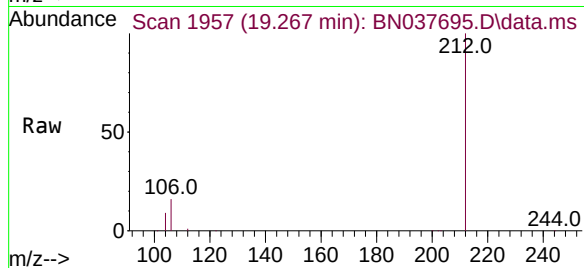
Tgt Ion:212 Resp: 43876

Ion Ratio Lower Upper

212 100

106 15.2 12.2 18.2

104 8.6 6.9 10.3



#28

Fluoranthene

Concen: 1.614 ng

RT: 19.299 min Scan# 1964

Delta R.T. 0.000 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

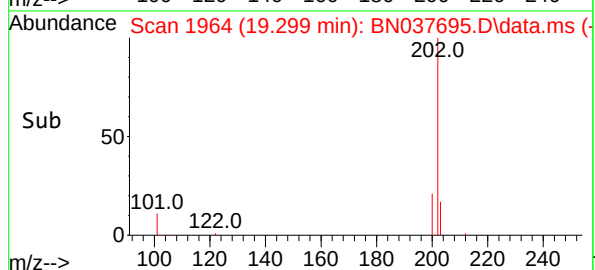
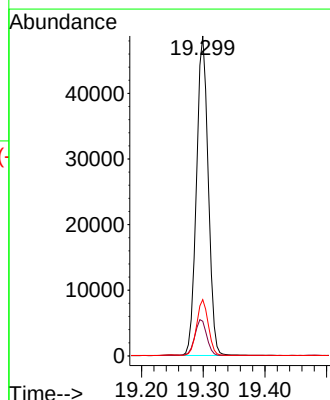
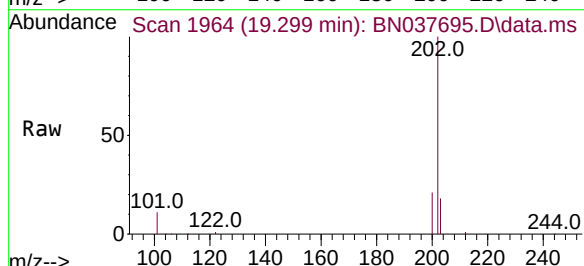
Tgt Ion:202 Resp: 64074

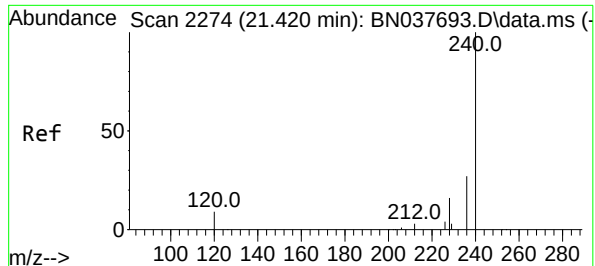
Ion Ratio Lower Upper

202 100

101 11.6 9.3 13.9

203 17.3 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.420 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

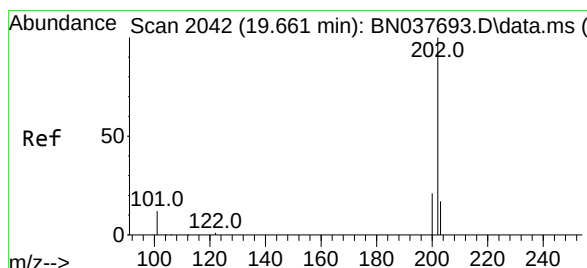
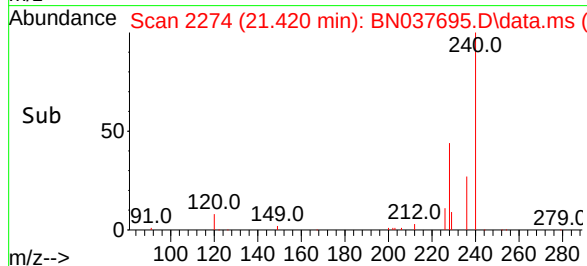
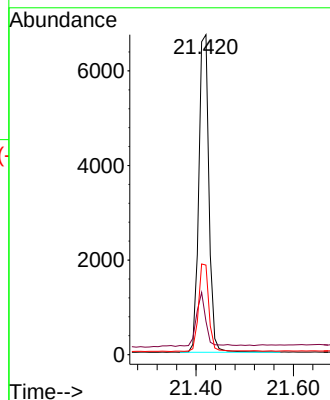
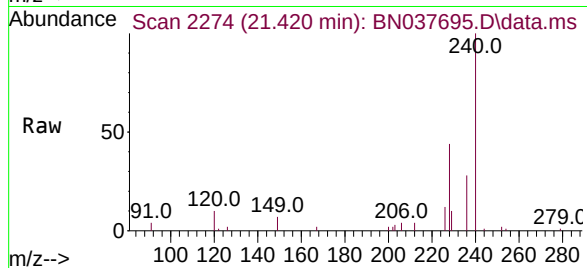
Tgt Ion:240 Resp: 9743

Ion Ratio Lower Upper

240 100

120 10.4 9.2 13.8

236 28.0 22.6 33.8



#30

Pyrene

Concen: 1.638 ng

RT: 19.661 min Scan# 2042

Delta R.T. 0.000 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

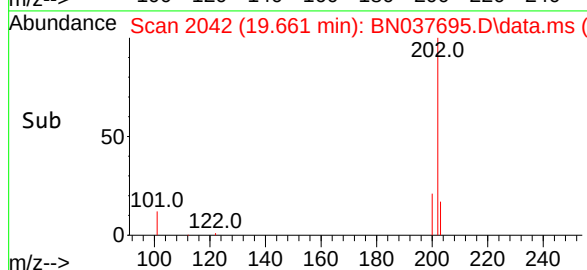
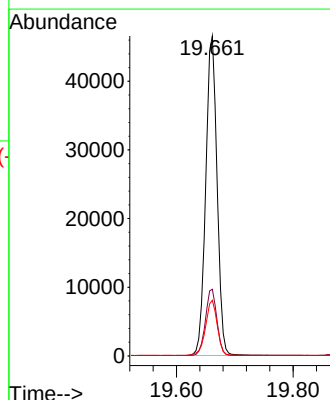
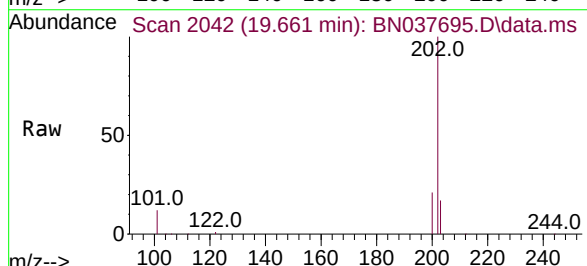
Tgt Ion:202 Resp: 62457

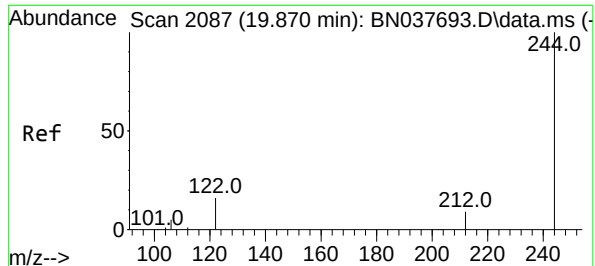
Ion Ratio Lower Upper

202 100

200 20.9 16.8 25.2

203 17.8 14.3 21.5

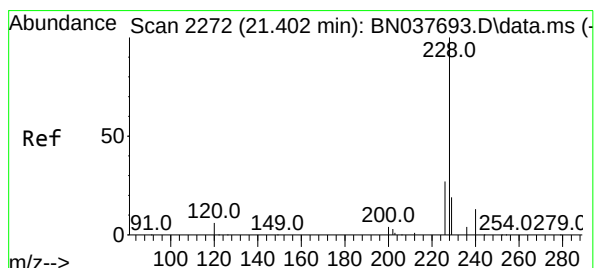
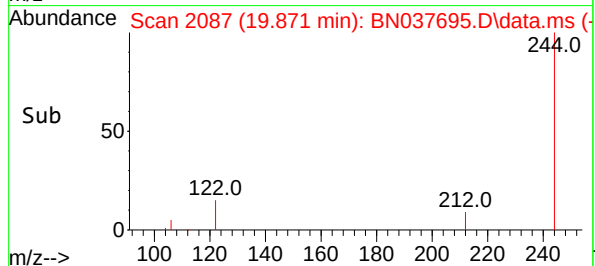
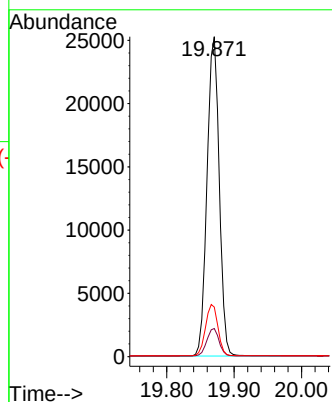
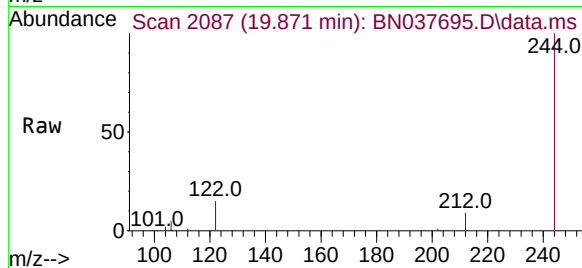




#31
Terphenyl-d14
Concen: 1.601 ng
RT: 19.871 min Scan# 2087
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

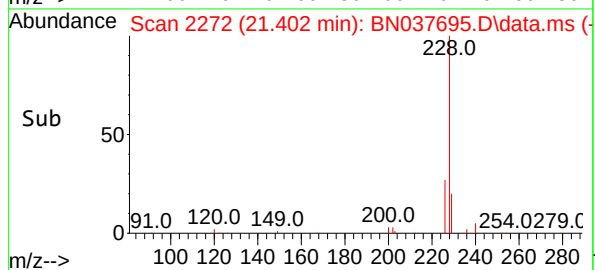
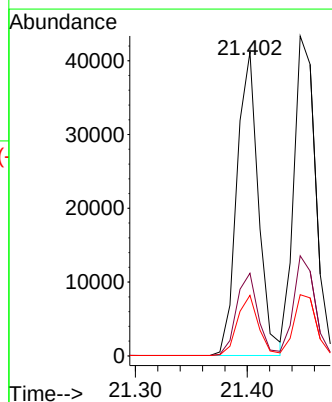
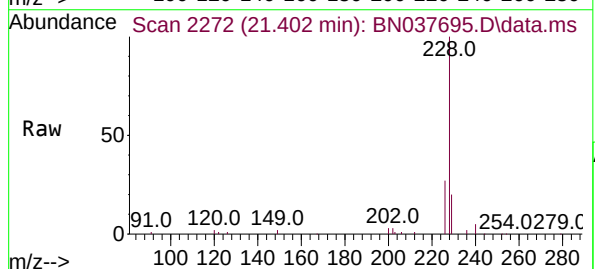
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

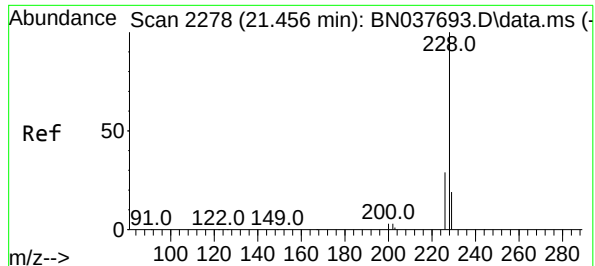
Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.8	7.5	11.3
122	15.5	13.2	19.8



#32
Benzo(a)anthracene
Concen: 1.616 ng
RT: 21.402 min Scan# 2272
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.2	33.2
229	19.9	15.8	23.6





#33

Chrysene

Concen: 1.615 ng

RT: 21.447 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

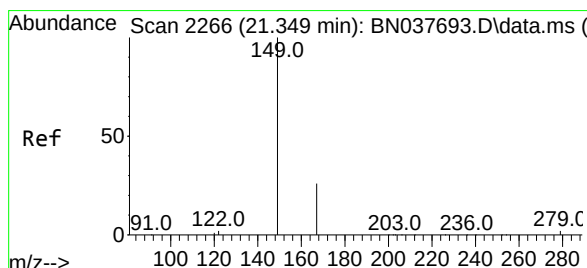
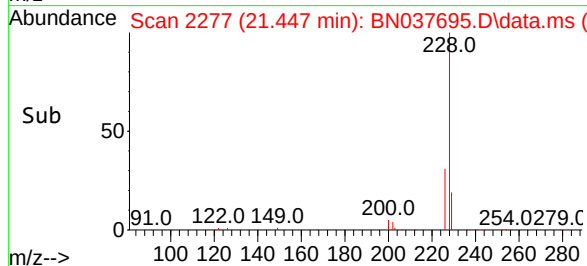
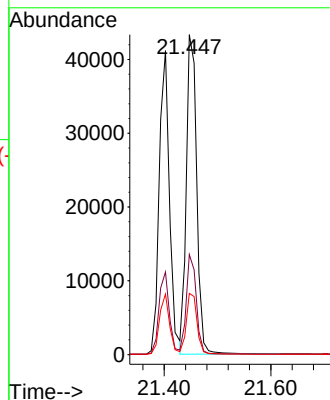
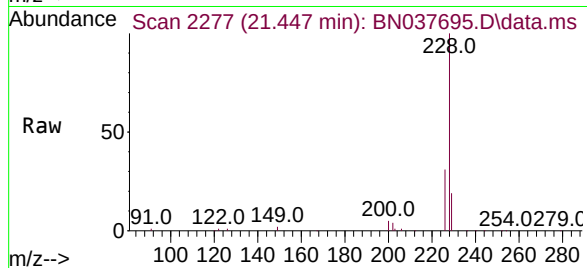
Tgt Ion:228 Resp: 58866

Ion Ratio Lower Upper

228 100

226 31.3 23.5 35.3

229 19.1 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.470 ng

RT: 21.349 min Scan# 2266

Delta R.T. 0.000 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

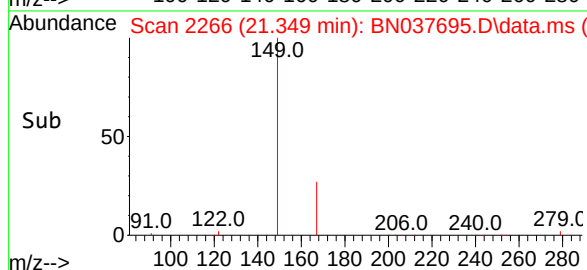
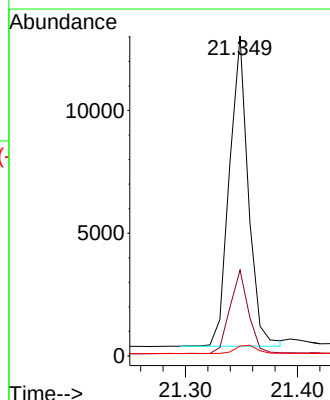
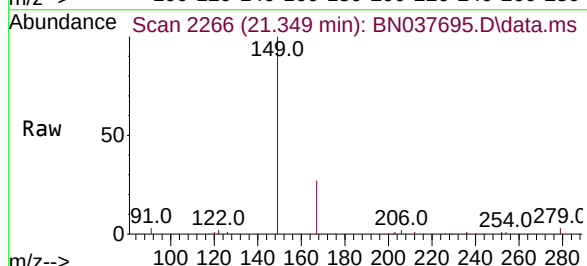
Tgt Ion:149 Resp: 14814

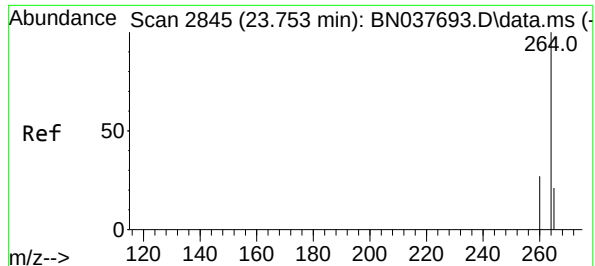
Ion Ratio Lower Upper

149 100

167 26.6 20.8 31.2

279 3.2 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.750 min Scan# 2844

Delta R.T. -0.003 min

Lab File: BN037695.D

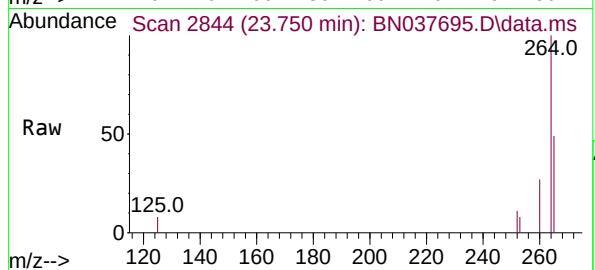
Acq: 11 Sep 2025 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



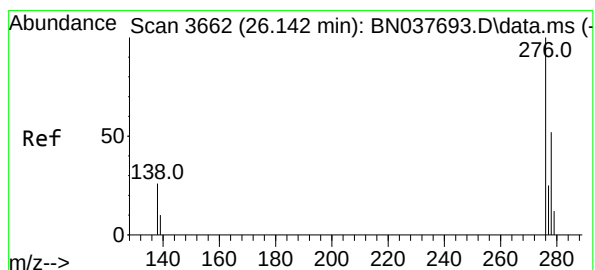
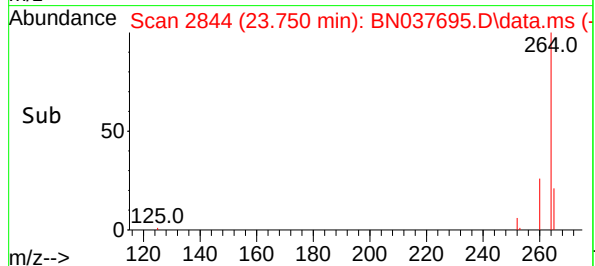
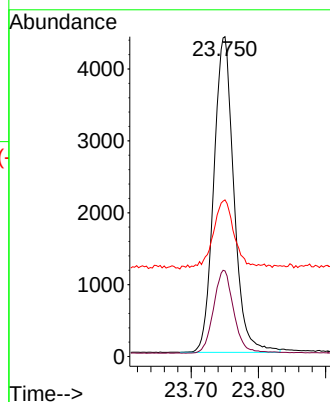
Tgt Ion:264 Resp: 9111

Ion Ratio Lower Upper

264 100

260 26.8 21.8 32.8

265 49.0 39.4 59.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.705 ng

RT: 26.139 min Scan# 3661

Delta R.T. -0.003 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

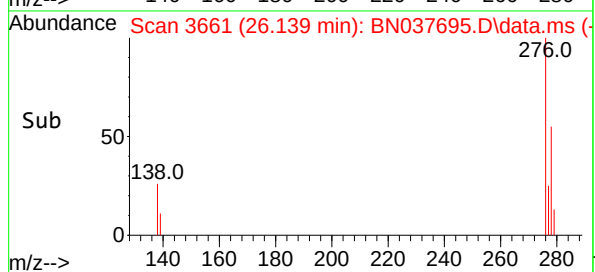
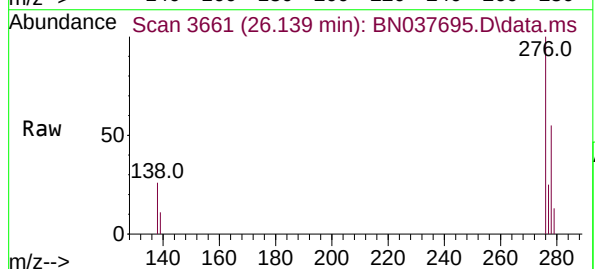
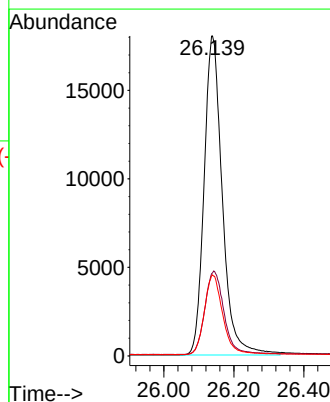
Tgt Ion:276 Resp: 65254

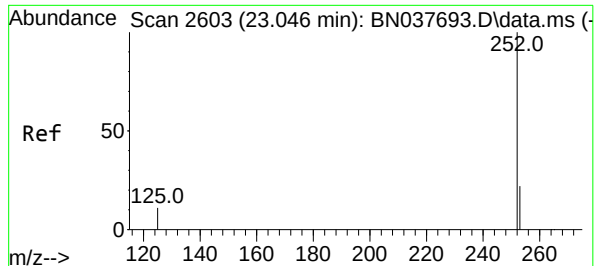
Ion Ratio Lower Upper

276 100

138 27.5 21.9 32.9

277 25.2 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 1.662 ng

RT: 23.043 min Scan# 2602

Delta R.T. -0.003 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

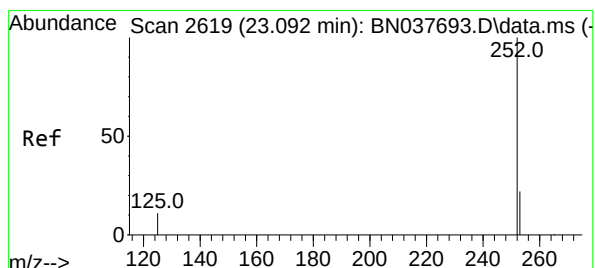
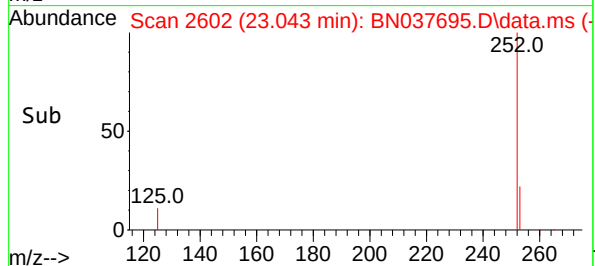
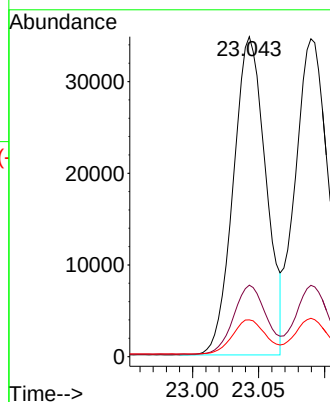
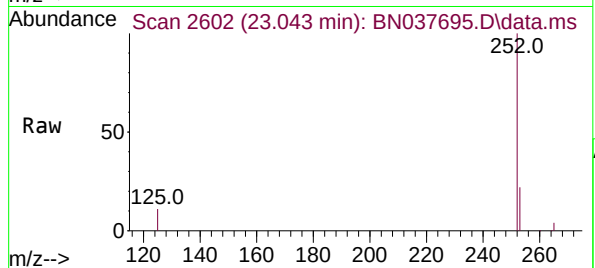
Tgt Ion:252 Resp: 59639

Ion Ratio Lower Upper

252 100

253 22.3 19.4 29.2

125 11.5 11.2 16.8



#38

Benzo(k)fluoranthene

Concen: 1.698 ng

RT: 23.090 min Scan# 2618

Delta R.T. -0.003 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

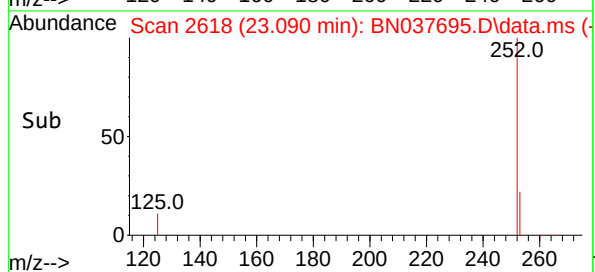
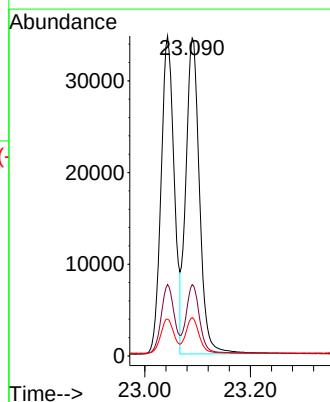
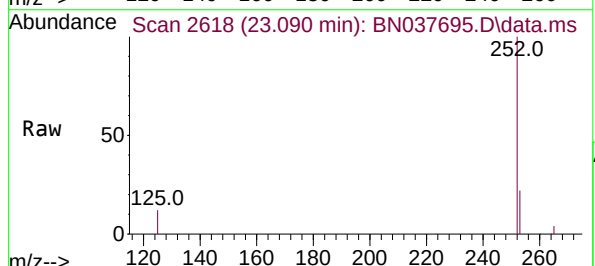
Tgt Ion:252 Resp: 62123

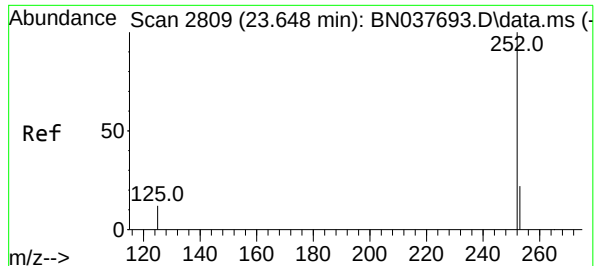
Ion Ratio Lower Upper

252 100

253 22.4 19.4 29.0

125 12.1 11.6 17.4





#39

Benzo(a)pyrene

Concen: 1.667 ng

RT: 23.645 min Scan# 2809

Delta R.T. -0.003 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

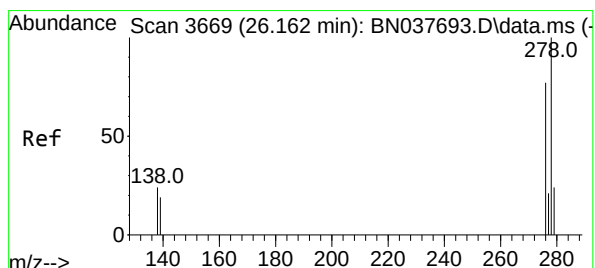
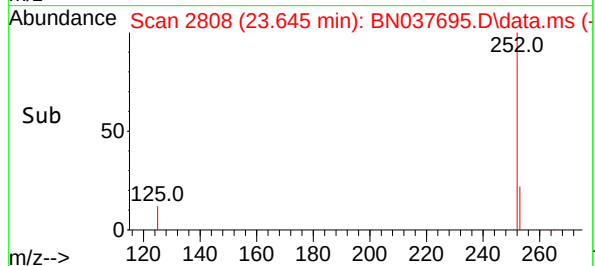
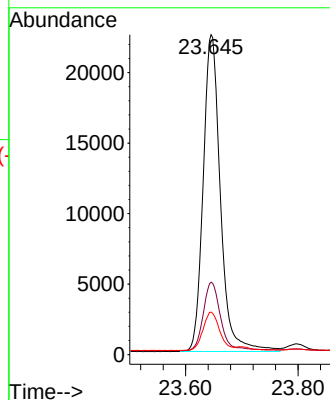
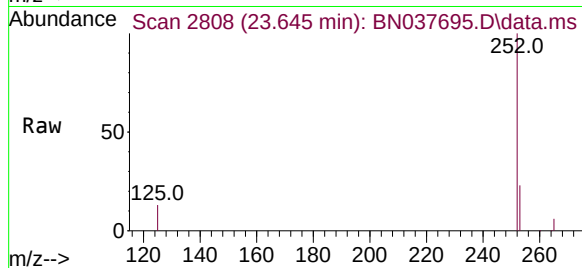
Tgt Ion:252 Resp: 47897

Ion Ratio Lower Upper

252 100

253 22.6 20.8 31.2

125 13.3 13.9 20.9#



#40

Dibenzo(a,h)anthracene

Concen: 1.744 ng

RT: 26.159 min Scan# 3668

Delta R.T. -0.003 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

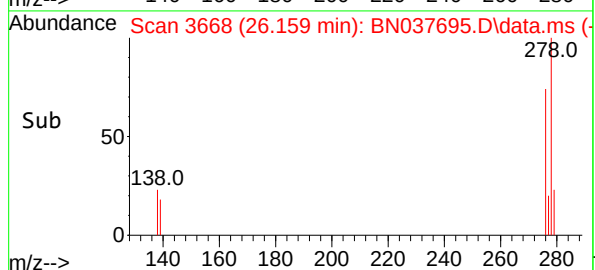
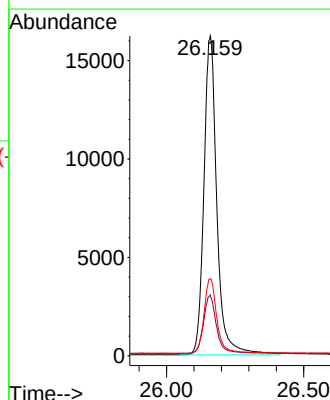
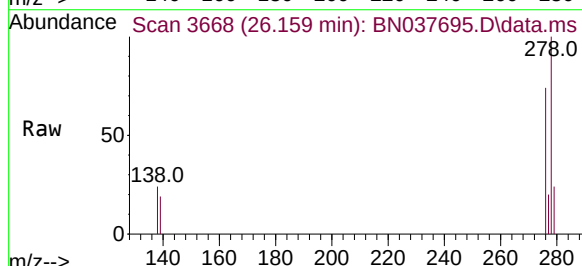
Tgt Ion:278 Resp: 53306

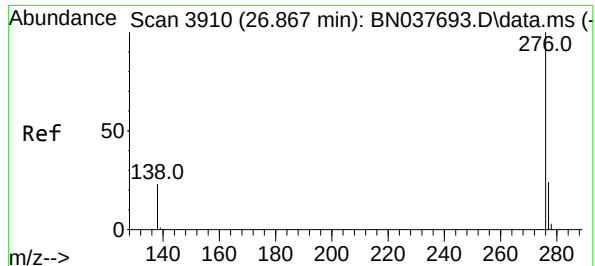
Ion Ratio Lower Upper

278 100

139 19.0 17.8 26.6

279 24.1 22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 1.666 ng

RT: 26.858 min Scan# 3910

Delta R.T. -0.009 min

Lab File: BN037695.D

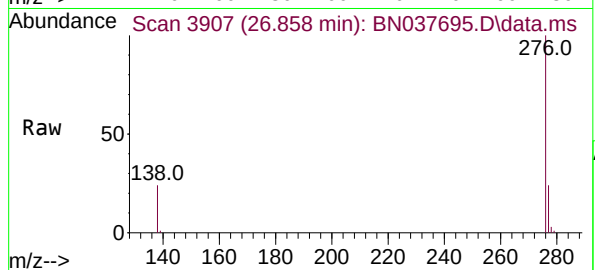
Acq: 11 Sep 2025 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



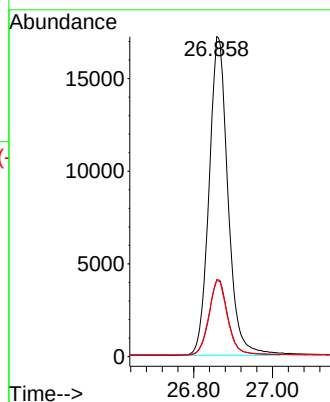
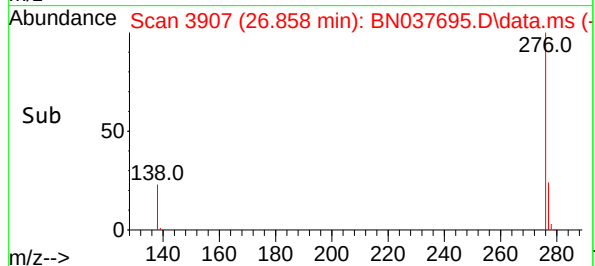
Tgt Ion:276 Resp: 57151

Ion Ratio Lower Upper

276 100

277 24.0 20.6 31.0

138 23.7 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
 Data File : BN037696.D
 Acq On : 11 Sep 2025 12:56
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Sep 11 14:07:18 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:02:44 2025
 Response via : Initial Calibration

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

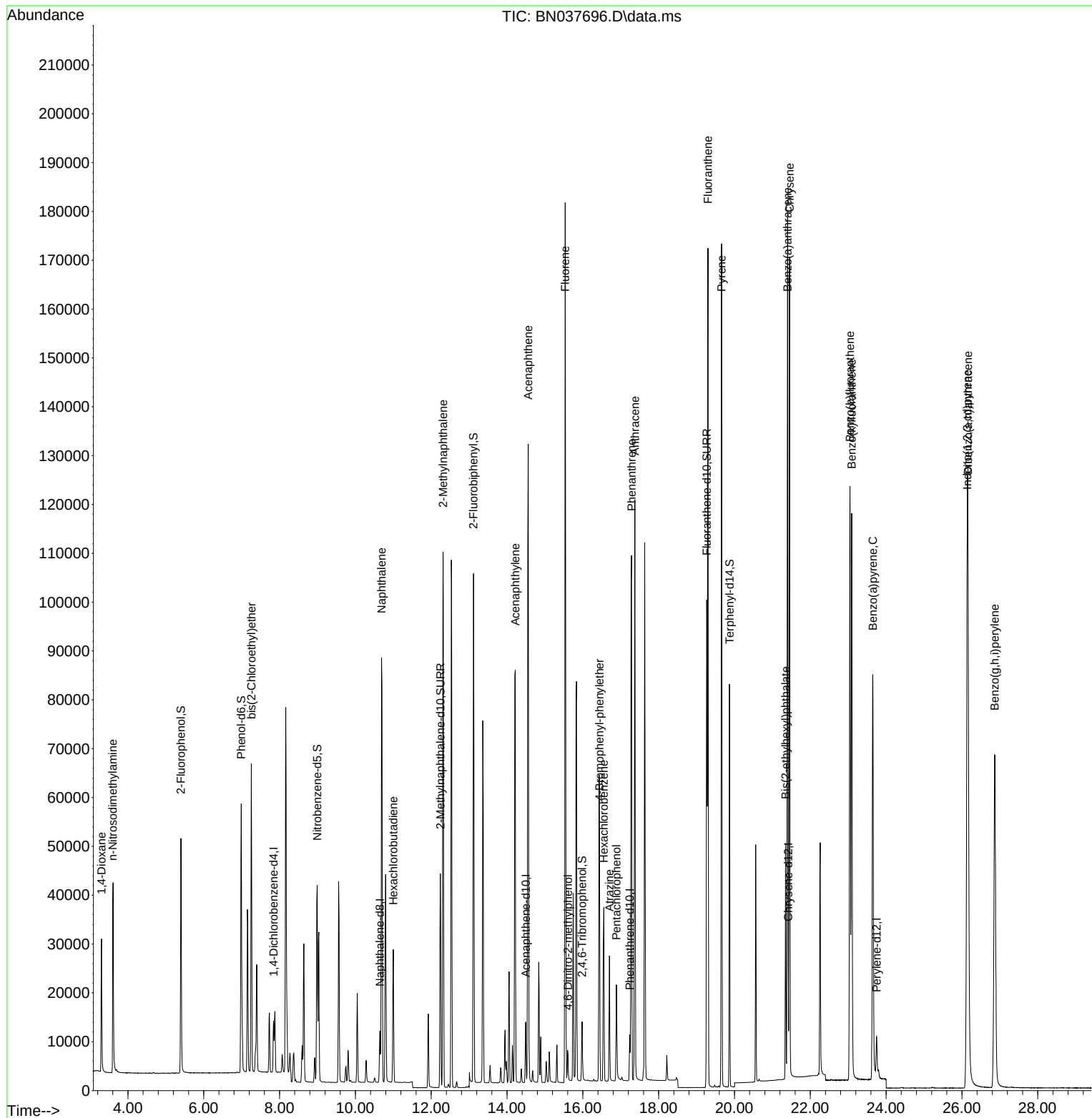
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	5084	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	13375	0.400	ng	0.00
13) Acenaphthene-d10	14.495	164	6550	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	11925	0.400	ng	0.00
29) Chrysene-d12	21.420	240	12141	0.400	ng	0.00
35) Perylene-d12	23.750	264	11403	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	38119	3.266	ng	0.00
5) Phenol-d6	6.988	99	49810	3.291	ng	0.00
8) Nitrobenzene-d5	8.993	82	32423	3.314	ng	0.00
11) 2-Methylnaphthalene-d10	12.243	152	58810	3.319	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	6865	4.018	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	87709	3.202	ng	0.00
27) Fluoranthene-d10	19.267	212	105719	3.531	ng	0.00
31) Terphenyl-d14	19.870	244	76156	3.090	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.304	88	16994	3.209	ng	98
3) n-Nitrosodimethylamine	3.601	42	22382	3.235	ng	# 95
6) bis(2-Chloroethyl)ether	7.255	93	43338	3.205	ng	100
9) Naphthalene	10.690	128	119338	3.264	ng	99
10) Hexachlorobutadiene	11.000	225	21272	3.216	ng	# 100
12) 2-Methylnaphthalene	12.314	142	76164	3.368	ng	99
16) Acenaphthylene	14.217	152	100382	3.342	ng	100
17) Acenaphthene	14.559	154	67901	3.343	ng	98
18) Fluorene	15.535	166	85576	3.479	ng	98
20) 4,6-Dinitro-2-methylph...	15.609	198	4427	4.008	ng	# 37
21) 4-Bromophenyl-phenylether	16.441	248	25659	3.300	ng	97
22) Hexachlorobenzene	16.553	284	28853	3.226	ng	99
23) Atrazine	16.702	200	18156	3.670	ng	96
24) Pentachlorophenol	16.888	266	9551	3.678	ng	97
25) Phenanthrene	17.285	178	125980	3.355	ng	100
26) Anthracene	17.372	178	116443	3.501	ng	100
28) Fluoranthene	19.299	202	150569	3.657	ng	100
30) Pyrene	19.661	202	149814	3.152	ng	100
32) Benzo(a)anthracene	21.402	228	141736	3.347	ng	99
33) Chrysene	21.456	228	146238	3.221	ng	100
34) Bis(2-ethylhexyl)phtha...	21.349	149	42504	3.385	ng	# 99
36) Indeno(1,2,3-cd)pyrene	26.139	276	170120	3.551	ng	100
37) Benzo(b)fluoranthene	23.046	252	152726	3.401	ng	94
38) Benzo(k)fluoranthene	23.092	252	154690	3.378	ng	# 94
39) Benzo(a)pyrene	23.648	252	124741	3.469	ng	# 90
40) Dibenzo(a,h)anthracene	26.159	278	138597	3.623	ng	92
41) Benzo(g,h,i)perylene	26.864	276	146601	3.415	ng	96

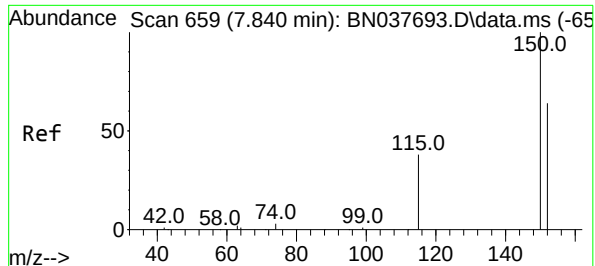
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
 Data File : BN037696.D
 Acq On : 11 Sep 2025 12:56
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

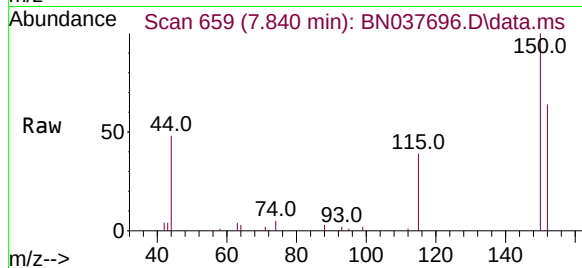
Quant Time: Sep 11 14:07:18 2025
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:02:44 2025
 Response via : Initial Calibration



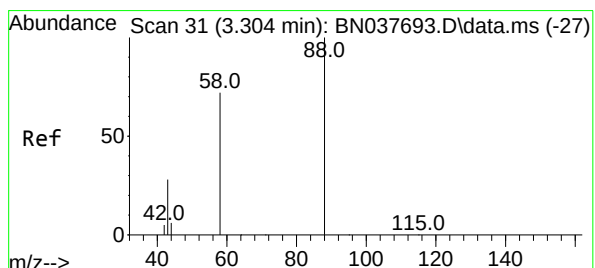
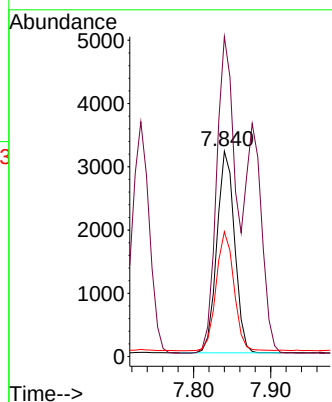
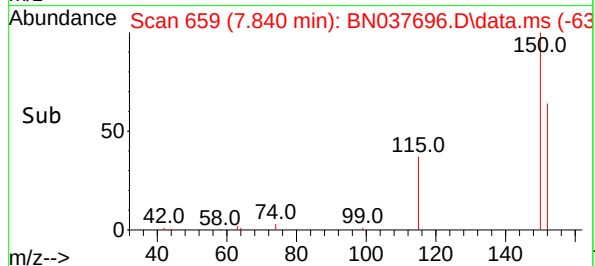


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

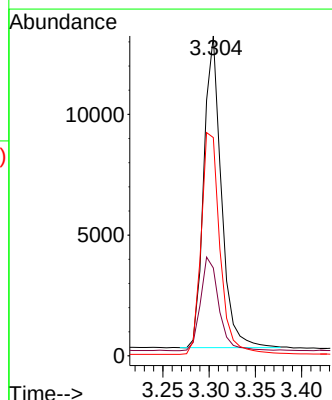
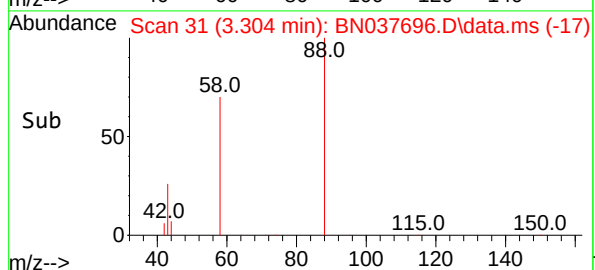
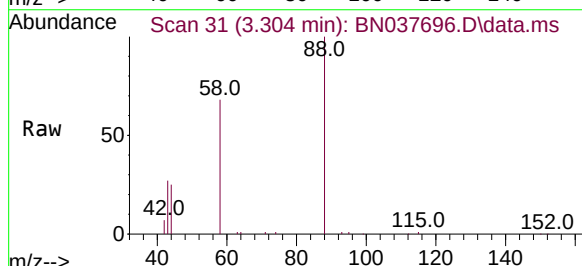


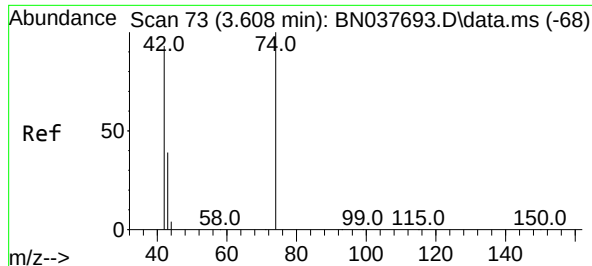
Tgt Ion:152 Resp: 5084
Ion Ratio Lower Upper
152 100
150 155.9 124.5 186.7
115 60.8 49.2 73.8



#2
1,4-Dioxane
Concen: 3.209 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion: 88 Resp: 16994
Ion Ratio Lower Upper
88 100
43 31.3 26.8 40.2
58 76.5 61.9 92.9

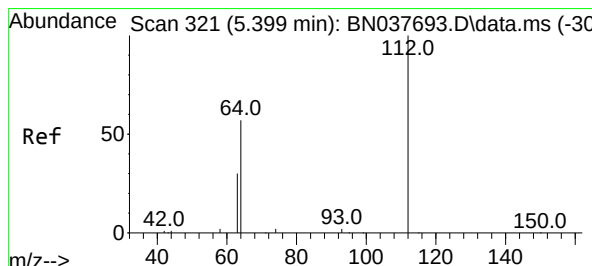
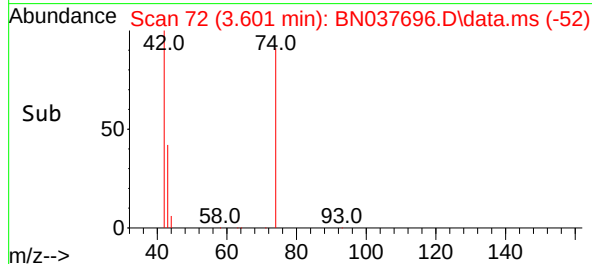
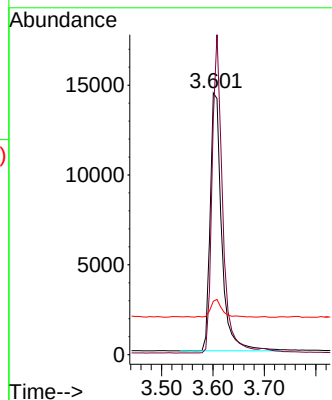
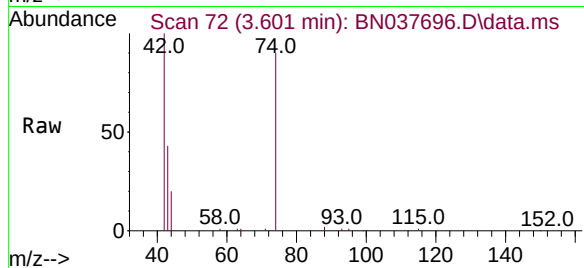




#3
n-Nitrosodimethylamine
Concen: 3.235 ng
RT: 3.601 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

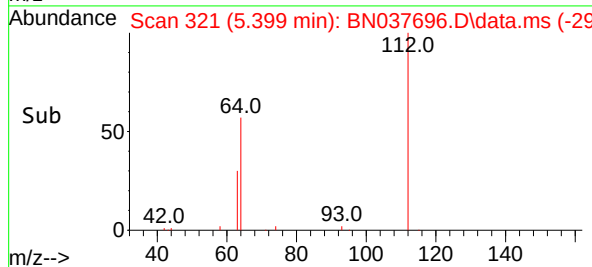
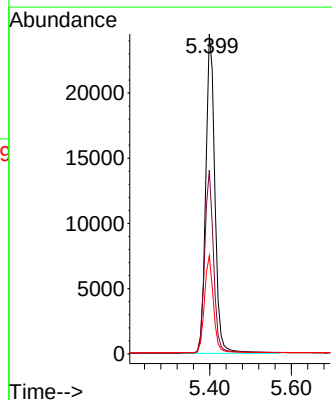
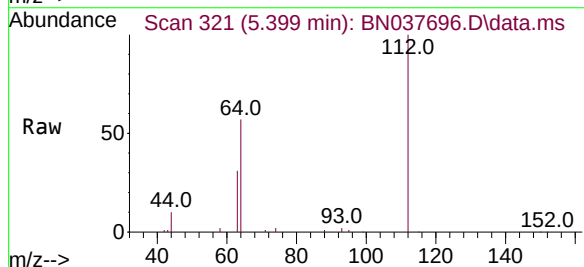
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

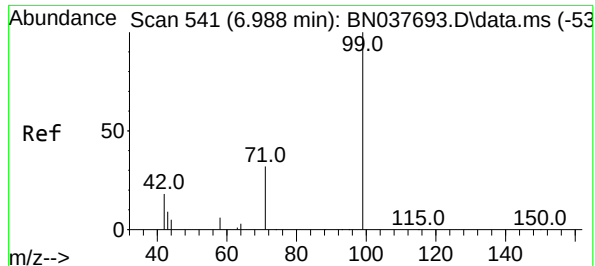
Tgt Ion: 42 Resp: 22382
Ion Ratio Lower Upper
42 100
74 112.2 86.0 129.0
44 6.7 8.4 12.6#



#4
2-Fluorophenol
Concen: 3.266 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion: 112 Resp: 38119
Ion Ratio Lower Upper
112 100
64 56.4 44.9 67.3
63 29.6 24.7 37.1

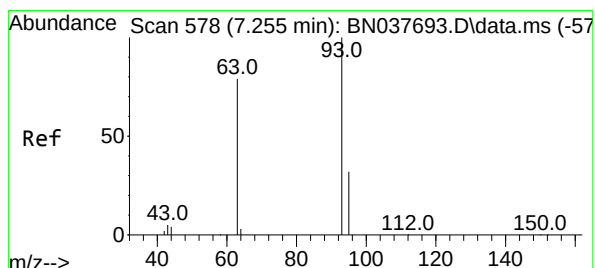
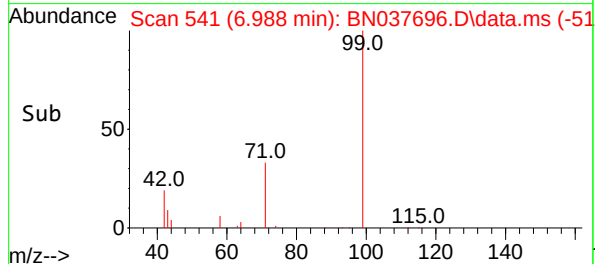
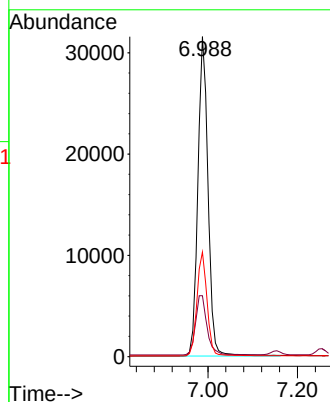
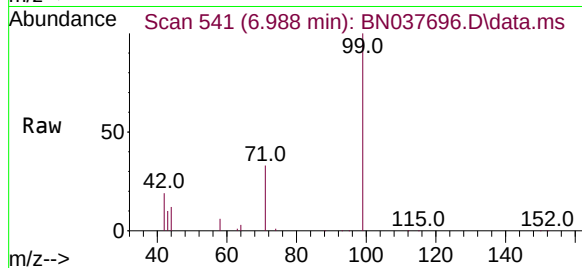




#5
Phenol-d6
Concen: 3.291 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

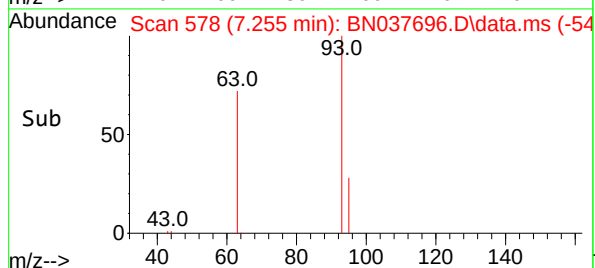
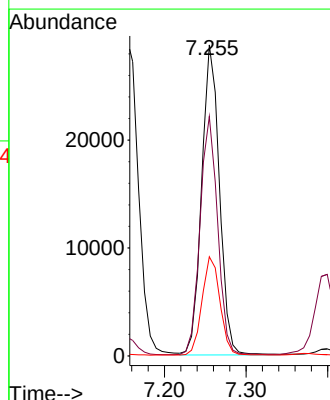
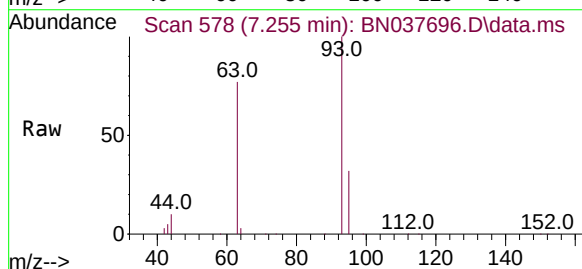
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

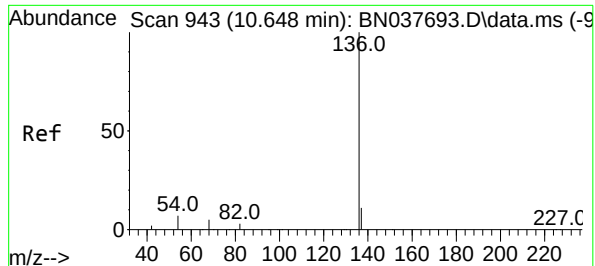
Tgt Ion: 99 Resp: 49810
Ion Ratio Lower Upper
99 100
42 21.0 16.6 24.8
71 32.5 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 3.205 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion: 93 Resp: 43338
Ion Ratio Lower Upper
93 100
63 75.9 60.6 90.8
95 31.9 26.0 39.0

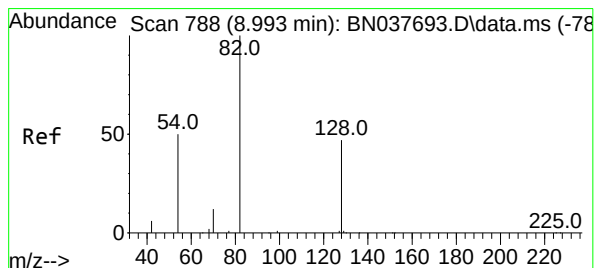
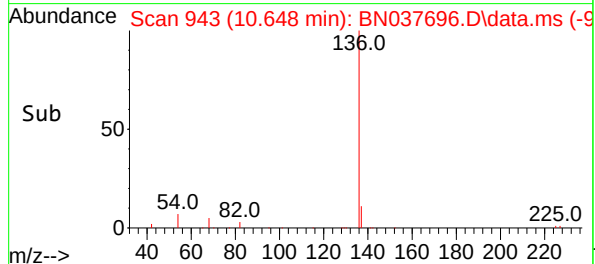
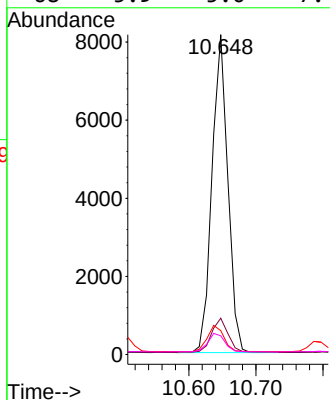
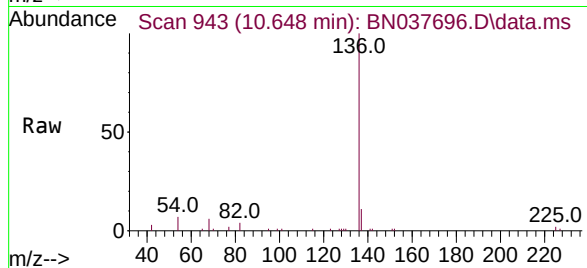




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

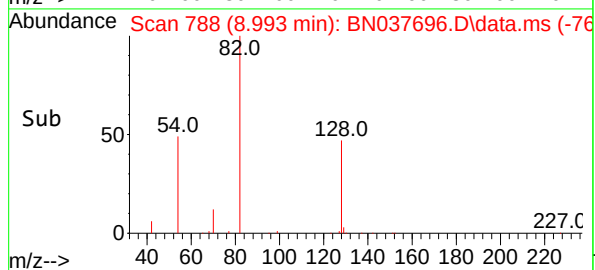
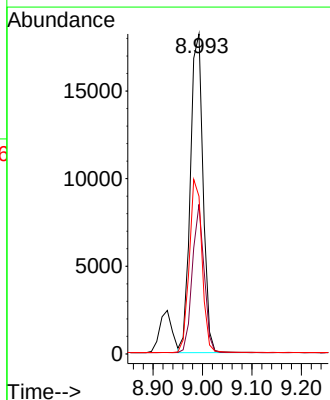
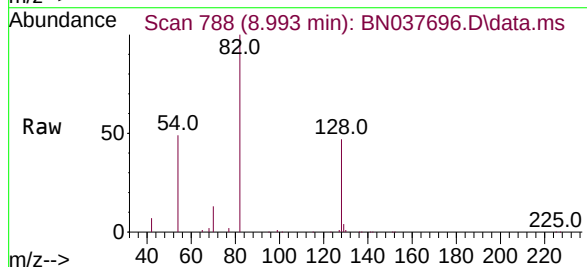
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

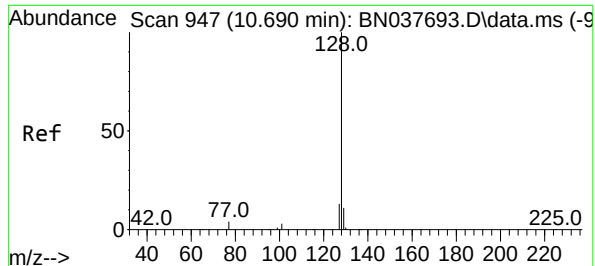
Tgt Ion:	136	Resp:	13375
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	7.5	6.3	9.5
68	5.9	5.0	7.4



#8
Nitrobenzene-d5
Concen: 3.314 ng
RT: 8.993 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:	82	Resp:	32423
Ion	Ratio	Lower	Upper
82	100		
128	46.7	38.3	57.5
54	49.2	41.4	62.2

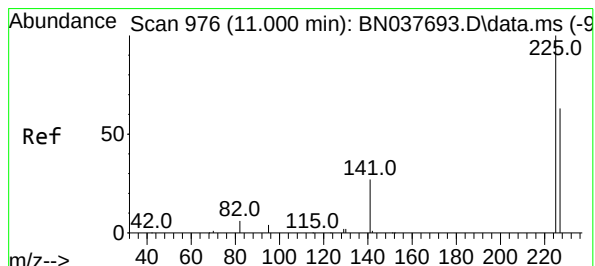
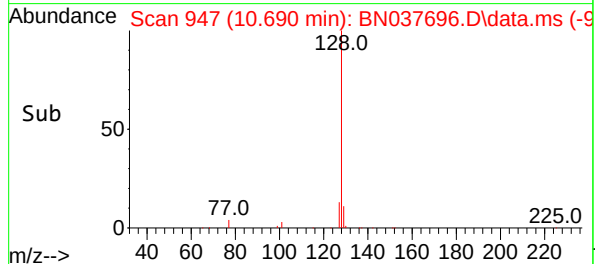
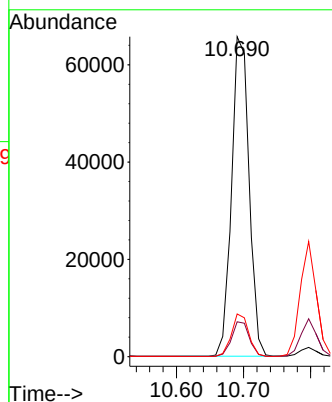
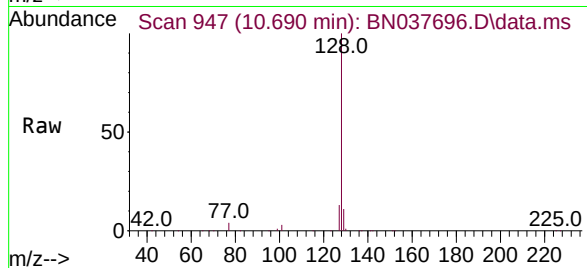




#9
Naphthalene
Concen: 3.264 ng
RT: 10.690 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

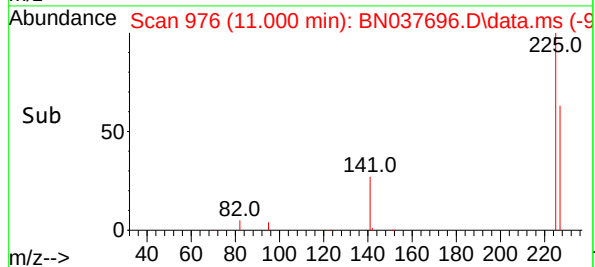
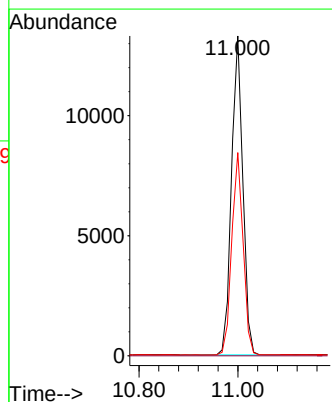
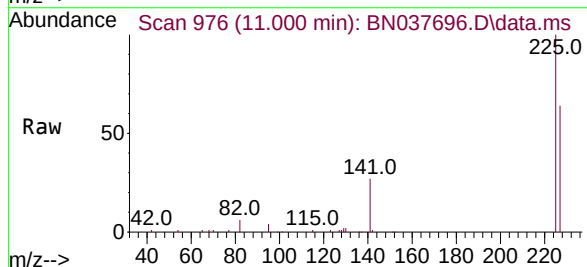
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

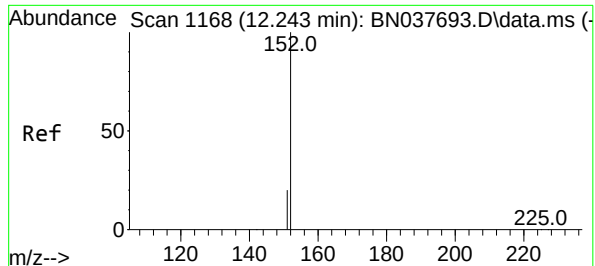
Tgt Ion:128 Resp: 119338
Ion Ratio Lower Upper
128 100
129 10.9 9.1 13.7
127 13.3 10.9 16.3



#10
Hexachlorobutadiene
Concen: 3.216 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:225 Resp: 21272
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 50.9 76.3

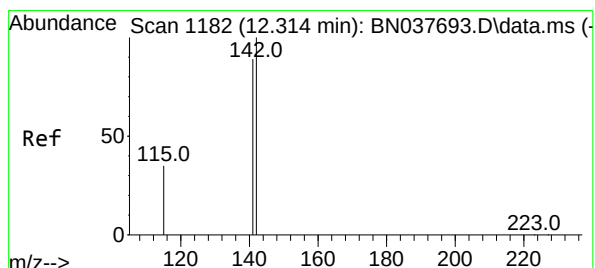
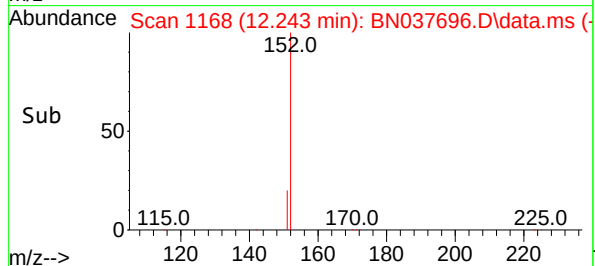
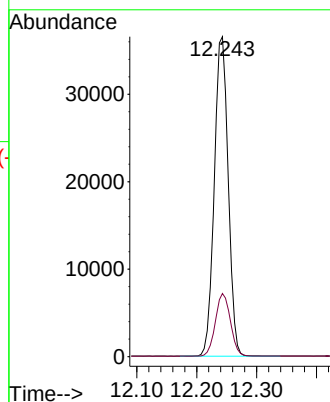
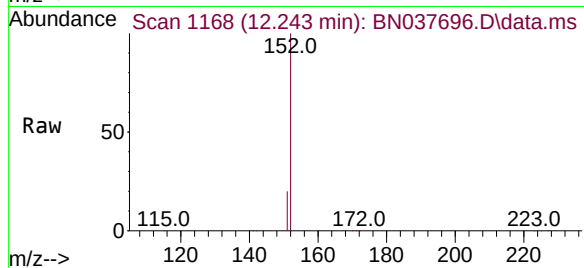




#11
2-Methylnaphthalene-d10
Concen: 3.319 ng
RT: 12.243 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

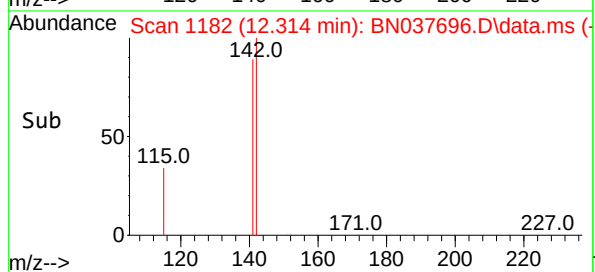
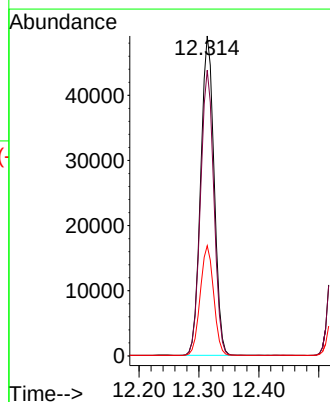
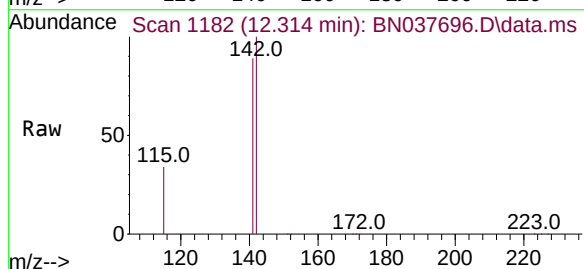
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

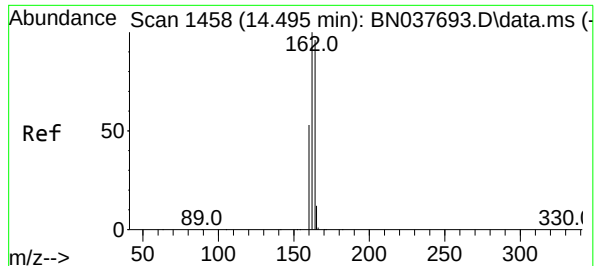
Tgt Ion:152 Resp: 58810
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6



#12
2-Methylnaphthalene
Concen: 3.368 ng
RT: 12.314 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:142 Resp: 76164
Ion Ratio Lower Upper
142 100
141 89.3 71.6 107.4
115 34.4 28.6 43.0

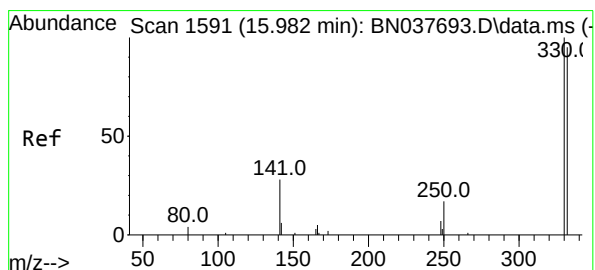
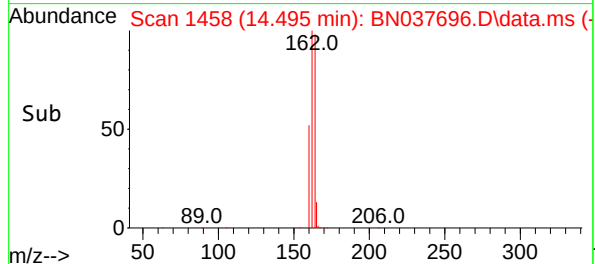
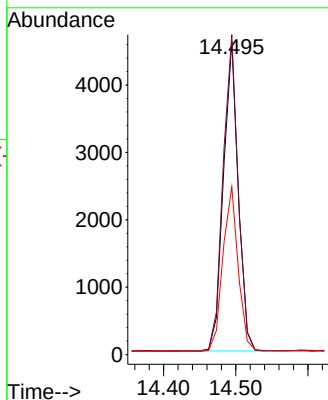
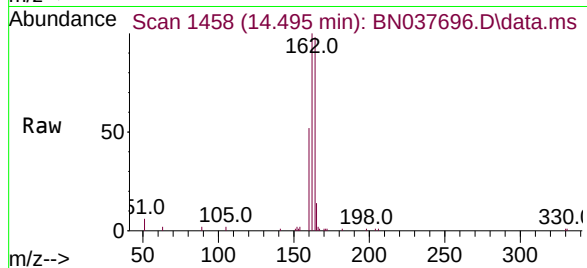




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

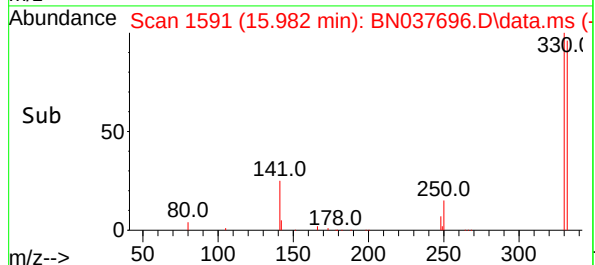
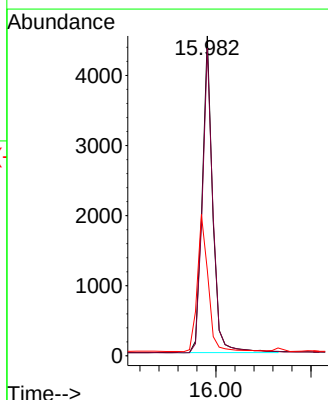
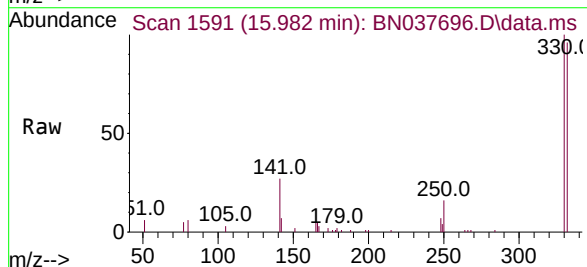
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

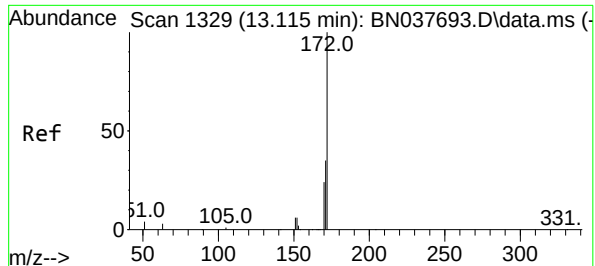
Tgt Ion:164 Resp: 6550
Ion Ratio Lower Upper
164 100
162 102.0 83.1 124.7
160 53.5 44.3 66.5



#14
2,4,6-Tribromophenol
Concen: 4.018 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:330 Resp: 6865
Ion Ratio Lower Upper
330 100
332 97.3 75.3 112.9
141 44.8 35.0 52.4

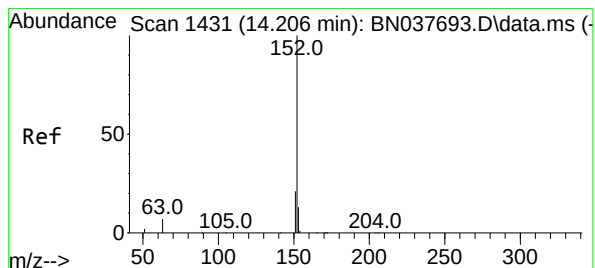
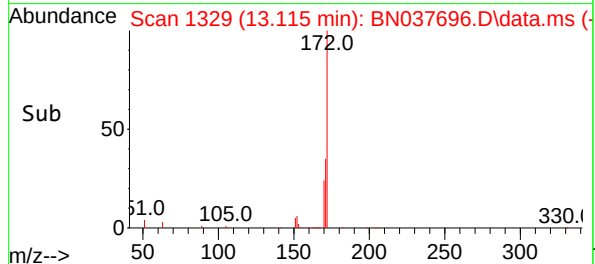
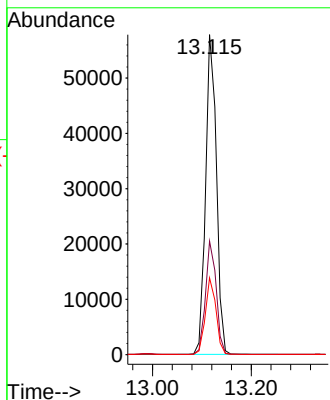
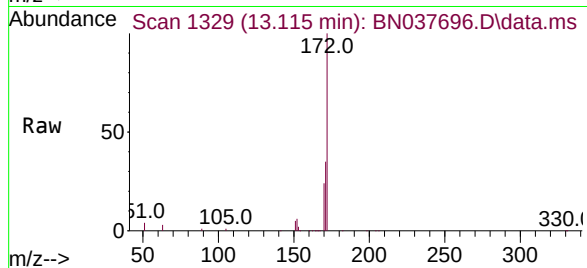




#15
2-Fluorobiphenyl
Concen: 3.202 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

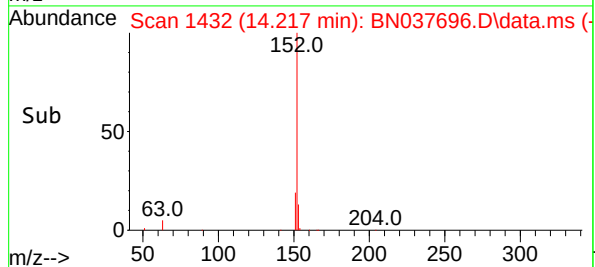
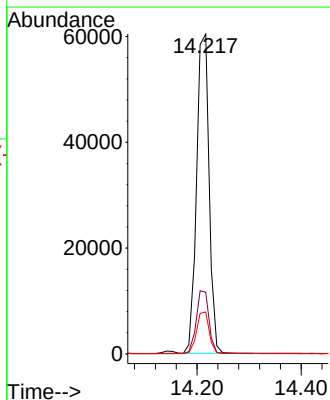
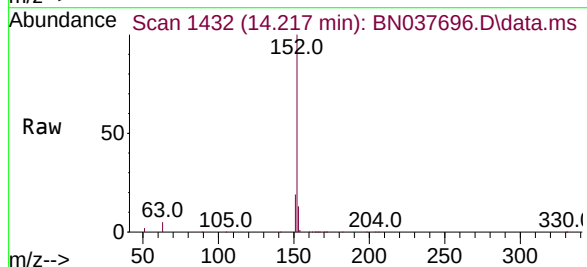
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

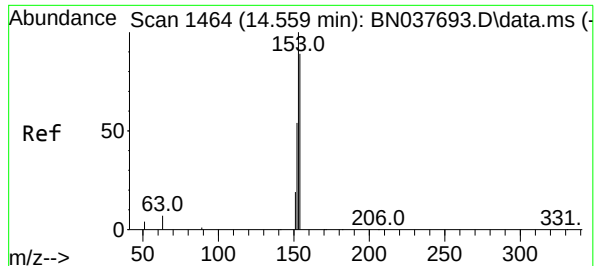
Tgt Ion:172 Resp: 87709
Ion Ratio Lower Upper
172 100
171 35.5 28.6 43.0
170 24.0 19.8 29.8



#16
Acenaphthylene
Concen: 3.342 ng
RT: 14.217 min Scan# 1432
Delta R.T. 0.011 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:152 Resp: 100382
Ion Ratio Lower Upper
152 100
151 19.9 16.2 24.2
153 13.0 10.4 15.6

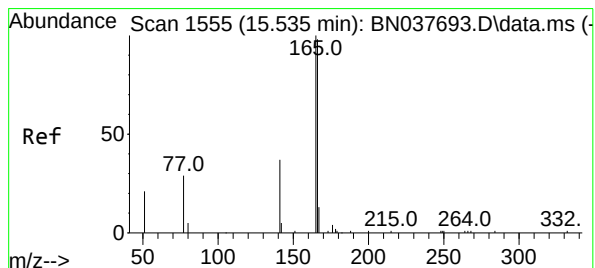
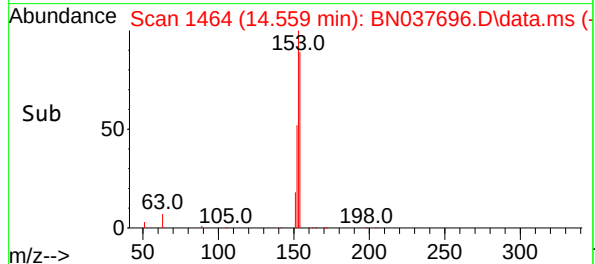
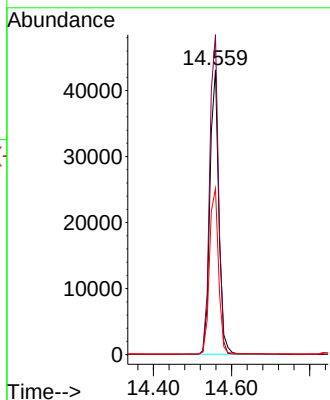
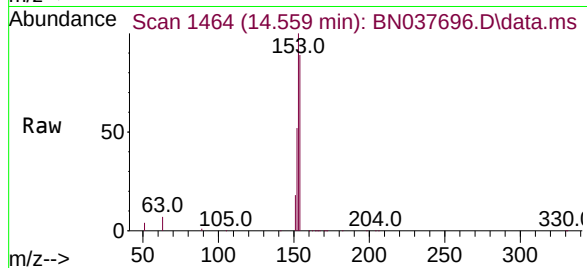




#17
Acenaphthene
Concen: 3.343 ng
RT: 14.559 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

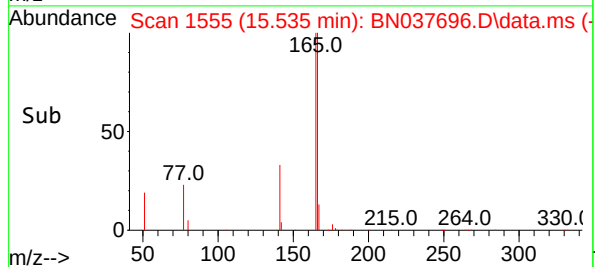
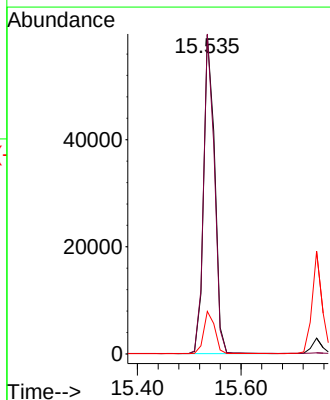
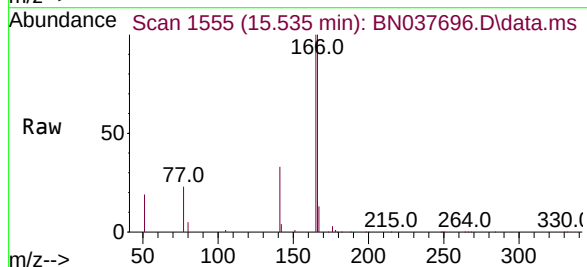
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

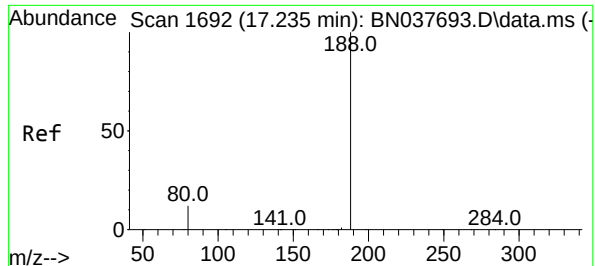
Tgt Ion:154 Resp: 67901
Ion Ratio Lower Upper
154 100
153 111.5 89.8 134.8
152 59.8 50.2 75.2



#18
Fluorene
Concen: 3.479 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:166 Resp: 85576
Ion Ratio Lower Upper
166 100
165 96.7 79.6 119.4
167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037696.D

Acq: 11 Sep 2025 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

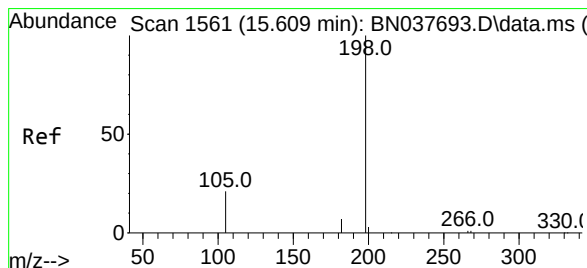
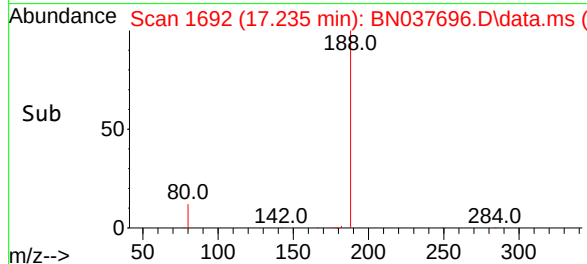
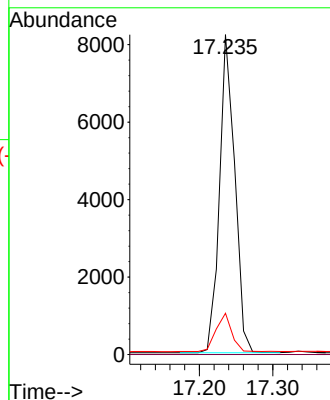
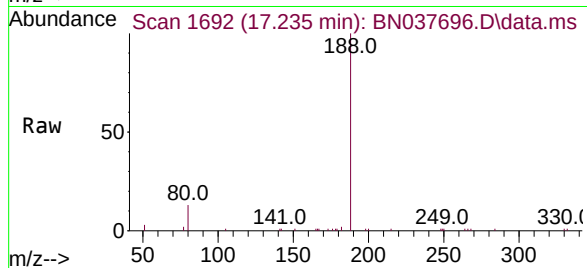
Tgt Ion:188 Resp: 11925

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.9 10.6 15.8



#20

4,6-Dinitro-2-methylphenol

Concen: 4.008 ng

RT: 15.609 min Scan# 1561

Delta R.T. 0.000 min

Lab File: BN037696.D

Acq: 11 Sep 2025 12:56

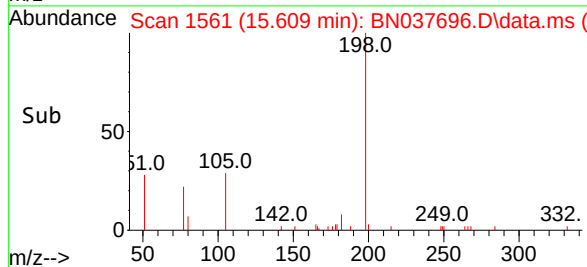
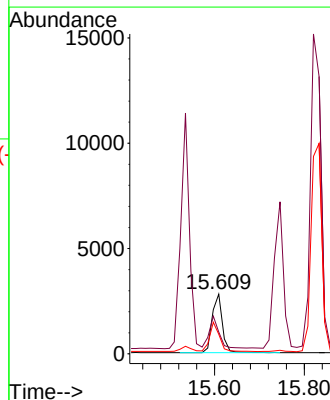
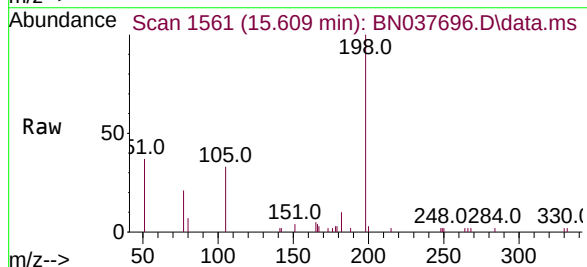
Tgt Ion:198 Resp: 4427

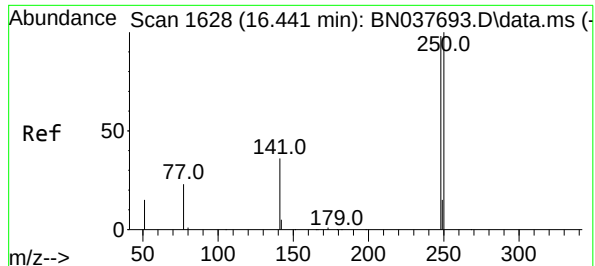
Ion Ratio Lower Upper

198 100

51 36.6 95.1 142.7#

105 32.9 53.8 80.6#

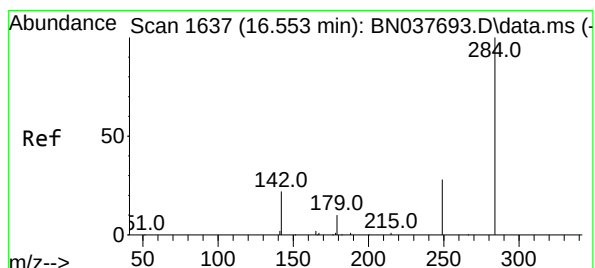
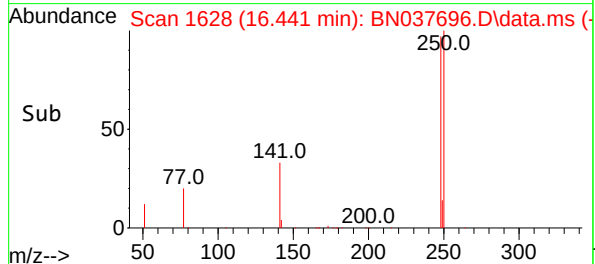
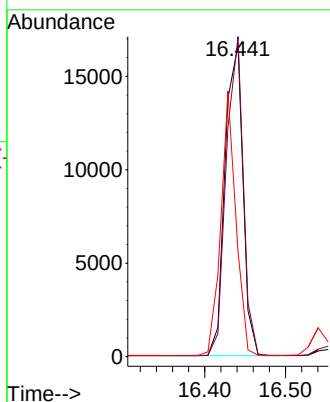
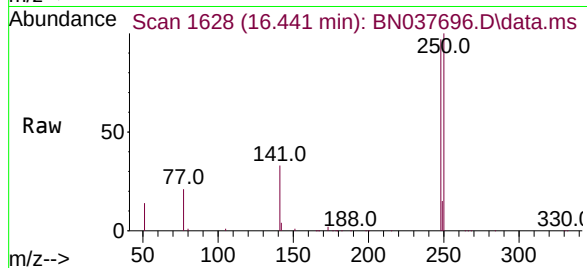




#21
4-Bromophenyl-phenylether
Concen: 3.300 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

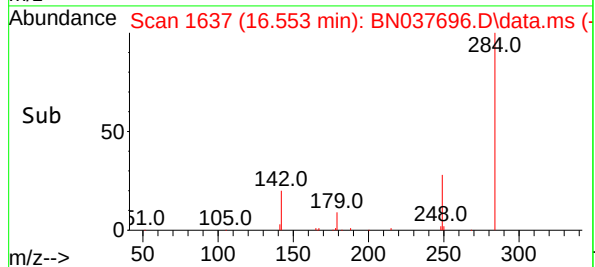
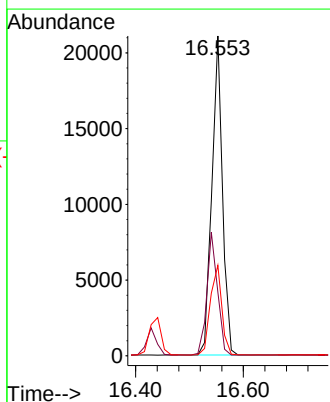
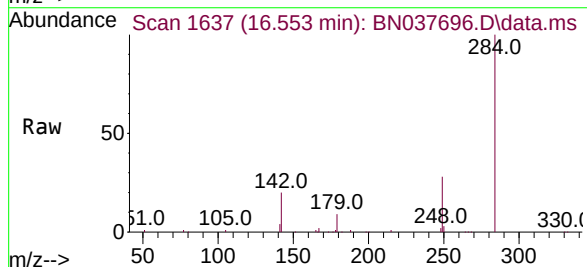
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

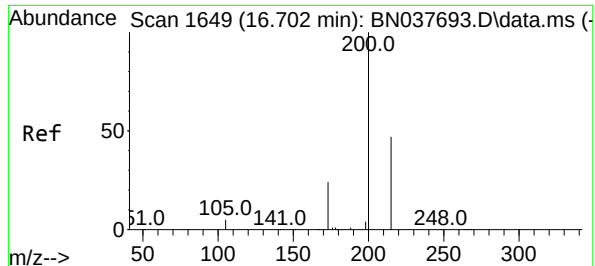
Tgt Ion	248	250	141
Resp:	25659		
Ion Ratio	100	102.8	33.7
Lower		81.5	30.8
Upper		122.3	46.2



#22
Hexachlorobenzene
Concen: 3.226 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion	284	142	249
Resp:	28853		
Ion Ratio	100	38.5	30.4
Lower		30.9	24.8
Upper		46.3	37.2

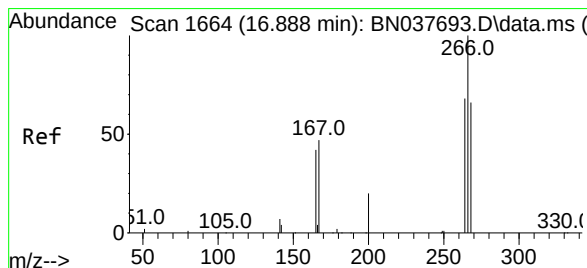
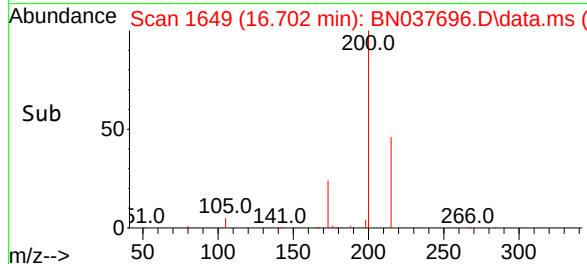
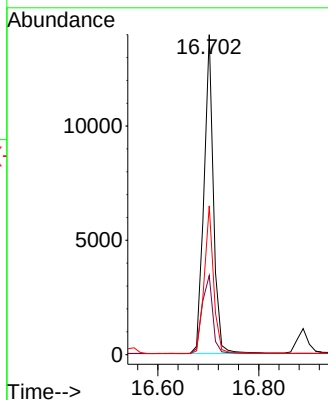
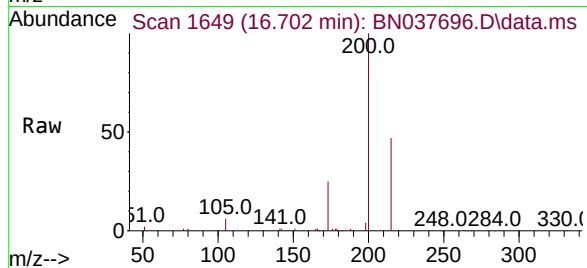




#23
Atrazine
Concen: 3.670 ng
RT: 16.702 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

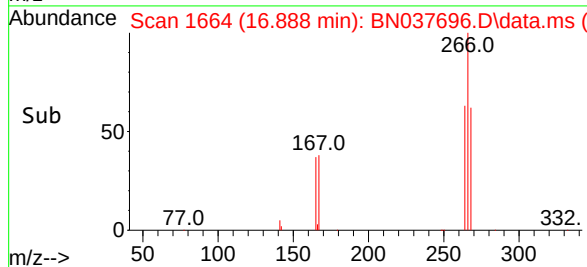
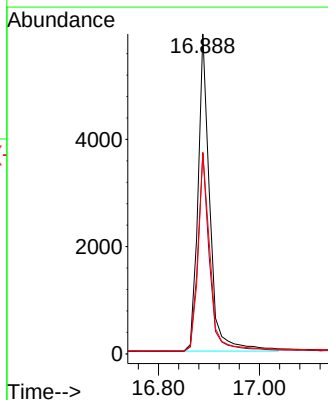
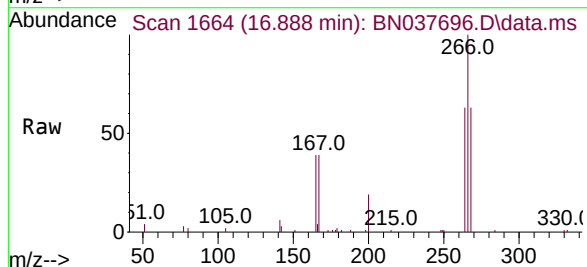
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

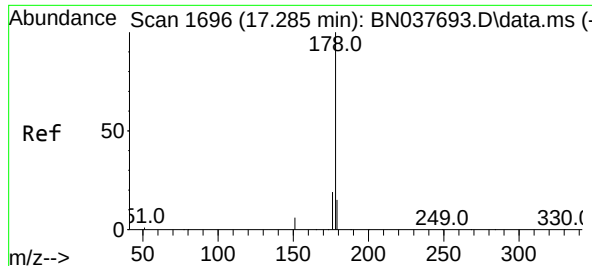
Tgt Ion	Ratio	Lower	Upper
200	100		
173	24.7	21.4	32.2
215	46.5	39.2	58.8



#24
Pentachlorophenol
Concen: 3.678 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.5	51.6	77.4
268	63.4	53.2	79.8

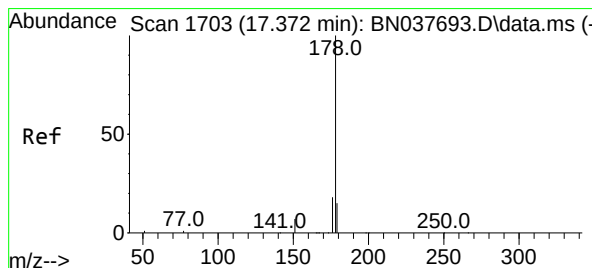
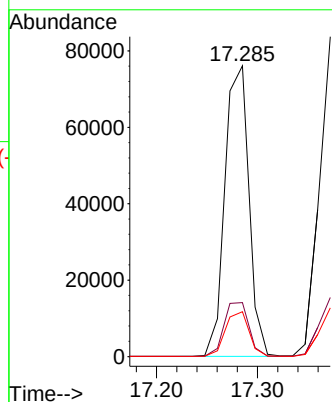
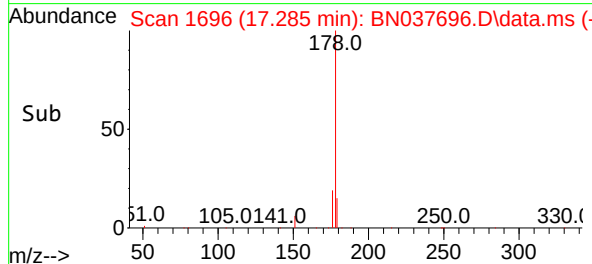
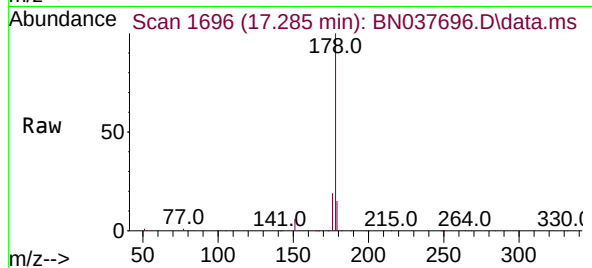




#25
Phenanthrene
Concen: 3.355 ng
RT: 17.285 min Scan# 1696
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

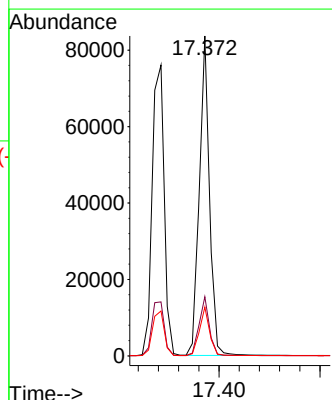
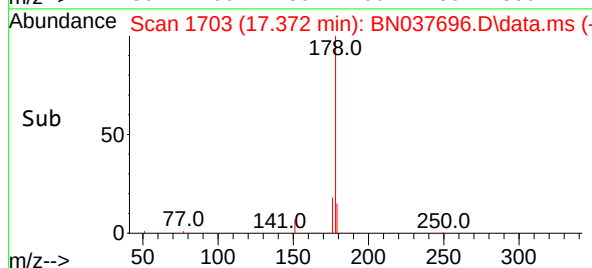
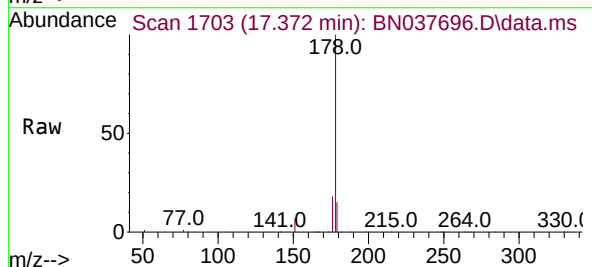
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

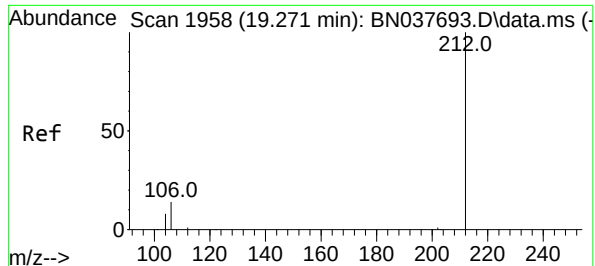
Tgt Ion:178 Resp: 125980
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.2 12.2 18.2



#26
Anthracene
Concen: 3.501 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:178 Resp: 116443
Ion Ratio Lower Upper
178 100
176 18.5 14.6 22.0
179 15.2 12.2 18.4





#27

Fluoranthene-d10

Concen: 3.531 ng

RT: 19.267 min Scan# 1957

Delta R.T. -0.005 min

Lab File: BN037696.D

Acq: 11 Sep 2025 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

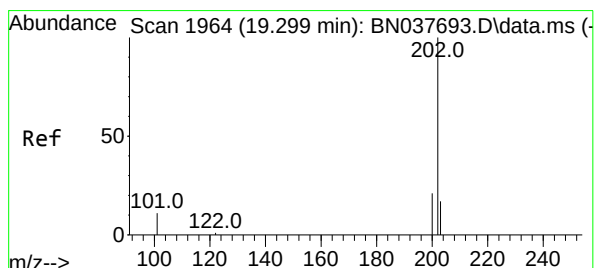
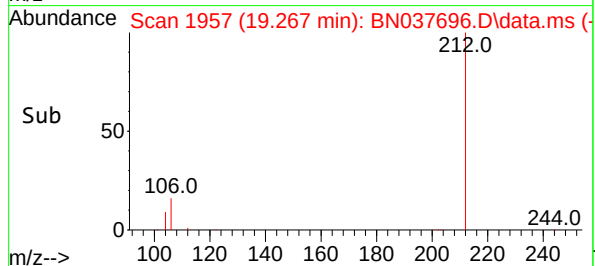
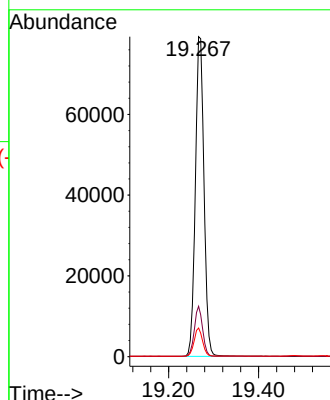
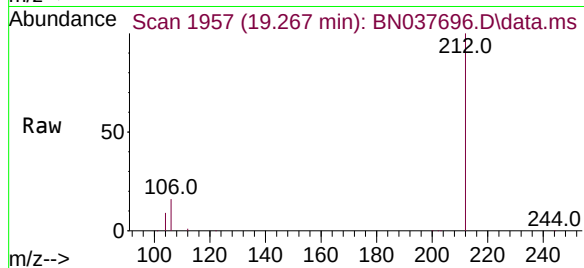
Tgt Ion:212 Resp: 105719

Ion Ratio Lower Upper

212 100

106 15.0 12.2 18.2

104 8.5 6.9 10.3



#28

Fluoranthene

Concen: 3.657 ng

RT: 19.299 min Scan# 1964

Delta R.T. -0.000 min

Lab File: BN037696.D

Acq: 11 Sep 2025 12:56

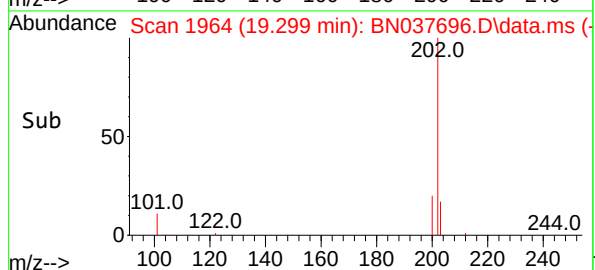
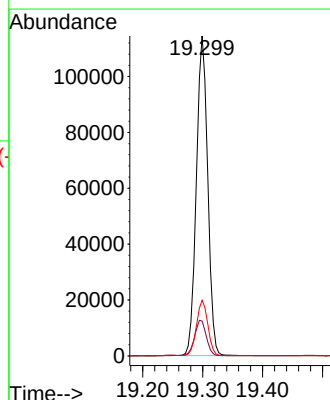
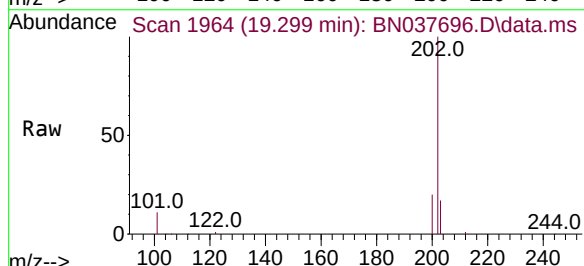
Tgt Ion:202 Resp: 150569

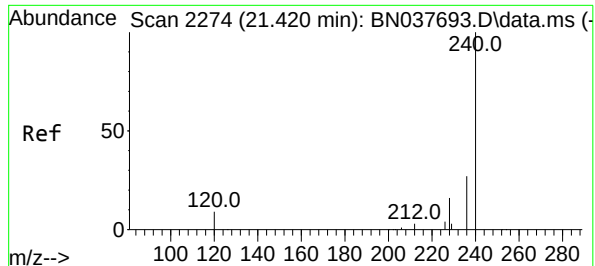
Ion Ratio Lower Upper

202 100

101 11.5 9.3 13.9

203 17.3 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.420 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037696.D

Acq: 11 Sep 2025 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

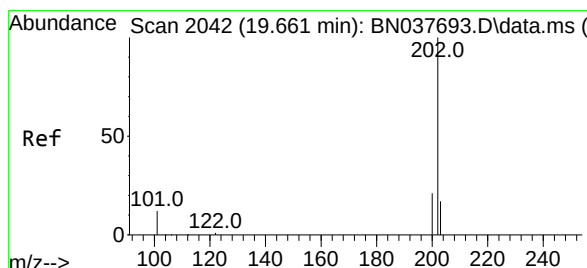
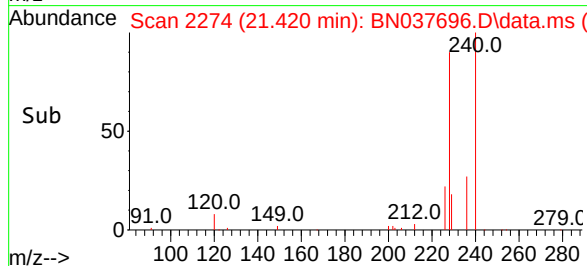
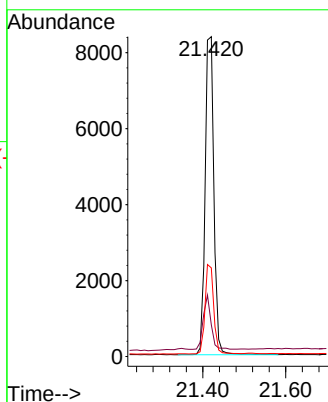
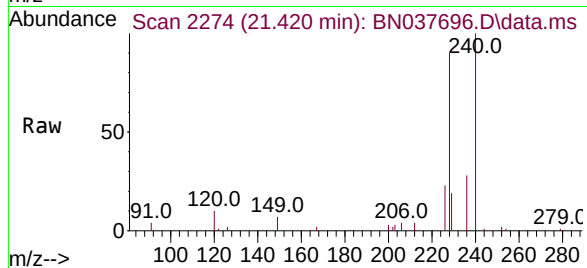
Tgt Ion:240 Resp: 12141

Ion Ratio Lower Upper

240 100

120 9.9 9.2 13.8

236 27.7 22.6 33.8



#30

Pyrene

Concen: 3.152 ng

RT: 19.661 min Scan# 2042

Delta R.T. -0.000 min

Lab File: BN037696.D

Acq: 11 Sep 2025 12:56

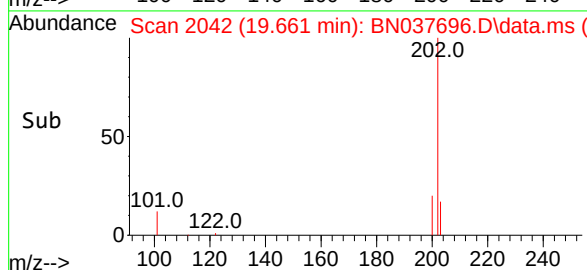
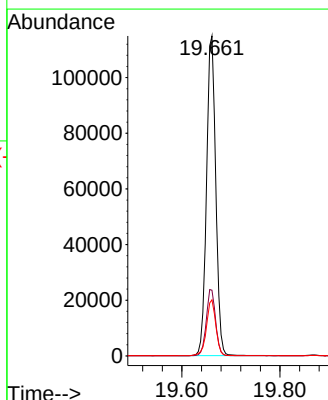
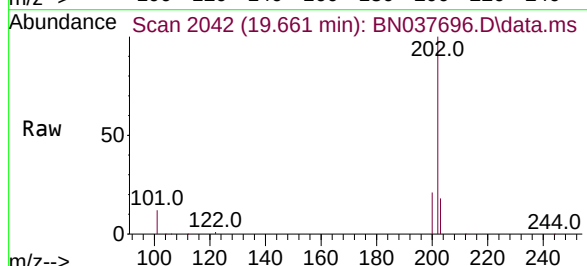
Tgt Ion:202 Resp: 149814

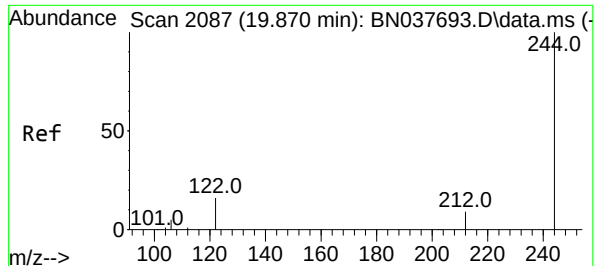
Ion Ratio Lower Upper

202 100

200 20.9 16.8 25.2

203 17.7 14.3 21.5

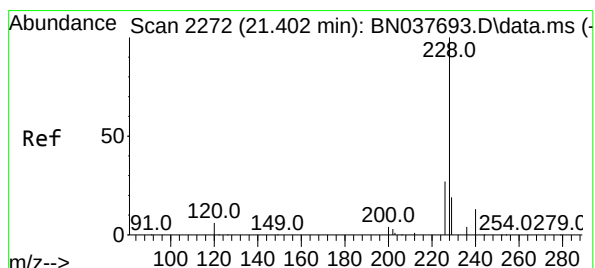
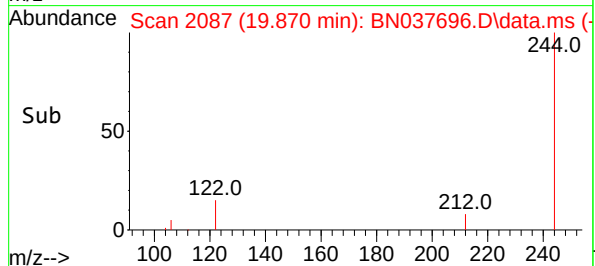
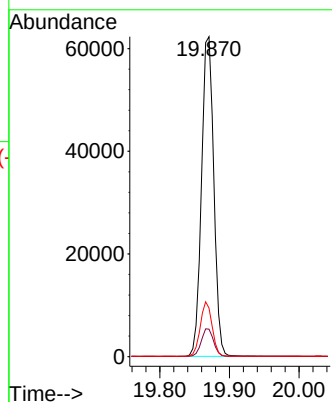
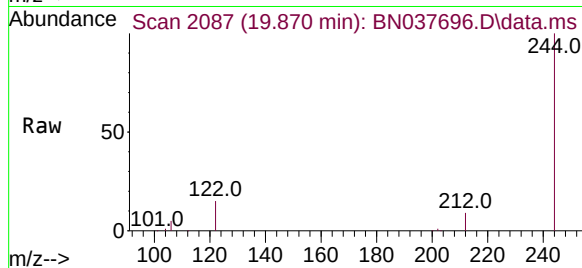




#31
Terphenyl-d14
Concen: 3.090 ng
RT: 19.870 min Scan# 2087
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

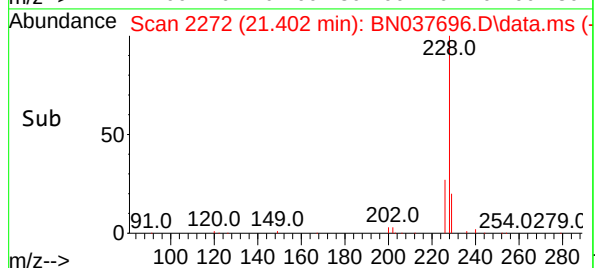
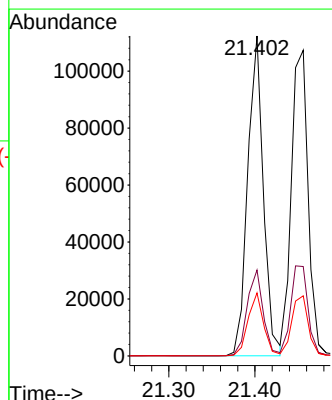
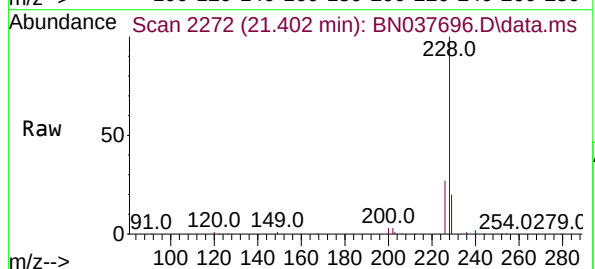
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

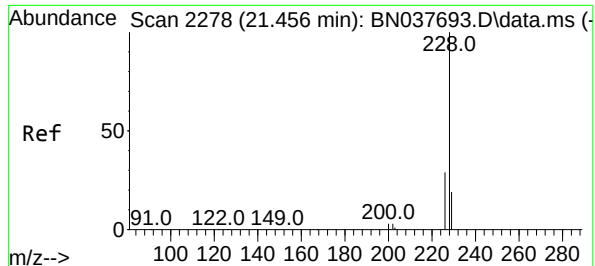
Tgt Ion:244 Resp: 76156
Ion Ratio Lower Upper
244 100
212 8.6 7.5 11.3
122 15.2 13.2 19.8



#32
Benzo(a)anthracene
Concen: 3.347 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:228 Resp: 141736
Ion Ratio Lower Upper
228 100
226 26.8 22.2 33.2
229 19.7 15.8 23.6

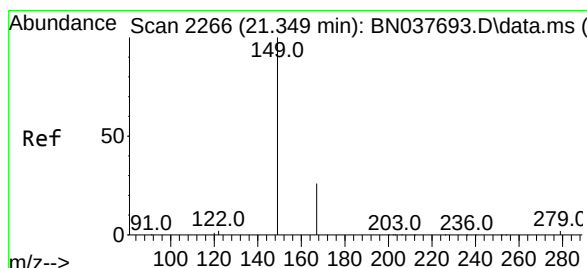
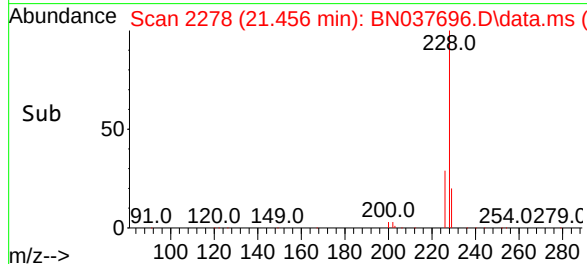
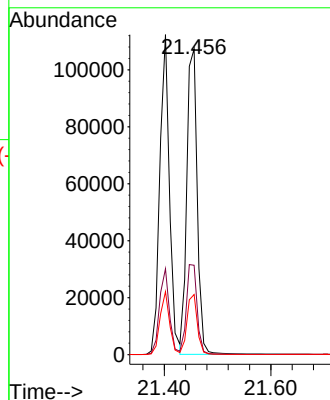
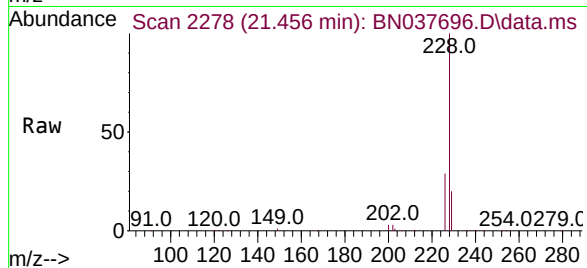




#33
Chrysene
Concen: 3.221 ng
RT: 21.456 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

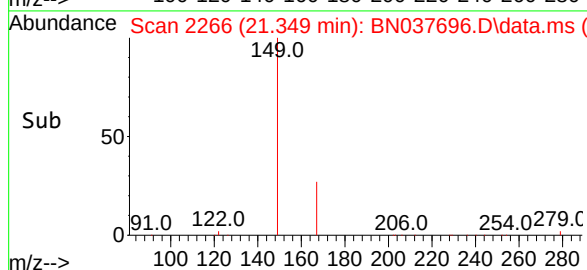
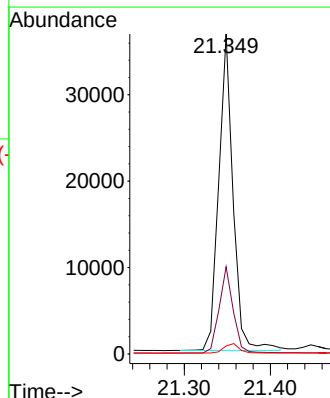
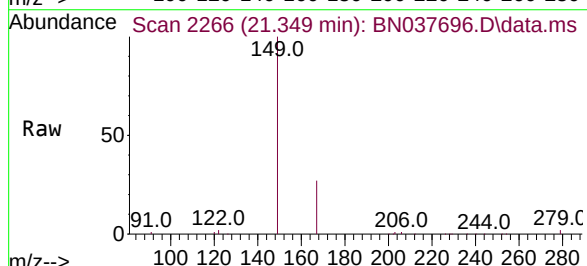
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

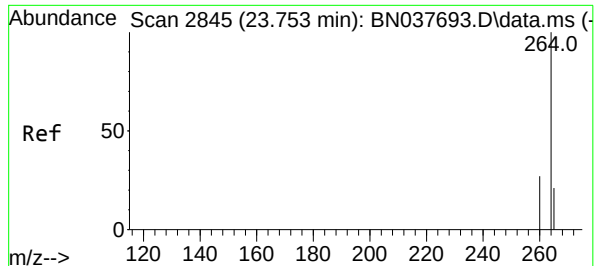
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.2	23.5	35.3
229	19.7	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 3.385 ng
RT: 21.349 min Scan# 2266
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

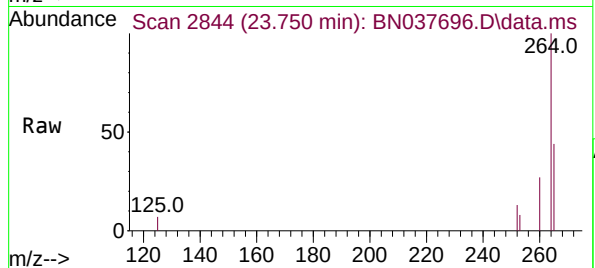
Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.6	20.8	31.2
279	3.1	3.3	4.9#



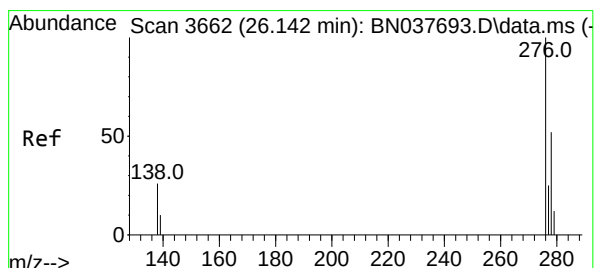
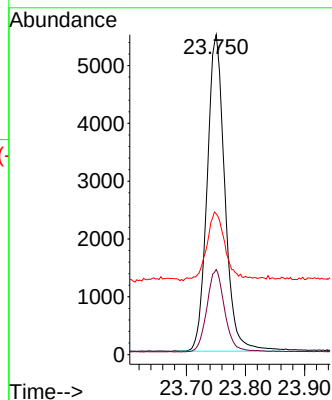
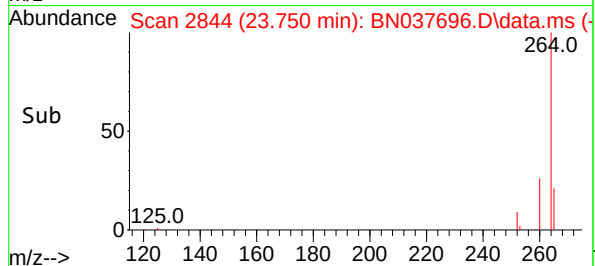


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.750 min Scan# 2844
Delta R.T. -0.003 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

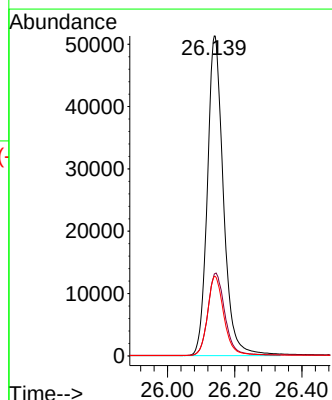
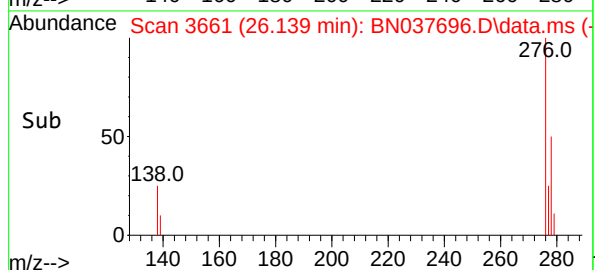
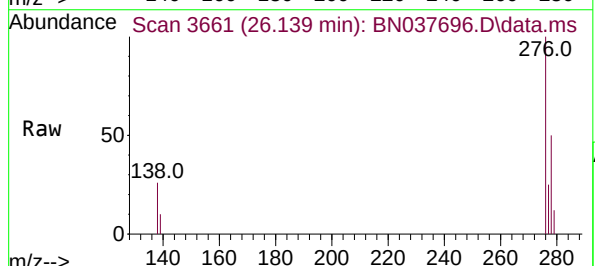


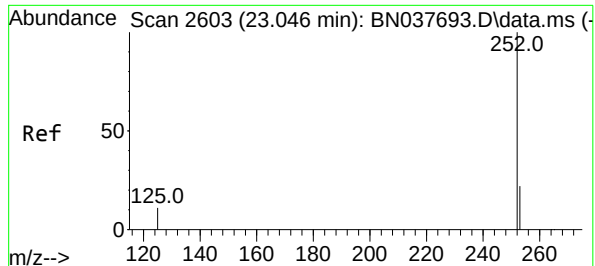
Tgt Ion:264 Resp: 11403
Ion Ratio Lower Upper
264 100
260 26.6 21.8 32.8
265 44.0 39.4 59.2



#36
Indeno(1,2,3-cd)pyrene
Concen: 3.551 ng
RT: 26.139 min Scan# 3661
Delta R.T. -0.003 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:276 Resp: 170120
Ion Ratio Lower Upper
276 100
138 27.3 21.9 32.9
277 25.3 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 3.401 ng

RT: 23.046 min Scan# 2603

Delta R.T. -0.000 min

Lab File: BN037696.D

Acq: 11 Sep 2025 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

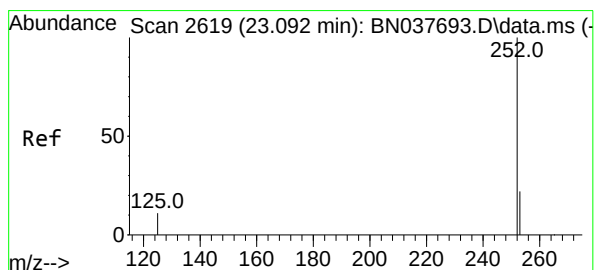
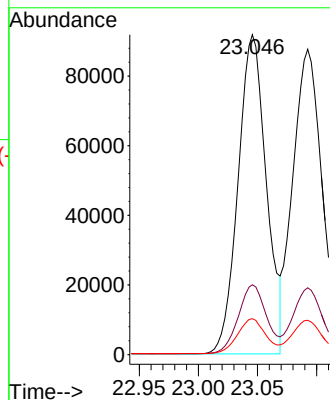
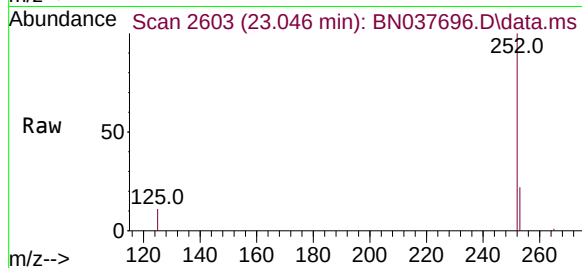
Tgt Ion:252 Resp: 152726

Ion Ratio Lower Upper

252 100

253 21.8 19.4 29.2

125 11.2 11.2 16.8



#38

Benzo(k)fluoranthene

Concen: 3.378 ng

RT: 23.092 min Scan# 2619

Delta R.T. -0.000 min

Lab File: BN037696.D

Acq: 11 Sep 2025 12:56

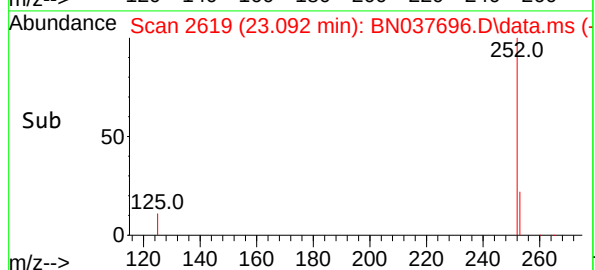
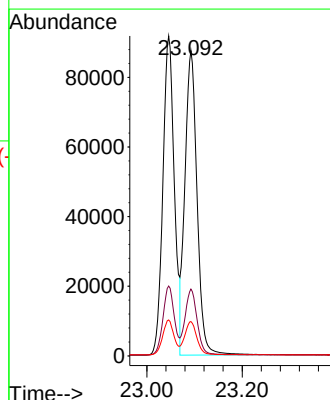
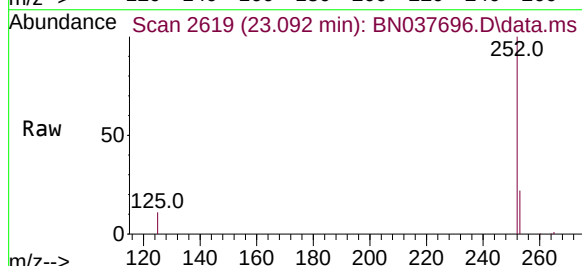
Tgt Ion:252 Resp: 154690

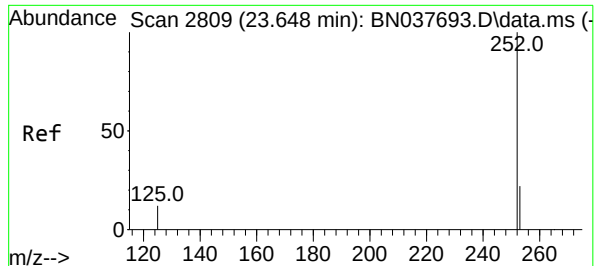
Ion Ratio Lower Upper

252 100

253 21.9 19.4 29.0

125 11.3 11.6 17.4#





#39

Benzo(a)pyrene

Concen: 3.469 ng

RT: 23.648 min Scan# 2809

Delta R.T. -0.000 min

Lab File: BN037696.D

Acq: 11 Sep 2025 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

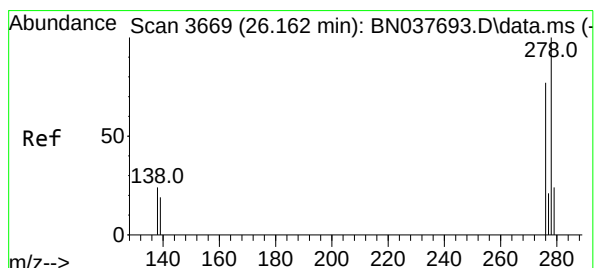
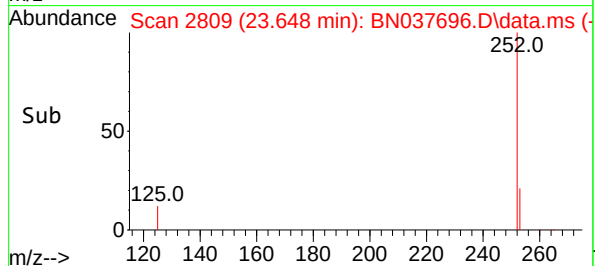
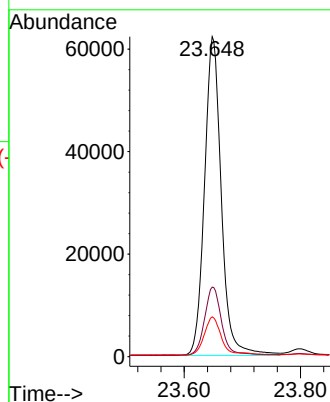
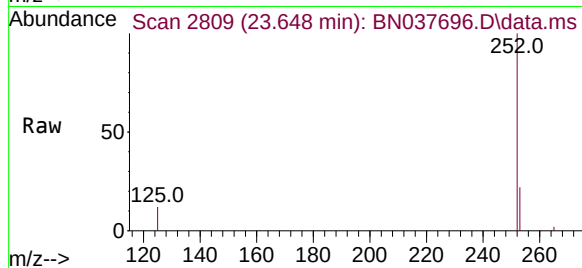
Tgt Ion:252 Resp: 124741

Ion Ratio Lower Upper

252 100

253 21.7 20.8 31.2

125 12.4 13.9 20.9#



#40

Dibenzo(a,h)anthracene

Concen: 3.623 ng

RT: 26.159 min Scan# 3668

Delta R.T. -0.003 min

Lab File: BN037696.D

Acq: 11 Sep 2025 12:56

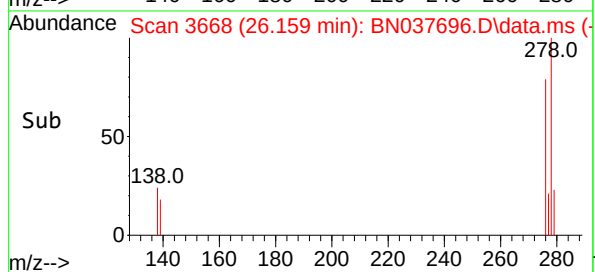
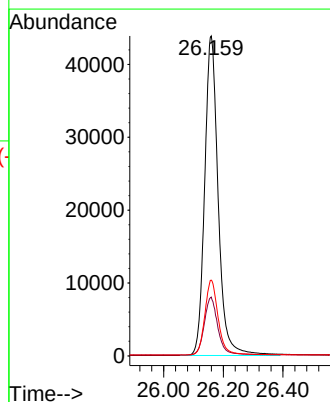
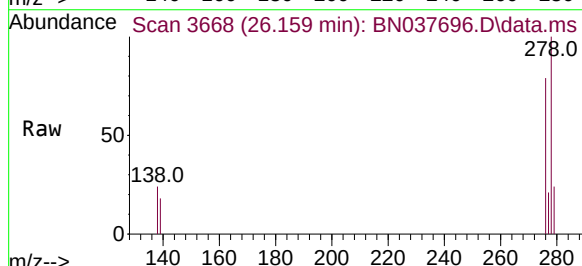
Tgt Ion:278 Resp: 138597

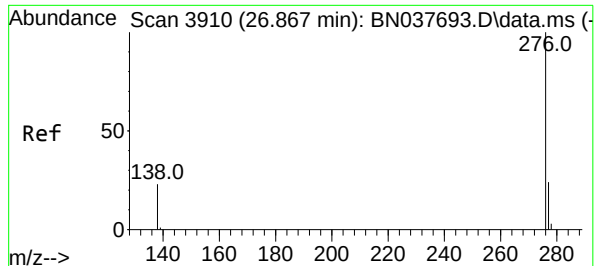
Ion Ratio Lower Upper

278 100

139 18.4 17.8 26.6

279 23.7 22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 3.415 ng

RT: 26.864 min Scan# 39

Delta R.T. -0.003 min

Lab File: BN037696.D

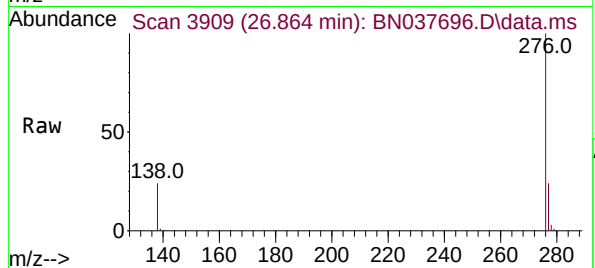
Acq: 11 Sep 2025 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



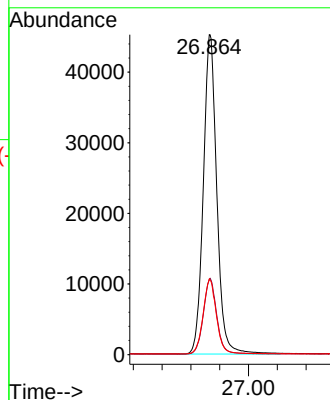
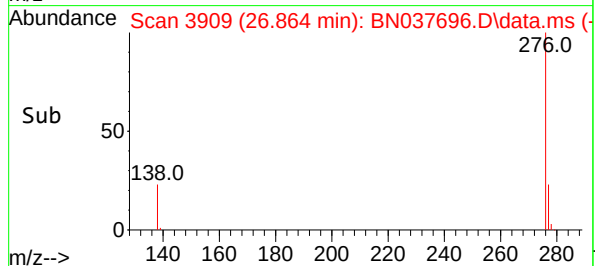
Tgt Ion:276 Resp: 146601

Ion Ratio Lower Upper

276 100

277 23.6 20.6 31.0

138 23.6 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
 Data File : BN037697.D
 Acq On : 11 Sep 2025 13:33
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Sep 11 14:07:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:02:44 2025
 Response via : Initial Calibration

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

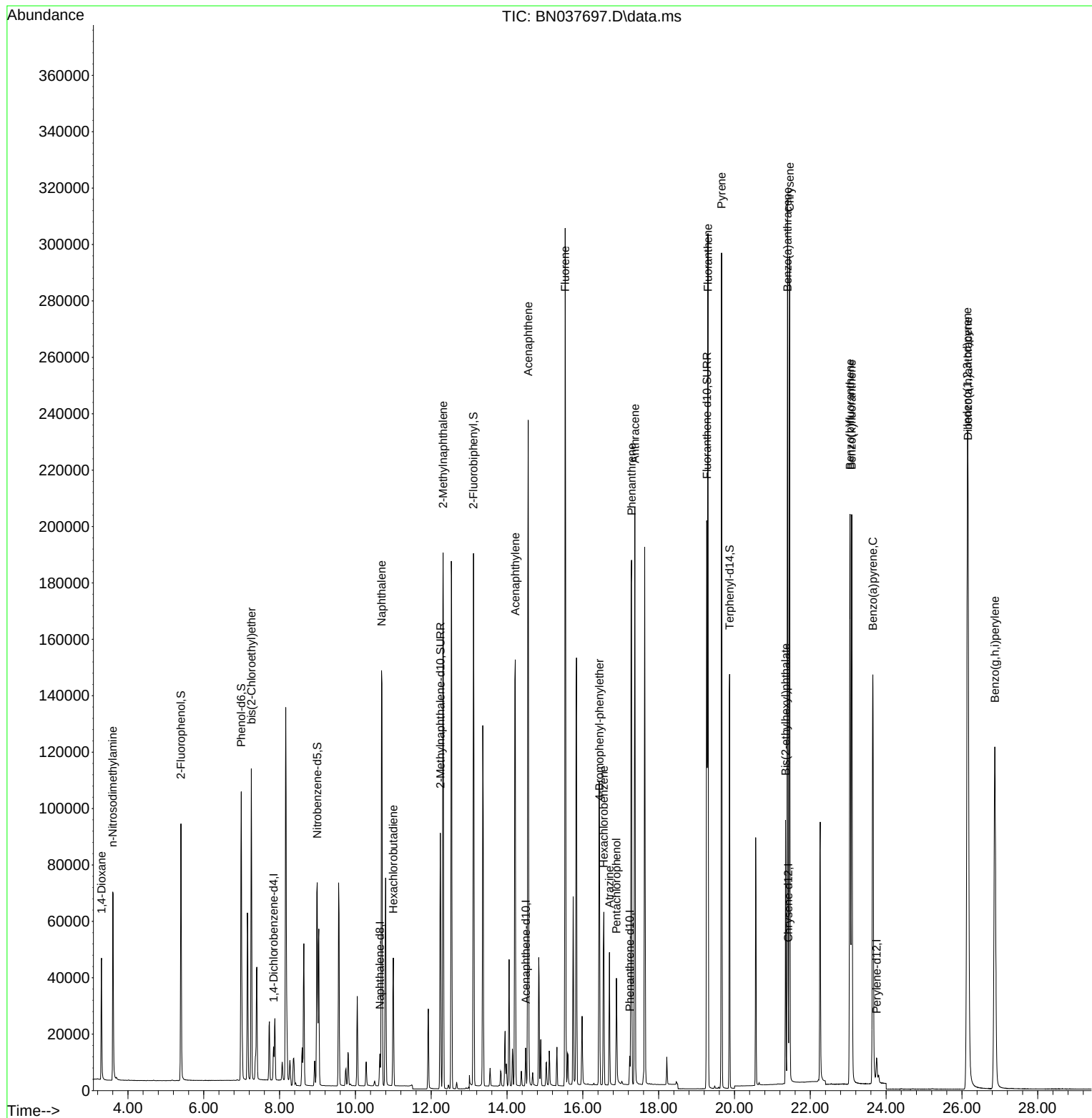
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	5654	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	14362	0.400	ng	0.00
13) Acenaphthene-d10	14.495	164	7056	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	12767	0.400	ng	0.00
29) Chrysene-d12	21.420	240	13060	0.400	ng	0.00
35) Perylene-d12	23.753	264	12009	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	70949	5.466	ng	0.00
5) Phenol-d6	6.988	99	91084	5.412	ng	0.00
8) Nitrobenzene-d5	8.993	82	58397	5.559	ng	0.00
11) 2-Methylnaphthalene-d10	12.243	152	119992	6.306	ng	0.00
14) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
15) 2-Fluorobiphenyl	13.115	172	157398	5.334	ng	0.00
27) Fluoranthene-d10	19.271	212	215419	6.721	ng	0.00
31) Terphenyl-d14	19.870	244	145595	5.493	ng	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	3.304	88	27447	4.661	ng	97
3) n-Nitrosodimethylamine	3.601	42	38960	5.064	ng	# 93
6) bis(2-Chloroethyl)ether	7.255	93	75108	4.995	ng	100
9) Naphthalene	10.690	128	206218	5.253	ng	99
10) Hexachlorobutadiene	11.000	225	36218	5.099	ng	# 100
12) 2-Methylnaphthalene	12.314	142	132802	5.469	ng	99
16) Acenaphthylene	14.217	152	178140	5.505	ng	100
17) Acenaphthene	14.559	154	118915	5.435	ng	97
18) Fluorene	15.535	166	147419	5.563	ng	99
21) 4-Bromophenyl-phenylether	16.441	248	45357	5.448	ng	98
22) Hexachlorobenzene	16.553	284	49411	5.160	ng	99
23) Atrazine	16.702	200	33341	6.295	ng	96
24) Pentachlorophenol	16.888	266	18297	6.581	ng	97
25) Phenanthrene	17.285	178	218722	5.441	ng	100
26) Anthracene	17.372	178	204421	5.741	ng	100
28) Fluoranthene	19.299	202	261250	5.926	ng	99
30) Pyrene	19.661	202	259551	5.077	ng	100
32) Benzo(a)anthracene	21.402	228	248434	5.454	ng	99
33) Chrysene	21.456	228	251956	5.158	ng	100
34) Bis(2-ethylhexyl)phtha...	21.349	149	82262	6.091	ng	# 99
36) Indeno(1,2,3-cd)pyrene	26.145	276	303960	6.024	ng	99
37) Benzo(b)fluoranthene	23.049	252	266973	5.645	ng	# 94
38) Benzo(k)fluoranthene	23.093	252	263641	5.466	ng	# 94
39) Benzo(a)pyrene	23.651	252	220208	5.816	ng	# 90
40) Dibenzo(a,h)anthracene	26.162	278	245606	6.096	ng	# 91
41) Benzo(g,h,i)perylene	26.867	276	258594	5.720	ng	95

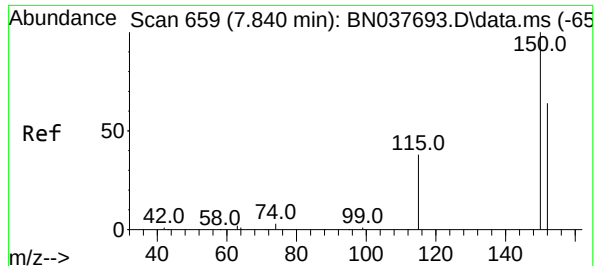
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037697.D
Acq On : 11 Sep 2025 13:33
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Sep 11 14:07:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration

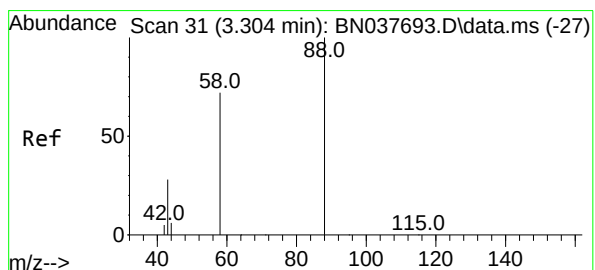
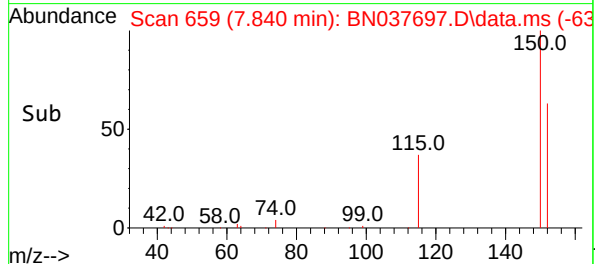
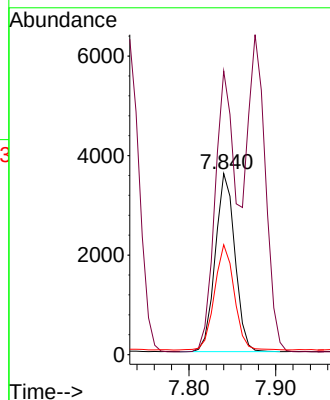
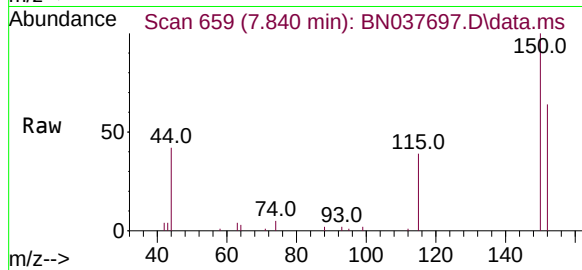




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

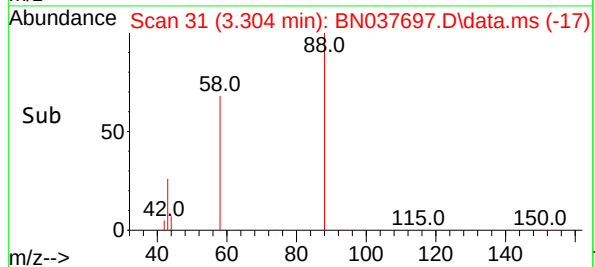
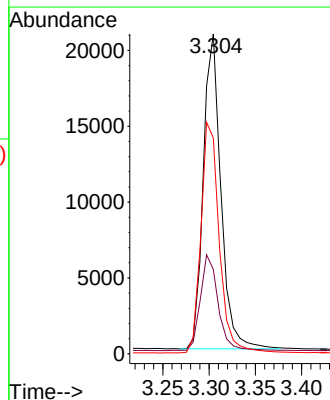
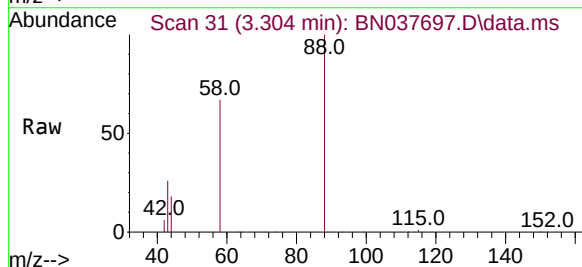
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

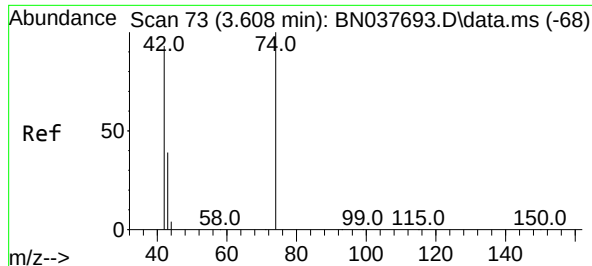
Tgt Ion:152 Resp: 5654
Ion Ratio Lower Upper
152 100
150 156.6 124.5 186.7
115 60.7 49.2 73.8



#2
1,4-Dioxane
Concen: 4.661 ng
RT: 3.304 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion: 88 Resp: 27447
Ion Ratio Lower Upper
88 100
43 30.7 26.8 40.2
58 76.0 61.9 92.9

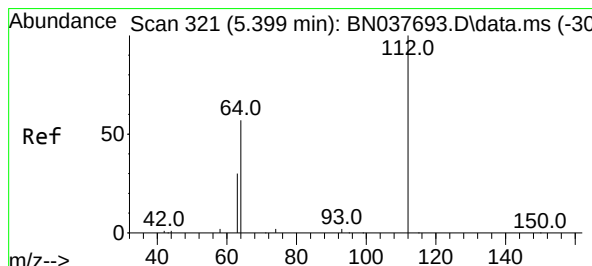
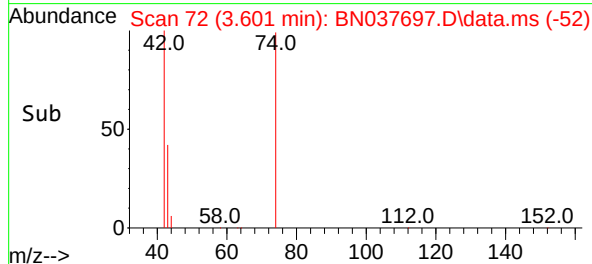
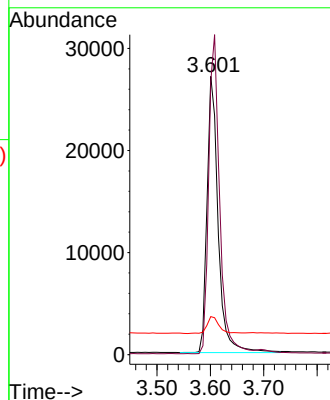
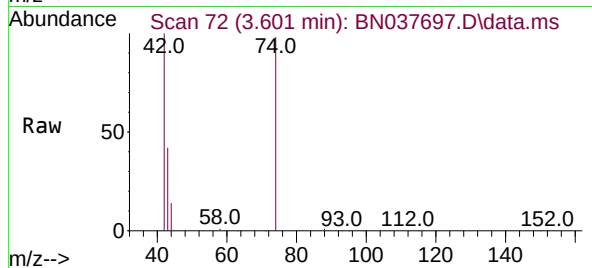




#3
n-Nitrosodimethylamine
Concen: 5.064 ng
RT: 3.601 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

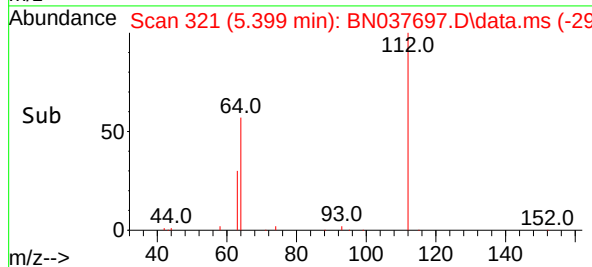
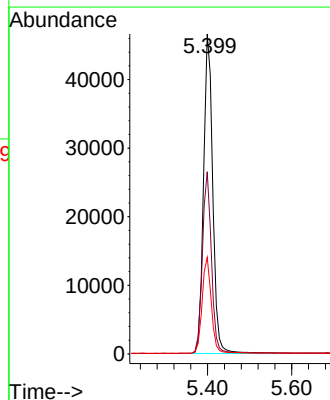
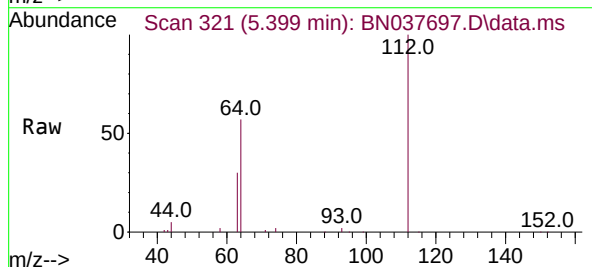
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

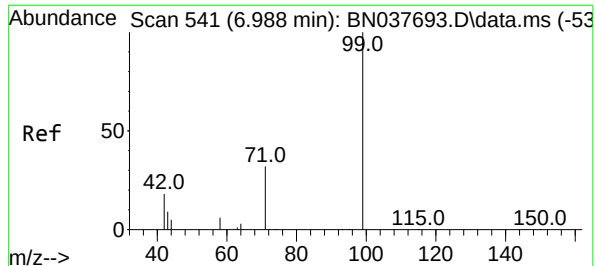
Tgt Ion: 42 Resp: 38960
Ion Ratio Lower Upper
42 100
74 114.1 86.0 129.0
44 6.6 8.4 12.6#



#4
2-Fluorophenol
Concen: 5.466 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion: 112 Resp: 70949
Ion Ratio Lower Upper
112 100
64 56.2 44.9 67.3
63 30.0 24.7 37.1

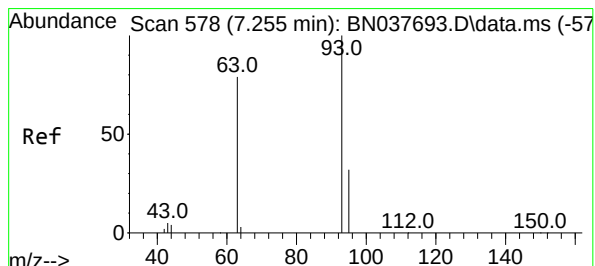
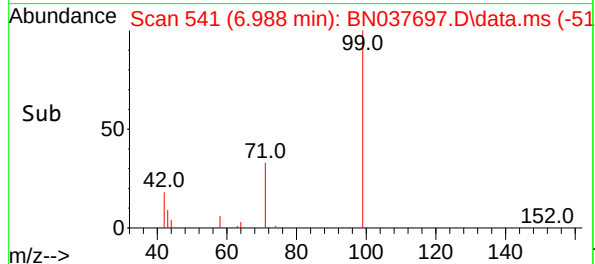
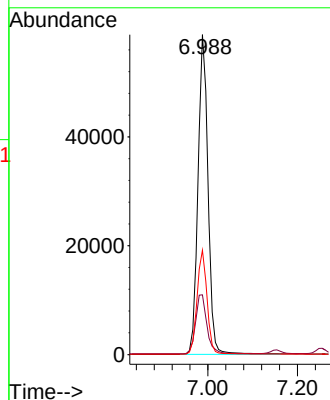
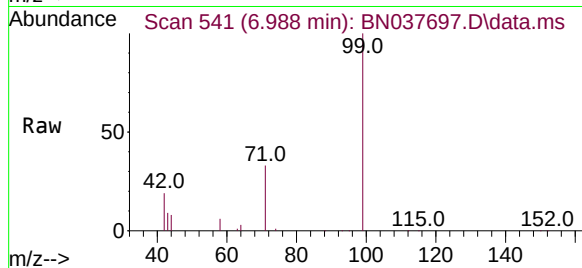




#5
Phenol-d6
Concen: 5.412 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

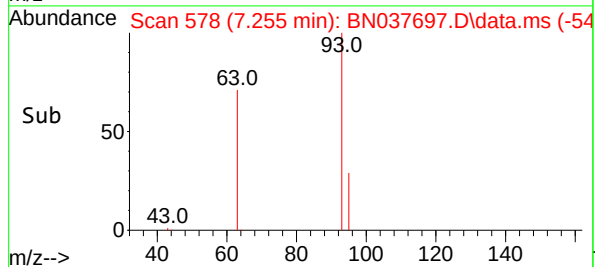
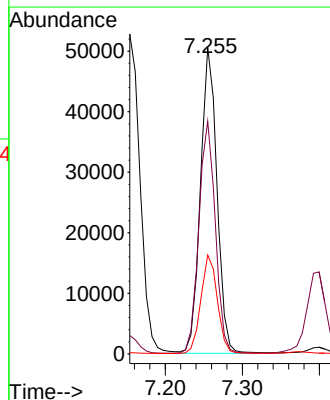
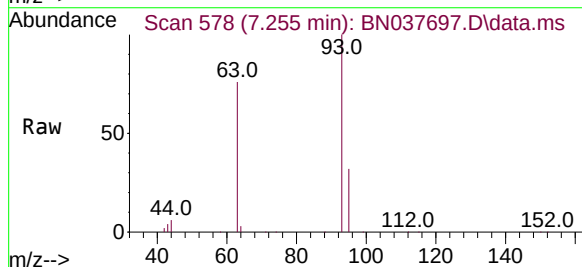
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

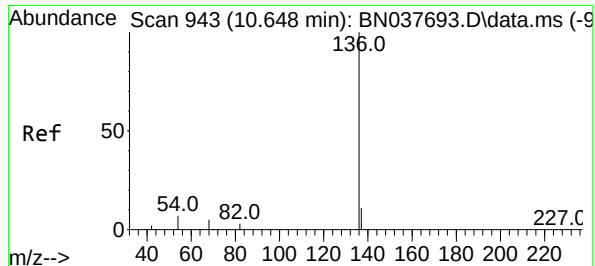
Tgt Ion: 99 Resp: 91084
Ion Ratio Lower Upper
99 100
42 20.8 16.6 24.8
71 32.6 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 4.995 ng
RT: 7.255 min Scan# 578
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion: 93 Resp: 75108
Ion Ratio Lower Upper
93 100
63 75.4 60.6 90.8
95 32.1 26.0 39.0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.648 min Scan# 94

Delta R.T. 0.000 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

Tgt Ion:136 Resp: 14362

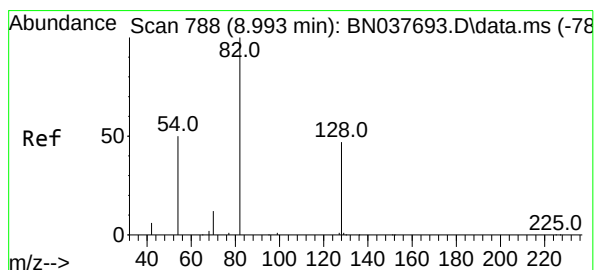
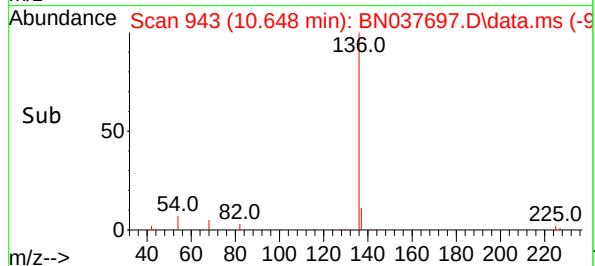
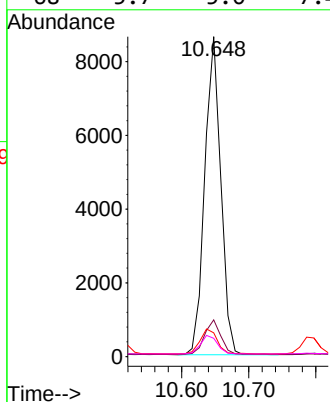
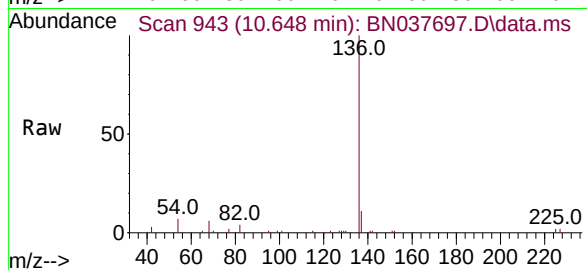
Ion Ratio Lower Upper

136 100

137 11.5 9.1 13.7

54 7.4 6.3 9.5

68 5.7 5.0 7.4



#8

Nitrobenzene-d5

Concen: 5.559 ng

RT: 8.993 min Scan# 788

Delta R.T. 0.000 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

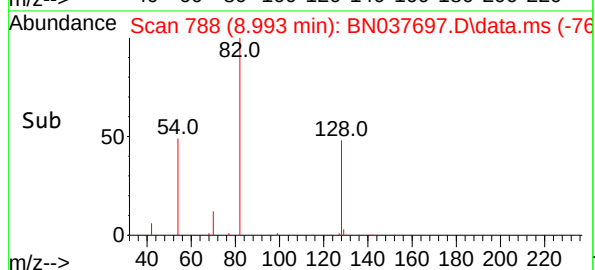
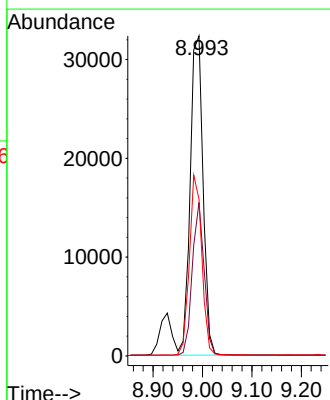
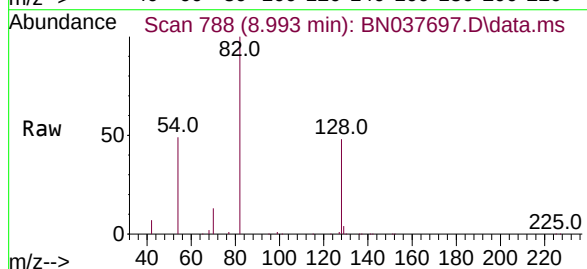
Tgt Ion: 82 Resp: 58397

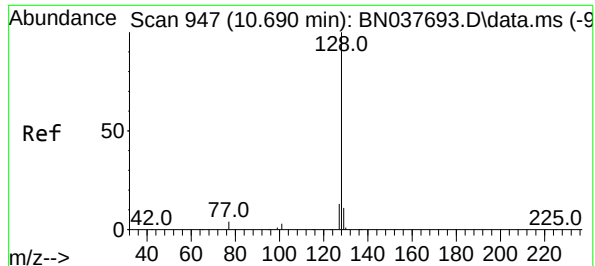
Ion Ratio Lower Upper

82 100

128 47.9 38.3 57.5

54 49.0 41.4 62.2

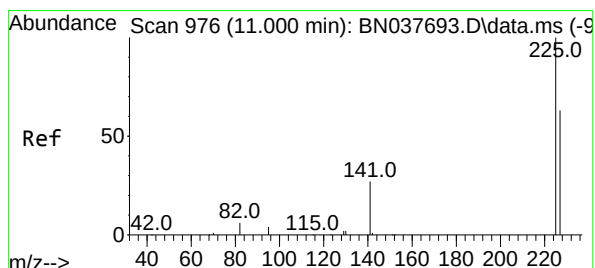
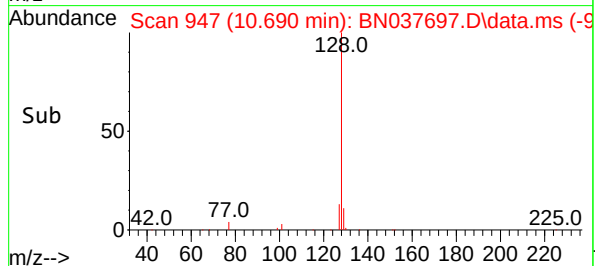
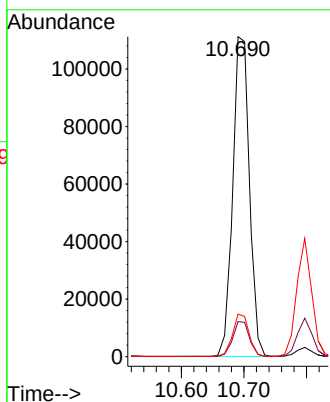
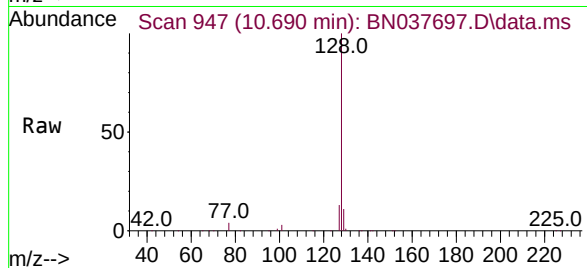




#9
Naphthalene
Concen: 5.253 ng
RT: 10.690 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

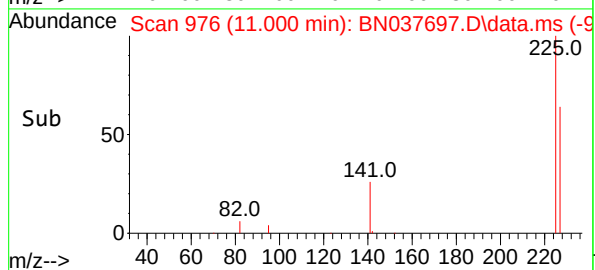
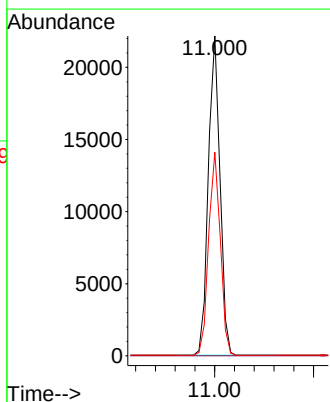
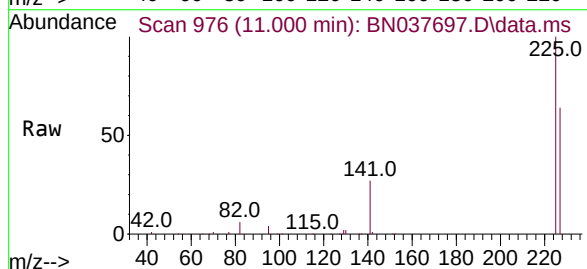
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

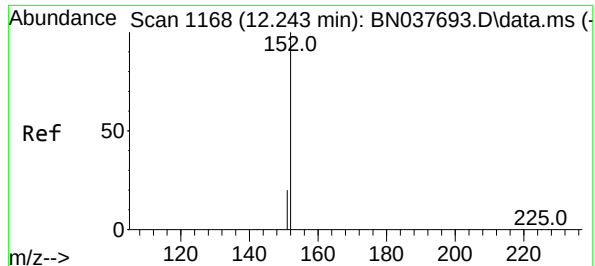
Tgt Ion:128 Resp: 206218
Ion Ratio Lower Upper
128 100
129 10.9 9.1 13.7
127 13.3 10.9 16.3



#10
Hexachlorobutadiene
Concen: 5.099 ng
RT: 11.000 min Scan# 976
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:225 Resp: 36218
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 50.9 76.3

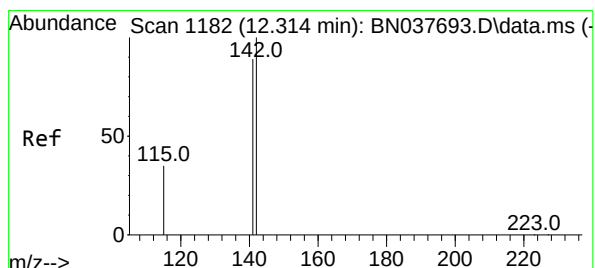
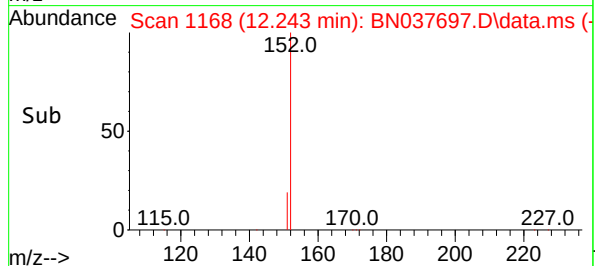
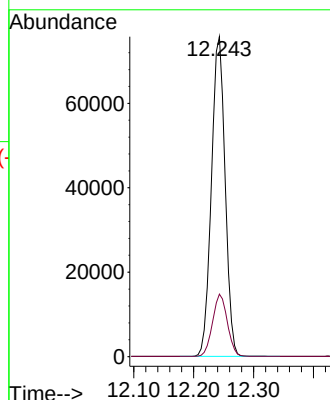
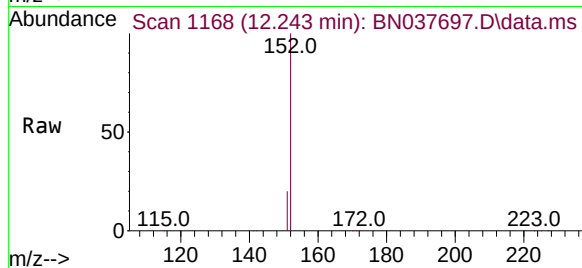




#11
2-Methylnaphthalene-d10
Concen: 6.306 ng
RT: 12.243 min Scan# 1168
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

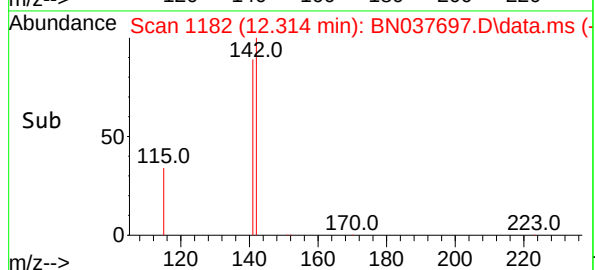
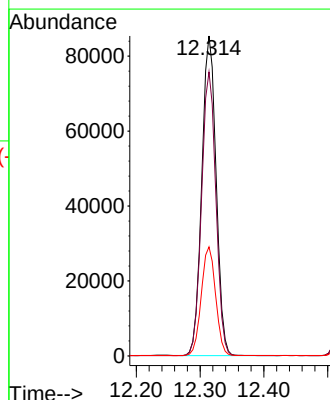
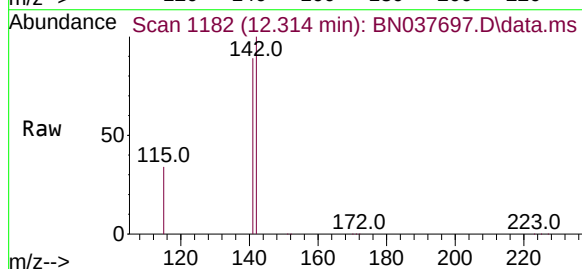
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

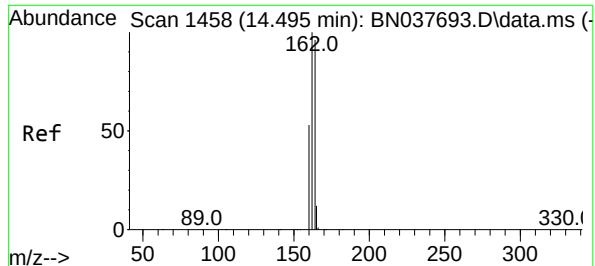
Tgt Ion:152 Resp: 119992
Ion Ratio Lower Upper
152 100
151 21.0 17.0 25.6



#12
2-Methylnaphthalene
Concen: 5.469 ng
RT: 12.314 min Scan# 1182
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:142 Resp: 132802
Ion Ratio Lower Upper
142 100
141 88.7 71.6 107.4
115 34.1 28.6 43.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.495 min Scan# 14

Delta R.T. 0.000 min

Lab File: BN037697.D

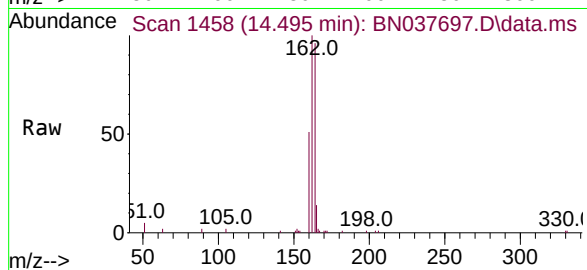
Acq: 11 Sep 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



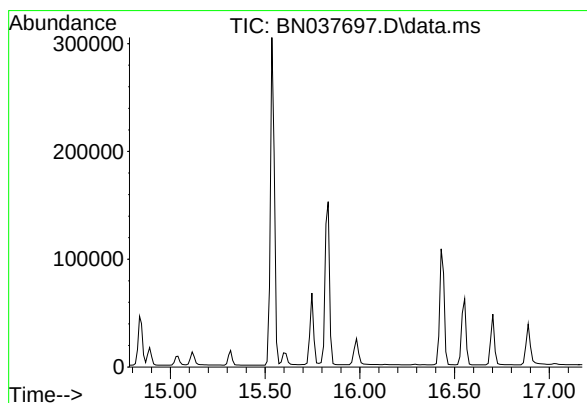
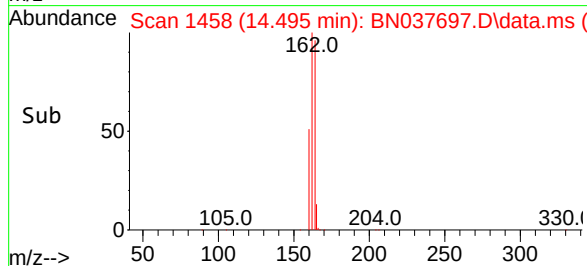
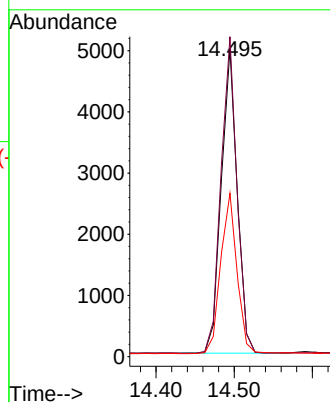
Tgt Ion:164 Resp: 7056

Ion Ratio Lower Upper

164 100

162 104.0 83.1 124.7

160 53.1 44.3 66.5



#14

2,4,6-Tribromophenol

Concen: 0.000 ng

Expected RT: 15.98 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

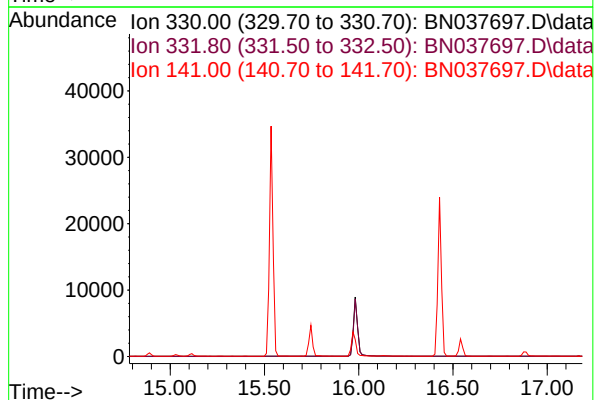
Tgt Ion: 330

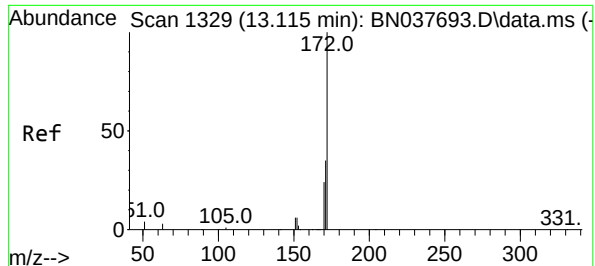
Sig Exp Ratio

330 100

332 94.1

141 43.7





#15

2-Fluorobiphenyl

Concen: 5.334 ng

RT: 13.115 min Scan# 1329

Delta R.T. 0.000 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

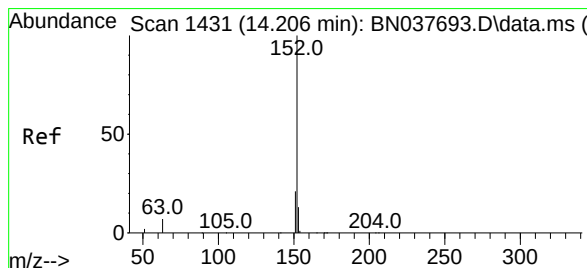
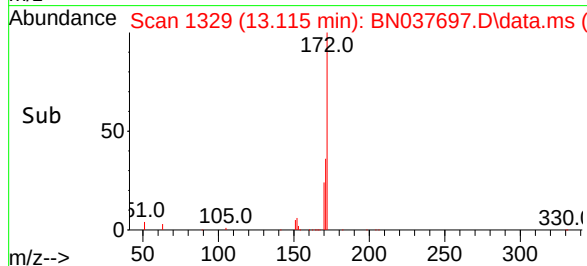
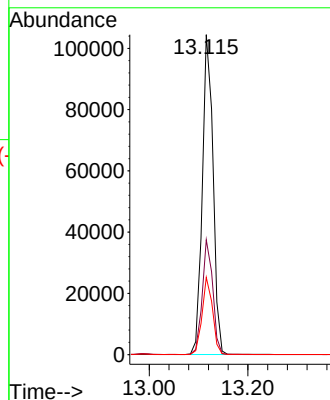
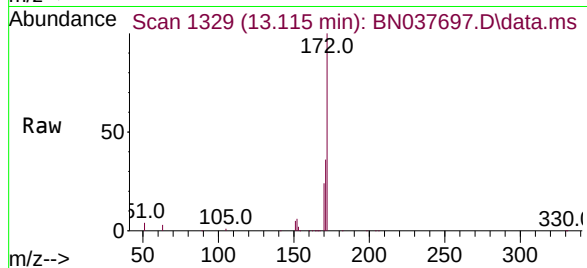
Tgt Ion:172 Resp: 157398

Ion	Ratio	Lower	Upper

172	100		

171	35.9	28.6	43.0

170	24.1	19.8	29.8



#16

Acenaphthylene

Concen: 5.505 ng

RT: 14.217 min Scan# 1432

Delta R.T. 0.011 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

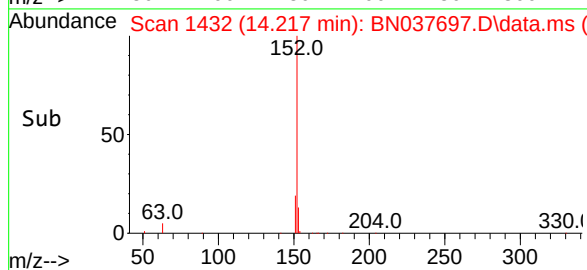
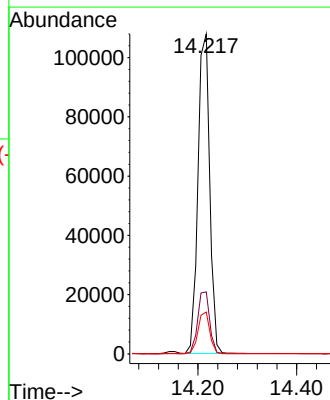
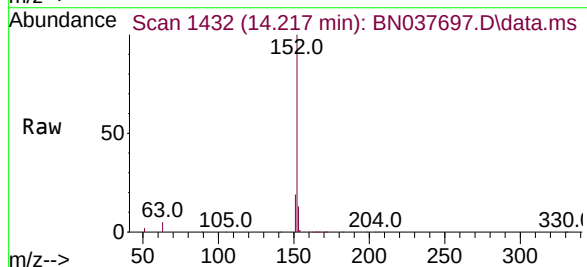
Tgt Ion:152 Resp: 178140

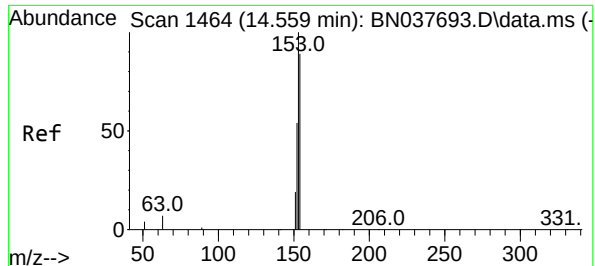
Ion	Ratio	Lower	Upper

152	100		

151	19.8	16.2	24.2

153	13.0	10.4	15.6

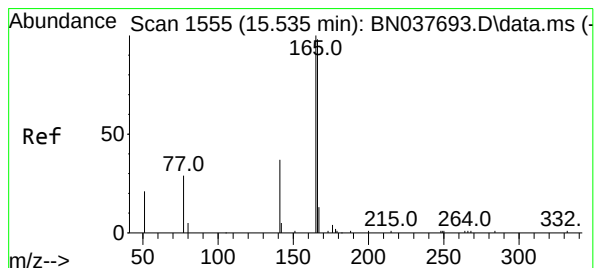
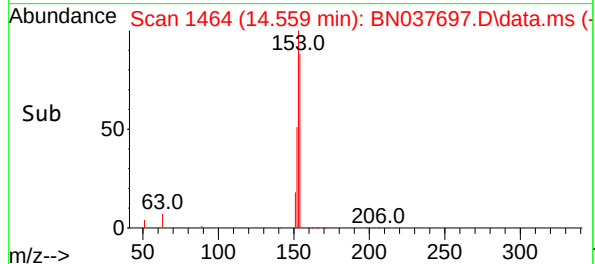
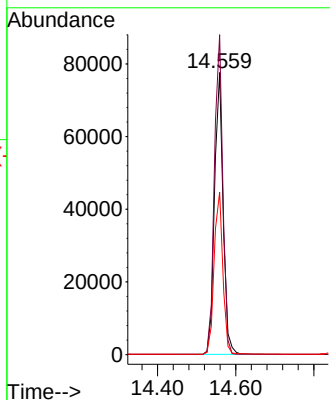
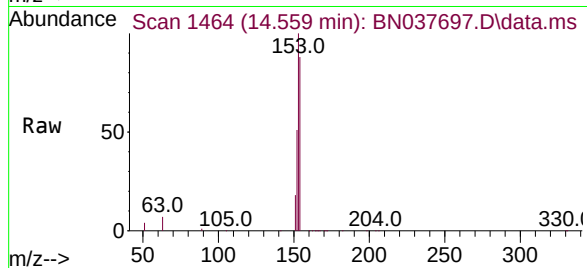




#17
Acenaphthene
Concen: 5.435 ng
RT: 14.559 min Scan# 1464
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

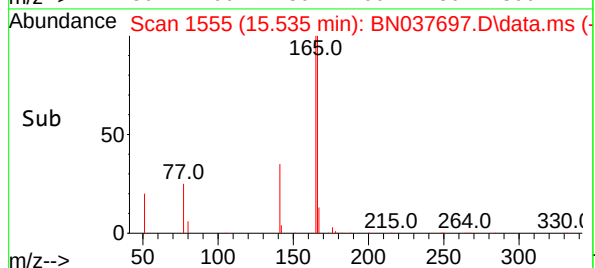
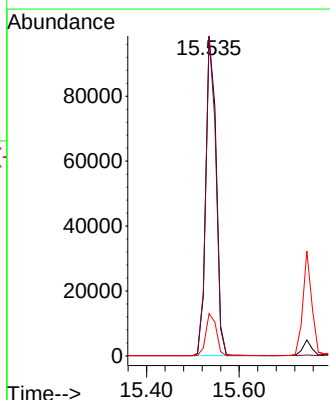
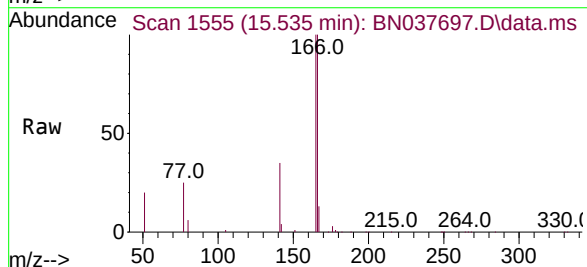
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

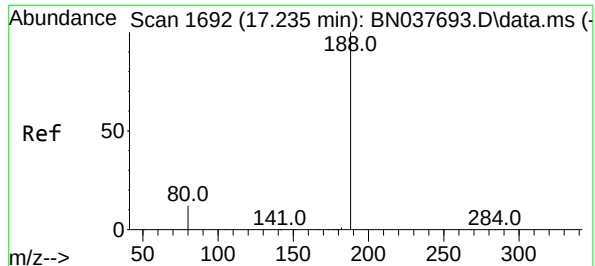
Tgt Ion:154 Resp: 118915
Ion Ratio Lower Upper
154 100
153 111.1 89.8 134.8
152 58.4 50.2 75.2



#18
Fluorene
Concen: 5.563 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:166 Resp: 147419
Ion Ratio Lower Upper
166 100
165 97.9 79.6 119.4
167 13.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. 0.000 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

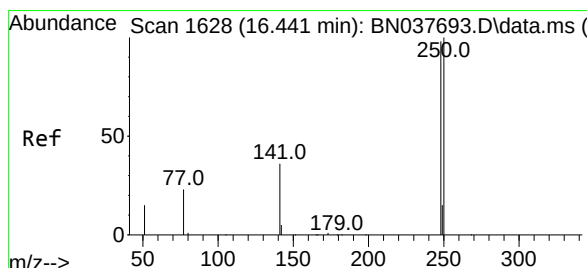
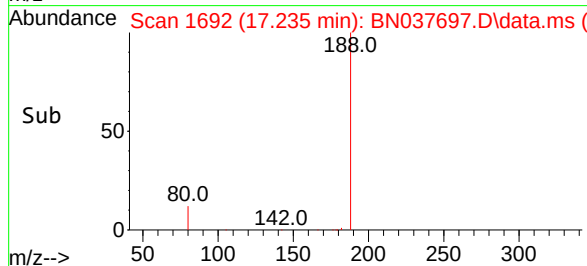
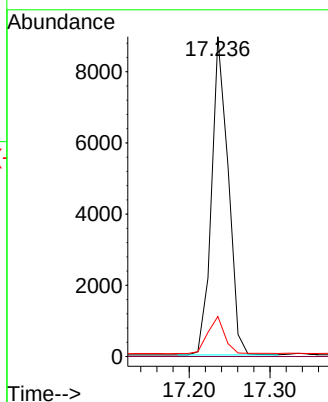
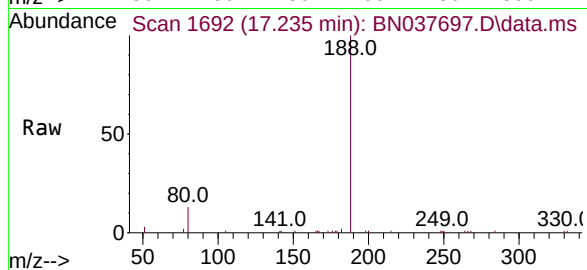
Tgt Ion:188 Resp: 12767

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.5 10.6 15.8



#21

4-Bromophenyl-phenylether

Concen: 5.448 ng

RT: 16.441 min Scan# 1628

Delta R.T. 0.000 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

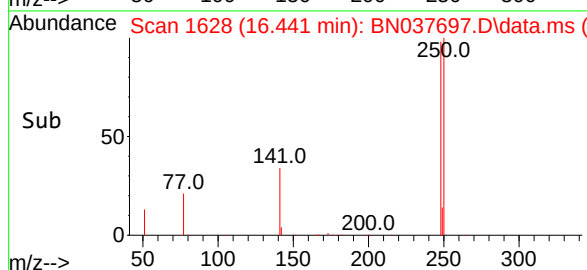
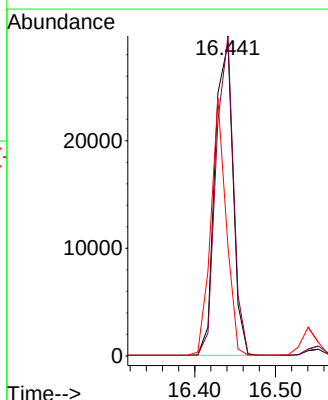
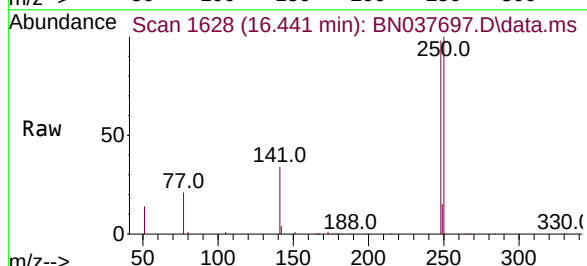
Tgt Ion:248 Resp: 45357

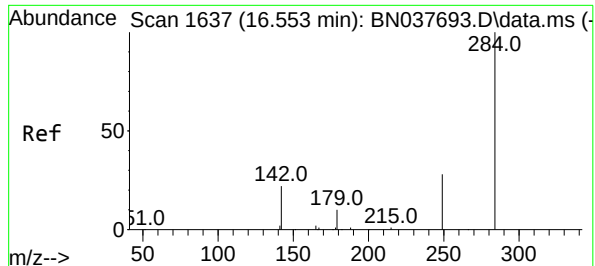
Ion Ratio Lower Upper

248 100

250 102.5 81.5 122.3

141 35.0 30.8 46.2

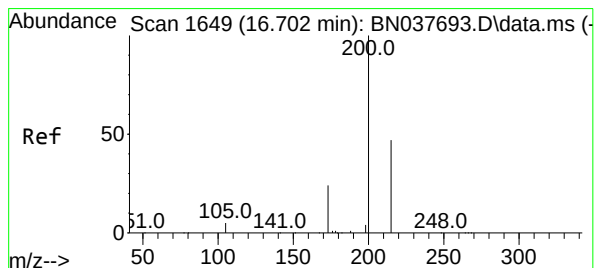
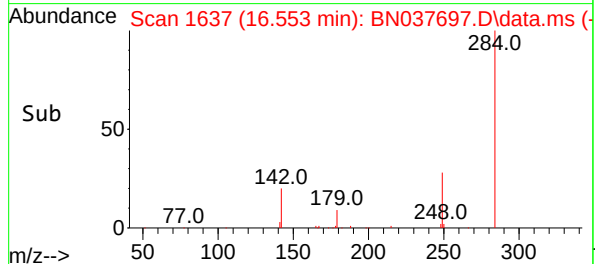
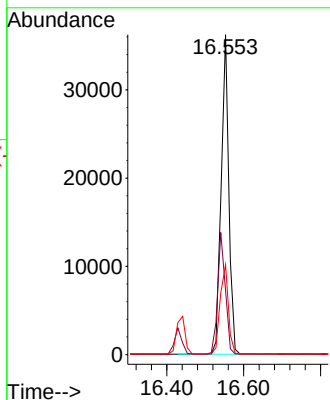
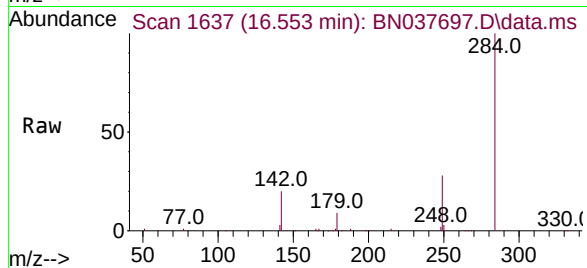




#22
Hexachlorobenzene
Concen: 5.160 ng
RT: 16.553 min Scan# 1637
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

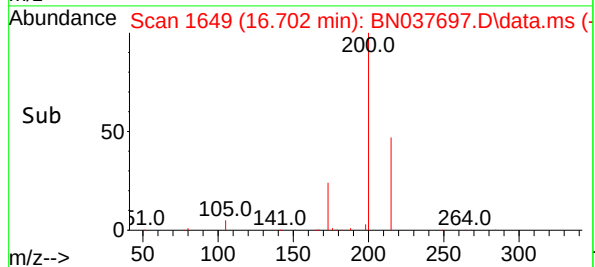
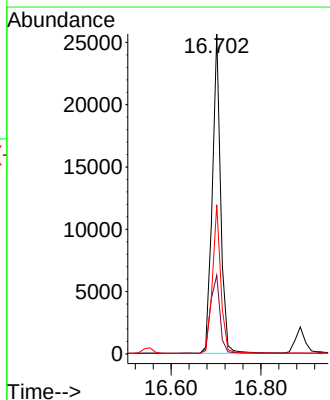
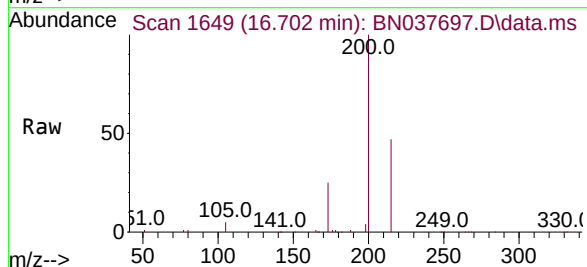
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

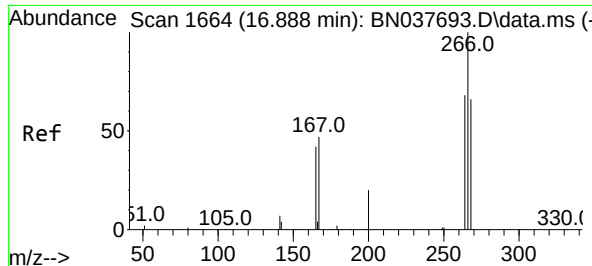
Tgt Ion	284	Resp	49411
Ion Ratio	Lower	Upper	
284	100		
142	38.2	30.9	46.3
249	30.2	24.8	37.2



#23
Atrazine
Concen: 6.295 ng
RT: 16.702 min Scan# 1649
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion	200	Resp	33341
Ion Ratio	Lower	Upper	
200	100		
173	24.6	21.4	32.2
215	46.6	39.2	58.8





#24

Pentachlorophenol

Concen: 6.581 ng

RT: 16.888 min Scan# 1664

Delta R.T. 0.000 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

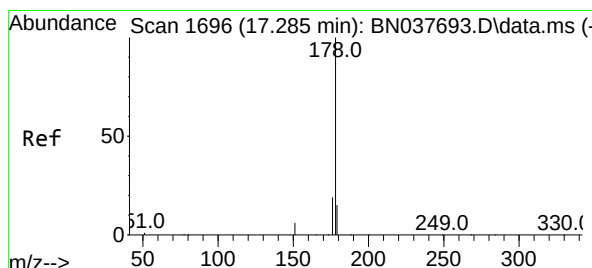
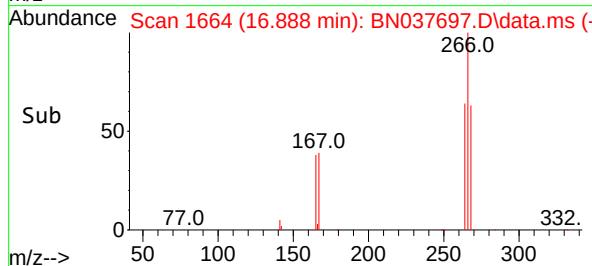
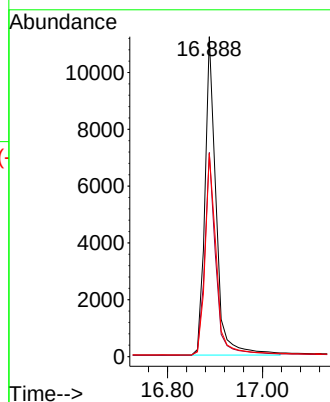
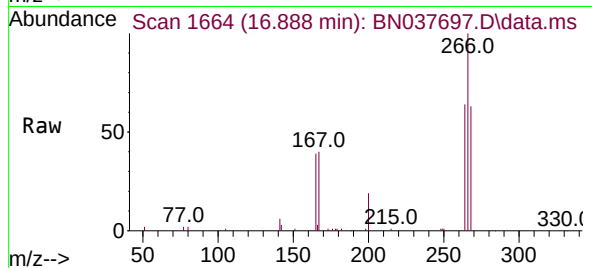
Tgt Ion:266 Resp: 18297

Ion Ratio Lower Upper

266 100

264 62.8 51.6 77.4

268 63.6 53.2 79.8



#25

Phenanthrene

Concen: 5.441 ng

RT: 17.285 min Scan# 1696

Delta R.T. 0.000 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

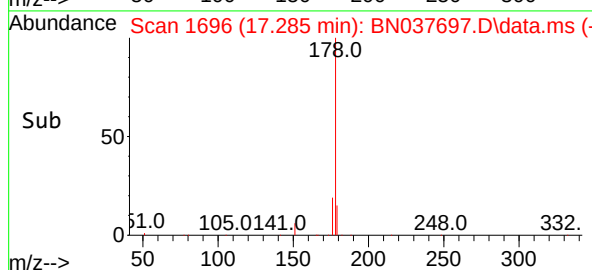
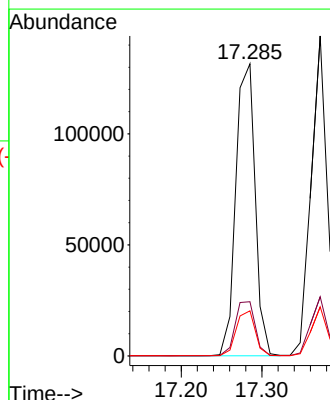
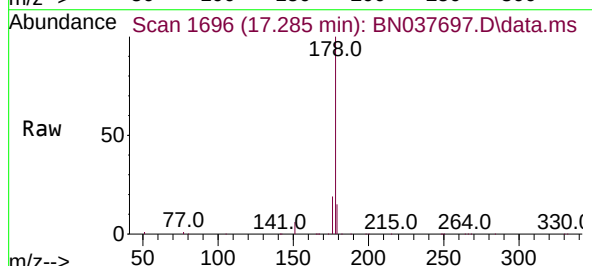
Tgt Ion:178 Resp: 218722

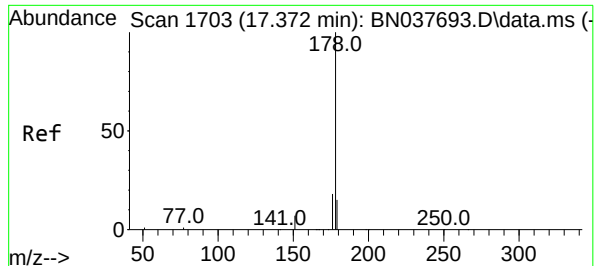
Ion Ratio Lower Upper

178 100

176 19.2 15.3 22.9

179 15.1 12.2 18.2

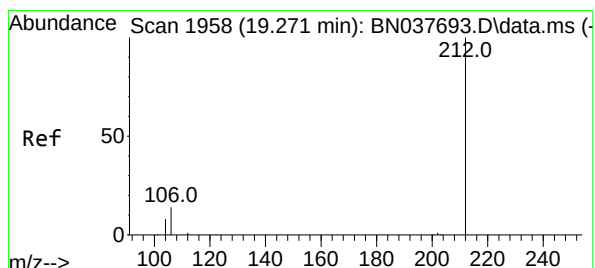
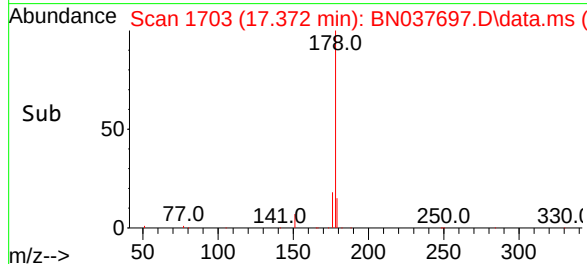
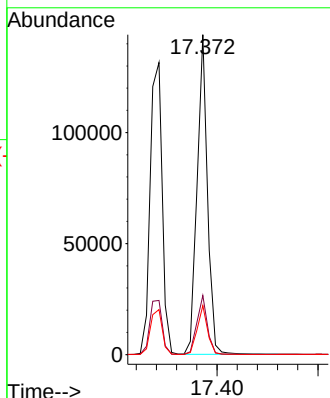
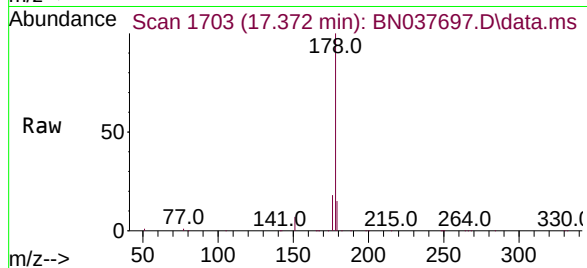




#26
Anthracene
Concen: 5.741 ng
RT: 17.372 min Scan# 1703
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

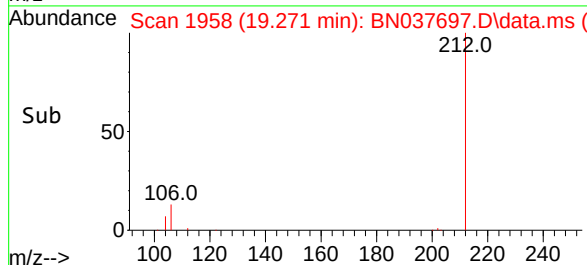
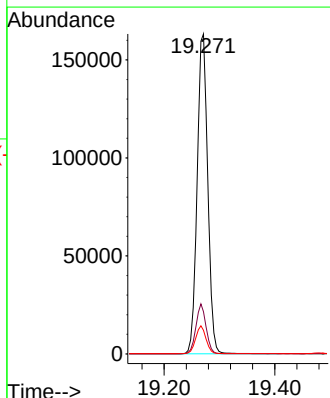
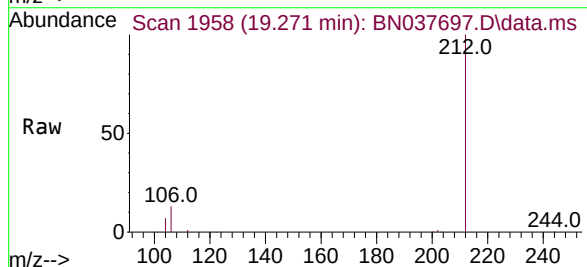
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

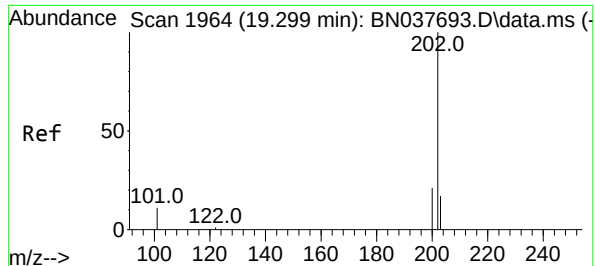
Tgt Ion:178 Resp: 204421
Ion Ratio Lower Upper
178 100
176 18.6 14.6 22.0
179 15.2 12.2 18.4



#27
Fluoranthene-d10
Concen: 6.721 ng
RT: 19.271 min Scan# 1958
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

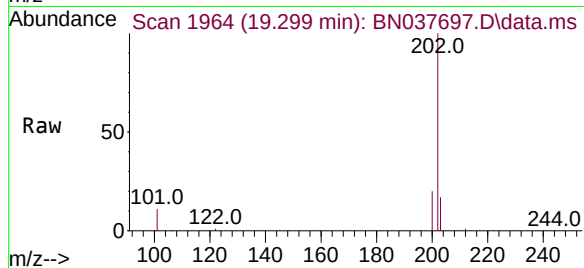
Tgt Ion:212 Resp: 215419
Ion Ratio Lower Upper
212 100
106 14.9 12.2 18.2
104 8.5 6.9 10.3



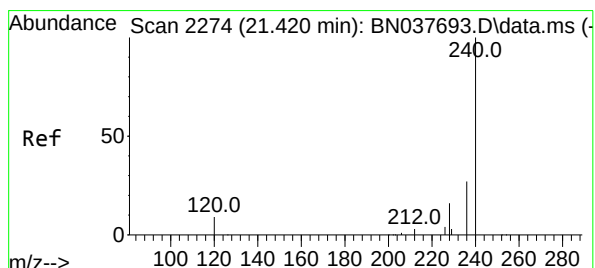
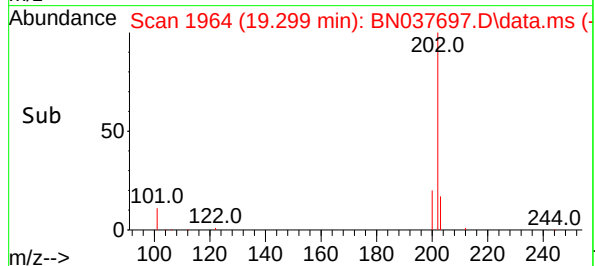
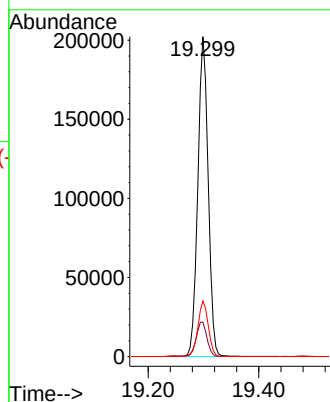


#28
Fluoranthene
Concen: 5.926 ng
RT: 19.299 min Scan# 1964
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

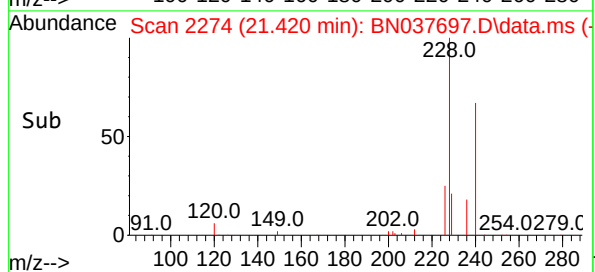
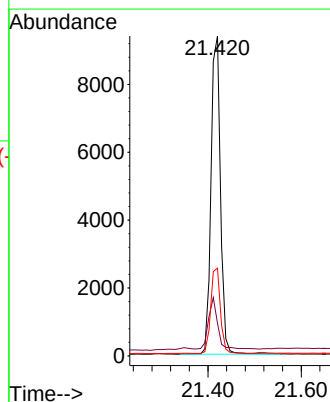
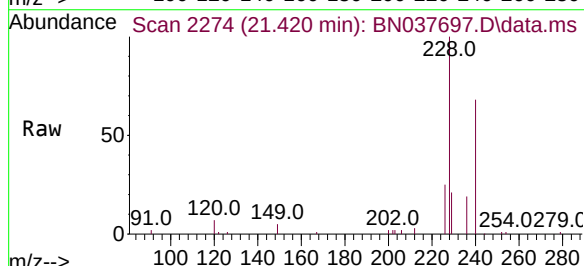


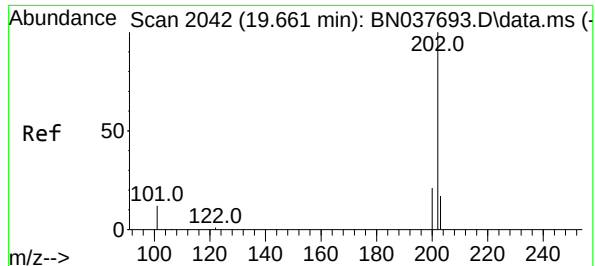
Tgt Ion:202 Resp: 261250
Ion Ratio Lower Upper
202 100
101 11.4 9.3 13.9
203 17.3 13.7 20.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:240 Resp: 13060
Ion Ratio Lower Upper
240 100
120 10.2 9.2 13.8
236 27.4 22.6 33.8





#30

Pyrene

Concen: 5.077 ng

RT: 19.661 min Scan# 2042

Delta R.T. 0.000 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

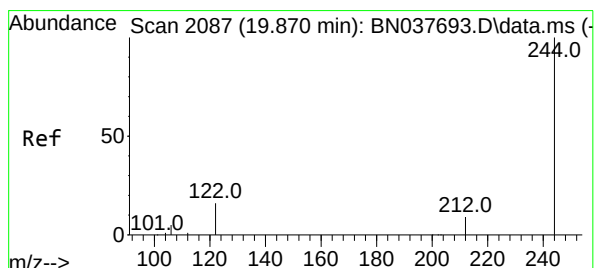
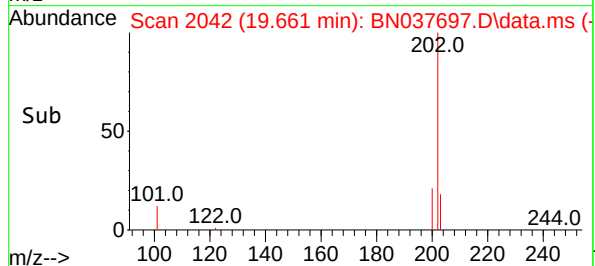
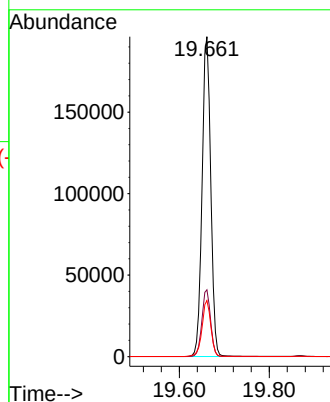
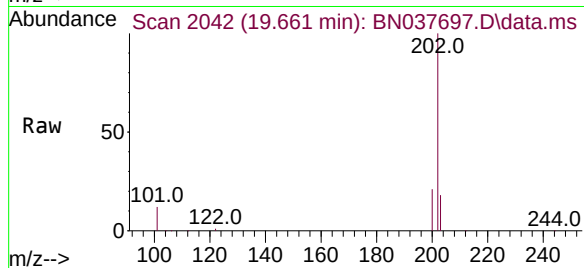
Tgt Ion:202 Resp: 259551

Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 17.8 14.3 21.5



#31

Terphenyl-d14

Concen: 5.493 ng

RT: 19.870 min Scan# 2087

Delta R.T. 0.000 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

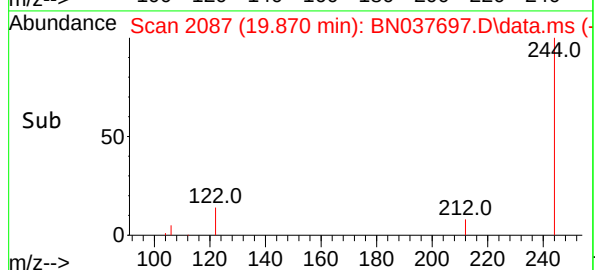
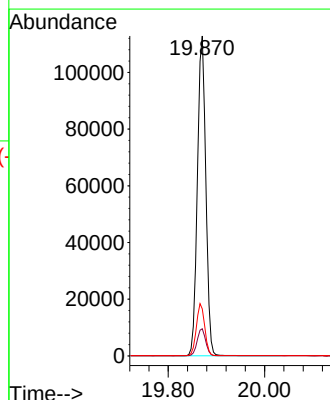
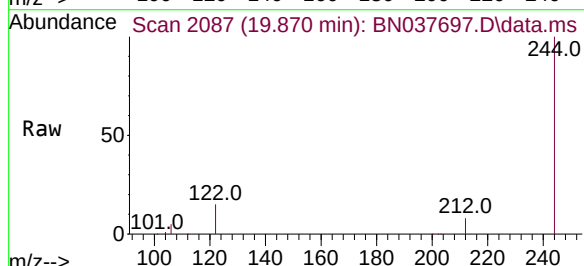
Tgt Ion:244 Resp: 145595

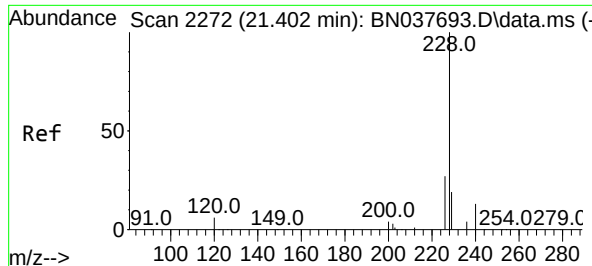
Ion Ratio Lower Upper

244 100

212 8.5 7.5 11.3

122 14.7 13.2 19.8

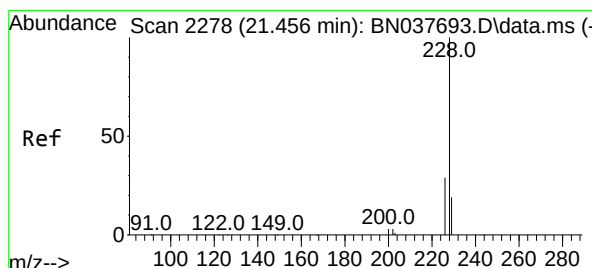
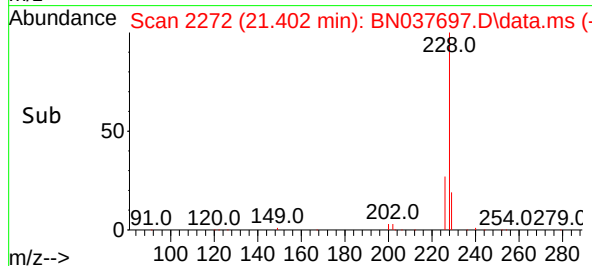
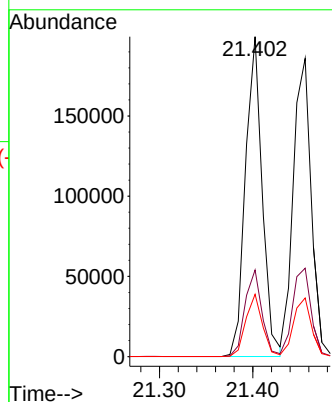
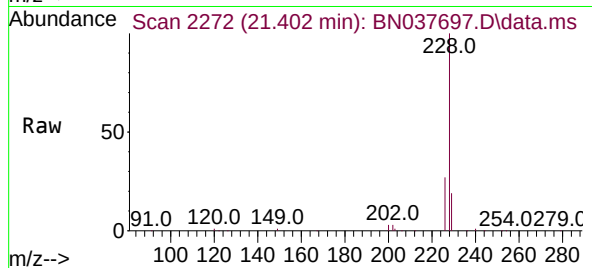




#32
Benzo(a)anthracene
Concen: 5.454 ng
RT: 21.402 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

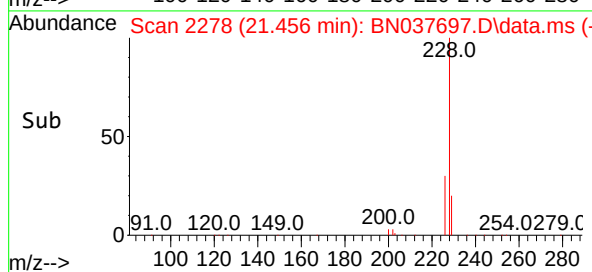
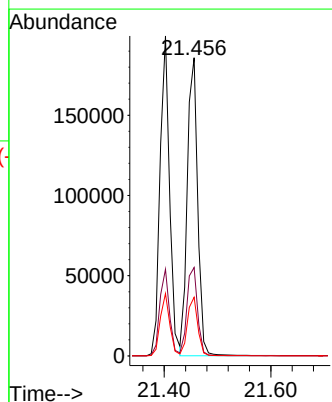
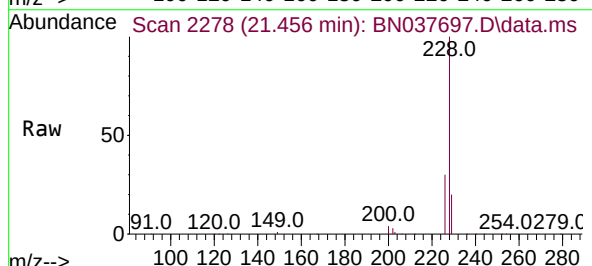
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

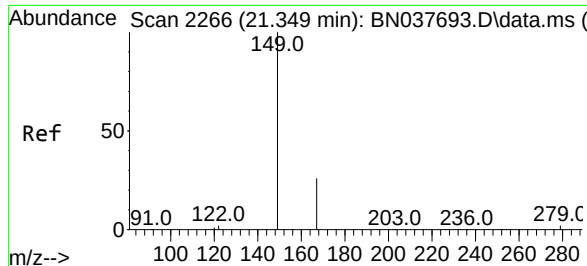
Tgt Ion:228 Resp: 248434
Ion Ratio Lower Upper
228 100
226 27.1 22.2 33.2
229 19.5 15.8 23.6



#33
Chrysene
Concen: 5.158 ng
RT: 21.456 min Scan# 2278
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:228 Resp: 251956
Ion Ratio Lower Upper
228 100
226 29.6 23.5 35.3
229 19.7 15.9 23.9

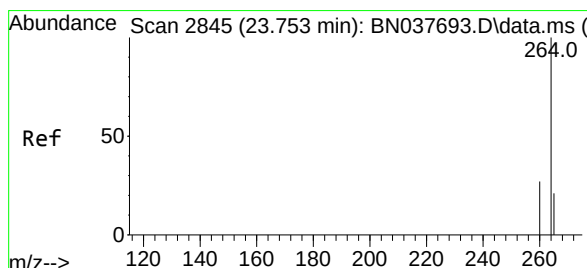
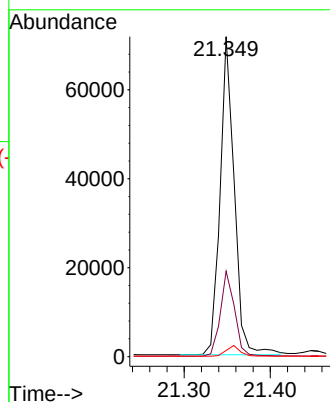
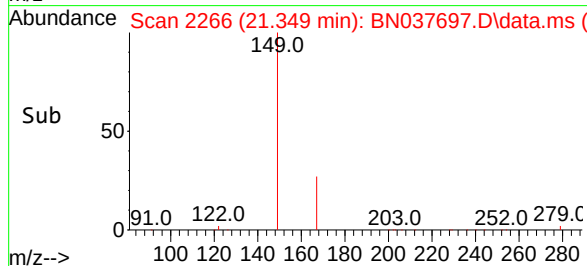
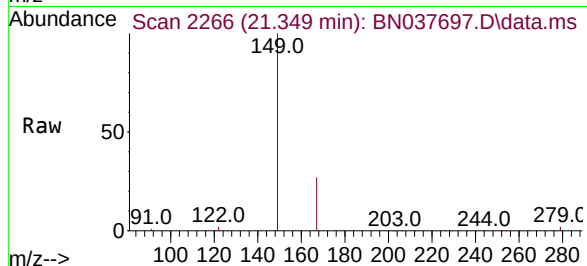




#34
Bis(2-ethylhexyl)phthalate
Concen: 6.091 ng
RT: 21.349 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

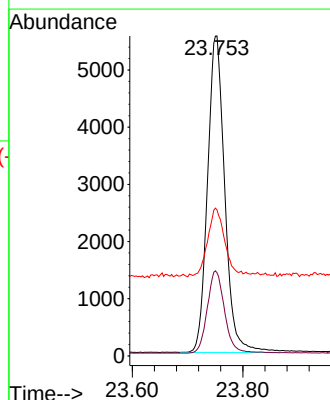
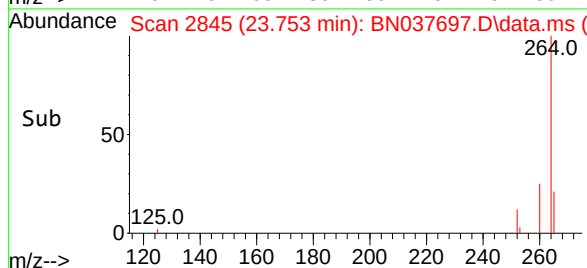
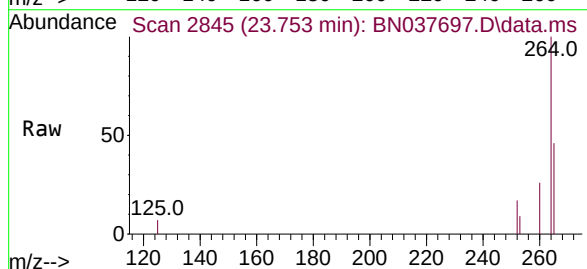
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

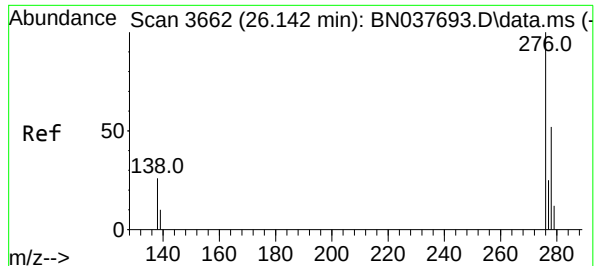
Tgt Ion:149 Resp: 82262
Ion Ratio Lower Upper
149 100
167 26.7 20.8 31.2
279 3.2 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.753 min Scan# 2845
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:264 Resp: 12009
Ion Ratio Lower Upper
264 100
260 26.0 21.8 32.8
265 45.6 39.4 59.2





#36

Indeno(1,2,3-cd)pyrene

Concen: 6.024 ng

RT: 26.145 min Scan# 30

Delta R.T. 0.003 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

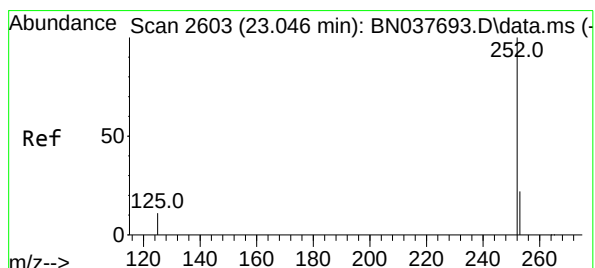
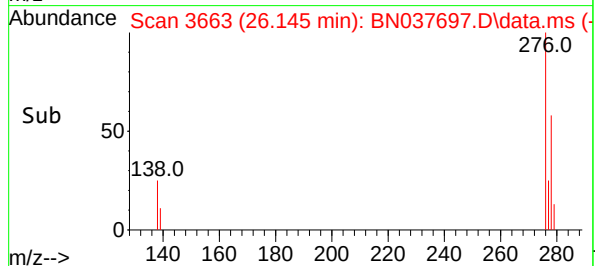
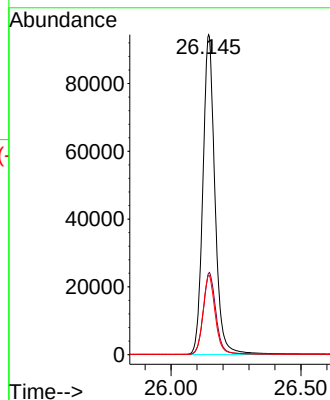
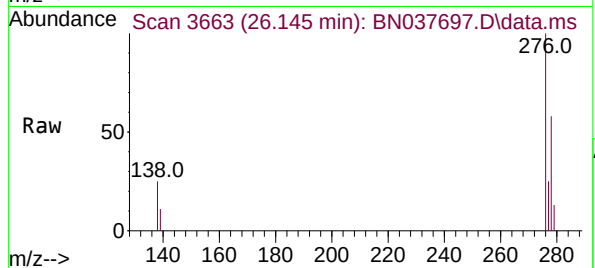
Tgt Ion:276 Resp: 303960

Ion Ratio Lower Upper

276 100

138 26.6 21.9 32.9

277 25.1 20.1 30.1



#37

Benzo(b)fluoranthene

Concen: 5.645 ng

RT: 23.049 min Scan# 2604

Delta R.T. 0.003 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

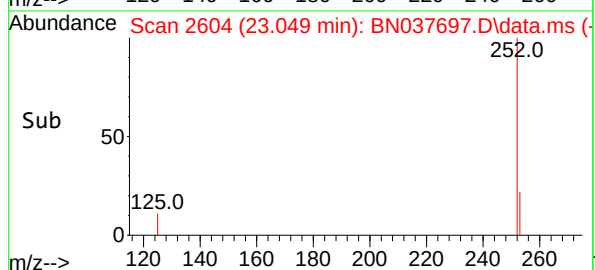
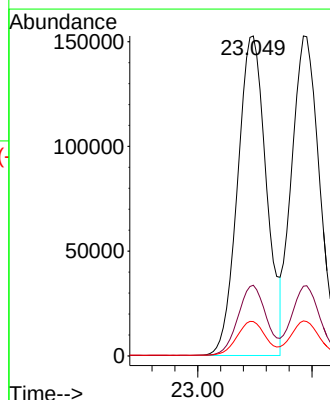
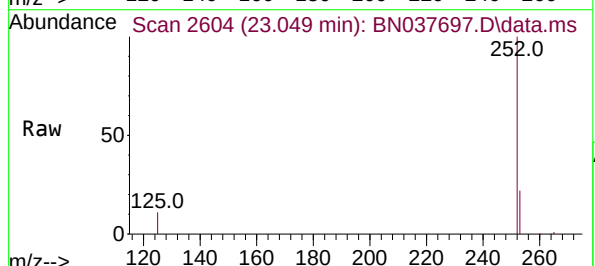
Tgt Ion:252 Resp: 266973

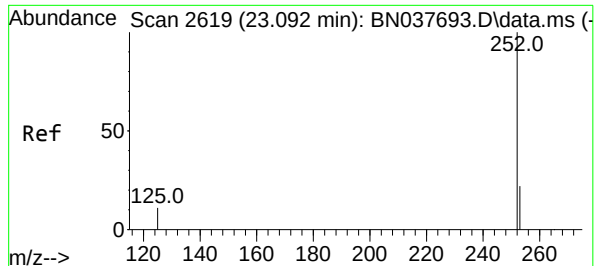
Ion Ratio Lower Upper

252 100

253 22.1 19.4 29.2

125 10.7 11.2 16.8#





#38

Benzo(k)fluoranthene

Concen: 5.466 ng

RT: 23.093 min Scan# 2619

Delta R.T. 0.000 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

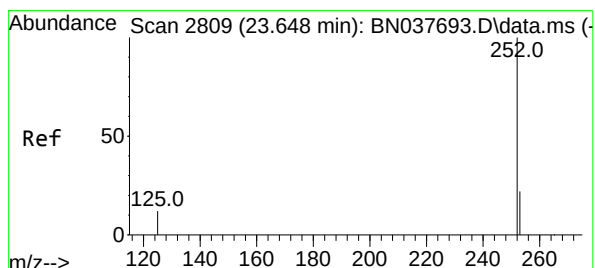
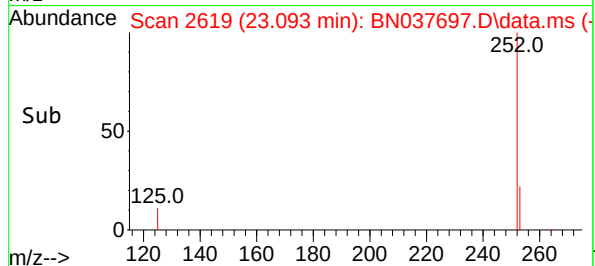
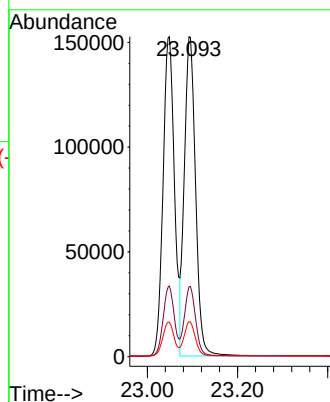
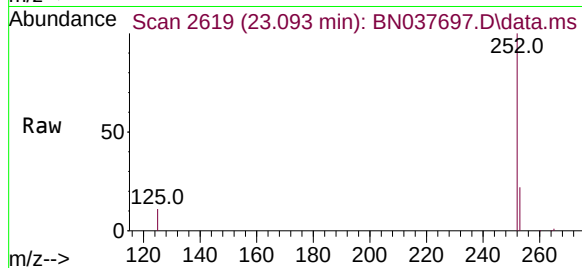
Tgt Ion:252 Resp: 263641

Ion Ratio Lower Upper

252 100

253 21.8 19.4 29.0

125 10.9 11.6 17.4#



#39

Benzo(a)pyrene

Concen: 5.816 ng

RT: 23.651 min Scan# 2810

Delta R.T. 0.003 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

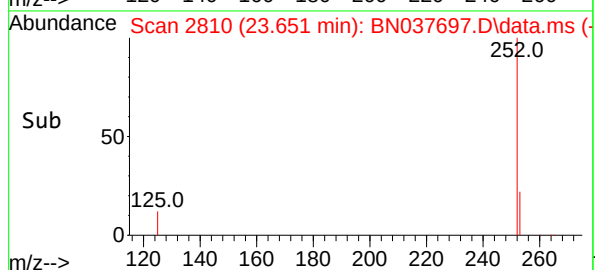
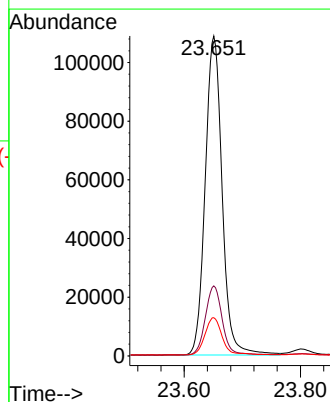
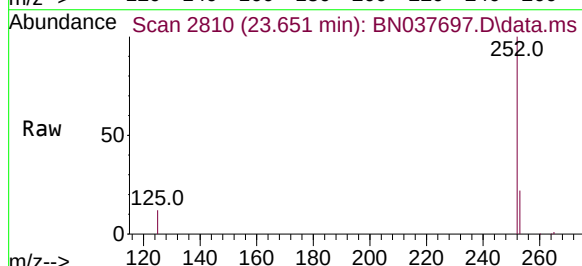
Tgt Ion:252 Resp: 220208

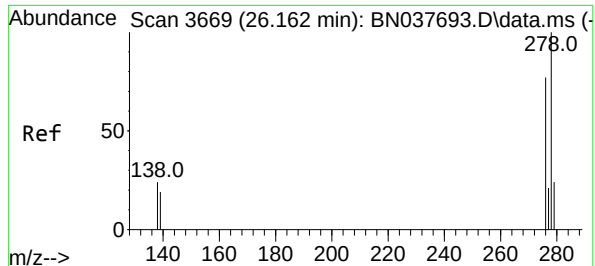
Ion Ratio Lower Upper

252 100

253 21.9 20.8 31.2

125 11.9 13.9 20.9#





#40

Dibenzo(a,h)anthracene

Concen: 6.096 ng

RT: 26.162 min Scan# 30

Delta R.T. 0.000 min

Lab File: BN037697.D

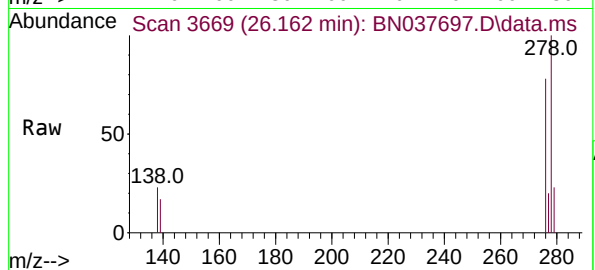
Acq: 11 Sep 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



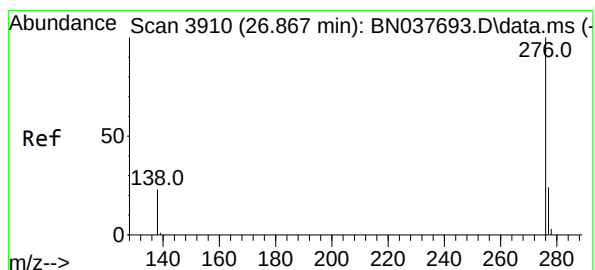
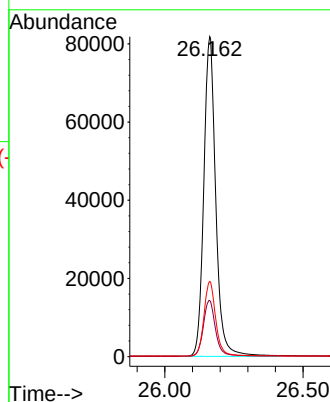
Tgt Ion:278 Resp: 245606

Ion Ratio Lower Upper

278 100

139 17.5 17.8 26.6#

279 23.5 22.0 33.0



#41

Benzo(g,h,i)perylene

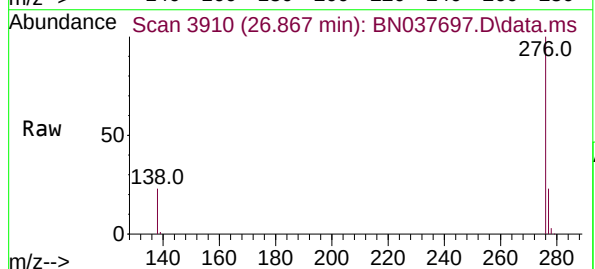
Concen: 5.720 ng

RT: 26.867 min Scan# 3910

Delta R.T. 0.000 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33



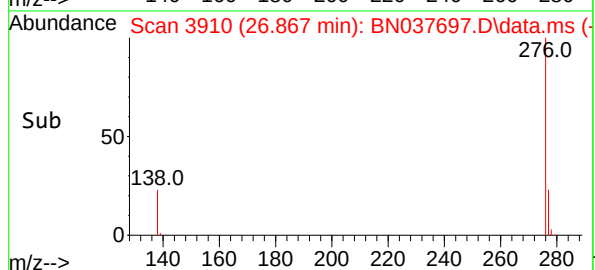
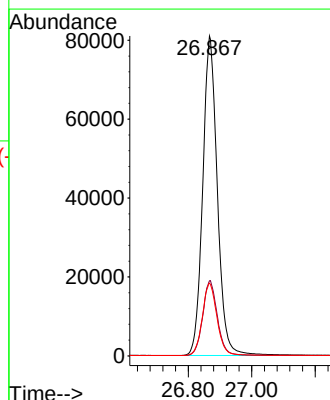
Tgt Ion:276 Resp: 258594

Ion Ratio Lower Upper

276 100

277 23.5 20.6 31.0

138 22.7 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
 Data File : BN037698.D
 Acq On : 11 Sep 2025 14:09
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN091125

Quant Time: Sep 11 16:00:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

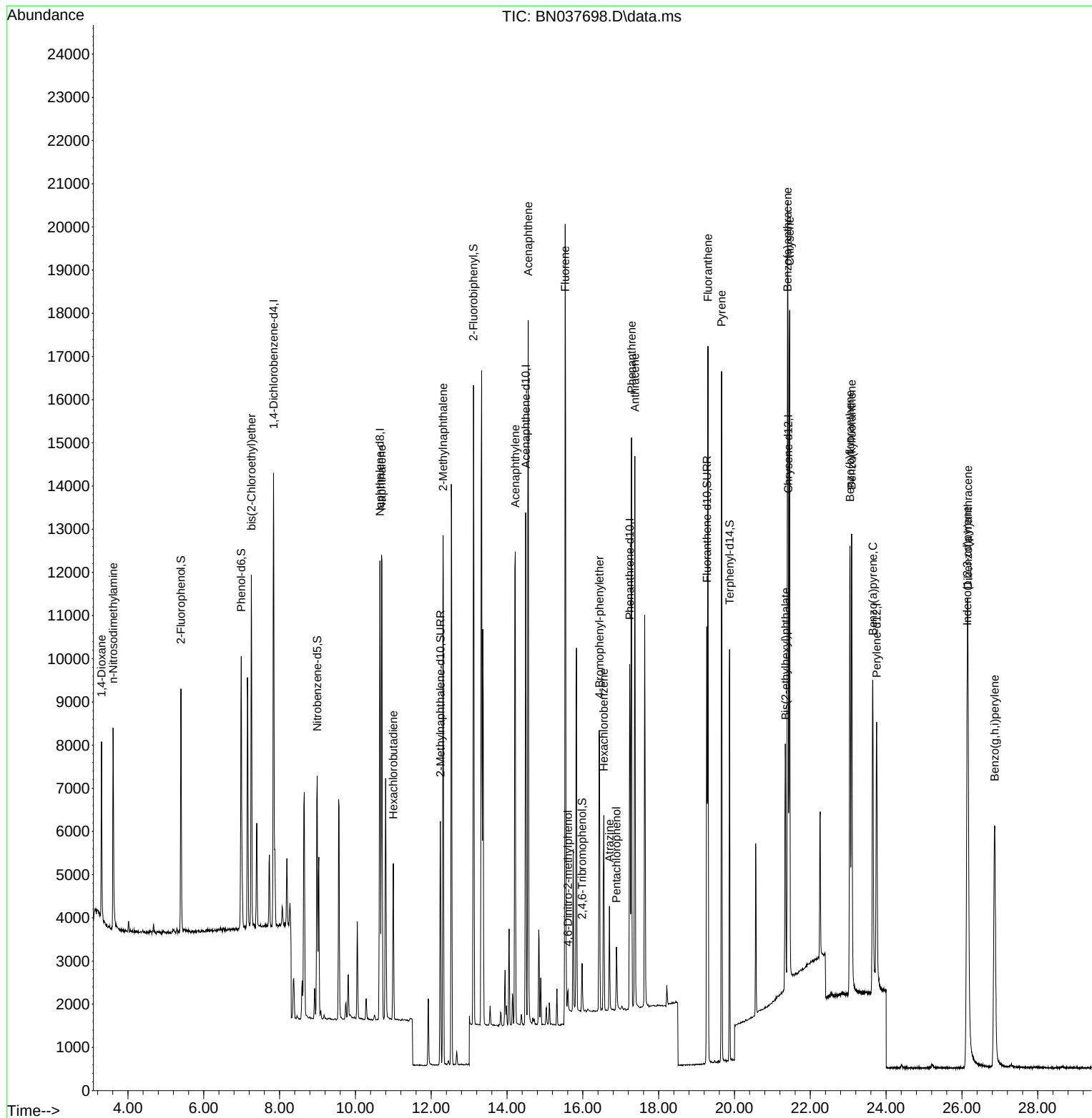
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	5029	0.400	ng	0.00
7) Naphthalene-d8	10.647	136	13552	0.400	ng	0.00
13) Acenaphthene-d10	14.494	164	6371	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	11165	0.400	ng	0.00
29) Chrysene-d12	21.420	240	8931	0.400	ng	0.00
35) Perylene-d12	23.750	264	8751	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	4545	0.394	ng	0.00
5) Phenol-d6	6.987	99	5691	0.380	ng	0.00
8) Nitrobenzene-d5	8.992	82	4501	0.454	ng	0.00
11) 2-Methylnaphthalene-d10	12.242	152	7632	0.425	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	629	0.379	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	12687	0.476	ng	0.00
27) Fluoranthene-d10	19.271	212	11138	0.397	ng	0.00
31) Terphenyl-d14	19.870	244	8765	0.484	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.304	88	2457	0.469	ng	98
3) n-Nitrosodimethylamine	3.607	42	2924	0.427	ng	# 94
6) bis(2-Chloroethyl)ether	7.255	93	5769	0.431	ng	99
9) Naphthalene	10.690	128	15153	0.409	ng	100
10) Hexachlorobutadiene	11.000	225	2814	0.420	ng	# 99
12) 2-Methylnaphthalene	12.313	142	8593	0.375	ng	100
16) Acenaphthylene	14.216	152	12785	0.438	ng	100
17) Acenaphthene	14.558	154	7838	0.397	ng	99
18) Fluorene	15.535	166	9460	0.395	ng	98
20) 4,6-Dinitro-2-methylph...	15.609	198	392	0.379	ng	99
21) 4-Bromophenyl-phenylether	16.441	248	2975	0.409	ng	97
22) Hexachlorobenzene	16.552	284	3569	0.426	ng	99
23) Atrazine	16.701	200	1828	0.395	ng	99
24) Pentachlorophenol	16.888	266	785	0.323	ng	97
25) Phenanthrene	17.285	178	14262	0.406	ng	99
26) Anthracene	17.372	178	12642	0.406	ng	99
28) Fluoranthene	19.299	202	14471	0.375	ng	100
30) Pyrene	19.661	202	14323	0.410	ng	100
32) Benzo(a)anthracene	21.402	228	12803	0.411	ng	99
33) Chrysene	21.456	228	13963	0.418	ng	99
34) Bis(2-ethylhexyl)phtha...	21.348	149	3245	0.351	ng	# 98
36) Indeno(1,2,3-cd)pyrene	26.139	276	15430	0.420	ng	100
37) Benzo(b)fluoranthene	23.045	252	13718	0.398	ng	100
38) Benzo(k)fluoranthene	23.092	252	14465	0.412	ng	98
39) Benzo(a)pyrene	23.648	252	11950	0.433	ng	100
40) Dibenzo(a,h)anthracene	26.159	278	12290	0.419	ng	99
41) Benzo(g,h,i)perylene	26.864	276	13095	0.398	ng	99

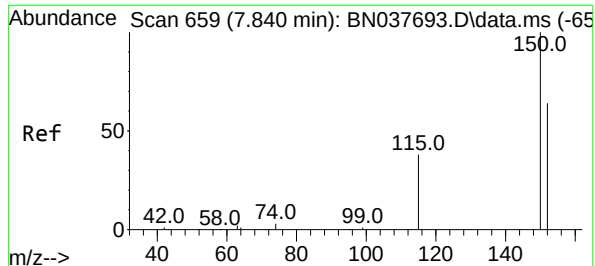
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Data File : BN037698.D
Acq On : 11 Sep 2025 14:09
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

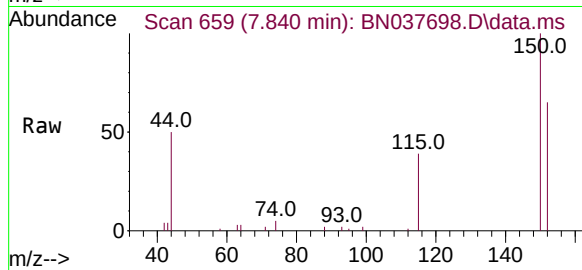
Quant Time: Sep 11 16:00:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



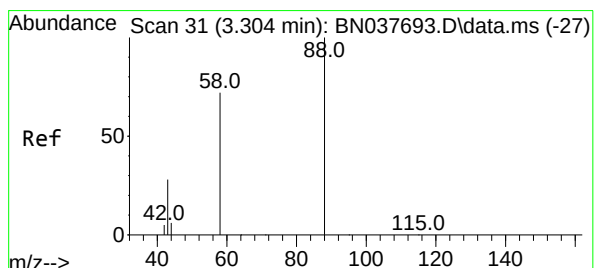
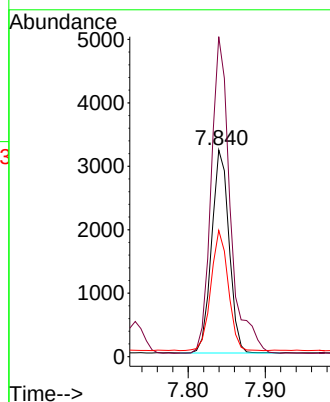
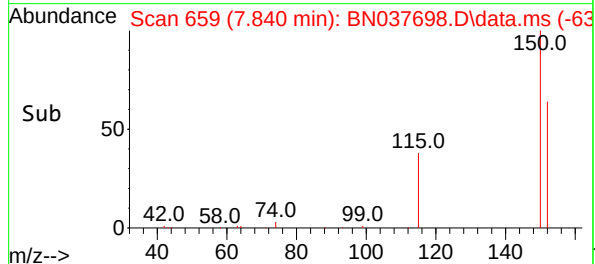


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

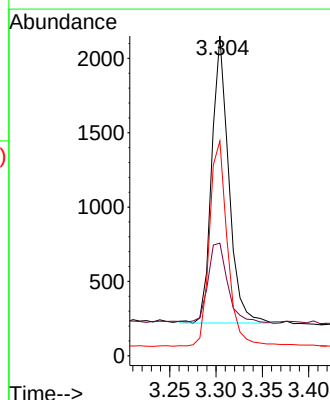
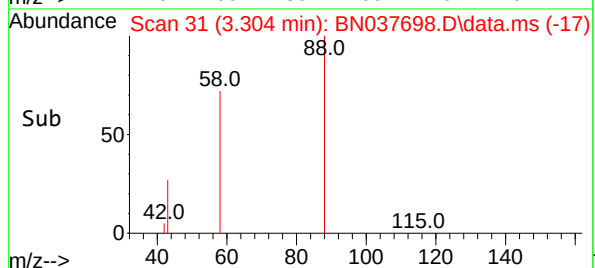
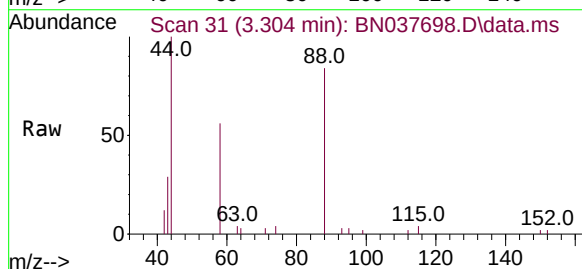


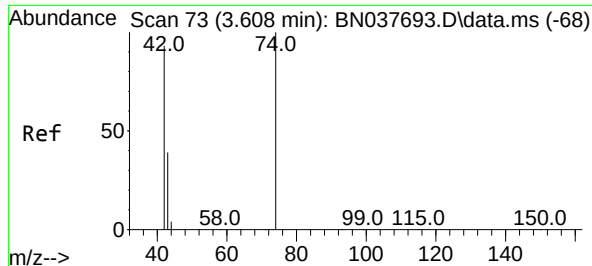
Tgt Ion:152 Resp: 5029
Ion Ratio Lower Upper
152 100
150 154.8 124.5 186.7
115 61.0 49.2 73.8



#2
1,4-Dioxane
Concen: 0.469 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion: 88 Resp: 2457
Ion Ratio Lower Upper
88 100
43 31.5 26.8 40.2
58 76.6 61.9 92.9

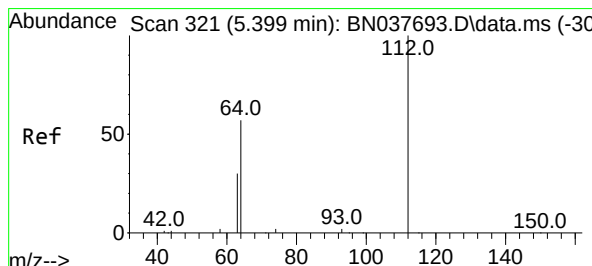
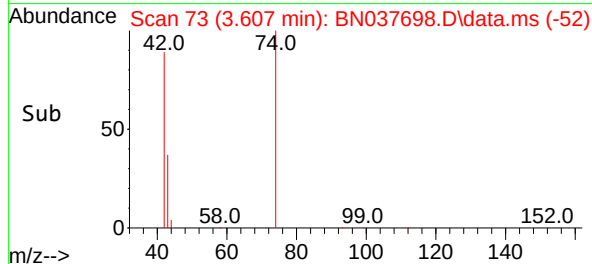
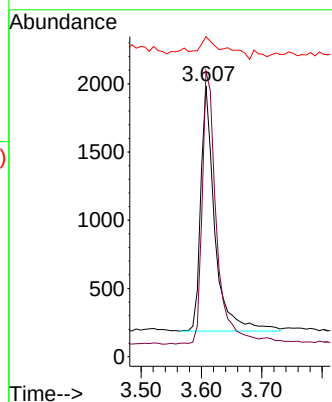
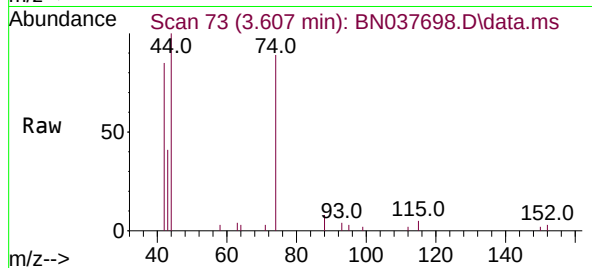




#3
n-Nitrosodimethylamine
Concen: 0.427 ng
RT: 3.607 min Scan# 73
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

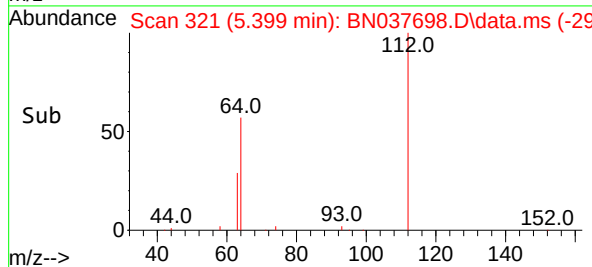
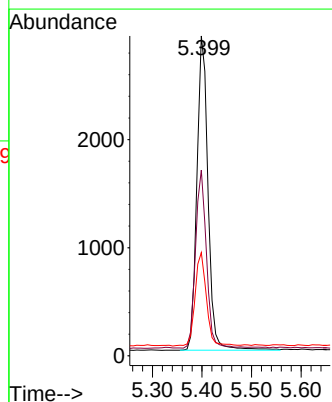
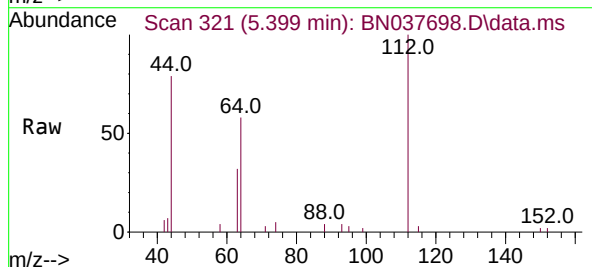
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

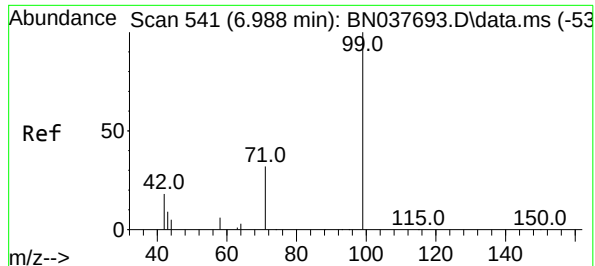
Tgt Ion: 42 Resp: 2924
Ion Ratio Lower Upper
42 100
74 112.9 86.0 129.0
44 15.6 8.4 12.6#



#4
2-Fluorophenol
Concen: 0.394 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion: 112 Resp: 4545
Ion Ratio Lower Upper
112 100
64 55.4 44.9 67.3
63 30.2 24.7 37.1

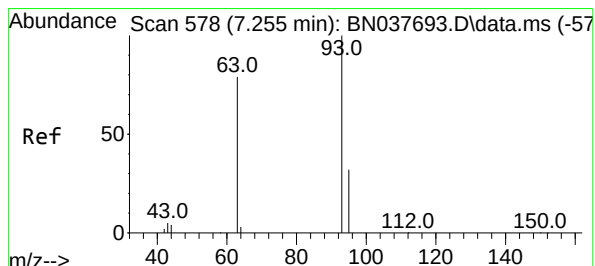
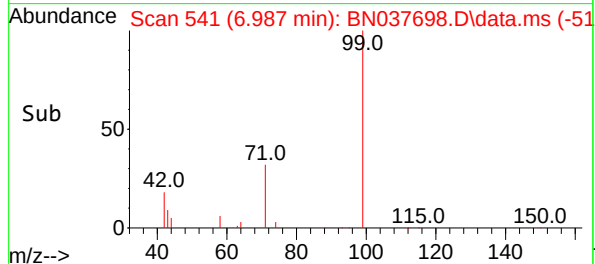
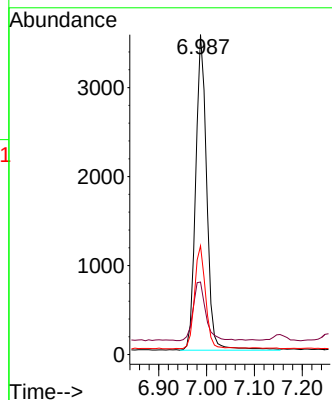
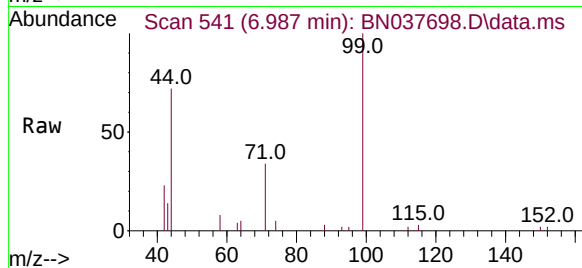




#5
Phenol-d6
Concen: 0.380 ng
RT: 6.987 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

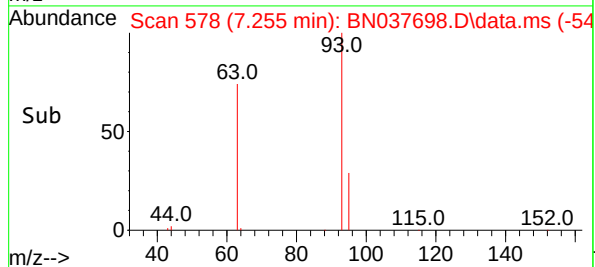
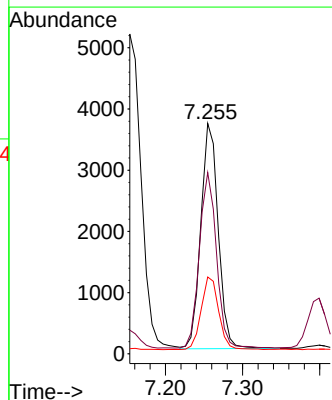
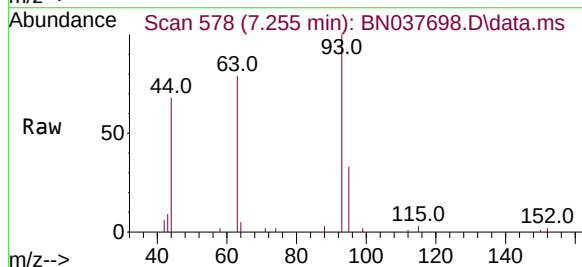
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

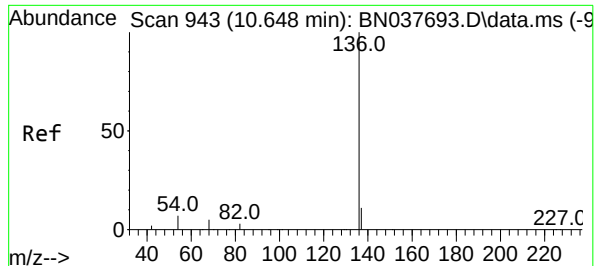
Tgt Ion: 99 Resp: 5691
Ion Ratio Lower Upper
99 100
42 21.3 16.6 24.8
71 32.6 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.431 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion: 93 Resp: 5769
Ion Ratio Lower Upper
93 100
63 76.7 60.6 90.8
95 32.7 26.0 39.0

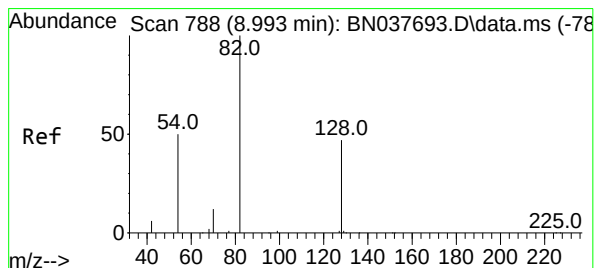
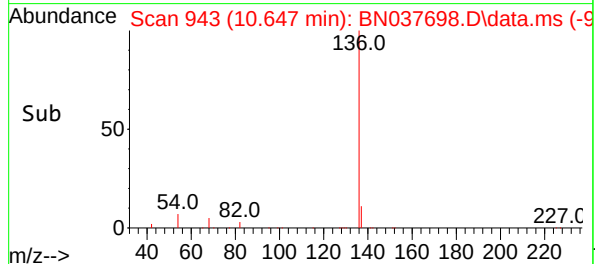
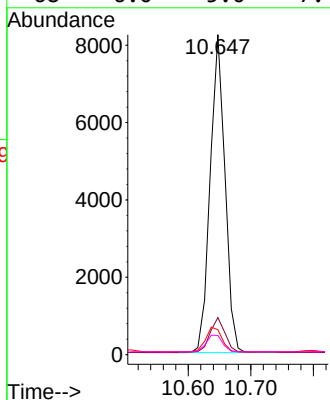
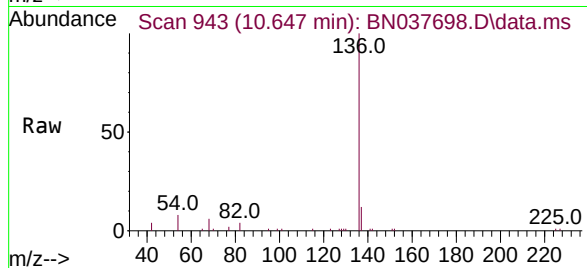




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.647 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

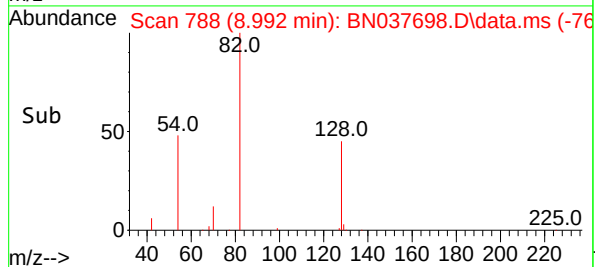
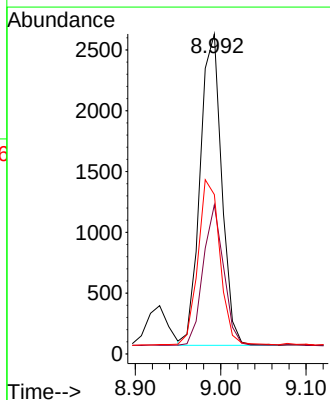
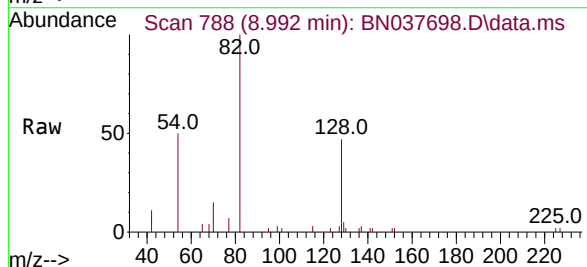
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

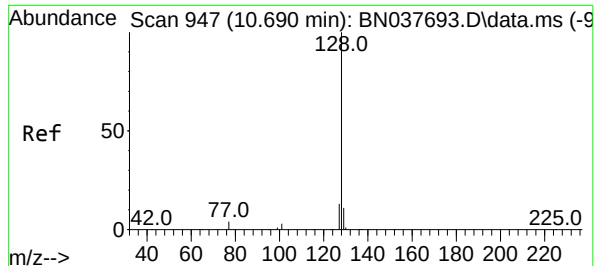
Tgt Ion:136	Resp:	13552
Ion Ratio	Lower	Upper
136	100	
137	11.6	9.1 13.7
54	7.8	6.3 9.5
68	6.0	5.0 7.4



#8
Nitrobenzene-d5
Concen: 0.454 ng
RT: 8.992 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion: 82	Resp:	4501
Ion Ratio	Lower	Upper
82	100	
128	46.6	38.3 57.5
54	49.8	41.4 62.2

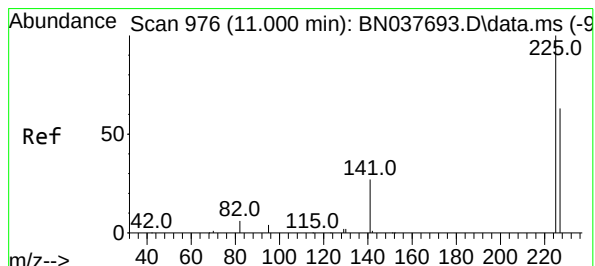
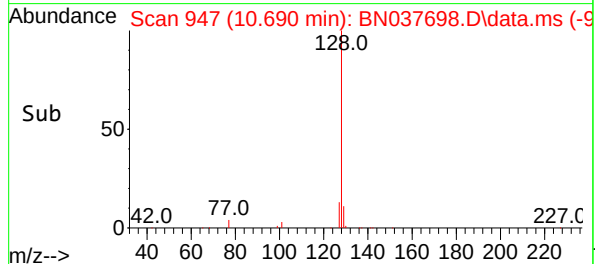
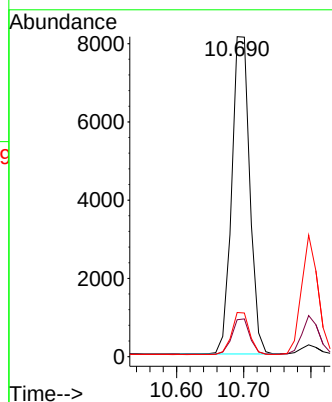
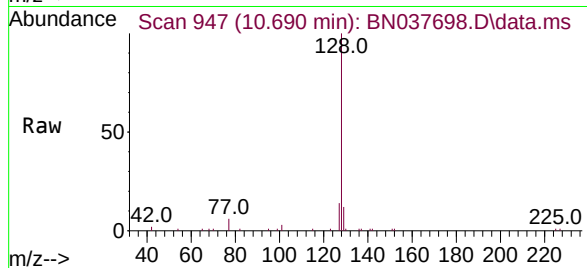




#9
Naphthalene
Concen: 0.409 ng
RT: 10.690 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

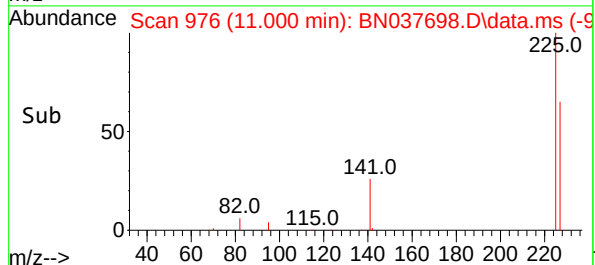
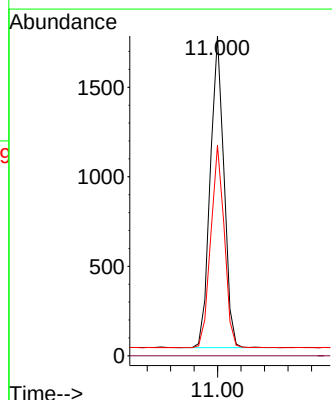
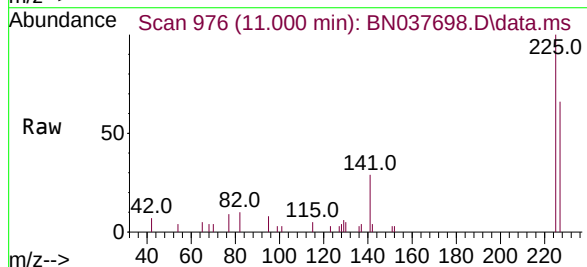
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

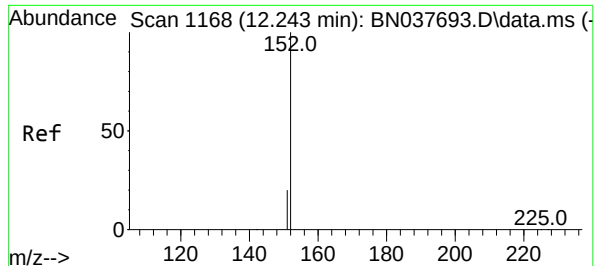
Tgt Ion:128 Resp: 15153
Ion Ratio Lower Upper
128 100
129 11.5 9.1 13.7
127 13.8 10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.420 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:225 Resp: 2814
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.2 50.9 76.3

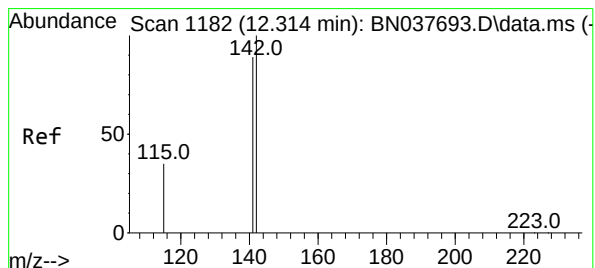
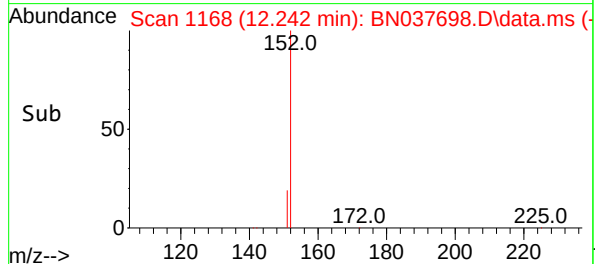
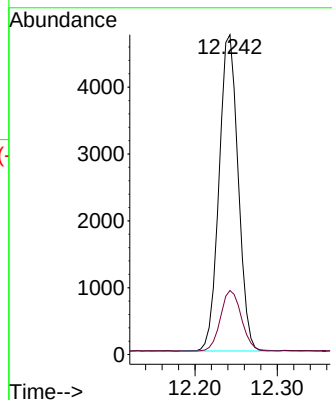
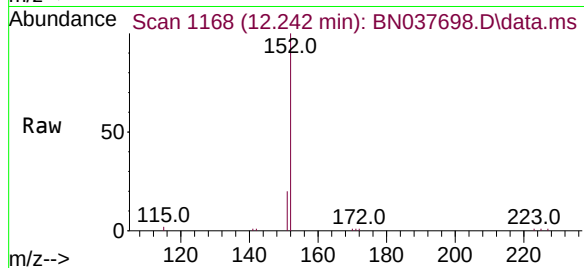




#11
2-Methylnaphthalene-d10
Concen: 0.425 ng
RT: 12.242 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

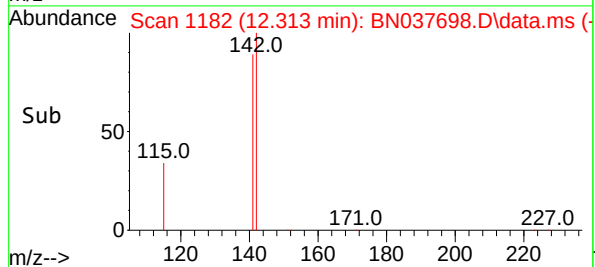
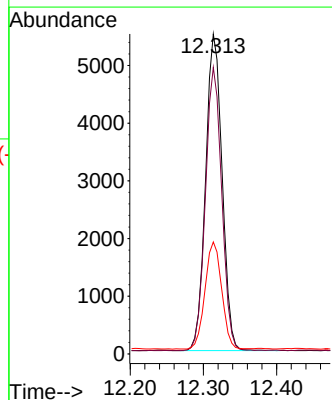
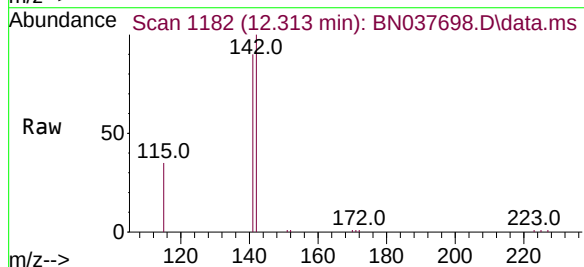
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

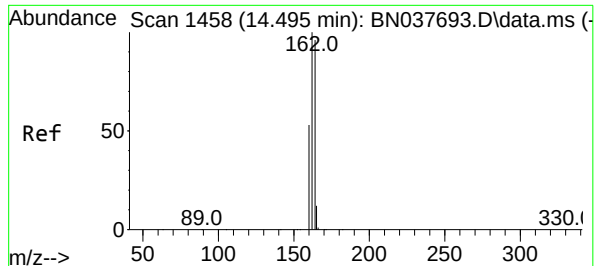
Tgt Ion:152 Resp: 7632
Ion Ratio Lower Upper
152 100
151 20.9 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.375 ng
RT: 12.313 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:142 Resp: 8593
Ion Ratio Lower Upper
142 100
141 89.5 71.6 107.4
115 35.0 28.6 43.0

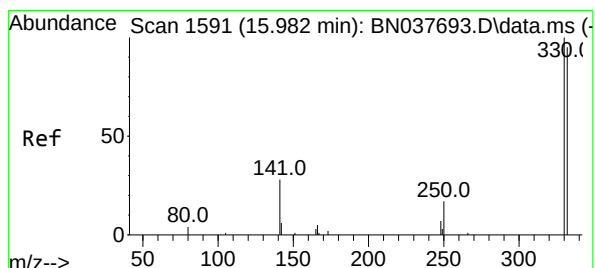
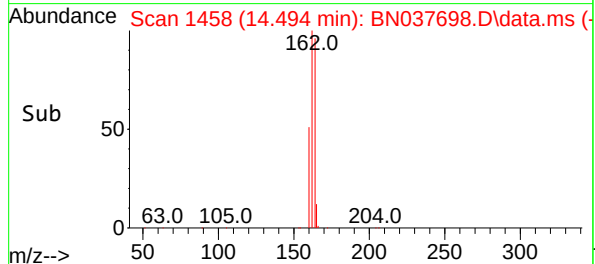
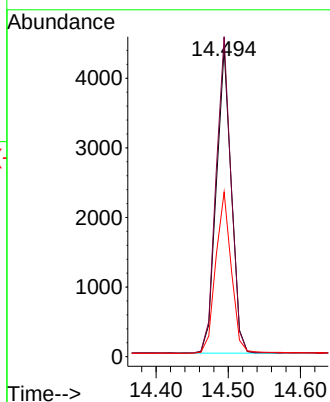
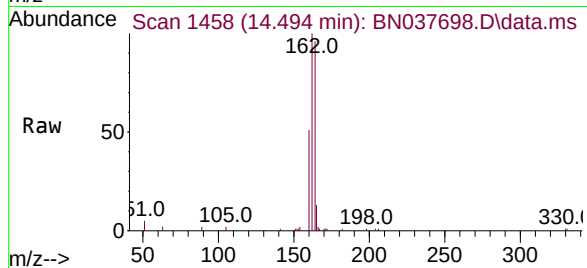




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

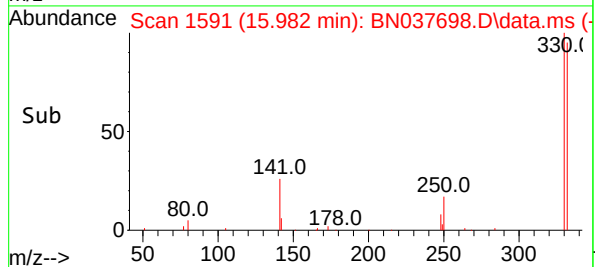
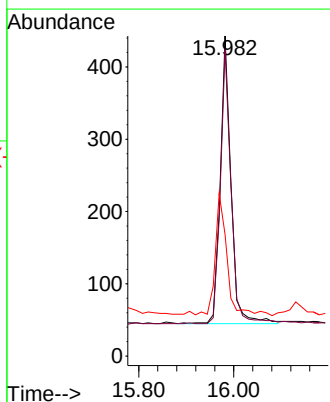
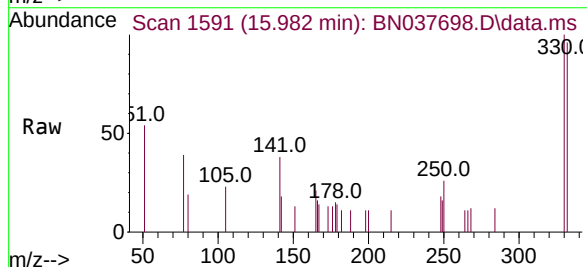
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

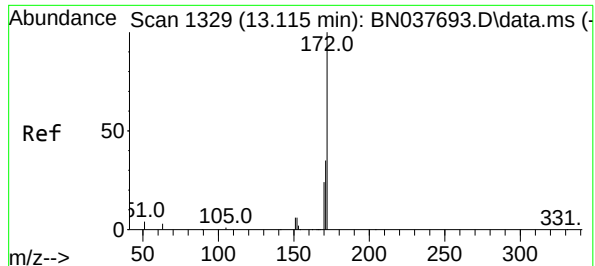
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.9	83.1	124.7
160	53.4	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.379 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion	Ratio	Lower	Upper
330	100		
332	94.8	75.3	112.9
141	45.9	35.0	52.4

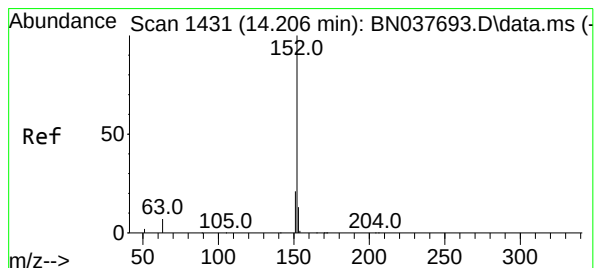
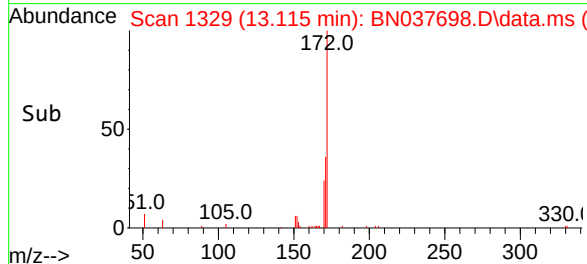
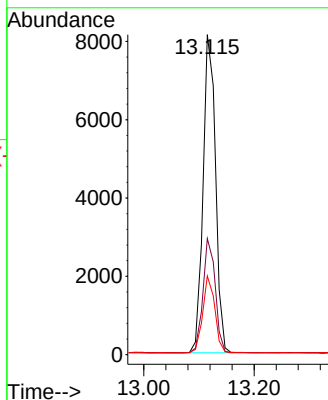
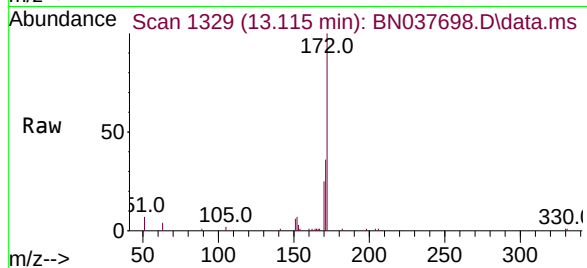




#15
2-Fluorobiphenyl
Concen: 0.476 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

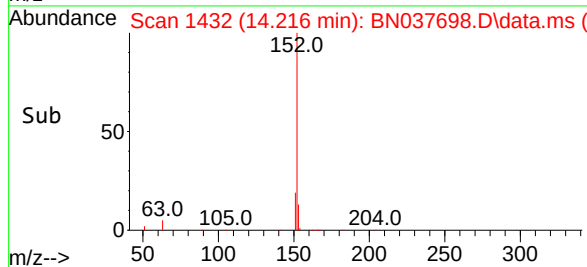
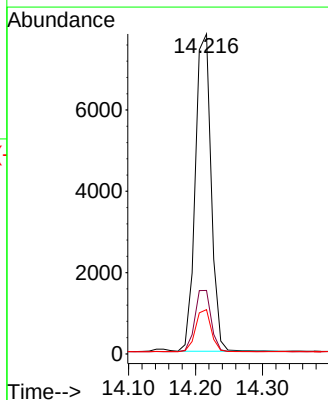
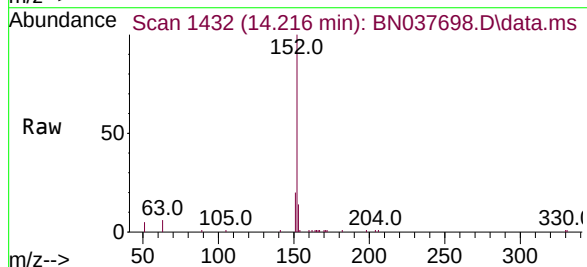
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

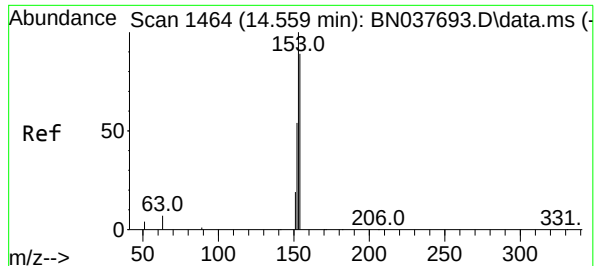
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.3	28.6	43.0
170	24.6	19.8	29.8



#16
Acenaphthylene
Concen: 0.438 ng
RT: 14.216 min Scan# 1432
Delta R.T. 0.010 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.2
153	13.2	10.4	15.6

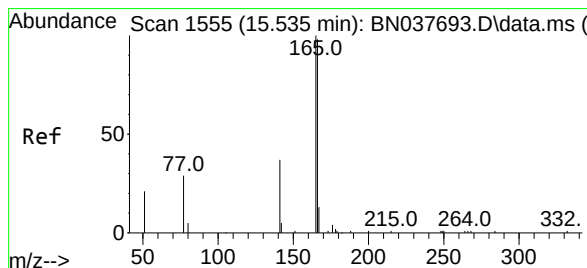
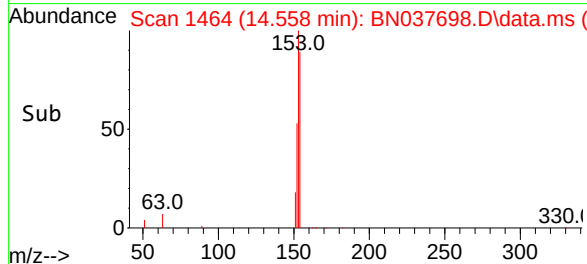
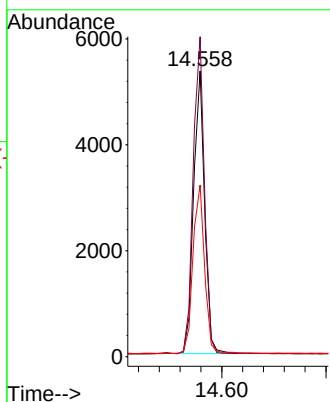
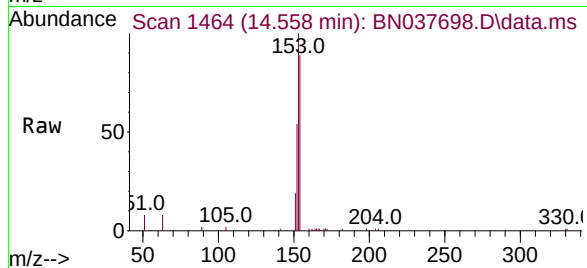




#17
Acenaphthene
Concen: 0.397 ng
RT: 14.558 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

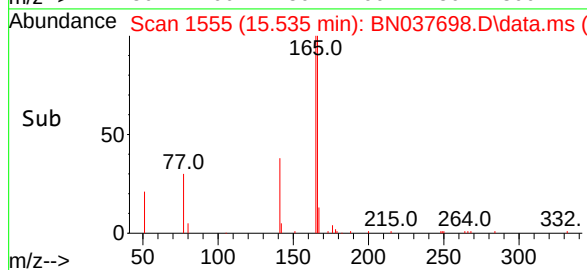
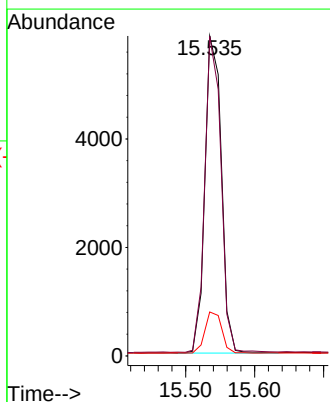
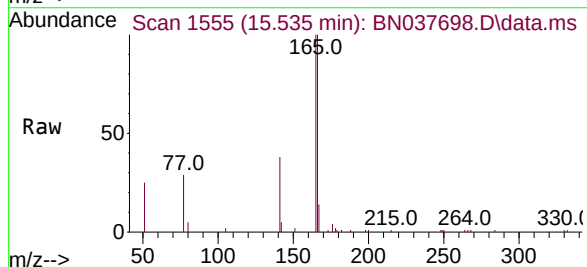
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

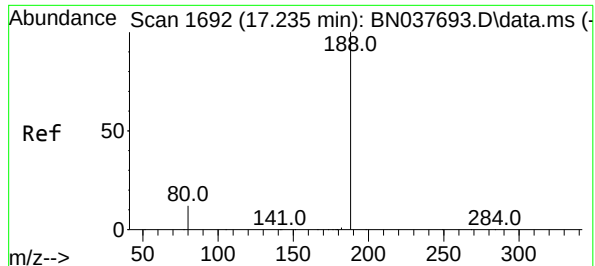
Tgt Ion:154 Resp: 7838
Ion Ratio Lower Upper
154 100
153 114.1 89.8 134.8
152 63.0 50.2 75.2



#18
Fluorene
Concen: 0.395 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:166 Resp: 9460
Ion Ratio Lower Upper
166 100
165 97.0 79.6 119.4
167 12.8 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

Instrument :

BNA_N

ClientSampleId :

ICVBN091125

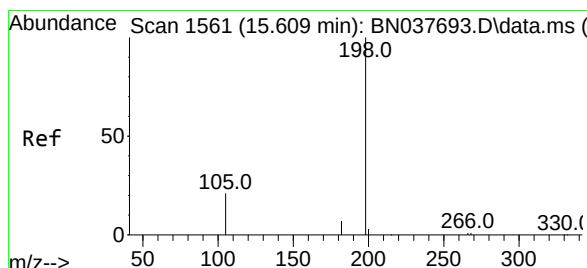
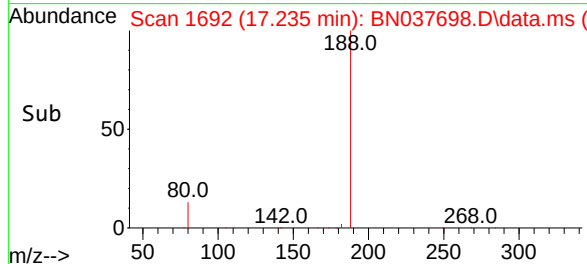
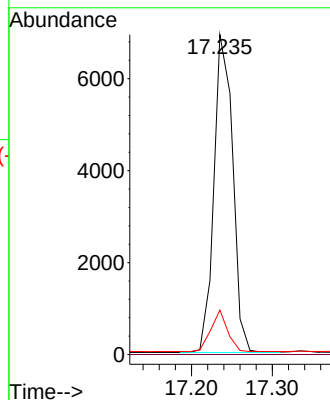
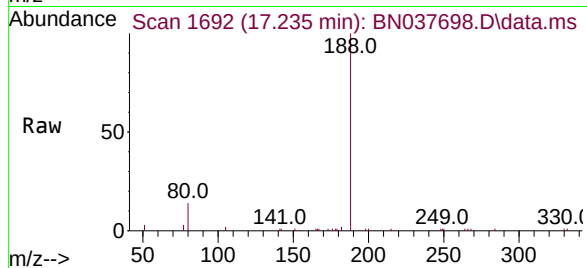
Tgt Ion:188 Resp: 11165

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.9 10.6 15.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.379 ng

RT: 15.609 min Scan# 1561

Delta R.T. 0.000 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

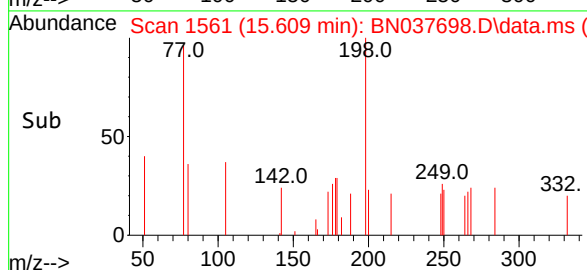
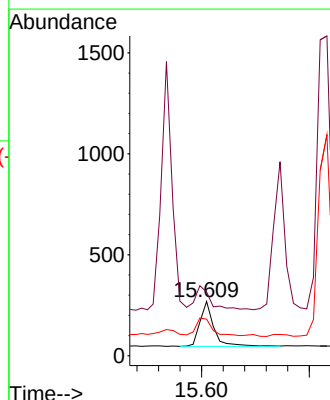
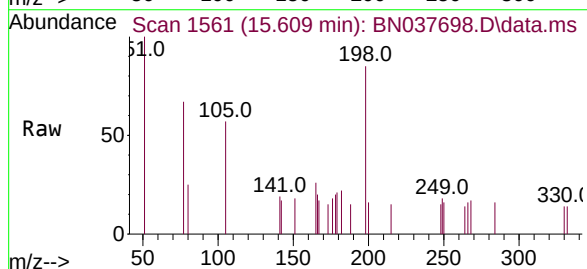
Tgt Ion:198 Resp: 392

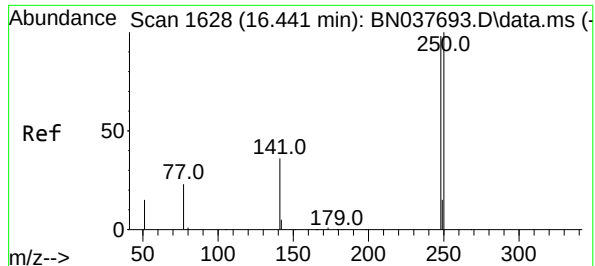
Ion Ratio Lower Upper

198 100

51 117.5 95.1 142.7

105 67.3 53.8 80.6

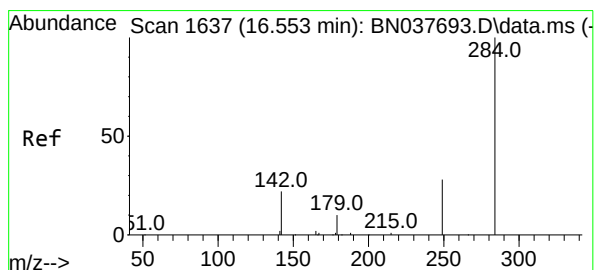
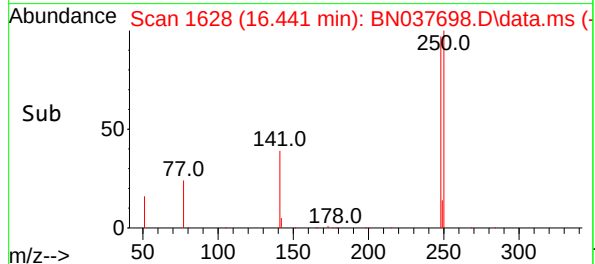
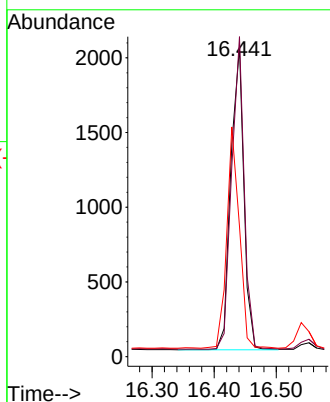
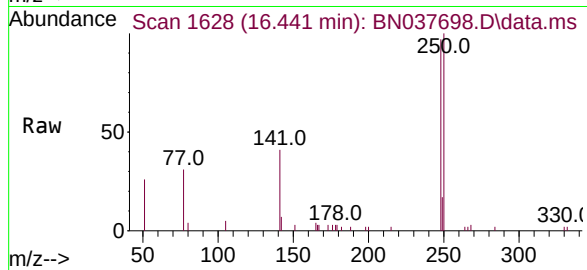




#21
4-Bromophenyl-phenylether
Concen: 0.409 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

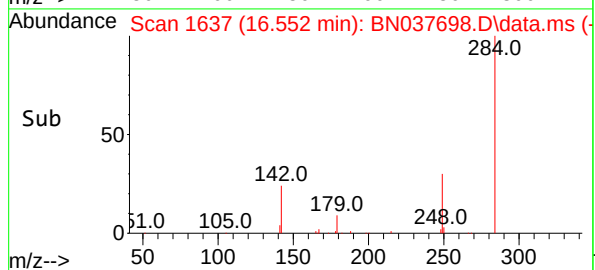
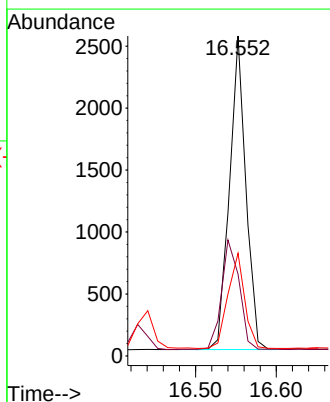
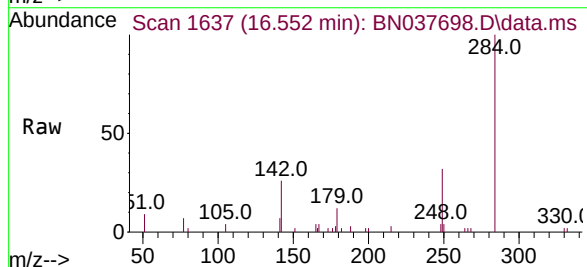
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

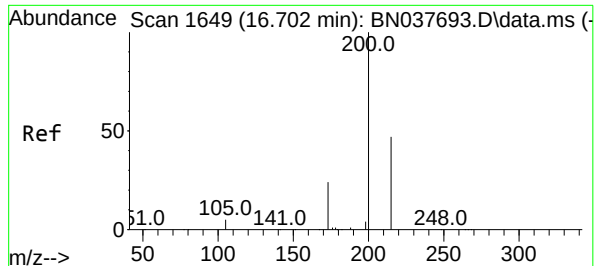
Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.5	81.5	122.3
141	42.2	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.426 ng
RT: 16.552 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.8	30.9	46.3
249	31.2	24.8	37.2

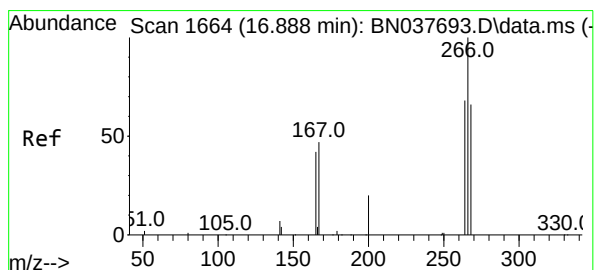
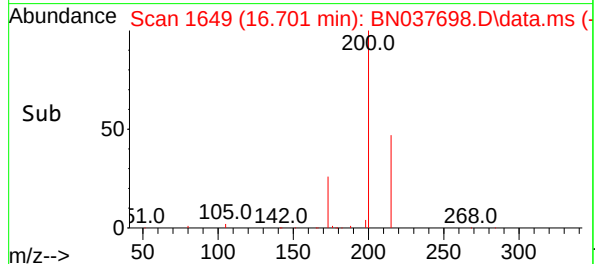
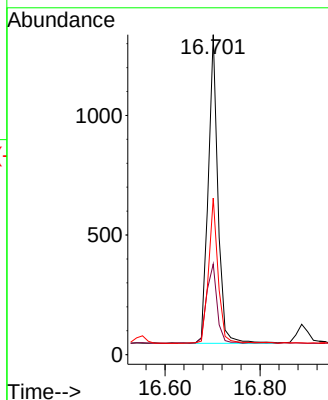
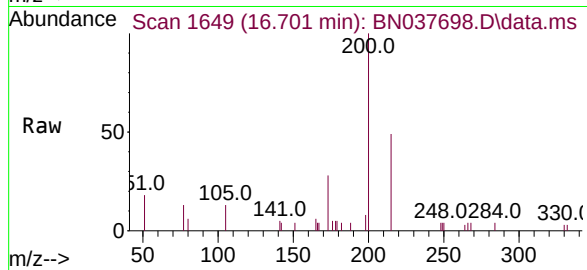




#23
Atrazine
Concen: 0.395 ng
RT: 16.701 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

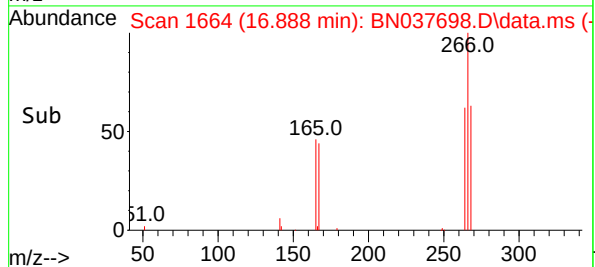
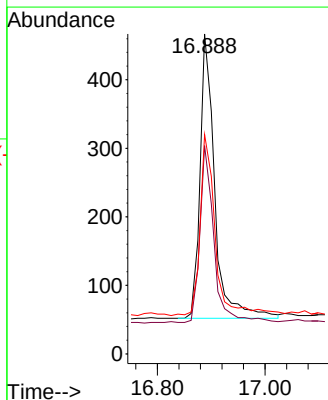
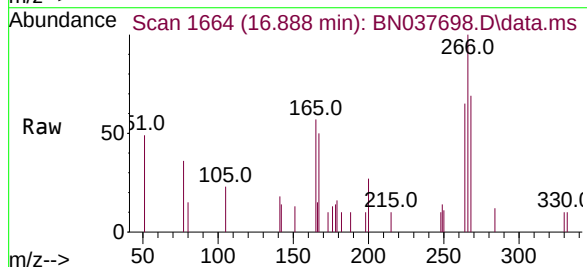
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

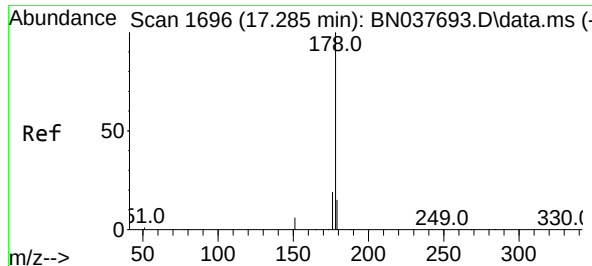
Tgt Ion	200	Resp:	1828
Ion Ratio	Lower	Upper	
200	100		
173	28.3	21.4	32.2
215	49.0	39.2	58.8



#24
Pentachlorophenol
Concen: 0.323 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion	266	Resp:	785
Ion Ratio	Lower	Upper	
266	100		
264	61.0	51.6	77.4
268	66.0	53.2	79.8

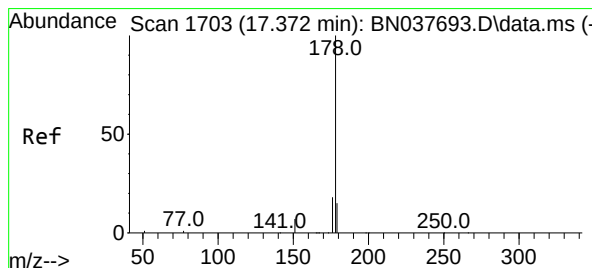
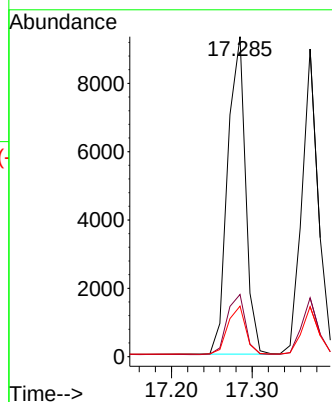
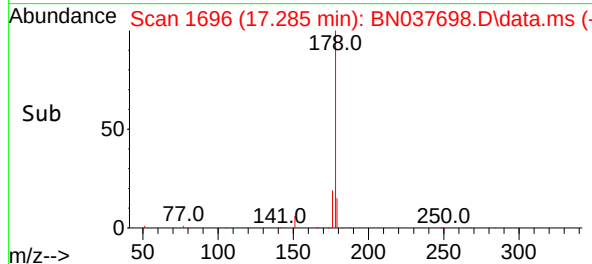
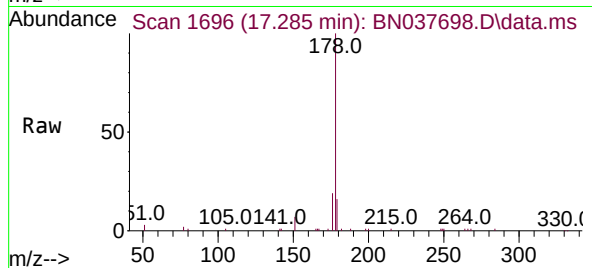




#25
Phenanthrene
Concen: 0.406 ng
RT: 17.285 min Scan# 1696
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

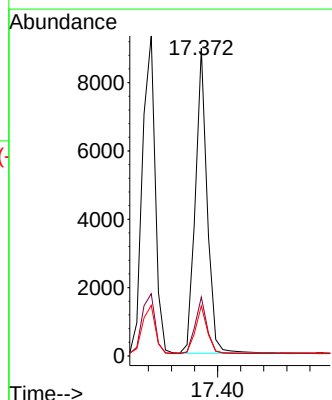
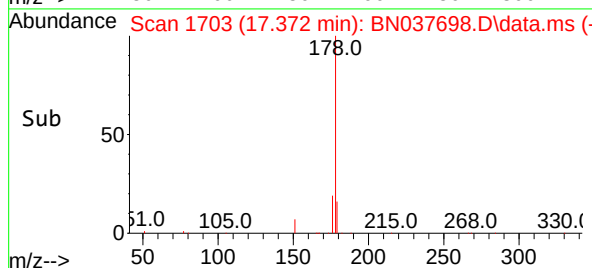
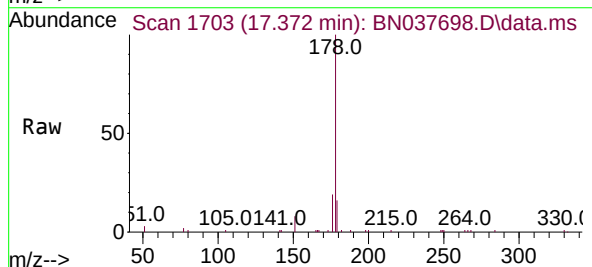
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

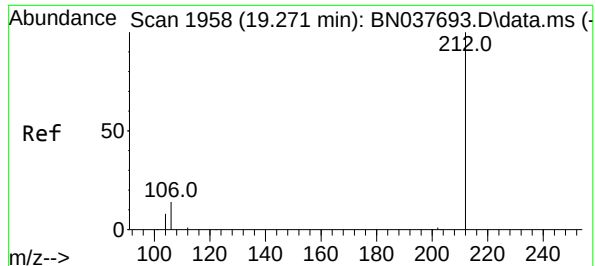
Tgt Ion	178	176	179
Resp:	14262		
Ion Ratio	100	19.4	15.6
Lower		15.3	12.2
Upper		22.9	18.2



#26
Anthracene
Concen: 0.406 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion	178	176	179
Resp:	12642		
Ion Ratio	100	18.6	15.7
Lower		14.6	12.2
Upper		22.0	18.4





#27

Fluoranthene-d10

Concen: 0.397 ng

RT: 19.271 min Scan# 1958

Delta R.T. -0.000 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

Instrument :

BNA_N

ClientSampleId :

ICVBN091125

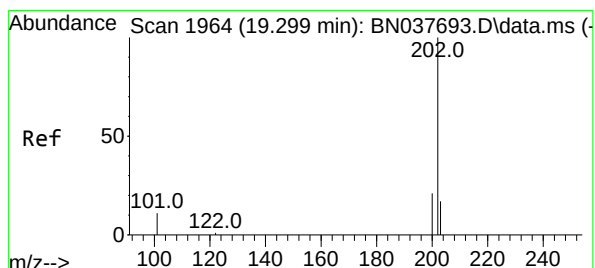
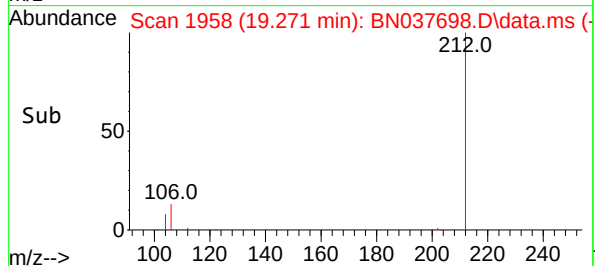
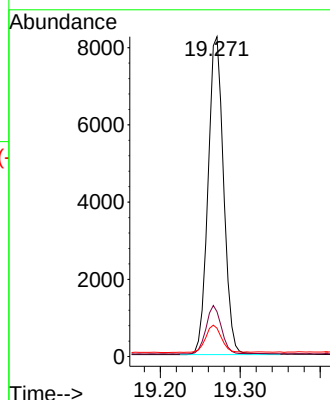
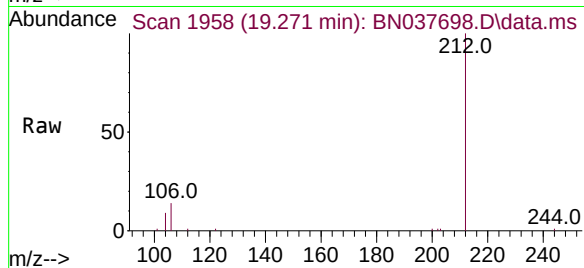
Tgt Ion:212 Resp: 11138

Ion Ratio Lower Upper

212 100

106 15.1 12.2 18.2

104 8.8 6.9 10.3



#28

Fluoranthene

Concen: 0.375 ng

RT: 19.299 min Scan# 1964

Delta R.T. -0.000 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

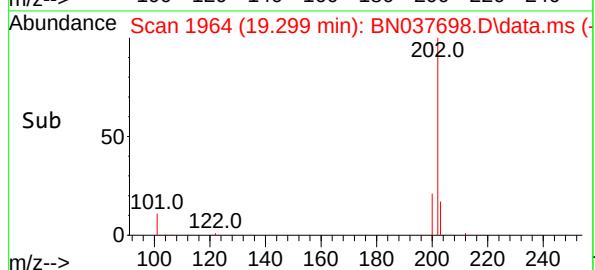
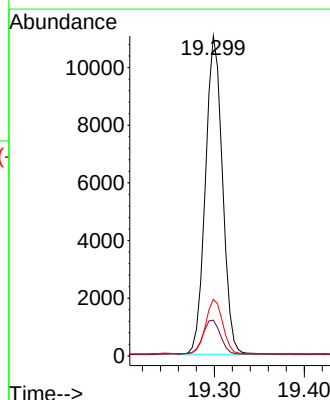
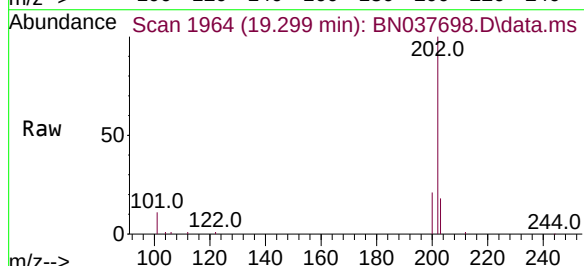
Tgt Ion:202 Resp: 14471

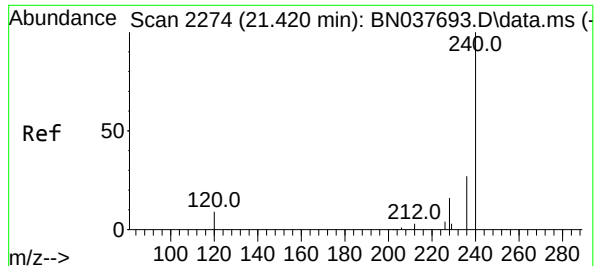
Ion Ratio Lower Upper

202 100

101 11.5 9.3 13.9

203 17.1 13.7 20.5

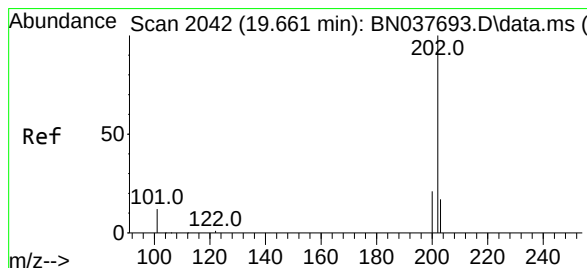
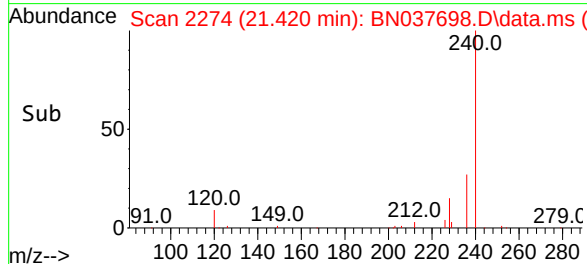
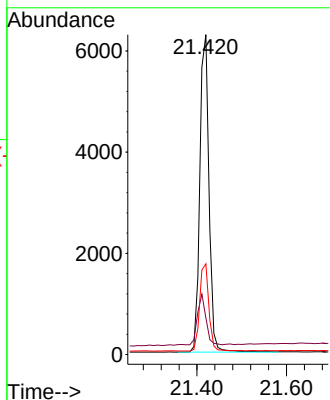
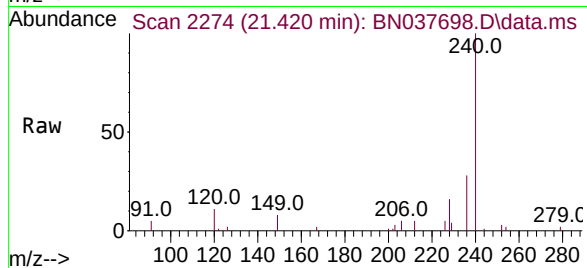




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

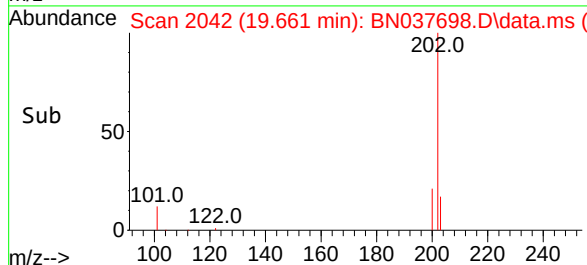
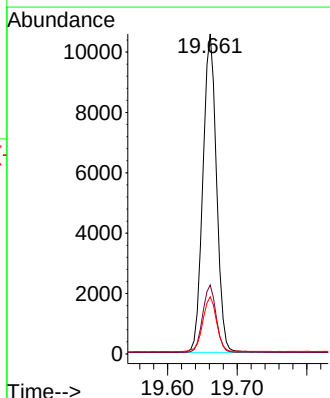
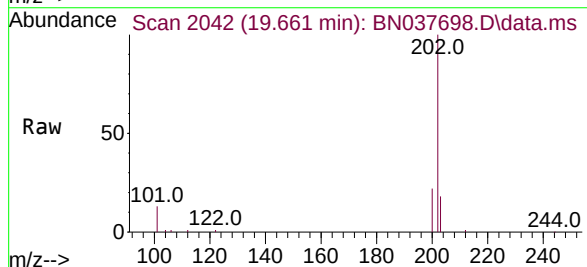
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

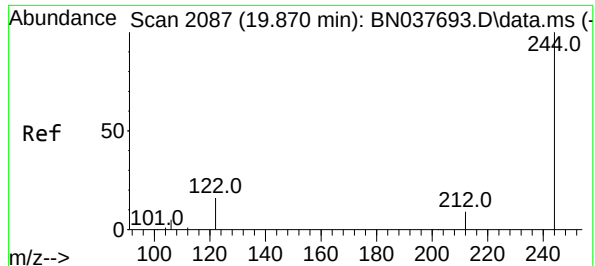
Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.5	9.2	13.8
236	28.4	22.6	33.8



#30
Pyrene
Concen: 0.410 ng
RT: 19.661 min Scan# 2042
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.8	25.2
203	17.6	14.3	21.5

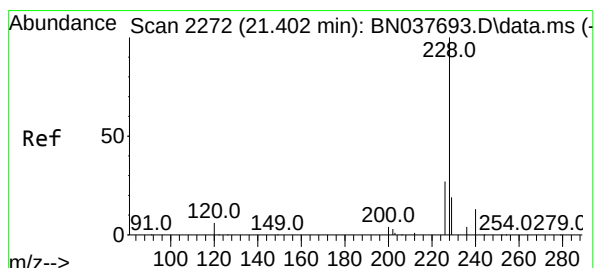
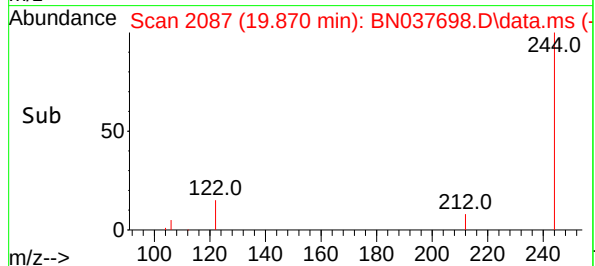
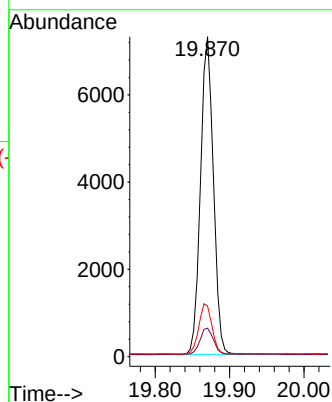
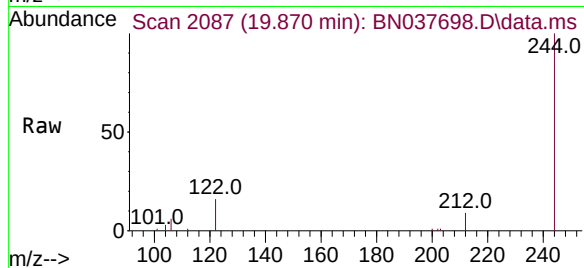




#31
Terphenyl-d14
Concen: 0.484 ng
RT: 19.870 min Scan# 2087
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

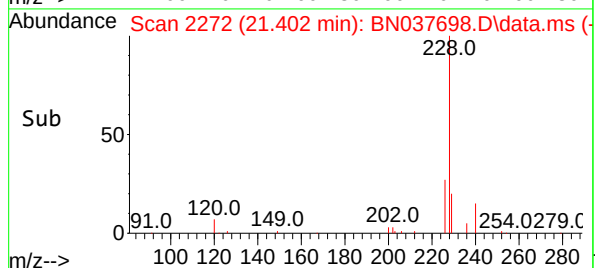
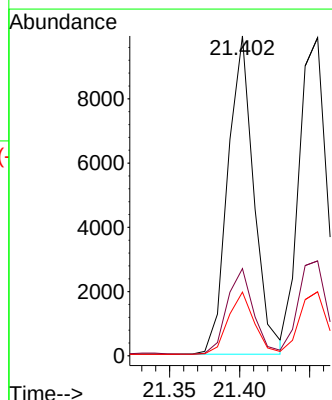
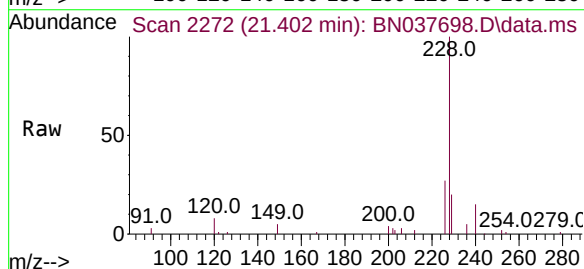
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

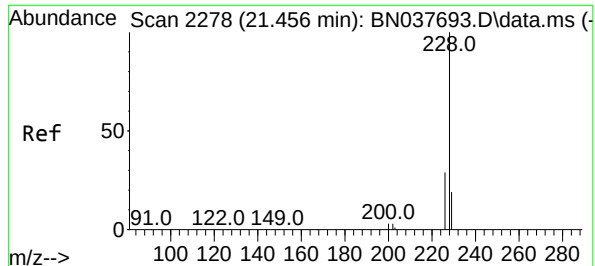
Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.9	7.5	11.3
122	15.8	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.411 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.3	22.2	33.2
229	19.9	15.8	23.6





#33

Chrysene

Concen: 0.418 ng

RT: 21.456 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

Instrument :

BNA_N

ClientSampleId :

ICVBN091125

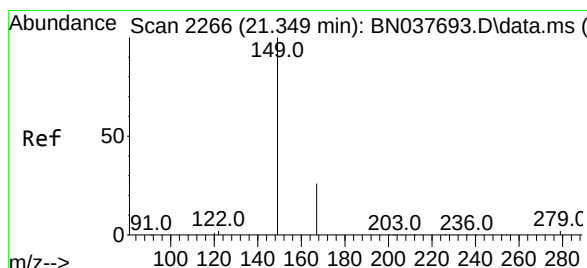
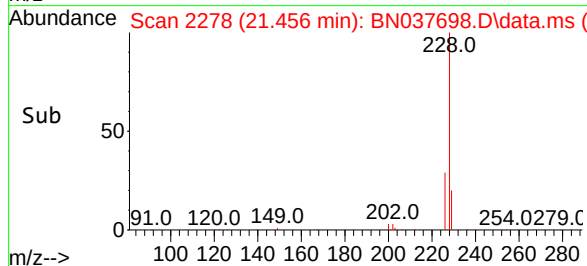
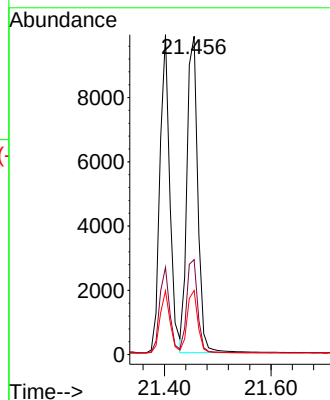
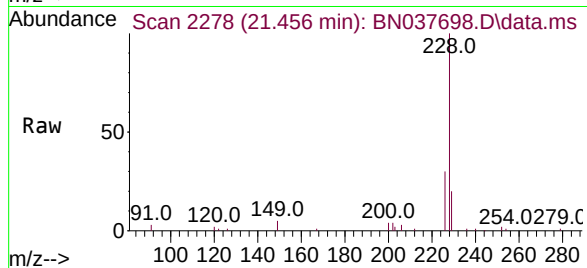
Tgt Ion:228 Resp: 13963

Ion Ratio Lower Upper

228 100

226 29.9 23.5 35.3

229 20.1 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.351 ng

RT: 21.348 min Scan# 2266

Delta R.T. -0.000 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

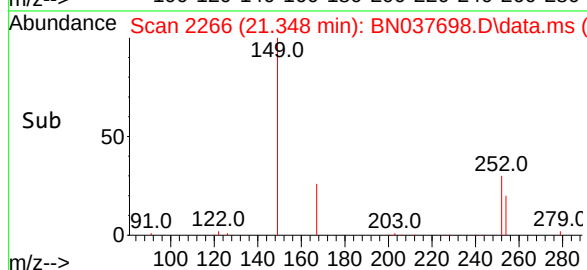
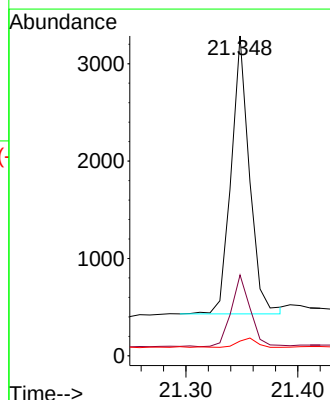
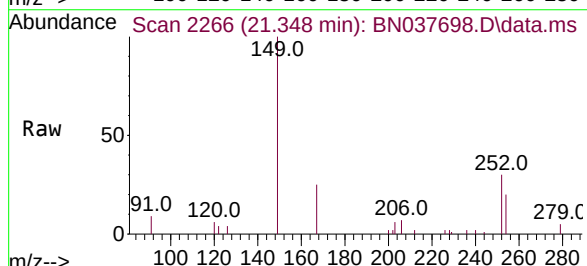
Tgt Ion:149 Resp: 3245

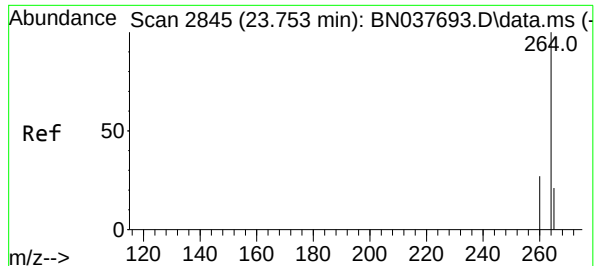
Ion Ratio Lower Upper

149 100

167 26.8 20.8 31.2

279 3.3 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.750 min Scan# 2844

Delta R.T. -0.003 min

Lab File: BN037698.D

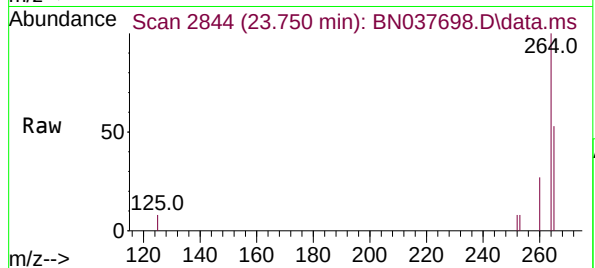
Acq: 11 Sep 2025 14:09

Instrument :

BNA_N

ClientSampleId :

ICVBN091125



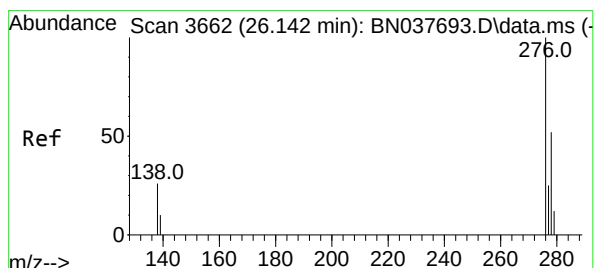
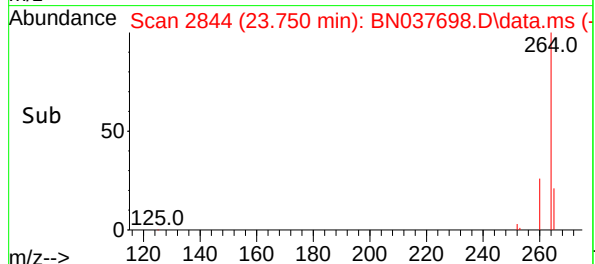
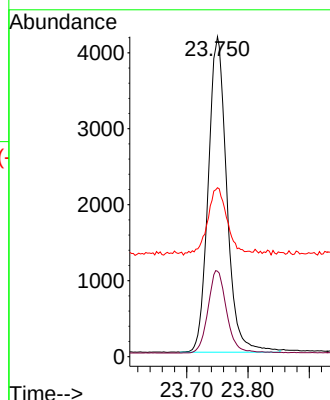
Tgt Ion:264 Resp: 8751

Ion Ratio Lower Upper

264 100

260 26.7 21.8 32.8

265 52.8 39.4 59.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.420 ng

RT: 26.139 min Scan# 3661

Delta R.T. -0.003 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

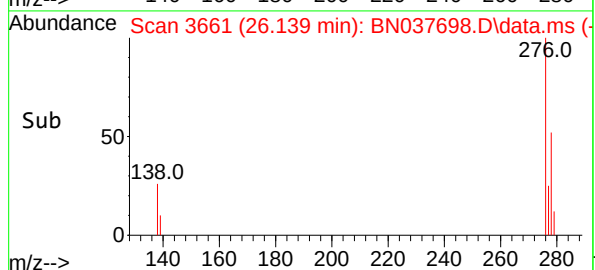
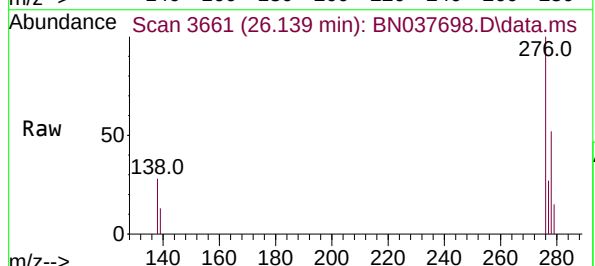
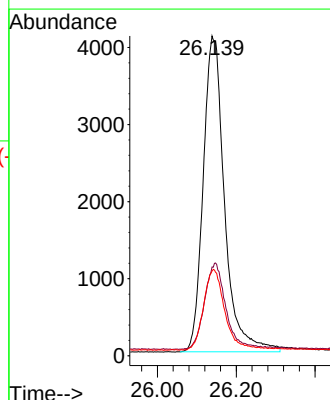
Tgt Ion:276 Resp: 15430

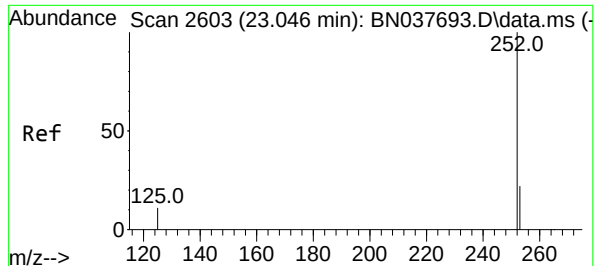
Ion Ratio Lower Upper

276 100

138 27.4 21.9 32.9

277 25.3 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.398 ng

RT: 23.045 min Scan# 2603

Delta R.T. -0.000 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

Instrument :

BNA_N

ClientSampleId :

ICVBN091125

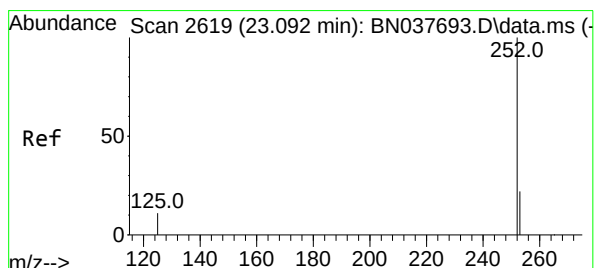
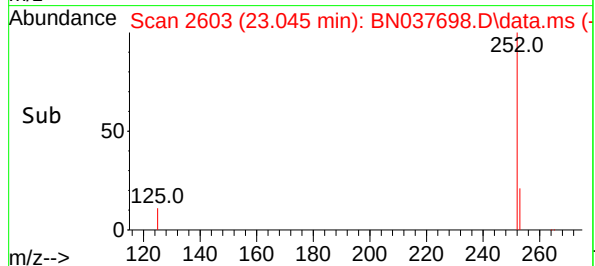
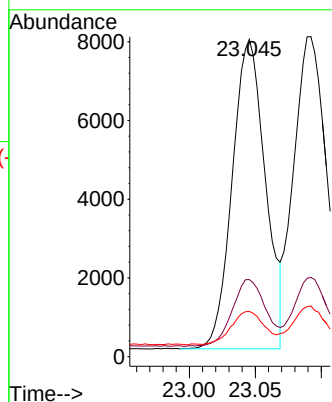
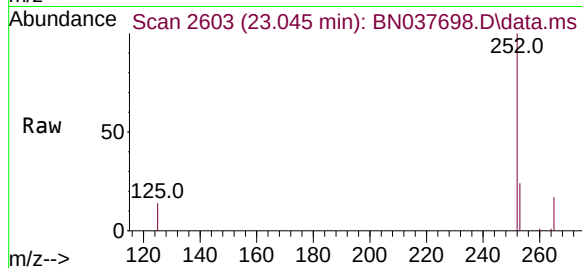
Tgt Ion:252 Resp: 13718

Ion Ratio Lower Upper

252 100

253 24.3 19.4 29.2

125 14.3 11.2 16.8



#38

Benzo(k)fluoranthene

Concen: 0.412 ng

RT: 23.092 min Scan# 2619

Delta R.T. -0.000 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

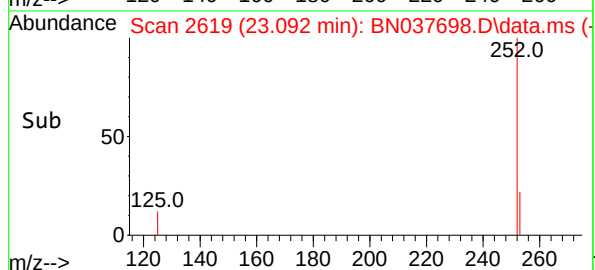
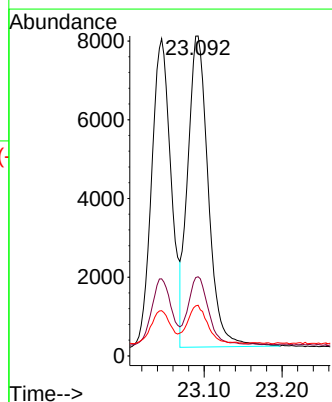
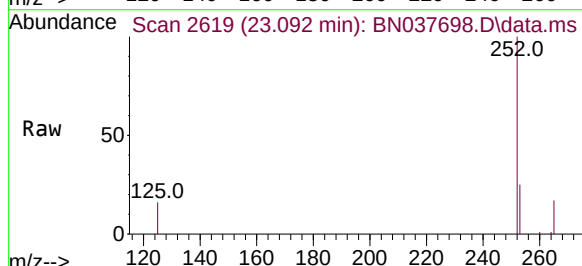
Tgt Ion:252 Resp: 14465

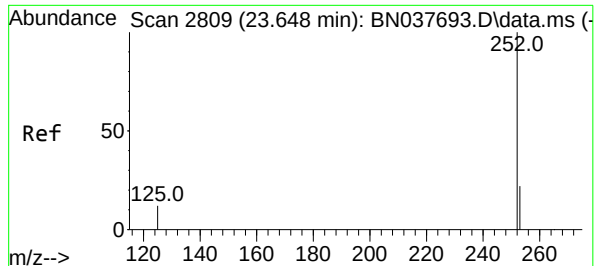
Ion Ratio Lower Upper

252 100

253 24.7 19.4 29.0

125 15.8 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.433 ng

RT: 23.648 min Scan# 2809

Delta R.T. -0.000 min

Lab File: BN037698.D

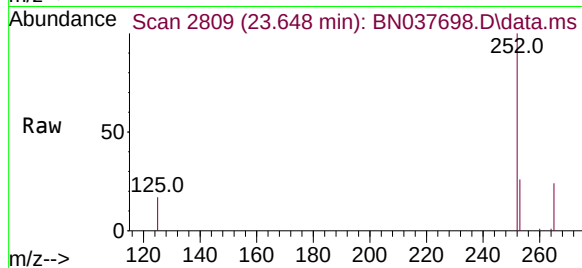
Acq: 11 Sep 2025 14:09

Instrument :

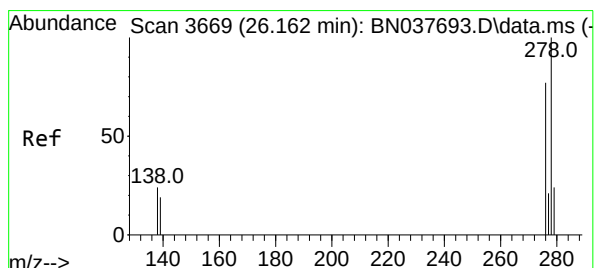
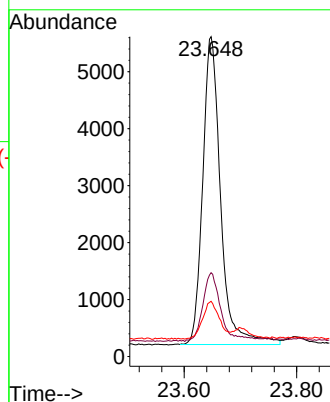
BNA_N

ClientSampleId :

ICVBN091125



Tgt Ion:	252	Resp:	11950
Ion Ratio	Lower	Upper	
252	100		
253	26.2	20.8	31.2
125	17.3	13.9	20.9



#40

Dibenzo(a,h)anthracene

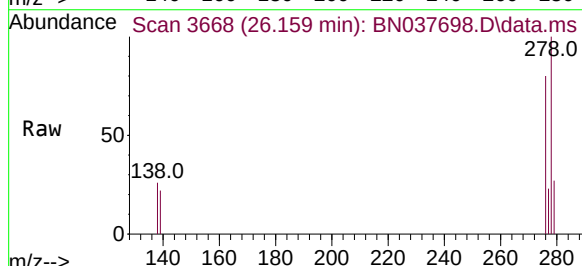
Concen: 0.419 ng

RT: 26.159 min Scan# 3668

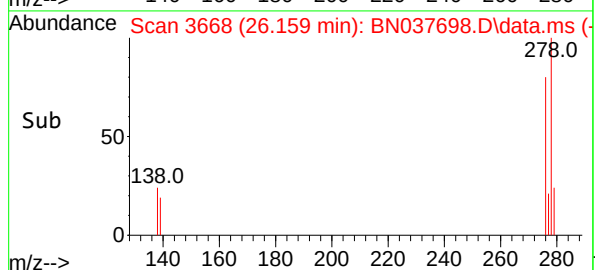
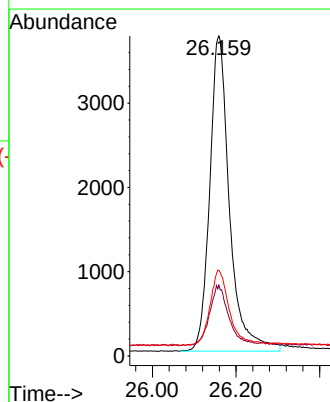
Delta R.T. -0.003 min

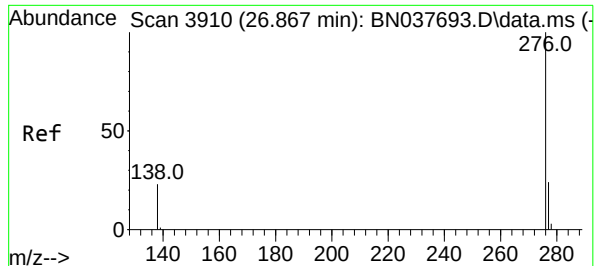
Lab File: BN037698.D

Acq: 11 Sep 2025 14:09



Tgt Ion:	278	Resp:	12290
Ion Ratio	Lower	Upper	
278	100		
139	22.1	17.8	26.6
279	26.7	22.0	33.0





#41

Benzo(g,h,i)perylene

Concen: 0.398 ng

RT: 26.864 min Scan# 39

Delta R.T. -0.003 min

Lab File: BN037698.D

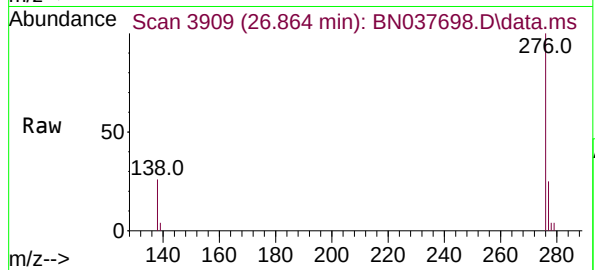
Acq: 11 Sep 2025 14:09

Instrument :

BNA_N

ClientSampleId :

ICVBN091125



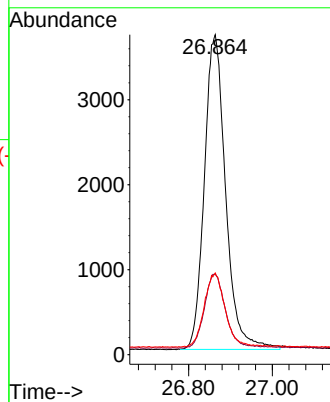
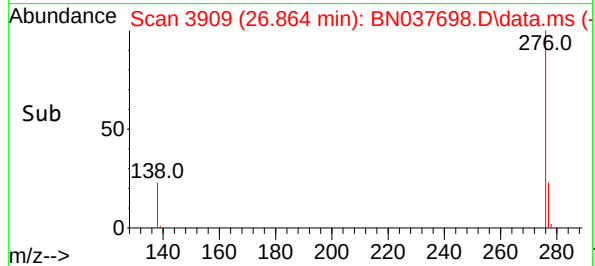
Tgt Ion:276 Resp: 13095

Ion Ratio Lower Upper

276 100

277 25.1 20.6 31.0

138 25.5 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
 Data File : BN037698.D
 Acq On : 11 Sep 2025 14:09
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN091125

Quant Time: Sep 11 16:00:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
2	1,4-Dioxane	0.417	0.489	-17.3	117	0.00
3	n-Nitrosodimethylamine	0.544	0.581	-6.8	104	0.00
4 S	2-Fluorophenol	0.918	0.904	1.5	102	0.00
5 S	Phenol-d6	1.191	1.132	5.0	99	0.00
6	bis(2-Chloroethyl)ether	1.064	1.147	-7.8	108	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	102	0.00
8 S	Nitrobenzene-d5	0.293	0.332	-13.3	119	0.00
9	Naphthalene	1.093	1.118	-2.3	106	0.00
10	Hexachlorobutadiene	0.198	0.208	-5.1	108	0.00
11 SURR	2-Methylnaphthalene-d10	0.530	0.563	-6.2	116	0.00
12	2-Methylnaphthalene	0.676	0.634	6.2	98	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	103	0.00
14 S	2,4,6-Tribromophenol	0.104	0.099	4.8	101	0.00
15 S	2-Fluorobiphenyl	1.673	1.991	-19.0	124	0.00
16	Acenaphthylene	1.834	2.007	-9.4	116	0.01
17	Acenaphthene	1.240	1.230	0.8	104	0.00
18	Fluorene	1.502	1.485	1.1	106	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	99	0.00
20	4,6-Dinitro-2-methylphenol	0.037	0.035	5.4	105	0.00
21	4-Bromophenyl-phenylether	0.261	0.266	-1.9	105	0.00
22	Hexachlorobenzene	0.300	0.320	-6.7	108	0.00
23	Atrazine	0.166	0.164	1.2	107	0.00
24	Pentachlorophenol	0.087	0.070	19.5	94	0.00
25	Phenanthrene	1.259	1.277	-1.4	104	0.00
26	Anthracene	1.116	1.132	-1.4	105	0.00
27 SURR	Fluoranthene-d10	1.004	0.998	0.6	106	0.00
28	Fluoranthene	1.381	1.296	6.2	98	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	95	0.00
30	Pyrene	1.566	1.604	-2.4	98	0.00
31 S	Terphenyl-d14	0.812	0.981	-20.8	117	0.00
32	Benzo(a)anthracene	1.395	1.434	-2.8	101	0.00
33	Chrysene	1.496	1.563	-4.5	100	0.00
34	Bis(2-ethylhexyl)phthalate	0.414	0.363	12.3	92	0.00
35 I	Perylene-d12	1.000	1.000	0.0	98	0.00
36	Indeno(1,2,3-cd)pyrene	1.681	1.763	-4.9	112	0.00
37	Benzo(b)fluoranthene	1.575	1.568	0.4	98	0.00
38	Benzo(k)fluoranthene	1.606	1.653	-2.9	106	0.00
39 C	Benzo(a)pyrene	1.261	1.366	-8.3	111	0.00
40	Dibenzo(a,h)anthracene	1.342	1.404	-4.6	113	0.00
41	Benzo(g,h,i)perylene	1.506	1.496	0.7	101	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
 Data File : BN037698.D
 Acq On : 11 Sep 2025 14:09
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICBVN091125

Quant Time: Sep 11 16:00:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	101	0.00
2	1,4-Dioxane	0.400	0.469	-17.2	117	0.00
3	n-Nitrosodimethylamine	0.400	0.427	-6.7	104	0.00
4 S	2-Fluorophenol	0.400	0.394	1.5	102	0.00
5 S	Phenol-d6	0.400	0.380	5.0	99	0.00
6	bis(2-Chloroethyl)ether	0.400	0.431	-7.7	108	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	102	0.00
8 S	Nitrobenzene-d5	0.400	0.454	-13.5	119	0.00
9	Naphthalene	0.400	0.409	-2.2	106	0.00
10	Hexachlorobutadiene	0.400	0.420	-5.0	108	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.425	-6.2	116	0.00
12	2-Methylnaphthalene	0.400	0.375	6.3	98	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	103	0.00
14 S	2,4,6-Tribromophenol	0.400	0.379	5.3	101	0.00
15 S	2-Fluorobiphenyl	0.400	0.476	-19.0	124	0.00
16	Acenaphthylene	0.400	0.438	-9.5	116	0.01
17	Acenaphthene	0.400	0.397	0.8	104	0.00
18	Fluorene	0.400	0.395	1.3	106	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	99	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.379	5.3	105	0.00
21	4-Bromophenyl-phenylether	0.400	0.409	-2.2	105	0.00
22	Hexachlorobenzene	0.400	0.426	-6.5	108	0.00
23	Atrazine	0.400	0.395	1.3	107	0.00
24	Pentachlorophenol	0.400	0.323	19.3	94	0.00
25	Phenanthrene	0.400	0.406	-1.5	104	0.00
26	Anthracene	0.400	0.406	-1.5	105	0.00
27 SURR	Fluoranthene-d10	0.400	0.397	0.8	106	0.00
28	Fluoranthene	0.400	0.375	6.3	98	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	95	0.00
30	Pyrene	0.400	0.410	-2.5	98	0.00
31 S	Terphenyl-d14	0.400	0.484	-21.0	117	0.00
32	Benzo(a)anthracene	0.400	0.411	-2.7	101	0.00
33	Chrysene	0.400	0.418	-4.5	100	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.351	12.3	92	0.00
35 I	Perylene-d12	0.400	0.400	0.0	98	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.420	-5.0	112	0.00
37	Benzo(b)fluoranthene	0.400	0.398	0.5	98	0.00
38	Benzo(k)fluoranthene	0.400	0.412	-3.0	106	0.00
39 C	Benzo(a)pyrene	0.400	0.433	-8.2	111	0.00
40	Dibenzo(a,h)anthracene	0.400	0.419	-4.7	113	0.00
41	Benzo(g,h,i)perylene	0.400	0.398	0.5	101	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:	<u>Alliance</u>	Contract:	<u>AECO15</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3095</u>
Instrument ID:	<u>BNA_N</u>	Calibration Date/Time:	<u>09/17/2025 11:25</u>
Lab File ID:	<u>BN037740.D</u>	Init. Calib. Date(s):	<u>09/11/2025 09/11/2025</u>
EPA Sample No.:	<u>SSTDCCC0.4</u>	Init. Calib. Time(s):	<u>09:56 13:33</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.517		-2.5	20.0
Fluoranthene-d10	1.004	0.936		-6.8	20.0
2-Fluorophenol	0.918	0.926		0.9	20.0
Phenol-d6	1.191	1.176		-1.3	20.0
Nitrobenzene-d5	0.293	0.284		-3.1	20.0
2-Fluorobiphenyl	1.673	1.620		-3.2	20.0
2,4,6-Tribromophenol	0.104	0.123		18.3	20.0
Terphenyl-d14	0.812	0.757		-6.8	20.0
1,4-Dioxane	0.417	0.449		7.7	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
 Data File : BN037740.D
 Acq On : 17 Sep 2025 11:25
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Sep 17 12:51:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

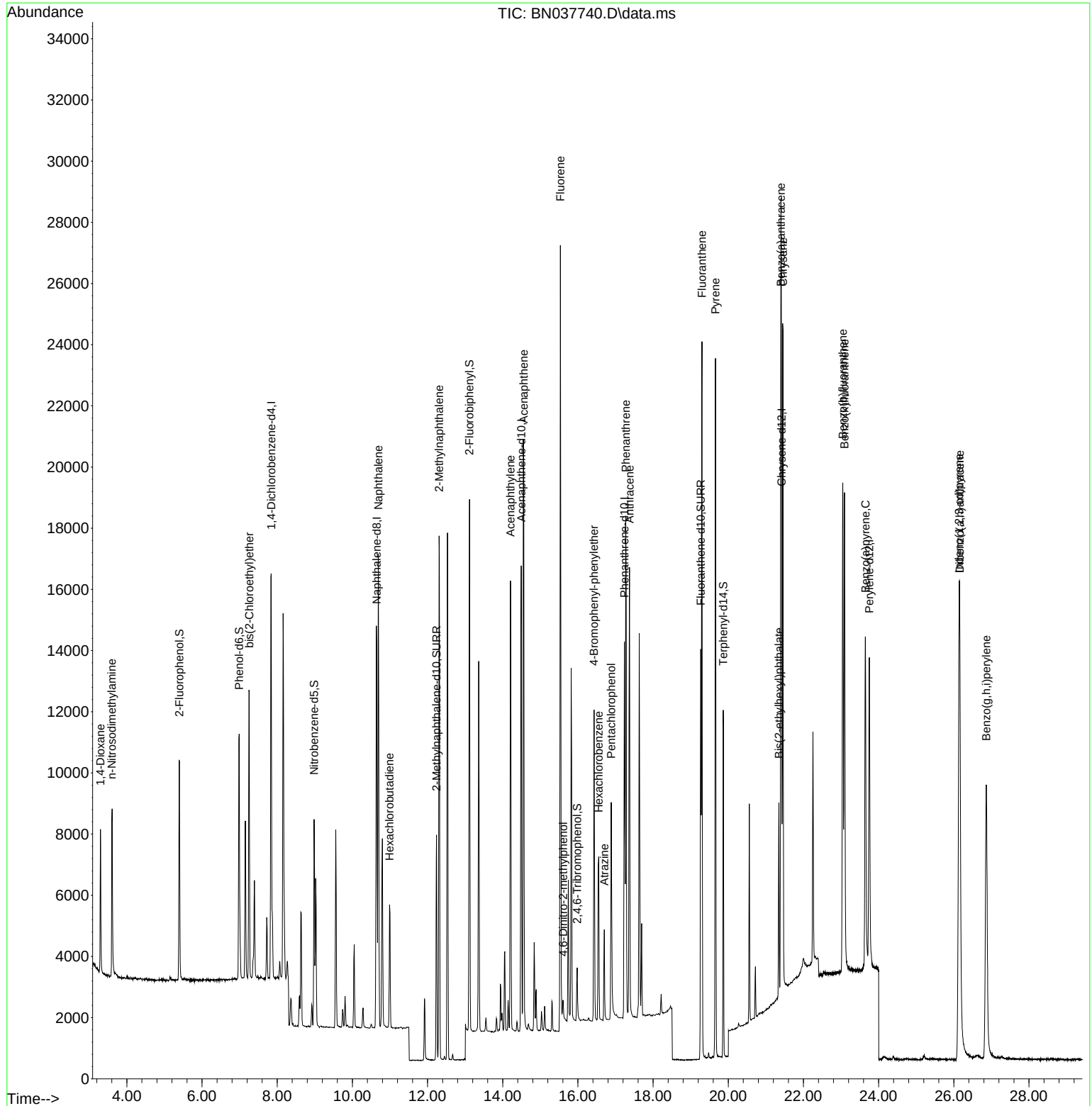
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	6660	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	18396	0.400	ng	# 0.00
13) Acenaphthene-d10	14.495	164	8930	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	15814	0.400	ng	0.00
29) Chrysene-d12	21.420	240	13841	0.400	ng	0.00
35) Perylene-d12	23.753	264	14132	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	6167	0.403	ng	0.00
5) Phenol-d6	6.988	99	7831	0.395	ng	0.00
8) Nitrobenzene-d5	8.982	82	5219	0.388	ng	-0.01
11) 2-Methylnaphthalene-d10	12.238	152	9519	0.391	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	1095	0.470	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	14468	0.387	ng	0.00
27) Fluoranthene-d10	19.267	212	14803	0.373	ng	0.00
31) Terphenyl-d14	19.866	244	10481	0.373	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	2988	0.431	ng	92
3) n-Nitrosodimethylamine	3.601	42	3189	0.352	ng	82
6) bis(2-Chloroethyl)ether	7.255	93	7035	0.397	ng	98
9) Naphthalene	10.690	128	19558	0.389	ng	100
10) Hexachlorobutadiene	10.989	225	3461	0.380	ng	# 99
12) 2-Methylnaphthalene	12.309	142	12157	0.391	ng	99
16) Acenaphthylene	14.206	152	15354	0.375	ng	100
17) Acenaphthene	14.559	154	10379	0.375	ng	99
18) Fluorene	15.535	166	12010	0.358	ng	99
20) 4,6-Dinitro-2-methylph...	15.609	198	512	0.350	ng	83
21) 4-Bromophenyl-phenylether	16.429	248	4071	0.395	ng	# 73
22) Hexachlorobenzene	16.553	284	4849	0.409	ng	96
23) Atrazine	16.702	200	2432	0.371	ng	99
24) Pentachlorophenol	16.888	266	3857	1.120	ng	97
25) Phenanthrene	17.273	178	19056	0.383	ng	100
26) Anthracene	17.372	178	16581	0.376	ng	100
28) Fluoranthene	19.299	202	20777	0.381	ng	99
30) Pyrene	19.661	202	20869	0.385	ng	100
32) Benzo(a)anthracene	21.402	228	18615	0.386	ng	99
33) Chrysene	21.456	228	20188	0.390	ng	100
34) Bis(2-ethylhexyl)phtha...	21.349	149	6080	0.425	ng	97
36) Indeno(1,2,3-cd)pyrene	26.139	276	23556	0.397	ng	98
37) Benzo(b)fluoranthene	23.046	252	21437	0.385	ng	99
38) Benzo(k)fluoranthene	23.092	252	21654	0.382	ng	100
39) Benzo(a)pyrene	23.648	252	17359	0.390	ng	98
40) Dibenzo(a,h)anthracene	26.159	278	18747	0.395	ng	97
41) Benzo(g,h,i)perylene	26.864	276	21072	0.396	ng	97

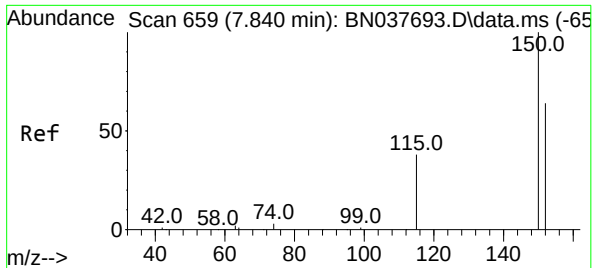
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
 Data File : BN037740.D
 Acq On : 17 Sep 2025 11:25
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Sep 17 12:51:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

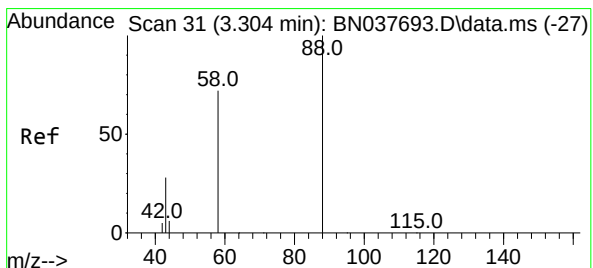
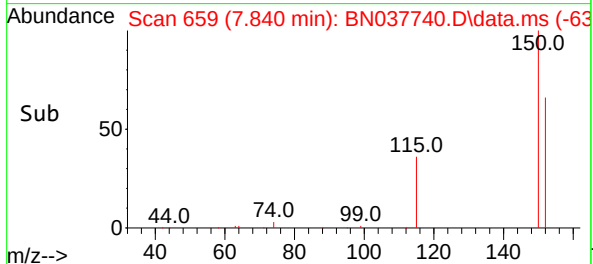
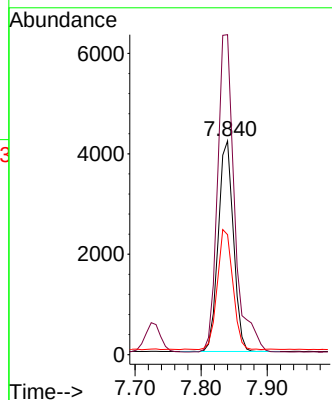
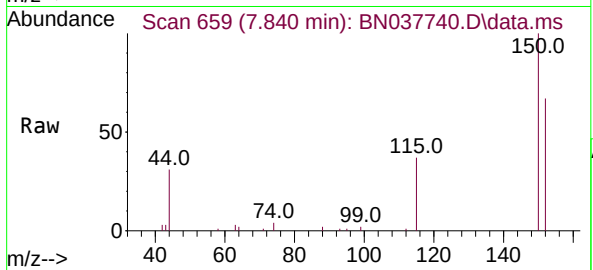




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

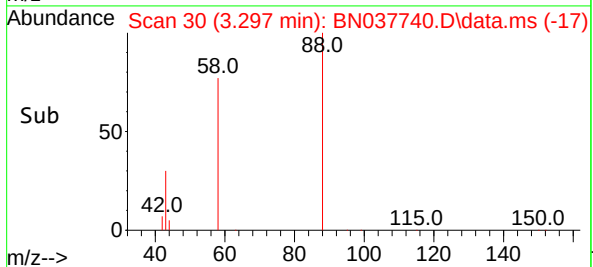
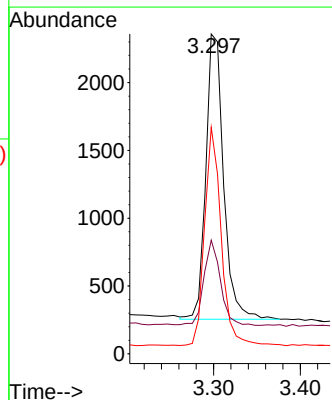
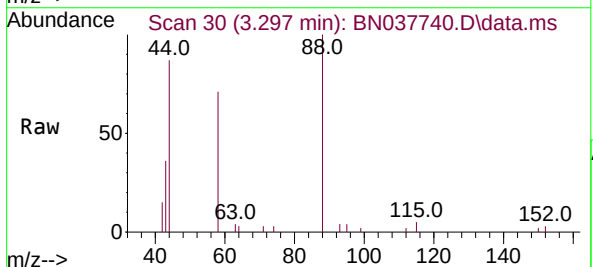
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

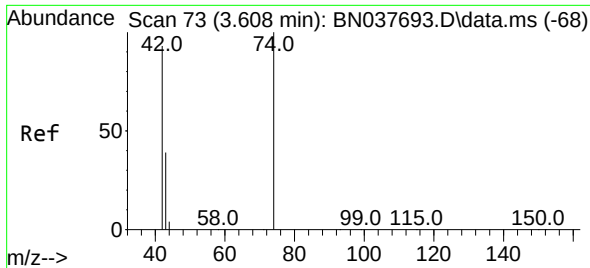
Tgt Ion:152 Resp: 6660
Ion Ratio Lower Upper
152 100
150 149.7 124.5 186.7
115 56.1 49.2 73.8



#2
1,4-Dioxane
Concen: 0.431 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion: 88 Resp: 2988
Ion Ratio Lower Upper
88 100
43 27.6 26.8 40.2
58 71.1 61.9 92.9

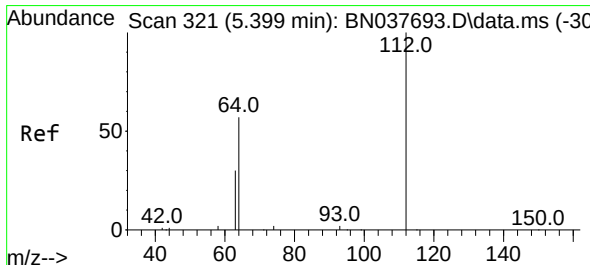
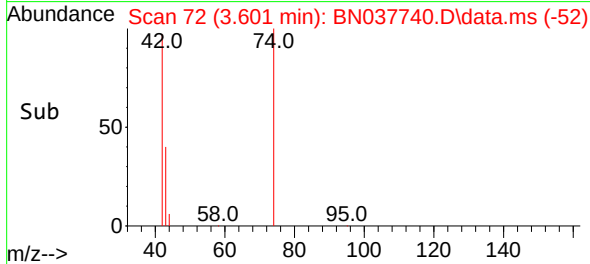
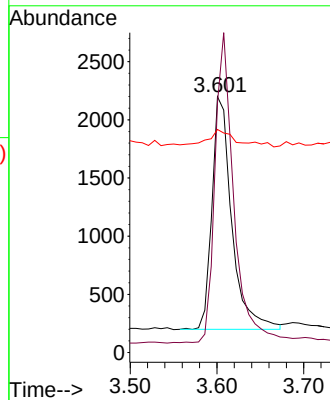
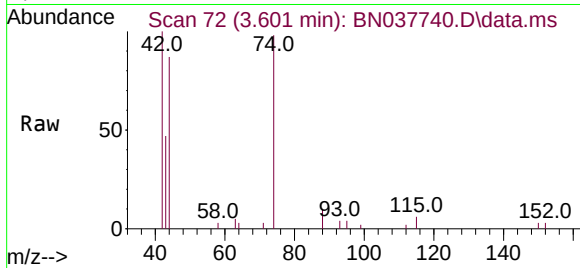




#3
n-Nitrosodimethylamine
Concen: 0.352 ng
RT: 3.601 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

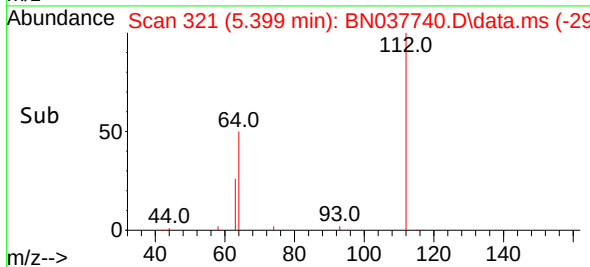
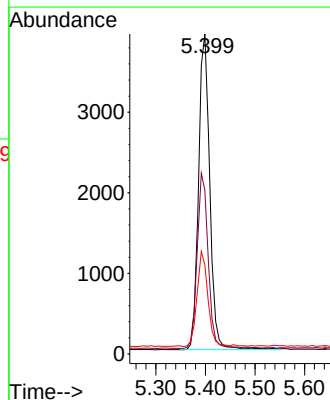
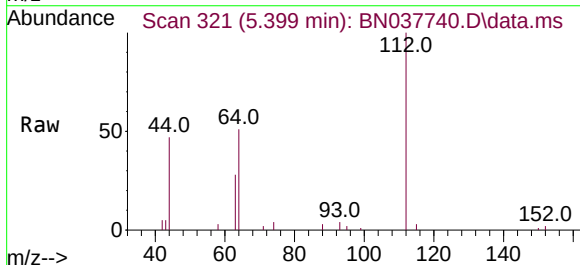
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

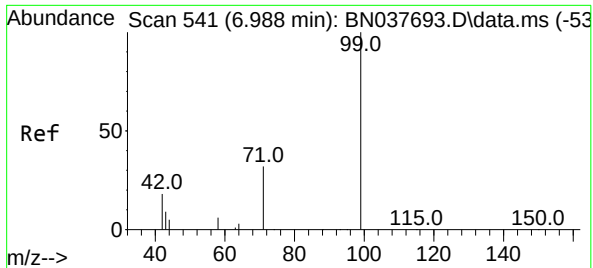
Tgt Ion: 42 Resp: 3189
Ion Ratio Lower Upper
42 100
74 127.7 86.0 129.0
44 8.5 8.4 12.6



#4
2-Fluorophenol
Concen: 0.403 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion: 112 Resp: 6167
Ion Ratio Lower Upper
112 100
64 54.3 44.9 67.3
63 28.9 24.7 37.1

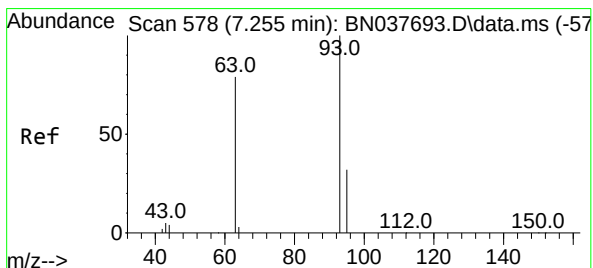
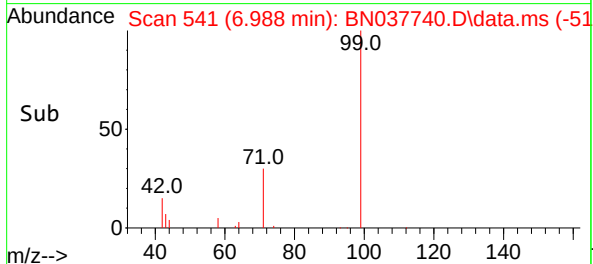
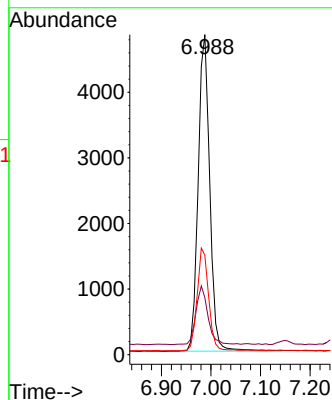
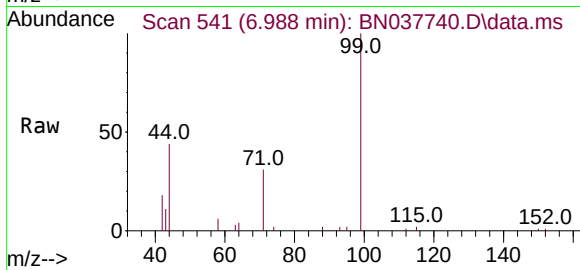




#5
Phenol-d6
Concen: 0.395 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

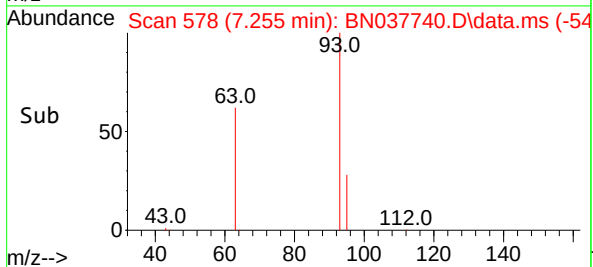
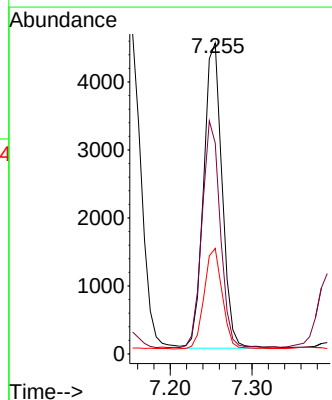
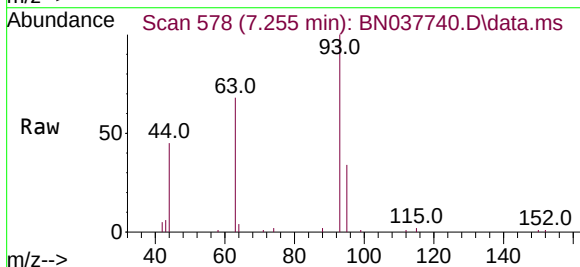
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

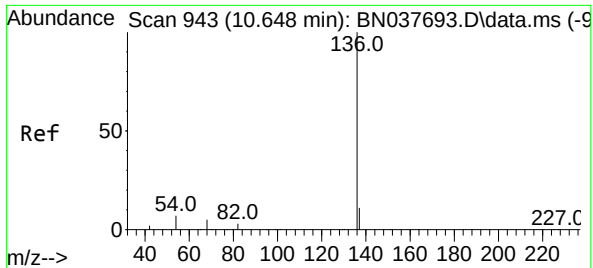
Tgt Ion: 99 Resp: 7831
Ion Ratio Lower Upper
99 100
42 19.1 16.6 24.8
71 32.2 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.397 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion: 93 Resp: 7035
Ion Ratio Lower Upper
93 100
63 73.0 60.6 90.8
95 32.6 26.0 39.0

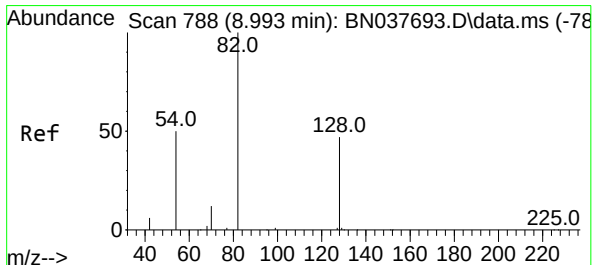
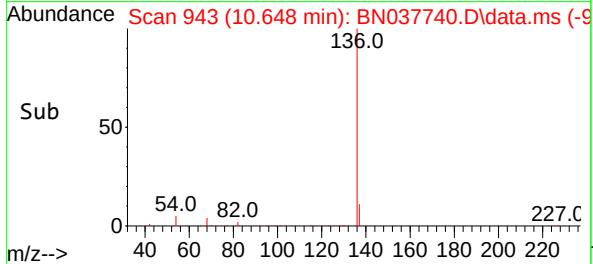
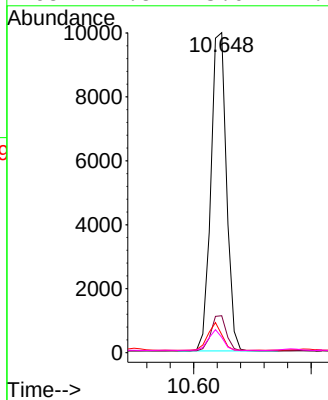
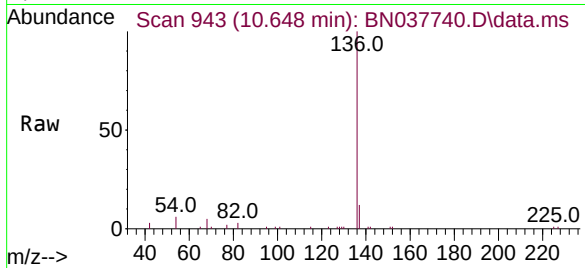




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

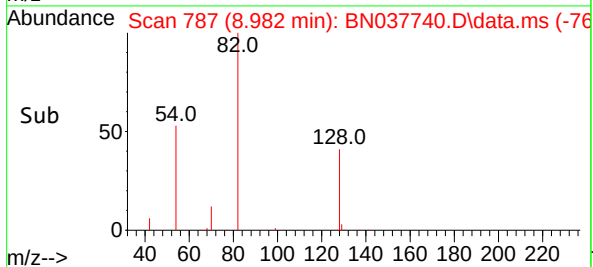
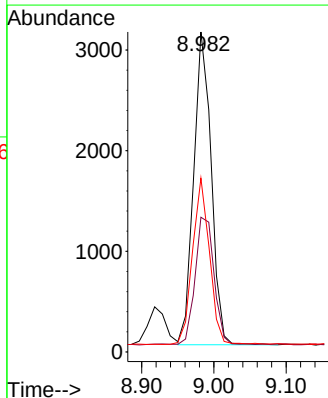
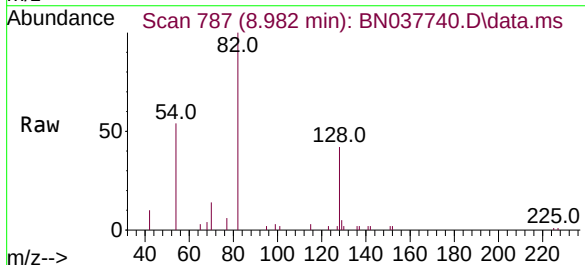
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

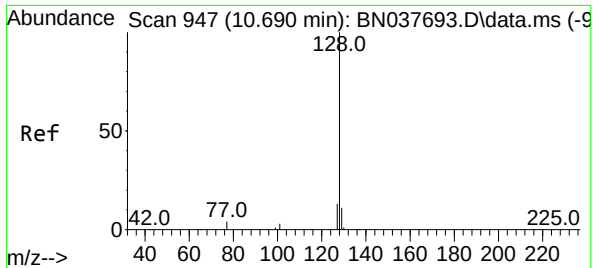
Tgt Ion:	136	Resp:	18396
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	5.6	6.3	9.5#
68	4.8	5.0	7.4#



#8
Nitrobenzene-d5
Concen: 0.388 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion:	82	Resp:	5219
Ion	Ratio	Lower	Upper
82	100		
128	42.1	38.3	57.5
54	54.3	41.4	62.2

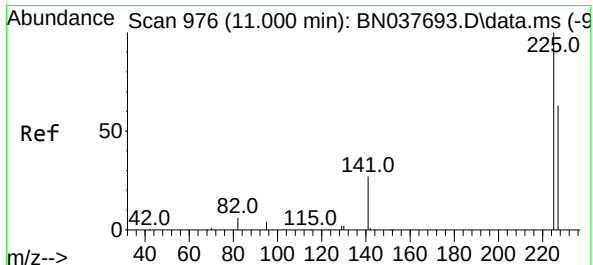
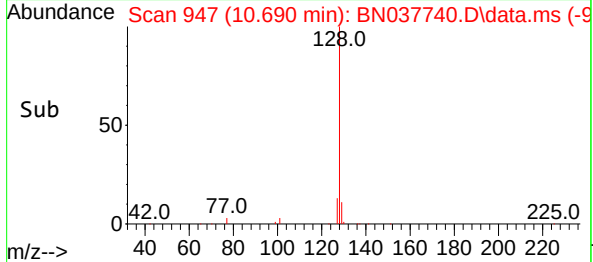
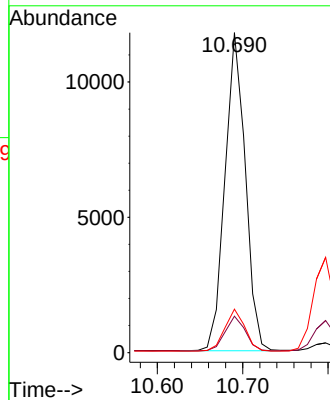
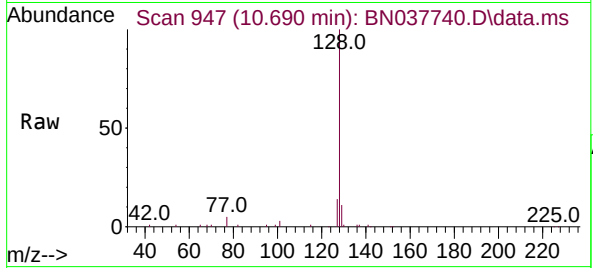




#9
Naphthalene
Concen: 0.389 ng
RT: 10.690 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

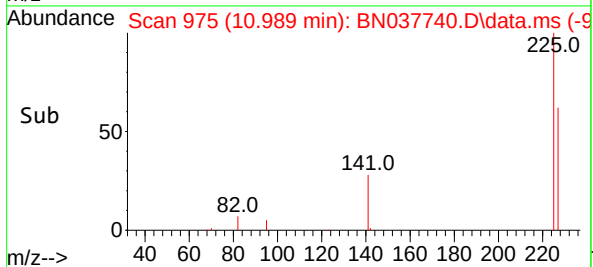
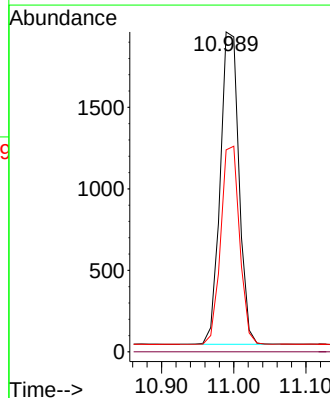
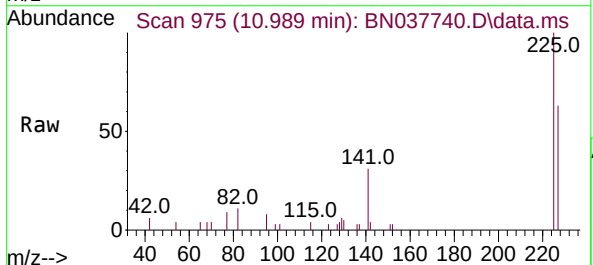
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

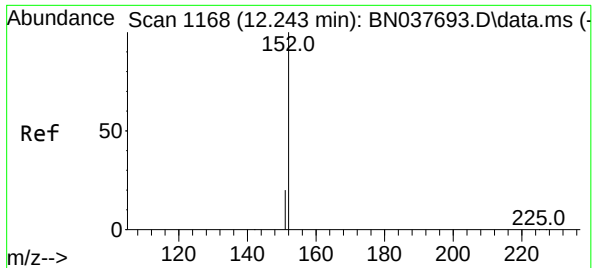
Tgt Ion:	128	Resp:	19558
Ion Ratio	Lower	Upper	
128	100		
129	11.4	9.1	13.7
127	13.6	10.9	16.3



#10
Hexachlorobutadiene
Concen: 0.380 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion:	225	Resp:	3461
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	64.1	50.9	76.3

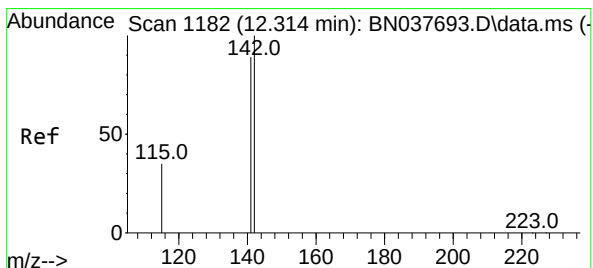
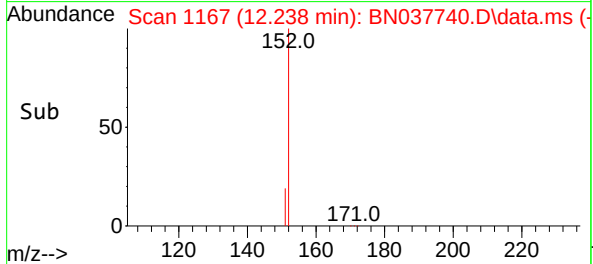
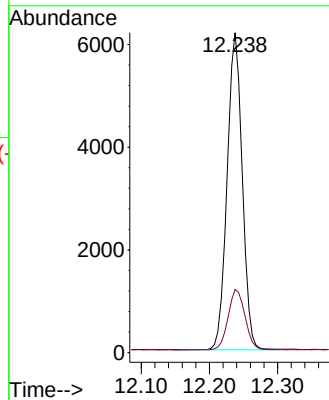
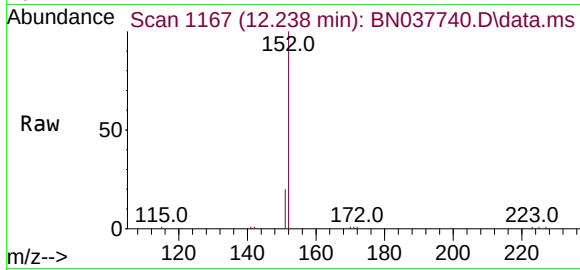




#11
2-Methylnaphthalene-d10
Concen: 0.391 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

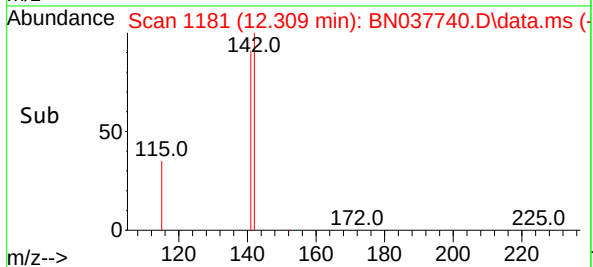
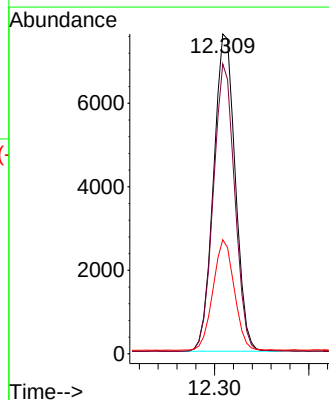
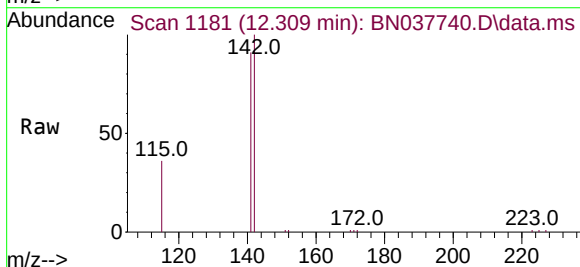
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

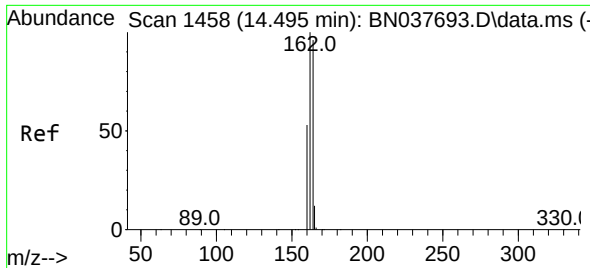
Tgt Ion:152 Resp: 9519
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.391 ng
RT: 12.309 min Scan# 1181
Delta R.T. -0.005 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion:142 Resp: 12157
Ion Ratio Lower Upper
142 100
141 90.6 71.6 107.4
115 35.7 28.6 43.0

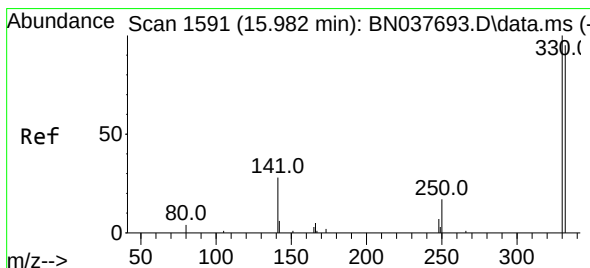
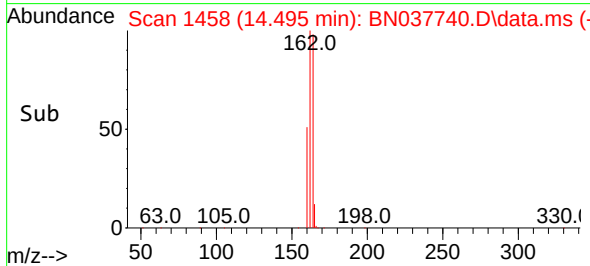
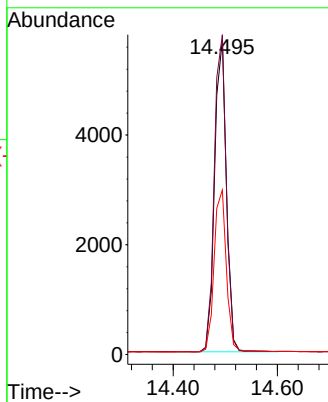
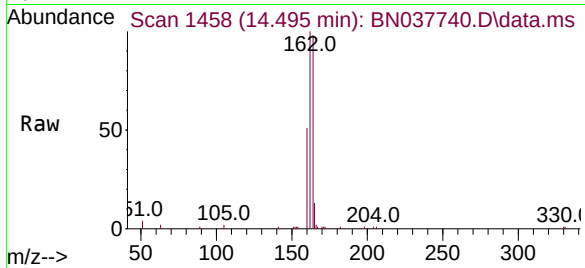




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

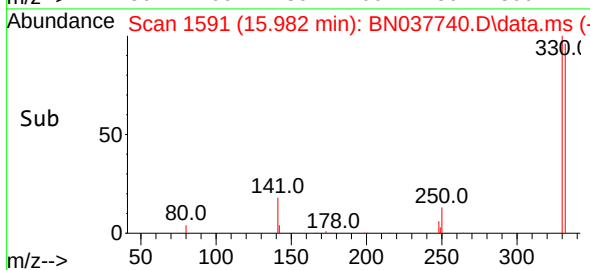
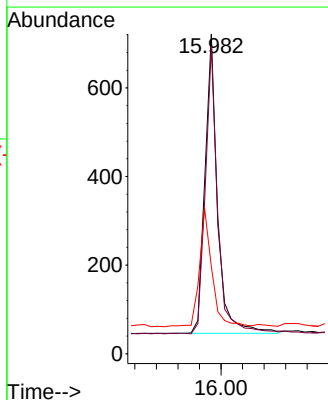
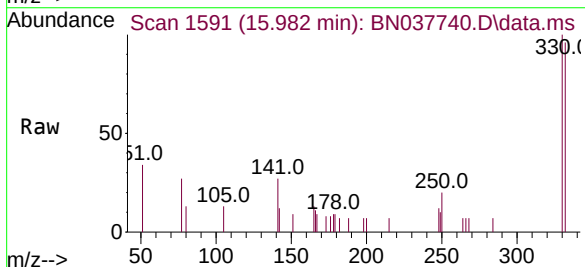
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

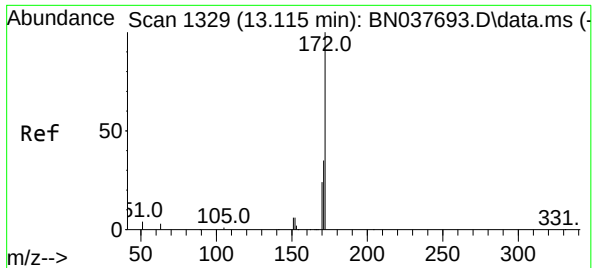
Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.8	83.1	124.7
160	52.3	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.470 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.0	75.3	112.9
141	39.1	35.0	52.4

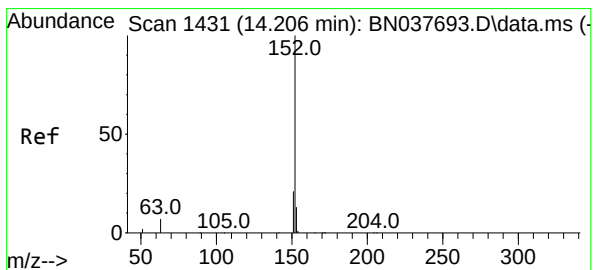
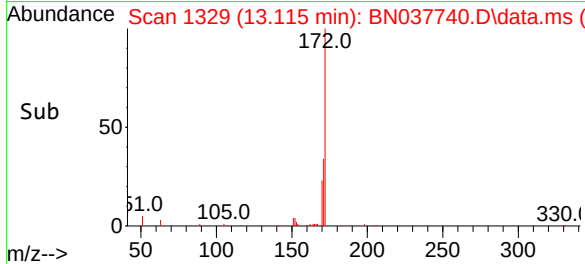
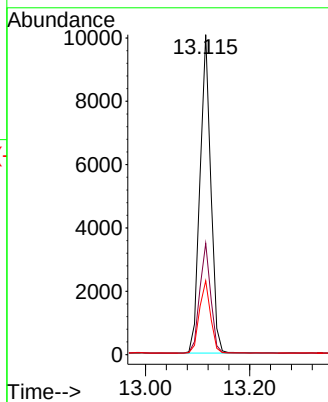
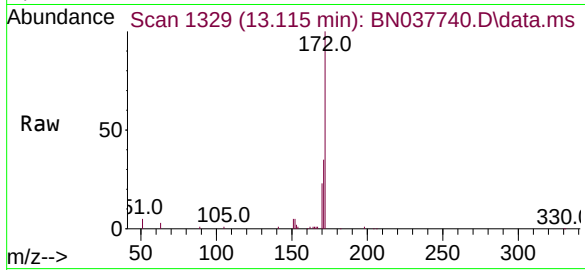




#15
2-Fluorobiphenyl
Concen: 0.387 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

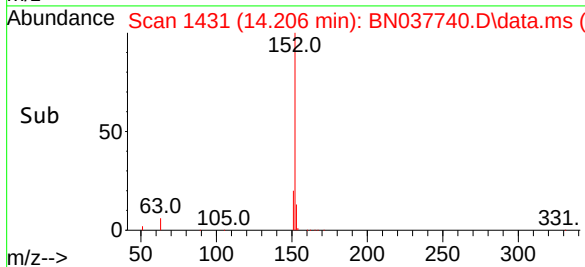
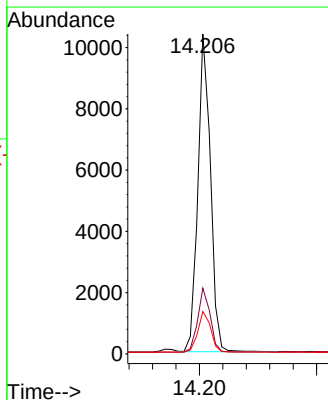
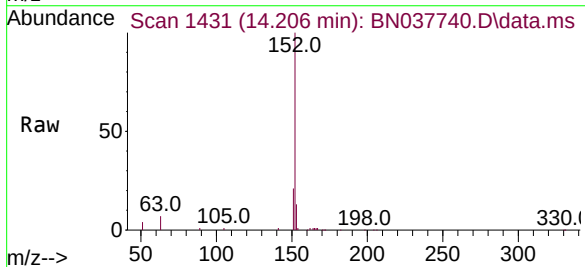
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

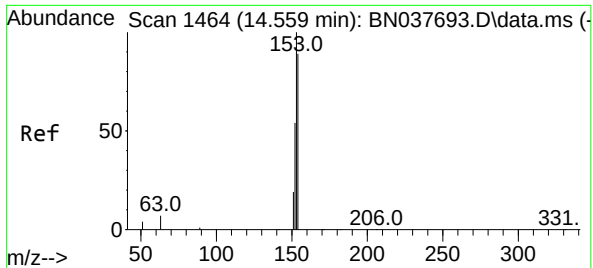
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.8	28.6	43.0
170	23.1	19.8	29.8



#16
Acenaphthylene
Concen: 0.375 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	12.9	10.4	15.6

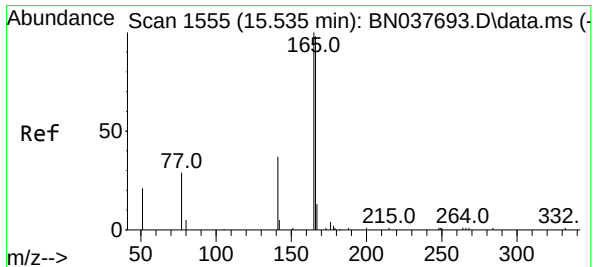
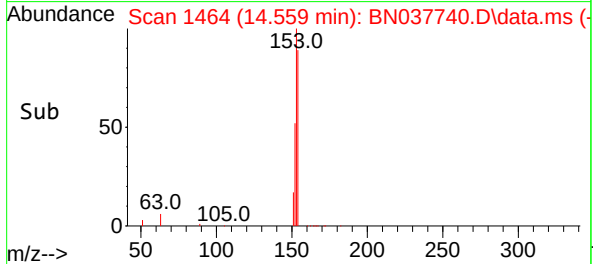
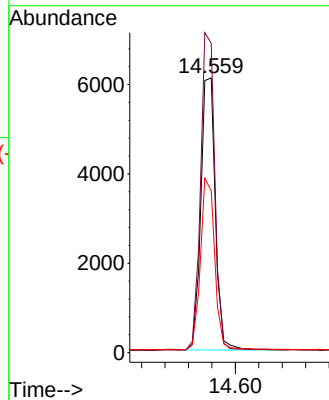
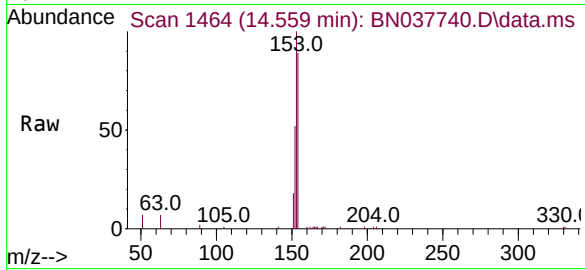




#17
Acenaphthene
Concen: 0.375 ng
RT: 14.559 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

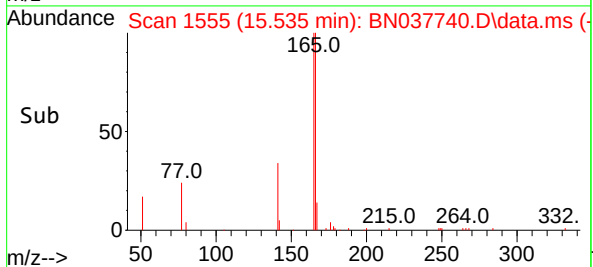
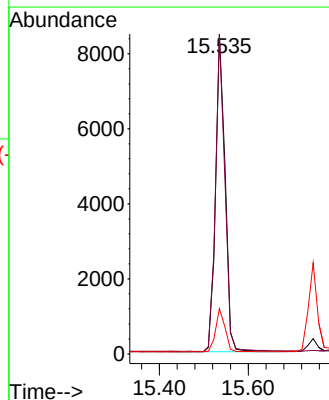
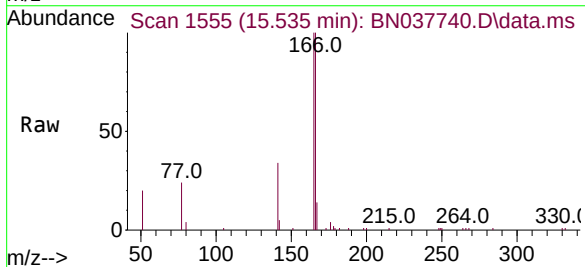
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

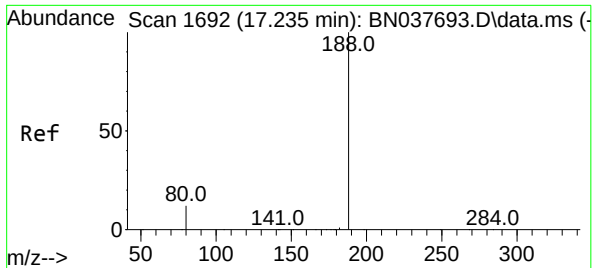
Tgt Ion:154 Resp: 10379
Ion Ratio Lower Upper
154 100
153 114.4 89.8 134.8
152 62.3 50.2 75.2



#18
Fluorene
Concen: 0.358 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion:166 Resp: 12010
Ion Ratio Lower Upper
166 100
165 100.0 79.6 119.4
167 13.8 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037740.D

Acq: 17 Sep 2025 11:25

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

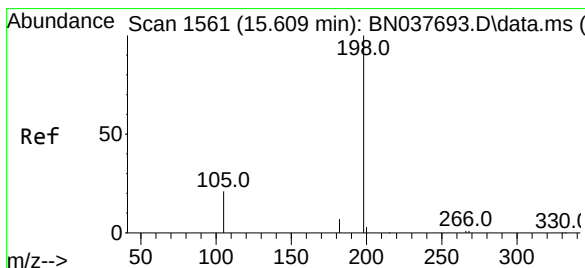
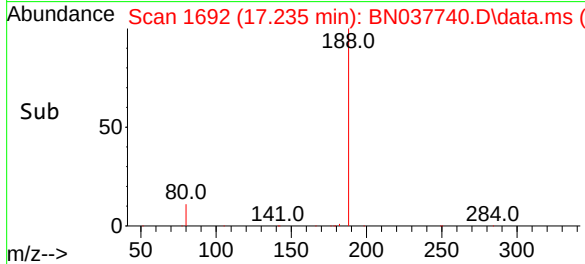
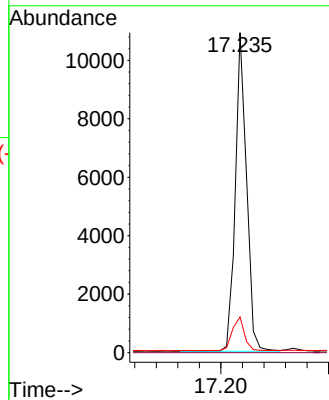
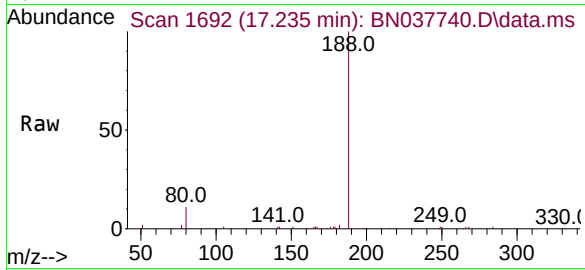
Tgt Ion:188 Resp: 15814

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.1 10.6 15.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.350 ng

RT: 15.609 min Scan# 1561

Delta R.T. 0.000 min

Lab File: BN037740.D

Acq: 17 Sep 2025 11:25

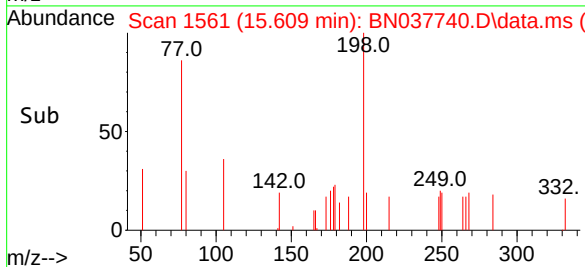
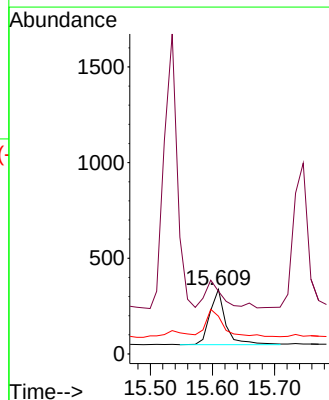
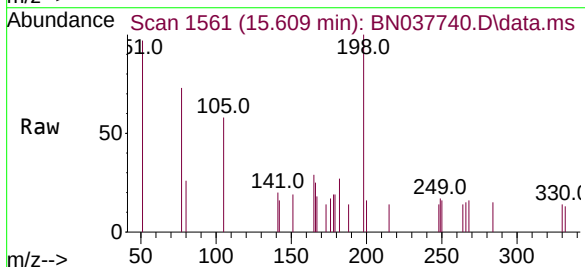
Tgt Ion:198 Resp: 512

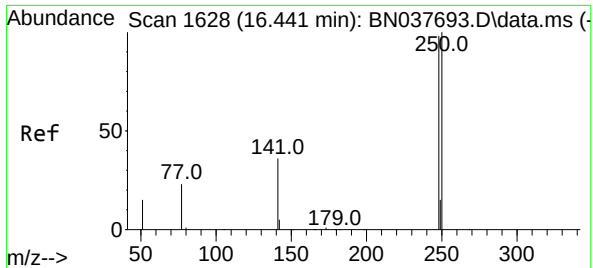
Ion Ratio Lower Upper

198 100

51 97.0 95.1 142.7

105 58.3 53.8 80.6

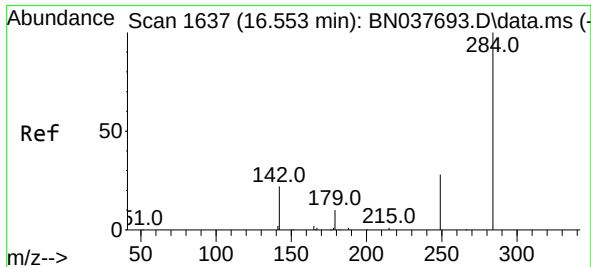
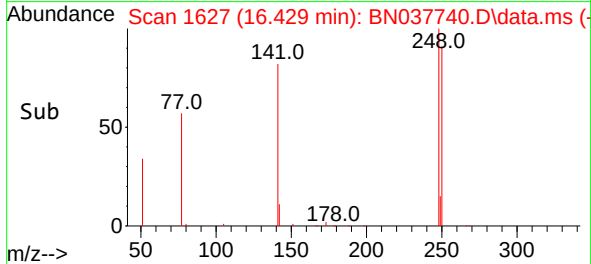
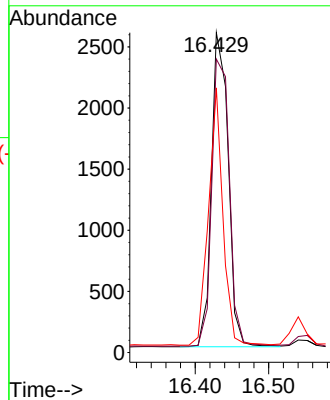
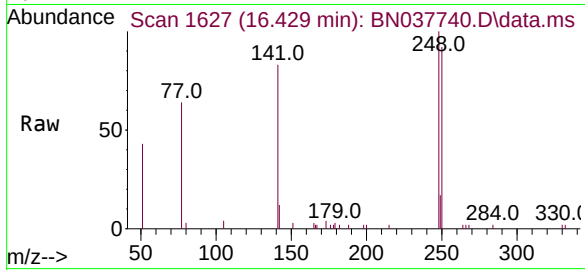




#21
4-Bromophenyl-phenylether
Concen: 0.395 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.012 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

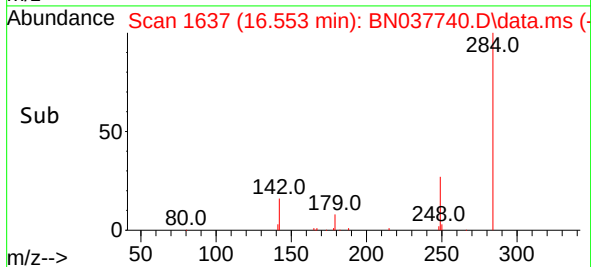
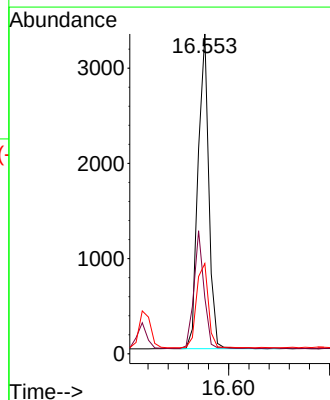
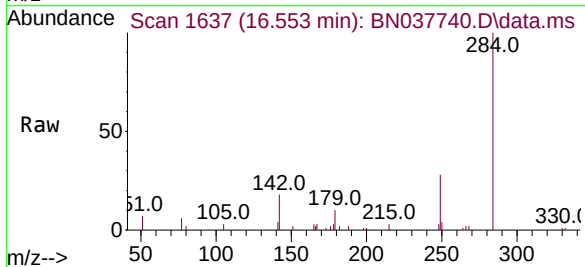
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

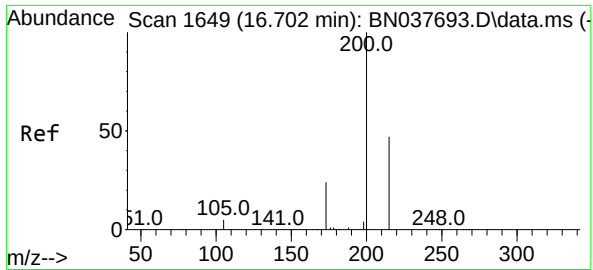
Tgt Ion:248 Resp: 4071
Ion Ratio Lower Upper
248 100
250 91.7 81.5 122.3
141 82.7 30.8 46.2#



#22
Hexachlorobenzene
Concen: 0.409 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion:284 Resp: 4849
Ion Ratio Lower Upper
284 100
142 35.8 30.9 46.3
249 29.7 24.8 37.2





#23

Atrazine

Concen: 0.371 ng

RT: 16.702 min Scan# 1649

Delta R.T. -0.000 min

Lab File: BN037740.D

Acq: 17 Sep 2025 11:25

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

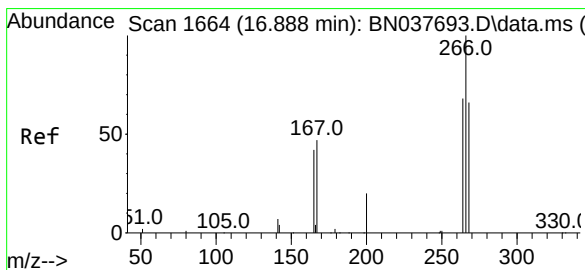
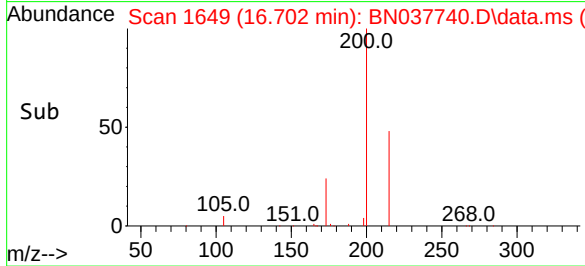
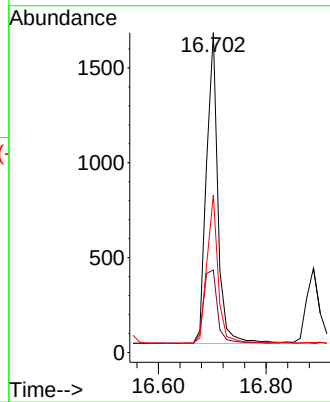
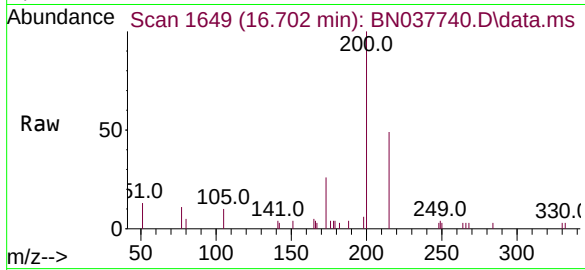
Tgt Ion:200 Resp: 2432

Ion Ratio Lower Upper

200 100

173 25.8 21.4 32.2

215 49.3 39.2 58.8



#24

Pentachlorophenol

Concen: 1.120 ng

RT: 16.888 min Scan# 1664

Delta R.T. -0.000 min

Lab File: BN037740.D

Acq: 17 Sep 2025 11:25

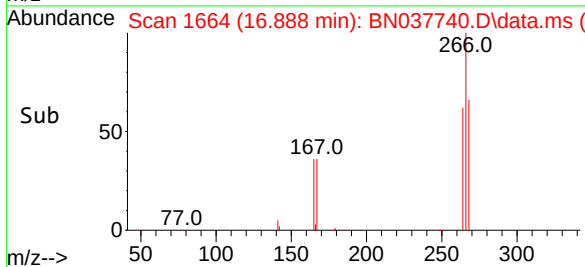
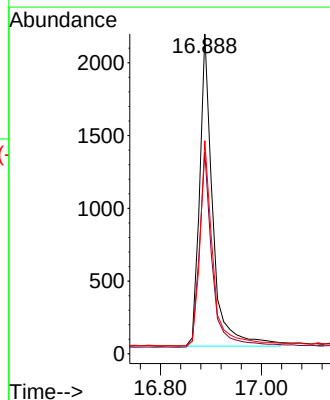
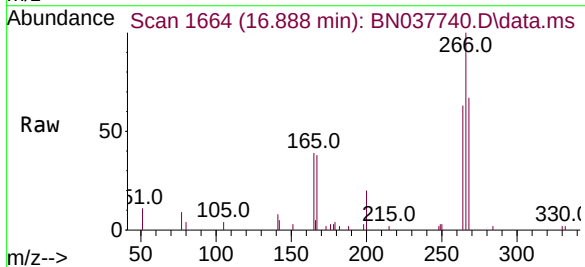
Tgt Ion:266 Resp: 3857

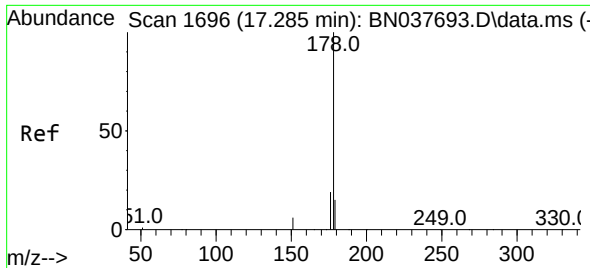
Ion Ratio Lower Upper

266 100

264 62.0 51.6 77.4

268 64.9 53.2 79.8

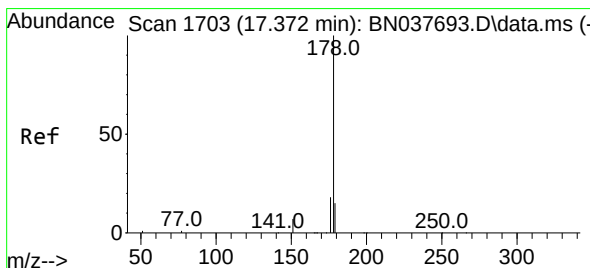
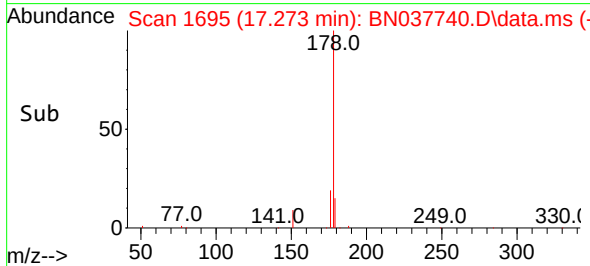
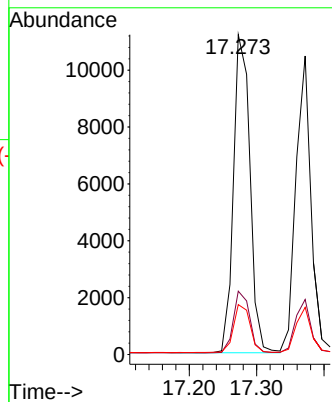
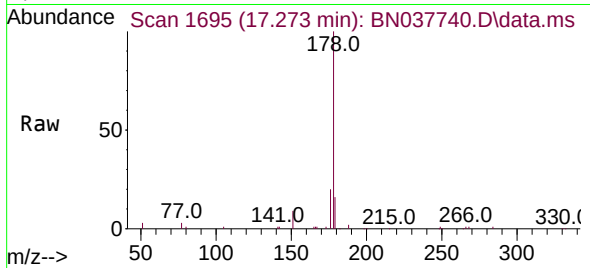




#25
Phenanthrene
Concen: 0.383 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.012 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

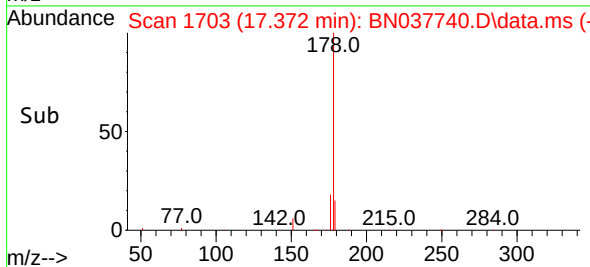
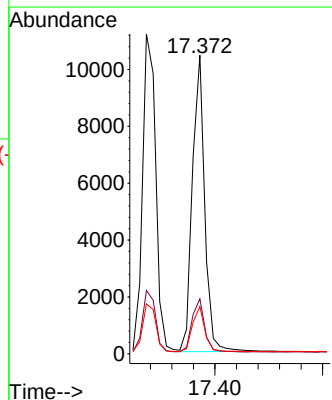
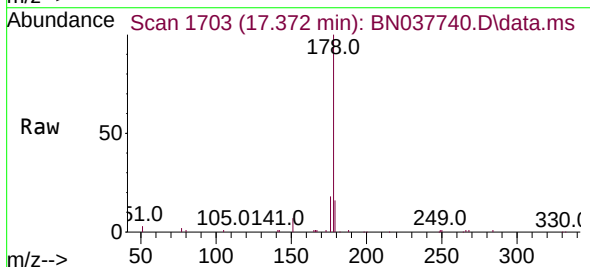
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

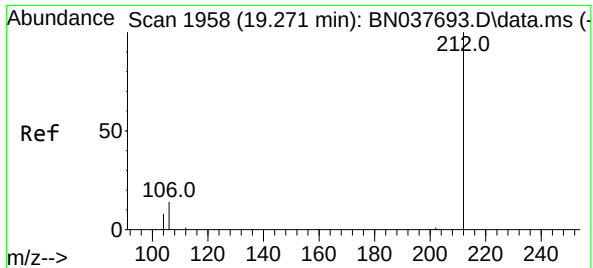
Tgt Ion:178 Resp: 19056
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.3 12.2 18.2



#26
Anthracene
Concen: 0.376 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion:178 Resp: 16581
Ion Ratio Lower Upper
178 100
176 18.3 14.6 22.0
179 15.3 12.2 18.4





#27

Fluoranthene-d10

Concen: 0.373 ng

RT: 19.267 min Scan# 1957

Delta R.T. -0.005 min

Lab File: BN037740.D

Acq: 17 Sep 2025 11:25

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

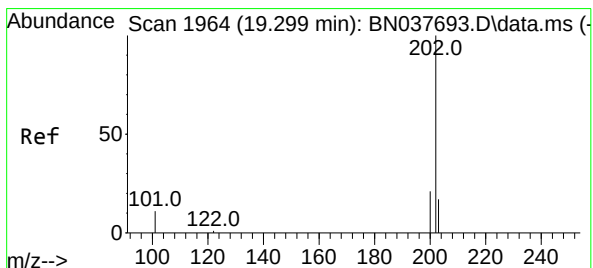
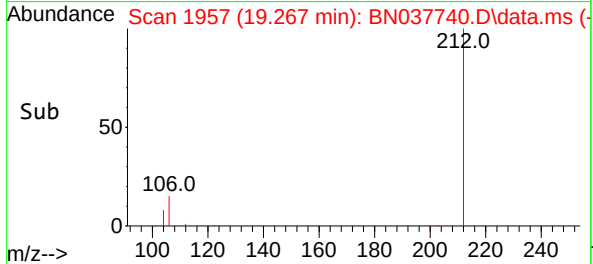
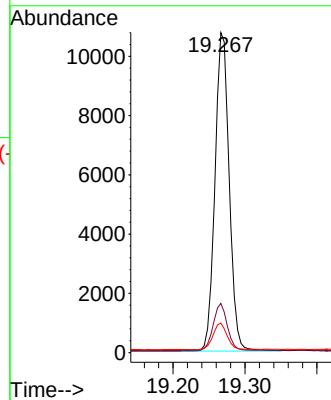
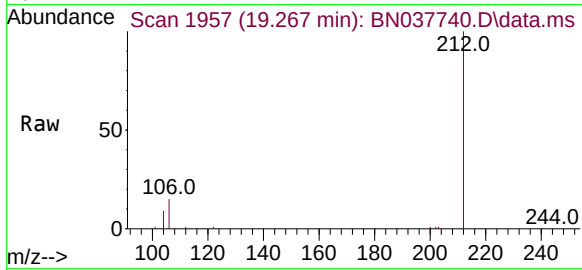
Tgt Ion:212 Resp: 14803

Ion Ratio Lower Upper

212 100

106 14.4 12.2 18.2

104 8.3 6.9 10.3



#28

Fluoranthene

Concen: 0.381 ng

RT: 19.299 min Scan# 1964

Delta R.T. -0.000 min

Lab File: BN037740.D

Acq: 17 Sep 2025 11:25

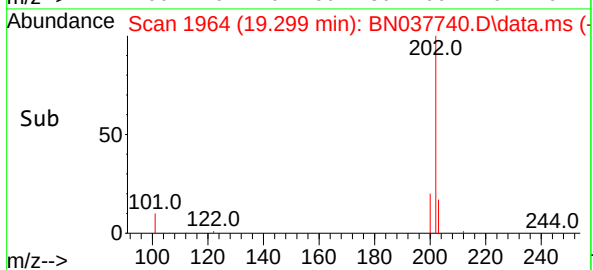
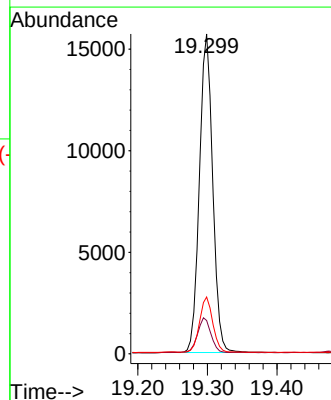
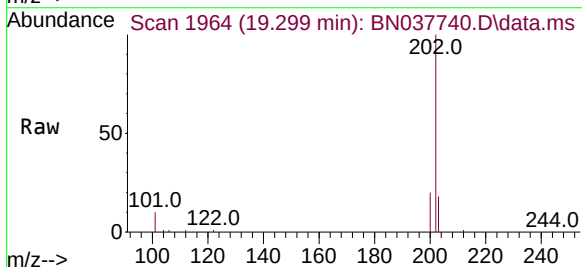
Tgt Ion:202 Resp: 20777

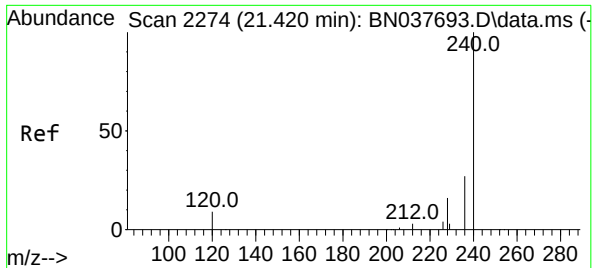
Ion Ratio Lower Upper

202 100

101 11.1 9.3 13.9

203 17.2 13.7 20.5

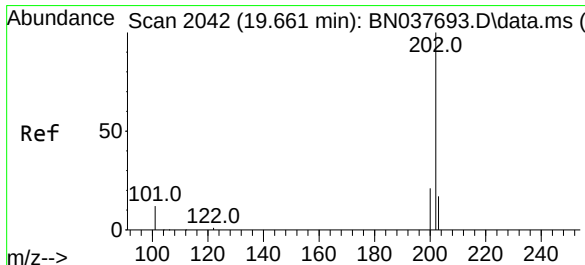
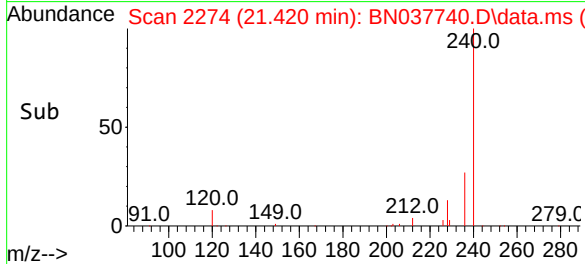
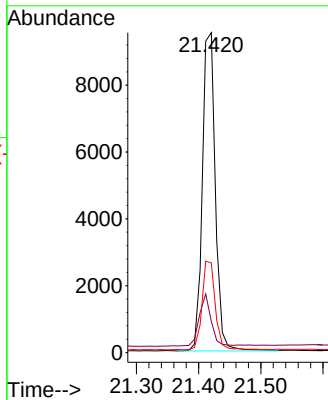
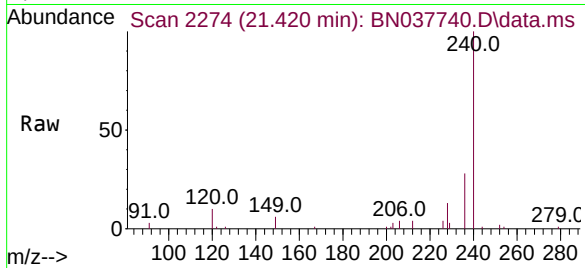




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

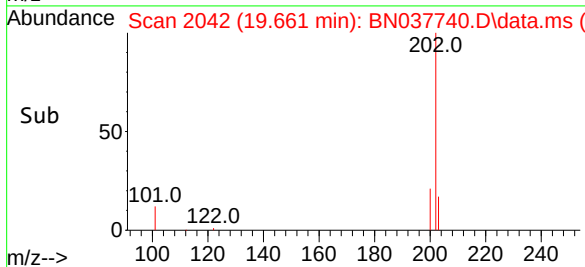
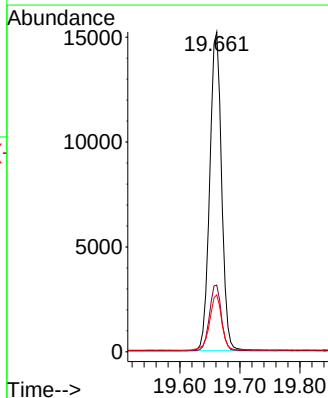
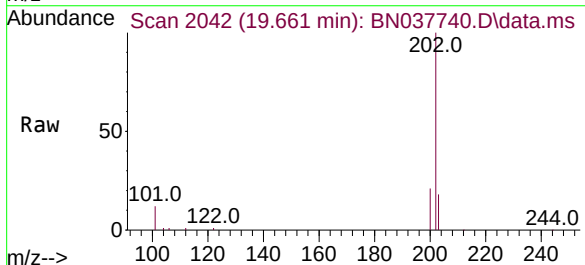
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

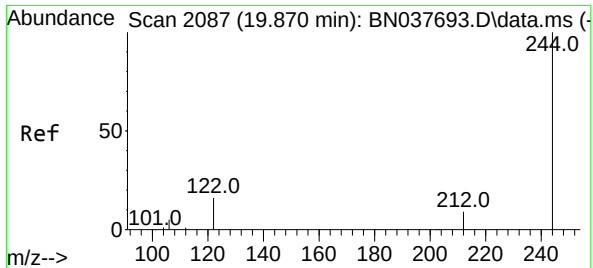
Tgt Ion	Ratio	Lower	Upper
240	100		
120	9.8	9.2	13.8
236	28.0	22.6	33.8



#30
Pyrene
Concen: 0.385 ng
RT: 19.661 min Scan# 2042
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.8	25.2
203	17.8	14.3	21.5

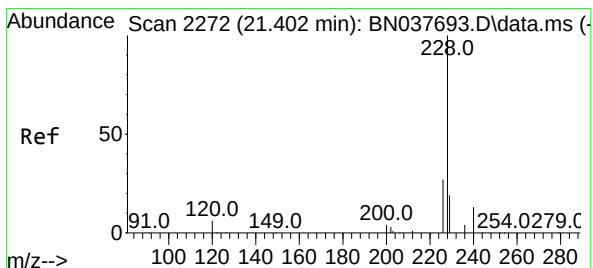
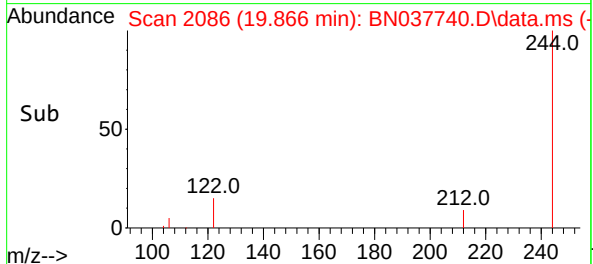
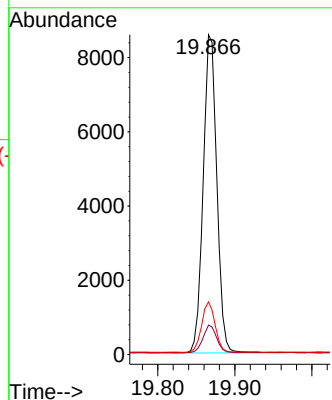
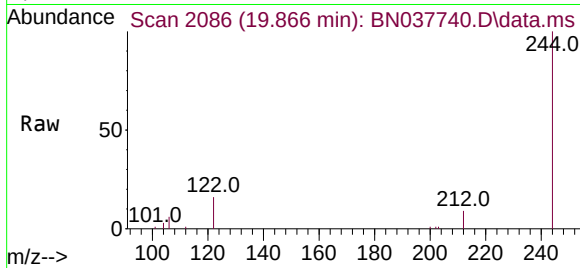




#31
Terphenyl-d14
Concen: 0.373 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

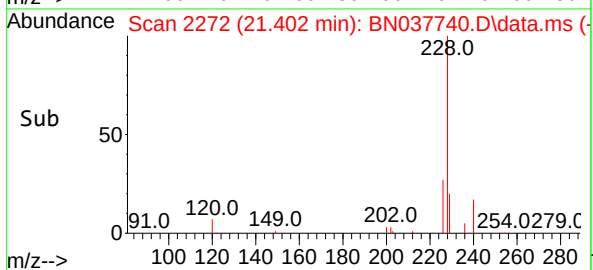
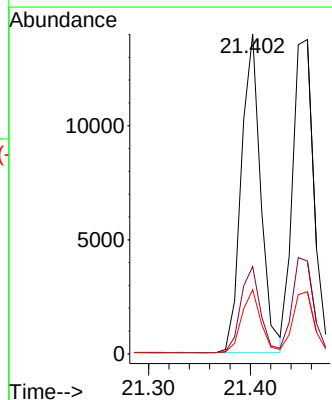
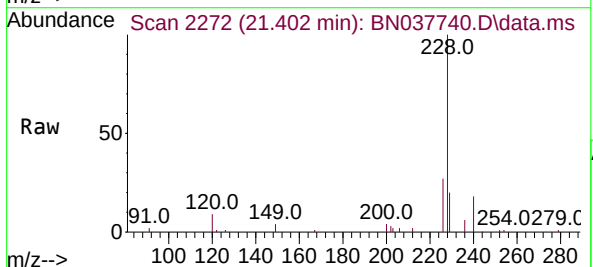
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

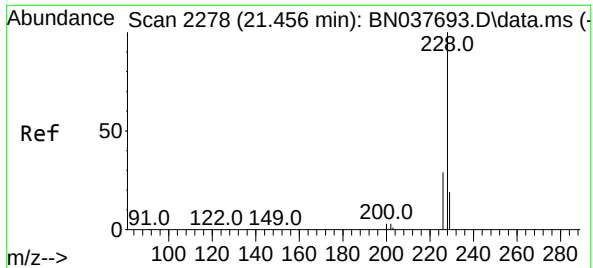
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.2	7.5	11.3
122	16.5	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.386 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.3	22.2	33.2
229	20.1	15.8	23.6





#33

Chrysene

Concen: 0.390 ng

RT: 21.456 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037740.D

Acq: 17 Sep 2025 11:25

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

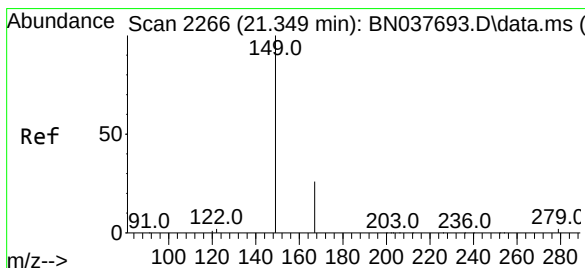
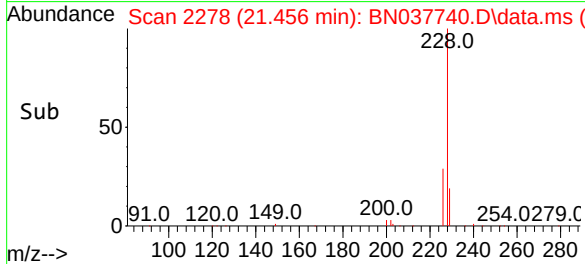
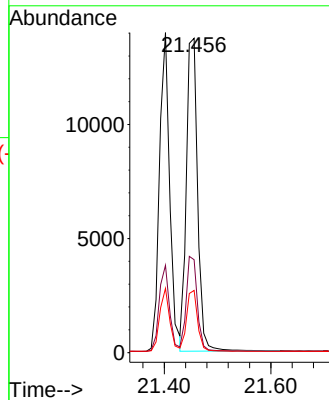
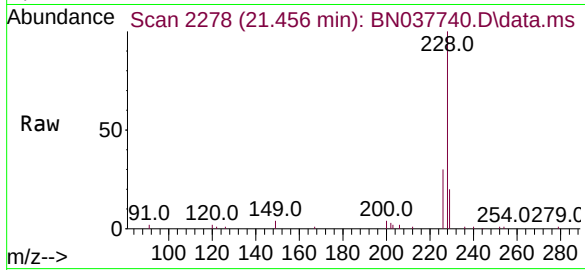
Tgt Ion:228 Resp: 20188

Ion Ratio Lower Upper

228 100

226 29.5 23.5 35.3

229 19.8 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.425 ng

RT: 21.349 min Scan# 2266

Delta R.T. -0.000 min

Lab File: BN037740.D

Acq: 17 Sep 2025 11:25

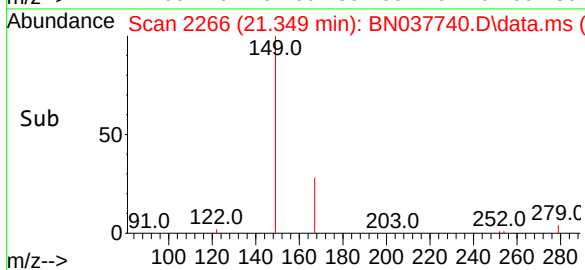
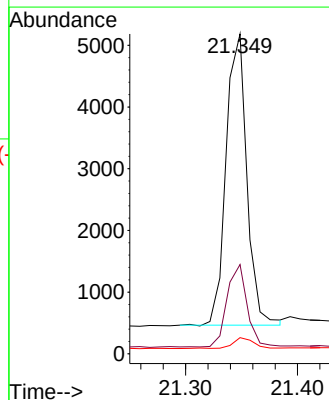
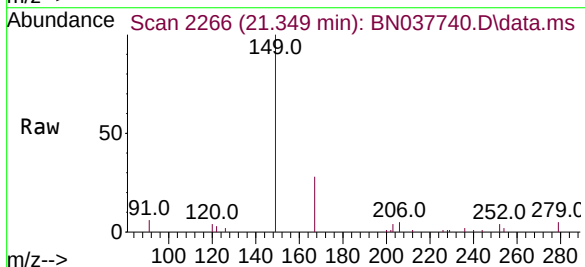
Tgt Ion:149 Resp: 6080

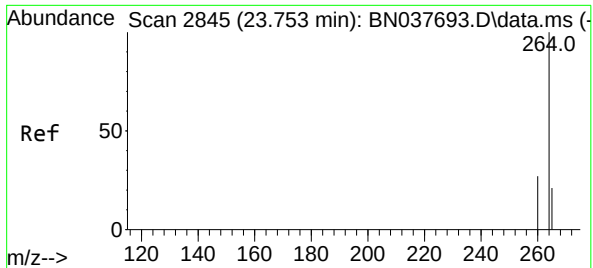
Ion Ratio Lower Upper

149 100

167 27.5 20.8 31.2

279 3.8 3.3 4.9

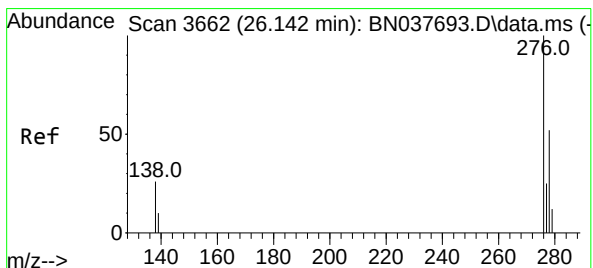
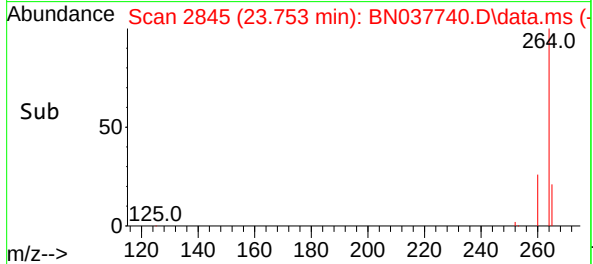
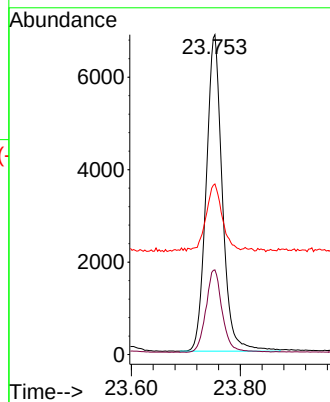
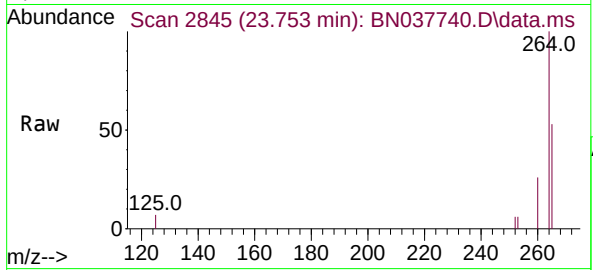




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.753 min Scan# 2845
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

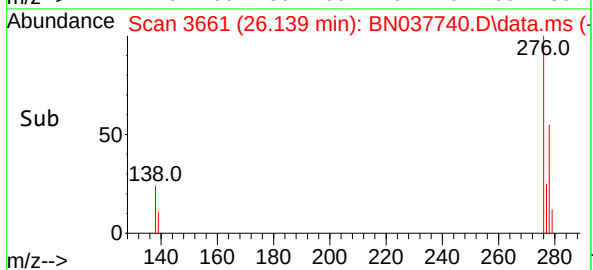
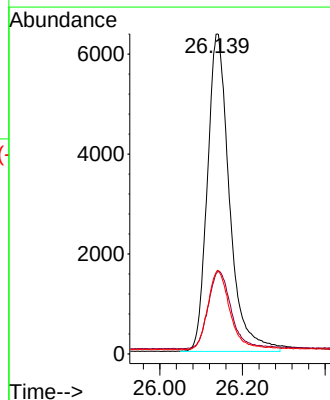
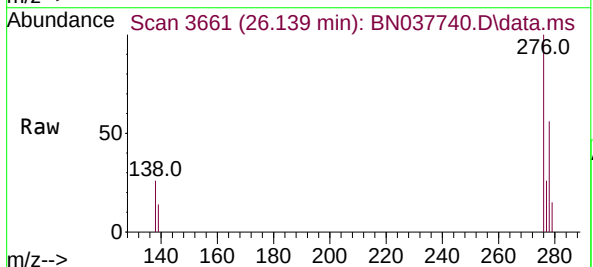
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

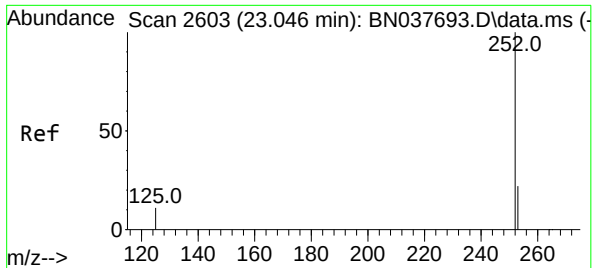
Tgt Ion	264	260	265
Resp:	14132		
Ion Ratio	100	26.5	53.3
Lower		21.8	39.4
Upper		32.8	59.2



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.397 ng
RT: 26.139 min Scan# 3661
Delta R.T. -0.003 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion	276	138	277
Resp:	23556		
Ion Ratio	100	25.6	25.0
Lower		21.9	20.1
Upper		32.9	30.1





#37

Benzo(b)fluoranthene

Concen: 0.385 ng

RT: 23.046 min Scan# 2603

Delta R.T. -0.000 min

Lab File: BN037740.D

Acq: 17 Sep 2025 11:25

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

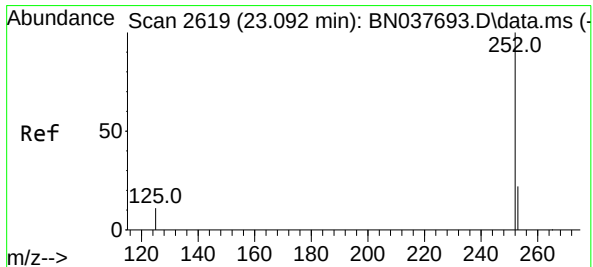
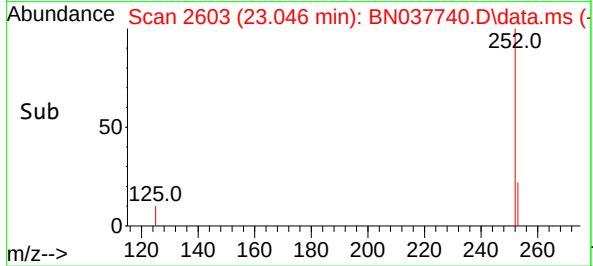
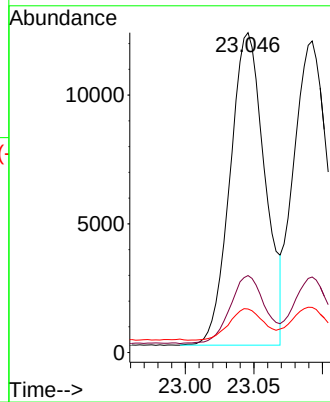
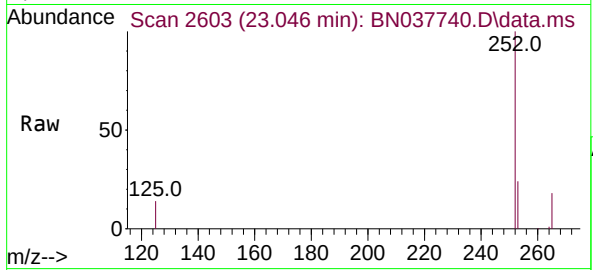
Tgt Ion:252 Resp: 21437

Ion Ratio Lower Upper

252 100

253 24.1 19.4 29.2

125 13.6 11.2 16.8



#38

Benzo(k)fluoranthene

Concen: 0.382 ng

RT: 23.092 min Scan# 2619

Delta R.T. -0.000 min

Lab File: BN037740.D

Acq: 17 Sep 2025 11:25

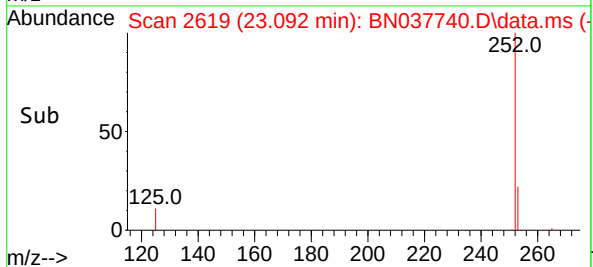
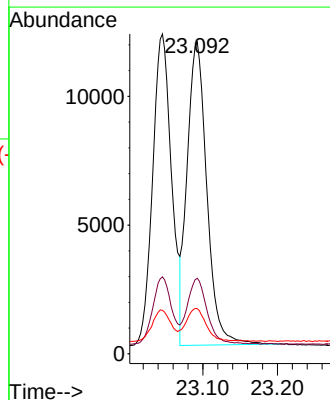
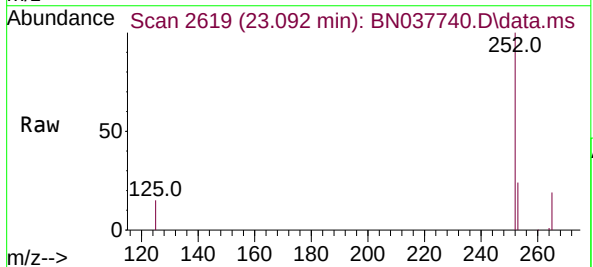
Tgt Ion:252 Resp: 21654

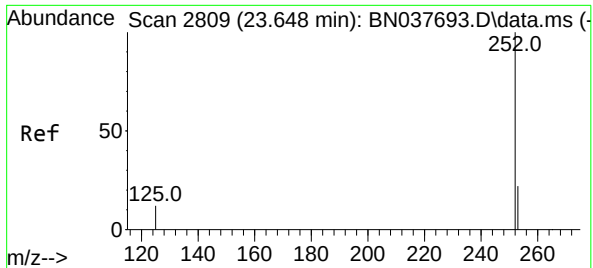
Ion Ratio Lower Upper

252 100

253 24.3 19.4 29.0

125 14.5 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.390 ng

RT: 23.648 min Scan# 2809

Delta R.T. -0.000 min

Lab File: BN037740.D

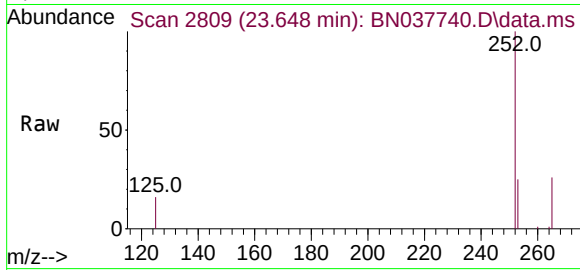
Acq: 17 Sep 2025 11:25

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



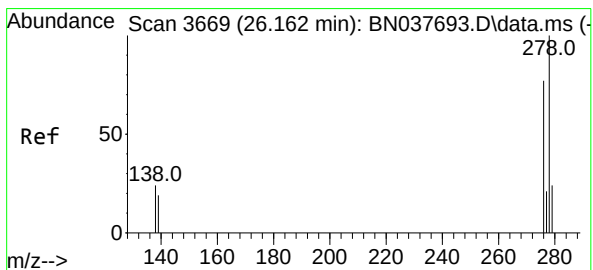
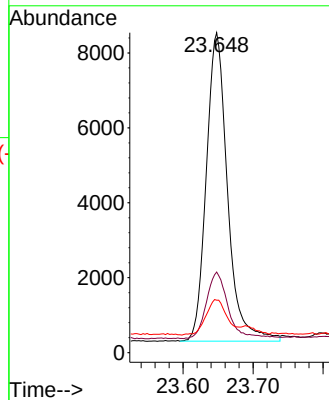
Tgt Ion:252 Resp: 17359

Ion	Ratio	Lower	Upper

252	100		

253	25.2	20.8	31.2

125	16.4	13.9	20.9



#40

Dibenzo(a,h)anthracene

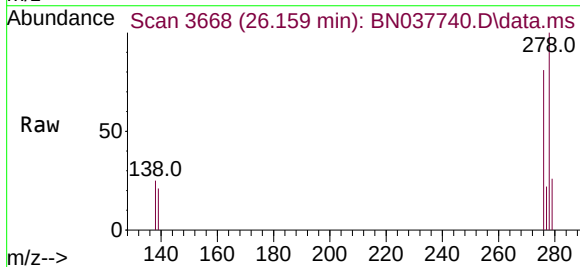
Concen: 0.395 ng

RT: 26.159 min Scan# 3668

Delta R.T. -0.003 min

Lab File: BN037740.D

Acq: 17 Sep 2025 11:25



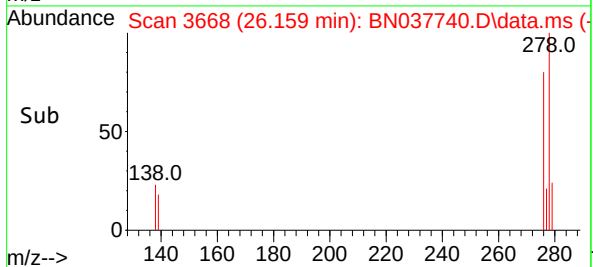
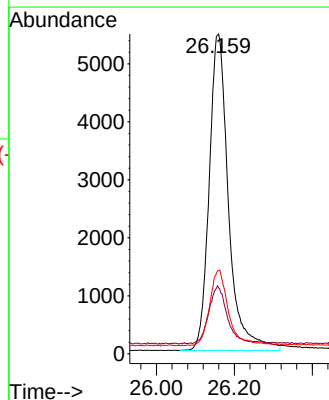
Tgt Ion:278 Resp: 18747

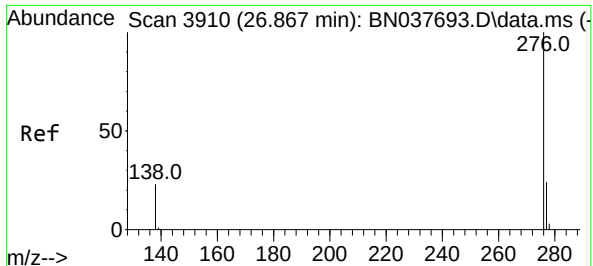
Ion	Ratio	Lower	Upper

278	100		

139	20.6	17.8	26.6

279	26.0	22.0	33.0





#41

Benzo(g,h,i)perylene

Concen: 0.396 ng

RT: 26.864 min Scan# 3910

Delta R.T. -0.003 min

Lab File: BN037740.D

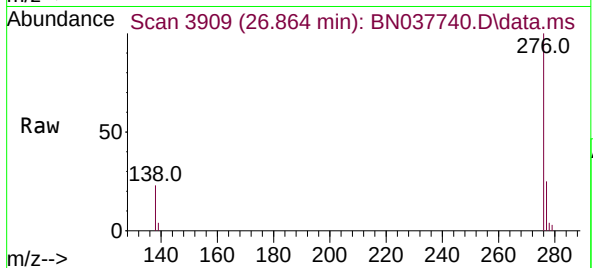
Acq: 17 Sep 2025 11:25

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



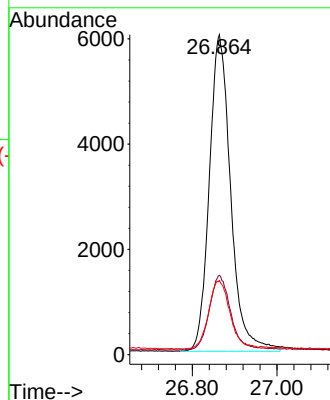
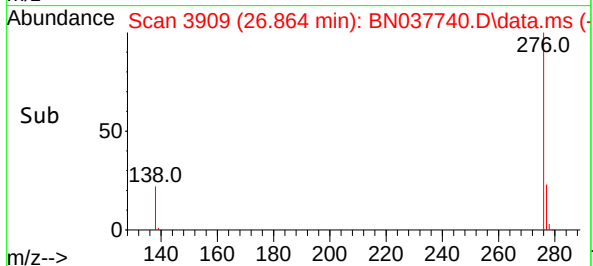
Tgt Ion:276 Resp: 21072

Ion Ratio Lower Upper

276 100

277 24.8 20.6 31.0

138 23.2 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
 Data File : BN037740.D
 Acq On : 17 Sep 2025 11:25
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 17 12:51:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	133	0.00
2	1,4-Dioxane	0.417	0.449	-7.7	142	0.00
3	n-Nitrosodimethylamine	0.544	0.479	11.9	113	0.00
4 S	2-Fluorophenol	0.918	0.926	-0.9	139	0.00
5 S	Phenol-d6	1.191	1.176	1.3	136	0.00
6	bis(2-Chloroethyl)ether	1.064	1.056	0.8	132	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	139	0.00
8 S	Nitrobenzene-d5	0.293	0.284	3.1	138	-0.01
9	Naphthalene	1.093	1.063	2.7	137	0.00
10	Hexachlorobutadiene	0.198	0.188	5.1	132	-0.01
11 SURR	2-Methylnaphthalene-d10	0.530	0.517	2.5	144	0.00
12	2-Methylnaphthalene	0.676	0.661	2.2	139	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	144	0.00
14 S	2,4,6-Tribromophenol	0.104	0.123	-18.3	175#	0.00
15 S	2-Fluorobiphenyl	1.673	1.620	3.2	141	0.00
16	Acenaphthylene	1.834	1.719	6.3	139	0.00
17	Acenaphthene	1.240	1.162	6.3	138	0.00
18	Fluorene	1.502	1.345	10.5	134	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	140	0.00
20	4,6-Dinitro-2-methylphenol	0.037	0.032	13.5	138	0.00
21	4-Bromophenyl-phenylether	0.261	0.257	1.5	144	-0.01
22	Hexachlorobenzene	0.300	0.307	-2.3	146	0.00
23	Atrazine	0.166	0.154	7.2	142	0.00
24	Pentachlorophenol	0.087	0.244	-180.5#	460#	0.00
25	Phenanthrene	1.259	1.205	4.3	138	-0.01
26	Anthracene	1.116	1.049	6.0	138	0.00
27 SURR	Fluoranthene-d10	1.004	0.936	6.8	141	0.00
28	Fluoranthene	1.381	1.314	4.9	141	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	148	0.00
30	Pyrene	1.566	1.508	3.7	143	0.00
31 S	Terphenyl-d14	0.812	0.757	6.8	140	0.00
32	Benzo(a)anthracene	1.395	1.345	3.6	147	0.00
33	Chrysene	1.496	1.459	2.5	144	0.00
34	Bis(2-ethylhexyl)phthalate	0.414	0.439	-6.0	173#	0.00
35 I	Perylene-d12	1.000	1.000	0.0	158#	0.00
36	Indeno(1,2,3-cd)pyrene	1.681	1.667	0.8	170#	0.00
37	Benzo(b)fluoranthene	1.575	1.517	3.7	154#	0.00
38	Benzo(k)fluoranthene	1.606	1.532	4.6	159#	0.00
39 C	Benzo(a)pyrene	1.261	1.228	2.6	161#	0.00
40	Dibenzo(a,h)anthracene	1.342	1.327	1.1	173#	0.00
41	Benzo(g,h,i)perylene	1.506	1.491	1.0	162#	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
 Data File : BN037740.D
 Acq On : 17 Sep 2025 11:25
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 17 12:51:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	133	0.00
2	1,4-Dioxane	0.400	0.431	-7.7	142	0.00
3	n-Nitrosodimethylamine	0.400	0.352	12.0	113	0.00
4 S	2-Fluorophenol	0.400	0.403	-0.8	139	0.00
5 S	Phenol-d6	0.400	0.395	1.3	136	0.00
6	bis(2-Chloroethyl)ether	0.400	0.397	0.8	132	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	139	0.00
8 S	Nitrobenzene-d5	0.400	0.388	3.0	138	-0.01
9	Naphthalene	0.400	0.389	2.8	137	0.00
10	Hexachlorobutadiene	0.400	0.380	5.0	132	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.391	2.3	144	0.00
12	2-Methylnaphthalene	0.400	0.391	2.3	139	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	144	0.00
14 S	2,4,6-Tribromophenol	0.400	0.470	-17.5	175	0.00
15 S	2-Fluorobiphenyl	0.400	0.387	3.3	141	0.00
16	Acenaphthylene	0.400	0.375	6.3	139	0.00
17	Acenaphthene	0.400	0.375	6.3	138	0.00
18	Fluorene	0.400	0.358	10.5	134	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	140	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.350	12.5	138	0.00
21	4-Bromophenyl-phenylether	0.400	0.395	1.3	144	-0.01
22	Hexachlorobenzene	0.400	0.409	-2.2	146	0.00
23	Atrazine	0.400	0.371	7.3	142	0.00
24	Pentachlorophenol	0.400	1.120	-180.0#	460	0.00
25	Phenanthrene	0.400	0.383	4.3	138	-0.01
26	Anthracene	0.400	0.376	6.0	138	0.00
27 SURR	Fluoranthene-d10	0.400	0.373	6.8	141	0.00
28	Fluoranthene	0.400	0.381	4.8	141	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	148	0.00
30	Pyrene	0.400	0.385	3.8	143	0.00
31 S	Terphenyl-d14	0.400	0.373	6.8	140	0.00
32	Benzo(a)anthracene	0.400	0.386	3.5	147	0.00
33	Chrysene	0.400	0.390	2.5	144	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.425	-6.2	173	0.00
35 I	Perylene-d12	0.400	0.400	0.0	158	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.397	0.8	170	0.00
37	Benzo(b)fluoranthene	0.400	0.385	3.8	154	0.00
38	Benzo(k)fluoranthene	0.400	0.382	4.5	159	0.00
39 C	Benzo(a)pyrene	0.400	0.390	2.5	161	0.00
40	Dibenzo(a,h)anthracene	0.400	0.395	1.3	173	0.00
41	Benzo(g,h,i)perylene	0.400	0.396	1.0	162	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: AECO15
 Lab Code: ACE SDG No.: Q3095
 Instrument ID: BNA_N Calibration Date/Time: 09/17/2025 21:50
 Lab File ID: BN037757.D Init. Calib. Date(s): 09/11/2025 09/11/2025
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 09:56 13:33
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.503		-5.1	50.0
Fluoranthene-d10	1.004	0.936		-6.8	50.0
2-Fluorophenol	0.918	0.971		5.8	50.0
Phenol-d6	1.191	1.159		-2.7	50.0
Nitrobenzene-d5	0.293	0.283		-3.4	50.0
2-Fluorobiphenyl	1.673	1.646		-1.6	50.0
2,4,6-Tribromophenol	0.104	0.122		17.3	50.0
Terphenyl-d14	0.812	0.761		-6.3	50.0
1,4-Dioxane	0.417	0.432		3.6	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
 Data File : BN037757.D
 Acq On : 17 Sep 2025 21:50
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Sep 18 05:02:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

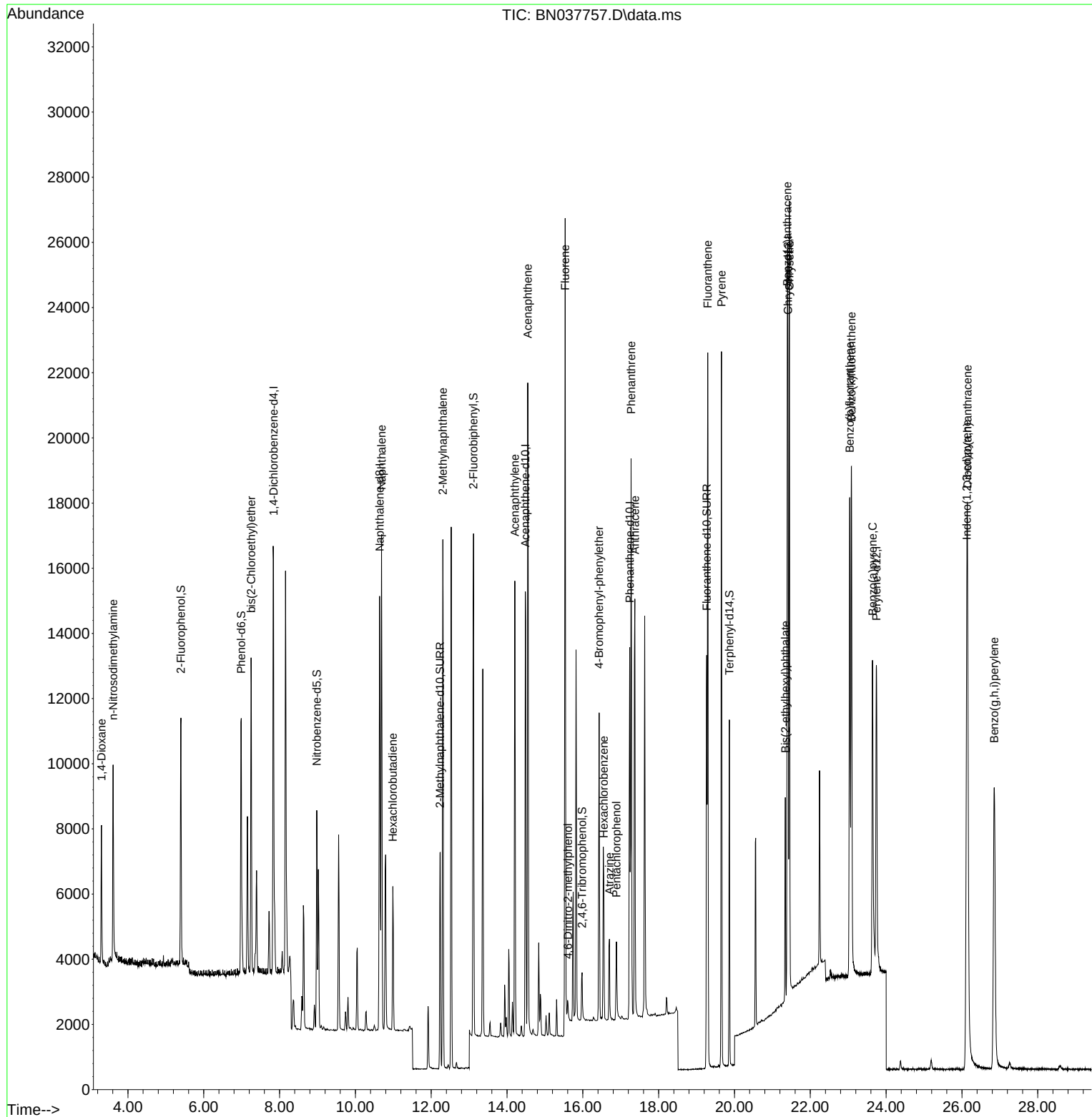
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	6630	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	17815	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	8255	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	14702	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	12983	0.400	ng	# 0.00
35) Perylene-d12	23.744	264	13482	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	6438	0.423	ng	0.00
5) Phenol-d6	6.988	99	7681	0.389	ng	0.00
8) Nitrobenzene-d5	8.982	82	5036	0.386	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	8966	0.380	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	1005	0.467	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	13587	0.394	ng	0.00
27) Fluoranthene-d10	19.266	212	13764	0.373	ng	0.00
31) Terphenyl-d14	19.866	244	9880	0.375	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.304	88	2861	0.414	ng	94
3) n-Nitrosodimethylamine	3.608	42	3465	0.384	ng	# 84
6) bis(2-Chloroethyl)ether	7.248	93	6964	0.395	ng	98
9) Naphthalene	10.690	128	18989	0.390	ng	100
10) Hexachlorobutadiene	10.989	225	3435	0.390	ng	# 100
12) 2-Methylnaphthalene	12.309	142	11595	0.385	ng	98
16) Acenaphthylene	14.206	152	14299	0.378	ng	100
17) Acenaphthene	14.548	154	9779	0.382	ng	98
18) Fluorene	15.535	166	11628	0.375	ng	99
20) 4,6-Dinitro-2-methylph...	15.609	198	458	0.336	ng	91
21) 4-Bromophenyl-phenylether	16.429	248	3725	0.389	ng	# 80
22) Hexachlorobenzene	16.553	284	4478	0.406	ng	98
23) Atrazine	16.702	200	2285	0.375	ng	97
24) Pentachlorophenol	16.888	266	1350	0.422	ng	98
25) Phenanthrene	17.273	178	18027	0.389	ng	100
26) Anthracene	17.372	178	15467	0.377	ng	99
28) Fluoranthene	19.294	202	19235	0.379	ng	100
30) Pyrene	19.657	202	19188	0.378	ng	100
32) Benzo(a)anthracene	21.393	228	16951	0.374	ng	100
33) Chrysene	21.447	228	19181	0.395	ng	98
34) Bis(2-ethylhexyl)phtha...	21.340	149	5358	0.399	ng	98
36) Indeno(1,2,3-cd)pyrene	26.127	276	23784	0.420	ng	99
37) Benzo(b)fluoranthene	23.040	252	20070	0.378	ng	99
38) Benzo(k)fluoranthene	23.087	252	21141	0.391	ng	99
39) Benzo(a)pyrene	23.642	252	15798	0.372	ng	99
40) Dibenzo(a,h)anthracene	26.148	278	19232	0.425	ng	98
41) Benzo(g,h,i)perylene	26.852	276	20047	0.395	ng	99

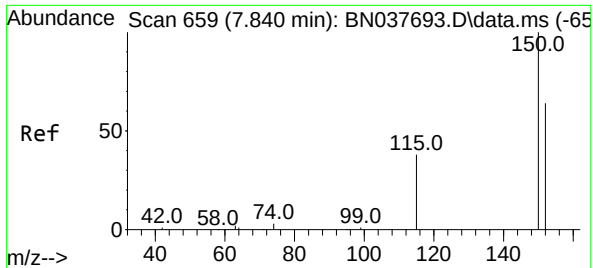
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037757.D
Acq On : 17 Sep 2025 21:50
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

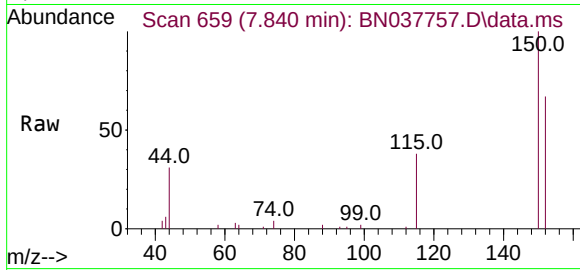
Quant Time: Sep 18 05:02:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



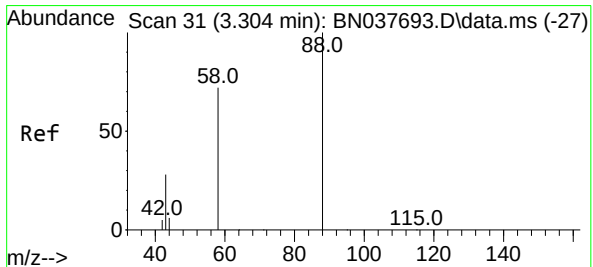
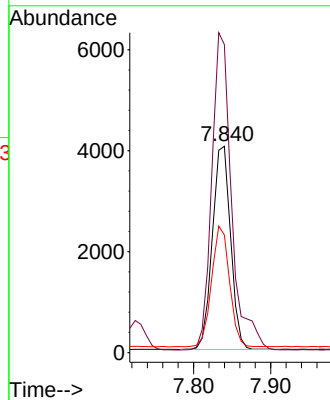
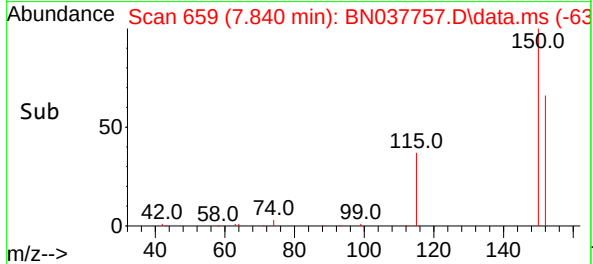


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

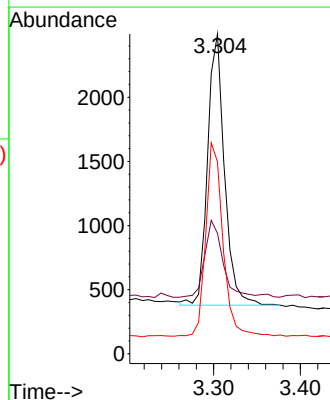
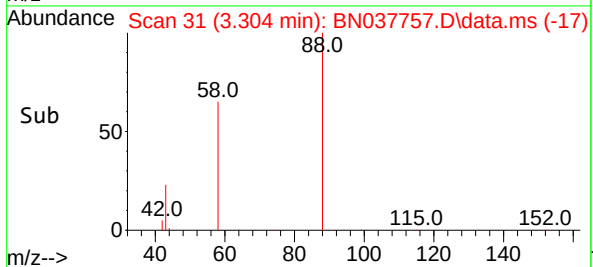
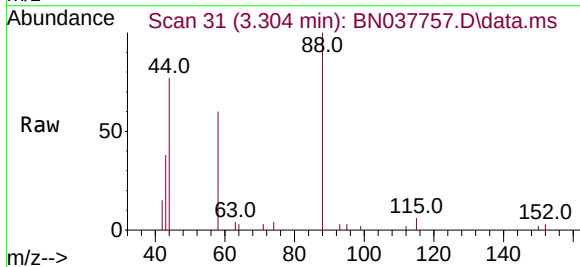


Tgt Ion:152 Resp: 6630
Ion Ratio Lower Upper
152 100
150 149.3 124.5 186.7
115 57.0 49.2 73.8

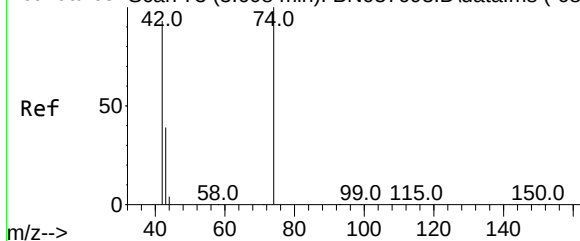


#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion: 88 Resp: 2861
Ion Ratio Lower Upper
88 100
43 29.8 26.8 40.2
58 71.9 61.9 92.9



Abundance Scan 73 (3.608 min): BN037693.D\data.ms (-68)



#3

n-Nitrosodimethylamine

Concen: 0.384 ng

RT: 3.608 min Scan# 73

Delta R.T. -0.000 min

Lab File: BN037757.D

Acq: 17 Sep 2025 21:50

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion: 42 Resp: 3465

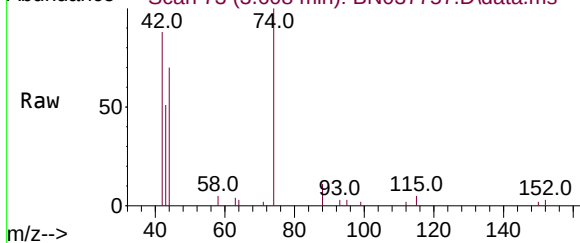
Ion Ratio Lower Upper

42 100

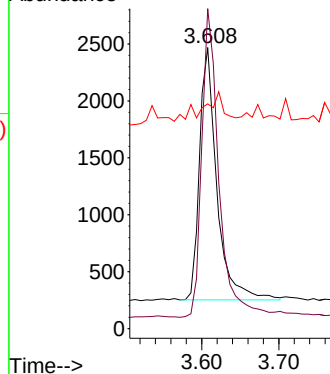
74 123.7 86.0 129.0

44 18.4 8.4 12.6#

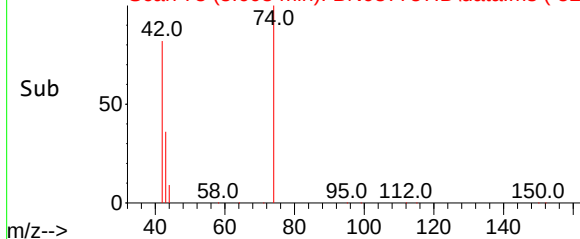
Abundance Scan 73 (3.608 min): BN037757.D\data.ms



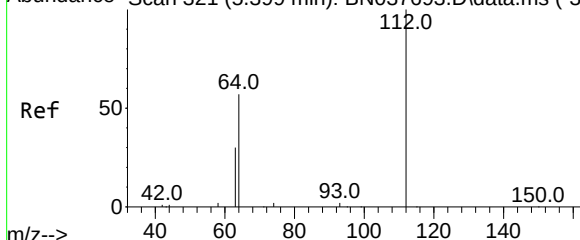
Abundance



Abundance Scan 73 (3.608 min): BN037757.D\data.ms (-52)



Abundance Scan 321 (5.399 min): BN037693.D\data.ms (-30)



#4

2-Fluorophenol

Concen: 0.423 ng

RT: 5.399 min Scan# 321

Delta R.T. -0.000 min

Lab File: BN037757.D

Acq: 17 Sep 2025 21:50

Tgt Ion: 112 Resp: 6438

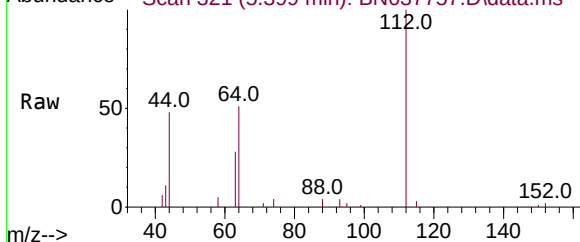
Ion Ratio Lower Upper

112 100

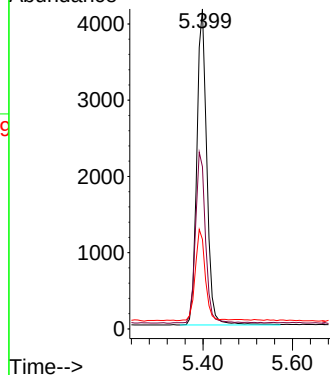
64 55.1 44.9 67.3

63 28.7 24.7 37.1

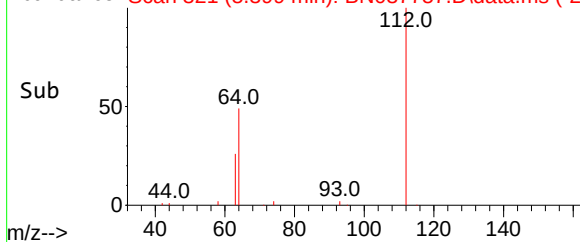
Abundance Scan 321 (5.399 min): BN037757.D\data.ms

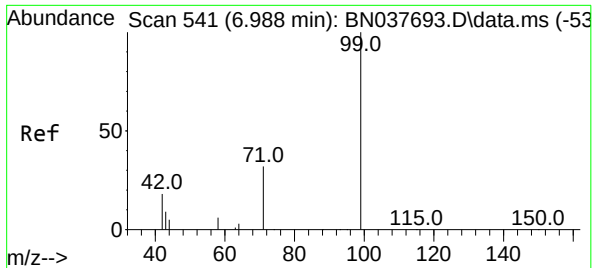


Abundance



Abundance Scan 321 (5.399 min): BN037757.D\data.ms (-29)

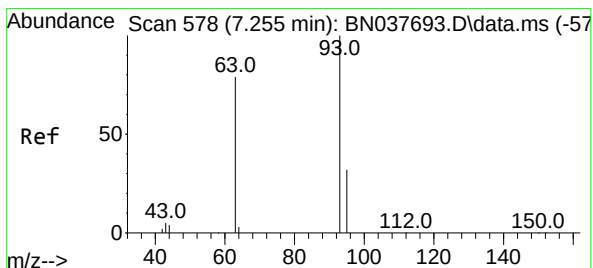
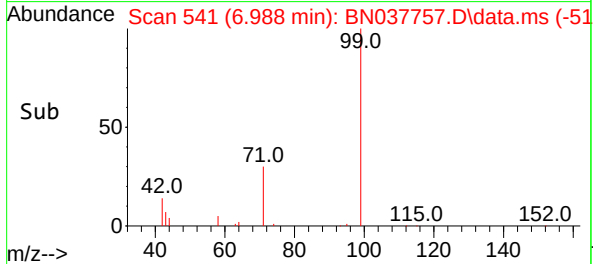
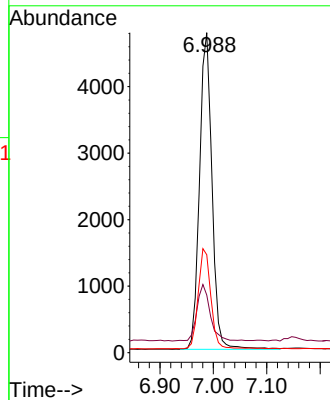
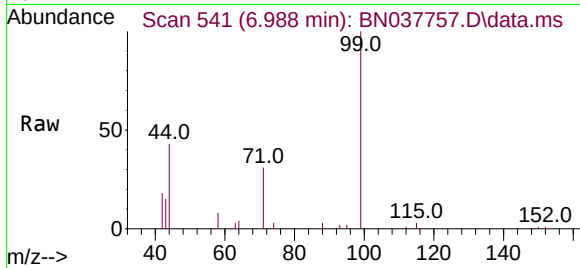




#5
Phenol-d6
Concen: 0.389 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

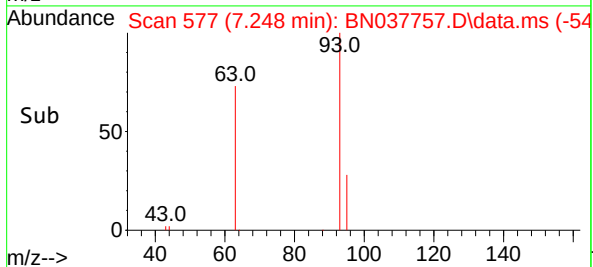
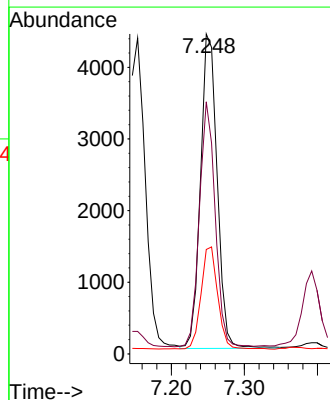
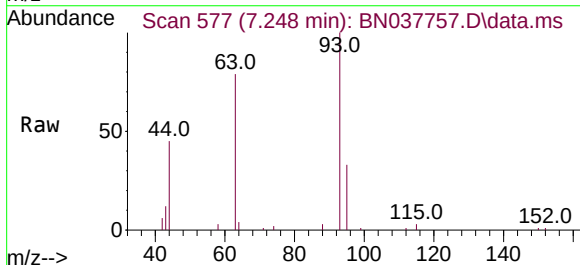
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

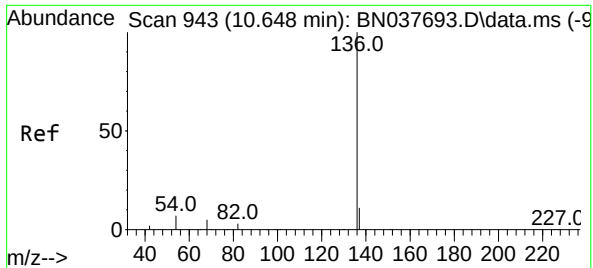
Tgt Ion: 99 Resp: 7681
Ion Ratio Lower Upper
99 100
42 19.0 16.6 24.8
71 32.2 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.395 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion: 93 Resp: 6964
Ion Ratio Lower Upper
93 100
63 73.6 60.6 90.8
95 32.6 26.0 39.0

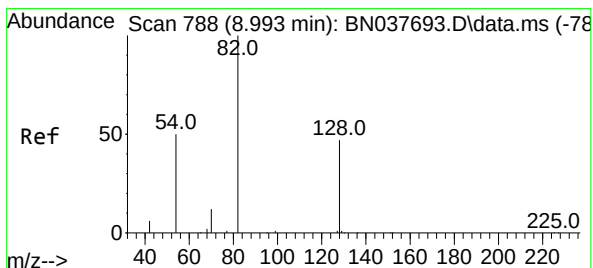
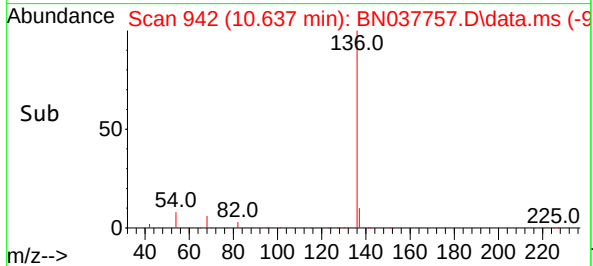
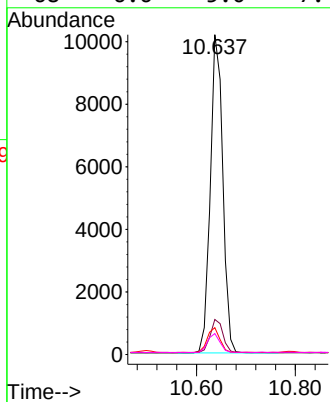
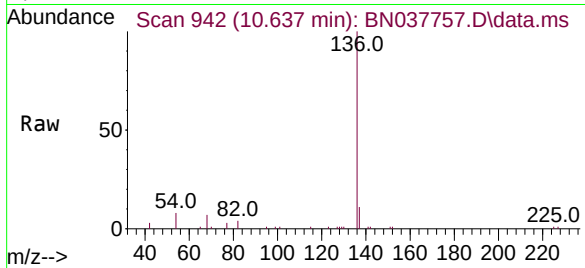




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

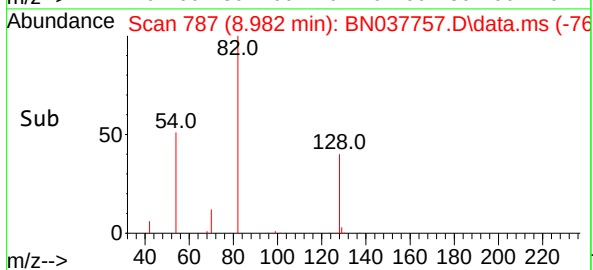
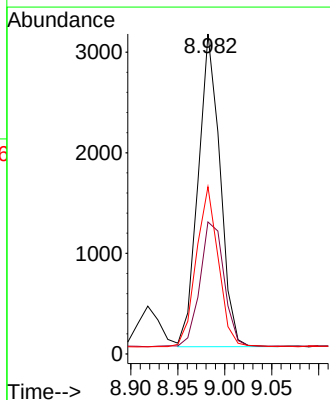
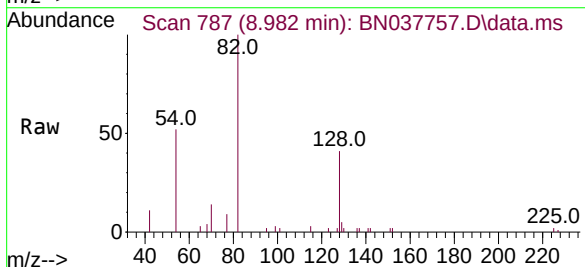
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

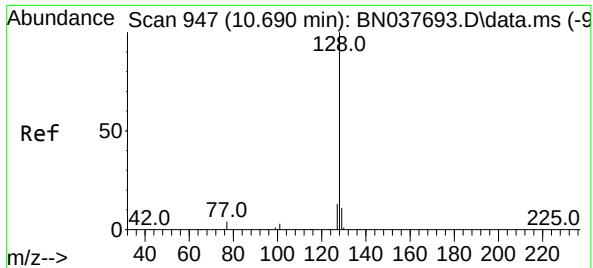
Tgt Ion:	136	Resp:	17815
Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.1	13.7
54	8.4	6.3	9.5
68	6.6	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.386 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion:	82	Resp:	5036
Ion	Ratio	Lower	Upper
82	100		
128	41.2	38.3	57.5
54	52.2	41.4	62.2

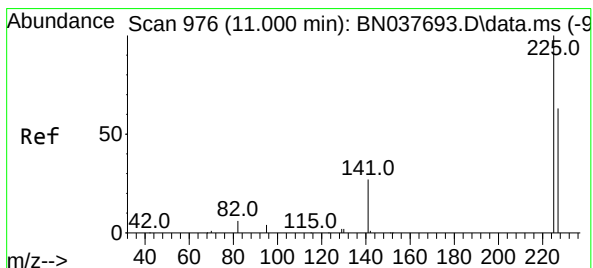
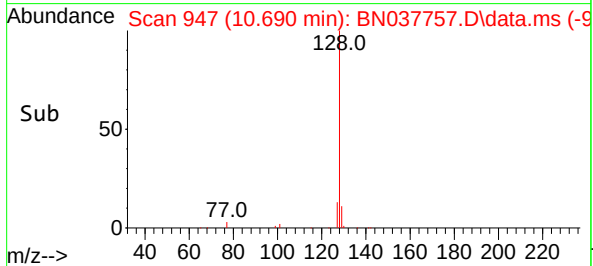
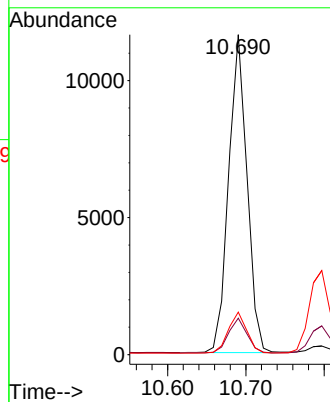
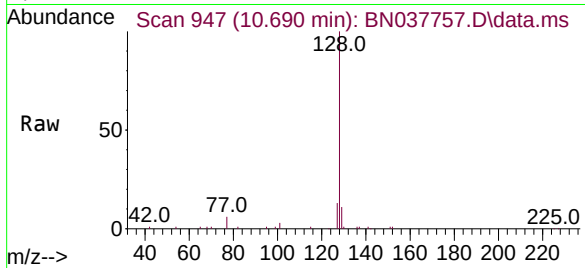




#9
Naphthalene
Concen: 0.390 ng
RT: 10.690 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

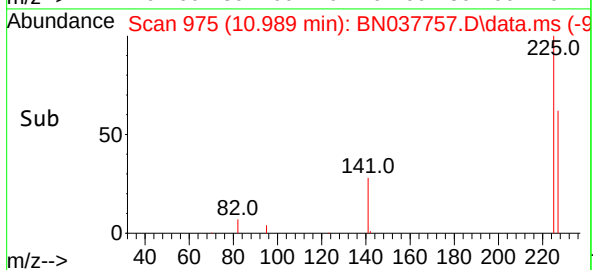
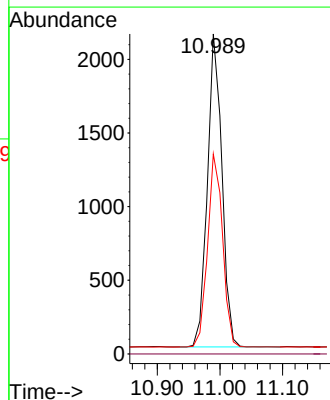
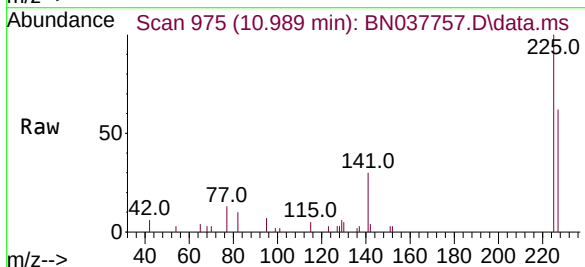
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

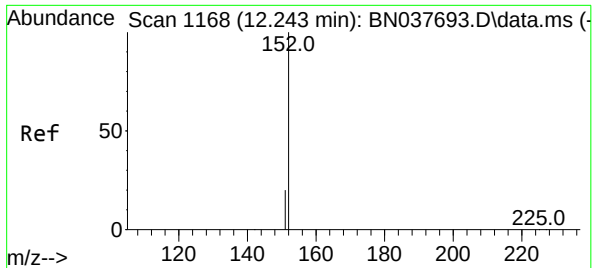
Tgt Ion:	128	Resp:	18989
Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.1	13.7
127	13.3	10.9	16.3



#10
Hexachlorobutadiene
Concen: 0.390 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion:	225	Resp:	3435
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	50.9	76.3

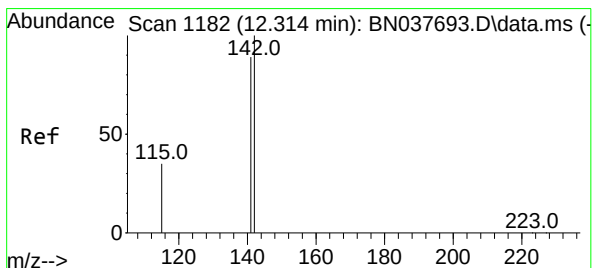
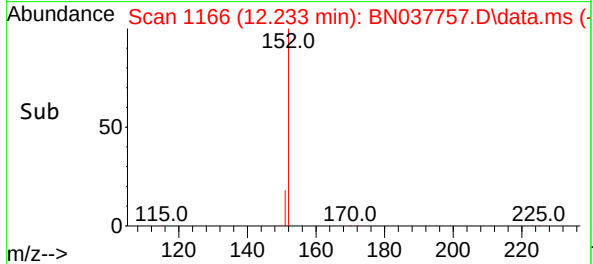
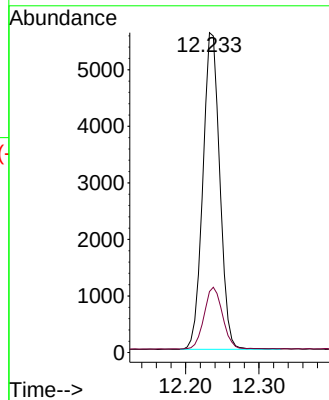
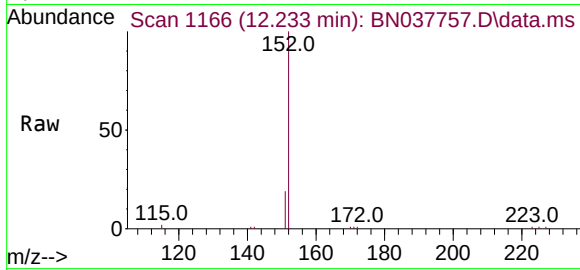




#11
2-Methylnaphthalene-d10
Concen: 0.380 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

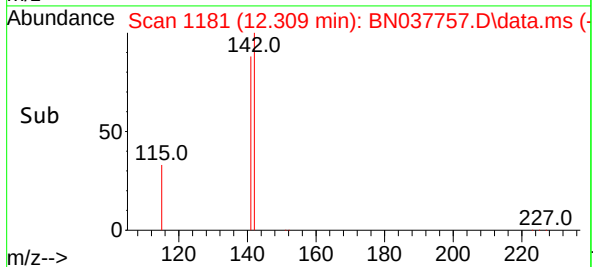
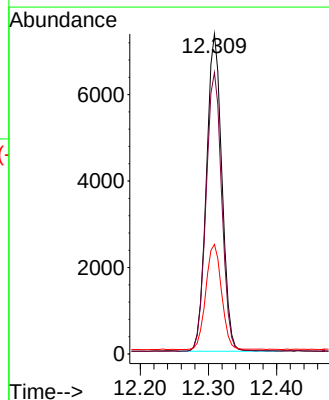
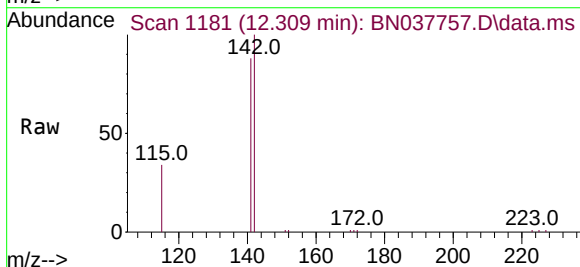
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

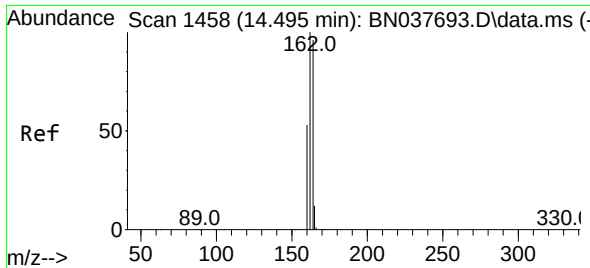
Tgt Ion:152 Resp: 8966
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.385 ng
RT: 12.309 min Scan# 1181
Delta R.T. -0.005 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion:142 Resp: 11595
Ion Ratio Lower Upper
142 100
141 87.9 71.6 107.4
115 34.2 28.6 43.0

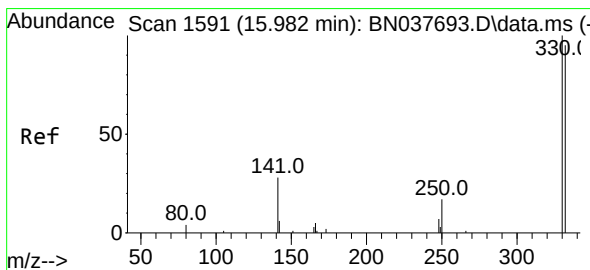
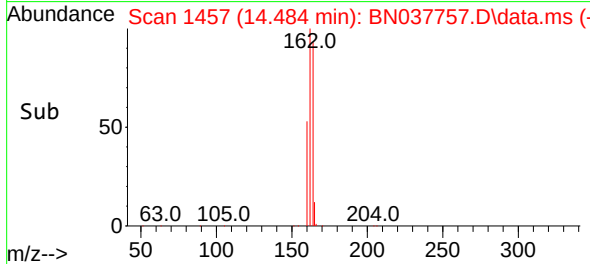
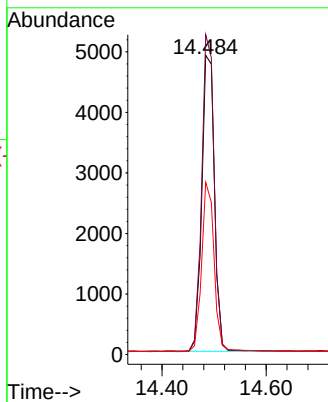
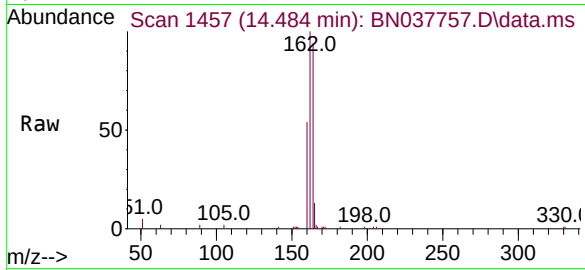




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

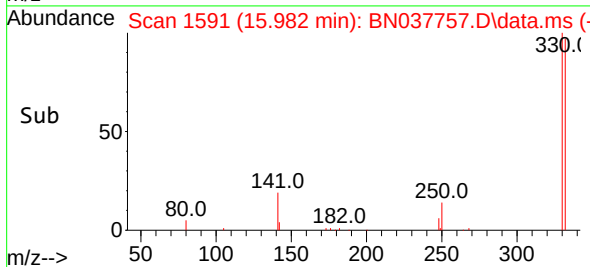
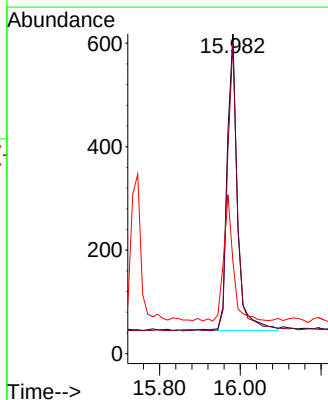
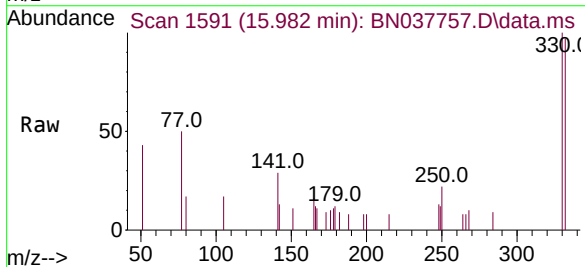
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

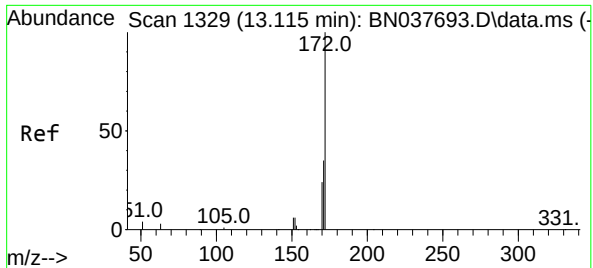
Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.9	83.1	124.7
160	57.6	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.467 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.2	75.3	112.9
141	40.3	35.0	52.4

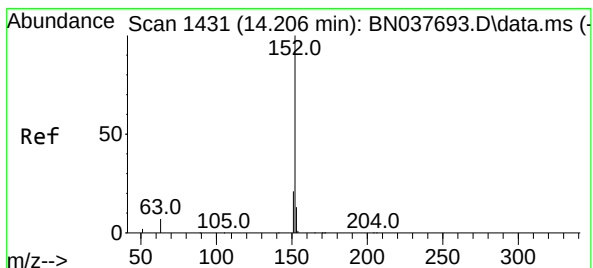
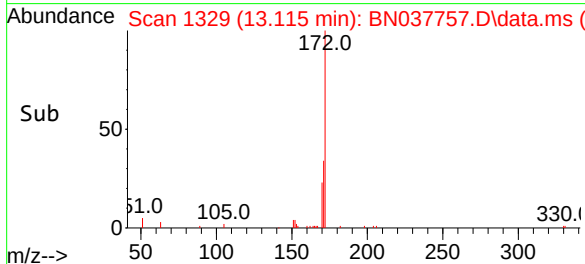
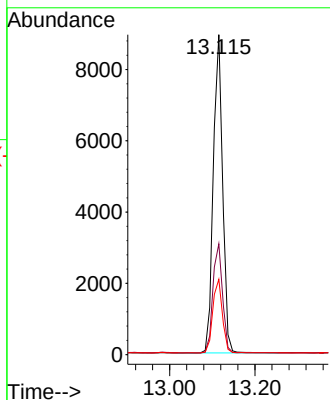
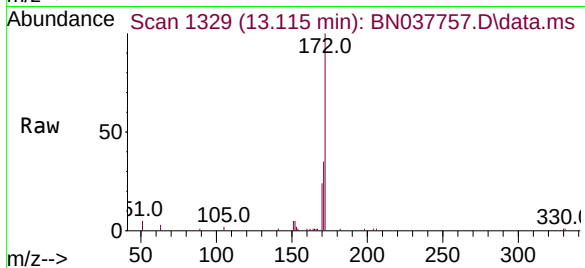




#15
2-Fluorobiphenyl
Concen: 0.394 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

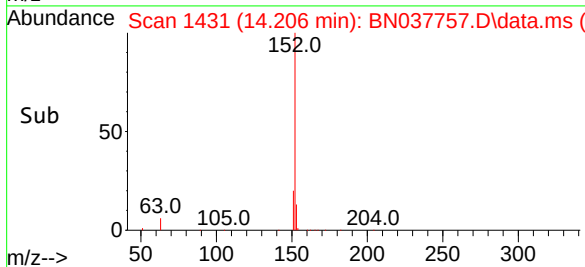
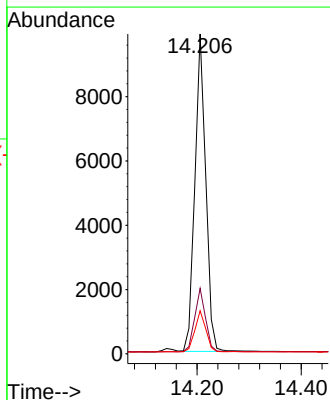
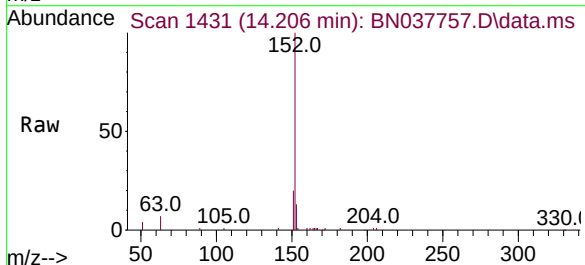
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

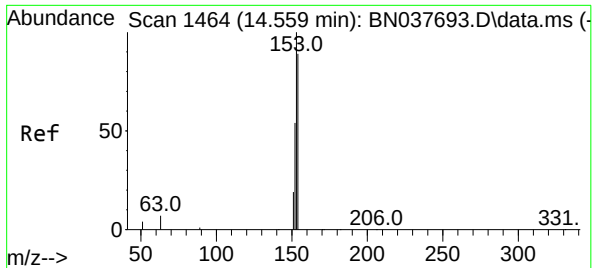
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.6	28.6	43.0
170	23.5	19.8	29.8



#16
Acenaphthylene
Concen: 0.378 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.2	10.4	15.6

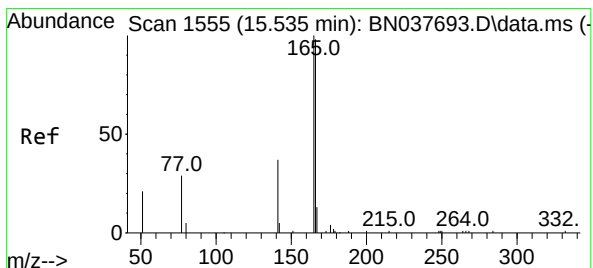
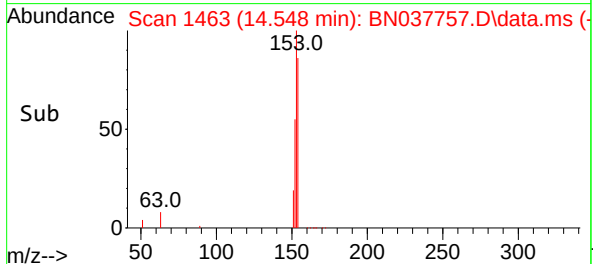
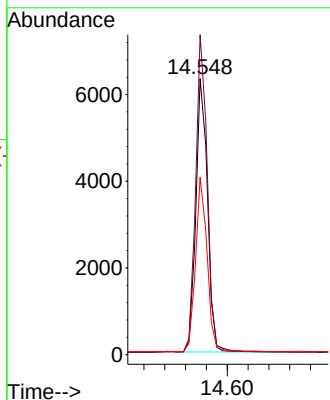
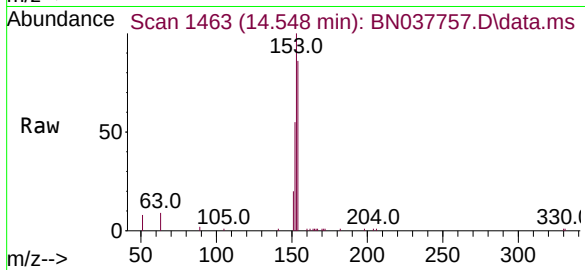




#17
Acenaphthene
Concen: 0.382 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

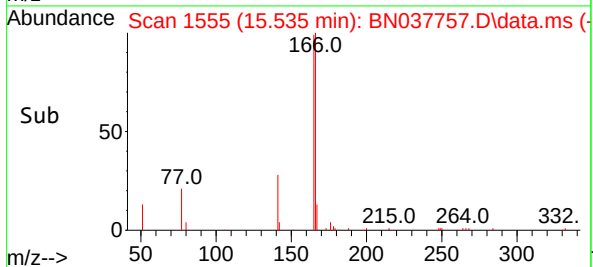
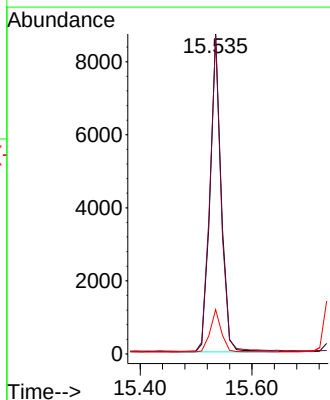
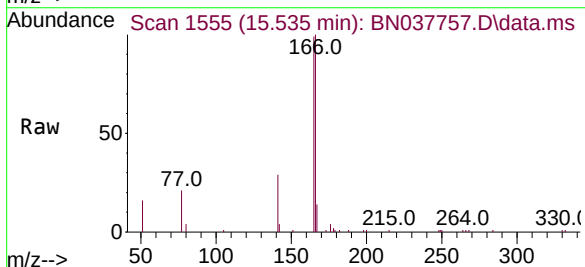
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

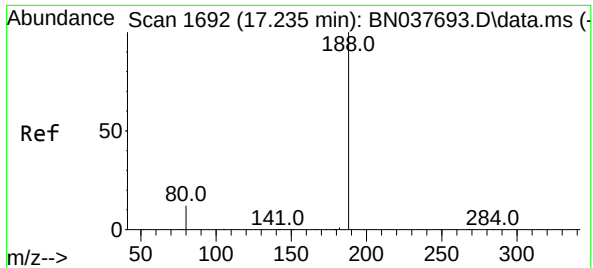
Tgt Ion:154 Resp: 9779
Ion Ratio Lower Upper
154 100
153 114.3 89.8 134.8
152 63.4 50.2 75.2



#18
Fluorene
Concen: 0.375 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion:166 Resp: 11628
Ion Ratio Lower Upper
166 100
165 100.7 79.6 119.4
167 13.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037757.D

Acq: 17 Sep 2025 21:50

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

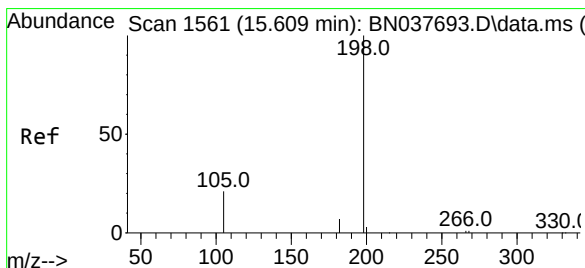
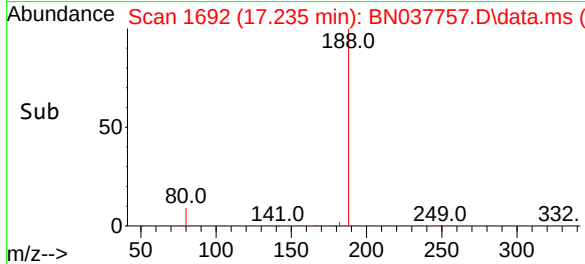
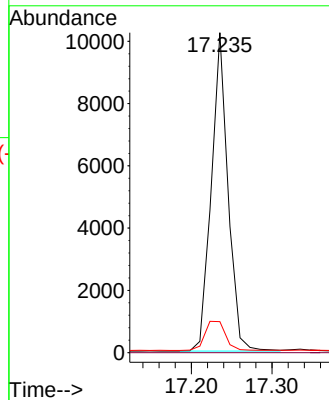
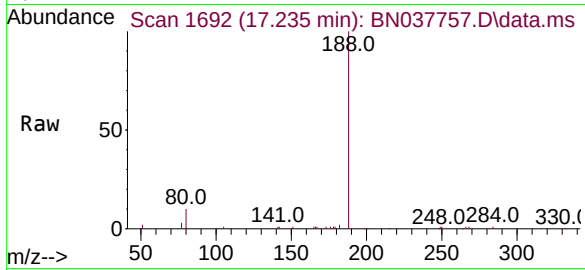
Tgt Ion:188 Resp: 14702

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.7 10.6 15.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.336 ng

RT: 15.609 min Scan# 1561

Delta R.T. 0.000 min

Lab File: BN037757.D

Acq: 17 Sep 2025 21:50

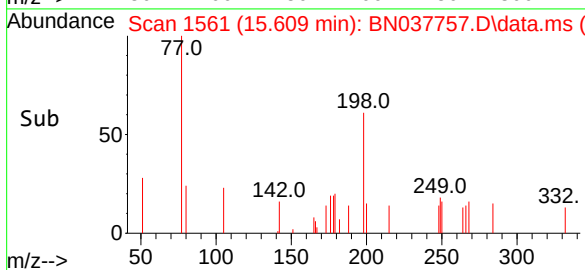
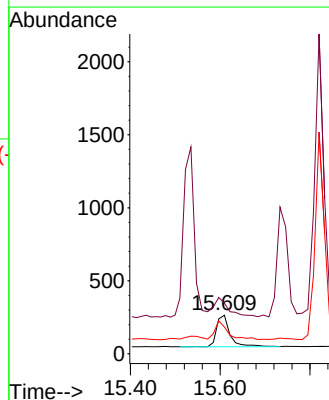
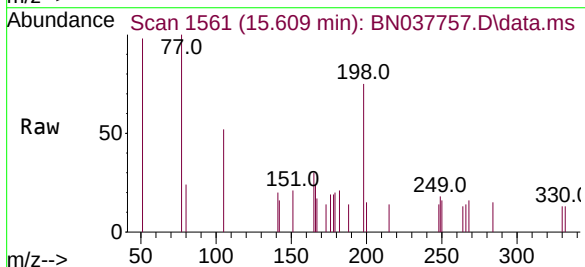
Tgt Ion:198 Resp: 458

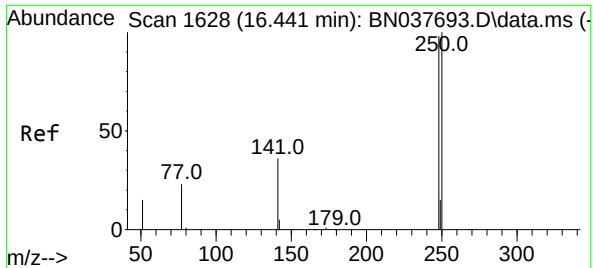
Ion Ratio Lower Upper

198 100

51 131.8 95.1 142.7

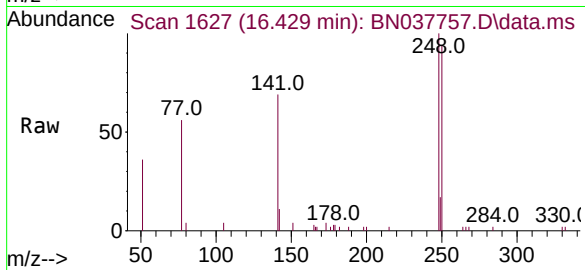
105 69.7 53.8 80.6



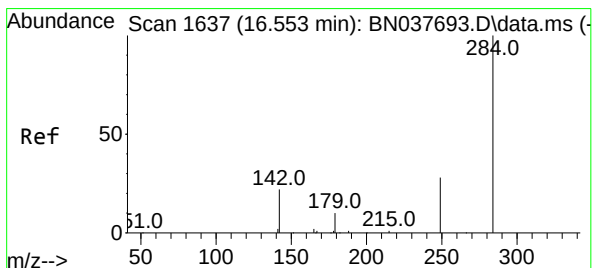
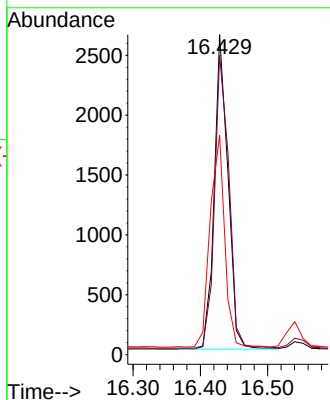
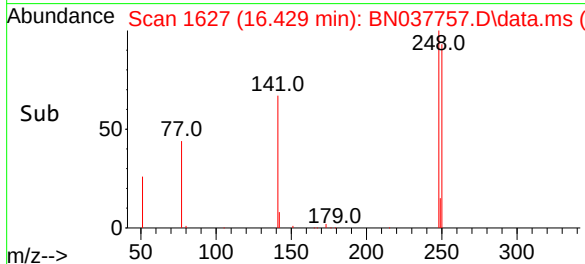


#21
4-Bromophenyl-phenylether
Concen: 0.389 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.012 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

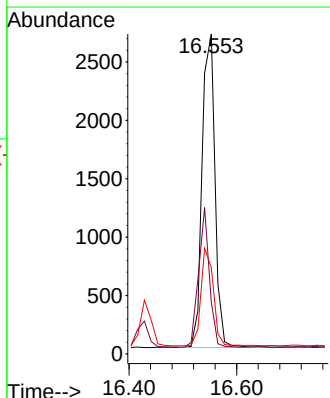
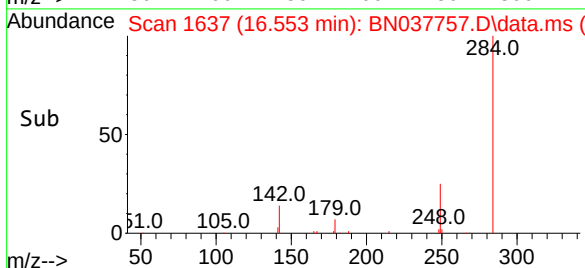
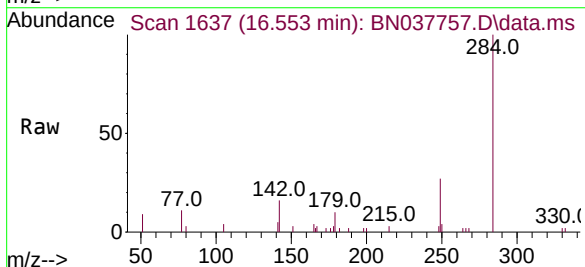


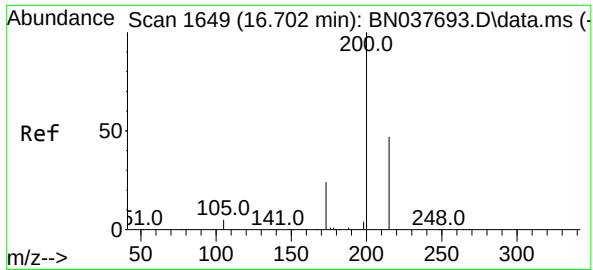
Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.6	81.5	122.3
141	68.5	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.406 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.5	30.9	46.3
249	29.8	24.8	37.2

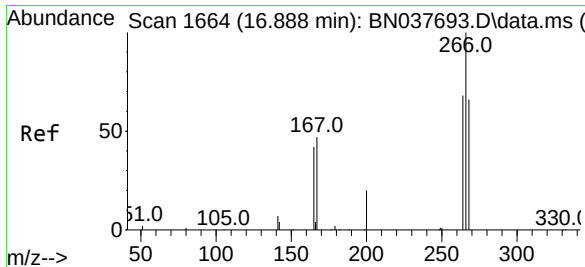
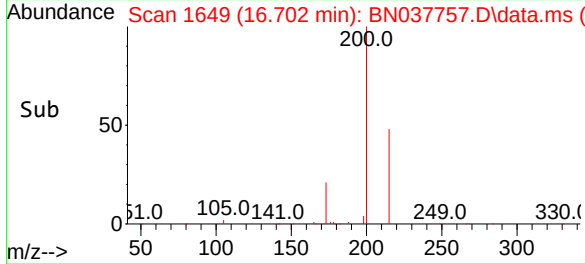
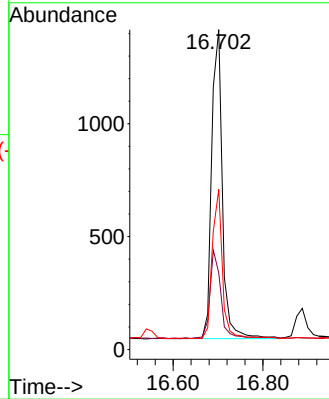
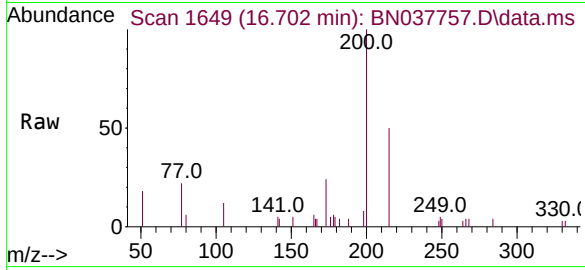




#23
Atrazine
Concen: 0.375 ng
RT: 16.702 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

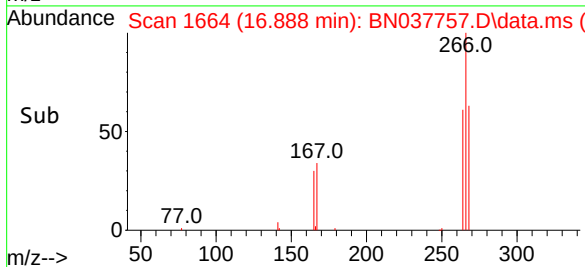
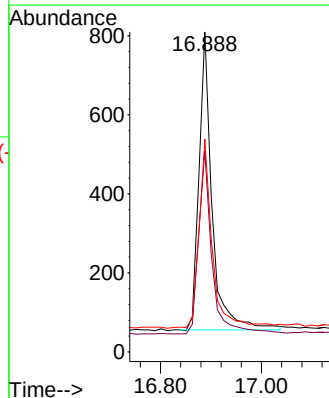
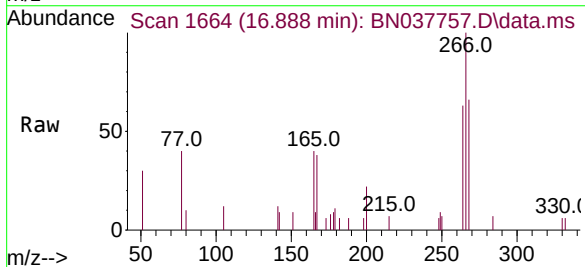
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

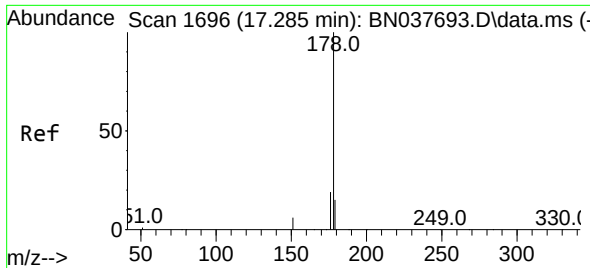
Tgt Ion	Ratio	Lower	Upper
200	100		
173	23.9	21.4	32.2
215	50.0	39.2	58.8



#24
Pentachlorophenol
Concen: 0.422 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.5	51.6	77.4
268	65.6	53.2	79.8

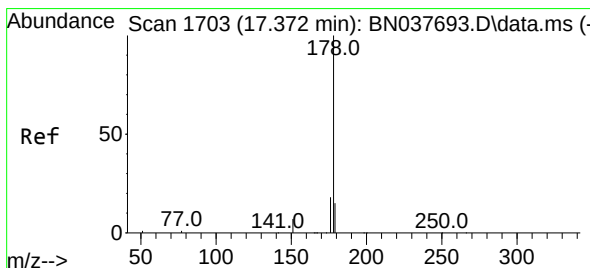
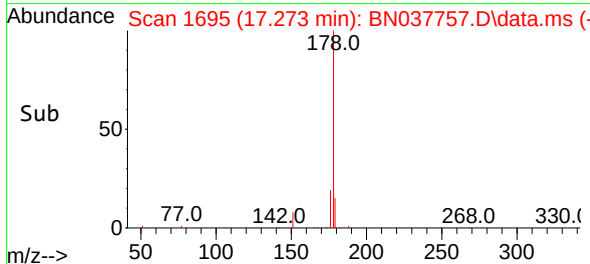
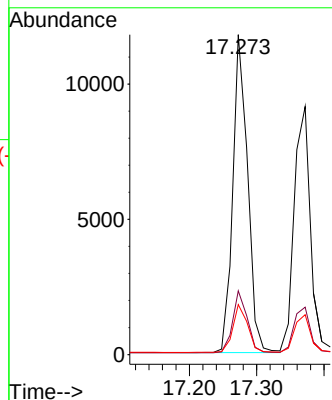
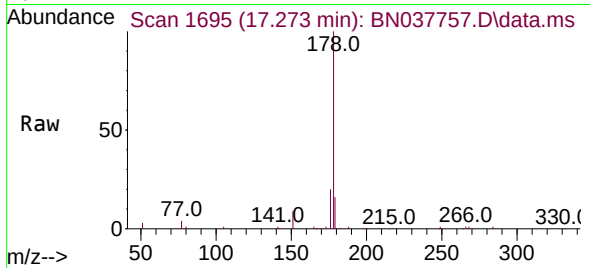




#25
Phenanthrene
Concen: 0.389 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.012 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

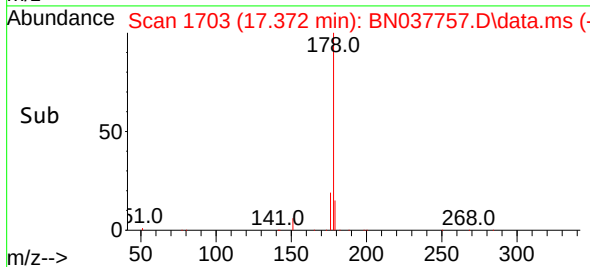
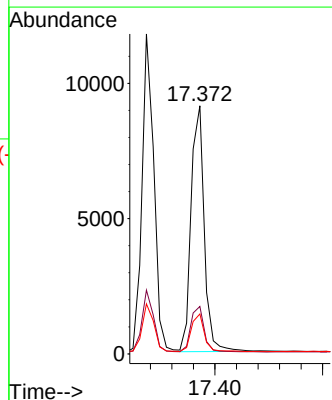
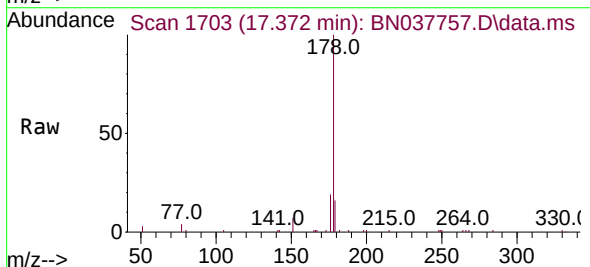
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

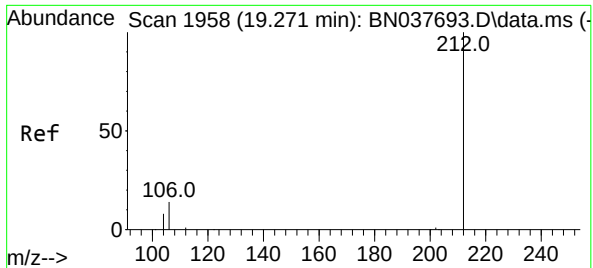
Tgt Ion:178 Resp: 18027
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.2 12.2 18.2



#26
Anthracene
Concen: 0.377 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion:178 Resp: 15467
Ion Ratio Lower Upper
178 100
176 18.8 14.6 22.0
179 15.0 12.2 18.4

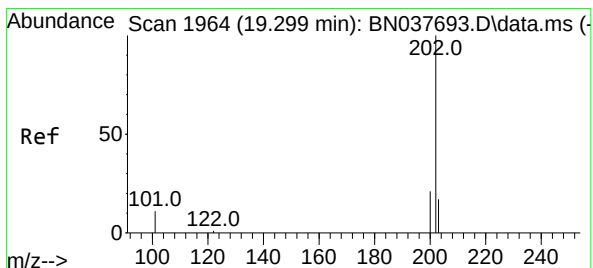
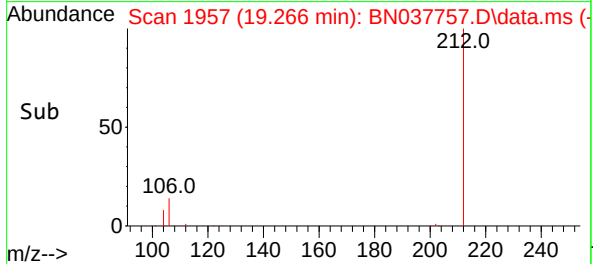
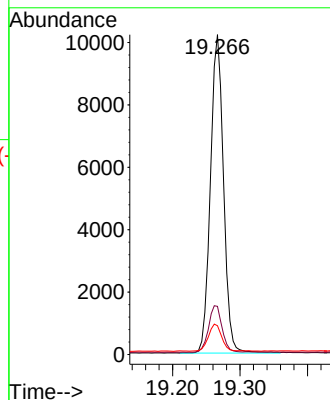
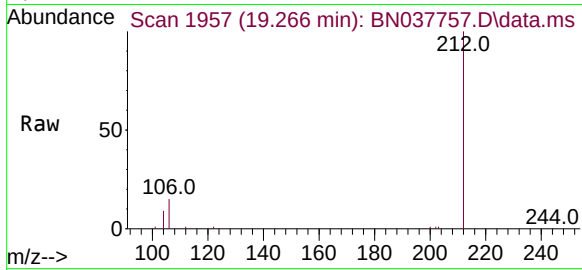




#27
Fluoranthene-d10
Concen: 0.373 ng
RT: 19.266 min Scan# 1957
Delta R.T. -0.005 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

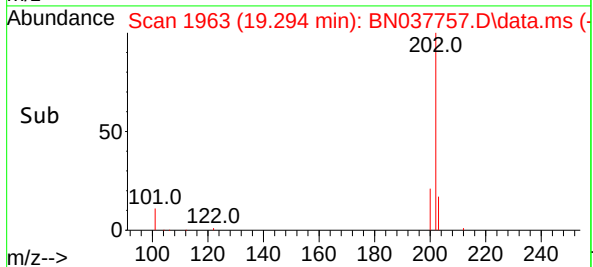
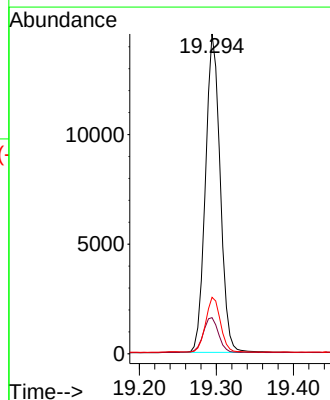
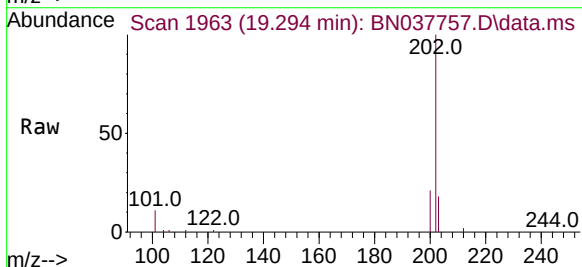
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

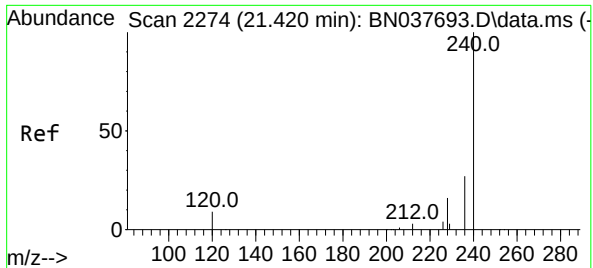
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.0	12.2	18.2
104	8.6	6.9	10.3



#28
Fluoranthene
Concen: 0.379 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.3	13.9
203	17.3	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.411 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037757.D

Acq: 17 Sep 2025 21:50

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

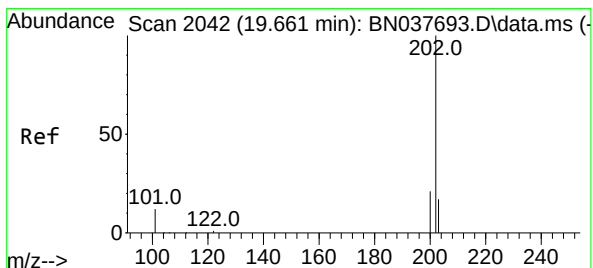
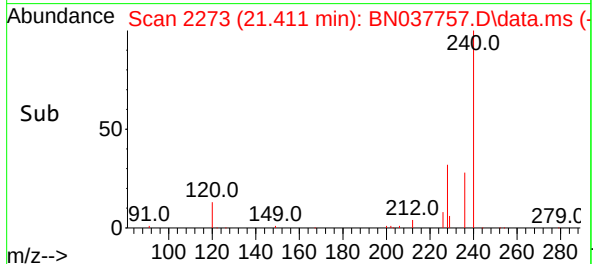
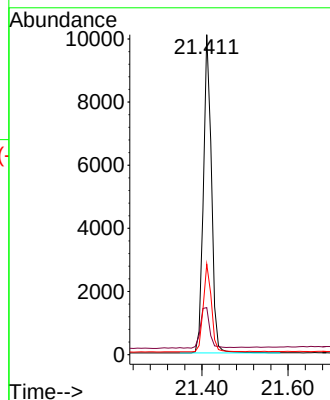
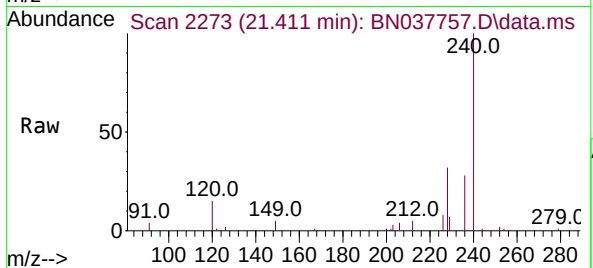
Tgt Ion:240 Resp: 12983

Ion Ratio Lower Upper

240 100

120 14.7 9.2 13.8#

236 28.3 22.6 33.8



#30

Pyrene

Concen: 0.378 ng

RT: 19.657 min Scan# 2041

Delta R.T. -0.005 min

Lab File: BN037757.D

Acq: 17 Sep 2025 21:50

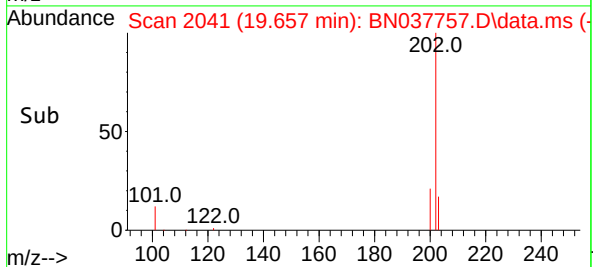
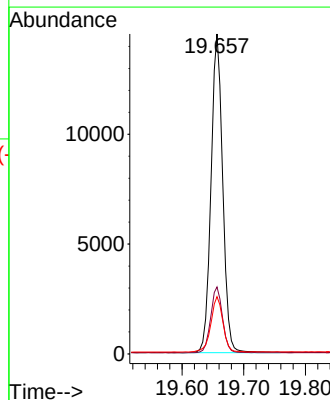
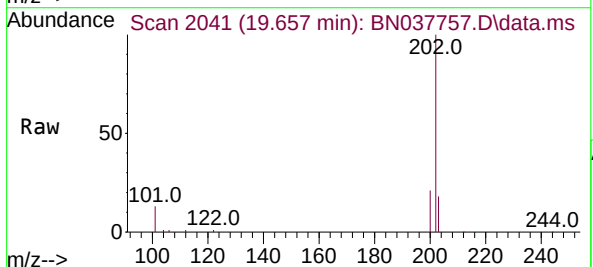
Tgt Ion:202 Resp: 19188

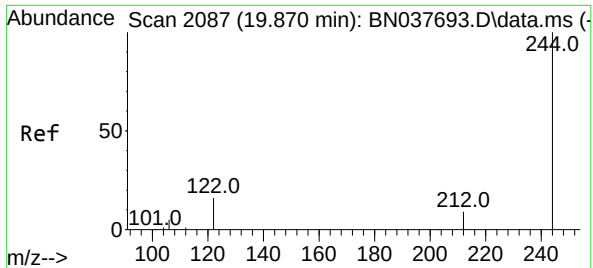
Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 17.9 14.3 21.5

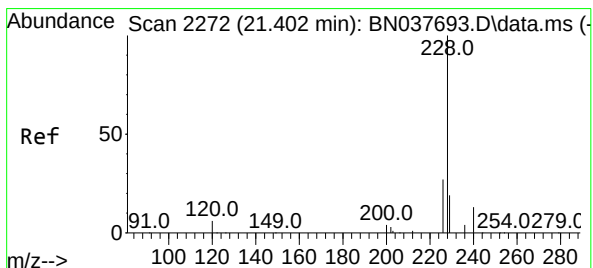
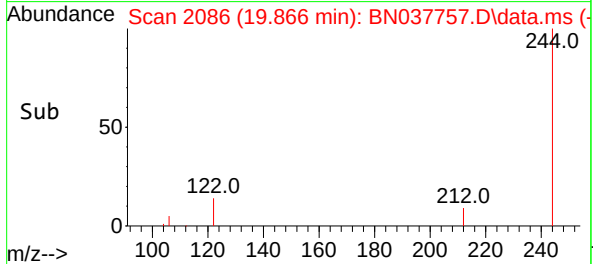
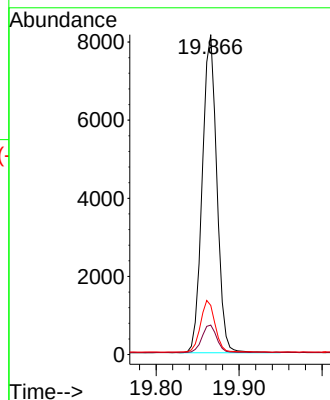
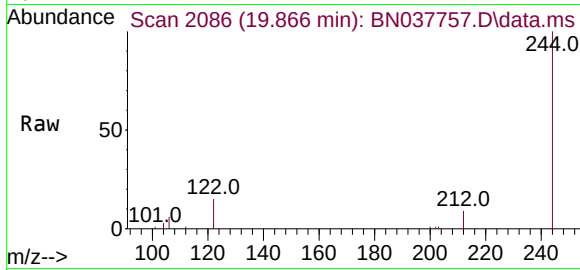




#31
Terphenyl-d14
Concen: 0.375 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

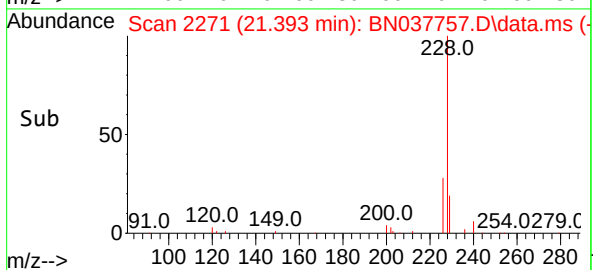
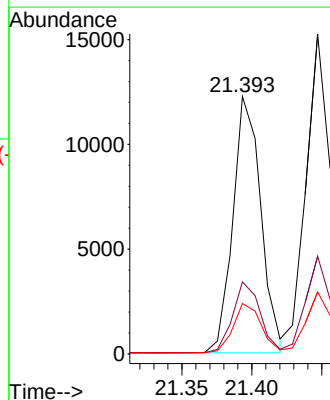
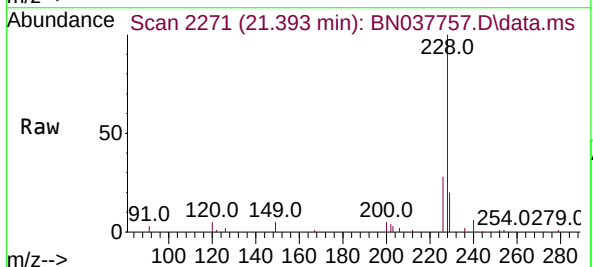
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

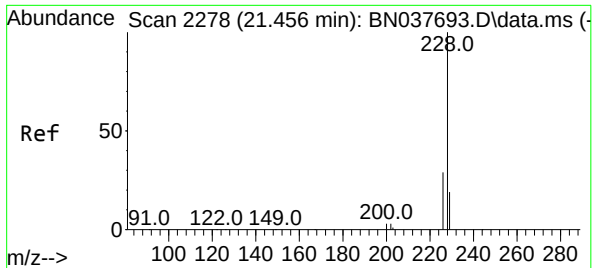
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.2	7.5	11.3
122	15.4	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.374 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.2	33.2
229	19.6	15.8	23.6





#33

Chrysene

Concen: 0.395 ng

RT: 21.447 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037757.D

Acq: 17 Sep 2025 21:50

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

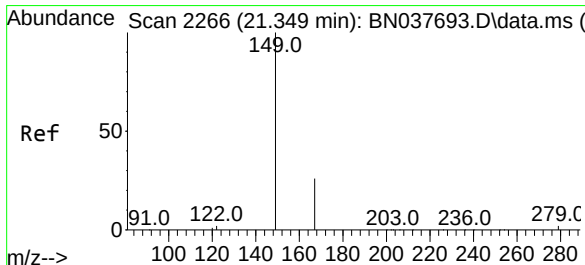
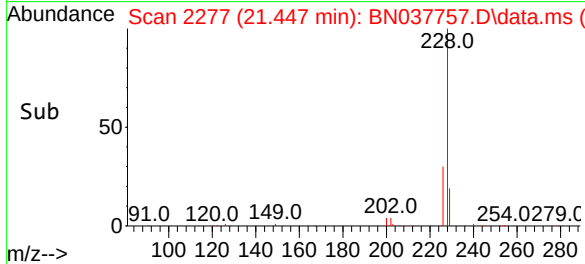
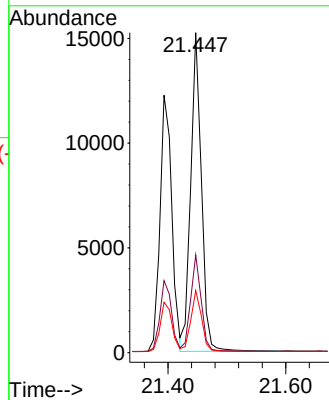
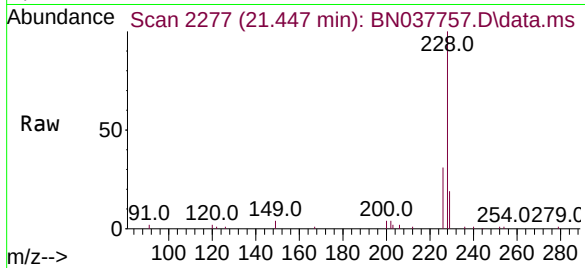
Tgt Ion:228 Resp: 19181

Ion Ratio Lower Upper

228 100

226 30.5 23.5 35.3

229 19.4 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.399 ng

RT: 21.340 min Scan# 2265

Delta R.T. -0.009 min

Lab File: BN037757.D

Acq: 17 Sep 2025 21:50

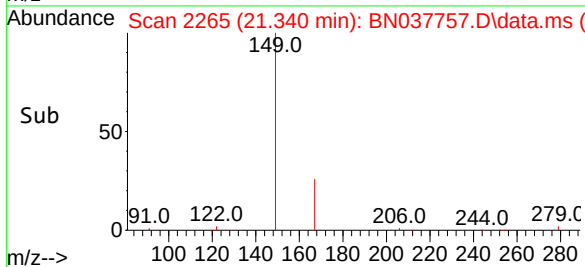
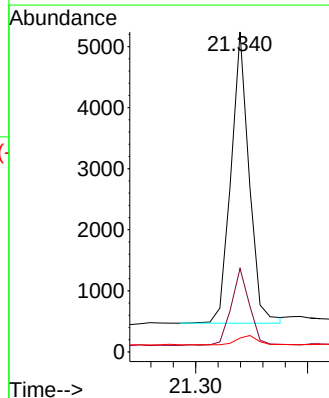
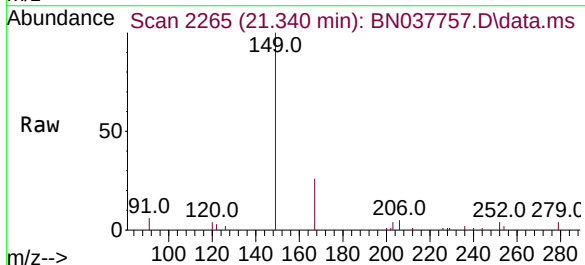
Tgt Ion:149 Resp: 5358

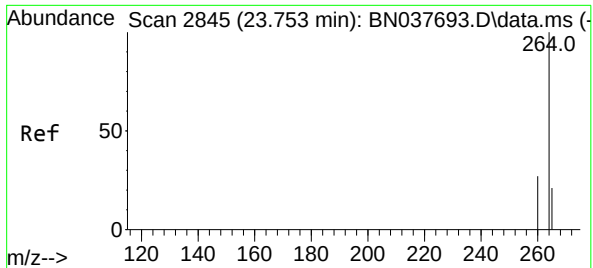
Ion Ratio Lower Upper

149 100

167 26.8 20.8 31.2

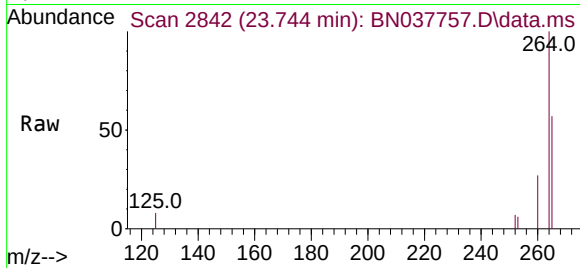
279 3.9 3.3 4.9



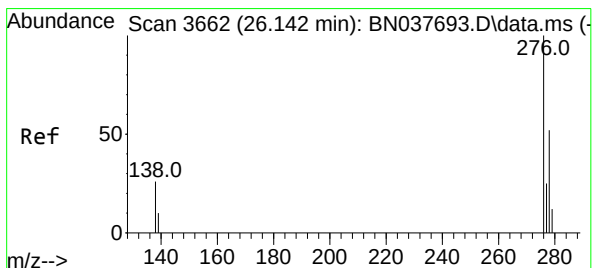
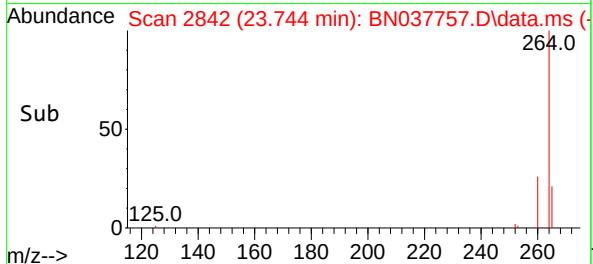
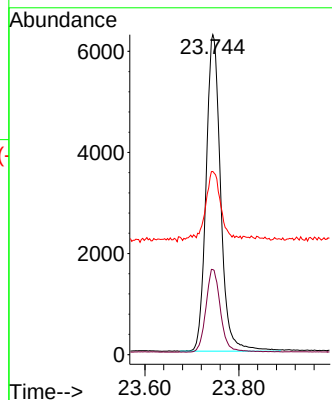


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

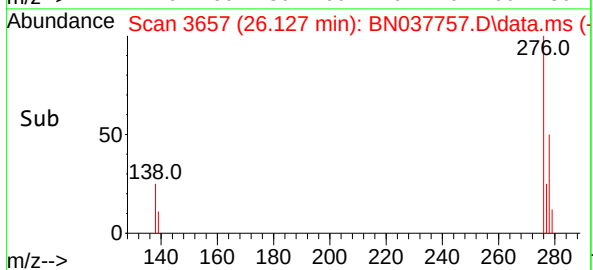
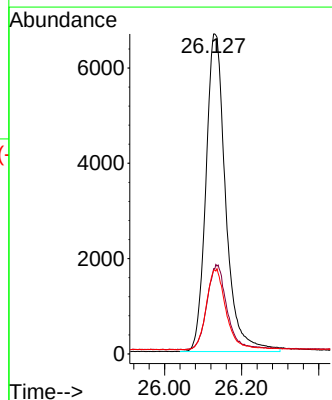
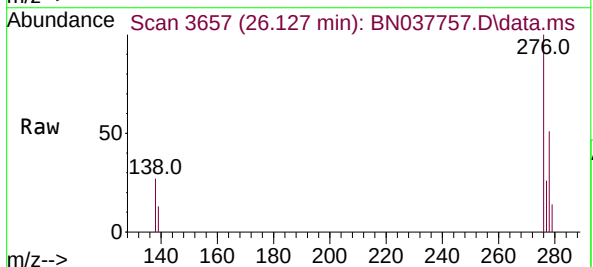


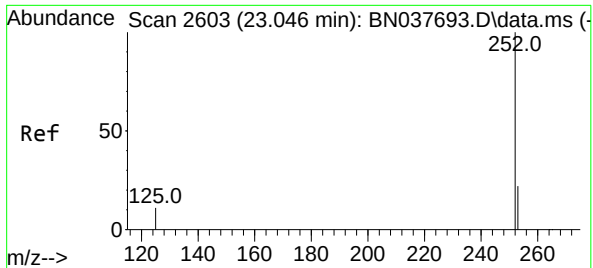
Tgt Ion:264 Resp: 13482
Ion Ratio Lower Upper
264 100
260 26.6 21.8 32.8
265 57.2 39.4 59.2



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.420 ng
RT: 26.127 min Scan# 3657
Delta R.T. -0.015 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion:276 Resp: 23784
Ion Ratio Lower Upper
276 100
138 27.2 21.9 32.9
277 25.4 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.378 ng

RT: 23.040 min Scan# 2601

Delta R.T. -0.006 min

Lab File: BN037757.D

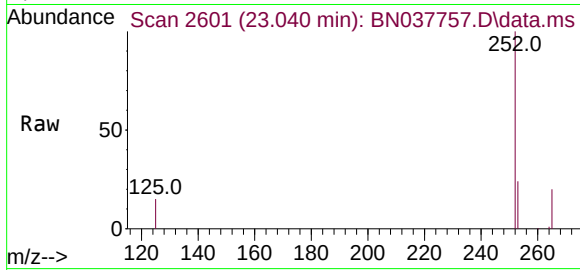
Acq: 17 Sep 2025 21:50

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



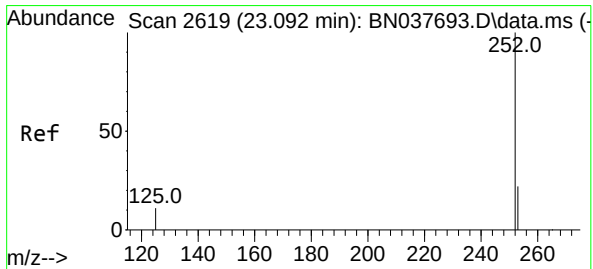
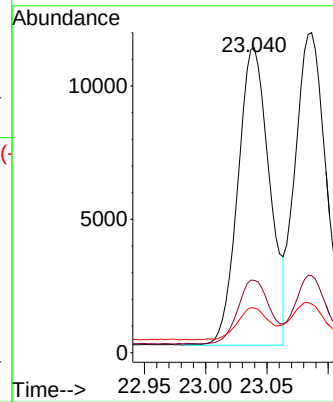
Tgt Ion:252 Resp: 20070

Ion Ratio Lower Upper

252 100

253 23.7 19.4 29.2

125 14.6 11.2 16.8



#38

Benzo(k)fluoranthene

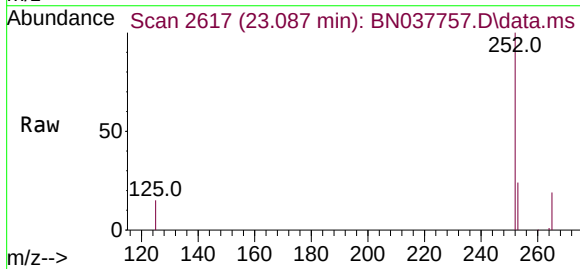
Concen: 0.391 ng

RT: 23.087 min Scan# 2617

Delta R.T. -0.006 min

Lab File: BN037757.D

Acq: 17 Sep 2025 21:50



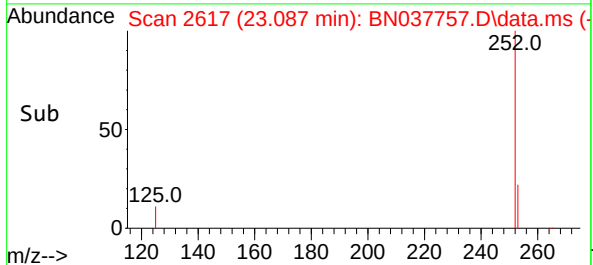
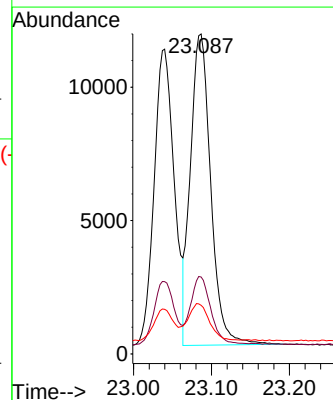
Tgt Ion:252 Resp: 21141

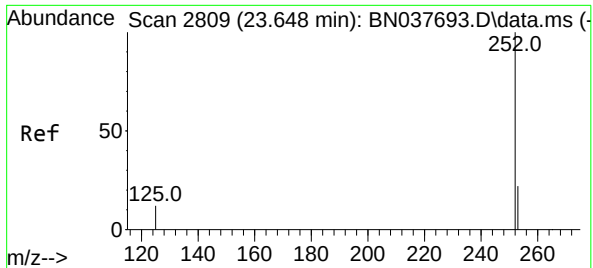
Ion Ratio Lower Upper

252 100

253 24.0 19.4 29.0

125 15.2 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.372 ng

RT: 23.642 min Scan# 2807

Delta R.T. -0.006 min

Lab File: BN037757.D

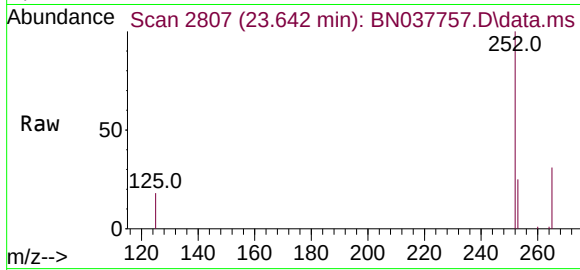
Acq: 17 Sep 2025 21:50

Instrument :

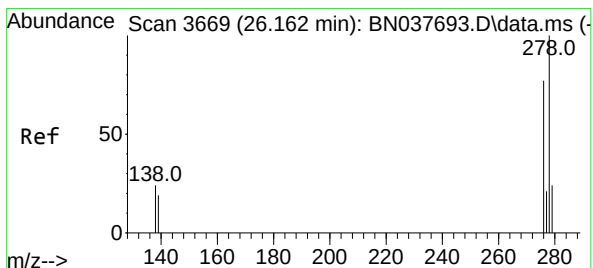
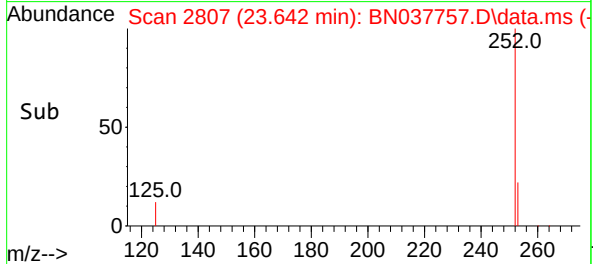
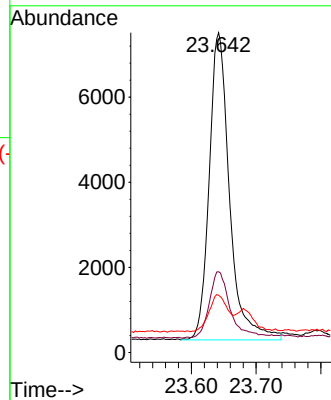
BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:	252	Resp:	15798
Ion Ratio	Lower	Upper	
252	100		
253	25.3	20.8	31.2
125	17.9	13.9	20.9



#40

Dibenzo(a,h)anthracene

Concen: 0.425 ng

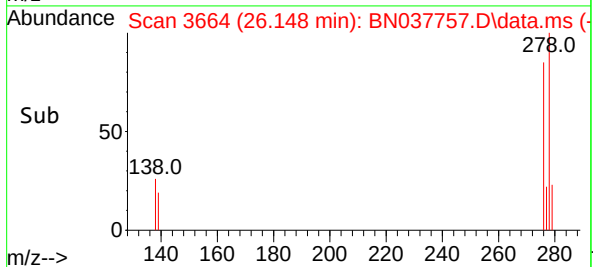
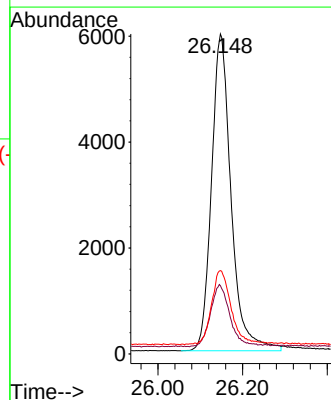
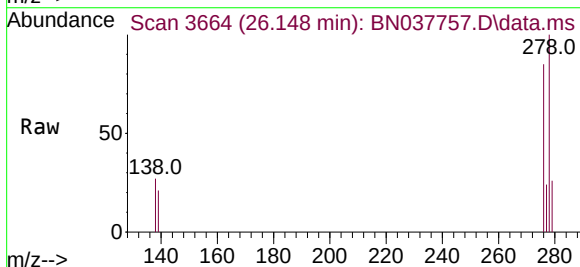
RT: 26.148 min Scan# 3664

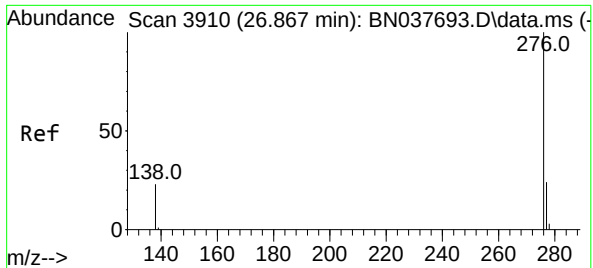
Delta R.T. -0.015 min

Lab File: BN037757.D

Acq: 17 Sep 2025 21:50

Tgt Ion:	278	Resp:	19232
Ion Ratio	Lower	Upper	
278	100		
139	21.3	17.8	26.6
279	26.0	22.0	33.0





#41

Benzo(g,h,i)perylene

Concen: 0.395 ng

RT: 26.852 min Scan# 39

Delta R.T. -0.015 min

Lab File: BN037757.D

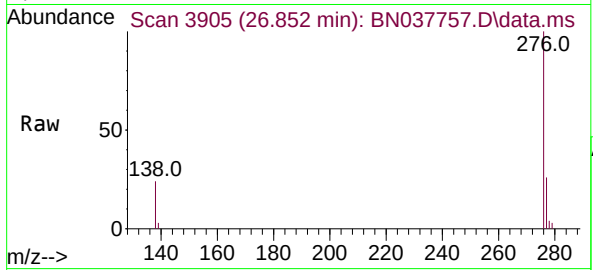
Acq: 17 Sep 2025 21:50

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



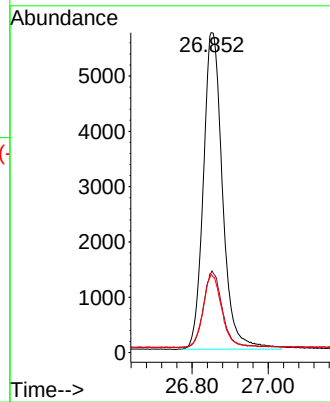
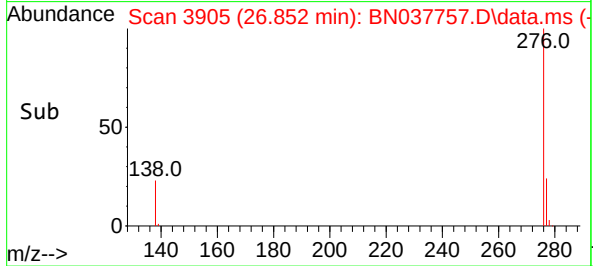
Tgt Ion:276 Resp: 20047

Ion Ratio Lower Upper

276 100

277 25.5 20.6 31.0

138 24.1 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
 Data File : BN037757.D
 Acq On : 17 Sep 2025 21:50
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 18 05:02:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	133	0.00
2	1,4-Dioxane	0.417	0.432	-3.6	136	0.00
3	n-Nitrosodimethylamine	0.544	0.523	3.9	123	0.00
4 S	2-Fluorophenol	0.918	0.971	-5.8	145	0.00
5 S	Phenol-d6	1.191	1.159	2.7	133	0.00
6	bis(2-Chloroethyl)ether	1.064	1.050	1.3	130	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	134	-0.01
8 S	Nitrobenzene-d5	0.293	0.283	3.4	134	-0.01
9	Naphthalene	1.093	1.066	2.5	133	0.00
10	Hexachlorobutadiene	0.198	0.193	2.5	131	-0.01
11 SURR	2-Methylnaphthalene-d10	0.530	0.503	5.1	136	-0.01
12	2-Methylnaphthalene	0.676	0.651	3.7	133	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	133	-0.01
14 S	2,4,6-Tribromophenol	0.104	0.122	-17.3	161#	0.00
15 S	2-Fluorobiphenyl	1.673	1.646	1.6	133	0.00
16	Acenaphthylene	1.834	1.732	5.6	129	0.00
17	Acenaphthene	1.240	1.185	4.4	130	-0.01
18	Fluorene	1.502	1.409	6.2	130	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	131	0.00
20	4,6-Dinitro-2-methylphenol	0.037	0.031	16.2	123	0.00
21	4-Bromophenyl-phenylether	0.261	0.253	3.1	132	-0.01
22	Hexachlorobenzene	0.300	0.305	-1.7	135	0.00
23	Atrazine	0.166	0.155	6.6	134	0.00
24	Pentachlorophenol	0.087	0.092	-5.7	161#	0.00
25	Phenanthrene	1.259	1.226	2.6	131	-0.01
26	Anthracene	1.116	1.052	5.7	128	0.00
27 SURR	Fluoranthene-d10	1.004	0.936	6.8	131	0.00
28	Fluoranthene	1.381	1.308	5.3	130	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	139	0.00
30	Pyrene	1.566	1.478	5.6	132	0.00
31 S	Terphenyl-d14	0.812	0.761	6.3	132	0.00
32	Benzo(a)anthracene	1.395	1.306	6.4	134	0.00
33	Chrysene	1.496	1.477	1.3	137	0.00
34	Bis(2-ethylhexyl)phthalate	0.414	0.413	0.2	152#	0.00
35 I	Perylene-d12	1.000	1.000	0.0	150#	0.00
36	Indeno(1,2,3-cd)pyrene	1.681	1.764	-4.9	172#	-0.01
37	Benzo(b)fluoranthene	1.575	1.489	5.5	144	0.00
38	Benzo(k)fluoranthene	1.606	1.568	2.4	155#	0.00
39 C	Benzo(a)pyrene	1.261	1.172	7.1	147	0.00
40	Dibenzo(a,h)anthracene	1.342	1.426	-6.3	177#	-0.01
41	Benzo(g,h,i)perylene	1.506	1.487	1.3	154#	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
 Data File : BN037757.D
 Acq On : 17 Sep 2025 21:50
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 18 05:02:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	133	0.00
2	1,4-Dioxane	0.400	0.414	-3.5	136	0.00
3	n-Nitrosodimethylamine	0.400	0.384	4.0	123	0.00
4 S	2-Fluorophenol	0.400	0.423	-5.7	145	0.00
5 S	Phenol-d6	0.400	0.389	2.8	133	0.00
6	bis(2-Chloroethyl)ether	0.400	0.395	1.3	130	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	134	-0.01
8 S	Nitrobenzene-d5	0.400	0.386	3.5	134	-0.01
9	Naphthalene	0.400	0.390	2.5	133	0.00
10	Hexachlorobutadiene	0.400	0.390	2.5	131	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.380	5.0	136	-0.01
12	2-Methylnaphthalene	0.400	0.385	3.8	133	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	133	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.467	-16.8	161	0.00
15 S	2-Fluorobiphenyl	0.400	0.394	1.5	133	0.00
16	Acenaphthylene	0.400	0.378	5.5	129	0.00
17	Acenaphthene	0.400	0.382	4.5	130	-0.01
18	Fluorene	0.400	0.375	6.3	130	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	131	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.336	16.0	123	0.00
21	4-Bromophenyl-phenylether	0.400	0.389	2.8	132	-0.01
22	Hexachlorobenzene	0.400	0.406	-1.5	135	0.00
23	Atrazine	0.400	0.375	6.3	134	0.00
24	Pentachlorophenol	0.400	0.422	-5.5	161	0.00
25	Phenanthrene	0.400	0.389	2.8	131	-0.01
26	Anthracene	0.400	0.377	5.8	128	0.00
27 SURR	Fluoranthene-d10	0.400	0.373	6.8	131	0.00
28	Fluoranthene	0.400	0.379	5.3	130	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	139	0.00
30	Pyrene	0.400	0.378	5.5	132	0.00
31 S	Terphenyl-d14	0.400	0.375	6.3	132	0.00
32	Benzo(a)anthracene	0.400	0.374	6.5	134	0.00
33	Chrysene	0.400	0.395	1.3	137	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.399	0.3	152	0.00
35 I	Perylene-d12	0.400	0.400	0.0	150	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.420	-5.0	172	-0.01
37	Benzo(b)fluoranthene	0.400	0.378	5.5	144	0.00
38	Benzo(k)fluoranthene	0.400	0.391	2.3	155	0.00
39 C	Benzo(a)pyrene	0.400	0.372	7.0	147	0.00
40	Dibenzo(a,h)anthracene	0.400	0.425	-6.2	177	-0.01
41	Benzo(g,h,i)perylene	0.400	0.395	1.3	154	-0.01

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>AECO15</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3095</u>
Instrument ID:	<u>BNA_N</u>	Calibration Date/Time:	<u>09/18/2025 02:46</u>
Lab File ID:	<u>BN037759.D</u>	Init. Calib. Date(s):	<u>09/11/2025 09/11/2025</u>
EPA Sample No.:	<u>SSTDCCC0.4</u>	Init. Calib. Time(s):	<u>09:56 13:33</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.511		-3.6	20.0
Fluoranthene-d10	1.004	0.949		-5.5	20.0
2-Fluorophenol	0.918	0.939		2.3	20.0
Phenol-d6	1.191	1.179		-1.0	20.0
Nitrobenzene-d5	0.293	0.286		-2.4	20.0
2-Fluorobiphenyl	1.673	1.646		-1.6	20.0
2,4,6-Tribromophenol	0.104	0.120		15.4	20.0
Terphenyl-d14	0.812	0.735		-9.5	20.0
1,4-Dioxane	0.417	0.432		3.6	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
 Data File : BN037759.D
 Acq On : 18 Sep 2025 02:46
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Sep 18 05:02:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

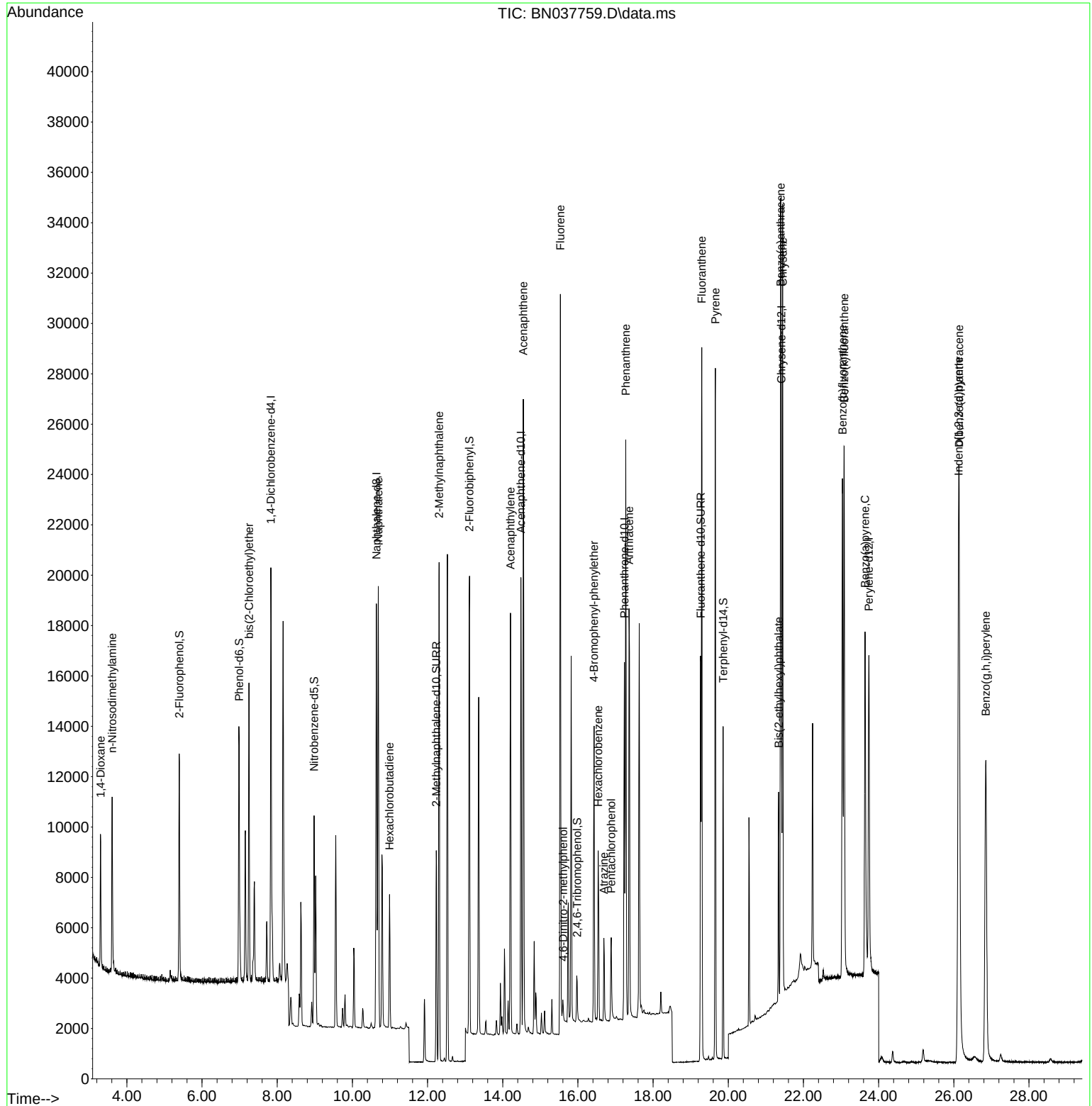
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	8012	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	21664	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	10192	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	18613	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	16797	0.400	ng	0.00
35) Perylene-d12	23.741	264	18043	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	7521	0.409	ng	0.00
5) Phenol-d6	6.988	99	9450	0.396	ng	0.00
8) Nitrobenzene-d5	8.982	82	6195	0.391	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	11065	0.386	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	1222	0.460	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	16772	0.393	ng	0.00
27) Fluoranthene-d10	19.267	212	17669	0.378	ng	0.00
31) Terphenyl-d14	19.861	244	12341	0.362	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.304	88	3460	0.415	ng	95
3) n-Nitrosodimethylamine	3.608	42	4100	0.376	ng	91
6) bis(2-Chloroethyl)ether	7.248	93	8459	0.397	ng	99
9) Naphthalene	10.690	128	23012	0.389	ng	99
10) Hexachlorobutadiene	10.989	225	4127	0.385	ng	# 99
12) 2-Methylnaphthalene	12.309	142	14242	0.389	ng	98
16) Acenaphthylene	14.206	152	17762	0.380	ng	99
17) Acenaphthene	14.548	154	12273	0.388	ng	99
18) Fluorene	15.535	166	14482	0.378	ng	99
20) 4,6-Dinitro-2-methylph...	15.609	198	576	0.334	ng	95
21) 4-Bromophenyl-phenylether	16.429	248	4671	0.385	ng	# 84
22) Hexachlorobenzene	16.540	284	5435	0.389	ng	99
23) Atrazine	16.689	200	2899	0.375	ng	# 92
24) Pentachlorophenol	16.888	266	1908	0.471	ng	98
25) Phenanthrene	17.273	178	22675	0.387	ng	100
26) Anthracene	17.360	178	19975	0.385	ng	99
28) Fluoranthene	19.294	202	24904	0.387	ng	99
30) Pyrene	19.657	202	24982	0.380	ng	100
32) Benzo(a)anthracene	21.393	228	22983	0.392	ng	100
33) Chrysene	21.447	228	24936	0.397	ng	99
34) Bis(2-ethylhexyl)phtha...	21.340	149	7755	0.446	ng	99
36) Indeno(1,2,3-cd)pyrene	26.124	276	32683	0.431	ng	99
37) Benzo(b)fluoranthene	23.037	252	27058	0.381	ng	99
38) Benzo(k)fluoranthene	23.084	252	28281	0.390	ng	99
39) Benzo(a)pyrene	23.639	252	21959	0.386	ng	98
40) Dibenzo(a,h)anthracene	26.142	278	26135	0.432	ng	97
41) Benzo(g,h,i)perylene	26.852	276	27338	0.403	ng	97

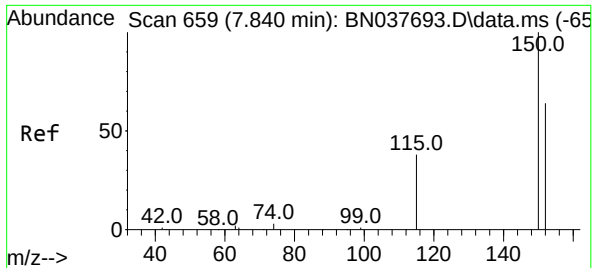
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037759.D
Acq On : 18 Sep 2025 02:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 18 05:02:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

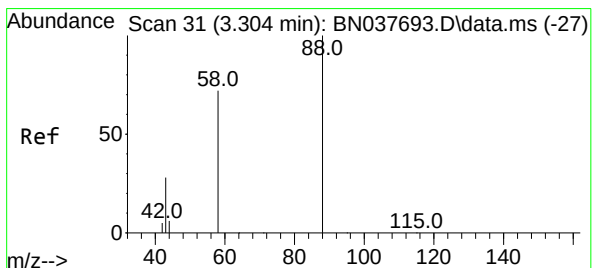
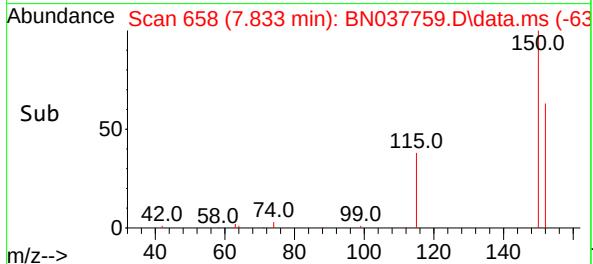
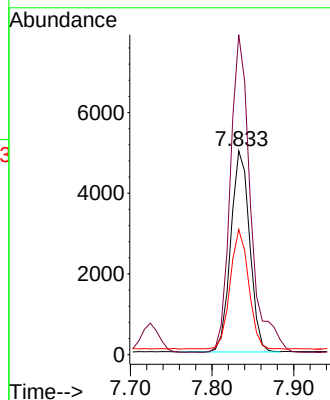
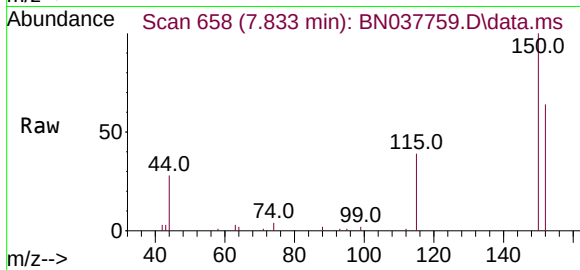




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

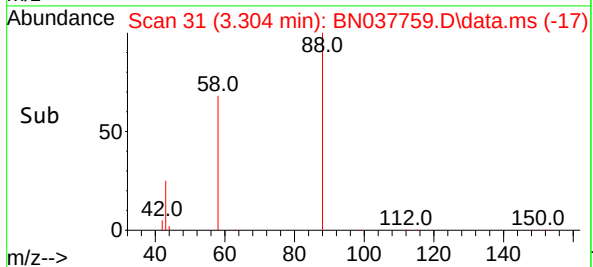
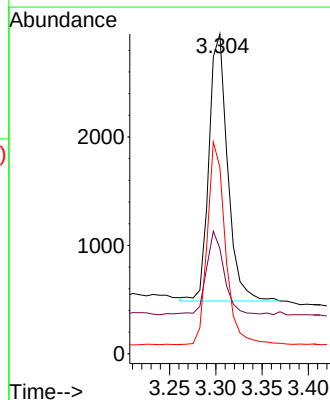
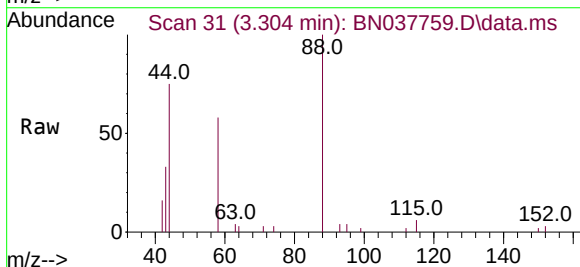
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

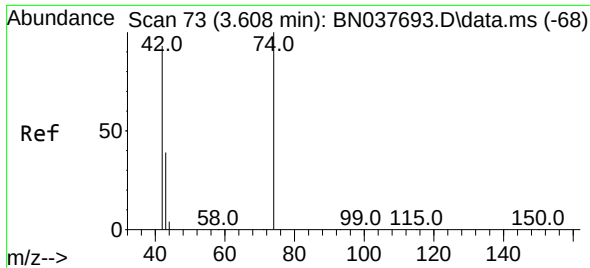
Tgt Ion:152 Resp: 8012
Ion Ratio Lower Upper
152 100
150 157.1 124.5 186.7
115 61.4 49.2 73.8



#2
1,4-Dioxane
Concen: 0.415 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion: 88 Resp: 3460
Ion Ratio Lower Upper
88 100
43 29.8 26.8 40.2
58 73.4 61.9 92.9

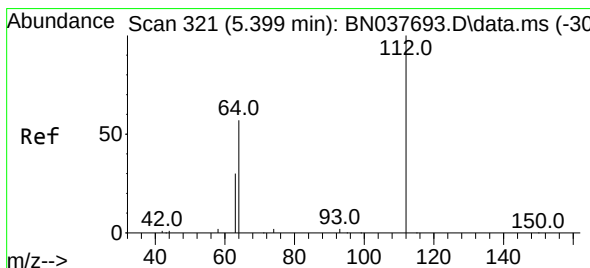
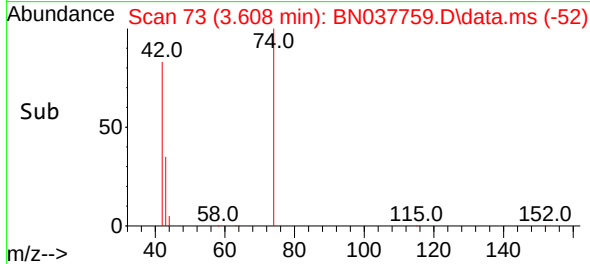
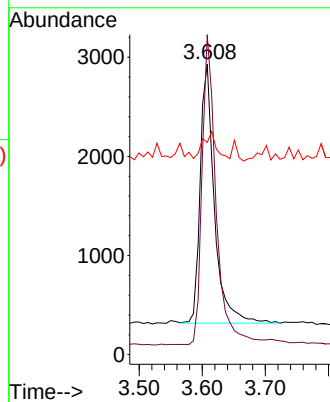
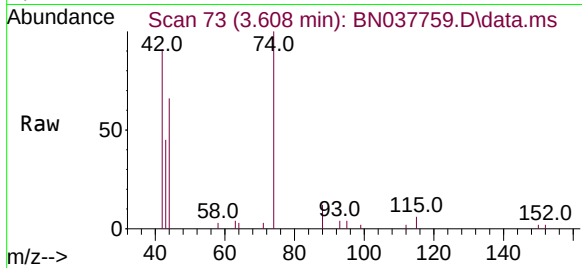




#3
n-Nitrosodimethylamine
Concen: 0.376 ng
RT: 3.608 min Scan# 73
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

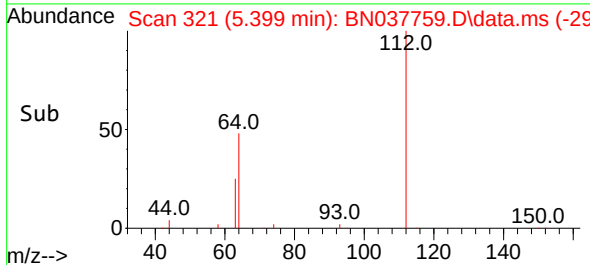
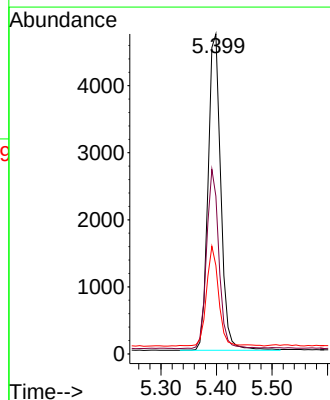
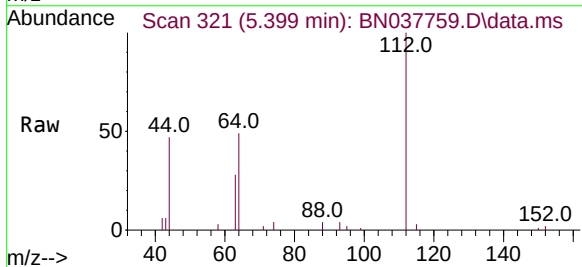
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

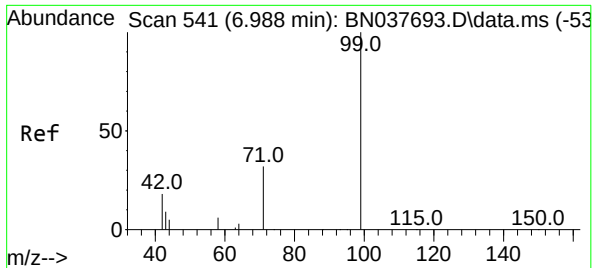
Tgt Ion: 42 Resp: 4100
Ion Ratio Lower Upper
42 100
74 117.7 86.0 129.0
44 9.8 8.4 12.6



#4
2-Fluorophenol
Concen: 0.409 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion: 112 Resp: 7521
Ion Ratio Lower Upper
112 100
64 54.9 44.9 67.3
63 29.9 24.7 37.1

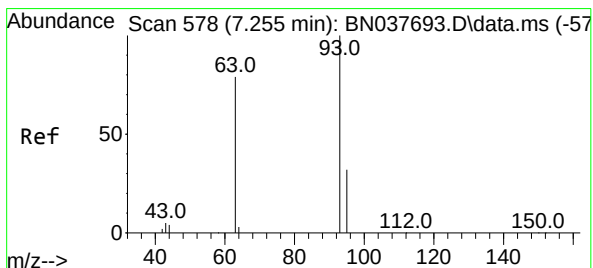
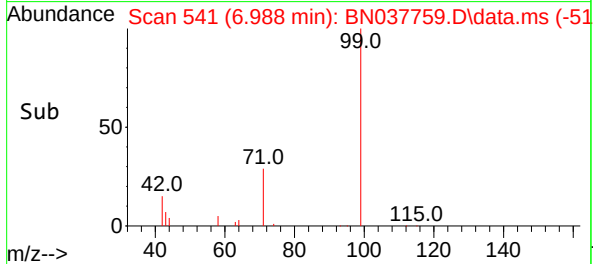
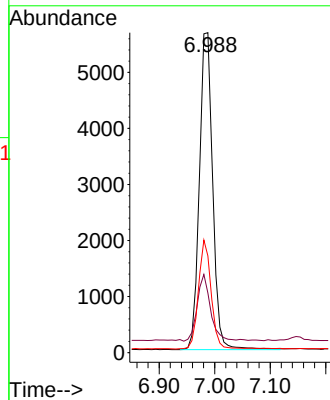
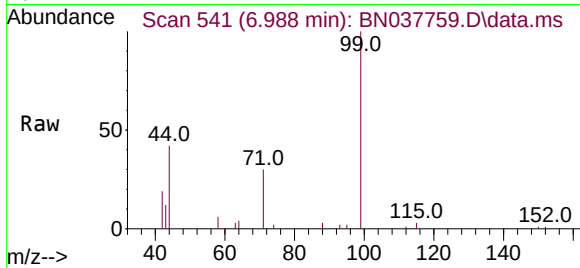




#5
Phenol-d6
Concen: 0.396 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

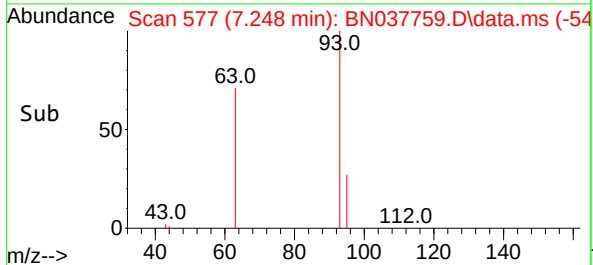
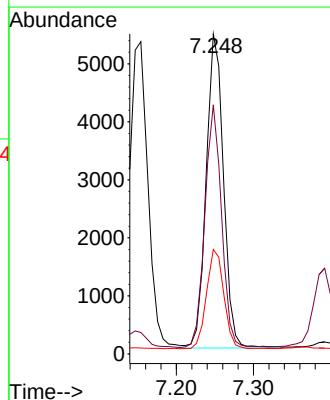
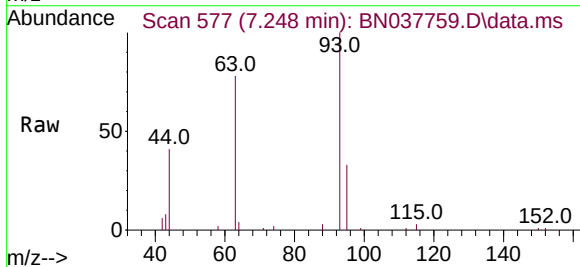
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

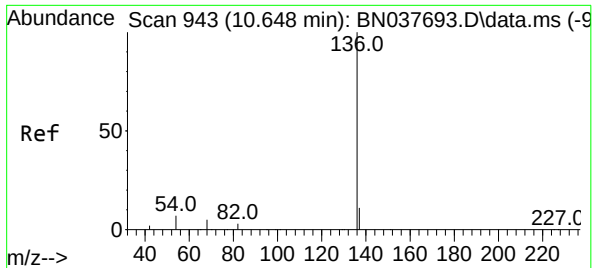
Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.0	16.6	24.8
71	32.7	26.7	40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.397 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion	Ratio	Lower	Upper
93	100		
63	74.5	60.6	90.8
95	31.6	26.0	39.0

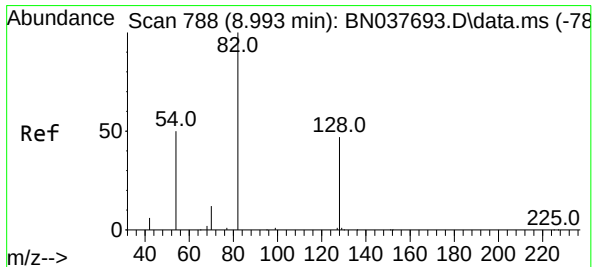
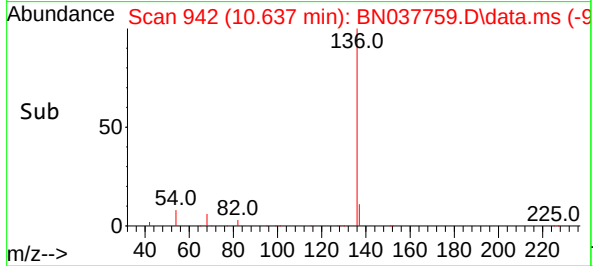
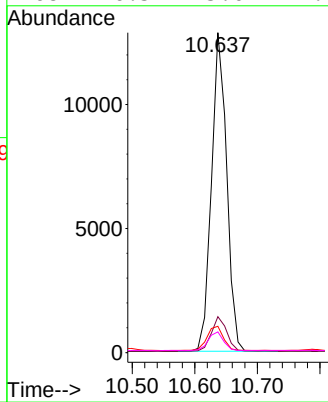
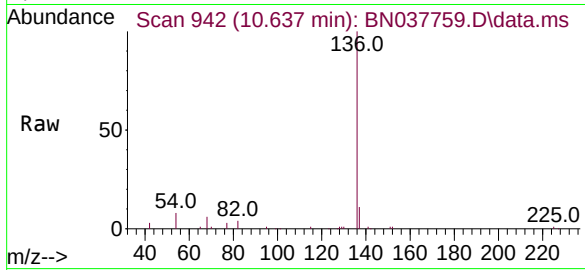




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

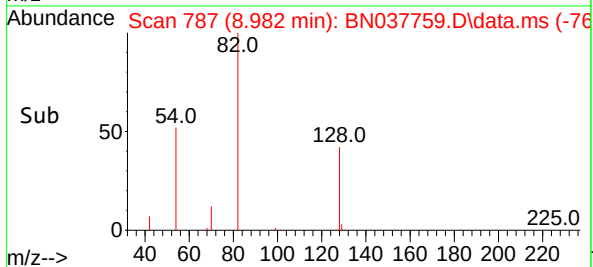
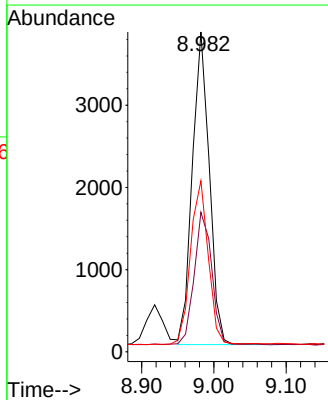
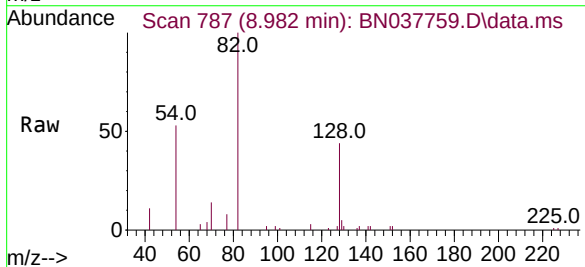
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

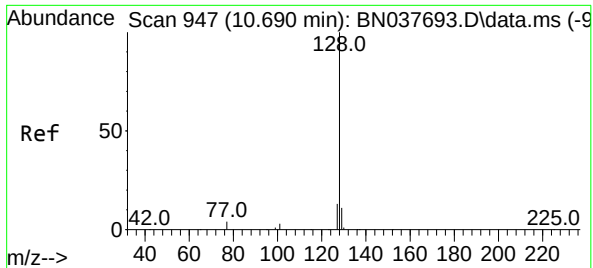
Tgt Ion:	136	Resp:	21664
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.1	13.7
54	8.2	6.3	9.5
68	6.5	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.391 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:	82	Resp:	6195
Ion Ratio	Lower	Upper	
82	100		
128	43.6	38.3	57.5
54	53.5	41.4	62.2

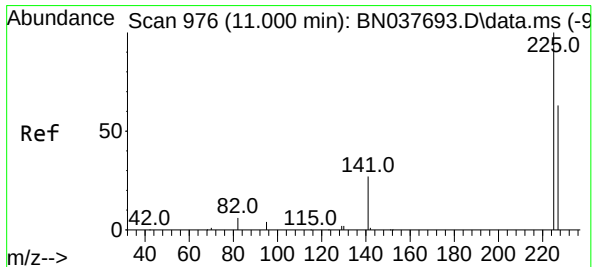
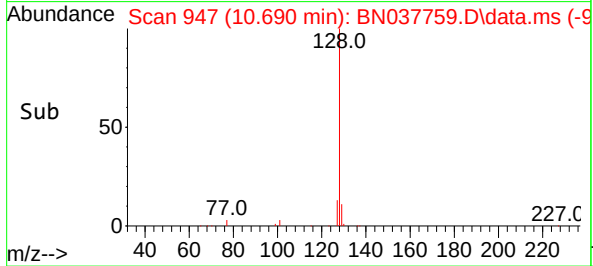
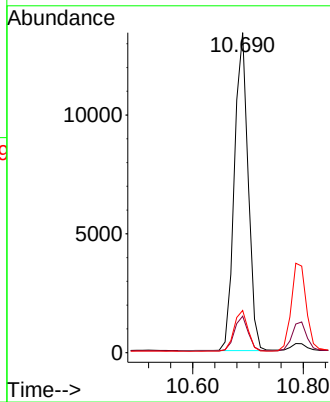
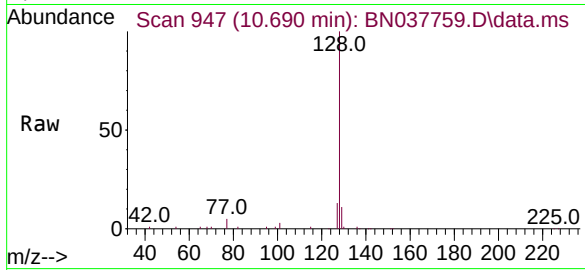




#9
Naphthalene
Concen: 0.389 ng
RT: 10.690 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

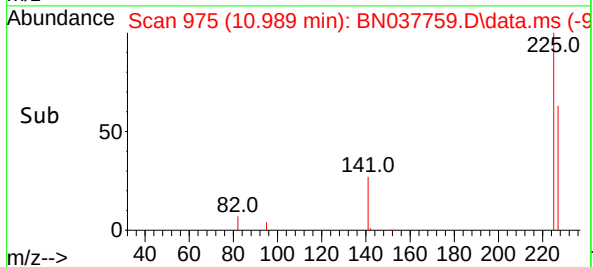
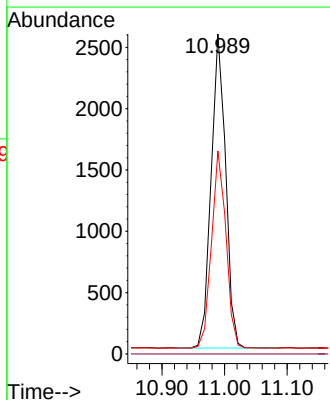
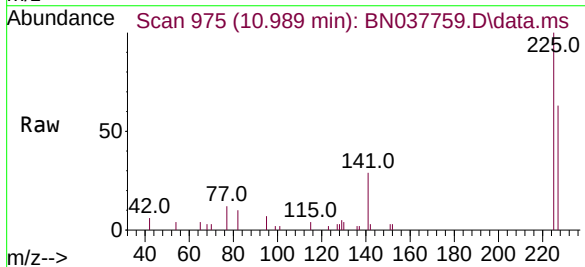
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

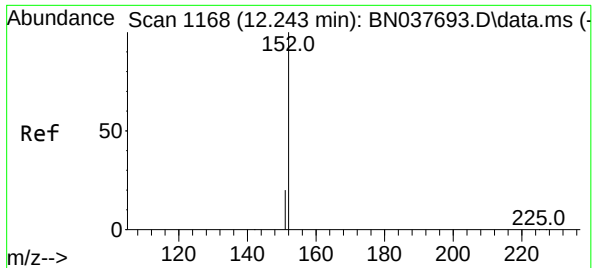
Tgt Ion:	128	Resp:	23012
Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.1	13.7
127	13.2	10.9	16.3



#10
Hexachlorobutadiene
Concen: 0.385 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:	225	Resp:	4127
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.6	50.9	76.3

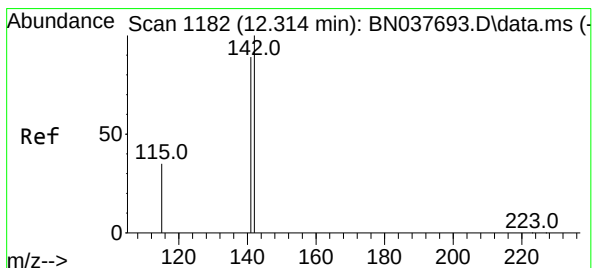
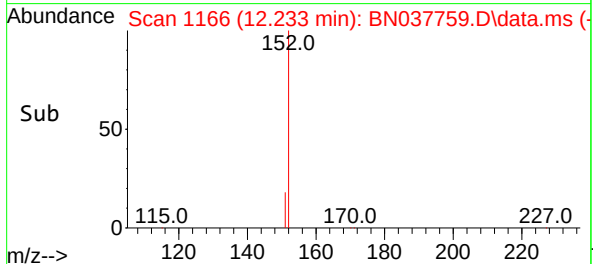
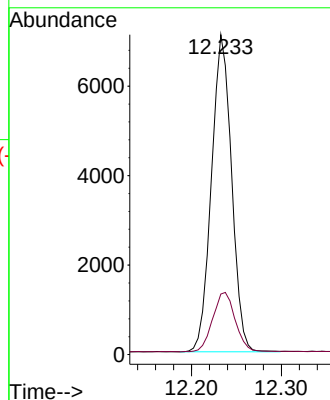
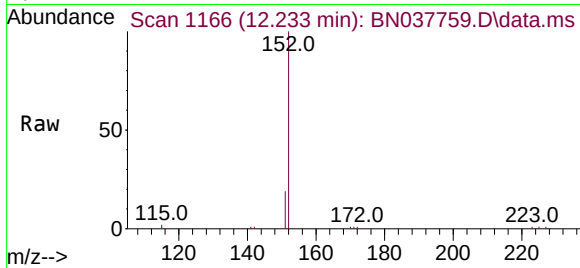




#11
2-Methylnaphthalene-d10
Concen: 0.386 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

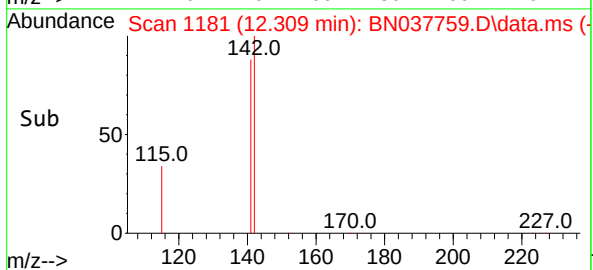
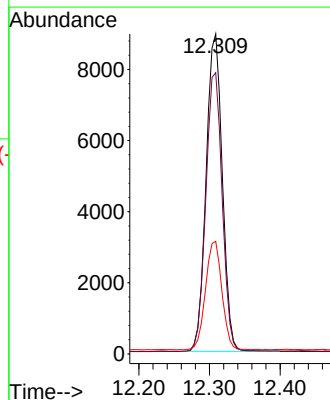
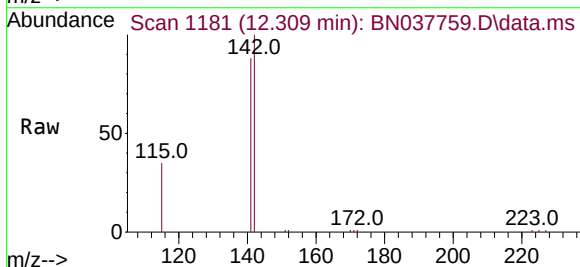
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

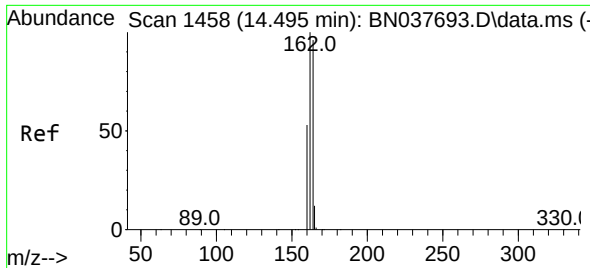
Tgt Ion:152 Resp: 11065
Ion Ratio Lower Upper
152 100
151 20.9 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.389 ng
RT: 12.309 min Scan# 1181
Delta R.T. -0.005 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:142 Resp: 14242
Ion Ratio Lower Upper
142 100
141 87.9 71.6 107.4
115 35.2 28.6 43.0

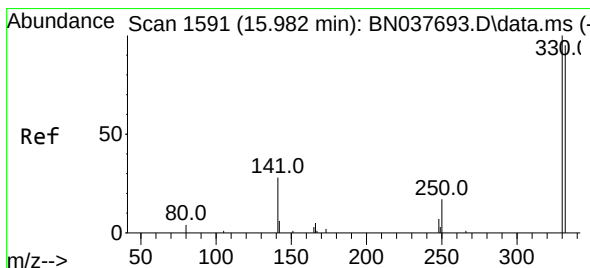
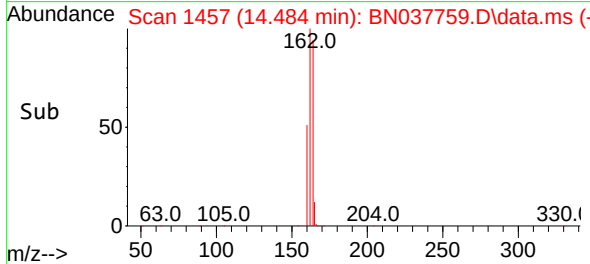
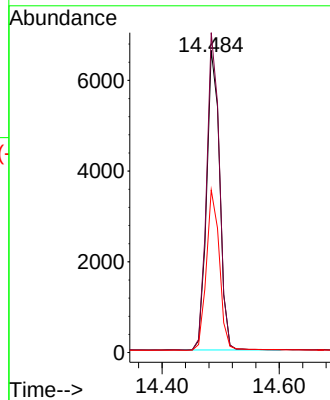
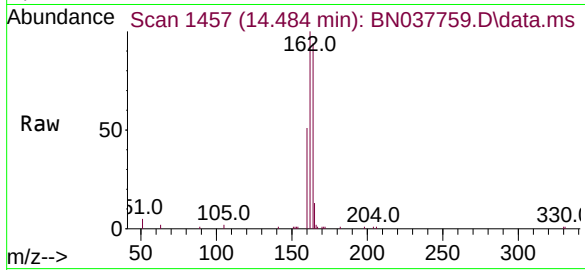




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

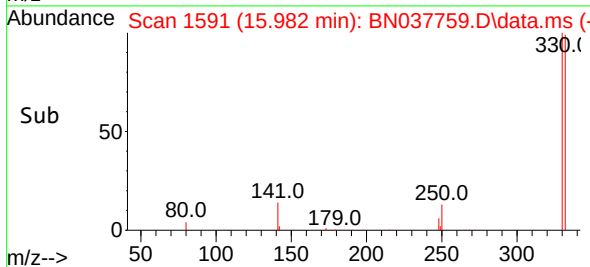
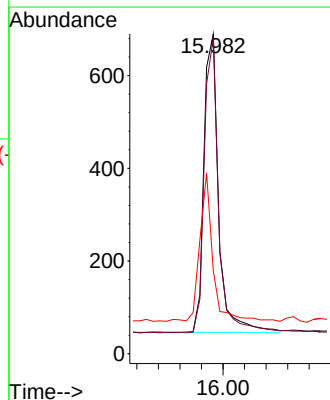
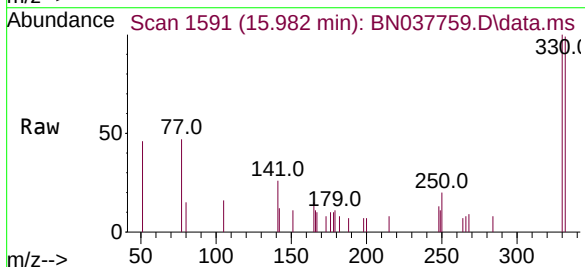
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

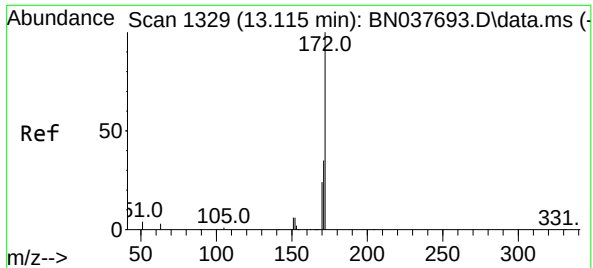
Tgt Ion:164 Resp: 10192
Ion Ratio Lower Upper
164 100
162 105.9 83.1 124.7
160 53.8 44.3 66.5



#14
2,4,6-Tribromophenol
Concen: 0.460 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:330 Resp: 1222
Ion Ratio Lower Upper
330 100
332 96.4 75.3 112.9
141 43.6 35.0 52.4

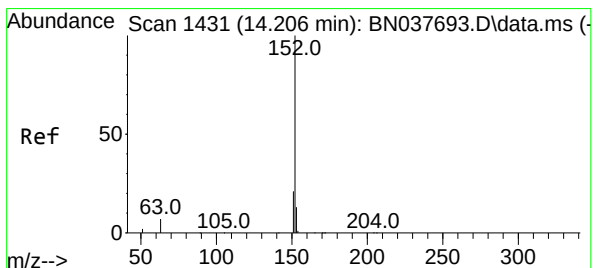
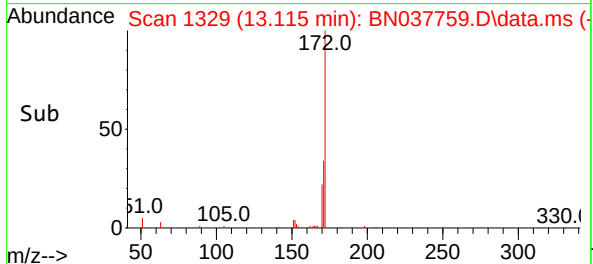
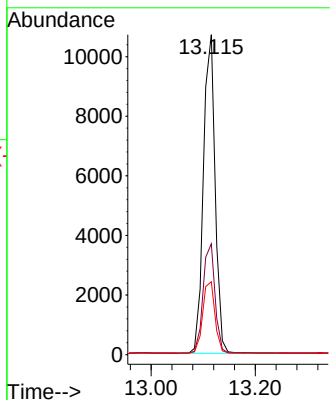
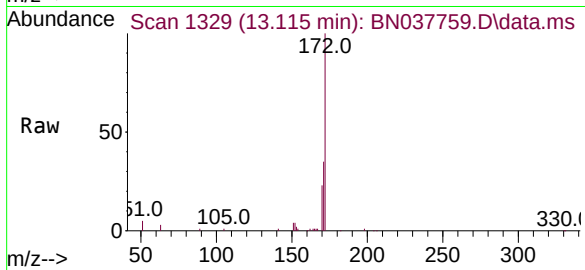




#15
2-Fluorobiphenyl
Concen: 0.393 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

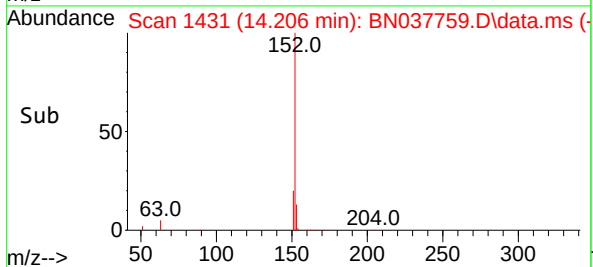
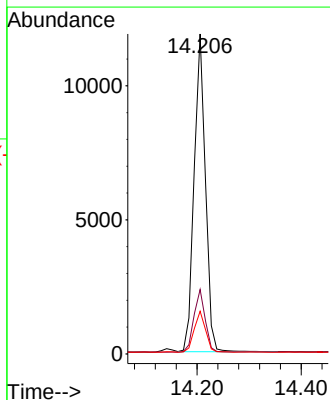
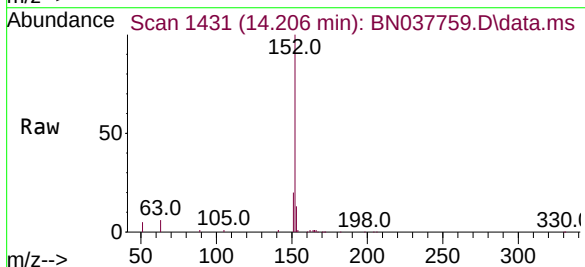
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

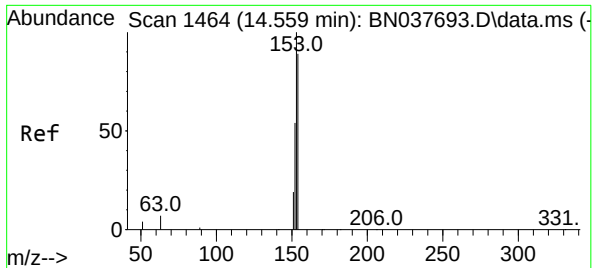
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.6	28.6	43.0
170	22.8	19.8	29.8



#16
Acenaphthylene
Concen: 0.380 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.2
153	12.9	10.4	15.6

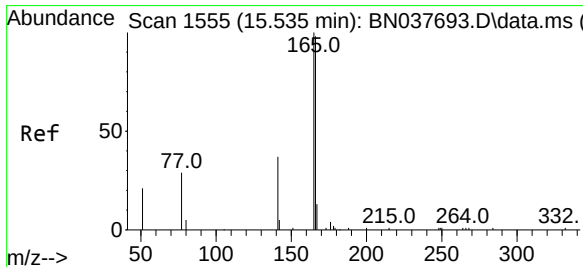
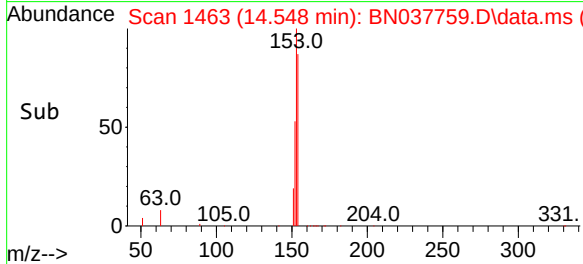
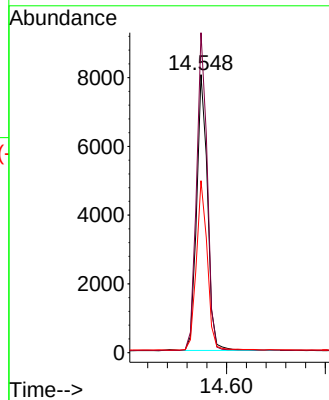
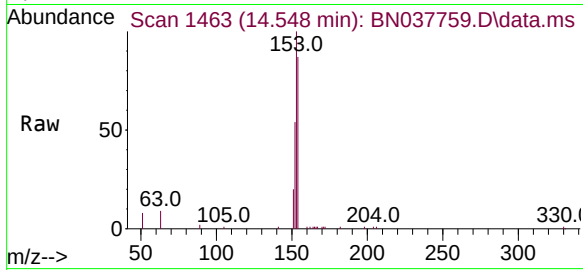




#17
Acenaphthene
Concen: 0.388 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

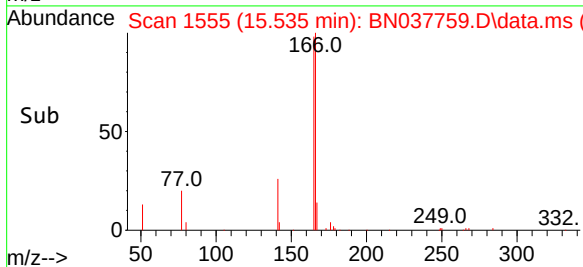
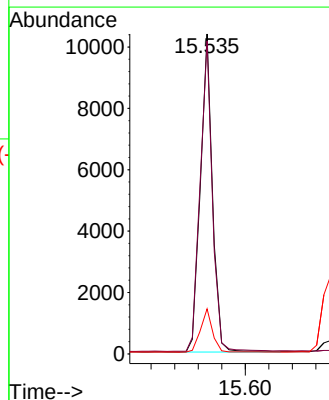
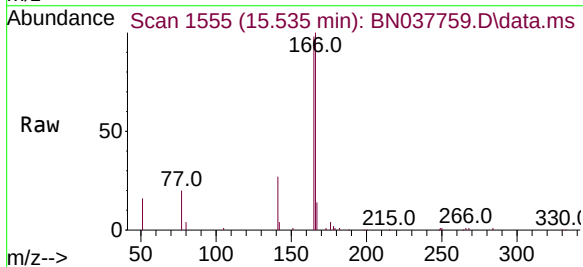
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

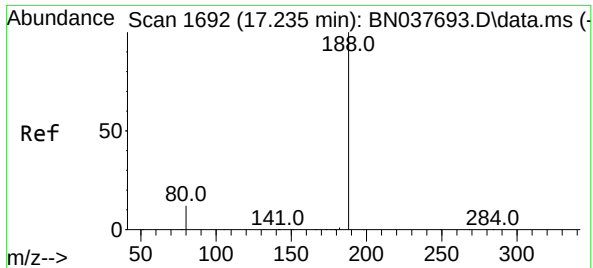
Tgt Ion:154 Resp: 12273
Ion Ratio Lower Upper
154 100
153 112.9 89.8 134.8
152 61.6 50.2 75.2



#18
Fluorene
Concen: 0.378 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:166 Resp: 14482
Ion Ratio Lower Upper
166 100
165 98.0 79.6 119.4
167 13.5 10.6 16.0

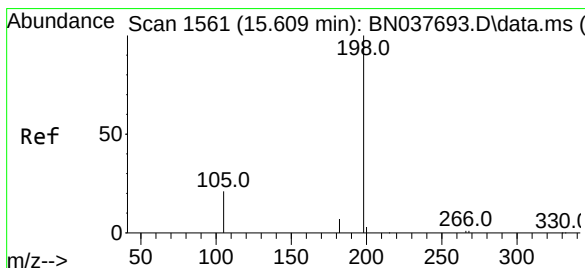
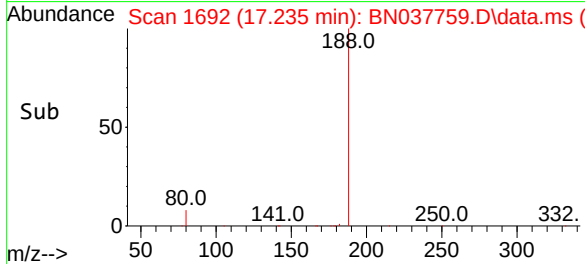
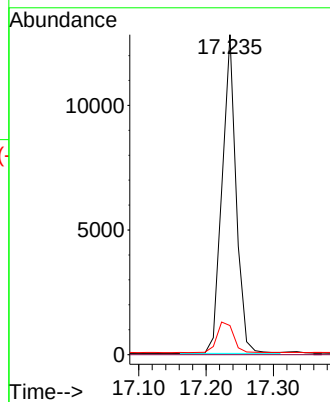
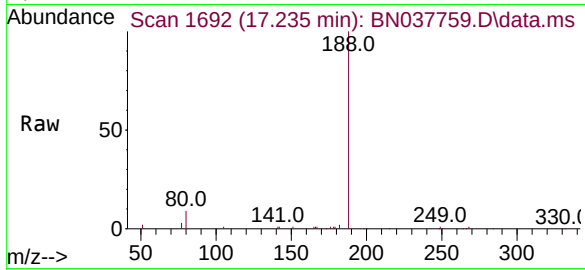




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

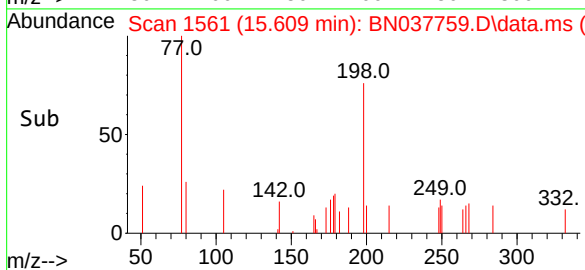
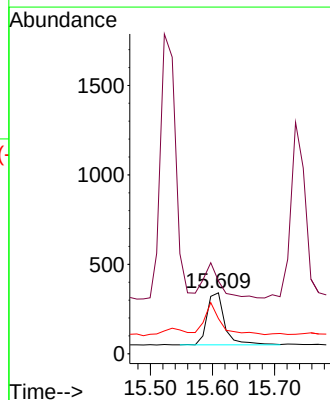
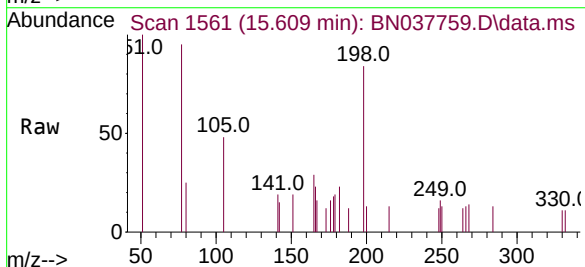
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

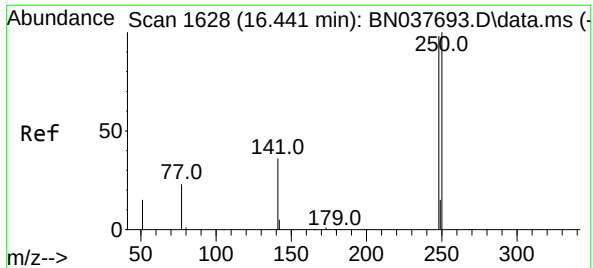
Tgt Ion:188	Resp:	18613
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	9.1	15.8



#20
4,6-Dinitro-2-methylphenol
Concen: 0.334 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:198	Resp:	576
Ion Ratio	Lower	Upper
198	100	
51	119.4	95.1
105	57.8	80.6

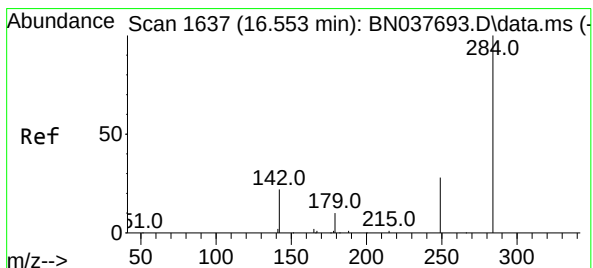
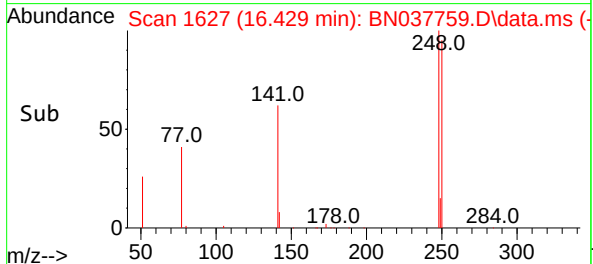
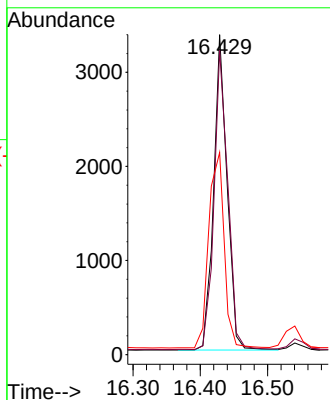
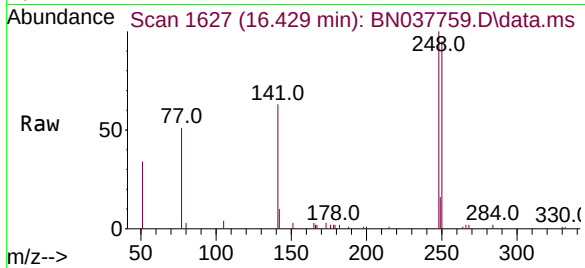




#21
4-Bromophenyl-phenylether
Concen: 0.385 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.012 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

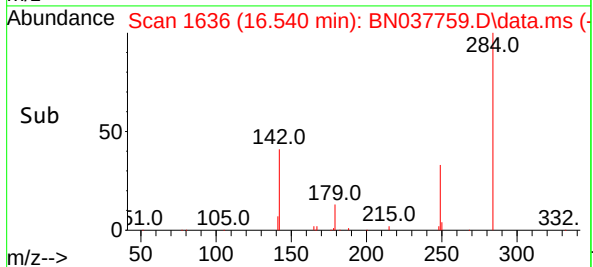
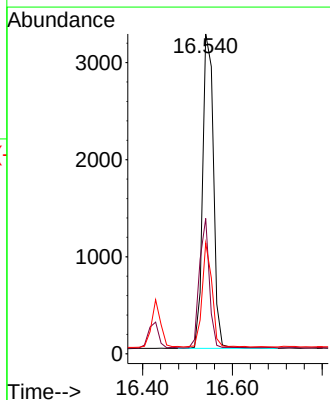
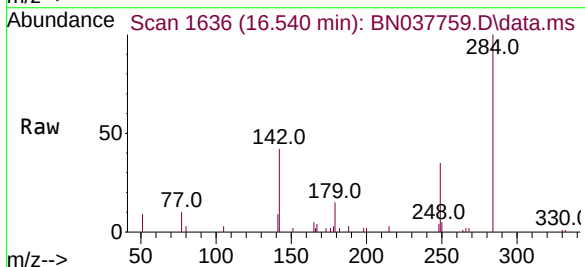
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

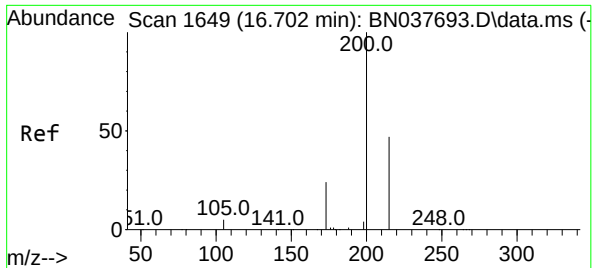
Tgt Ion	Ratio	Lower	Upper
248	100		
250	95.1	81.5	122.3
141	63.2	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.389 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.7	30.9	46.3
249	30.2	24.8	37.2

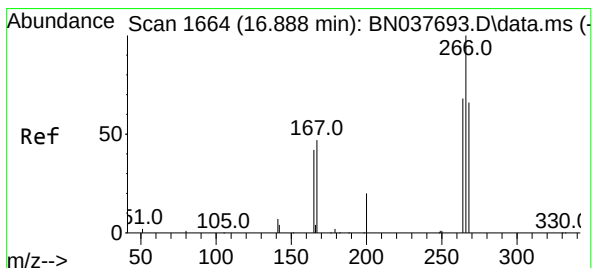
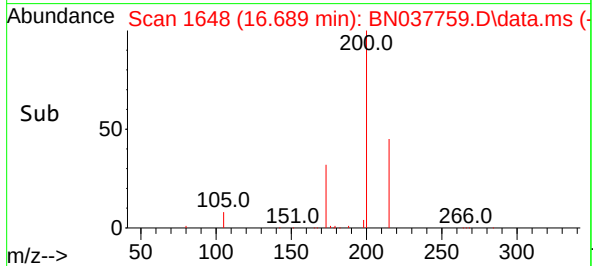
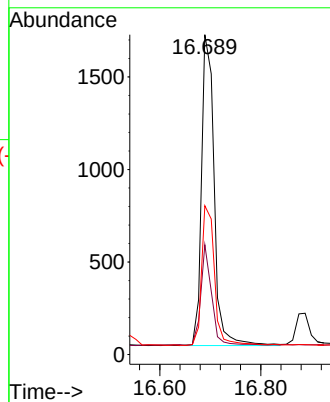
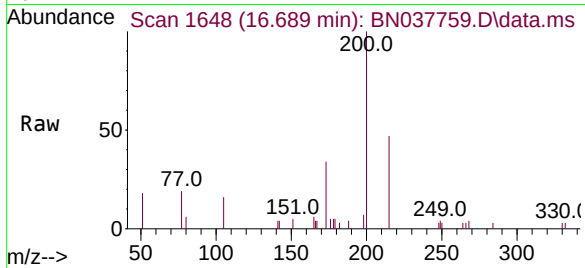




#23
Atrazine
Concen: 0.375 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.012 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

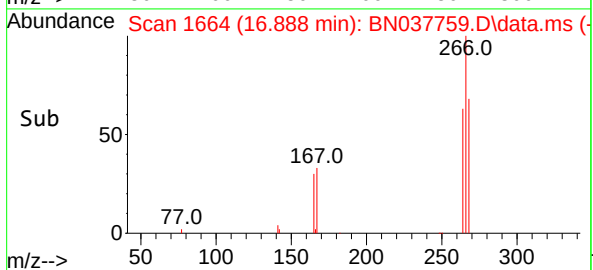
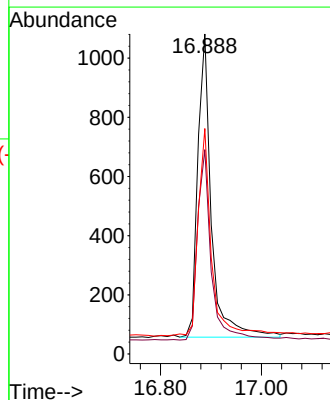
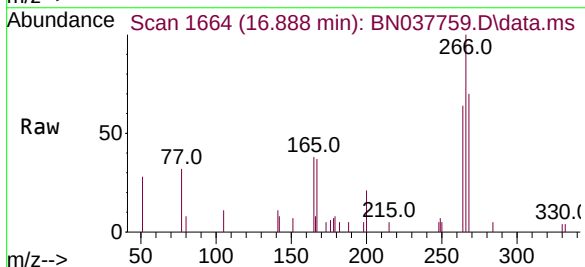
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

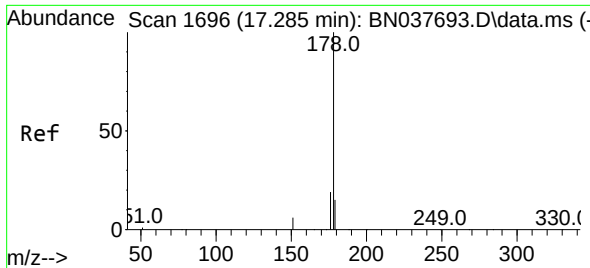
Tgt Ion:200 Resp: 2899
Ion Ratio Lower Upper
200 100
173 34.3 21.4 32.2#
215 46.5 39.2 58.8



#24
Pentachlorophenol
Concen: 0.471 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:266 Resp: 1908
Ion Ratio Lower Upper
266 100
264 63.5 51.6 77.4
268 68.8 53.2 79.8

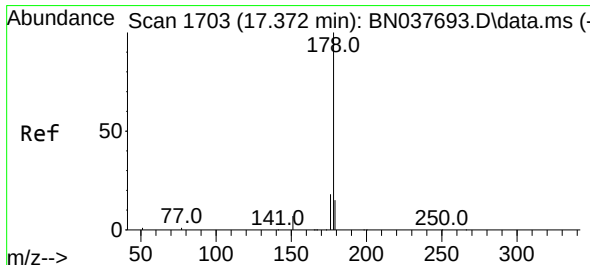
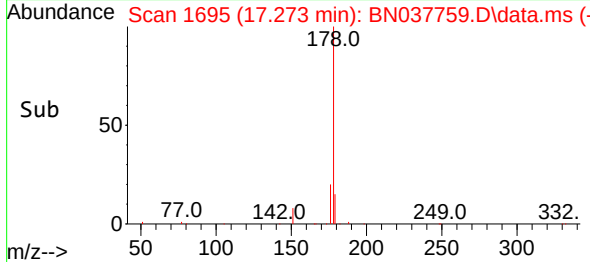
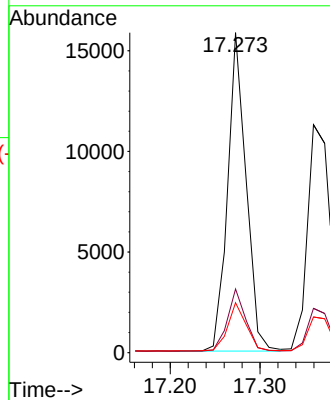
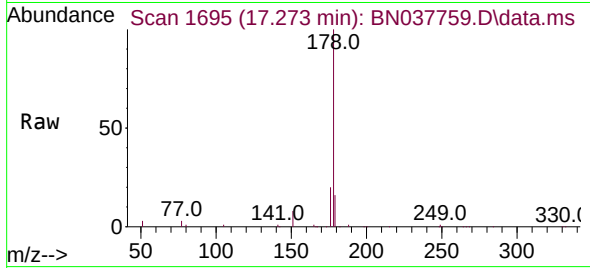




#25
Phenanthrene
Concen: 0.387 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.012 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

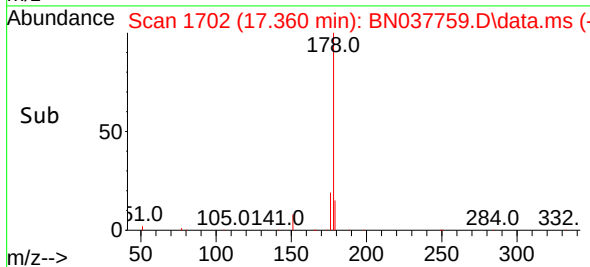
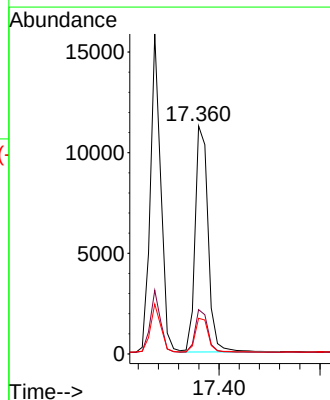
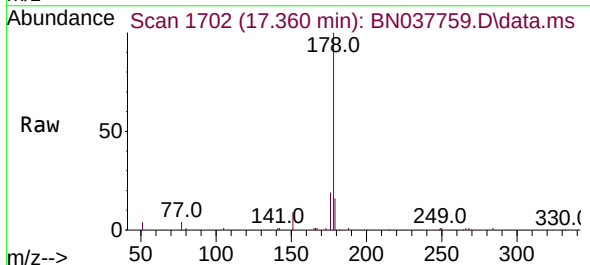
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

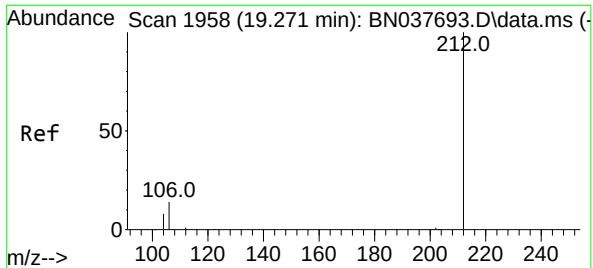
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.3	22.9
179	15.5	12.2	18.2



#26
Anthracene
Concen: 0.385 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.6	22.0
179	15.5	12.2	18.4





#27

Fluoranthene-d10

Concen: 0.378 ng

RT: 19.267 min Scan# 1958

Delta R.T. -0.005 min

Lab File: BN037759.D

Acq: 18 Sep 2025 02:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

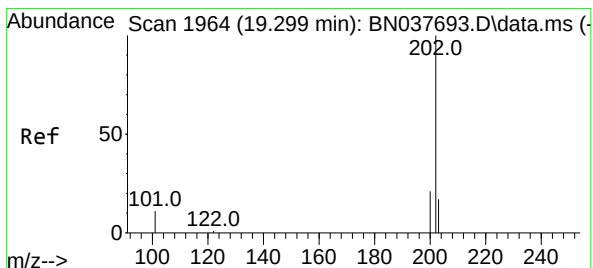
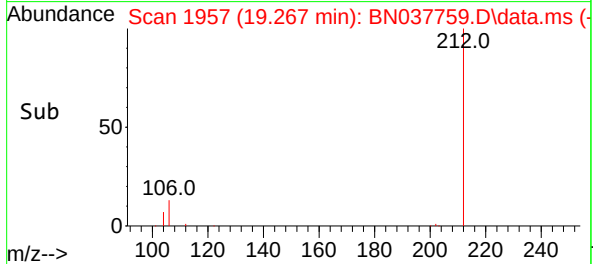
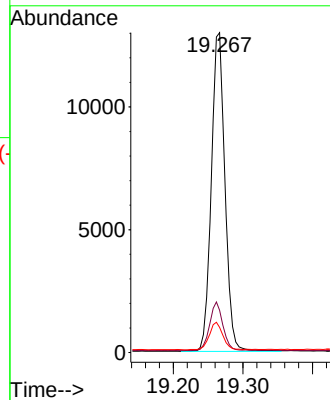
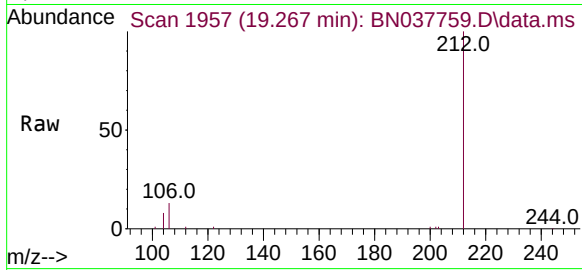
Tgt Ion:212 Resp: 17669

Ion Ratio Lower Upper

212 100

106 14.8 12.2 18.2

104 8.6 6.9 10.3



#28

Fluoranthene

Concen: 0.387 ng

RT: 19.294 min Scan# 1963

Delta R.T. -0.005 min

Lab File: BN037759.D

Acq: 18 Sep 2025 02:46

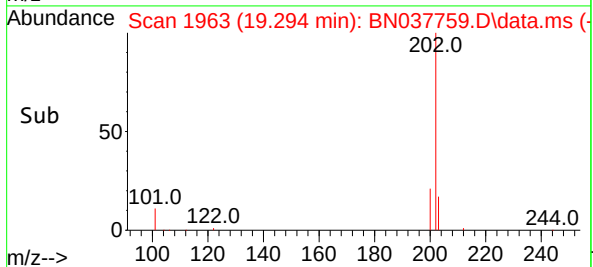
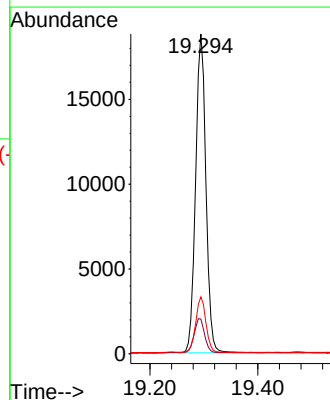
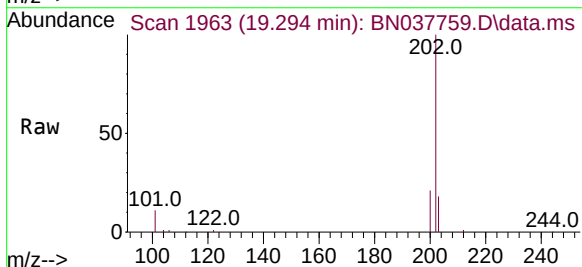
Tgt Ion:202 Resp: 24904

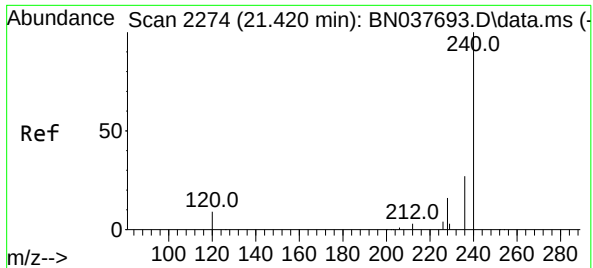
Ion Ratio Lower Upper

202 100

101 11.1 9.3 13.9

203 17.2 13.7 20.5

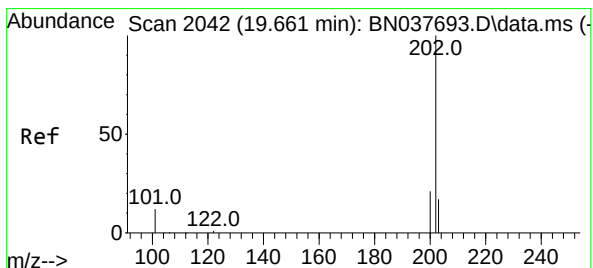
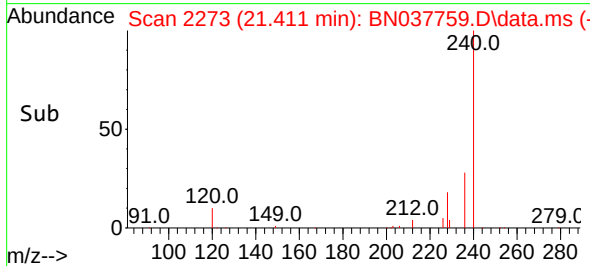
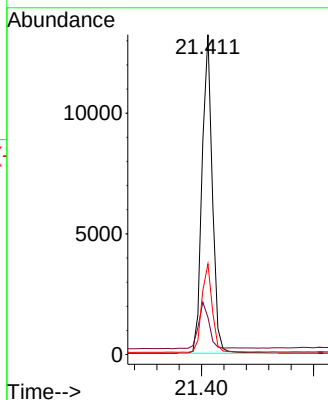
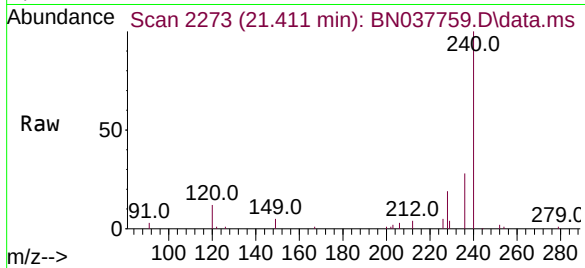




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

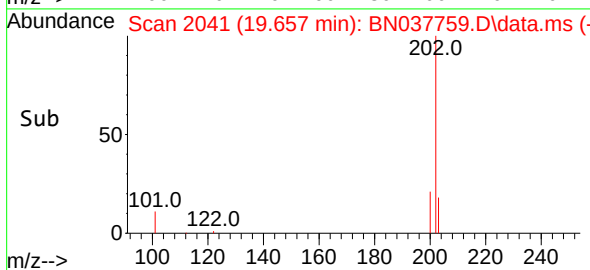
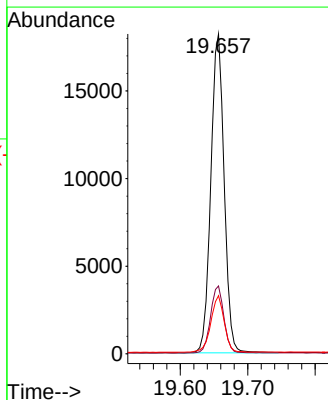
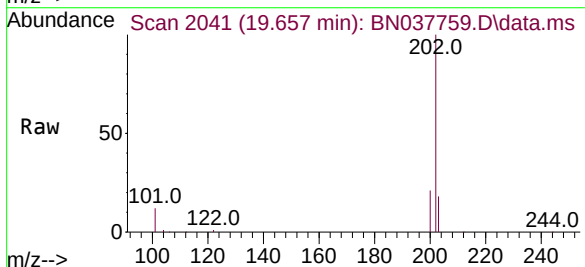
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

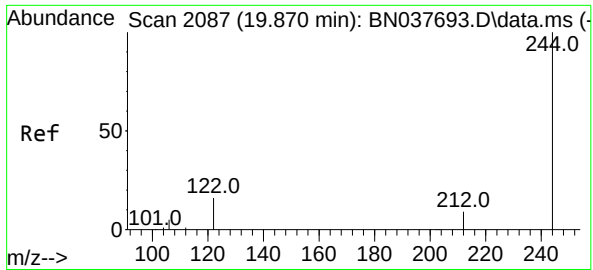
Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.6	9.2	13.8
236	28.4	22.6	33.8



#30
Pyrene
Concen: 0.380 ng
RT: 19.657 min Scan# 2041
Delta R.T. -0.005 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.8	25.2
203	17.8	14.3	21.5

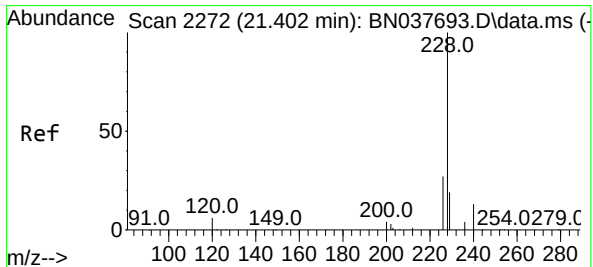
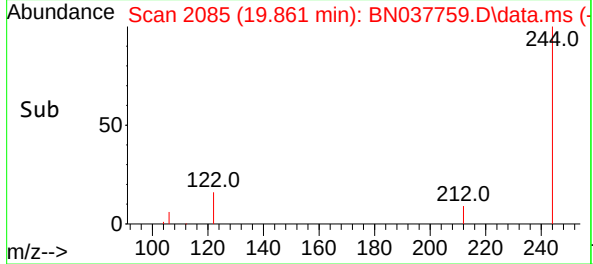
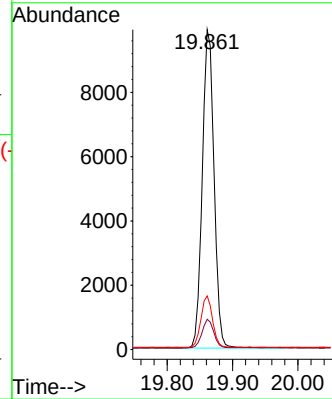
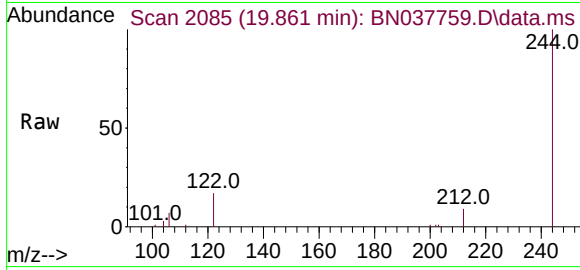




#31
Terphenyl-d14
Concen: 0.362 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

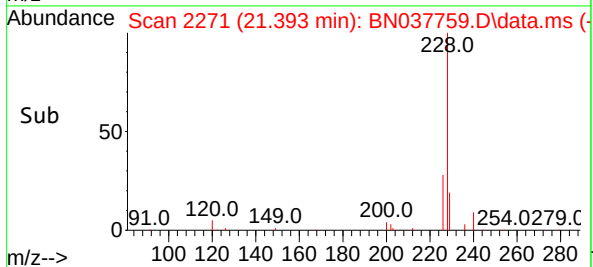
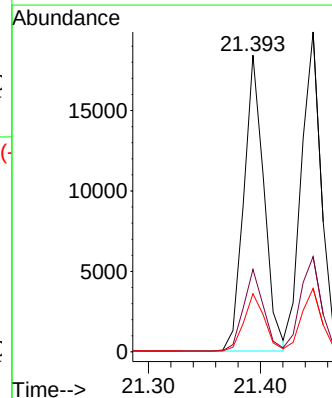
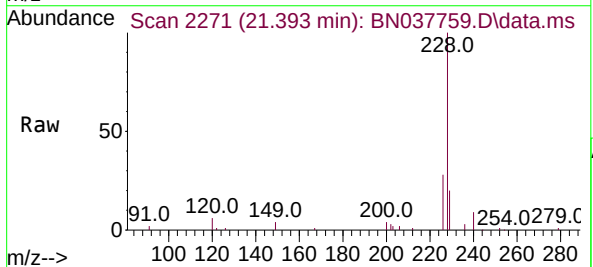
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

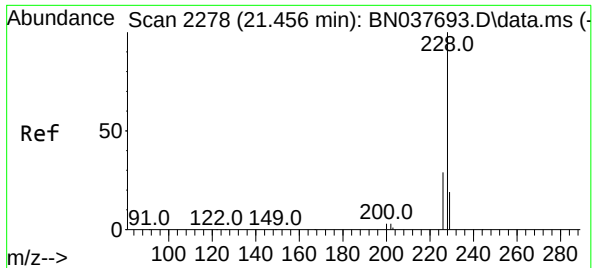
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.5	11.3
122	16.8	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.392 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.2	33.2
229	19.6	15.8	23.6





#33

Chrysene

Concen: 0.397 ng

RT: 21.447 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037759.D

Acq: 18 Sep 2025 02:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

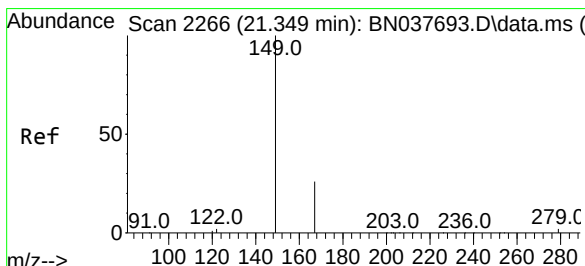
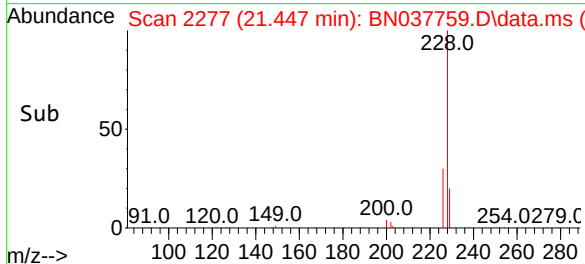
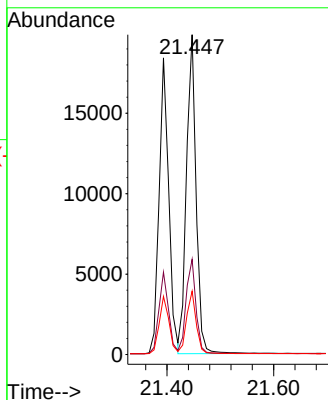
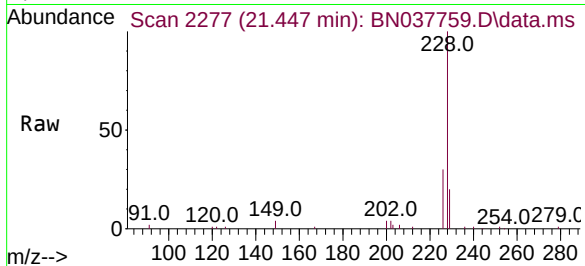
Tgt Ion:228 Resp: 24936

Ion Ratio Lower Upper

228 100

226 29.8 23.5 35.3

229 19.8 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.446 ng

RT: 21.340 min Scan# 2265

Delta R.T. -0.009 min

Lab File: BN037759.D

Acq: 18 Sep 2025 02:46

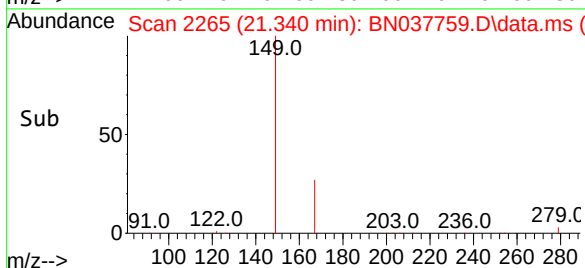
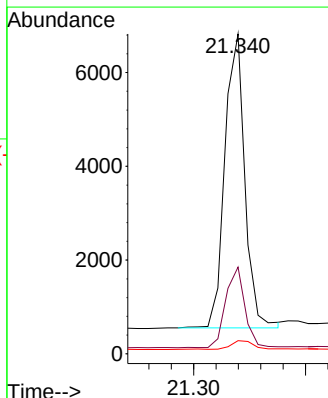
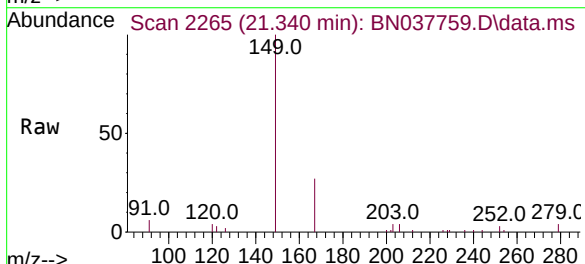
Tgt Ion:149 Resp: 7755

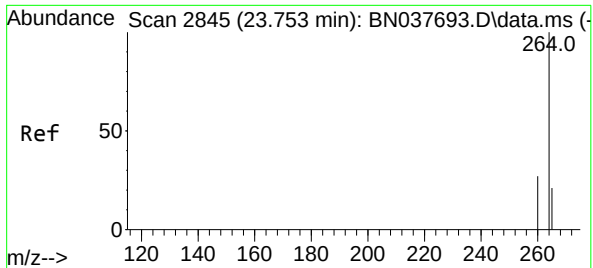
Ion Ratio Lower Upper

149 100

167 26.5 20.8 31.2

279 3.3 3.3 4.9

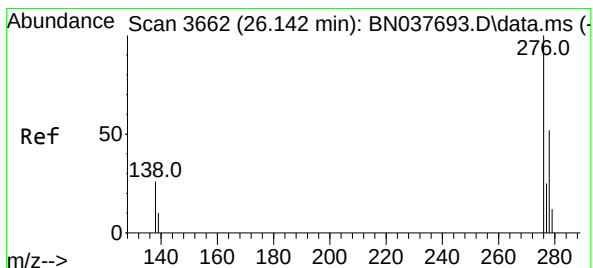
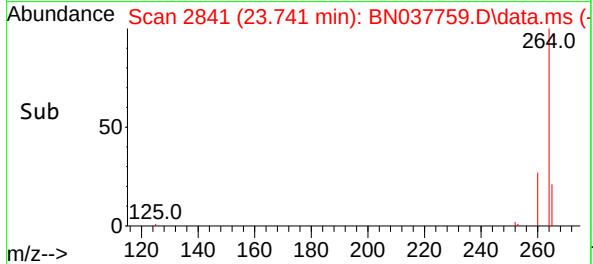
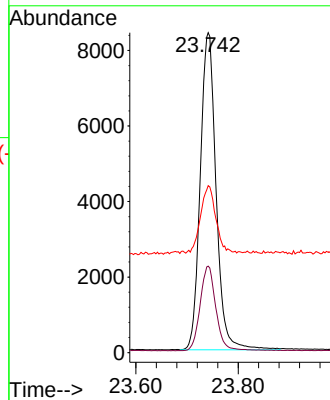
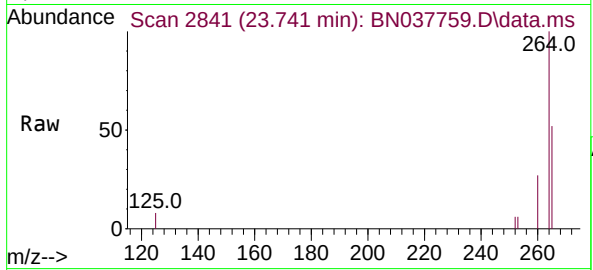




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.741 min Scan# 2841
Delta R.T. -0.012 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

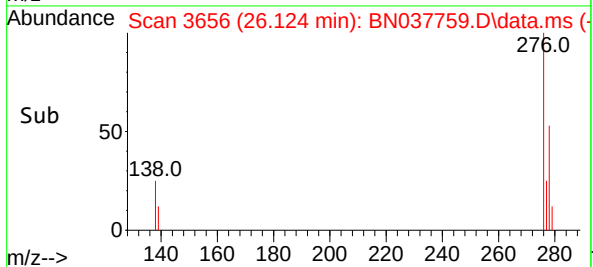
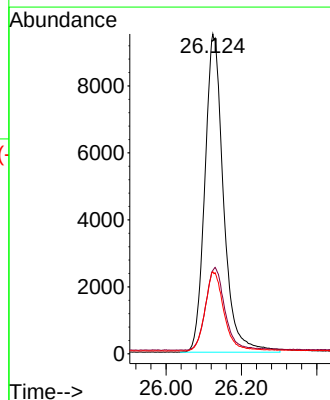
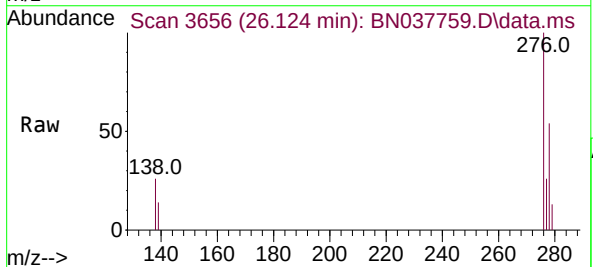
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

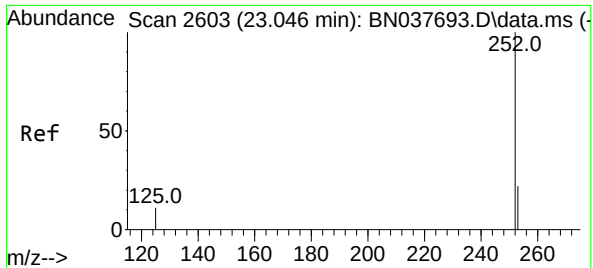
Tgt Ion:264 Resp: 18043
Ion Ratio Lower Upper
264 100
260 27.0 21.8 32.8
265 52.2 39.4 59.2



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.431 ng
RT: 26.124 min Scan# 3656
Delta R.T. -0.018 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:276 Resp: 32683
Ion Ratio Lower Upper
276 100
138 26.2 21.9 32.9
277 25.0 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.381 ng

RT: 23.037 min Scan# 2600

Delta R.T. -0.009 min

Lab File: BN037759.D

Acq: 18 Sep 2025 02:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

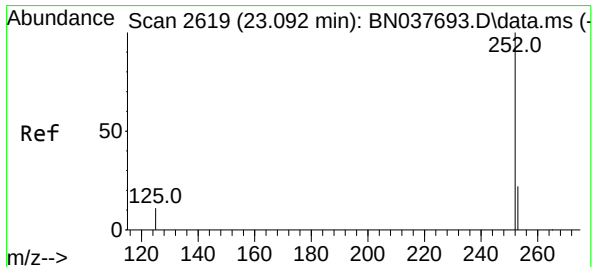
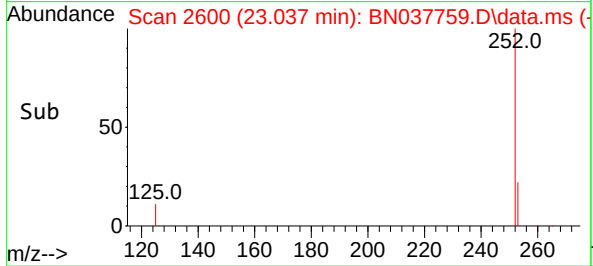
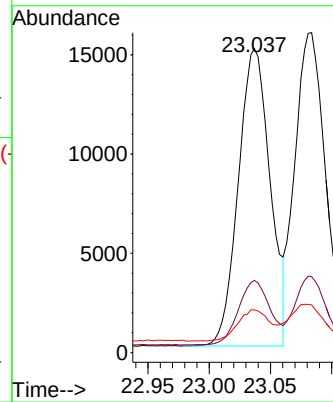
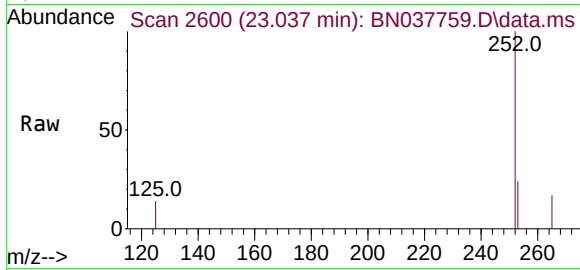
Tgt Ion:252 Resp: 27058

Ion Ratio Lower Upper

252 100

253 23.8 19.4 29.2

125 14.0 11.2 16.8



#38

Benzo(k)fluoranthene

Concen: 0.390 ng

RT: 23.084 min Scan# 2616

Delta R.T. -0.009 min

Lab File: BN037759.D

Acq: 18 Sep 2025 02:46

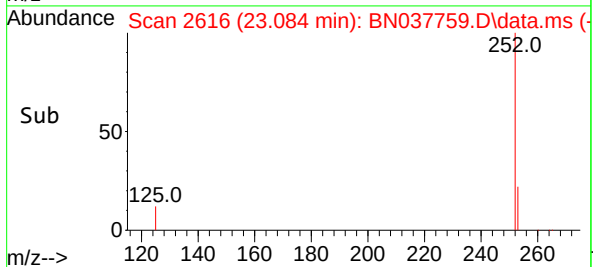
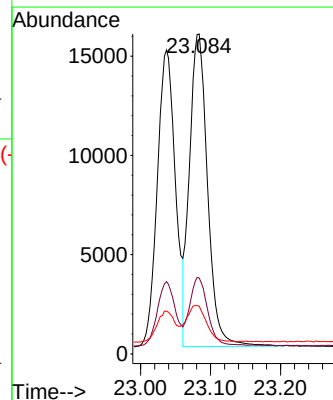
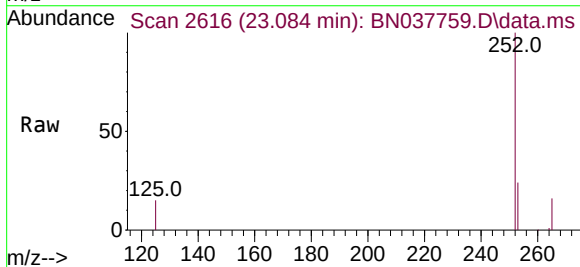
Tgt Ion:252 Resp: 28281

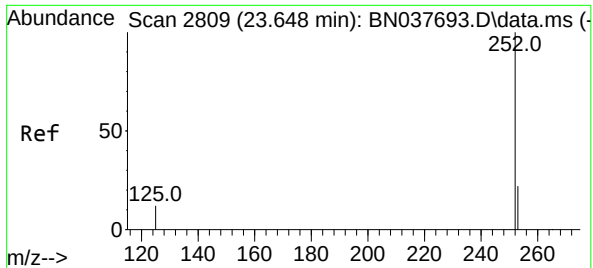
Ion Ratio Lower Upper

252 100

253 23.7 19.4 29.0

125 14.9 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.386 ng

RT: 23.639 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037759.D

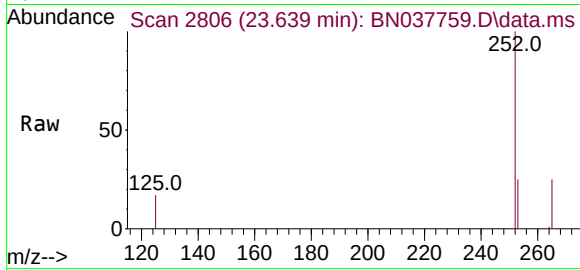
Acq: 18 Sep 2025 02:46

Instrument :

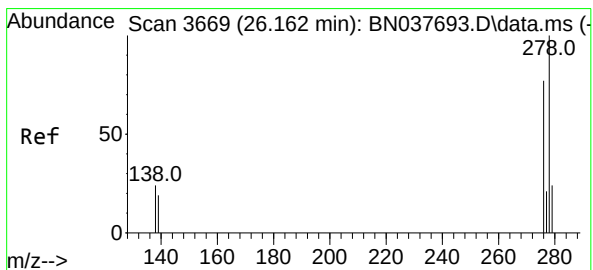
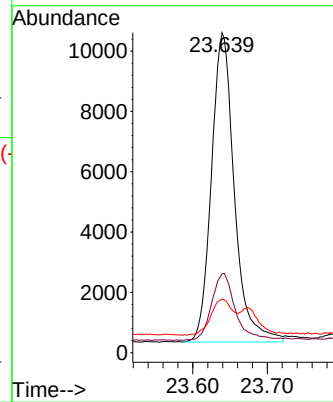
BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:	252	Resp:	21959
Ion Ratio	Lower	Upper	
252	100		
253	24.6	20.8	31.2
125	16.8	13.9	20.9



#40

Dibenzo(a,h)anthracene

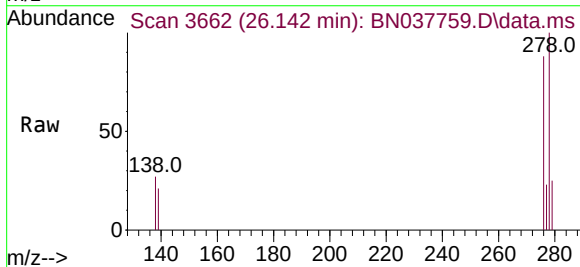
Concen: 0.432 ng

RT: 26.142 min Scan# 3662

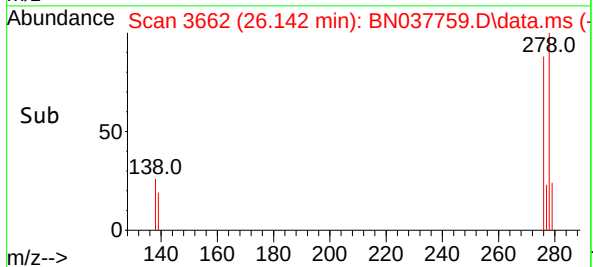
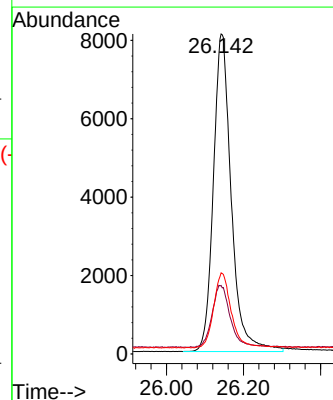
Delta R.T. -0.020 min

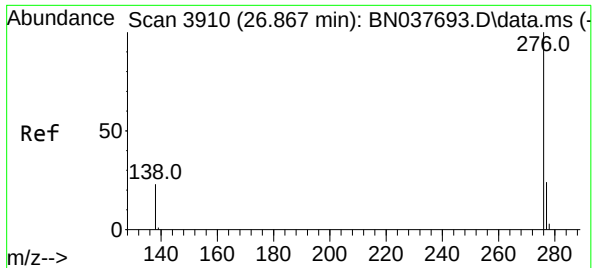
Lab File: BN037759.D

Acq: 18 Sep 2025 02:46



Tgt Ion:	278	Resp:	26135
Ion Ratio	Lower	Upper	
278	100		
139	21.4	17.8	26.6
279	25.3	22.0	33.0





#41

Benzo(g,h,i)perylene

Concen: 0.403 ng

RT: 26.852 min Scan# 3910

Delta R.T. -0.015 min

Lab File: BN037759.D

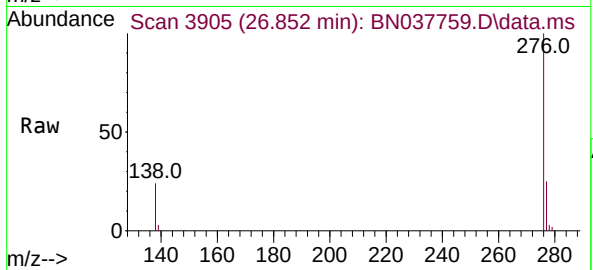
Acq: 18 Sep 2025 02:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



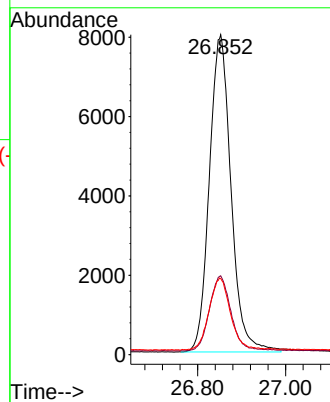
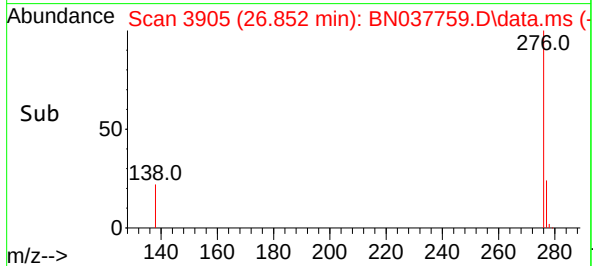
Tgt Ion:276 Resp: 27338

Ion Ratio Lower Upper

276 100

277 24.6 20.6 31.0

138 23.8 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
 Data File : BN037759.D
 Acq On : 18 Sep 2025 02:46
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 18 05:02:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	160#	0.00
2	1,4-Dioxane	0.417	0.432	-3.6	164#	0.00
3	n-Nitrosodimethylamine	0.544	0.512	5.9	146	0.00
4 S	2-Fluorophenol	0.918	0.939	-2.3	169#	0.00
5 S	Phenol-d6	1.191	1.179	1.0	164#	0.00
6	bis(2-Chloroethyl)ether	1.064	1.056	0.8	158#	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	164#	-0.01
8 S	Nitrobenzene-d5	0.293	0.286	2.4	164#	-0.01
9	Naphthalene	1.093	1.062	2.8	162#	0.00
10	Hexachlorobutadiene	0.198	0.191	3.5	158#	-0.01
11 SURR	2-Methylnaphthalene-d10	0.530	0.511	3.6	168#	-0.01
12	2-Methylnaphthalene	0.676	0.657	2.8	163#	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	164#	-0.01
14 S	2,4,6-Tribromophenol	0.104	0.120	-15.4	196#	0.00
15 S	2-Fluorobiphenyl	1.673	1.646	1.6	164#	0.00
16	Acenaphthylene	1.834	1.743	5.0	161#	0.00
17	Acenaphthene	1.240	1.204	2.9	163#	-0.01
18	Fluorene	1.502	1.421	5.4	162#	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	165#	0.00
20	4,6-Dinitro-2-methylphenol	0.037	0.031	16.2	155#	0.00
21	4-Bromophenyl-phenylether	0.261	0.251	3.8	165#	-0.01
22	Hexachlorobenzene	0.300	0.292	2.7	164#	-0.01
23	Atrazine	0.166	0.156	6.0	170#	-0.01
24	Pentachlorophenol	0.087	0.103	-18.4	227#	0.00
25	Phenanthrene	1.259	1.218	3.3	165#	-0.01
26	Anthracene	1.116	1.073	3.9	166#	-0.01
27 SURR	Fluoranthene-d10	1.004	0.949	5.5	168#	0.00
28	Fluoranthene	1.381	1.338	3.1	169#	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	179#	0.00
30	Pyrene	1.566	1.487	5.0	171#	0.00
31 S	Terphenyl-d14	0.812	0.735	9.5	164#	0.00
32	Benzo(a)anthracene	1.395	1.368	1.9	182#	0.00
33	Chrysene	1.496	1.485	0.7	178#	0.00
34	Bis(2-ethylhexyl)phthalate	0.414	0.462	-11.6	220#	0.00
35 I	Perylene-d12	1.000	1.000	0.0	201#	-0.01
36	Indeno(1,2,3-cd)pyrene	1.681	1.811	-7.7	236#	-0.02
37	Benzo(b)fluoranthene	1.575	1.500	4.8	194#	0.00
38	Benzo(k)fluoranthene	1.606	1.567	2.4	207#	0.00
39 C	Benzo(a)pyrene	1.261	1.217	3.5	204#	0.00
40	Dibenzo(a,h)anthracene	1.342	1.448	-7.9	241#	-0.02
41	Benzo(g,h,i)perylene	1.506	1.515	-0.6	210#	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
 Data File : BN037759.D
 Acq On : 18 Sep 2025 02:46
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 18 05:02:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	160	0.00
2	1,4-Dioxane	0.400	0.415	-3.7	164	0.00
3	n-Nitrosodimethylamine	0.400	0.376	6.0	146	0.00
4 S	2-Fluorophenol	0.400	0.409	-2.2	169	0.00
5 S	Phenol-d6	0.400	0.396	1.0	164	0.00
6	bis(2-Chloroethyl)ether	0.400	0.397	0.8	158	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	164	-0.01
8 S	Nitrobenzene-d5	0.400	0.391	2.3	164	-0.01
9	Naphthalene	0.400	0.389	2.8	162	0.00
10	Hexachlorobutadiene	0.400	0.385	3.8	158	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.386	3.5	168	-0.01
12	2-Methylnaphthalene	0.400	0.389	2.8	163	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	164	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.460	-15.0	196	0.00
15 S	2-Fluorobiphenyl	0.400	0.393	1.8	164	0.00
16	Acenaphthylene	0.400	0.380	5.0	161	0.00
17	Acenaphthene	0.400	0.388	3.0	163	-0.01
18	Fluorene	0.400	0.378	5.5	162	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	165	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.334	16.5	155	0.00
21	4-Bromophenyl-phenylether	0.400	0.385	3.8	165	-0.01
22	Hexachlorobenzene	0.400	0.389	2.8	164	-0.01
23	Atrazine	0.400	0.375	6.3	170	-0.01
24	Pentachlorophenol	0.400	0.471	-17.7	227	0.00
25	Phenanthrene	0.400	0.387	3.3	165	-0.01
26	Anthracene	0.400	0.385	3.8	166	-0.01
27 SURR	Fluoranthene-d10	0.400	0.378	5.5	168	0.00
28	Fluoranthene	0.400	0.387	3.3	169	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	179	0.00
30	Pyrene	0.400	0.380	5.0	171	0.00
31 S	Terphenyl-d14	0.400	0.362	9.5	164	0.00
32	Benzo(a)anthracene	0.400	0.392	2.0	182	0.00
33	Chrysene	0.400	0.397	0.8	178	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.446	-11.5	220	0.00
35 I	Perylene-d12	0.400	0.400	0.0	201	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.431	-7.7	236	-0.02
37	Benzo(b)fluoranthene	0.400	0.381	4.8	194	0.00
38	Benzo(k)fluoranthene	0.400	0.390	2.5	207	0.00
39 C	Benzo(a)pyrene	0.400	0.386	3.5	204	0.00
40	Dibenzo(a,h)anthracene	0.400	0.432	-8.0	241	-0.02
41	Benzo(g,h,i)perylene	0.400	0.403	-0.8	210	-0.01

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: AECO15
 Lab Code: ACE SDG No.: Q3095
 Instrument ID: BNA_N Calibration Date/Time: 09/18/2025 13:16
 Lab File ID: BN037774.D Init. Calib. Date(s): 09/11/2025 09/11/2025
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 09:56 13:33
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.506		-4.5	50.0
Fluoranthene-d10	1.004	0.949		-5.5	50.0
2-Fluorophenol	0.918	0.915		-0.3	50.0
Phenol-d6	1.191	1.160		-2.6	50.0
Nitrobenzene-d5	0.293	0.296		1.0	50.0
2-Fluorobiphenyl	1.673	1.646		-1.6	50.0
2,4,6-Tribromophenol	0.104	0.126		21.2	50.0
Terphenyl-d14	0.812	0.758		-6.7	50.0
1,4-Dioxane	0.417	0.425		1.9	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
 Data File : BN037774.D
 Acq On : 18 Sep 2025 13:16
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Sep 18 13:43:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

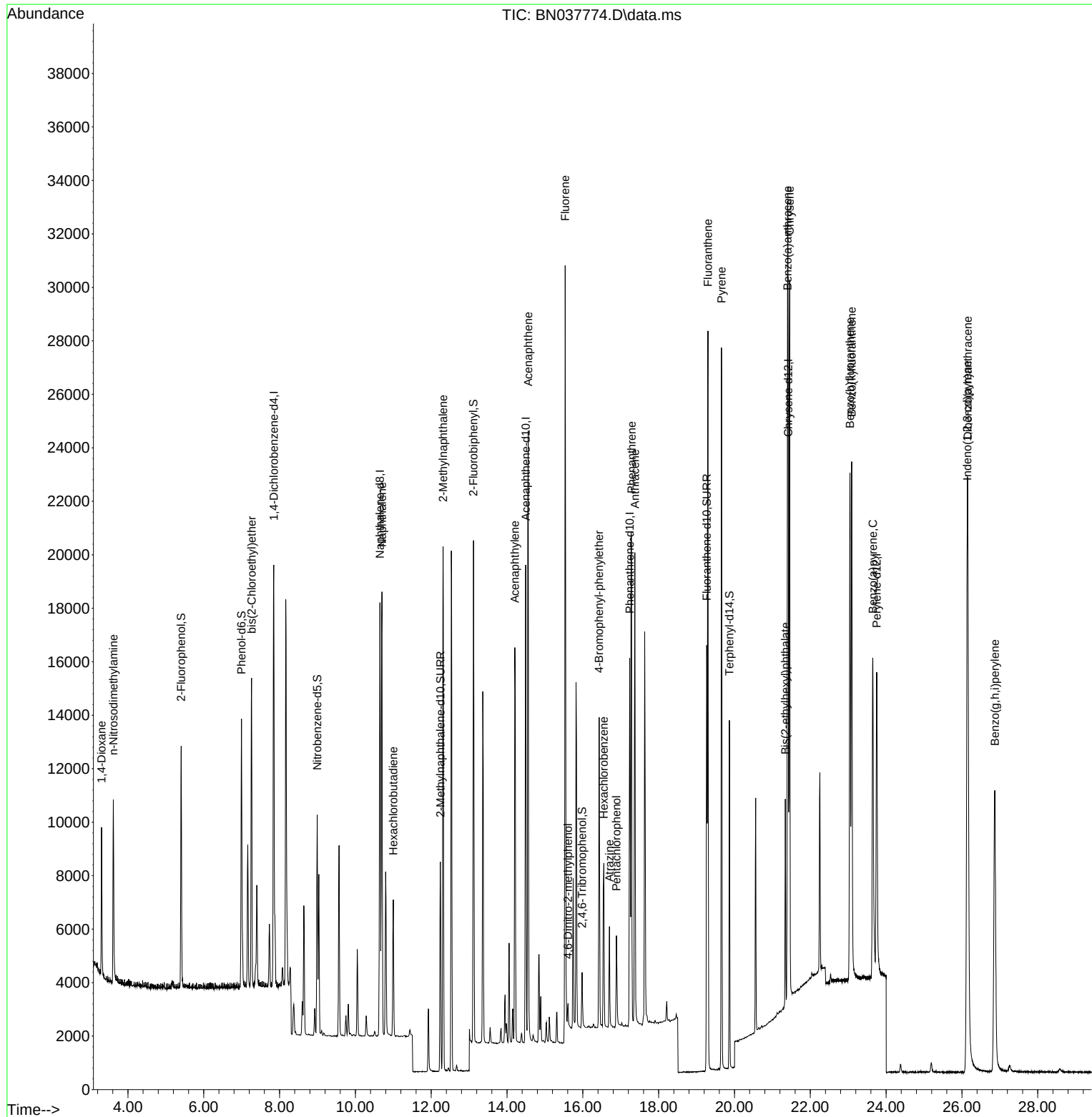
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.847	152	7889	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	20894	0.400	ng	0.00
13) Acenaphthene-d10	14.494	164	9741	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	18065	0.400	ng	0.00
29) Chrysene-d12	21.420	240	16005	0.400	ng	0.00
35) Perylene-d12	23.753	264	16216	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.406	112	7221	0.399	ng	0.00
5) Phenol-d6	6.995	99	9149	0.390	ng	0.00
8) Nitrobenzene-d5	8.993	82	6183	0.405	ng	0.00
11) 2-Methylnaphthalene-d10	12.243	152	10579	0.382	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	1232	0.485	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	16033	0.394	ng	0.00
27) Fluoranthene-d10	19.266	212	17138	0.378	ng	0.00
31) Terphenyl-d14	19.866	244	12130	0.373	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.304	88	3351	0.408	ng	96
3) n-Nitrosodimethylamine	3.615	42	4085	0.381	ng	91
6) bis(2-Chloroethyl)ether	7.262	93	8348	0.398	ng	98
9) Naphthalene	10.701	128	22536	0.395	ng	100
10) Hexachlorobutadiene	11.000	225	4013	0.388	ng	# 99
12) 2-Methylnaphthalene	12.314	142	13704	0.388	ng	99
16) Acenaphthylene	14.206	152	16996	0.380	ng	99
17) Acenaphthene	14.559	154	11822	0.391	ng	99
18) Fluorene	15.535	166	14211	0.388	ng	100
20) 4,6-Dinitro-2-methylph...	15.609	198	668	0.399	ng	89
21) 4-Bromophenyl-phenylether	16.429	248	4506	0.383	ng	# 69
22) Hexachlorobenzene	16.553	284	5415	0.400	ng	98
23) Atrazine	16.702	200	2912	0.389	ng	98
24) Pentachlorophenol	16.888	266	1796	0.457	ng	97
25) Phenanthrene	17.285	178	22453	0.395	ng	100
26) Anthracene	17.372	178	19091	0.379	ng	99
28) Fluoranthene	19.299	202	24335	0.390	ng	100
30) Pyrene	19.657	202	24230	0.387	ng	100
32) Benzo(a)anthracene	21.402	228	21339	0.382	ng	99
33) Chrysene	21.456	228	23785	0.397	ng	99
34) Bis(2-ethylhexyl)phtha...	21.339	149	7017	0.424	ng	98
36) Indeno(1,2,3-cd)pyrene	26.139	276	29869	0.438	ng	100
37) Benzo(b)fluoranthene	23.046	252	24782	0.388	ng	98
38) Benzo(k)fluoranthene	23.092	252	26275	0.404	ng	99
39) Benzo(a)pyrene	23.648	252	19411	0.380	ng	98
40) Dibenzo(a,h)anthracene	26.153	278	24050	0.442	ng	97
41) Benzo(g,h,i)perylene	26.867	276	24546	0.402	ng	98

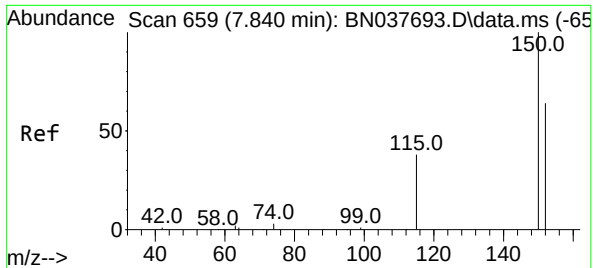
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037774.D
Acq On : 18 Sep 2025 13:16
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Sep 18 13:43:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

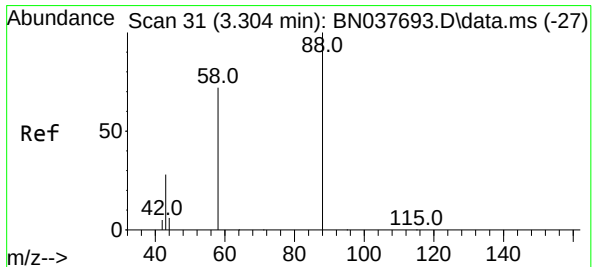
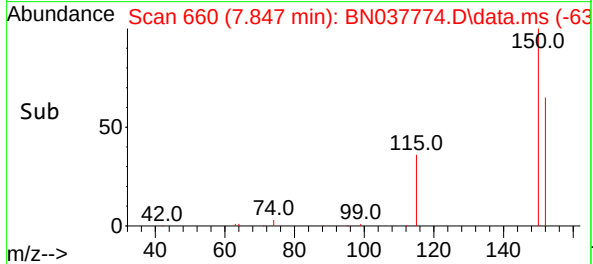
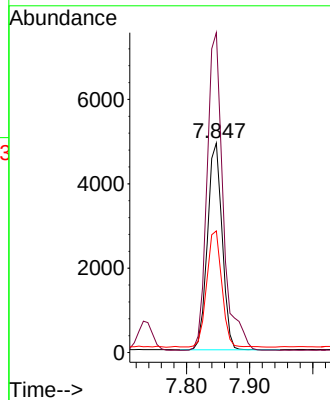
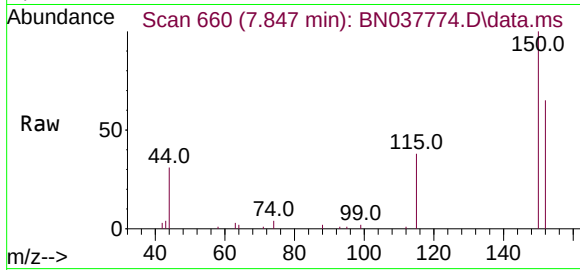




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.847 min Scan# 60
Delta R.T. 0.007 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

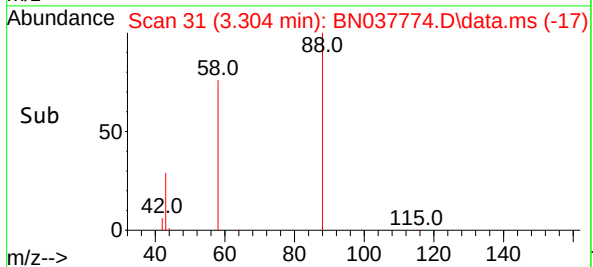
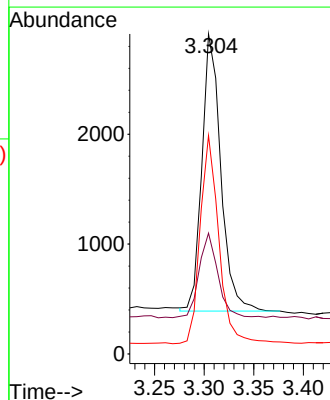
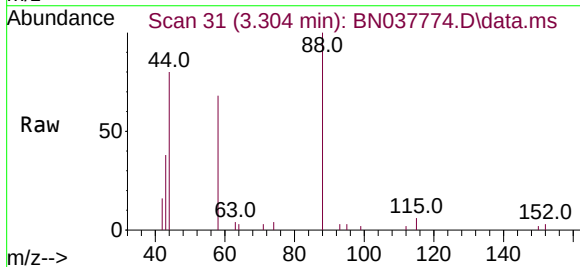
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 7889
Ion Ratio Lower Upper
152 100
150 152.7 124.5 186.7
115 58.1 49.2 73.8

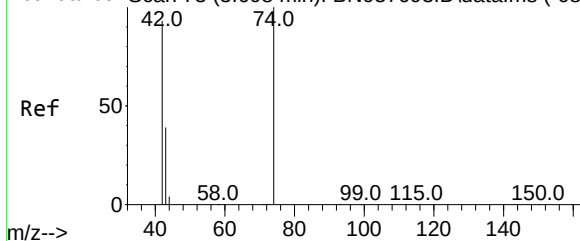


#2
1,4-Dioxane
Concen: 0.408 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion: 88 Resp: 3351
Ion Ratio Lower Upper
88 100
43 30.6 26.8 40.2
58 74.3 61.9 92.9



Abundance Scan 73 (3.608 min): BN037693.D\data.ms (-68)



#3

n-Nitrosodimethylamine

Concen: 0.381 ng

RT: 3.615 min Scan# 74

Delta R.T. 0.007 min

Lab File: BN037774.D

Acq: 18 Sep 2025 13:16

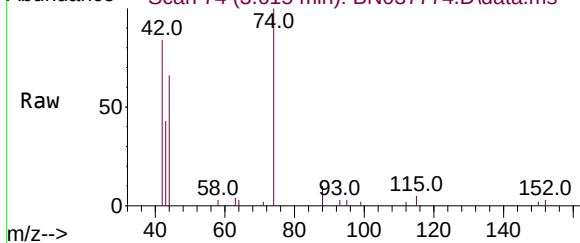
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Abundance Scan 74 (3.615 min): BN037774.D\data.ms



Tgt Ion: 42 Resp: 4085

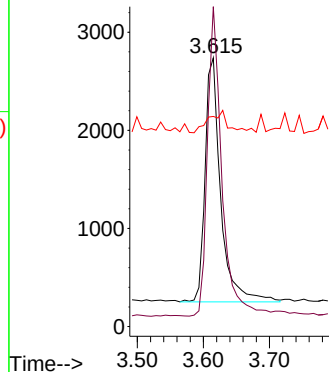
Ion Ratio Lower Upper

42 100

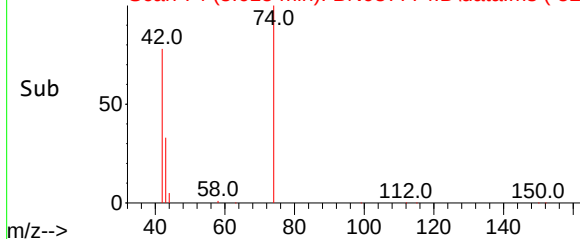
74 118.1 86.0 129.0

44 11.0 8.4 12.6

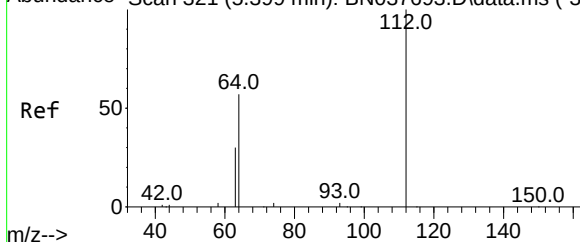
Abundance



Abundance Scan 74 (3.615 min): BN037774.D\data.ms (-52)



Abundance Scan 321 (5.399 min): BN037693.D\data.ms (-30)



#4

2-Fluorophenol

Concen: 0.399 ng

RT: 5.406 min Scan# 322

Delta R.T. 0.007 min

Lab File: BN037774.D

Acq: 18 Sep 2025 13:16

Tgt Ion: 112 Resp: 7221

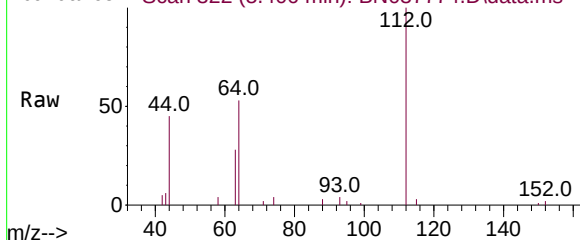
Ion Ratio Lower Upper

112 100

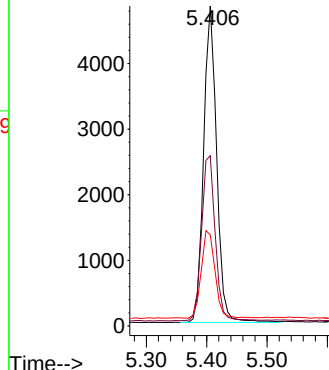
64 55.2 44.9 67.3

63 29.2 24.7 37.1

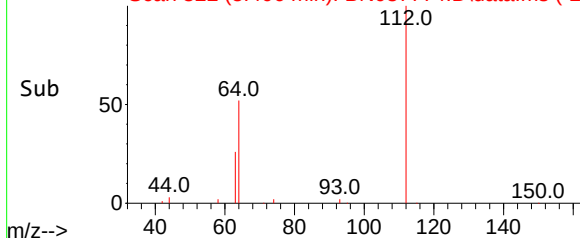
Abundance Scan 322 (5.406 min): BN037774.D\data.ms

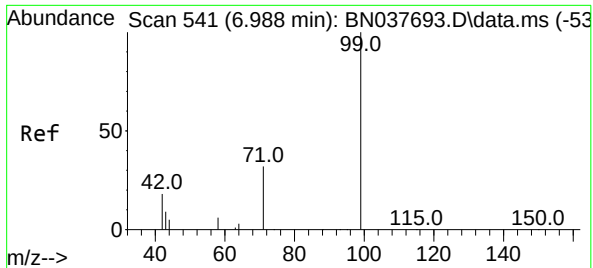


Abundance



Abundance Scan 322 (5.406 min): BN037774.D\data.ms (-29)

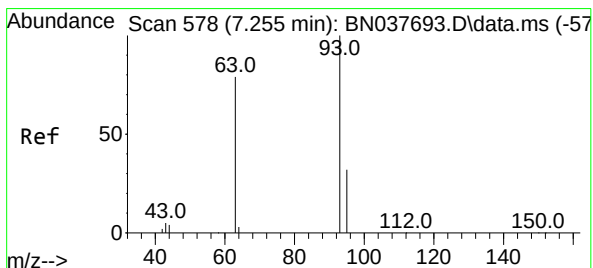
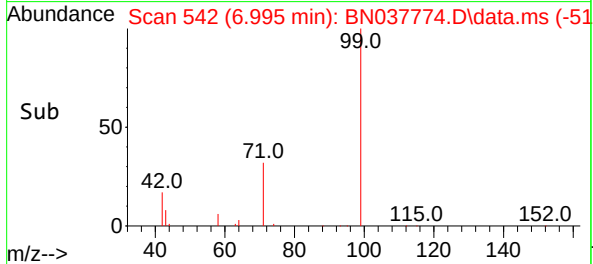
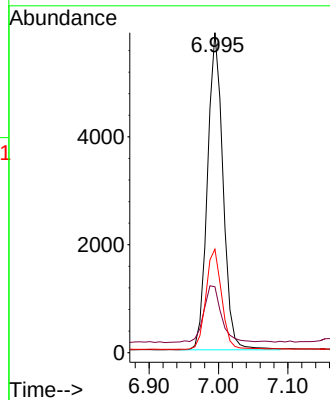
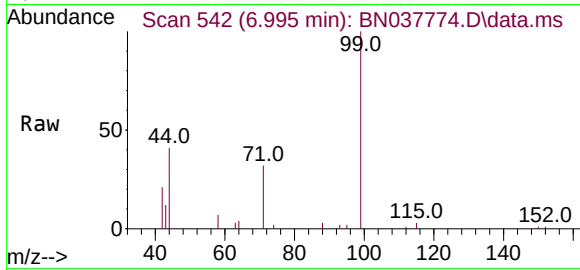




#5
Phenol-d6
Concen: 0.390 ng
RT: 6.995 min Scan# 541
Delta R.T. 0.007 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

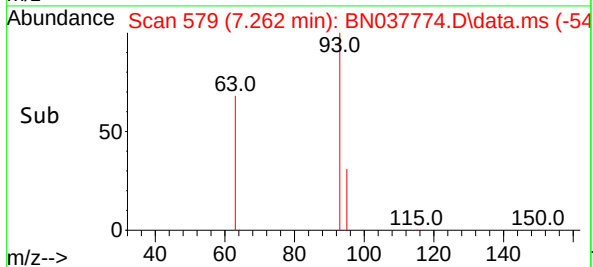
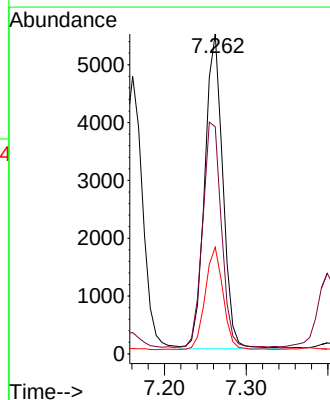
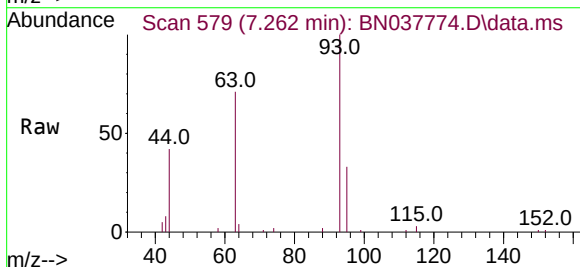
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

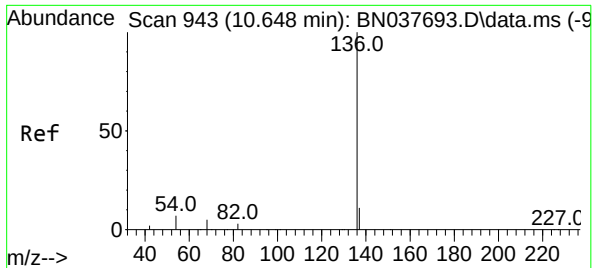
Tgt Ion: 99 Resp: 9149
Ion Ratio Lower Upper
99 100
42 20.7 16.6 24.8
71 32.0 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.398 ng
RT: 7.262 min Scan# 579
Delta R.T. 0.007 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion: 93 Resp: 8348
Ion Ratio Lower Upper
93 100
63 74.1 60.6 90.8
95 32.0 26.0 39.0

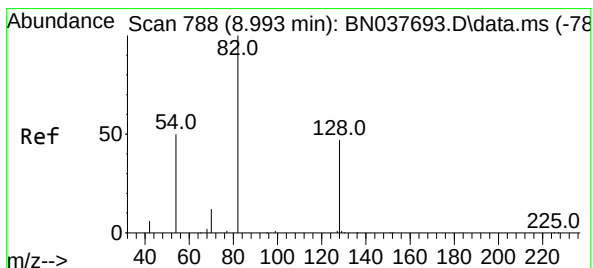
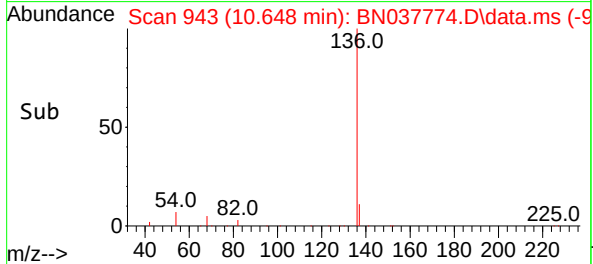
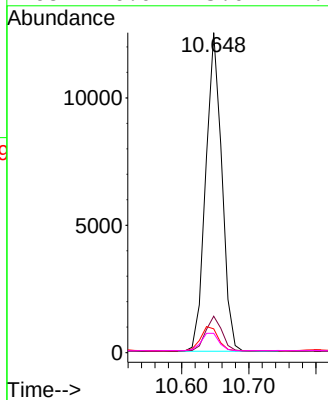
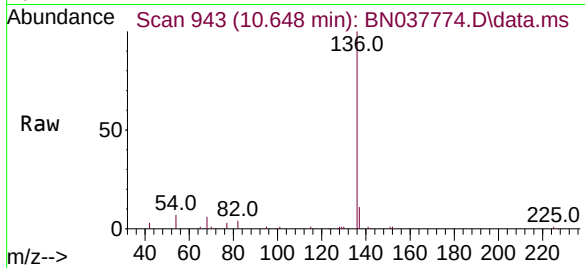




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

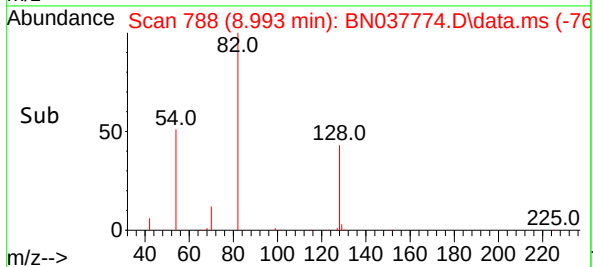
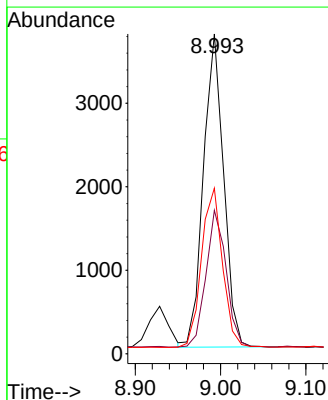
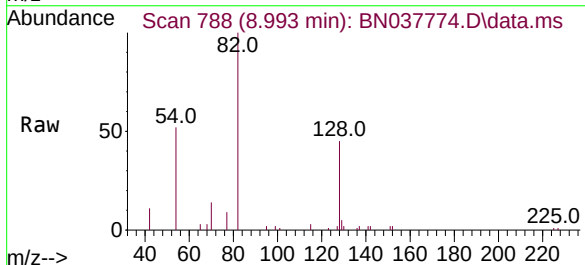
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

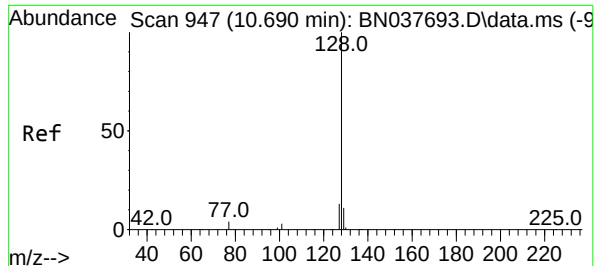
Tgt Ion:136	Resp:	20894
Ion Ratio	Lower	Upper
136	100	
137	11.4	9.1 13.7
54	7.4	6.3 9.5
68	6.0	5.0 7.4



#8
Nitrobenzene-d5
Concen: 0.405 ng
RT: 8.993 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion: 82	Resp:	6183
Ion Ratio	Lower	Upper
82	100	
128	44.9	38.3 57.5
54	51.8	41.4 62.2

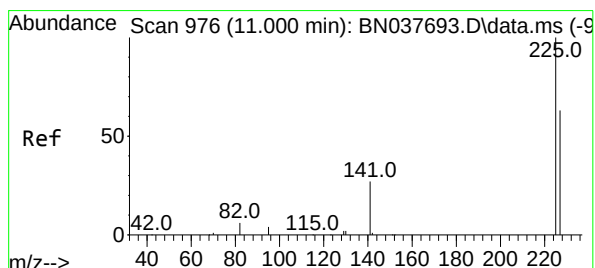
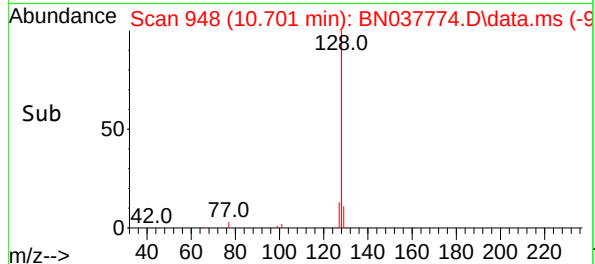
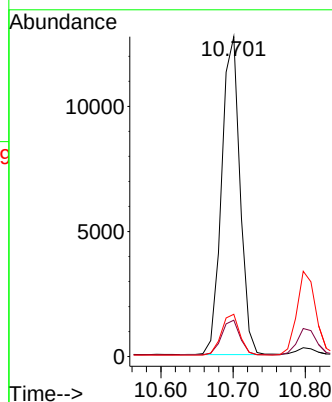
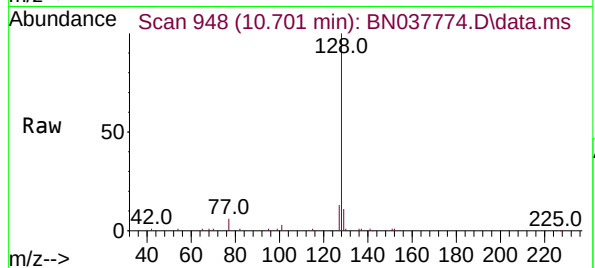




#9
Naphthalene
Concen: 0.395 ng
RT: 10.701 min Scan# 948
Delta R.T. 0.011 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

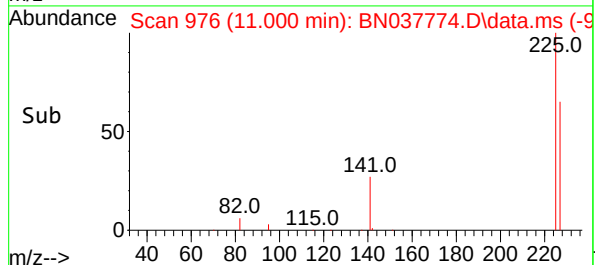
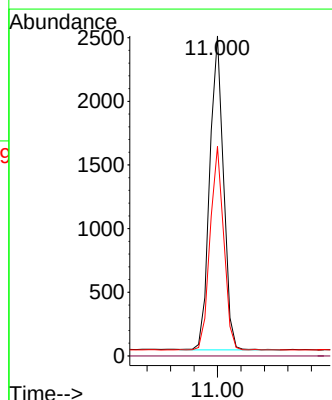
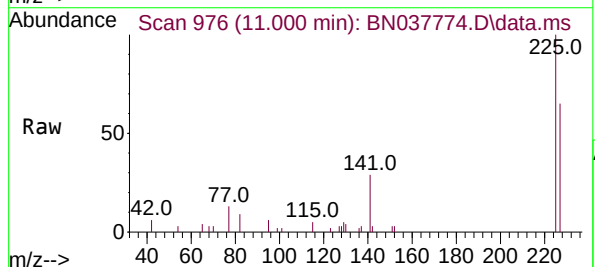
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

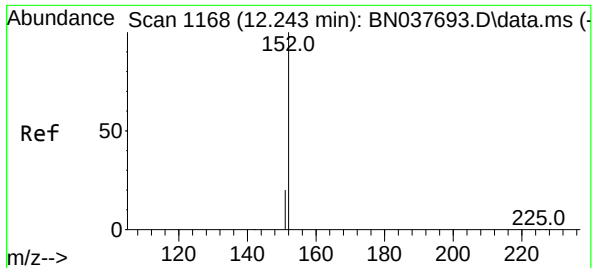
Tgt Ion:128 Resp: 22536
Ion Ratio Lower Upper
128 100
129 11.4 9.1 13.7
127 13.2 10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.388 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:225 Resp: 4013
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.4 50.9 76.3

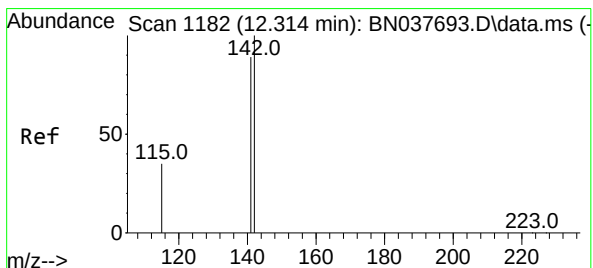
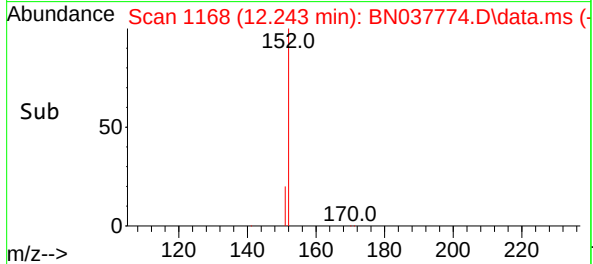
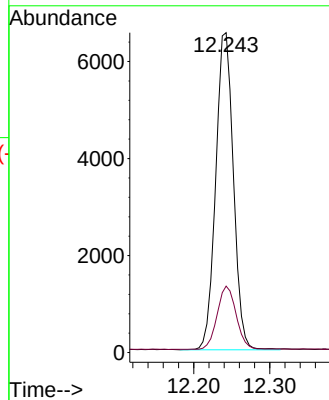
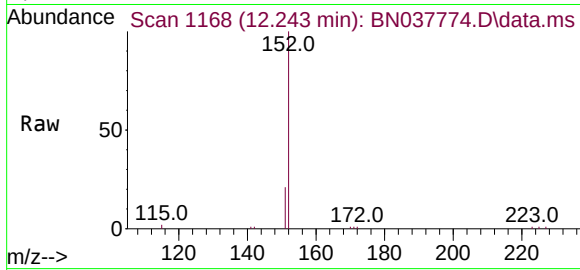




#11
2-Methylnaphthalene-d10
Concen: 0.382 ng
RT: 12.243 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

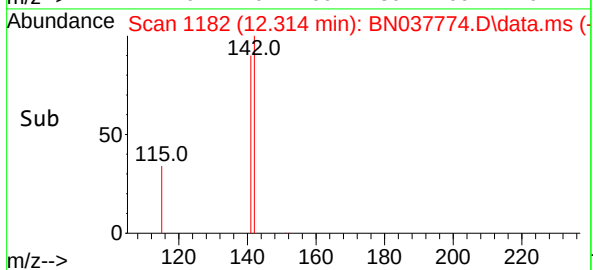
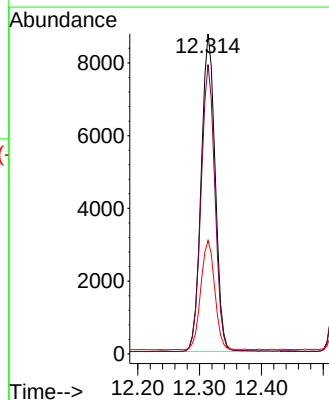
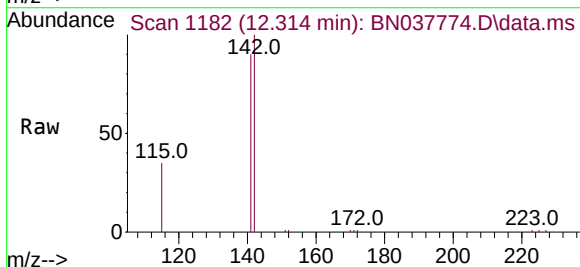
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

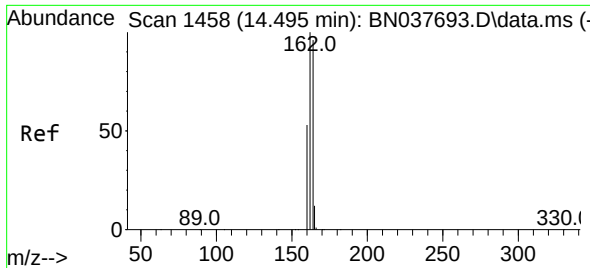
Tgt Ion:152 Resp: 10579
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.388 ng
RT: 12.314 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:142 Resp: 13704
Ion Ratio Lower Upper
142 100
141 90.4 71.6 107.4
115 35.4 28.6 43.0

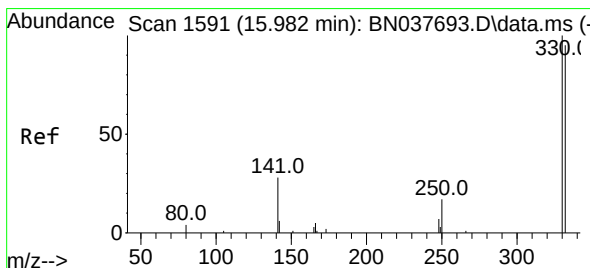
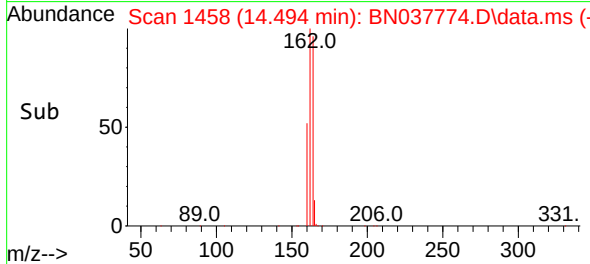
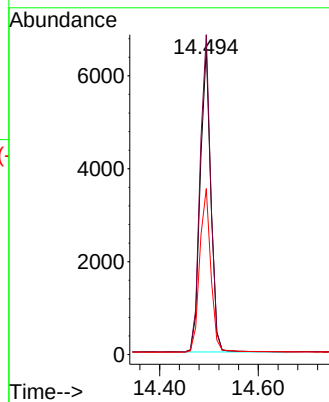
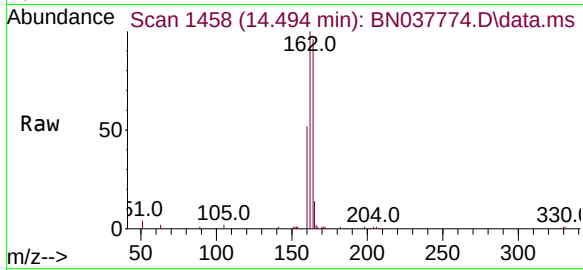




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

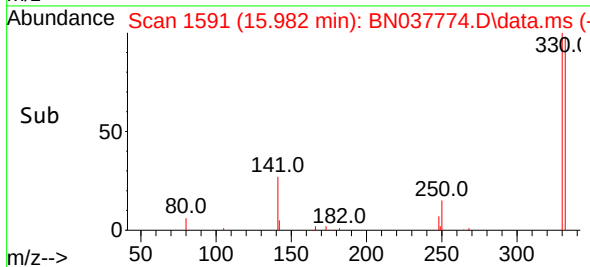
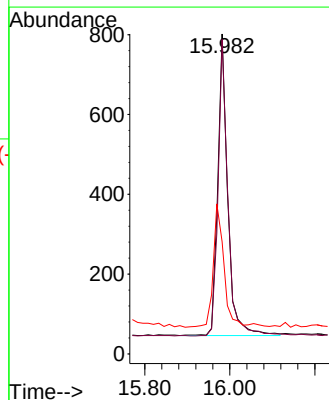
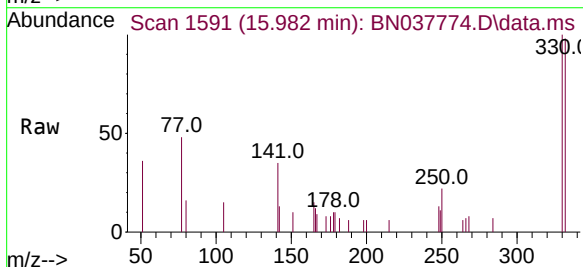
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

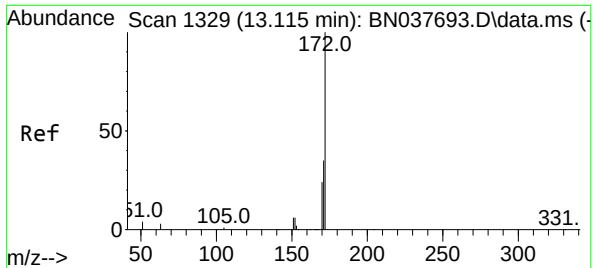
Tgt Ion:164 Resp: 9741
Ion Ratio Lower Upper
164 100
162 104.5 83.1 124.7
160 54.2 44.3 66.5



#14
2,4,6-Tribromophenol
Concen: 0.485 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:330 Resp: 1232
Ion Ratio Lower Upper
330 100
332 97.6 75.3 112.9
141 43.4 35.0 52.4

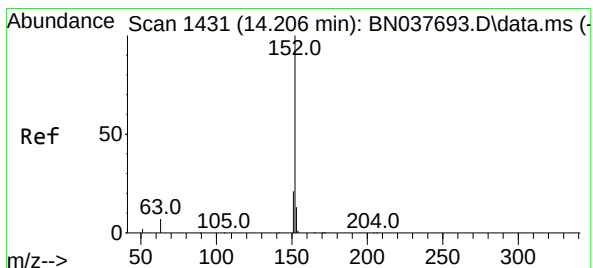
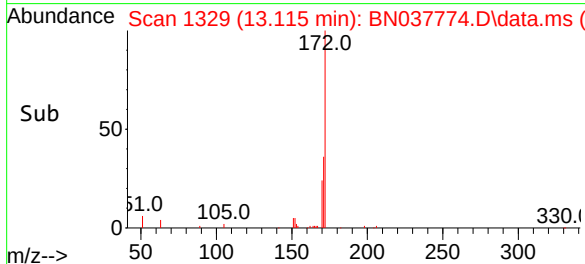
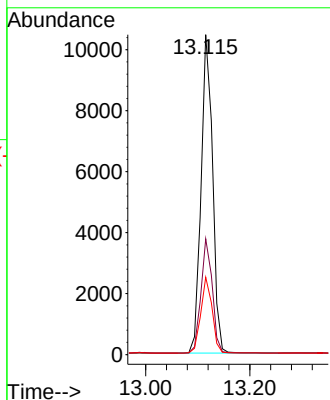
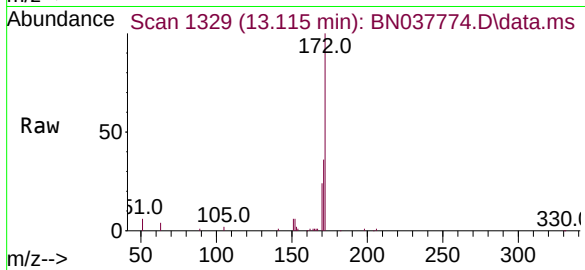




#15
2-Fluorobiphenyl
Concen: 0.394 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

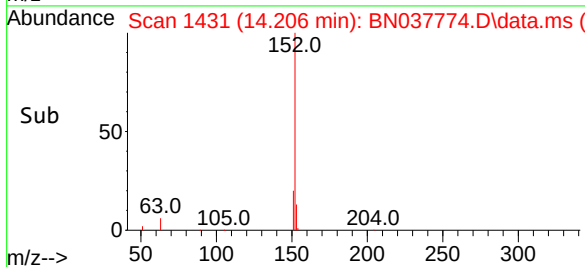
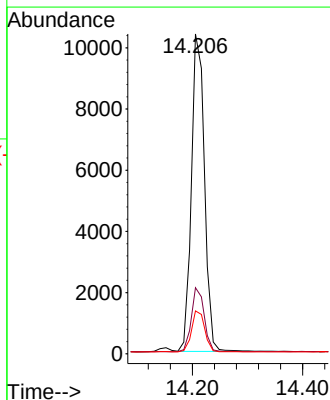
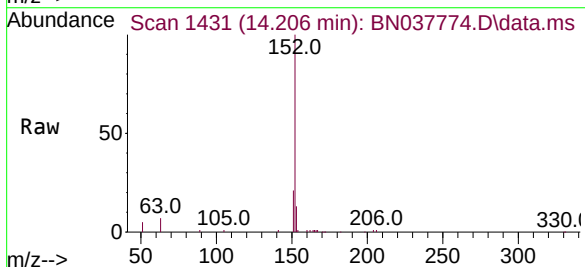
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

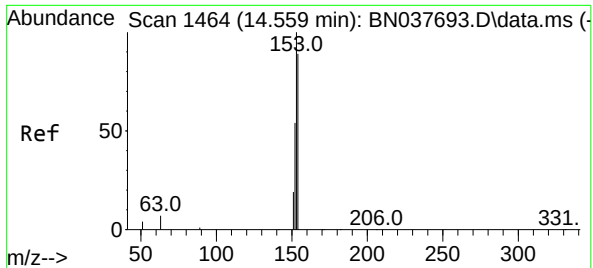
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.6	43.0
170	24.2	19.8	29.8



#16
Acenaphthylene
Concen: 0.380 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.2	24.2
153	13.2	10.4	15.6

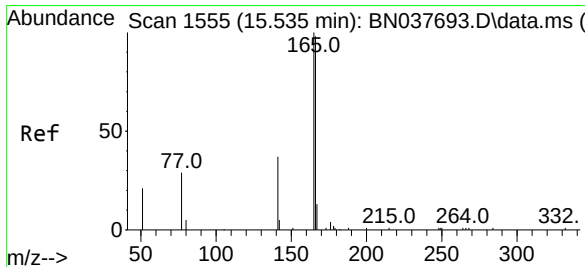
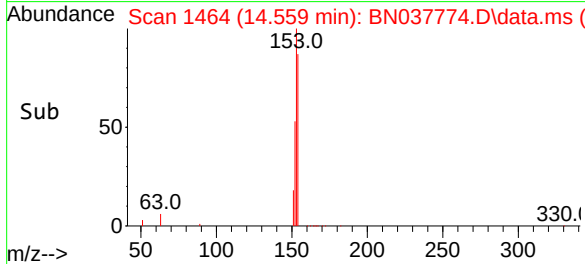
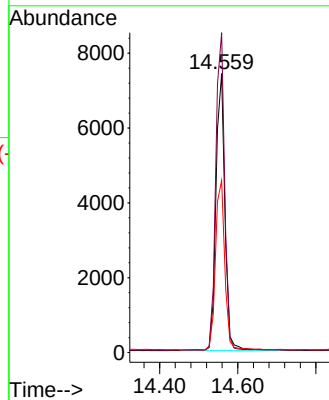
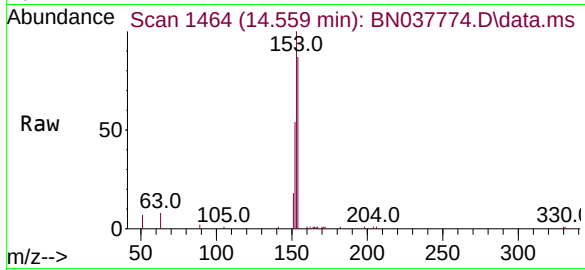




#17
Acenaphthene
Concen: 0.391 ng
RT: 14.559 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

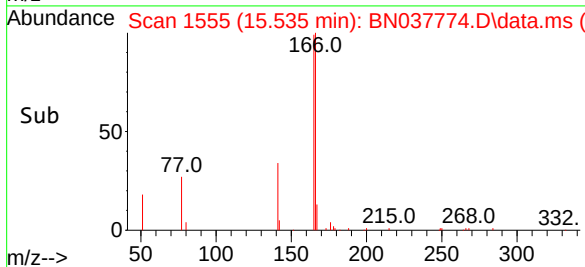
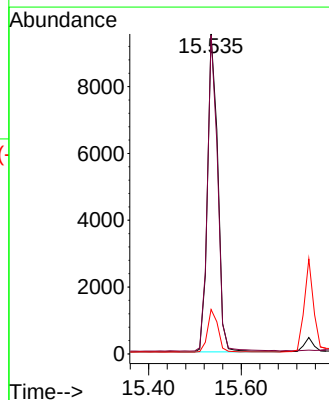
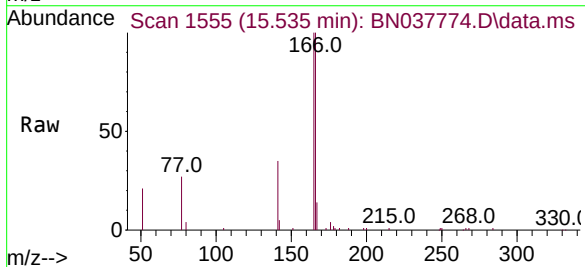
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

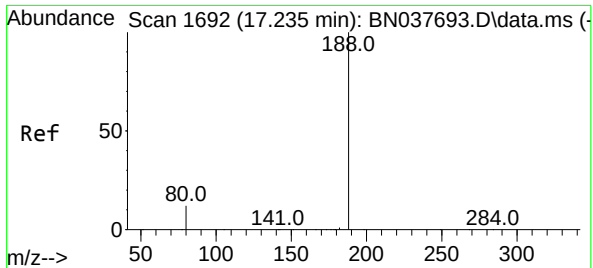
Tgt Ion:154 Resp: 11822
Ion Ratio Lower Upper
154 100
153 113.9 89.8 134.8
152 63.1 50.2 75.2



#18
Fluorene
Concen: 0.388 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:166 Resp: 14211
Ion Ratio Lower Upper
166 100
165 99.7 79.6 119.4
167 13.7 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037774.D

Acq: 18 Sep 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

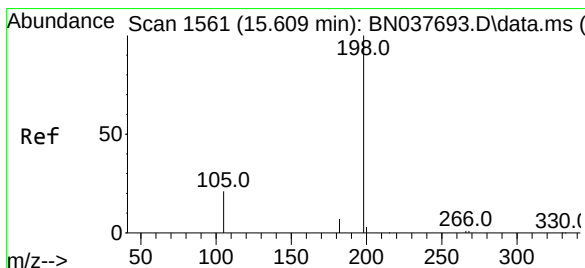
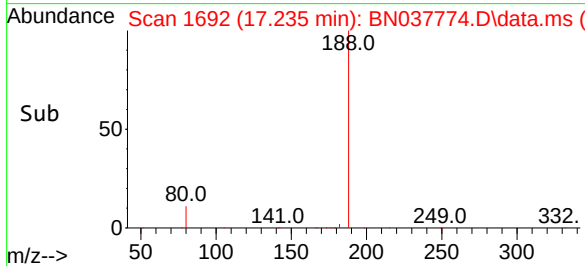
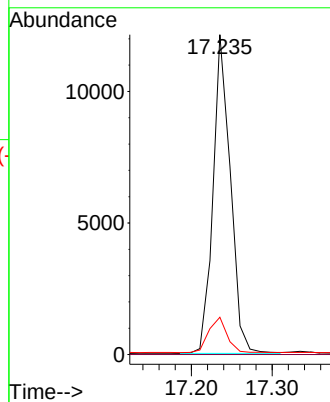
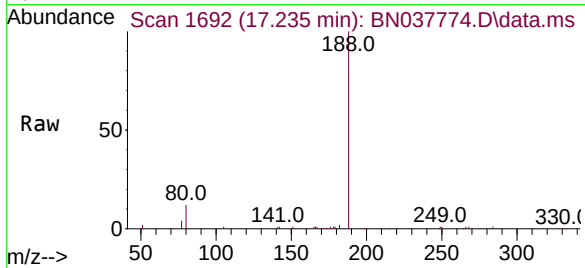
Tgt Ion:188 Resp: 18065

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.7 10.6 15.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.399 ng

RT: 15.609 min Scan# 1561

Delta R.T. 0.000 min

Lab File: BN037774.D

Acq: 18 Sep 2025 13:16

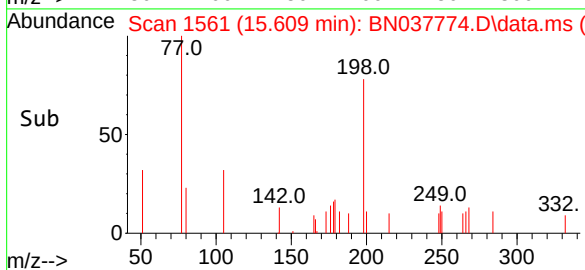
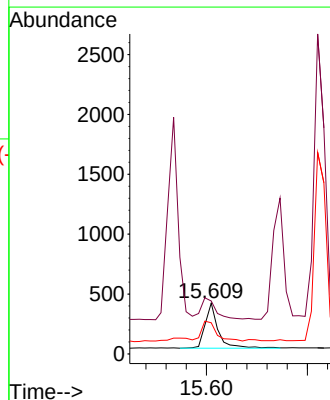
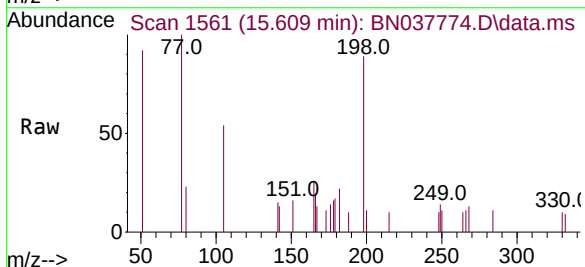
Tgt Ion:198 Resp: 668

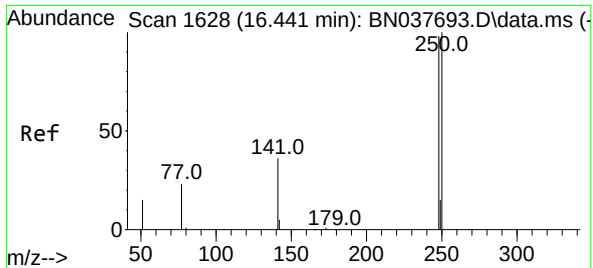
Ion Ratio Lower Upper

198 100

51 104.0 95.1 142.7

105 61.2 53.8 80.6

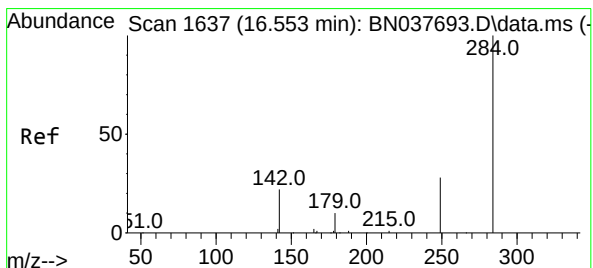
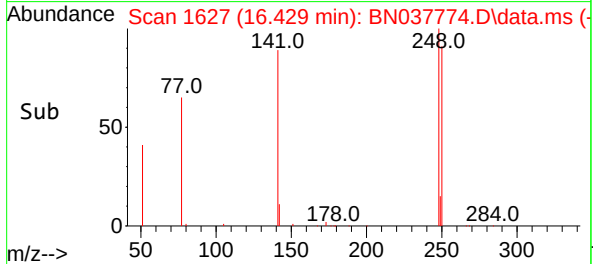
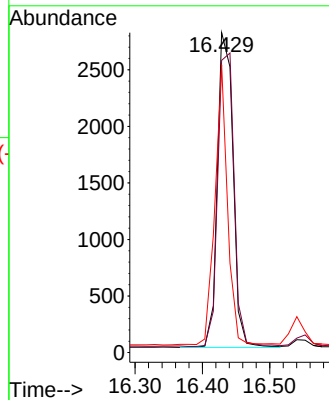
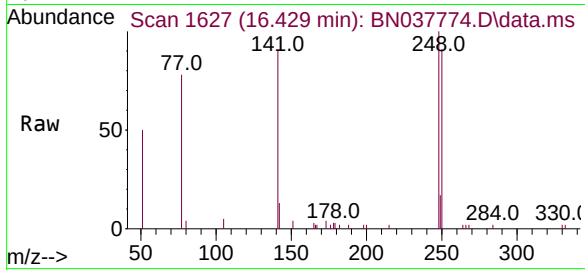




#21
4-Bromophenyl-phenylether
Concen: 0.383 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.013 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

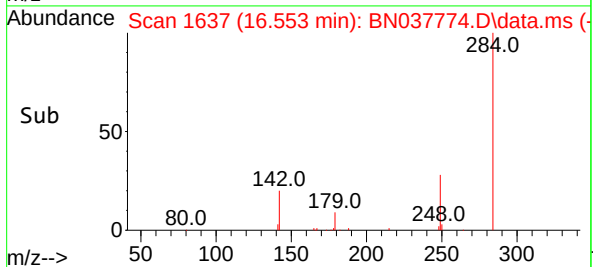
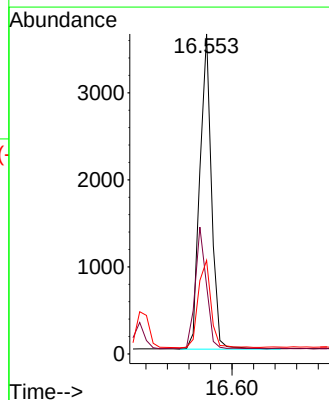
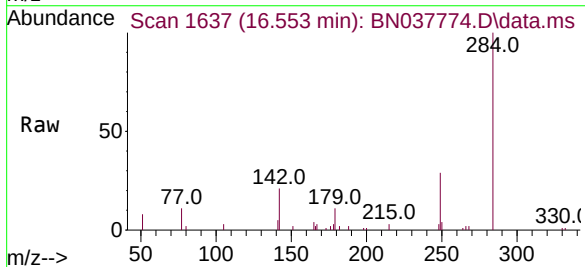
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

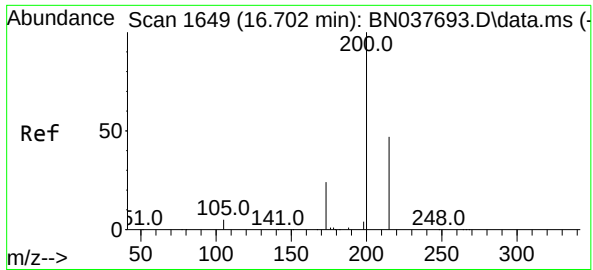
Tgt Ion:248 Resp: 4506
Ion Ratio Lower Upper
248 100
250 91.3 81.5 122.3
141 90.0 30.8 46.2#



#22
Hexachlorobenzene
Concen: 0.400 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:284 Resp: 5415
Ion Ratio Lower Upper
284 100
142 37.4 30.9 46.3
249 30.2 24.8 37.2

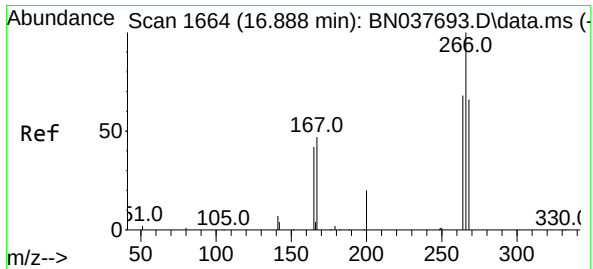
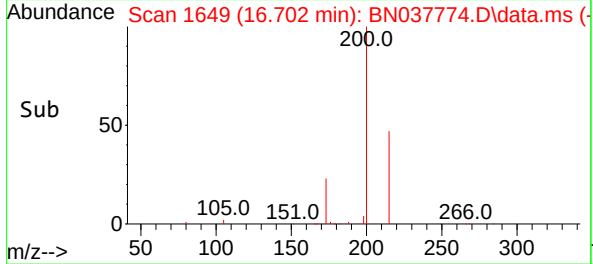
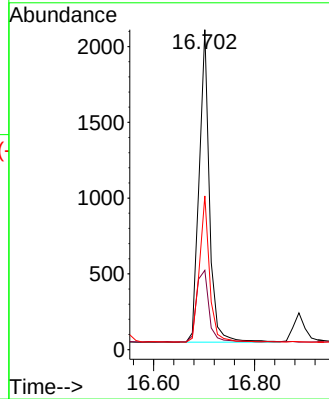
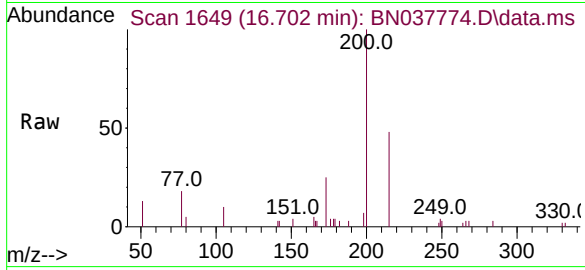




#23
Atrazine
Concen: 0.389 ng
RT: 16.702 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

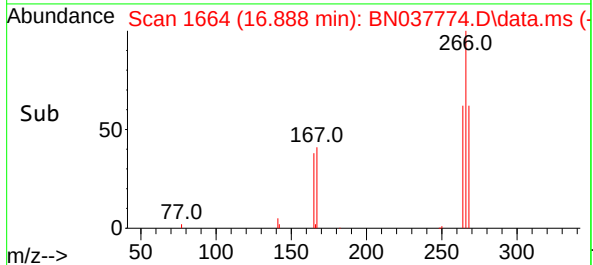
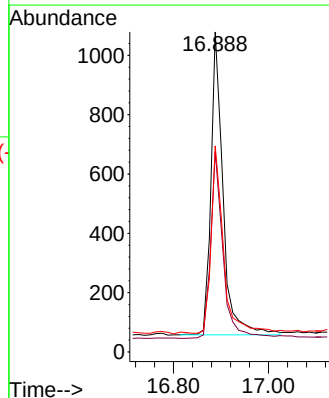
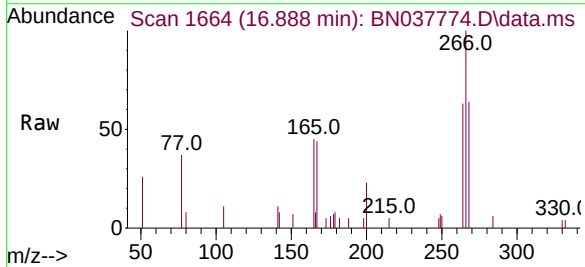
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

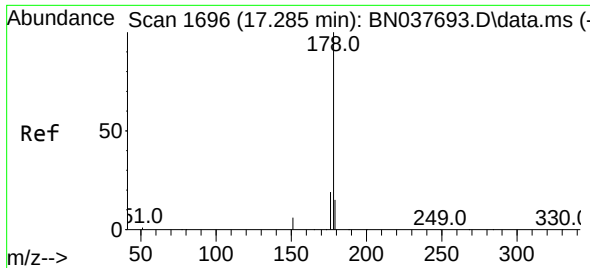
Tgt Ion	Ratio	Lower	Upper
200	100		
173	24.8	21.4	32.2
215	48.0	39.2	58.8



#24
Pentachlorophenol
Concen: 0.457 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.0	51.6	77.4
268	63.9	53.2	79.8

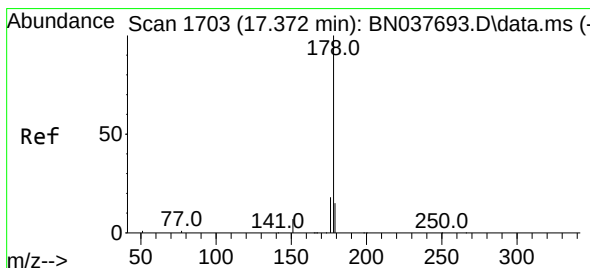
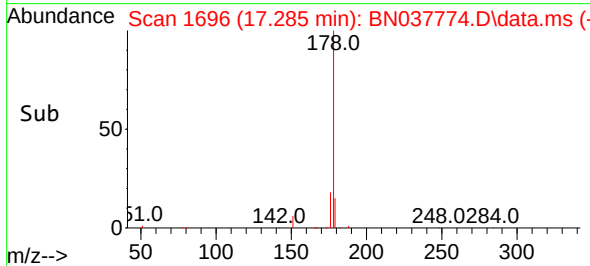
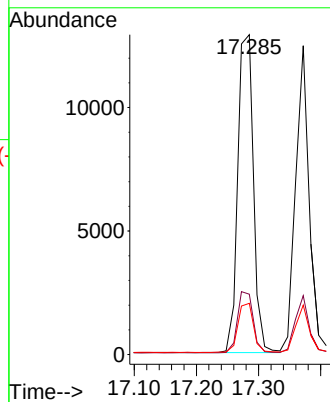
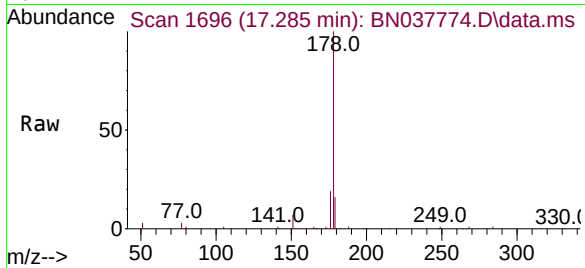




#25
Phenanthrene
Concen: 0.395 ng
RT: 17.285 min Scan# 1696
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

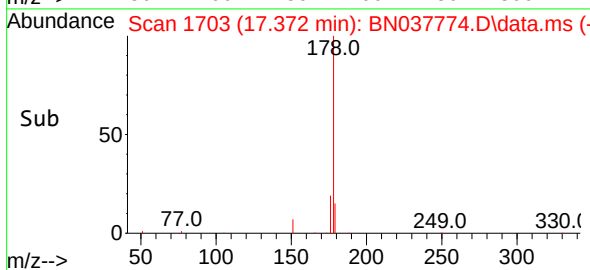
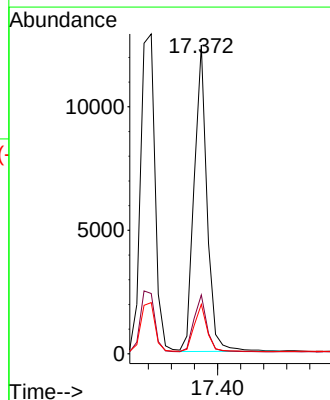
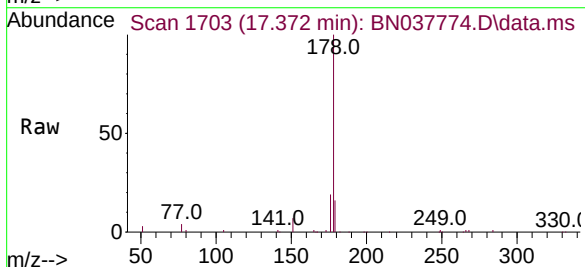
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

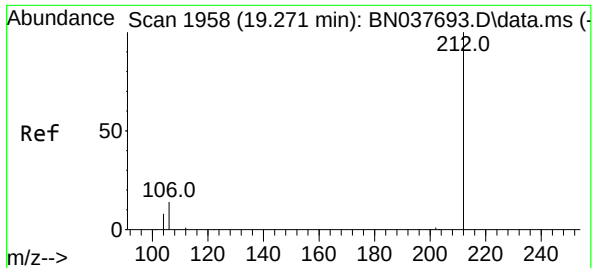
Tgt Ion	178	176	179
Resp:	22453		
Ion Ratio	100	19.1	15.4
Lower		15.3	12.2
Upper		22.9	18.2



#26
Anthracene
Concen: 0.379 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion	178	176	179
Resp:	19091		
Ion Ratio	100	18.7	15.4
Lower		14.6	12.2
Upper		22.0	18.4





#27

Fluoranthene-d10

Concen: 0.378 ng

RT: 19.266 min Scan# 1957

Delta R.T. -0.005 min

Lab File: BN037774.D

Acq: 18 Sep 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

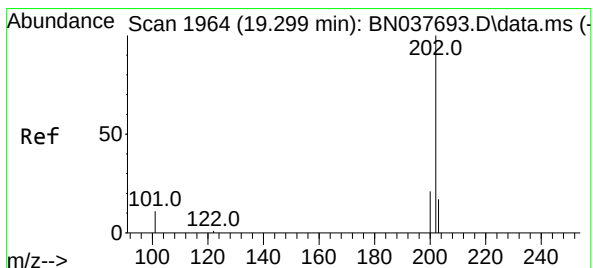
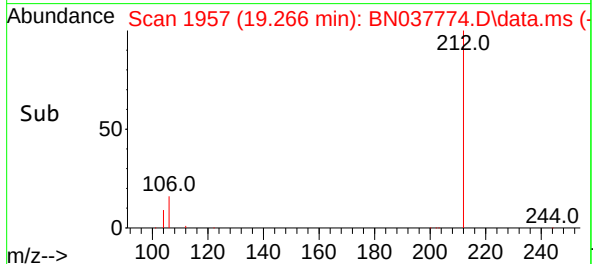
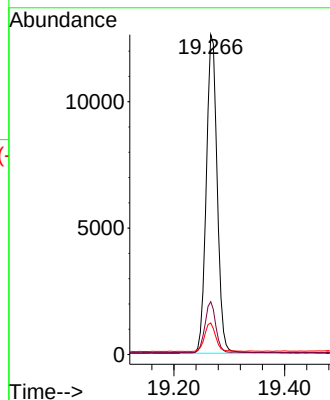
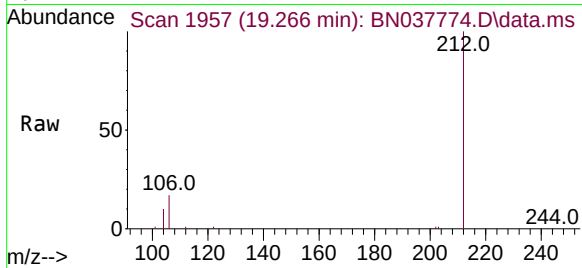
Tgt Ion:212 Resp: 17138

Ion Ratio Lower Upper

212 100

106 15.7 12.2 18.2

104 9.2 6.9 10.3



#28

Fluoranthene

Concen: 0.390 ng

RT: 19.299 min Scan# 1964

Delta R.T. -0.000 min

Lab File: BN037774.D

Acq: 18 Sep 2025 13:16

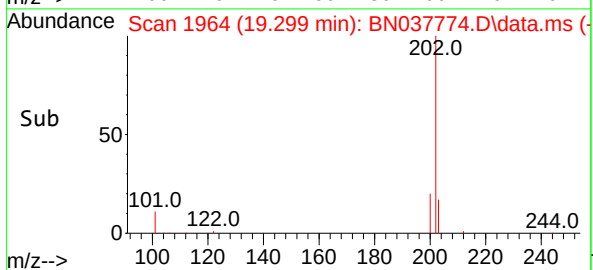
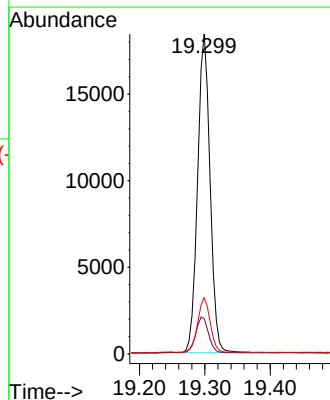
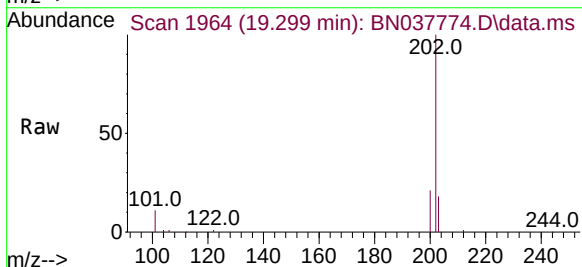
Tgt Ion:202 Resp: 24335

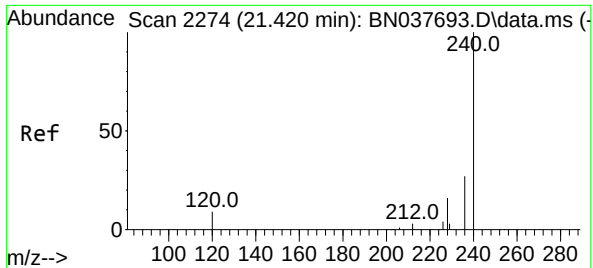
Ion Ratio Lower Upper

202 100

101 11.7 9.3 13.9

203 17.1 13.7 20.5

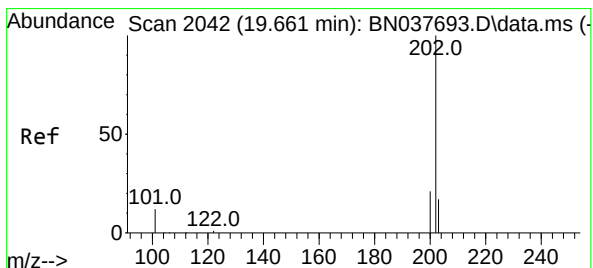
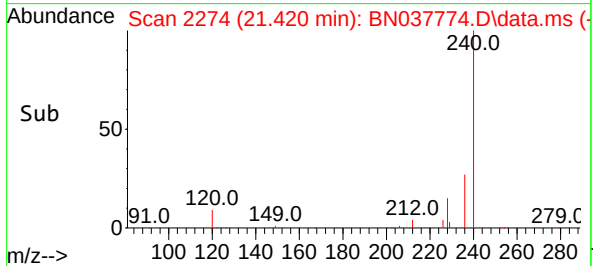
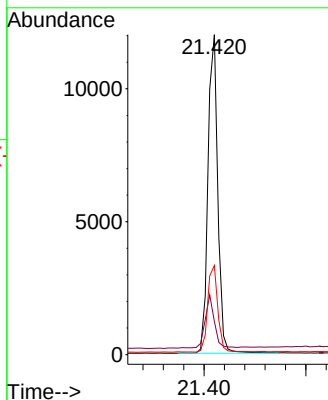
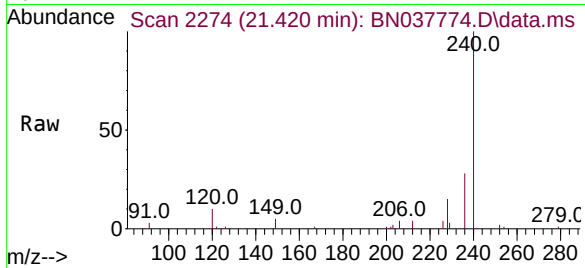




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

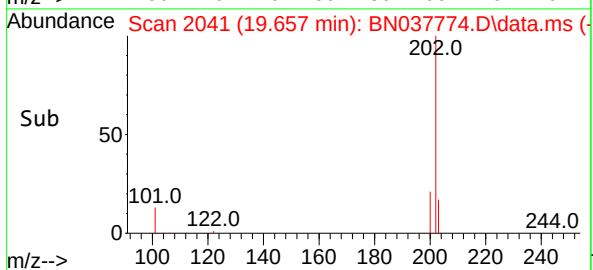
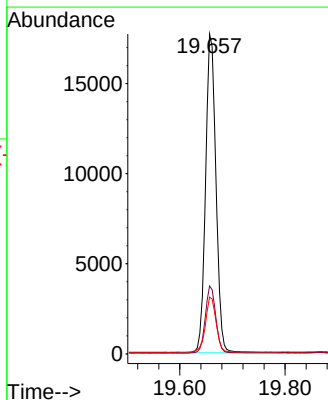
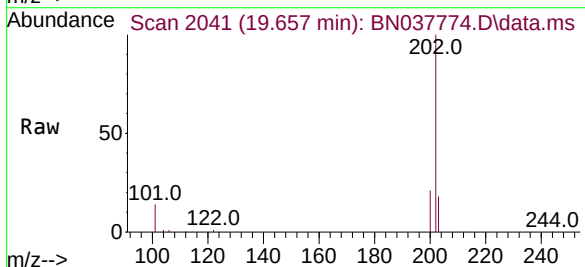
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

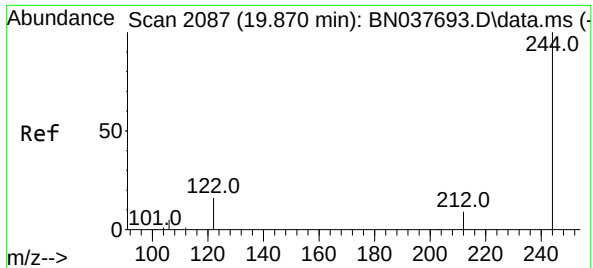
Tgt Ion	Ratio	Lower	Upper
240	100		
120	10.4	9.2	13.8
236	27.8	22.6	33.8



#30
Pyrene
Concen: 0.387 ng
RT: 19.657 min Scan# 2041
Delta R.T. -0.005 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	17.7	14.3	21.5

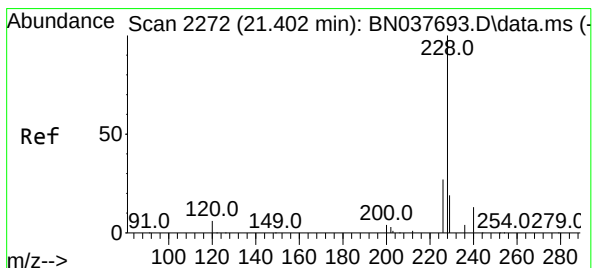
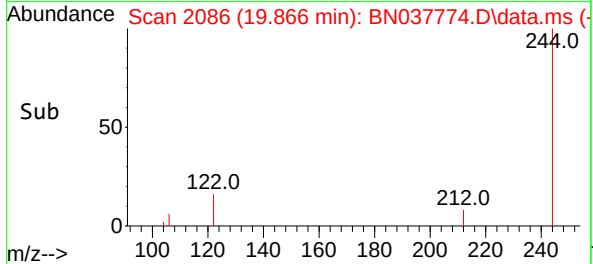
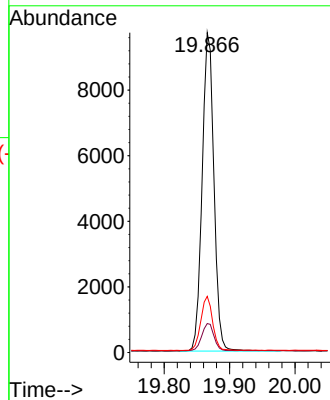
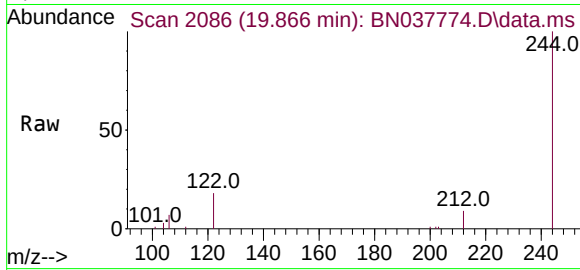




#31
Terphenyl-d14
Concen: 0.373 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

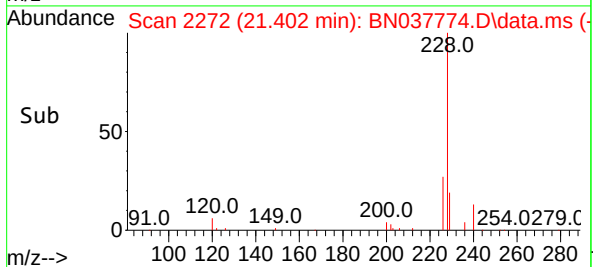
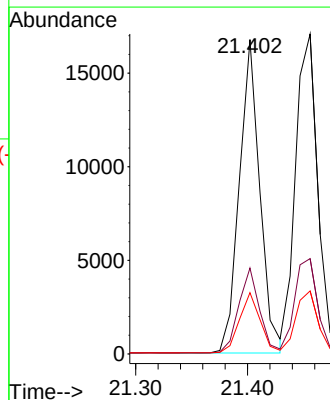
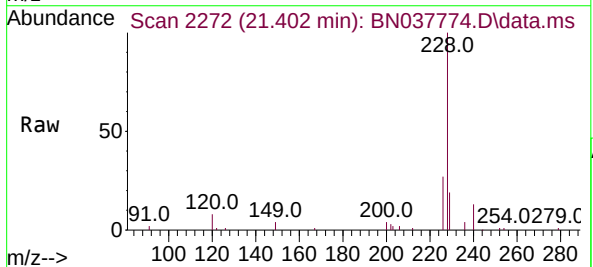
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

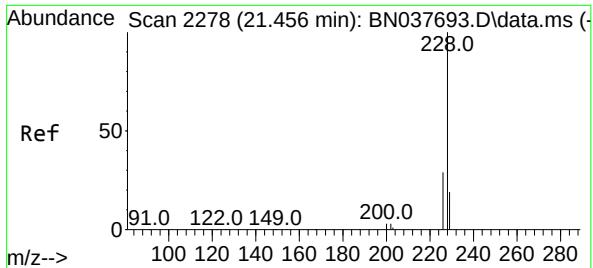
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.1	7.5	11.3
122	17.6	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.382 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.3	22.2	33.2
229	19.5	15.8	23.6

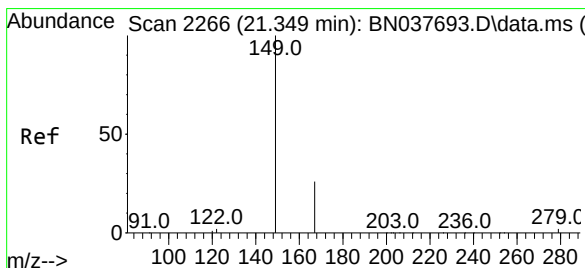
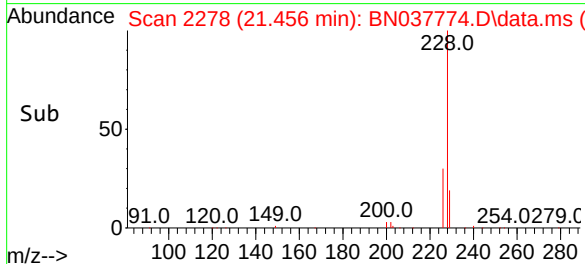
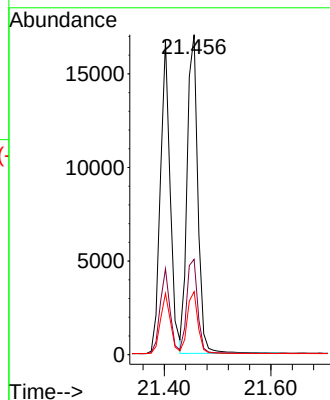
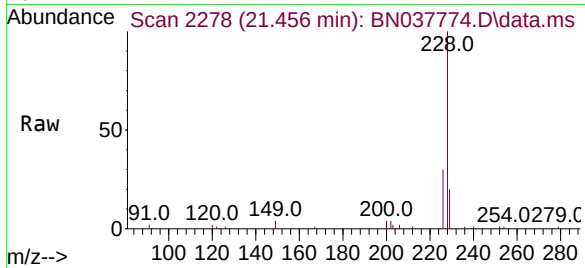




#33
Chrysene
Concen: 0.397 ng
RT: 21.456 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

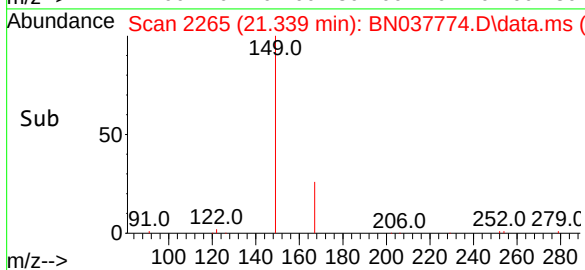
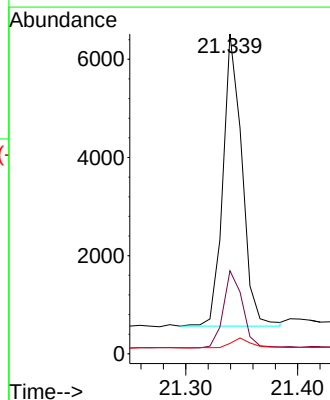
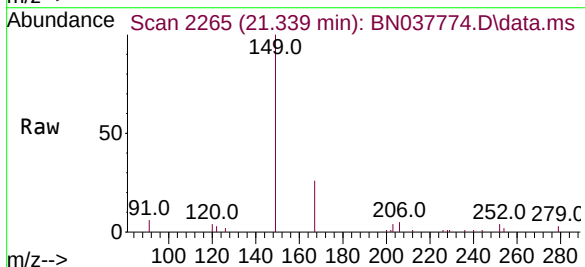
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

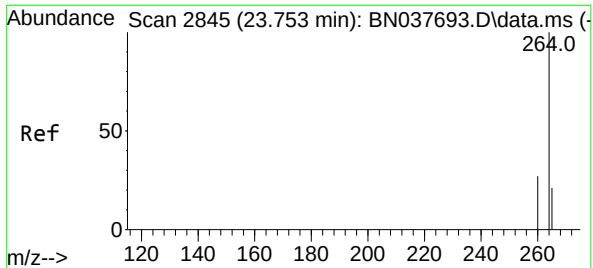
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.5	35.3
229	19.7	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.424 ng
RT: 21.339 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion	Ratio	Lower	Upper
149	100		
167	27.1	20.8	31.2
279	3.7	3.3	4.9

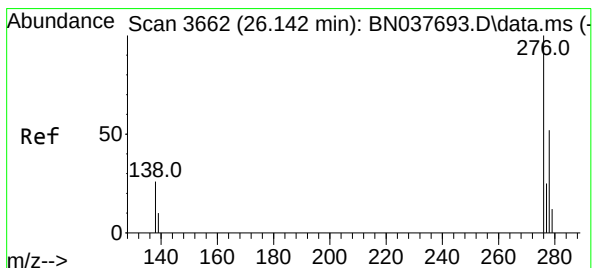
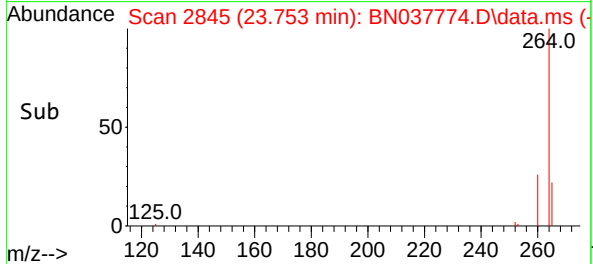
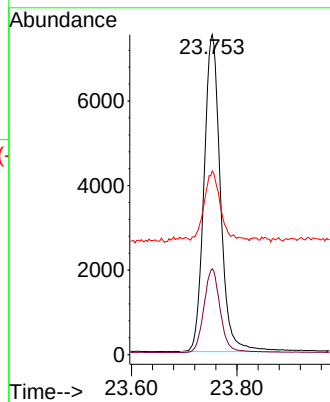
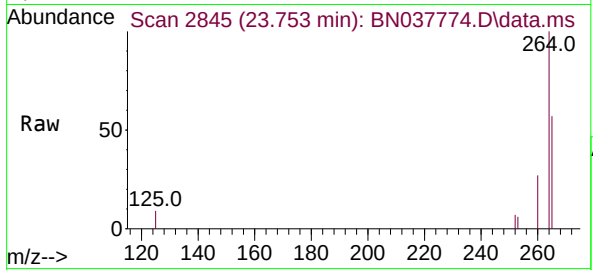




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.753 min Scan# 2845
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

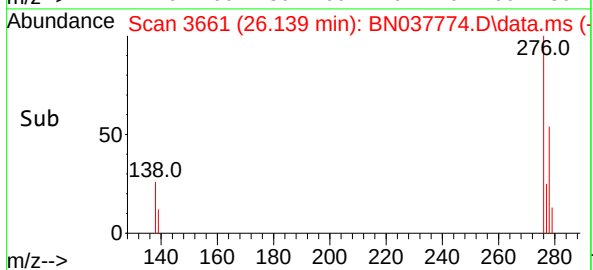
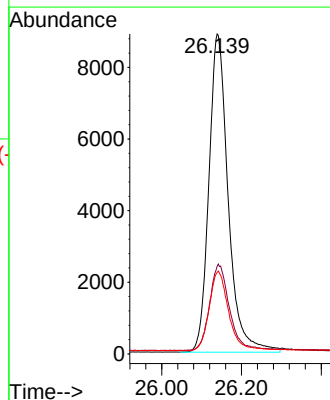
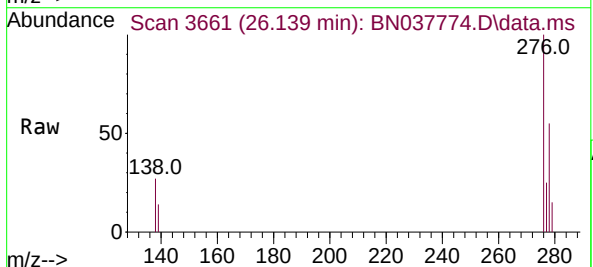
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

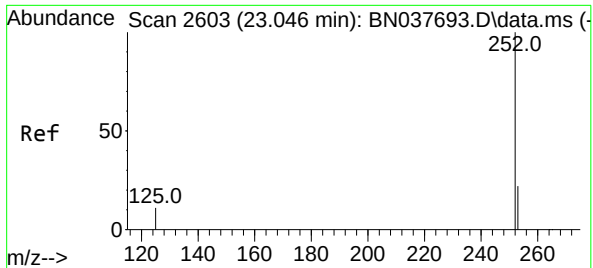
Tgt Ion:264 Resp: 16216
Ion Ratio Lower Upper
264 100
260 26.8 21.8 32.8
265 57.4 39.4 59.2



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.438 ng
RT: 26.139 min Scan# 3661
Delta R.T. -0.003 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:276 Resp: 29869
Ion Ratio Lower Upper
276 100
138 27.3 21.9 32.9
277 25.0 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.388 ng

RT: 23.046 min Scan# 2603

Delta R.T. -0.000 min

Lab File: BN037774.D

Acq: 18 Sep 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

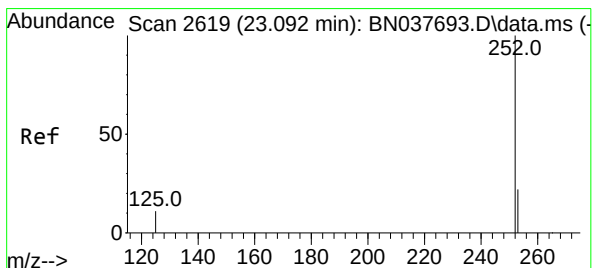
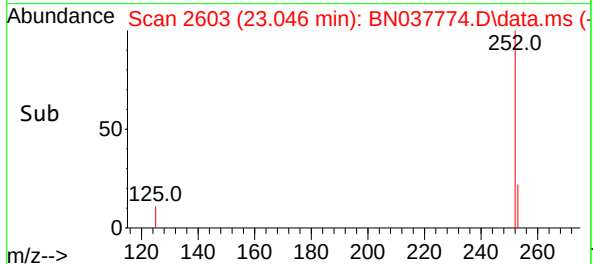
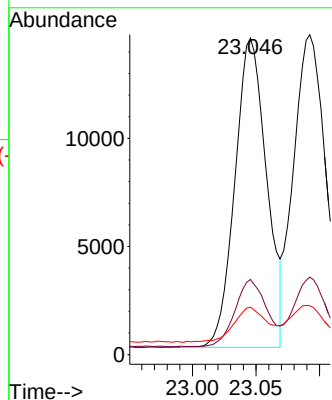
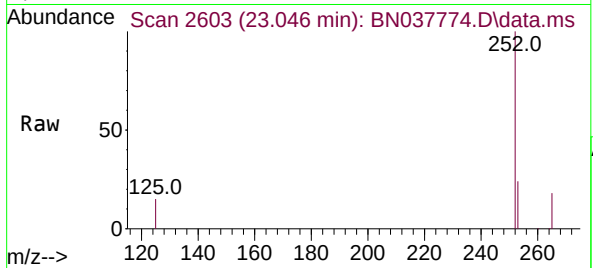
Tgt Ion:252 Resp: 24782

Ion Ratio Lower Upper

252 100

253 23.7 19.4 29.2

125 15.0 11.2 16.8



#38

Benzo(k)fluoranthene

Concen: 0.404 ng

RT: 23.092 min Scan# 2619

Delta R.T. -0.000 min

Lab File: BN037774.D

Acq: 18 Sep 2025 13:16

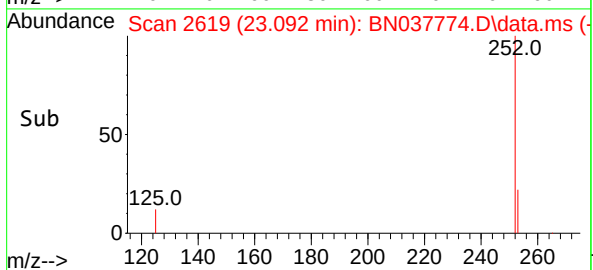
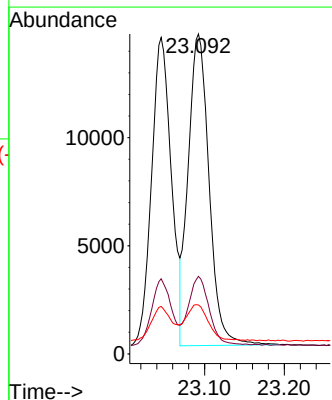
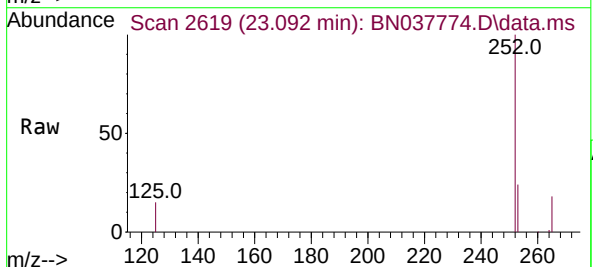
Tgt Ion:252 Resp: 26275

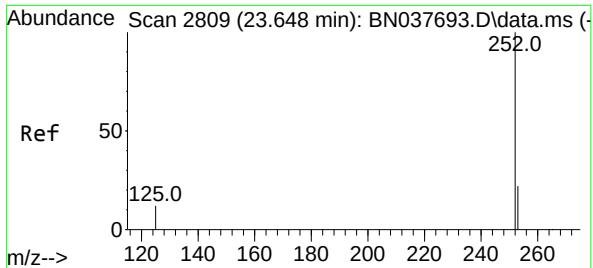
Ion Ratio Lower Upper

252 100

253 24.2 19.4 29.0

125 15.3 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.380 ng

RT: 23.648 min Scan# 2809

Delta R.T. -0.000 min

Lab File: BN037774.D

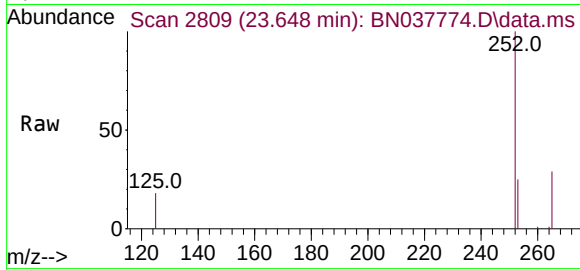
Acq: 18 Sep 2025 13:16

Instrument :

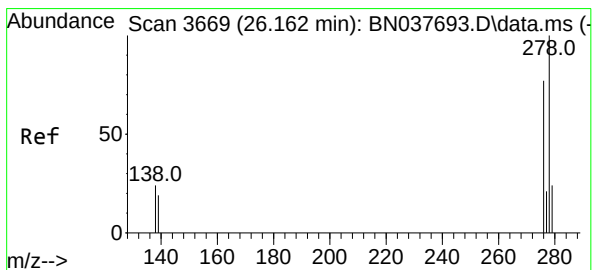
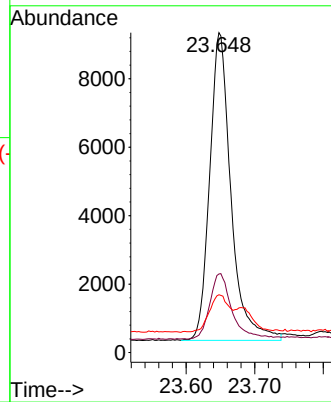
BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:	252	Resp:	19411
Ion Ratio	Lower	Upper	
252	100		
253	24.6	20.8	31.2
125	18.1	13.9	20.9



#40

Dibenzo(a,h)anthracene

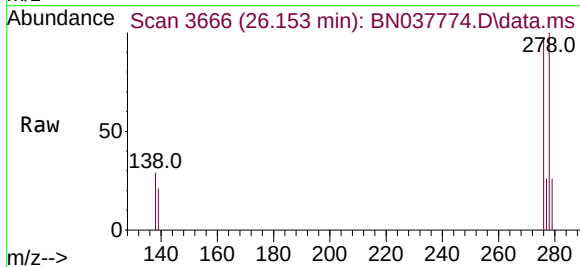
Concen: 0.442 ng

RT: 26.153 min Scan# 3666

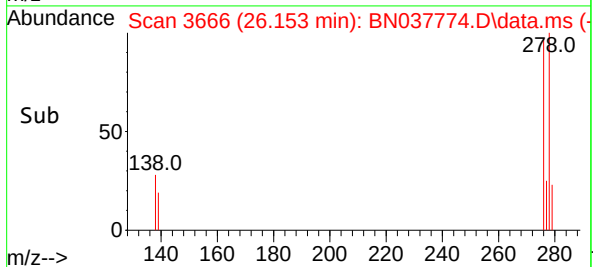
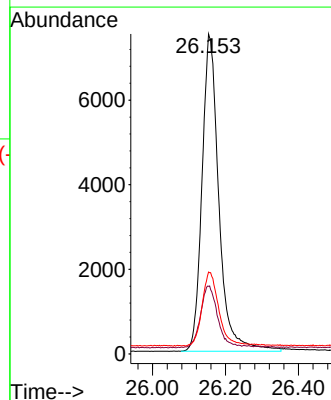
Delta R.T. -0.009 min

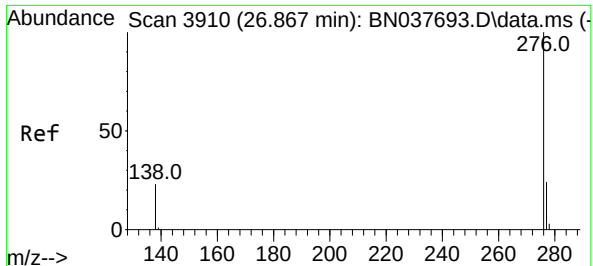
Lab File: BN037774.D

Acq: 18 Sep 2025 13:16



Tgt Ion:	278	Resp:	24050
Ion Ratio	Lower	Upper	
278	100		
139	21.1	17.8	26.6
279	25.6	22.0	33.0





#41

Benzo(g,h,i)perylene

Concen: 0.402 ng

RT: 26.867 min Scan# 3910

Delta R.T. -0.000 min

Lab File: BN037774.D

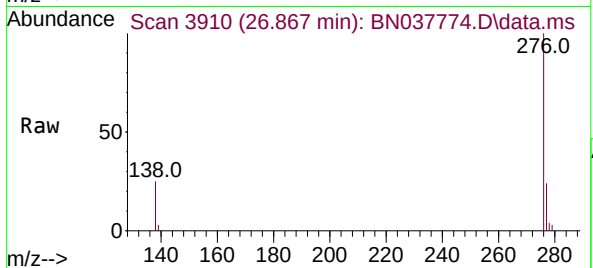
Acq: 18 Sep 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



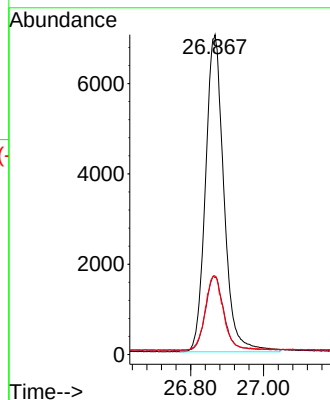
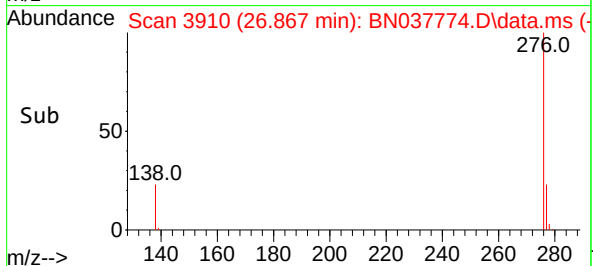
Tgt Ion:276 Resp: 24546

Ion Ratio Lower Upper

276 100

277 24.0 20.6 31.0

138 24.5 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
 Data File : BN037774.D
 Acq On : 18 Sep 2025 13:16
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 18 13:43:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	158#	0.00
2	1,4-Dioxane	0.417	0.425	-1.9	159#	0.00
3	n-Nitrosodimethylamine	0.544	0.518	4.8	145	0.00
4 S	2-Fluorophenol	0.918	0.915	0.3	162#	0.00
5 S	Phenol-d6	1.191	1.160	2.6	159#	0.00
6	bis(2-Chloroethyl)ether	1.064	1.058	0.6	156#	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	158#	0.00
8 S	Nitrobenzene-d5	0.293	0.296	-1.0	164#	0.00
9	Naphthalene	1.093	1.079	1.3	158#	0.01
10	Hexachlorobutadiene	0.198	0.192	3.0	153#	0.00
11 SURR	2-Methylnaphthalene-d10	0.530	0.506	4.5	160#	0.00
12	2-Methylnaphthalene	0.676	0.656	3.0	157#	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	157#	0.00
14 S	2,4,6-Tribromophenol	0.104	0.126	-21.2	197#	0.00
15 S	2-Fluorobiphenyl	1.673	1.646	1.6	157#	0.00
16	Acenaphthylene	1.834	1.745	4.9	154#	0.00
17	Acenaphthene	1.240	1.214	2.1	157#	0.00
18	Fluorene	1.502	1.459	2.9	159#	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	160#	0.00
20	4,6-Dinitro-2-methylphenol	0.037	0.037	0.0	180#	0.00
21	4-Bromophenyl-phenylether	0.261	0.249	4.6	159#	-0.01
22	Hexachlorobenzene	0.300	0.300	0.0	163#	0.00
23	Atrazine	0.166	0.161	3.0	171#	0.00
24	Pentachlorophenol	0.087	0.099	-13.8	214#	0.00
25	Phenanthrene	1.259	1.243	1.3	163#	0.00
26	Anthracene	1.116	1.057	5.3	158#	0.00
27 SURR	Fluoranthene-d10	1.004	0.949	5.5	163#	0.00
28	Fluoranthene	1.381	1.347	2.5	165#	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	171#	0.00
30	Pyrene	1.566	1.514	3.3	166#	0.00
31 S	Terphenyl-d14	0.812	0.758	6.7	162#	0.00
32	Benzo(a)anthracene	1.395	1.333	4.4	169#	0.00
33	Chrysene	1.496	1.486	0.7	170#	0.00
34	Bis(2-ethylhexyl)phthalate	0.414	0.438	-5.8	199#	0.00
35 I	Perylene-d12	1.000	1.000	0.0	181#	0.00
36	Indeno(1,2,3-cd)pyrene	1.681	1.842	-9.6	216#	0.00
37	Benzo(b)fluoranthene	1.575	1.528	3.0	178#	0.00
38	Benzo(k)fluoranthene	1.606	1.620	-0.9	192#	0.00
39 C	Benzo(a)pyrene	1.261	1.197	5.1	180#	0.00
40	Dibenzo(a,h)anthracene	1.342	1.483	-10.5	222#	0.00
41	Benzo(g,h,i)perylene	1.506	1.514	-0.5	189#	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
 Data File : BN037774.D
 Acq On : 18 Sep 2025 13:16
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 18 13:43:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	158	0.00
2	1,4-Dioxane	0.400	0.408	-2.0	159	0.00
3	n-Nitrosodimethylamine	0.400	0.381	4.8	145	0.00
4 S	2-Fluorophenol	0.400	0.399	0.3	162	0.00
5 S	Phenol-d6	0.400	0.390	2.5	159	0.00
6	bis(2-Chloroethyl)ether	0.400	0.398	0.5	156	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	158	0.00
8 S	Nitrobenzene-d5	0.400	0.405	-1.3	164	0.00
9	Naphthalene	0.400	0.395	1.3	158	0.01
10	Hexachlorobutadiene	0.400	0.388	3.0	153	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.382	4.5	160	0.00
12	2-Methylnaphthalene	0.400	0.388	3.0	157	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	157	0.00
14 S	2,4,6-Tribromophenol	0.400	0.485	-21.2	197	0.00
15 S	2-Fluorobiphenyl	0.400	0.394	1.5	157	0.00
16	Acenaphthylene	0.400	0.380	5.0	154	0.00
17	Acenaphthene	0.400	0.391	2.3	157	0.00
18	Fluorene	0.400	0.388	3.0	159	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	160	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.399	0.3	180	0.00
21	4-Bromophenyl-phenylether	0.400	0.383	4.3	159	-0.01
22	Hexachlorobenzene	0.400	0.400	0.0	163	0.00
23	Atrazine	0.400	0.389	2.8	171	0.00
24	Pentachlorophenol	0.400	0.457	-14.2	214	0.00
25	Phenanthrene	0.400	0.395	1.3	163	0.00
26	Anthracene	0.400	0.379	5.3	158	0.00
27 SURR	Fluoranthene-d10	0.400	0.378	5.5	163	0.00
28	Fluoranthene	0.400	0.390	2.5	165	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	171	0.00
30	Pyrene	0.400	0.387	3.3	166	0.00
31 S	Terphenyl-d14	0.400	0.373	6.8	162	0.00
32	Benzo(a)anthracene	0.400	0.382	4.5	169	0.00
33	Chrysene	0.400	0.397	0.8	170	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.424	-6.0	199	0.00
35 I	Perylene-d12	0.400	0.400	0.0	181	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.438	-9.5	216	0.00
37	Benzo(b)fluoranthene	0.400	0.388	3.0	178	0.00
38	Benzo(k)fluoranthene	0.400	0.404	-1.0	192	0.00
39 C	Benzo(a)pyrene	0.400	0.380	5.0	180	0.00
40	Dibenzo(a,h)anthracene	0.400	0.442	-10.5	222	0.00
41	Benzo(g,h,i)perylene	0.400	0.402	-0.5	189	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: AECO15
 Lab Code: ACE SDG No.: Q3095
 Instrument ID: BNA_N Calibration Date/Time: 09/18/2025 14:32
 Lab File ID: BN037776.D Init. Calib. Date(s): 09/11/2025 09/11/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 09:56 13:33
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.497		-6.2	20.0
Fluoranthene-d10	1.004	0.839		-16.4	20.0
2-Fluorophenol	0.918	0.890		-3.0	20.0
Phenol-d6	1.191	1.130		-5.1	20.0
Nitrobenzene-d5	0.293	0.298		1.7	20.0
2-Fluorobiphenyl	1.673	1.679		0.4	20.0
2,4,6-Tribromophenol	0.104	0.114		9.6	20.0
Terphenyl-d14	0.812	0.801		-1.4	20.0
1,4-Dioxane	0.417	0.428		2.6	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
 Data File : BN037776.D
 Acq On : 18 Sep 2025 14:32
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Sep 18 15:01:11 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

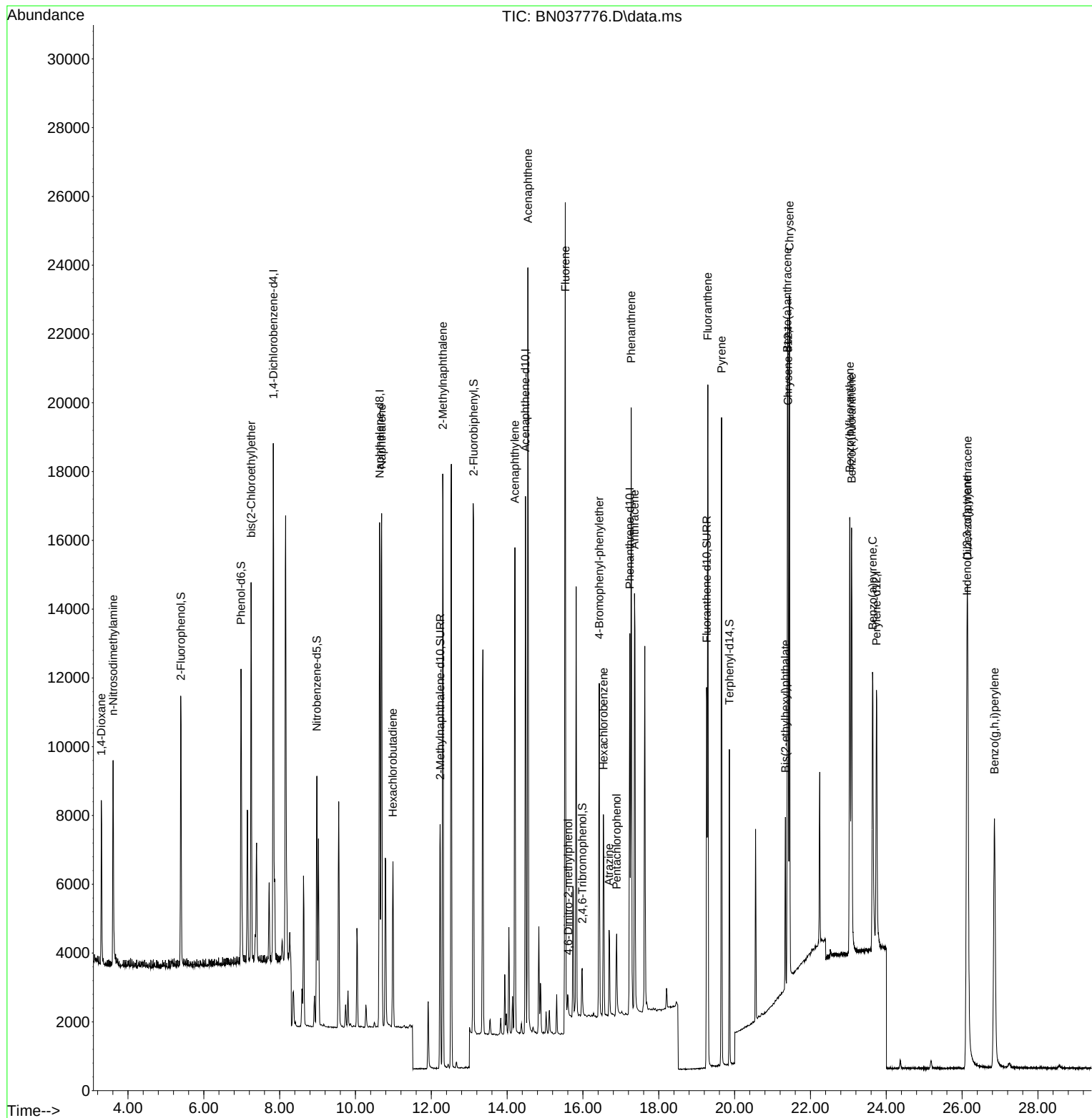
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7127	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	18984	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	8698	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	14526	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	10438	0.400	ng	# 0.00
35) Perylene-d12	23.744	264	10600	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	6346	0.388	ng	0.00
5) Phenol-d6	6.980	99	8055	0.380	ng	0.00
8) Nitrobenzene-d5	8.982	82	5651	0.407	ng	-0.01
11) 2-Methylnaphthalene-d10	12.232	152	9430	0.375	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	988	0.436	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	14602	0.401	ng	0.00
27) Fluoranthene-d10	19.262	212	12188	0.334	ng	0.00
31) Terphenyl-d14	19.861	244	8356	0.394	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.297	88	3048	0.411	ng	94
3) n-Nitrosodimethylamine	3.608	42	3658	0.377	ng	# 90
6) bis(2-Chloroethyl)ether	7.248	93	7546	0.398	ng	100
9) Naphthalene	10.690	128	20305	0.391	ng	99
10) Hexachlorobutadiene	10.989	225	3759	0.400	ng	# 100
12) 2-Methylnaphthalene	12.303	142	12427	0.387	ng	99
16) Acenaphthylene	14.206	152	15171	0.380	ng	100
17) Acenaphthene	14.548	154	10490	0.389	ng	97
18) Fluorene	15.535	166	12152	0.372	ng	100
20) 4,6-Dinitro-2-methylph...	15.609	198	454	0.337	ng	96
21) 4-Bromophenyl-phenylether	16.429	248	3832	0.405	ng	# 86
22) Hexachlorobenzene	16.540	284	4737	0.435	ng	99
23) Atrazine	16.689	200	2300	0.382	ng	# 90
24) Pentachlorophenol	16.888	266	1384	0.438	ng	95
25) Phenanthrene	17.273	178	17751	0.388	ng	99
26) Anthracene	17.359	178	15208	0.375	ng	99
28) Fluoranthene	19.294	202	17450	0.348	ng	100
30) Pyrene	19.657	202	17087	0.418	ng	100
32) Benzo(a)anthracene	21.393	228	13864	0.381	ng	99
33) Chrysene	21.447	228	15945	0.408	ng	99
34) Bis(2-ethylhexyl)phtha...	21.339	149	4553	0.422	ng	100
36) Indeno(1,2,3-cd)pyrene	26.127	276	19472	0.437	ng	100
37) Benzo(b)fluoranthene	23.037	252	16161	0.387	ng	# 97
38) Benzo(k)fluoranthene	23.086	252	17089	0.402	ng	97
39) Benzo(a)pyrene	23.642	252	13152	0.394	ng	# 95
40) Dibenzo(a,h)anthracene	26.145	278	15512	0.436	ng	99
41) Benzo(g,h,i)perylene	26.855	276	16486	0.413	ng	99

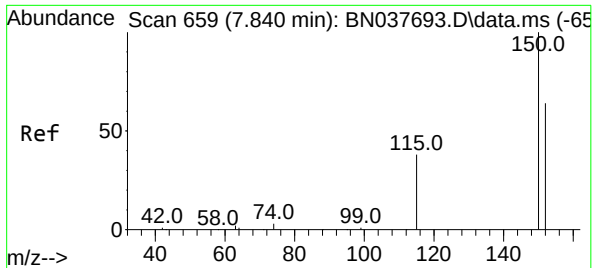
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037776.D
Acq On : 18 Sep 2025 14:32
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 18 15:01:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

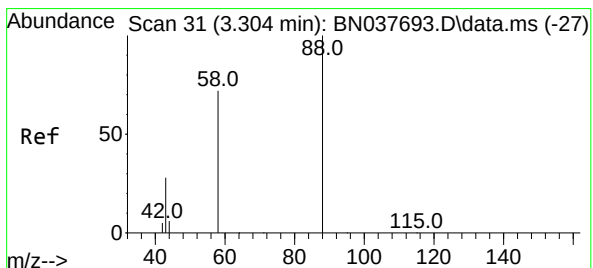
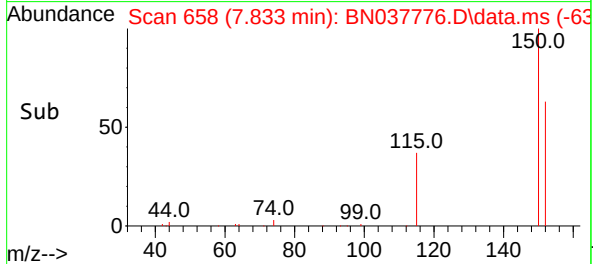
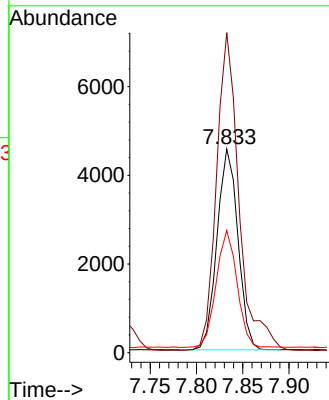
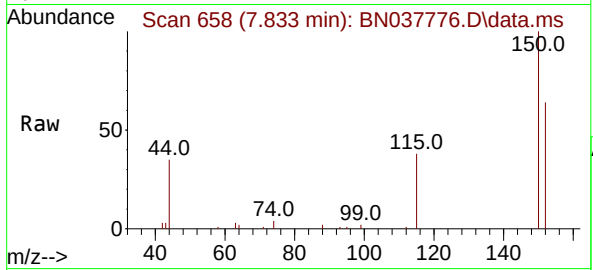




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

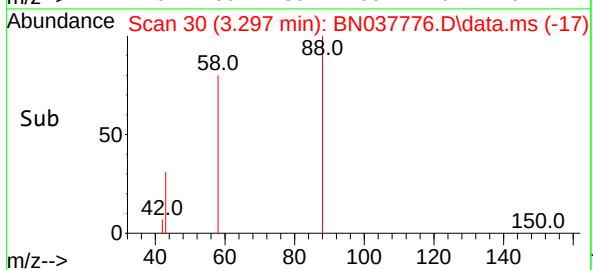
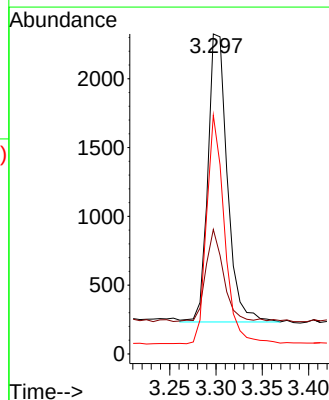
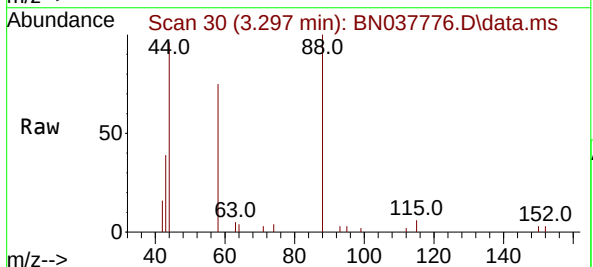
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

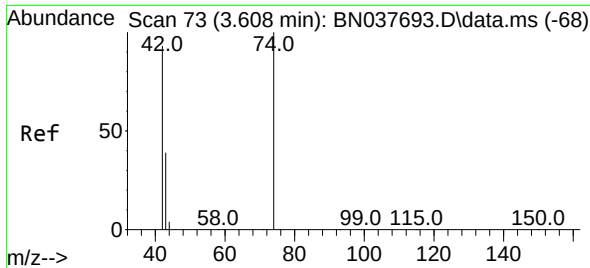
Tgt Ion:152 Resp: 7127
Ion Ratio Lower Upper
152 100
150 157.1 124.5 186.7
115 60.0 49.2 73.8



#2
1,4-Dioxane
Concen: 0.411 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion: 88 Resp: 3048
Ion Ratio Lower Upper
88 100
43 29.1 26.8 40.2
58 73.0 61.9 92.9

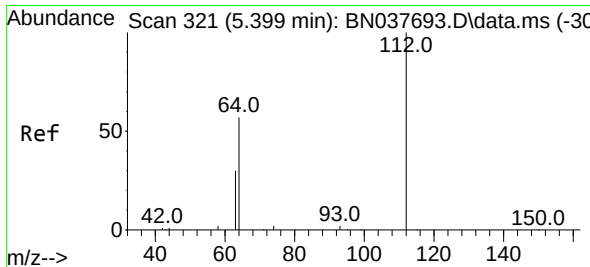
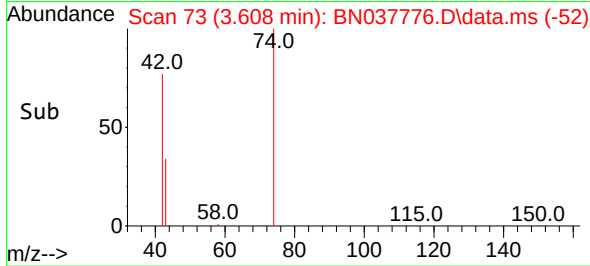
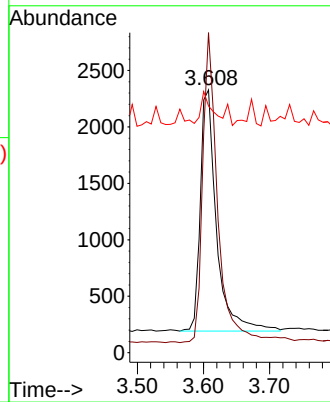
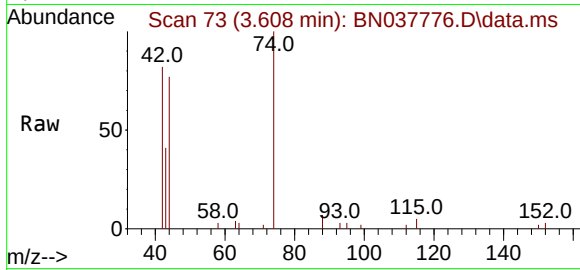




#3
n-Nitrosodimethylamine
Concen: 0.377 ng
RT: 3.608 min Scan# 73
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

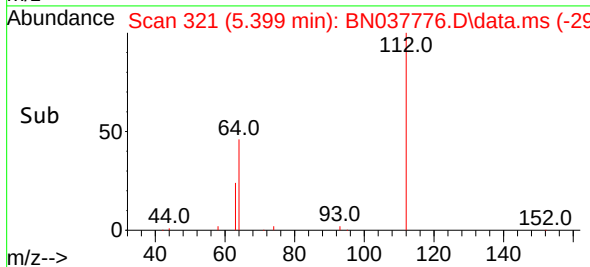
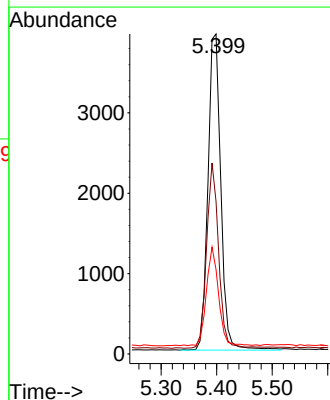
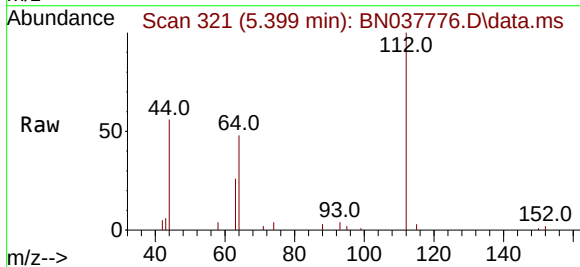
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

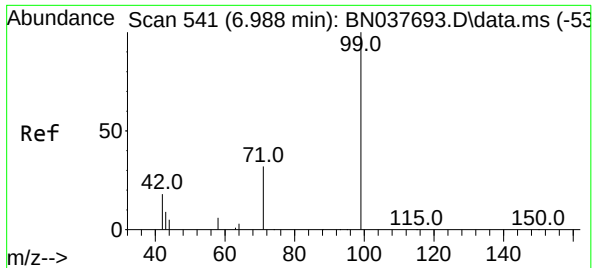
Tgt Ion: 42 Resp: 3658
Ion Ratio Lower Upper
42 100
74 118.6 86.0 129.0
44 8.4 8.4 12.6#



#4
2-Fluorophenol
Concen: 0.388 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion: 112 Resp: 6346
Ion Ratio Lower Upper
112 100
64 54.2 44.9 67.3
63 29.2 24.7 37.1

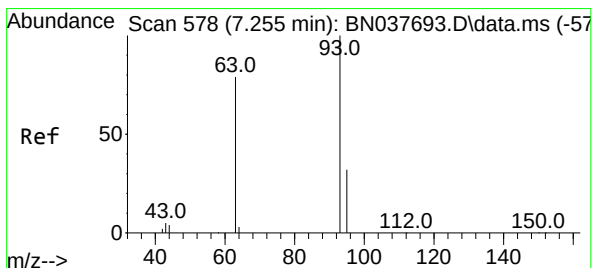
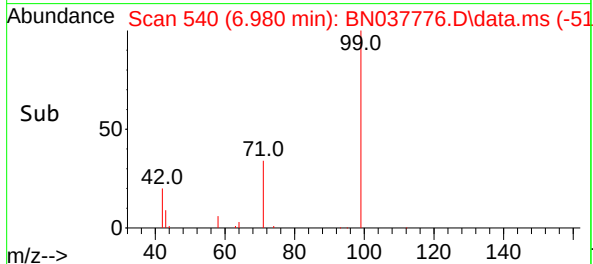
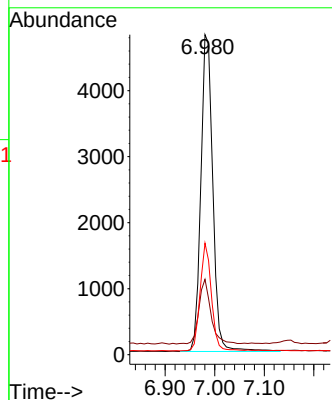
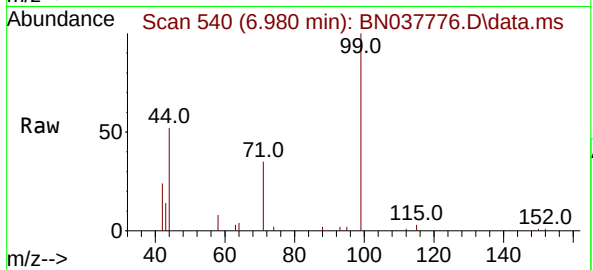




#5
Phenol-d6
Concen: 0.380 ng
RT: 6.980 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

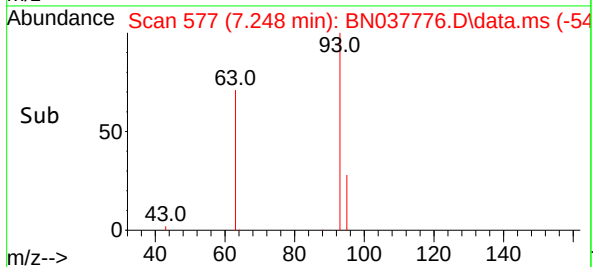
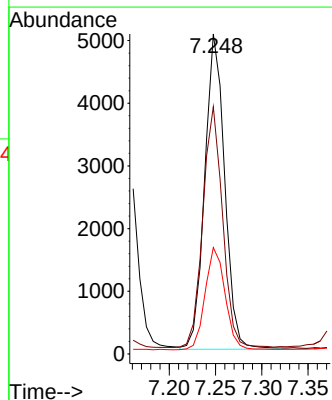
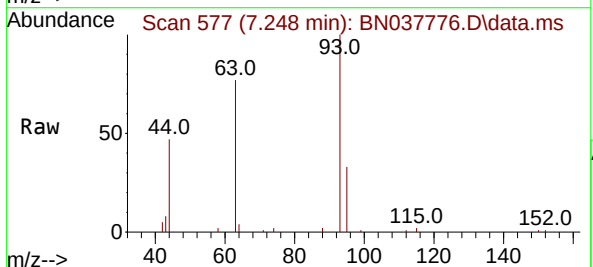
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

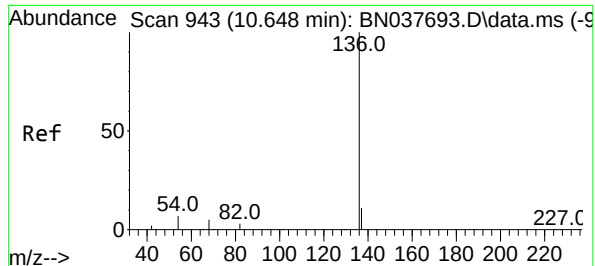
Tgt Ion: 99 Resp: 8055
Ion Ratio Lower Upper
99 100
42 20.9 16.6 24.8
71 32.2 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.398 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion: 93 Resp: 7546
Ion Ratio Lower Upper
93 100
63 75.4 60.6 90.8
95 32.5 26.0 39.0

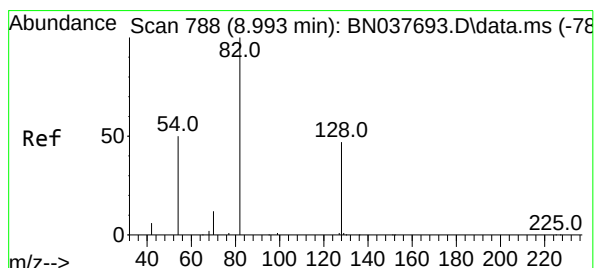
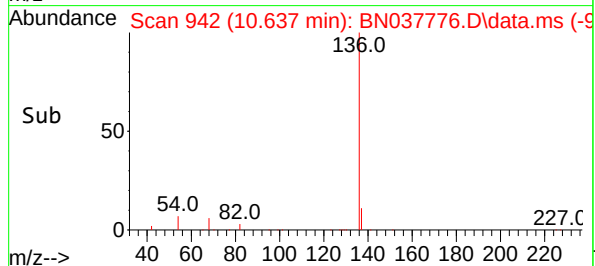
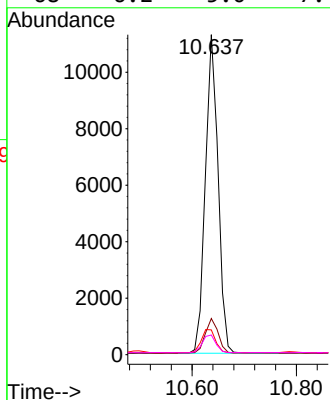
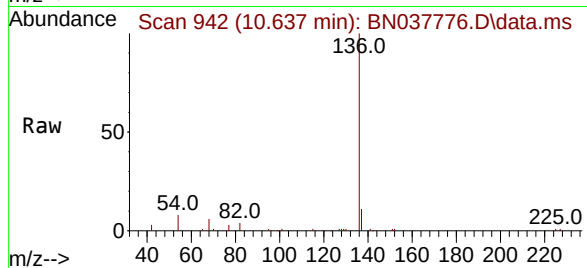




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

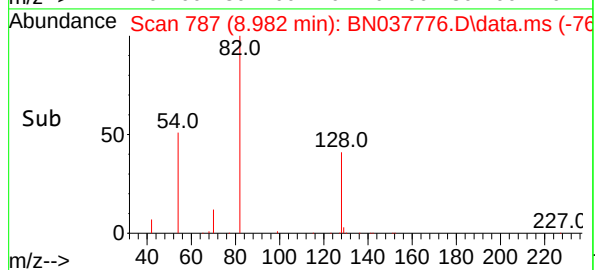
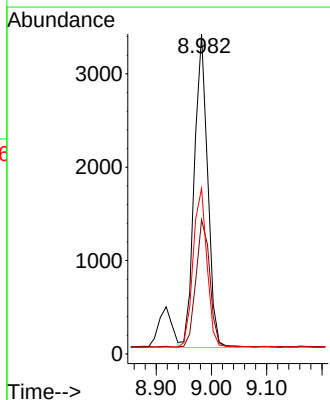
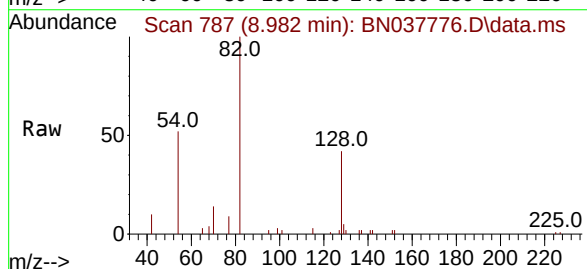
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

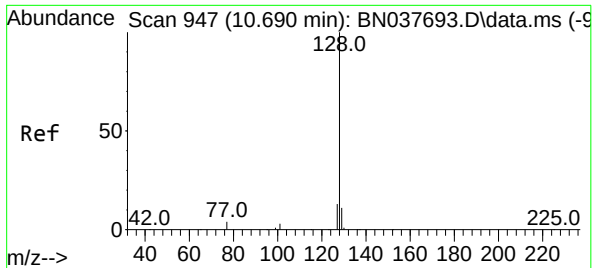
Tgt Ion:	136	Resp:	18984
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.1	13.7
54	7.7	6.3	9.5
68	6.2	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.407 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:	82	Resp:	5651
Ion Ratio	Lower	Upper	
82	100		
128	42.0	38.3	57.5
54	51.8	41.4	62.2

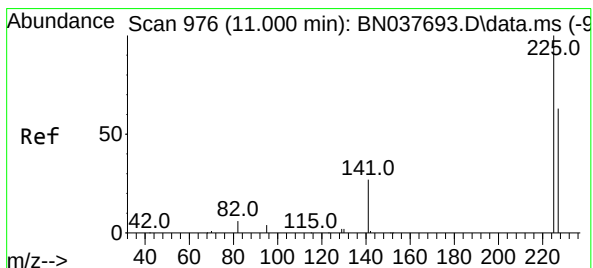
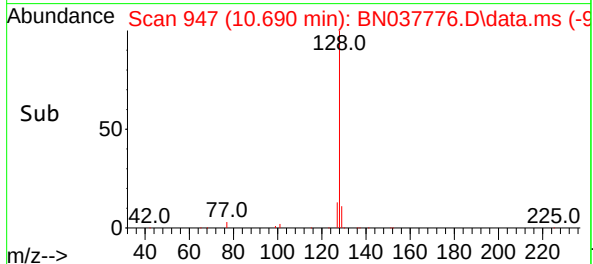
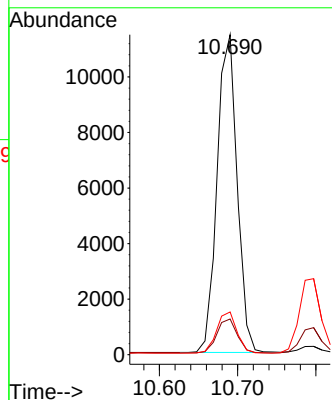
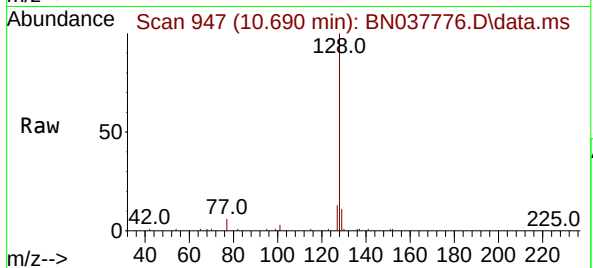




#9
Naphthalene
Concen: 0.391 ng
RT: 10.690 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

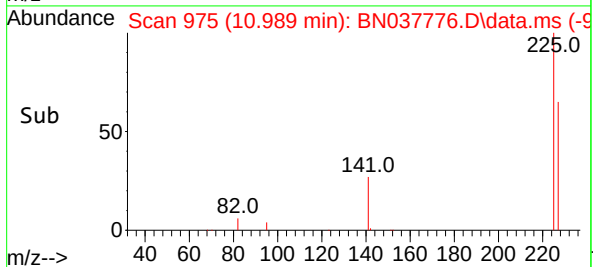
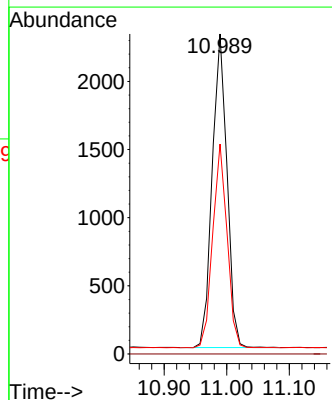
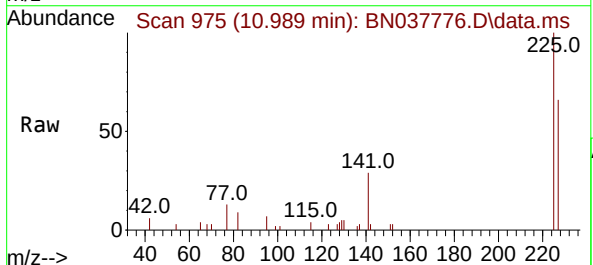
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

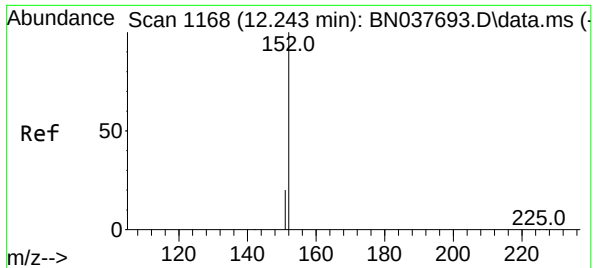
Tgt Ion:128 Resp: 20305
Ion Ratio Lower Upper
128 100
129 11.1 9.1 13.7
127 13.3 10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.400 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:225 Resp: 3759
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 50.9 76.3

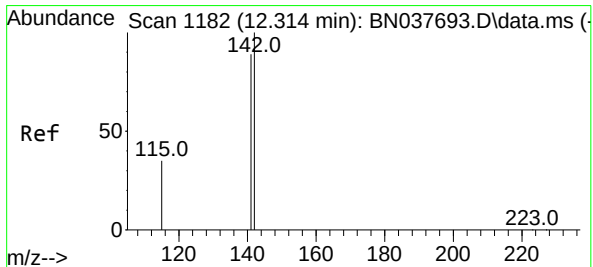
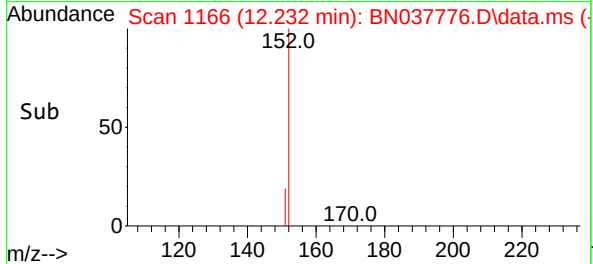
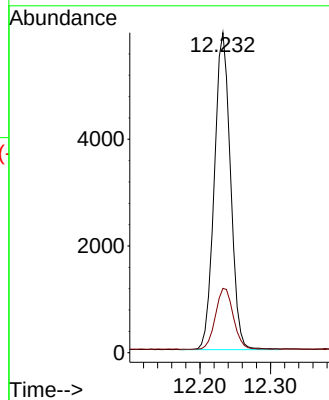
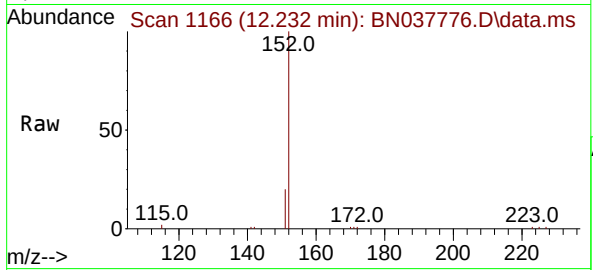




#11
2-Methylnaphthalene-d10
Concen: 0.375 ng
RT: 12.232 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

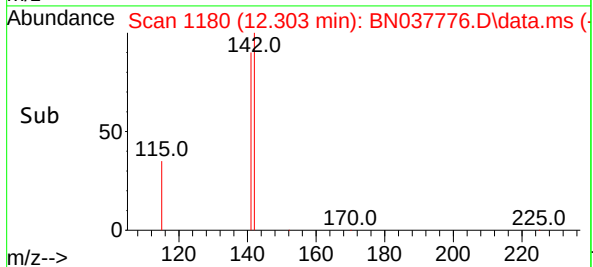
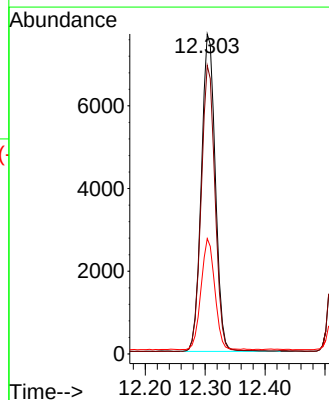
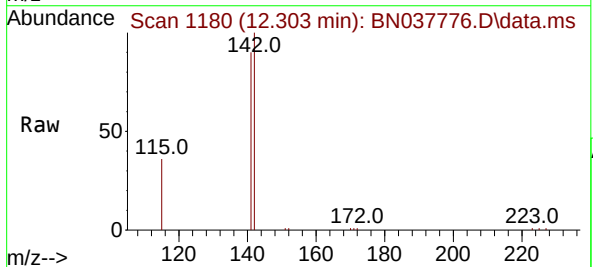
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

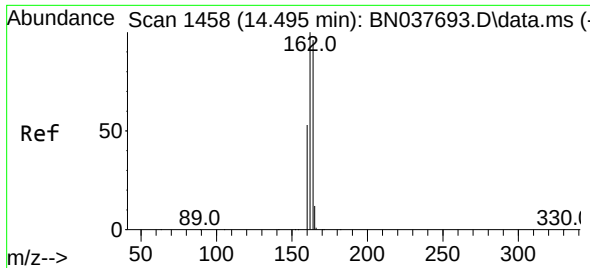
Tgt Ion:152 Resp: 9430
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.387 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:142 Resp: 12427
Ion Ratio Lower Upper
142 100
141 90.2 71.6 107.4
115 36.1 28.6 43.0

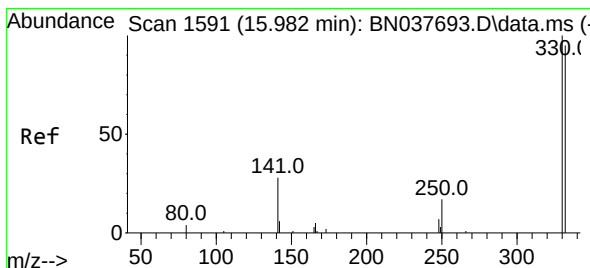
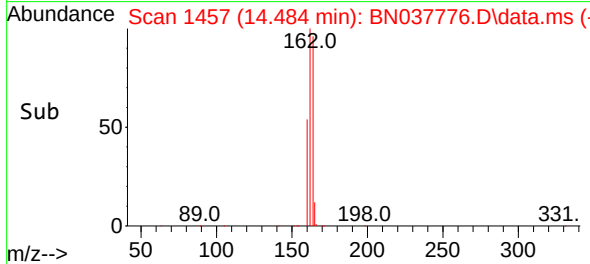
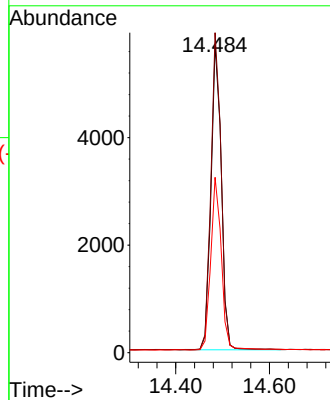
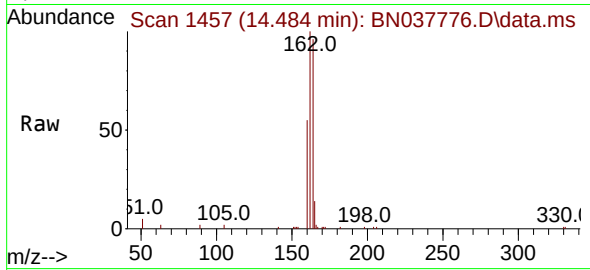




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

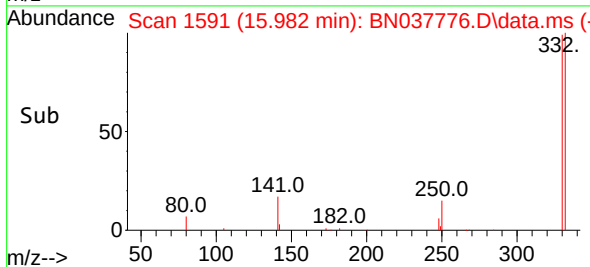
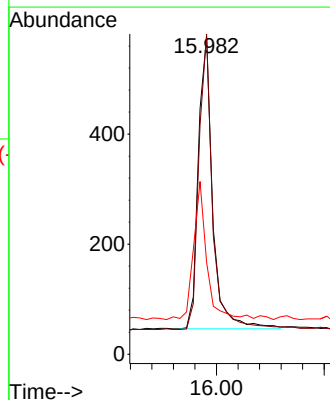
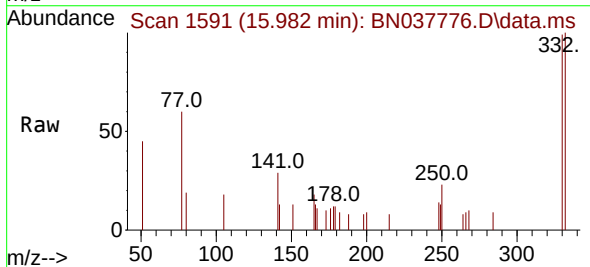
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

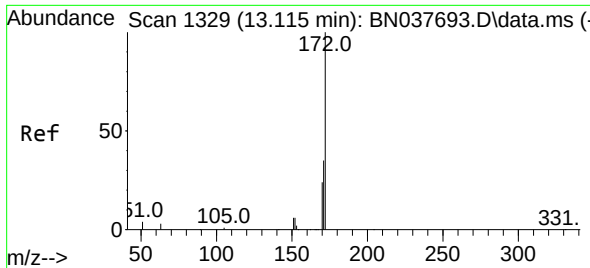
Tgt Ion:164 Resp: 8698
Ion Ratio Lower Upper
164 100
162 103.8 83.1 124.7
160 56.9 44.3 66.5



#14
2,4,6-Tribromophenol
Concen: 0.436 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:330 Resp: 988
Ion Ratio Lower Upper
330 100
332 96.3 75.3 112.9
141 42.6 35.0 52.4

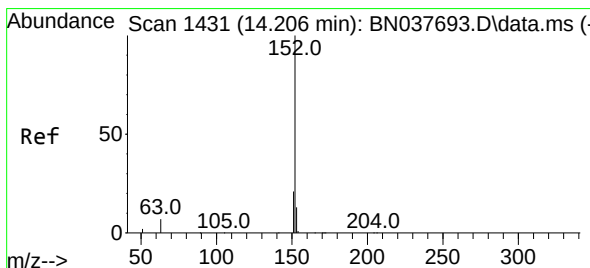
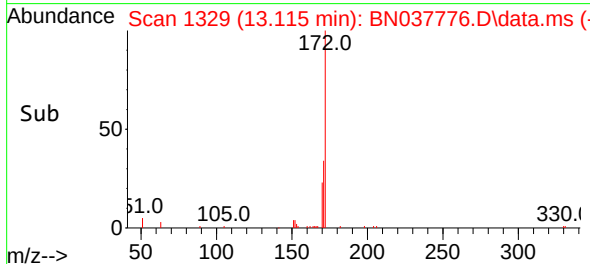
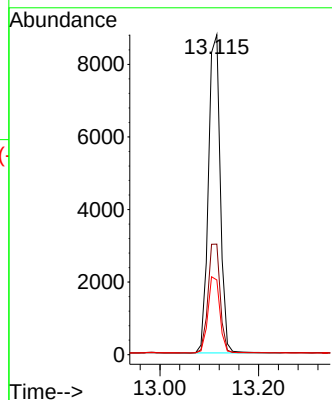
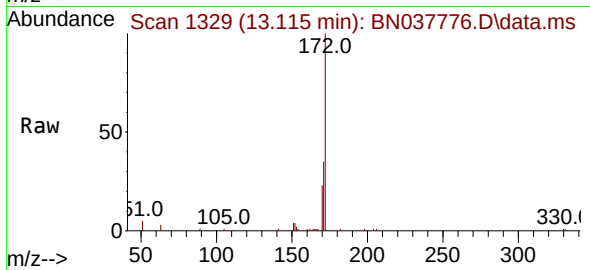




#15
2-Fluorobiphenyl
Concen: 0.401 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

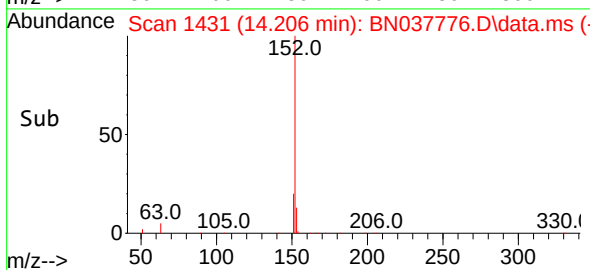
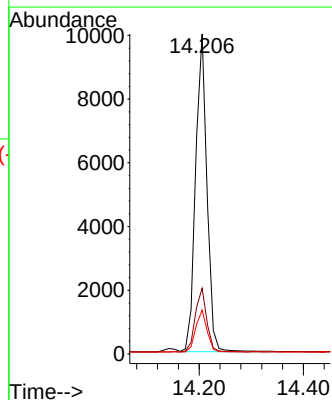
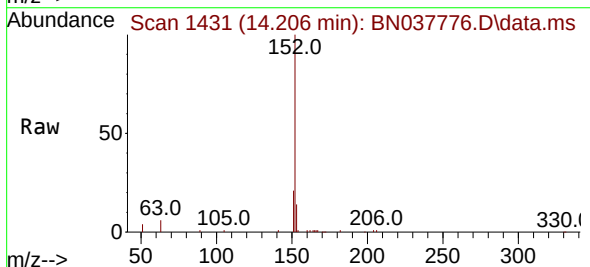
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

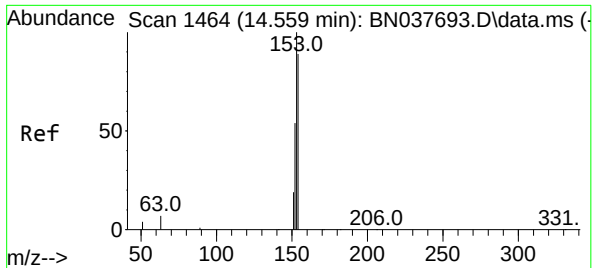
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.6	28.6	43.0
170	23.3	19.8	29.8



#16
Acenaphthylene
Concen: 0.380 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	13.1	10.4	15.6

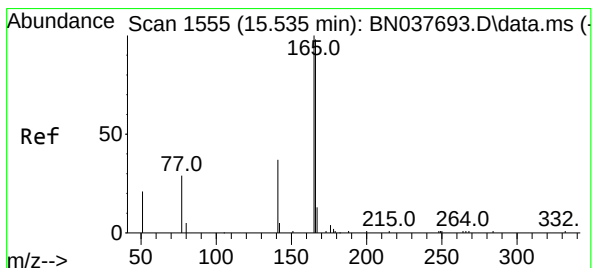
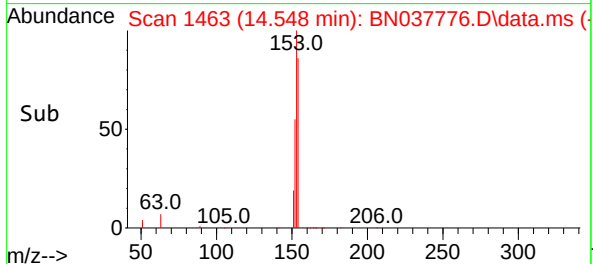
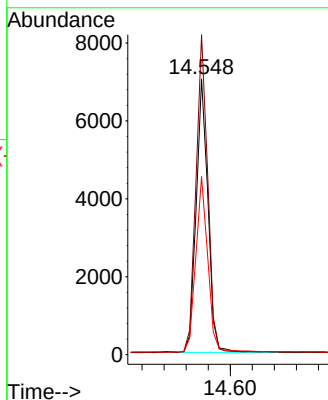
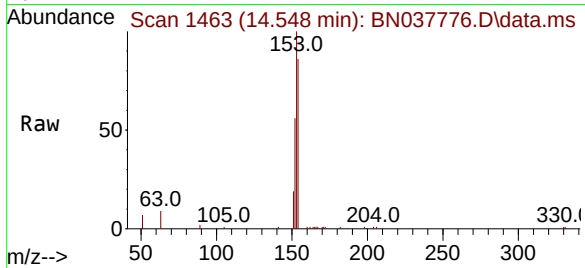




#17
Acenaphthene
Concen: 0.389 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

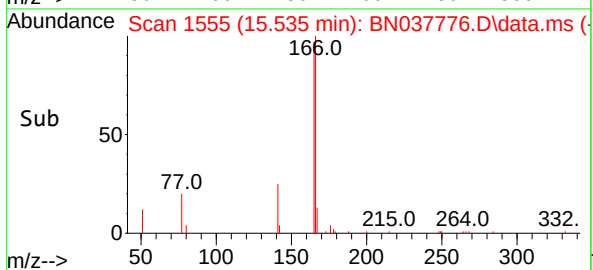
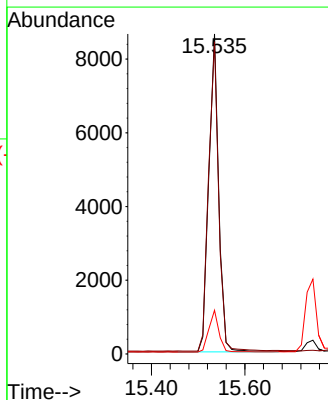
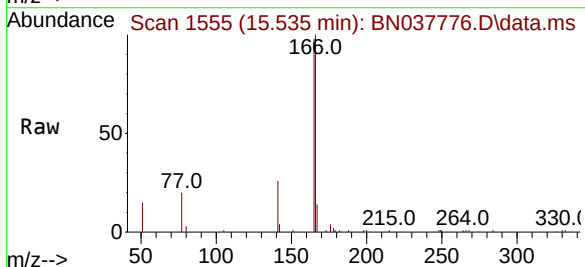
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

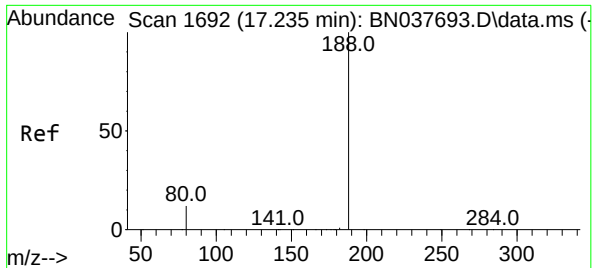
Tgt Ion:154 Resp: 10490
Ion Ratio Lower Upper
154 100
153 115.3 89.8 134.8
152 65.9 50.2 75.2



#18
Fluorene
Concen: 0.372 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:166 Resp: 12152
Ion Ratio Lower Upper
166 100
165 99.6 79.6 119.4
167 13.5 10.6 16.0

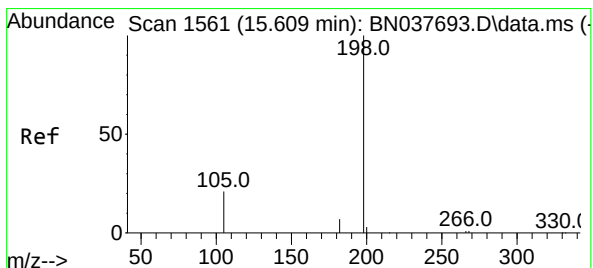
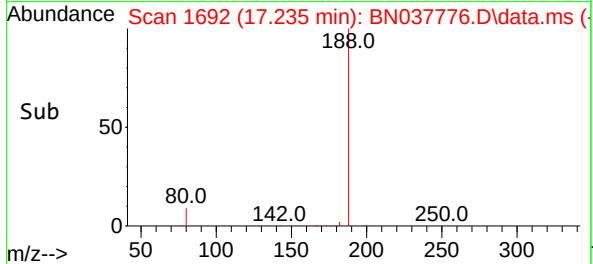
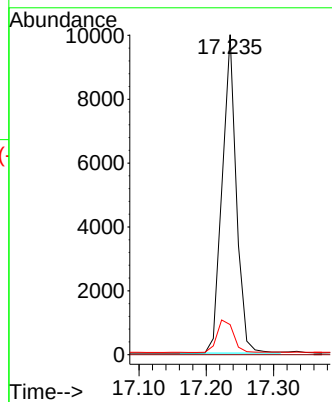
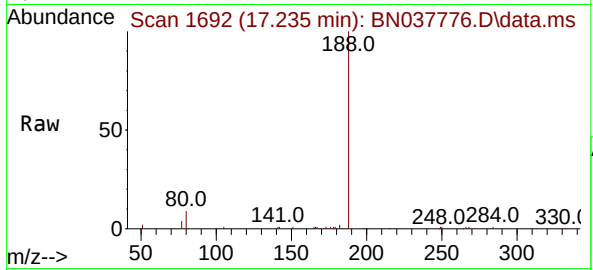




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

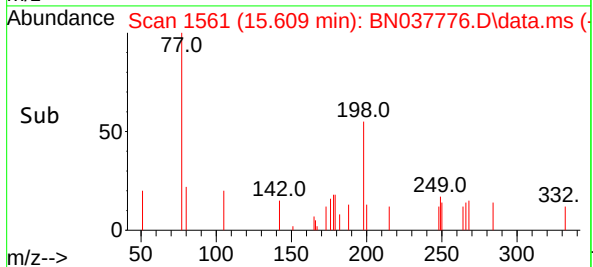
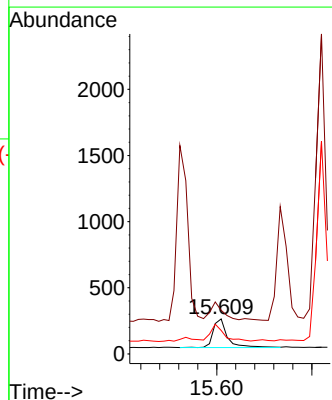
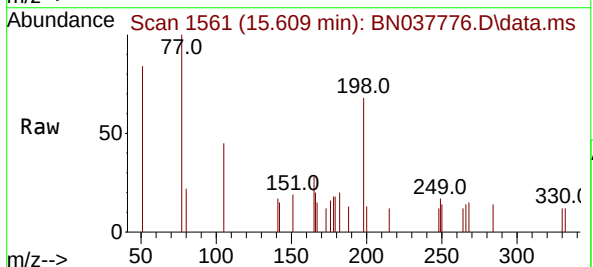
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

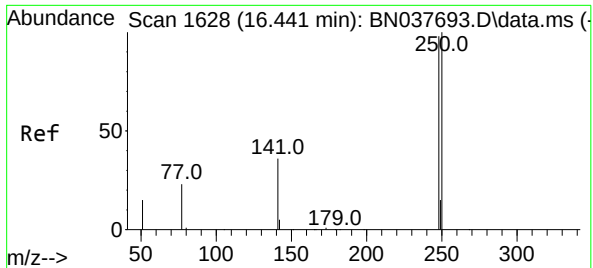
Tgt Ion:188 Resp: 14526
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.4 10.6 15.8#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.337 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:198 Resp: 454
Ion Ratio Lower Upper
198 100
51 125.0 95.1 142.7
105 67.0 53.8 80.6

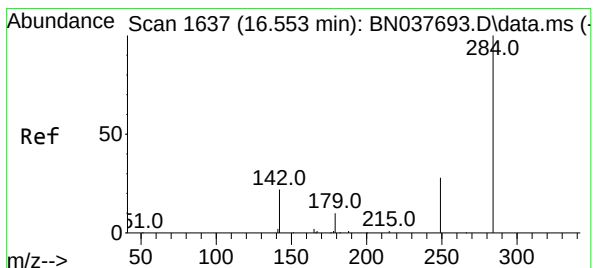
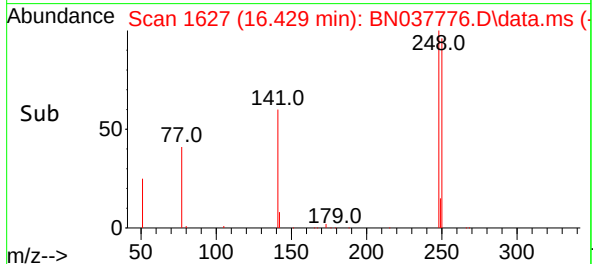
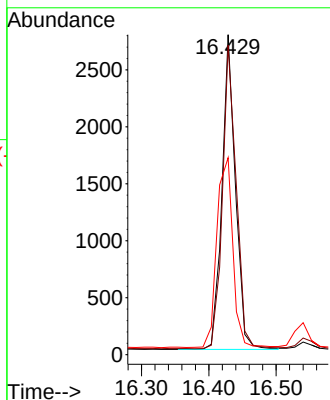
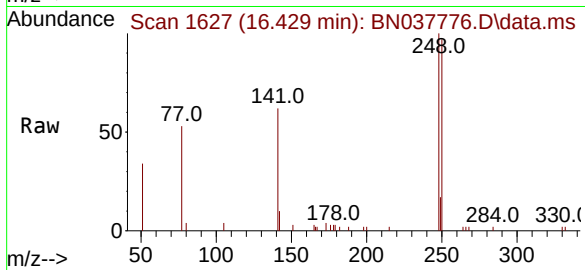




#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 16.429 min Scan# 1635
Delta R.T. -0.013 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

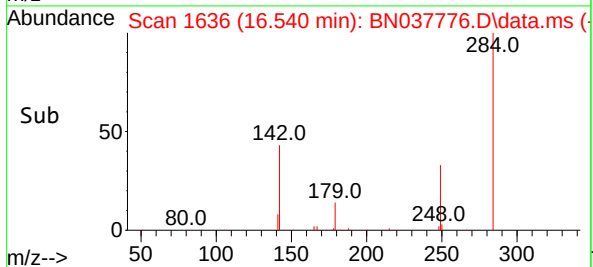
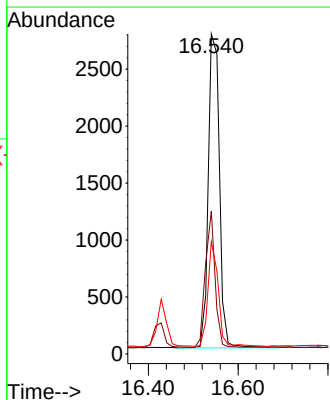
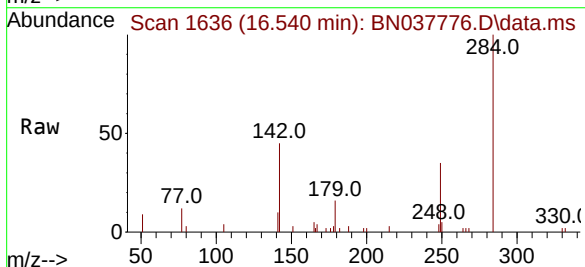
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

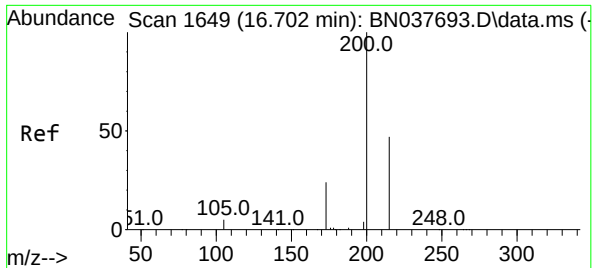
Tgt Ion	Ratio	Lower	Upper
248	100		
250	96.7	81.5	122.3
141	61.6	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.435 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.4	30.9	46.3
249	31.0	24.8	37.2

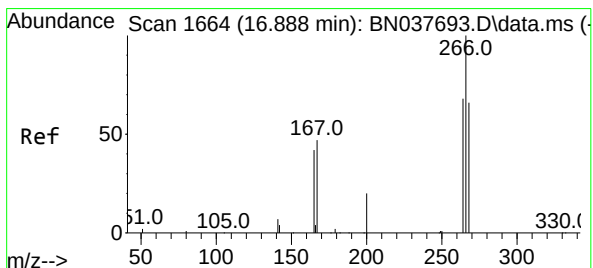
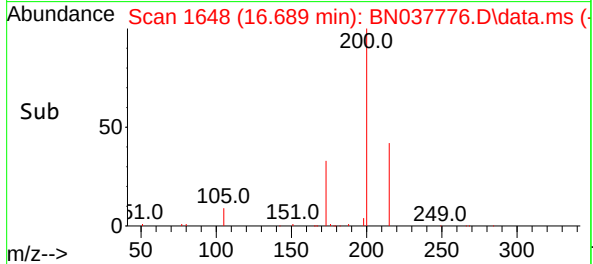
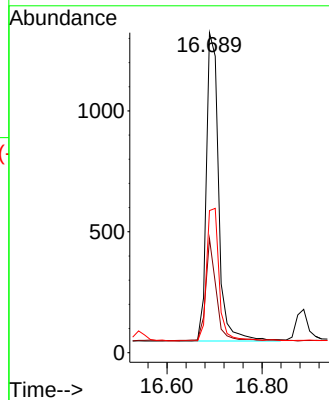
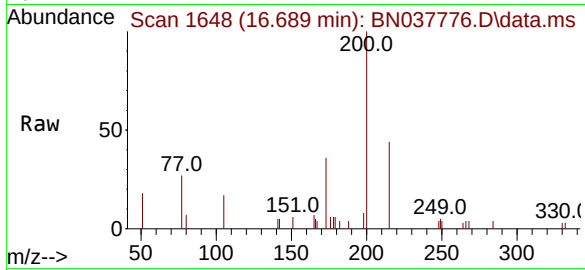




#23
Atrazine
Concen: 0.382 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.013 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

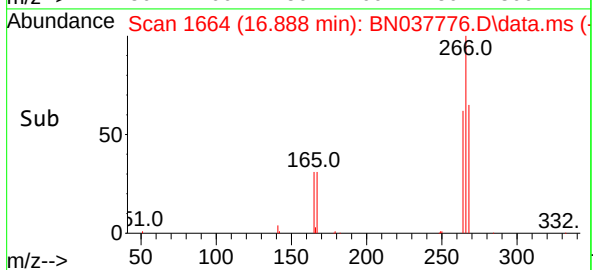
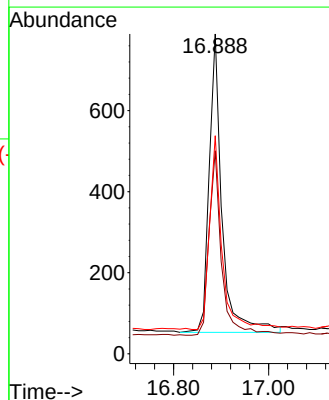
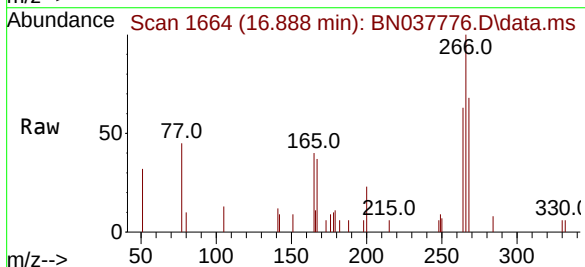
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

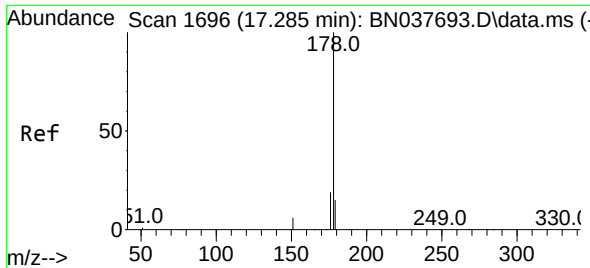
Tgt Ion:200 Resp: 2300
Ion Ratio Lower Upper
200 100
173 35.6 21.4 32.2#
215 44.4 39.2 58.8



#24
Pentachlorophenol
Concen: 0.438 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:266 Resp: 1384
Ion Ratio Lower Upper
266 100
264 60.4 51.6 77.4
268 63.2 53.2 79.8

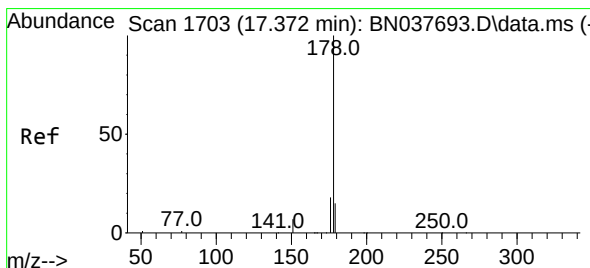
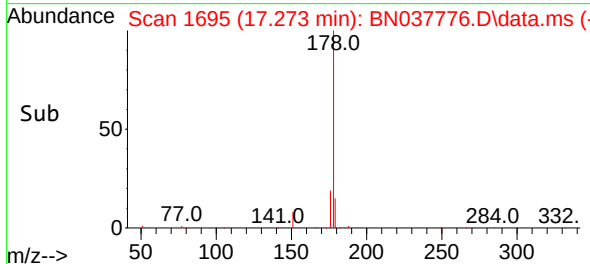
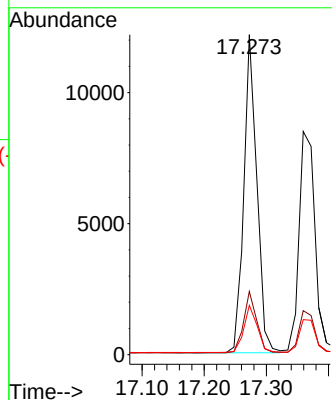
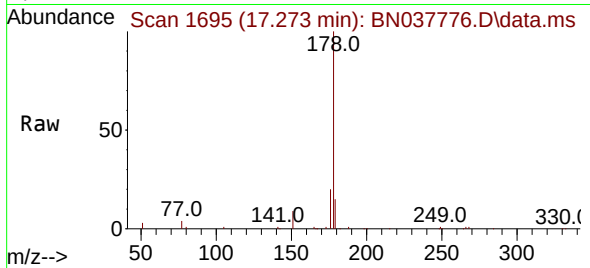




#25
Phenanthrene
Concen: 0.388 ng
RT: 17.273 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

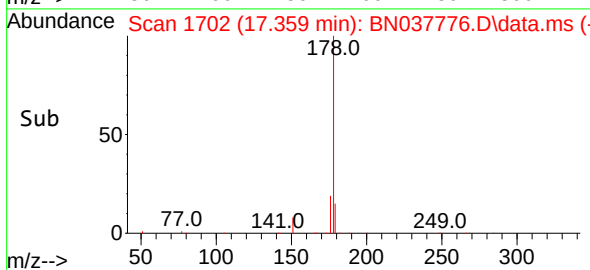
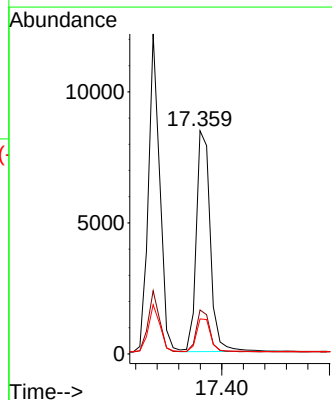
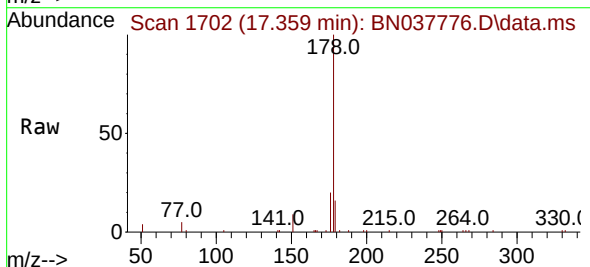
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

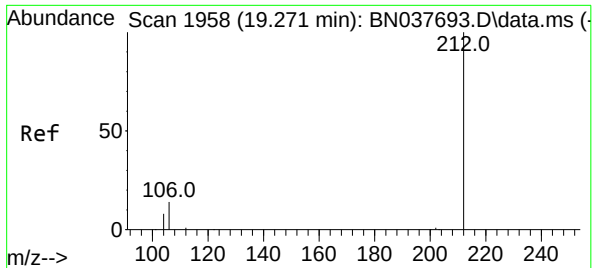
Tgt Ion:178 Resp: 17751
Ion Ratio Lower Upper
178 100
176 19.3 15.3 22.9
179 15.5 12.2 18.2



#26
Anthracene
Concen: 0.375 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:178 Resp: 15208
Ion Ratio Lower Upper
178 100
176 18.7 14.6 22.0
179 15.4 12.2 18.4

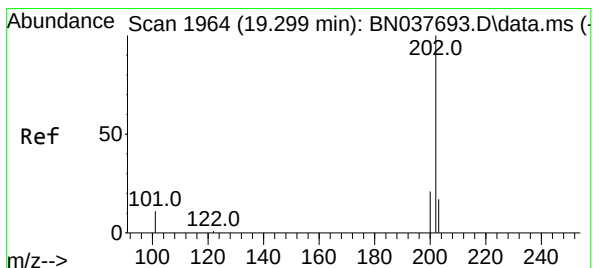
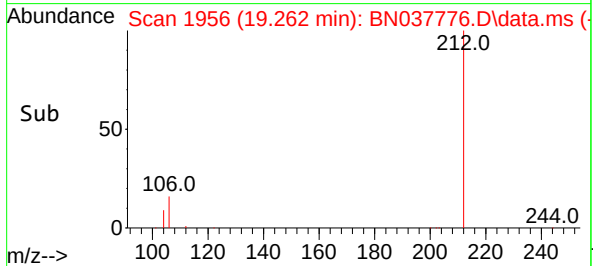
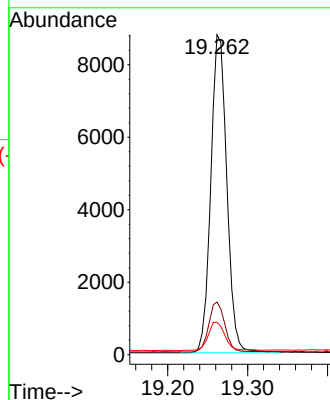
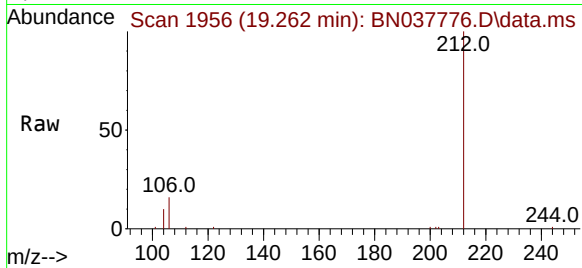




#27
Fluoranthene-d10
Concen: 0.334 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

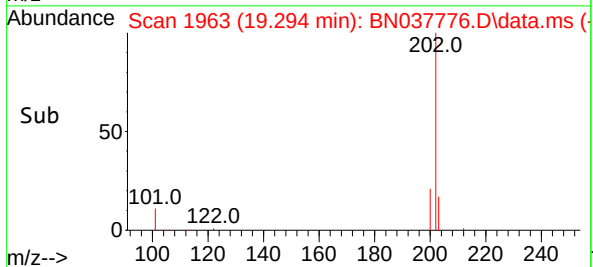
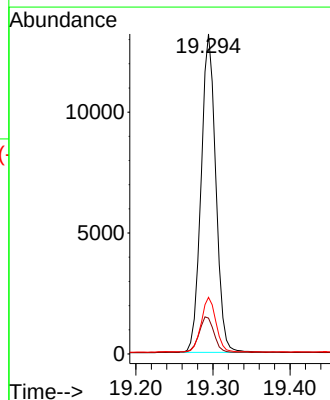
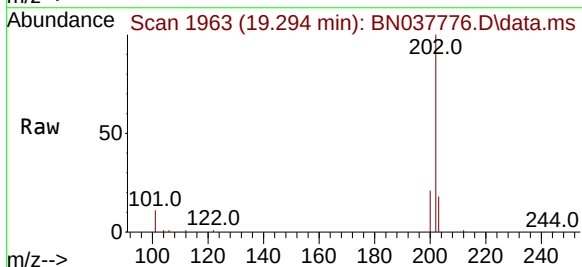
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

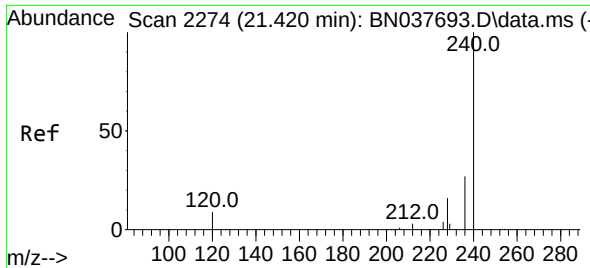
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.9	12.2	18.2
104	9.7	6.9	10.3



#28
Fluoranthene
Concen: 0.348 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.3	13.9
203	17.1	13.7	20.5

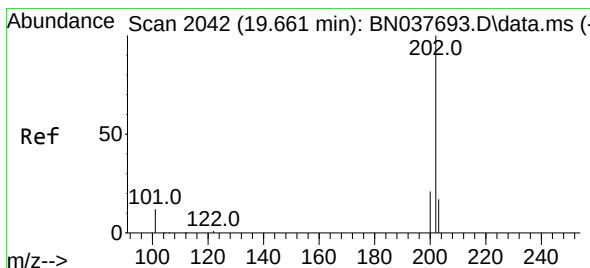
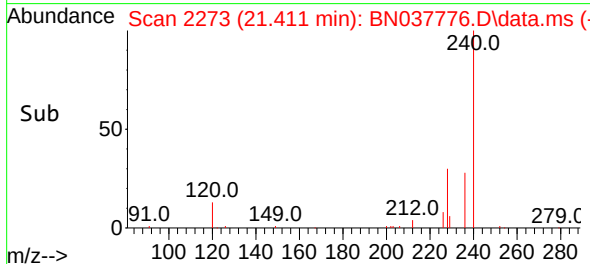
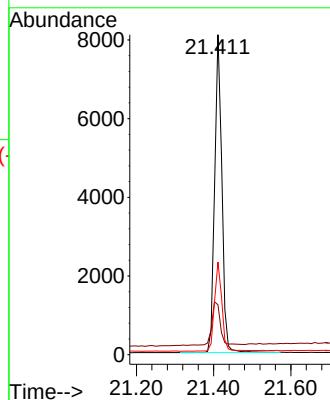
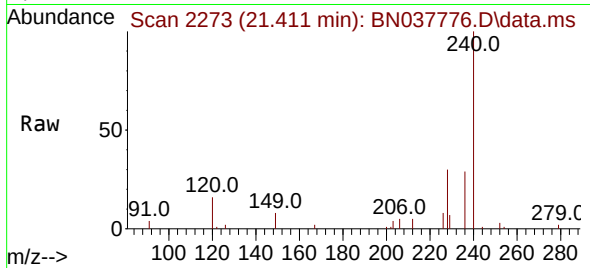




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

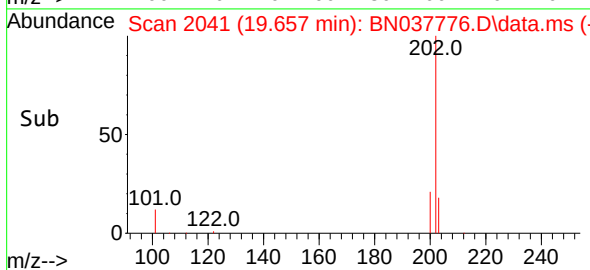
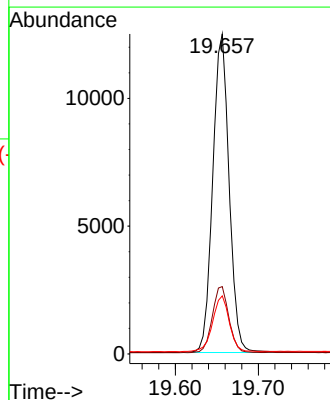
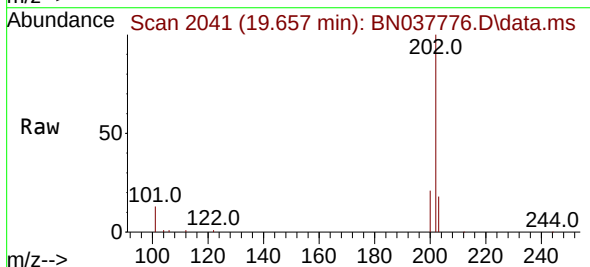
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

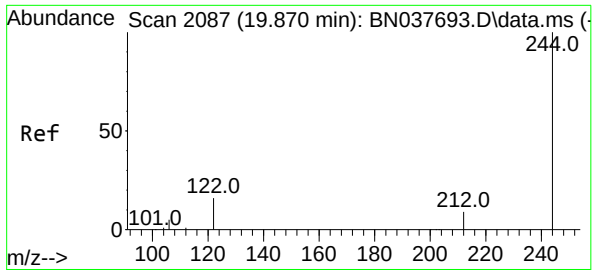
Tgt Ion:240 Resp: 10438
Ion Ratio Lower Upper
240 100
120 15.6 9.2 13.8#
236 28.9 22.6 33.8



#30
Pyrene
Concen: 0.418 ng
RT: 19.657 min Scan# 2041
Delta R.T. -0.005 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:202 Resp: 17087
Ion Ratio Lower Upper
202 100
200 21.1 16.8 25.2
203 17.9 14.3 21.5

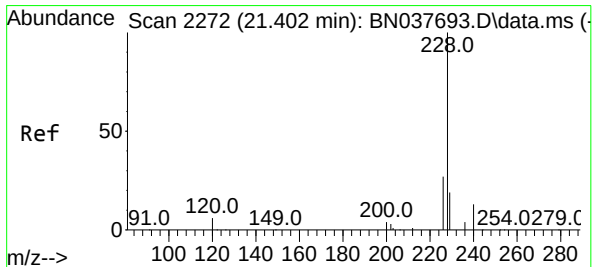
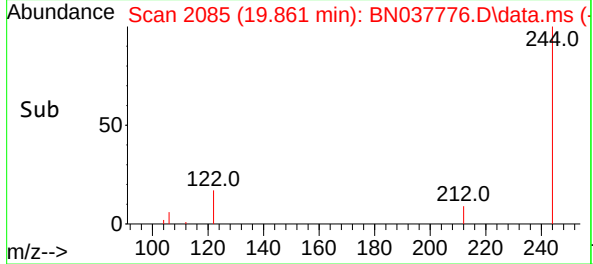
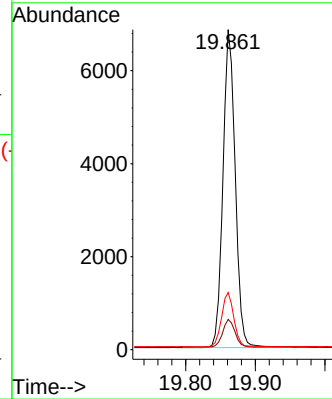
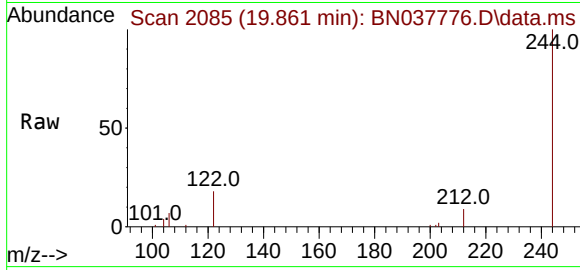




#31
Terphenyl-d14
Concen: 0.394 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

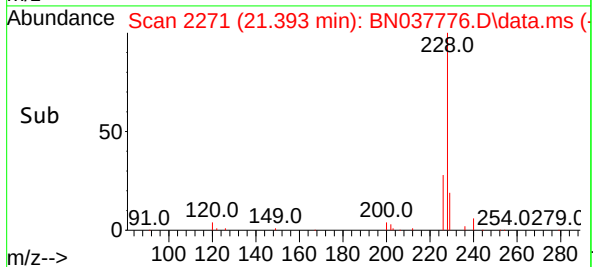
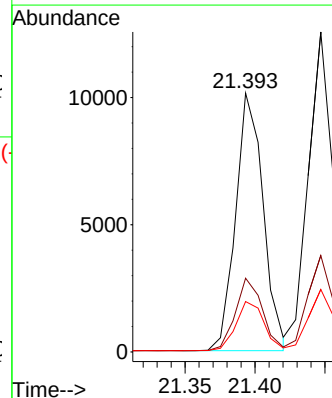
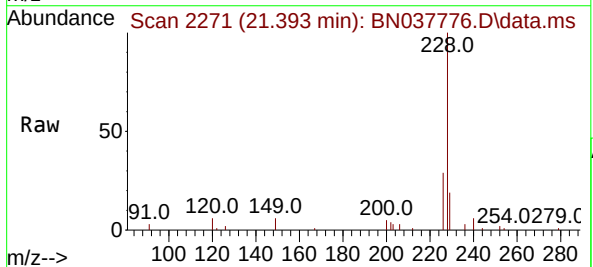
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

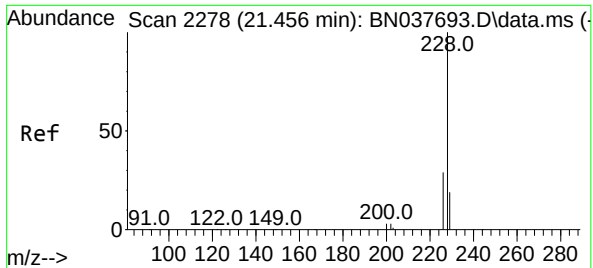
Tgt Ion:244 Resp: 8356
Ion Ratio Lower Upper
244 100
212 9.5 7.5 11.3
122 17.8 13.2 19.8



#32
Benzo(a)anthracene
Concen: 0.381 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:228 Resp: 13864
Ion Ratio Lower Upper
228 100
226 28.5 22.2 33.2
229 19.4 15.8 23.6





#33

Chrysene

Concen: 0.408 ng

RT: 21.447 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037776.D

Acq: 18 Sep 2025 14:32

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

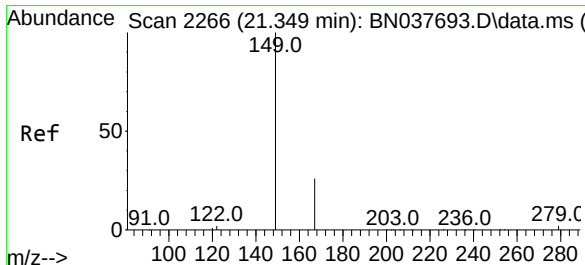
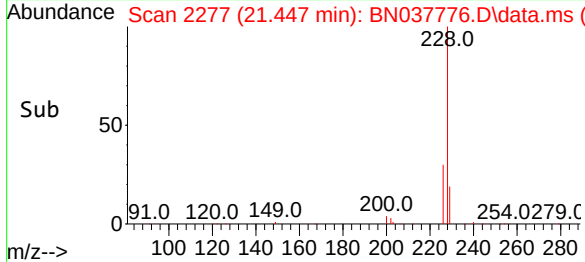
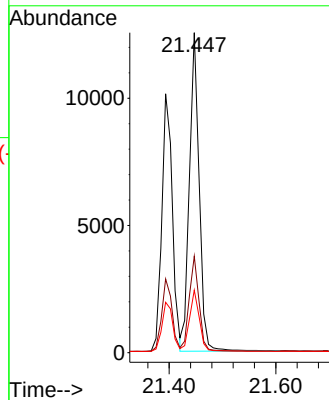
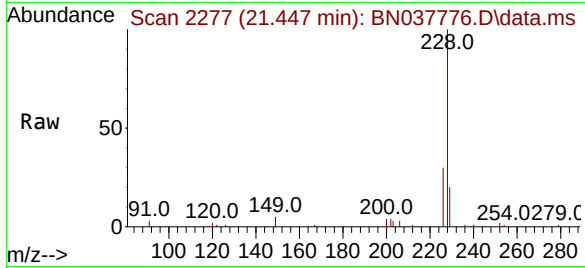
Tgt Ion:228 Resp: 15945

Ion Ratio Lower Upper

228 100

226 30.1 23.5 35.3

229 19.6 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.422 ng

RT: 21.339 min Scan# 2265

Delta R.T. -0.009 min

Lab File: BN037776.D

Acq: 18 Sep 2025 14:32

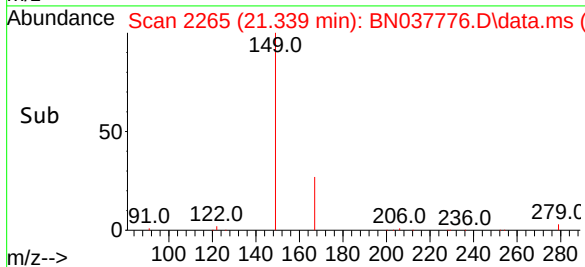
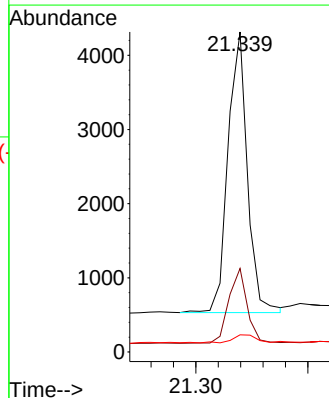
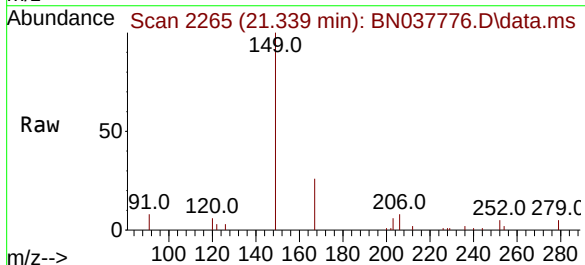
Tgt Ion:149 Resp: 4553

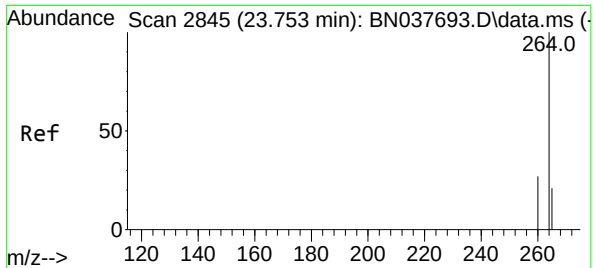
Ion Ratio Lower Upper

149 100

167 26.0 20.8 31.2

279 3.6 3.3 4.9





#35
Perylene-d12

Concen: 0.400 ng

RT: 23.744 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037776.D

Acq: 18 Sep 2025 14:32

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

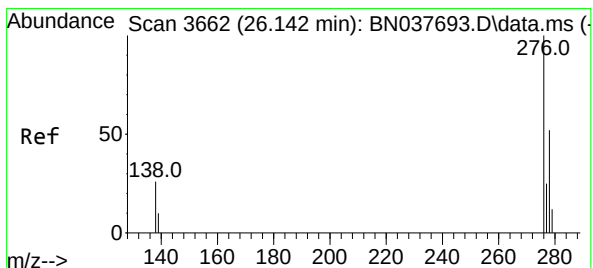
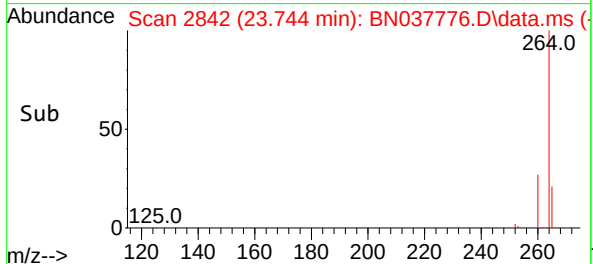
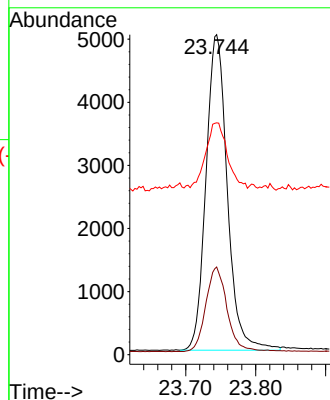
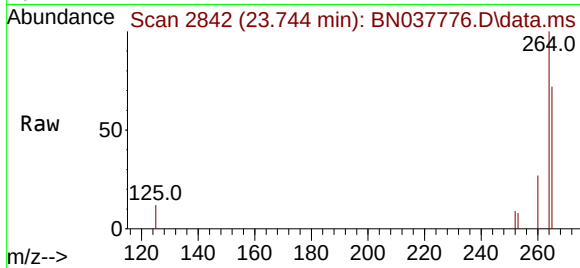
Tgt Ion:264 Resp: 10600

Ion Ratio Lower Upper

264 100

260 27.4 21.8 32.8

265 72.4 39.4 59.2#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.437 ng

RT: 26.127 min Scan# 3657

Delta R.T. -0.015 min

Lab File: BN037776.D

Acq: 18 Sep 2025 14:32

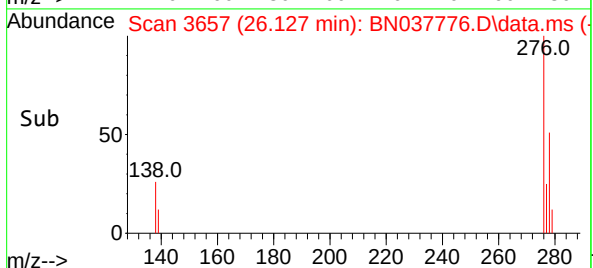
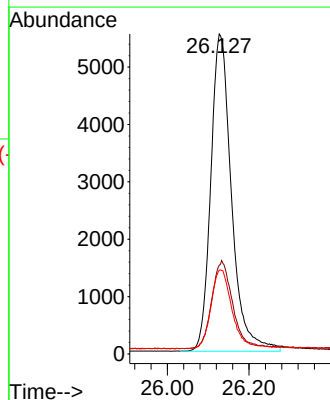
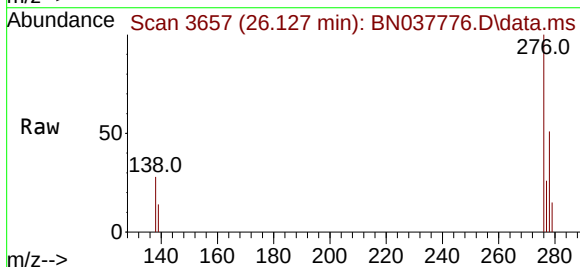
Tgt Ion:276 Resp: 19472

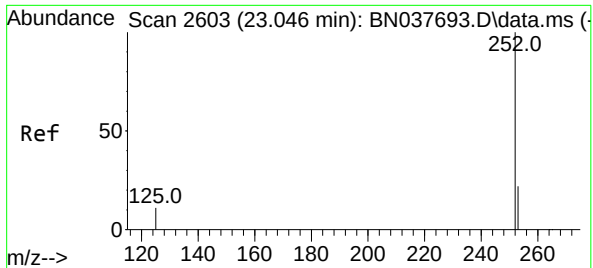
Ion Ratio Lower Upper

276 100

138 27.6 21.9 32.9

277 25.3 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.387 ng

RT: 23.037 min Scan# 2600

Delta R.T. -0.009 min

Lab File: BN037776.D

Acq: 18 Sep 2025 14:32

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

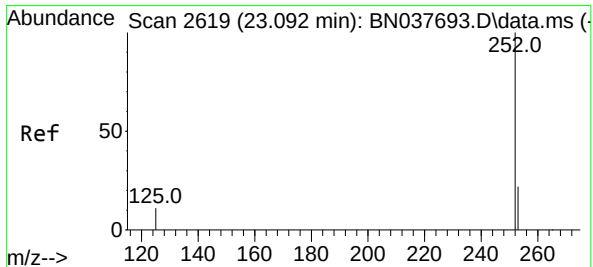
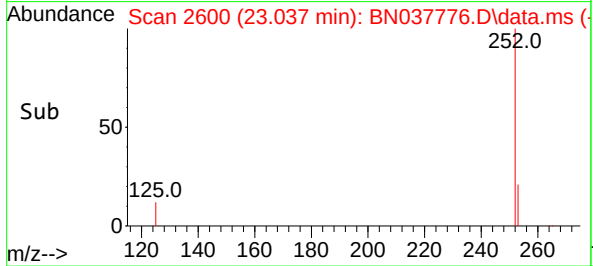
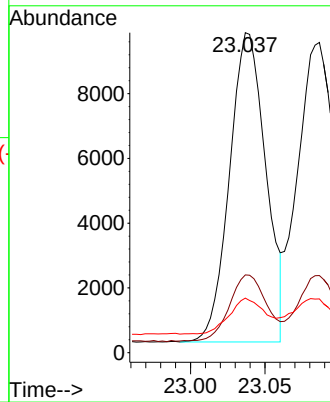
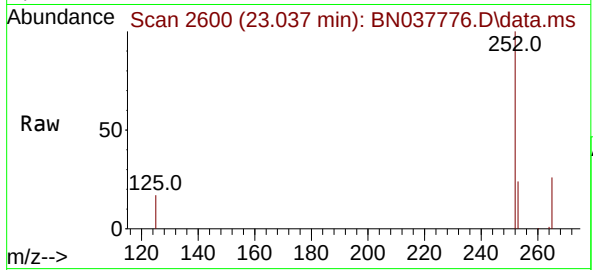
Tgt Ion:252 Resp: 16161

Ion Ratio Lower Upper

252 100

253 24.3 19.4 29.2

125 17.1 11.2 16.8#



#38

Benzo(k)fluoranthene

Concen: 0.402 ng

RT: 23.086 min Scan# 2617

Delta R.T. -0.006 min

Lab File: BN037776.D

Acq: 18 Sep 2025 14:32

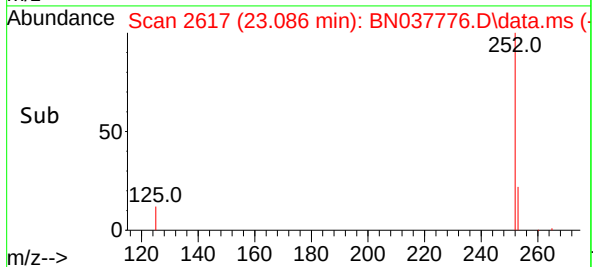
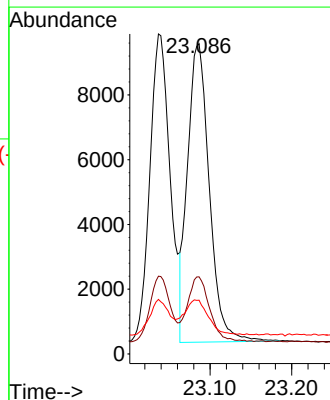
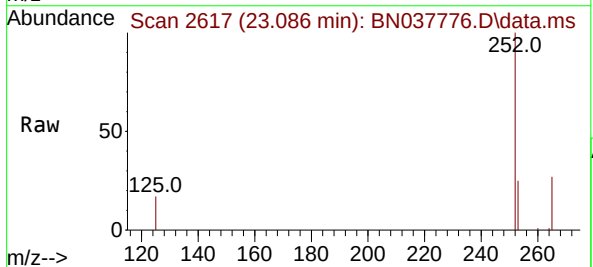
Tgt Ion:252 Resp: 17089

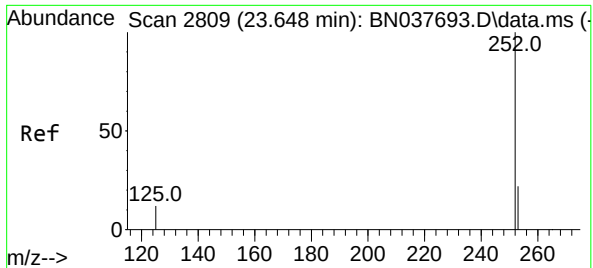
Ion Ratio Lower Upper

252 100

253 24.9 19.4 29.0

125 17.3 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.394 ng

RT: 23.642 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037776.D

Acq: 18 Sep 2025 14:32

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

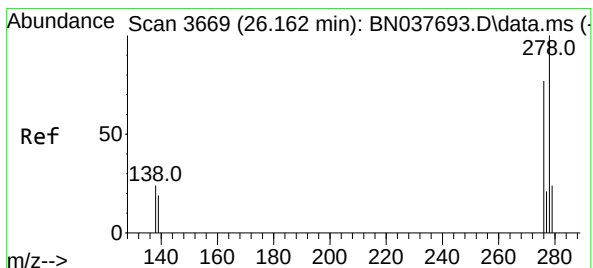
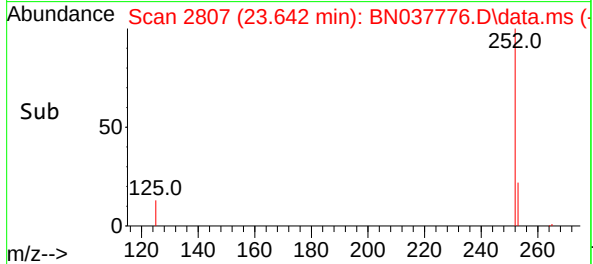
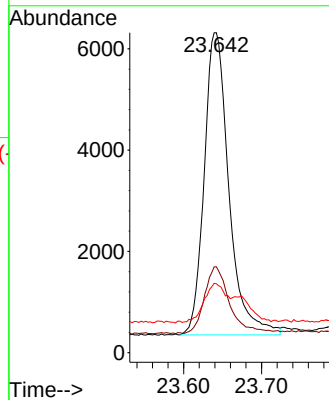
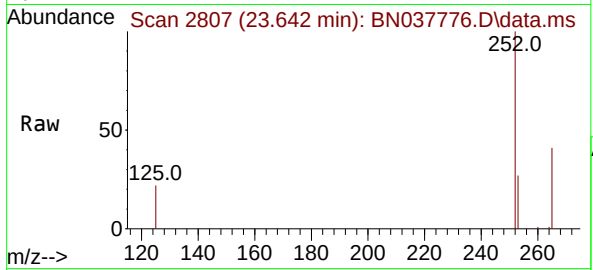
Tgt Ion:252 Resp: 13152

Ion Ratio Lower Upper

252 100

253 26.9 20.8 31.2

125 21.6 13.9 20.9#



#40

Dibenzo(a,h)anthracene

Concen: 0.436 ng

RT: 26.145 min Scan# 3663

Delta R.T. -0.018 min

Lab File: BN037776.D

Acq: 18 Sep 2025 14:32

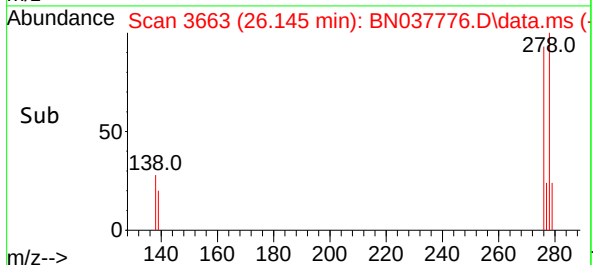
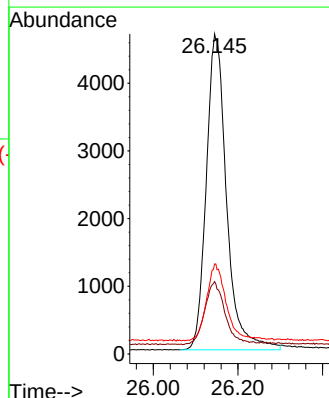
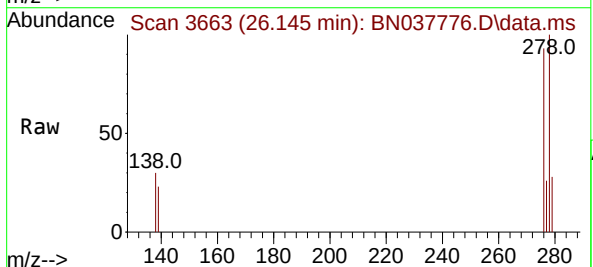
Tgt Ion:278 Resp: 15512

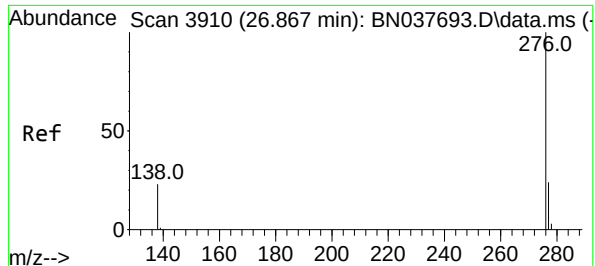
Ion Ratio Lower Upper

278 100

139 22.6 17.8 26.6

279 28.2 22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 0.413 ng

RT: 26.855 min Scan# 3906

Delta R.T. -0.012 min

Lab File: BN037776.D

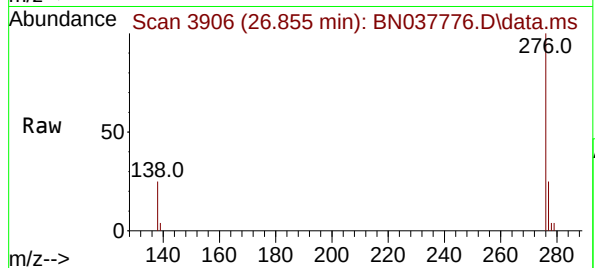
Acq: 18 Sep 2025 14:32

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



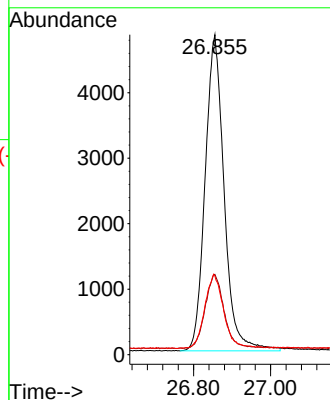
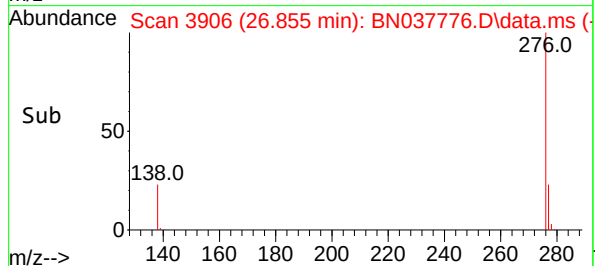
Tgt Ion:276 Resp: 16486

Ion Ratio Lower Upper

276 100

277 25.1 20.6 31.0

138 24.5 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
 Data File : BN037776.D
 Acq On : 18 Sep 2025 14:32
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 18 15:01:11 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	143	0.00
2	1,4-Dioxane	0.417	0.428	-2.6	145	0.00
3	n-Nitrosodimethylamine	0.544	0.513	5.7	130	0.00
4 S	2-Fluorophenol	0.918	0.890	3.1	143	0.00
5 S	Phenol-d6	1.191	1.130	5.1	140	0.00
6	bis(2-Chloroethyl)ether	1.064	1.059	0.5	141	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	143	-0.01
8 S	Nitrobenzene-d5	0.293	0.298	-1.7	150	-0.01
9	Naphthalene	1.093	1.070	2.1	143	0.00
10	Hexachlorobutadiene	0.198	0.198	0.0	144	-0.01
11 SURR	2-Methylnaphthalene-d10	0.530	0.497	6.2	143	-0.01
12	2-Methylnaphthalene	0.676	0.655	3.1	142	-0.01
13 I	Acenaphthene-d10	1.000	1.000	0.0	140	-0.01
14 S	2,4,6-Tribromophenol	0.104	0.114	-9.6	158#	0.00
15 S	2-Fluorobiphenyl	1.673	1.679	-0.4	143	0.00
16	Acenaphthylene	1.834	1.744	4.9	137	0.00
17	Acenaphthene	1.240	1.206	2.7	139	-0.01
18	Fluorene	1.502	1.397	7.0	136	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	129	0.00
20	4,6-Dinitro-2-methylphenol	0.037	0.031	16.2	122	0.00
21	4-Bromophenyl-phenylether	0.261	0.264	-1.1	136	-0.01
22	Hexachlorobenzene	0.300	0.326	-8.7	143	-0.01
23	Atrazine	0.166	0.158	4.8	135	-0.01
24	Pentachlorophenol	0.087	0.095	-9.2	165#	0.00
25	Phenanthrene	1.259	1.222	2.9	129	-0.01
26	Anthracene	1.116	1.047	6.2	126	-0.01
27 SURR	Fluoranthene-d10	1.004	0.839	16.4	116	0.00
28	Fluoranthene	1.381	1.201	13.0	118	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	111	0.00
30	Pyrene	1.566	1.637	-4.5	117	0.00
31 S	Terphenyl-d14	0.812	0.801	1.4	111	0.00
32	Benzo(a)anthracene	1.395	1.328	4.8	110	0.00
33	Chrysene	1.496	1.528	-2.1	114	0.00
34	Bis(2-ethylhexyl)phthalate	0.414	0.436	-5.3	129	0.00
35 I	Perylene-d12	1.000	1.000	0.0	118	0.00
36	Indeno(1,2,3-cd)pyrene	1.681	1.837	-9.3	141	-0.01
37	Benzo(b)fluoranthene	1.575	1.525	3.2	116	0.00
38	Benzo(k)fluoranthene	1.606	1.612	-0.4	125	0.00
39 C	Benzo(a)pyrene	1.261	1.241	1.6	122	0.00
40	Dibenzo(a,h)anthracene	1.342	1.463	-9.0	143	-0.02
41	Benzo(g,h,i)perylene	1.506	1.555	-3.3	127	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
 Data File : BN037776.D
 Acq On : 18 Sep 2025 14:32
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 18 15:01:11 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	143	0.00
2	1,4-Dioxane	0.400	0.411	-2.7	145	0.00
3	n-Nitrosodimethylamine	0.400	0.377	5.8	130	0.00
4 S	2-Fluorophenol	0.400	0.388	3.0	143	0.00
5 S	Phenol-d6	0.400	0.380	5.0	140	0.00
6	bis(2-Chloroethyl)ether	0.400	0.398	0.5	141	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	143	-0.01
8 S	Nitrobenzene-d5	0.400	0.407	-1.7	150	-0.01
9	Naphthalene	0.400	0.391	2.3	143	0.00
10	Hexachlorobutadiene	0.400	0.400	0.0	144	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.375	6.3	143	-0.01
12	2-Methylnaphthalene	0.400	0.387	3.3	142	-0.01
13 I	Acenaphthene-d10	0.400	0.400	0.0	140	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.436	-9.0	158	0.00
15 S	2-Fluorobiphenyl	0.400	0.401	-0.3	143	0.00
16	Acenaphthylene	0.400	0.380	5.0	137	0.00
17	Acenaphthene	0.400	0.389	2.8	139	-0.01
18	Fluorene	0.400	0.372	7.0	136	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	129	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.337	15.8	122	0.00
21	4-Bromophenyl-phenylether	0.400	0.405	-1.3	136	-0.01
22	Hexachlorobenzene	0.400	0.435	-8.7	143	-0.01
23	Atrazine	0.400	0.382	4.5	135	-0.01
24	Pentachlorophenol	0.400	0.438	-9.5	165	0.00
25	Phenanthrene	0.400	0.388	3.0	129	-0.01
26	Anthracene	0.400	0.375	6.3	126	-0.01
27 SURR	Fluoranthene-d10	0.400	0.334	16.5	116	0.00
28	Fluoranthene	0.400	0.348	13.0	118	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	111	0.00
30	Pyrene	0.400	0.418	-4.5	117	0.00
31 S	Terphenyl-d14	0.400	0.394	1.5	111	0.00
32	Benzo(a)anthracene	0.400	0.381	4.8	110	0.00
33	Chrysene	0.400	0.408	-2.0	114	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.422	-5.5	129	0.00
35 I	Perylene-d12	0.400	0.400	0.0	118	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.437	-9.2	141	-0.01
37	Benzo(b)fluoranthene	0.400	0.387	3.3	116	0.00
38	Benzo(k)fluoranthene	0.400	0.402	-0.5	125	0.00
39 C	Benzo(a)pyrene	0.400	0.394	1.5	122	0.00
40	Dibenzo(a,h)anthracene	0.400	0.436	-9.0	143	-0.02
41	Benzo(g,h,i)perylene	0.400	0.413	-3.2	127	-0.01

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: AECO15
 Lab Code: ACE SDG No.: Q3095
 Instrument ID: BNA_N Calibration Date/Time: 09/19/2025 00:52
 Lab File ID: BN037793.D Init. Calib. Date(s): 09/11/2025 09/11/2025
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 09:56 13:33
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.496		-6.4	50.0
Fluoranthene-d10	1.004	0.954		-5.0	50.0
2-Fluorophenol	0.918	0.923		0.5	50.0
Phenol-d6	1.191	1.148		-3.6	50.0
Nitrobenzene-d5	0.293	0.295		0.7	50.0
2-Fluorobiphenyl	1.673	1.632		-2.5	50.0
2,4,6-Tribromophenol	0.104	0.127		22.1	50.0
Terphenyl-d14	0.812	0.785		-3.3	50.0
1,4-Dioxane	0.417	0.436		4.6	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
 Data File : BN037793.D
 Acq On : 19 Sep 2025 00:52
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Sep 19 04:13:20 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

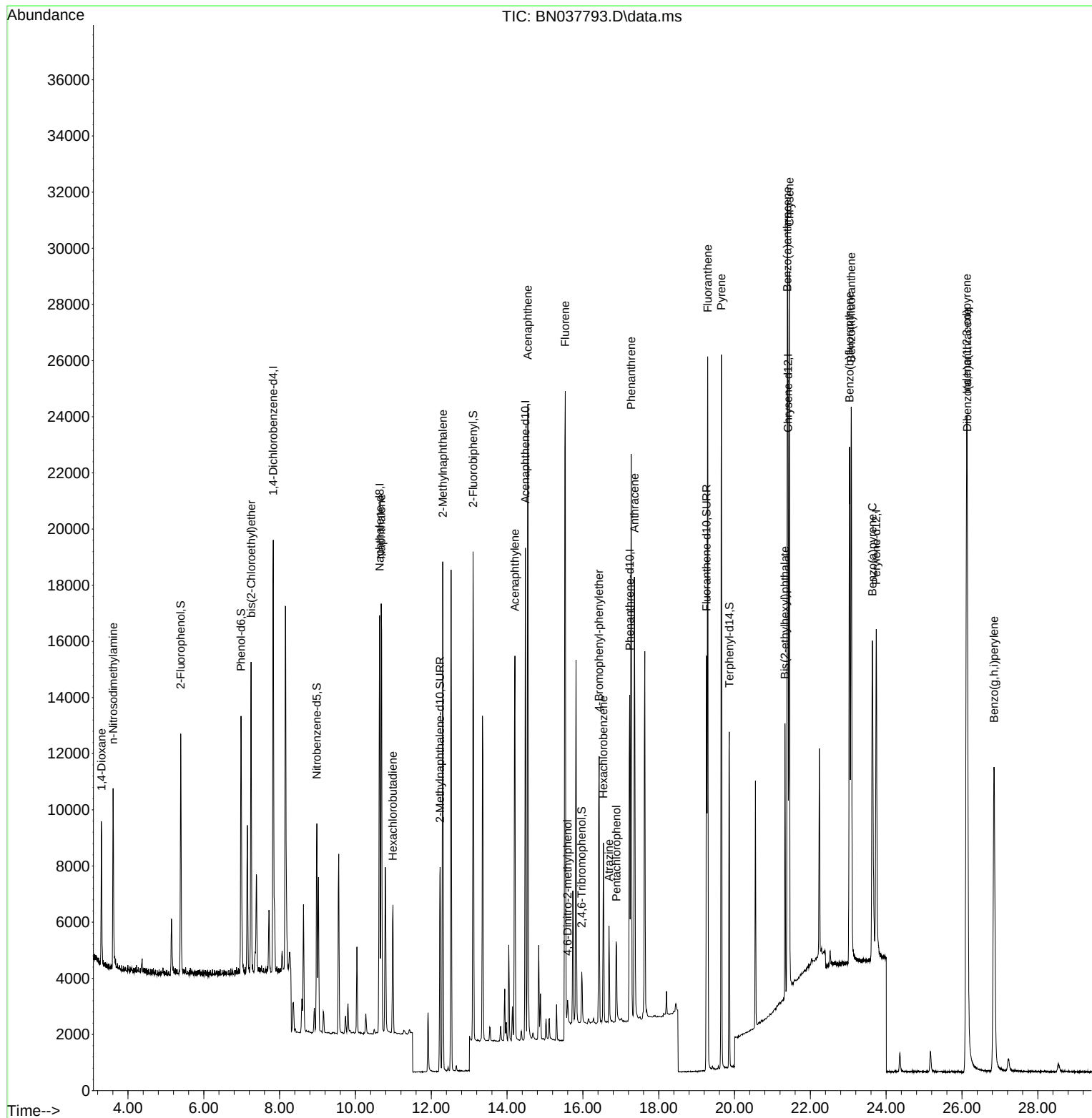
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7441	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	19492	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	9091	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	16806	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	15128	0.400	ng	0.00
35) Perylene-d12	23.739	264	15864	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	6868	0.402	ng	0.00
5) Phenol-d6	6.981	99	8539	0.386	ng	0.00
8) Nitrobenzene-d5	8.982	82	5756	0.404	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	9662	0.374	ng	-0.01
14) 2,4,6-Tribromophenol	15.969	330	1156	0.488	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	14833	0.390	ng	-0.01
27) Fluoranthene-d10	19.262	212	16028	0.380	ng	0.00
31) Terphenyl-d14	19.861	244	11883	0.387	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.304	88	3241	0.418	ng	98
3) n-Nitrosodimethylamine	3.608	42	3766	0.372	ng	88
6) bis(2-Chloroethyl)ether	7.248	93	7648	0.386	ng	100
9) Naphthalene	10.680	128	20919	0.393	ng	100
10) Hexachlorobutadiene	10.989	225	3750	0.389	ng	# 100
12) 2-Methylnaphthalene	12.304	142	12695	0.385	ng	99
16) Acenaphthylene	14.206	152	15704	0.377	ng	99
17) Acenaphthene	14.548	154	10816	0.384	ng	98
18) Fluorene	15.535	166	13166	0.386	ng	98
20) 4,6-Dinitro-2-methylph...	15.597	198	563	0.362	ng	# 81
21) 4-Bromophenyl-phenylether	16.429	248	4194	0.383	ng	# 94
22) Hexachlorobenzene	16.540	284	5004	0.397	ng	98
23) Atrazine	16.689	200	2701	0.387	ng	95
24) Pentachlorophenol	16.888	266	1719	0.470	ng	99
25) Phenanthrene	17.273	178	20559	0.389	ng	100
26) Anthracene	17.360	178	17722	0.378	ng	100
28) Fluoranthene	19.294	202	22839	0.394	ng	100
30) Pyrene	19.652	202	22743	0.384	ng	100
32) Benzo(a)anthracene	21.393	228	20290	0.385	ng	100
33) Chrysene	21.447	228	22567	0.399	ng	100
34) Bis(2-ethylhexyl)phtha...	21.331	149	8520	0.545	ng	99
36) Indeno(1,2,3-cd)pyrene	26.124	276	31159	0.467	ng	99
37) Benzo(b)fluoranthene	23.034	252	24537	0.393	ng	99
38) Benzo(k)fluoranthene	23.078	252	26227	0.412	ng	99
39) Benzo(a)pyrene	23.636	252	19199	0.384	ng	98
40) Dibenzo(a,h)anthracene	26.139	278	24445	0.459	ng	98
41) Benzo(g,h,i)perylene	26.846	276	24646	0.413	ng	97

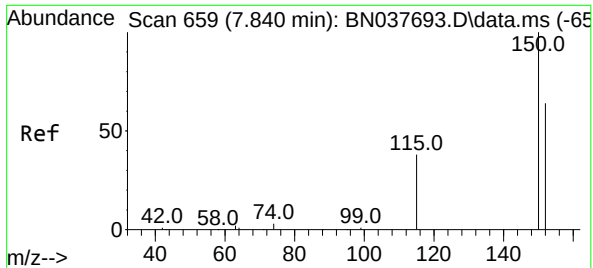
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037793.D
Acq On : 19 Sep 2025 00:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Sep 19 04:13:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

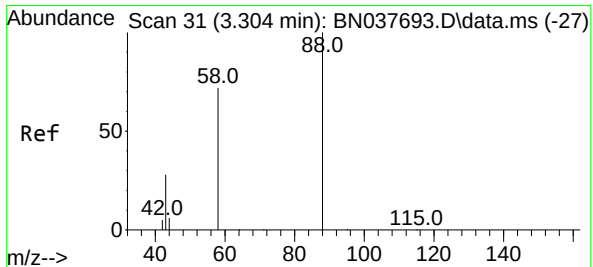
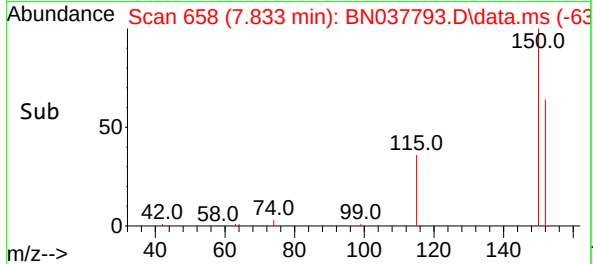
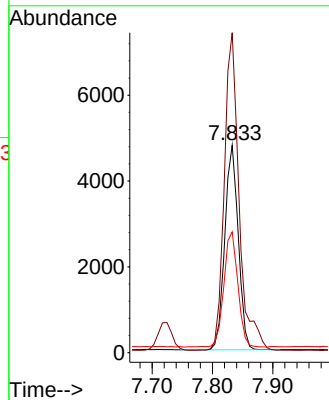
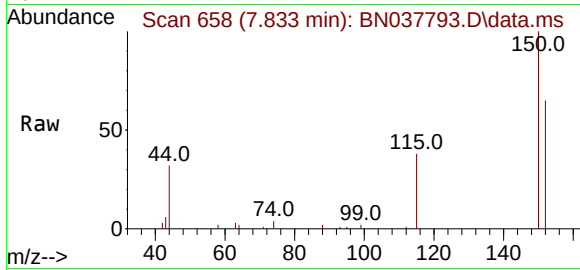




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.833 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN037793.D
 Acq: 19 Sep 2025 00:52

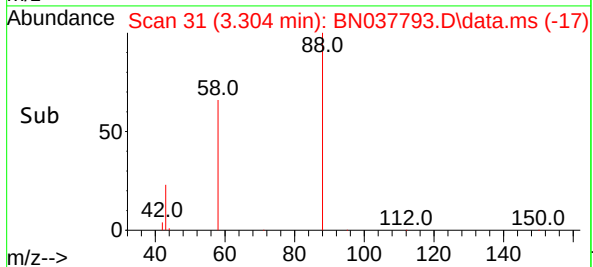
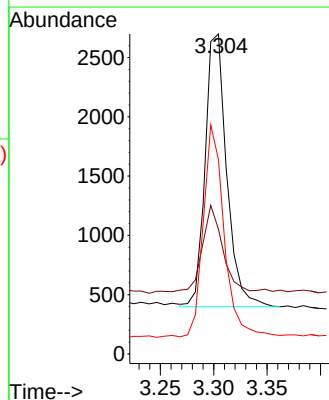
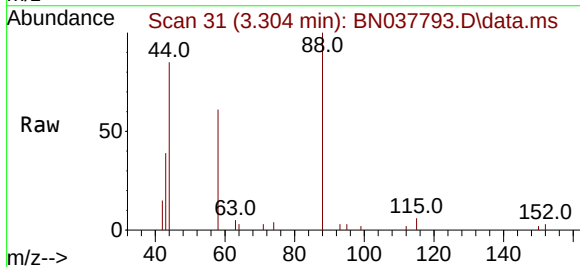
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

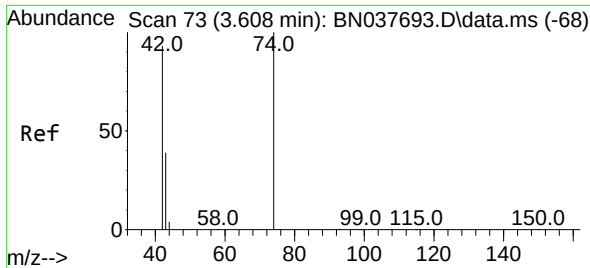
Tgt Ion:152 Resp: 7441
 Ion Ratio Lower Upper
 152 100
 150 154.3 124.5 186.7
 115 58.3 49.2 73.8



#2
 1,4-Dioxane
 Concen: 0.418 ng
 RT: 3.304 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: BN037793.D
 Acq: 19 Sep 2025 00:52

Tgt Ion: 88 Resp: 3241
 Ion Ratio Lower Upper
 88 100
 43 31.9 26.8 40.2
 58 76.1 61.9 92.9

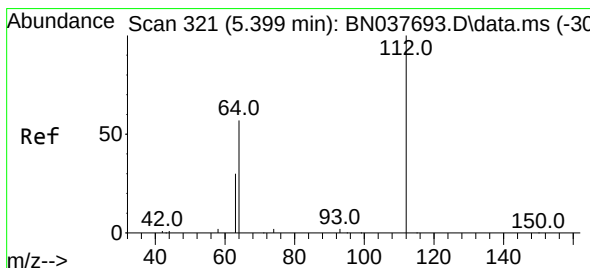
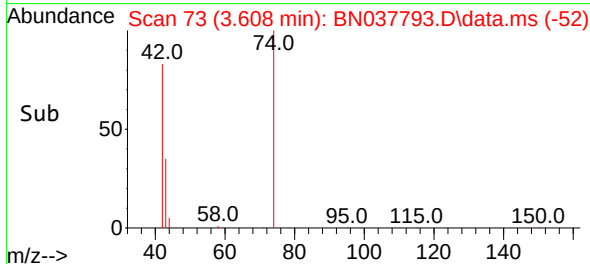
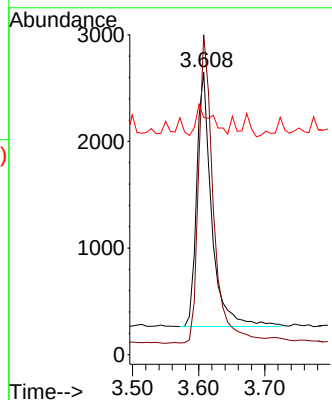
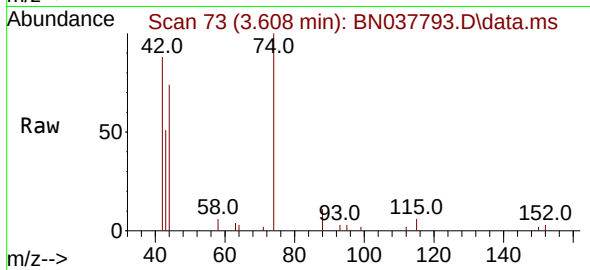




#3
n-Nitrosodimethylamine
Concen: 0.372 ng
RT: 3.608 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

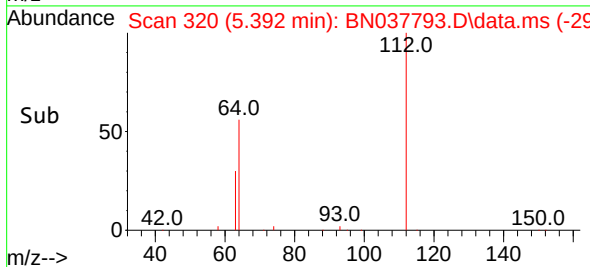
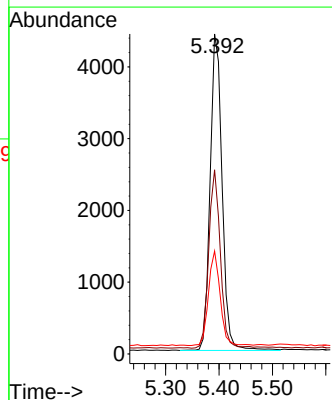
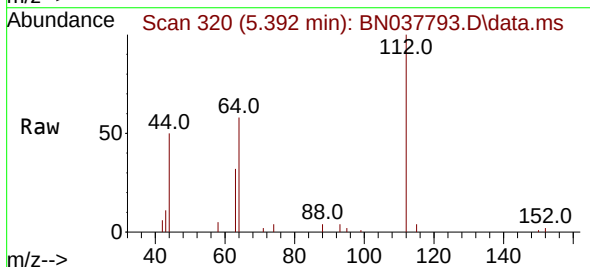
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

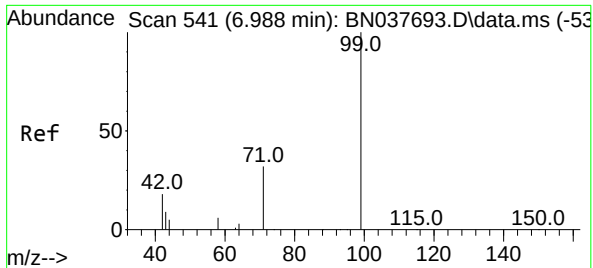
Tgt Ion: 42 Resp: 3766
Ion Ratio Lower Upper
42 100
74 120.8 86.0 129.0
44 12.6 8.4 12.6



#4
2-Fluorophenol
Concen: 0.402 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion: 112 Resp: 6868
Ion Ratio Lower Upper
112 100
64 55.9 44.9 67.3
63 29.2 24.7 37.1

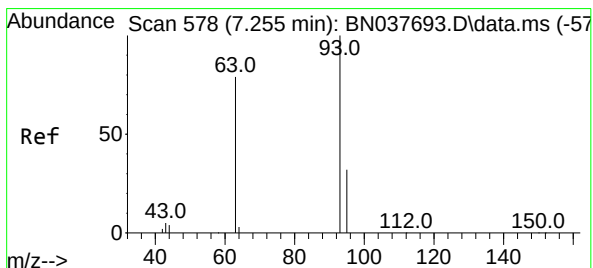
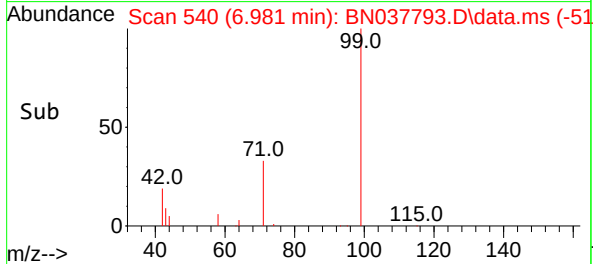
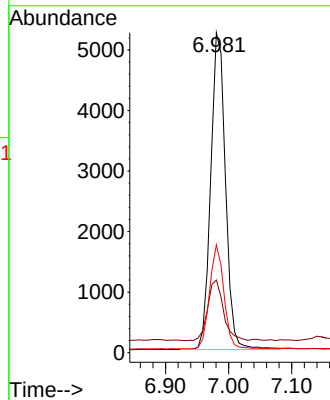
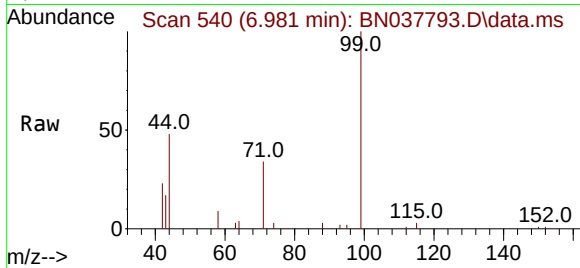




#5
Phenol-d6
Concen: 0.386 ng
RT: 6.981 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

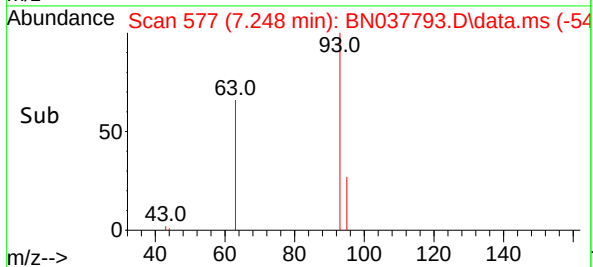
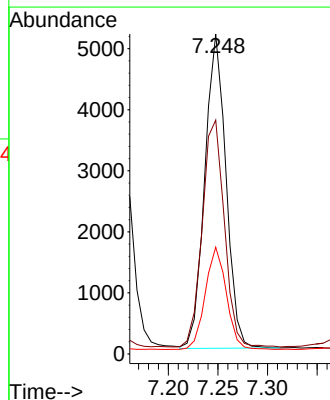
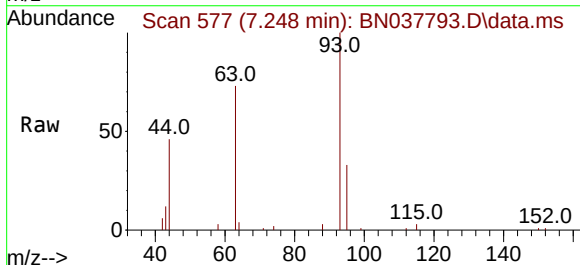
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

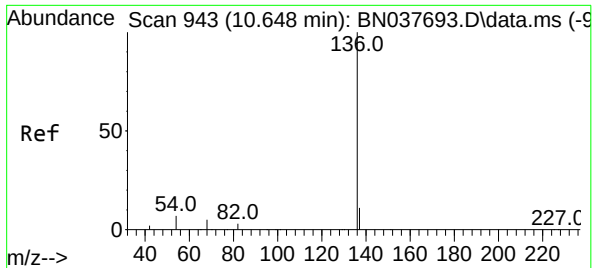
Tgt Ion: 99 Resp: 8539
Ion Ratio Lower Upper
99 100
42 20.3 16.6 24.8
71 32.6 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.386 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion: 93 Resp: 7648
Ion Ratio Lower Upper
93 100
63 75.3 60.6 90.8
95 32.6 26.0 39.0

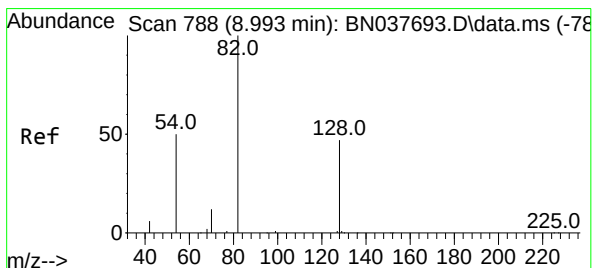
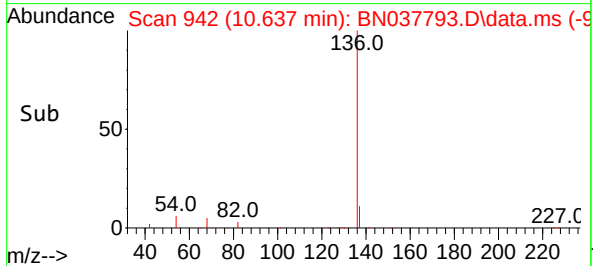
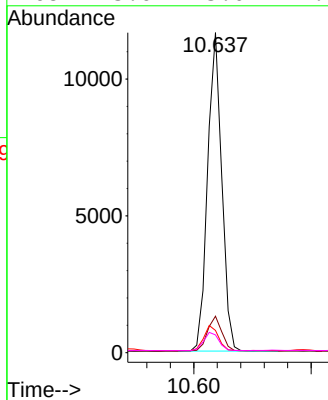
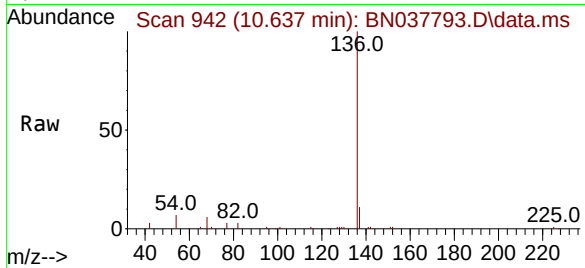




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

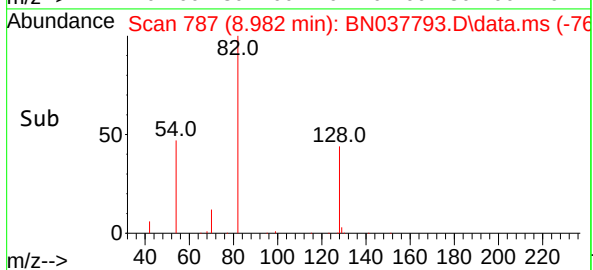
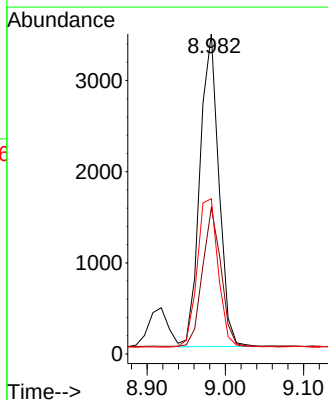
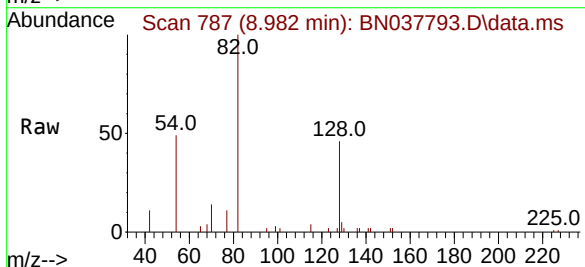
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

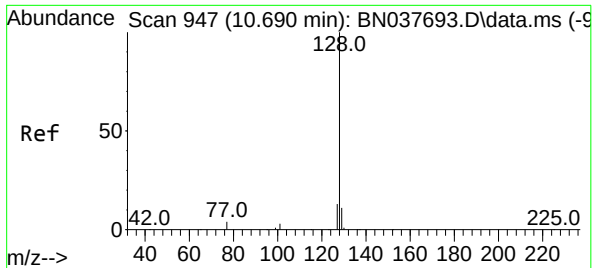
Tgt Ion:	136	Resp:	19492
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	6.9	6.3	9.5
68	5.6	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.404 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:	82	Resp:	5756
Ion	Ratio	Lower	Upper
82	100		
128	45.7	38.3	57.5
54	48.5	41.4	62.2

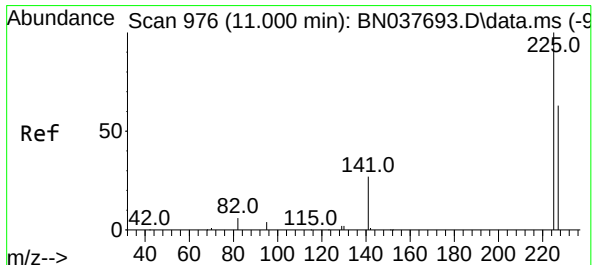
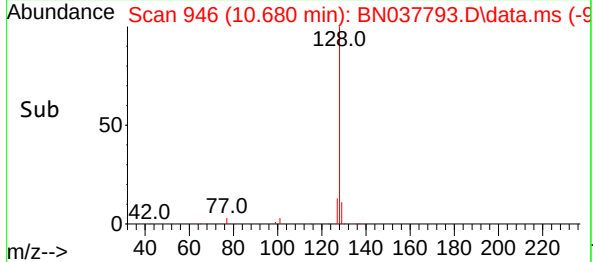
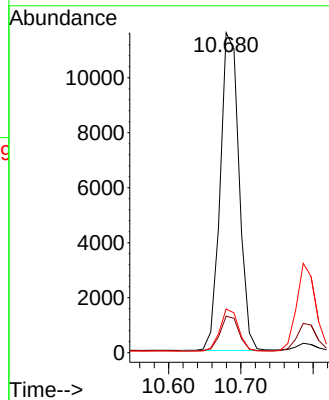
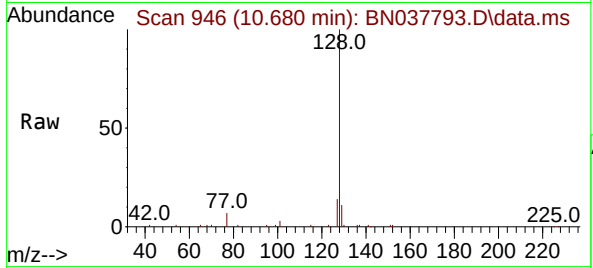




#9
Naphthalene
Concen: 0.393 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

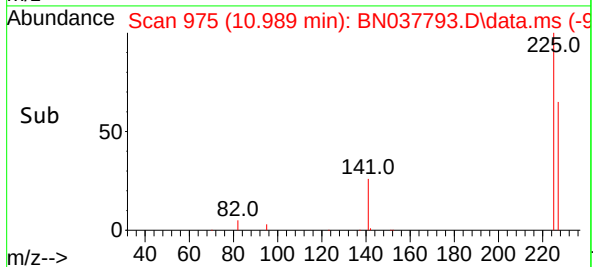
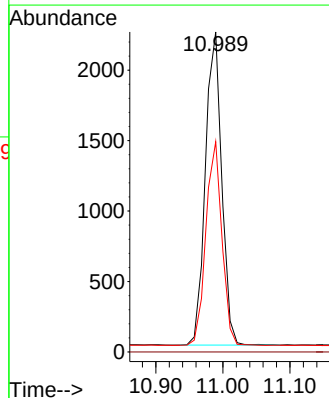
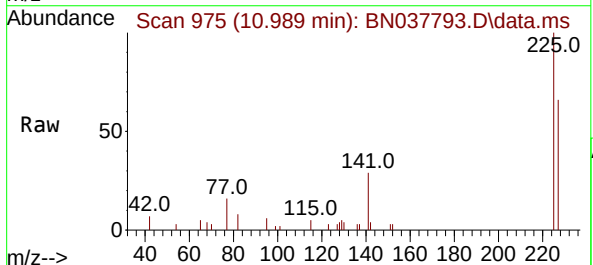
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

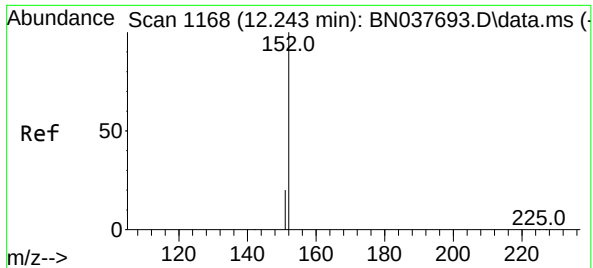
Tgt Ion:128 Resp: 20919
Ion Ratio Lower Upper
128 100
129 11.4 9.1 13.7
127 13.7 10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.389 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:225 Resp: 3750
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.9 50.9 76.3

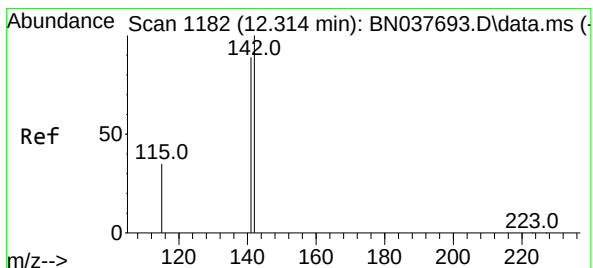
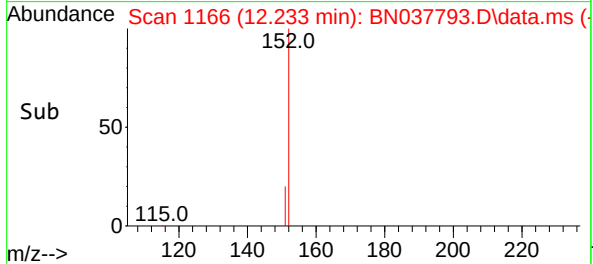
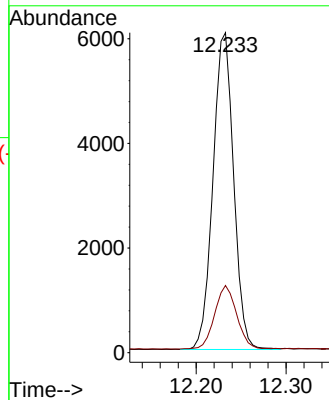
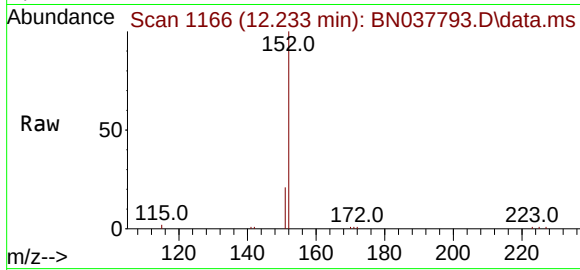




#11
2-Methylnaphthalene-d10
Concen: 0.374 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

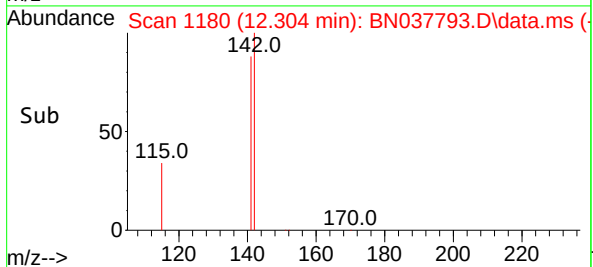
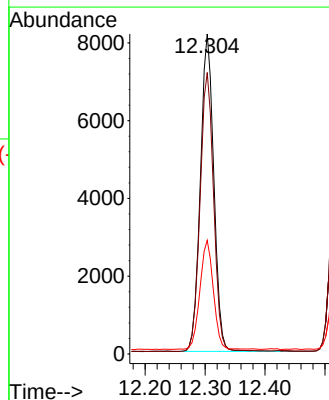
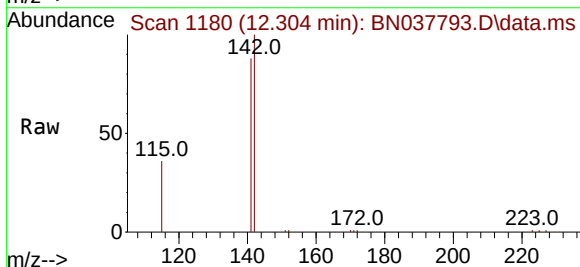
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

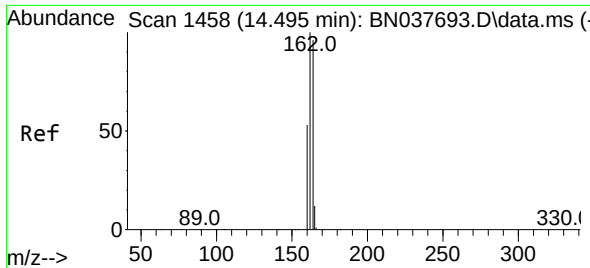
Tgt Ion:152 Resp: 9662
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.385 ng
RT: 12.304 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:142 Resp: 12695
Ion Ratio Lower Upper
142 100
141 87.9 71.6 107.4
115 35.5 28.6 43.0

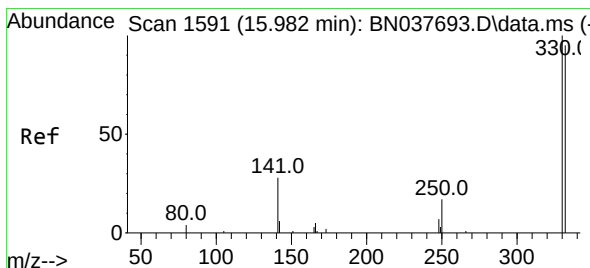
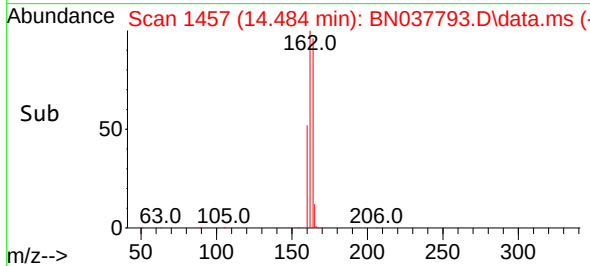
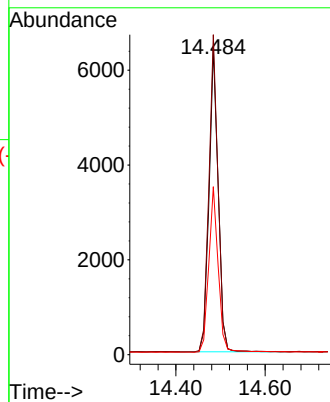
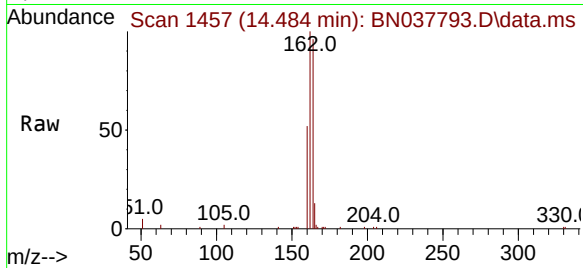




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

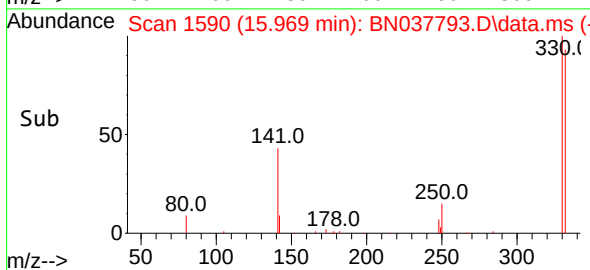
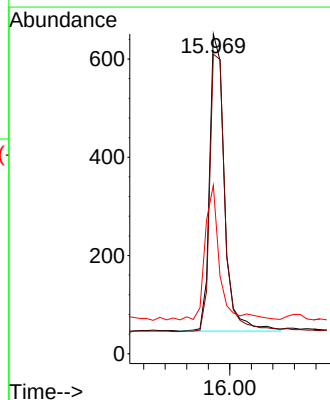
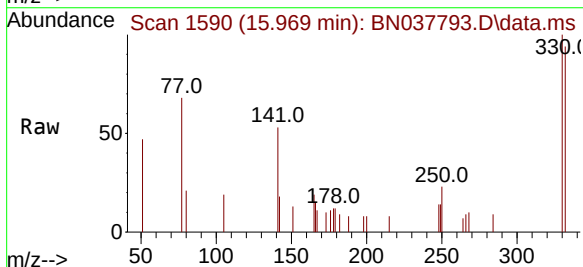
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

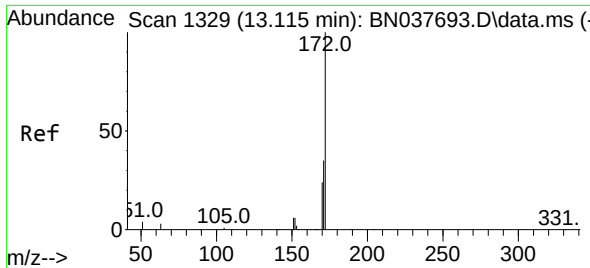
Tgt Ion	164	162	160
Resp:	9091		
Ion Ratio	100	104.3	54.7
Lower		83.1	44.3
Upper		124.7	66.5



#14
2,4,6-Tribromophenol
Concen: 0.488 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion	330	332	141
Resp:	1156		
Ion Ratio	100	96.0	44.0
Lower		75.3	35.0
Upper		112.9	52.4

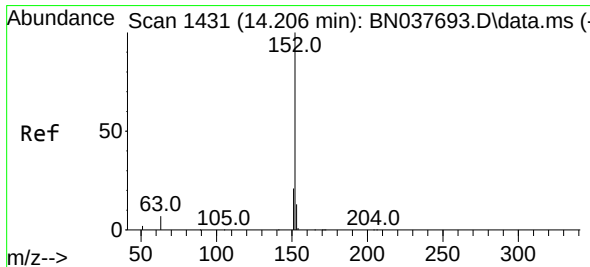
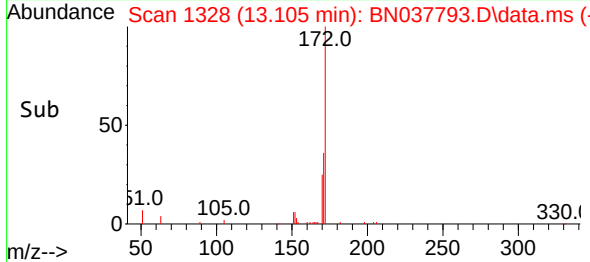
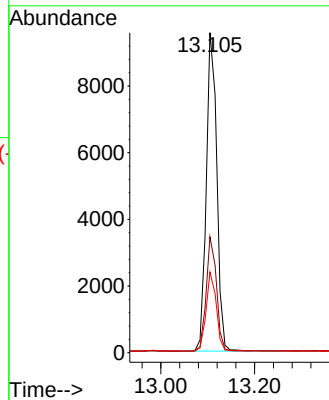
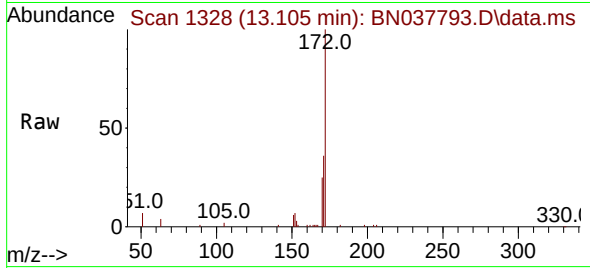




#15
2-Fluorobiphenyl
Concen: 0.390 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

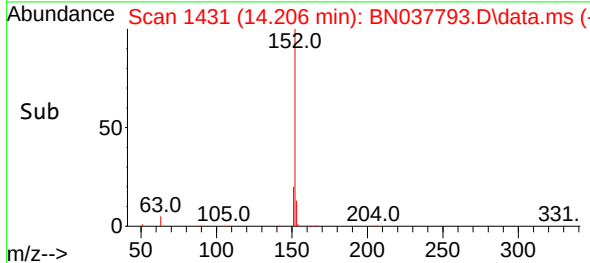
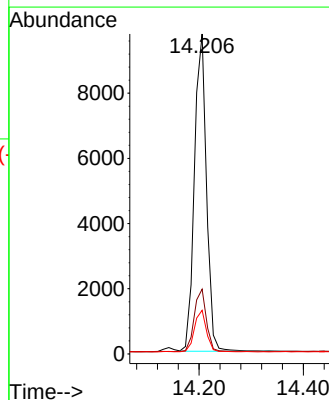
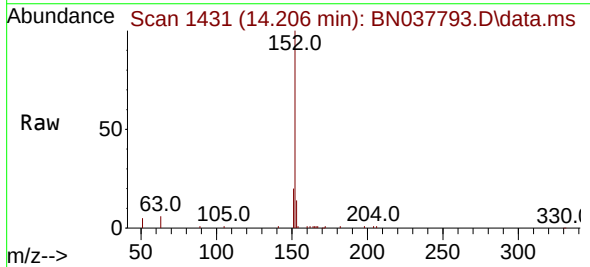
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

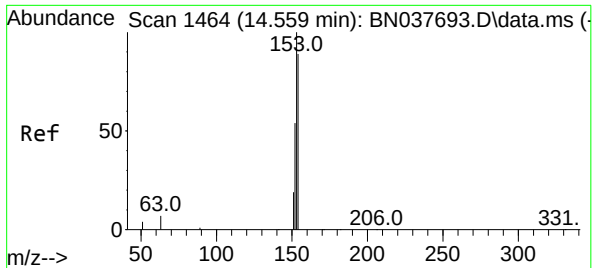
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.6	43.0
170	25.2	19.8	29.8



#16
Acenaphthylene
Concen: 0.377 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.2
153	13.2	10.4	15.6

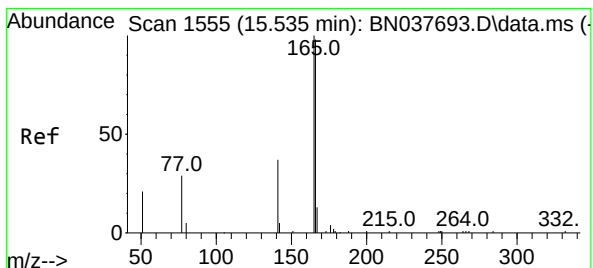
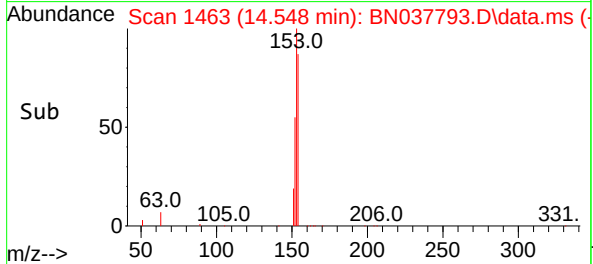
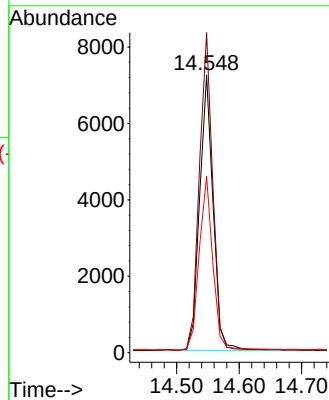
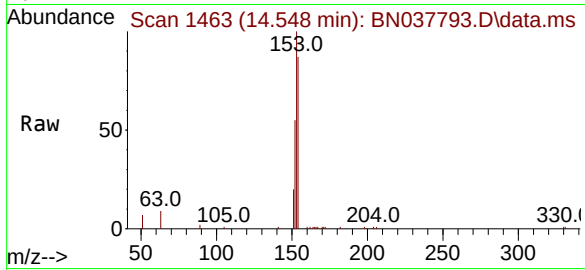




#17
Acenaphthene
Concen: 0.384 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

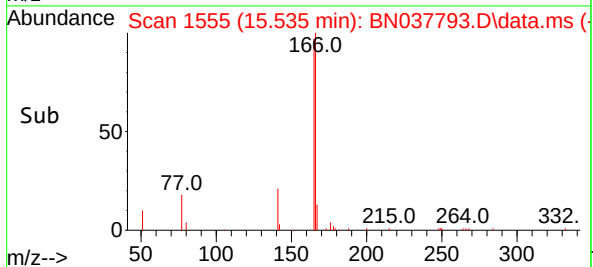
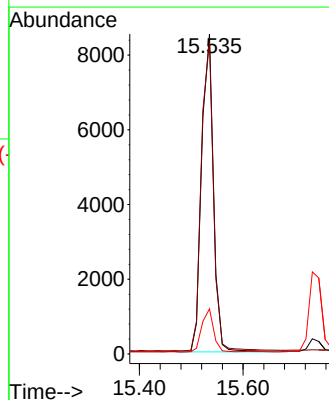
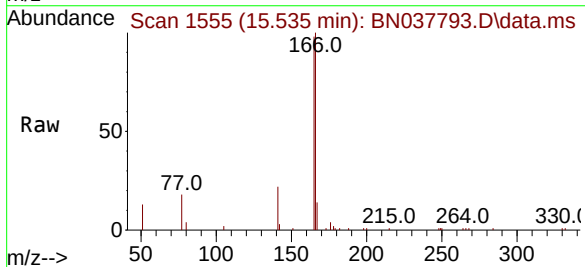
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

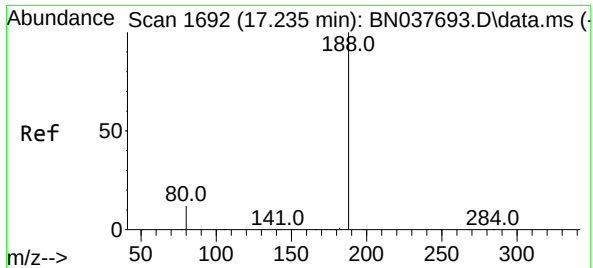
Tgt Ion:154 Resp: 10816
Ion Ratio Lower Upper
154 100
153 114.7 89.8 134.8
152 63.7 50.2 75.2



#18
Fluorene
Concen: 0.386 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:166 Resp: 13166
Ion Ratio Lower Upper
166 100
165 97.1 79.6 119.4
167 13.2 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037793.D

Acq: 19 Sep 2025 00:52

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

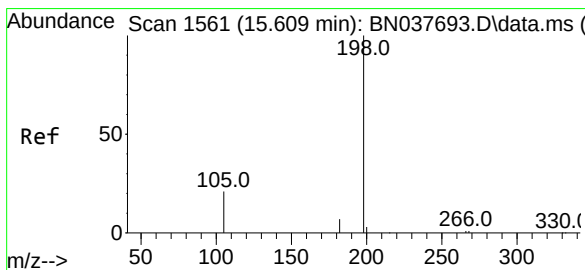
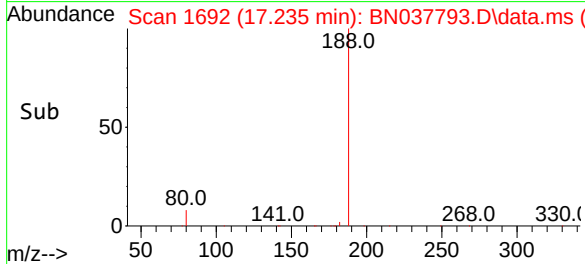
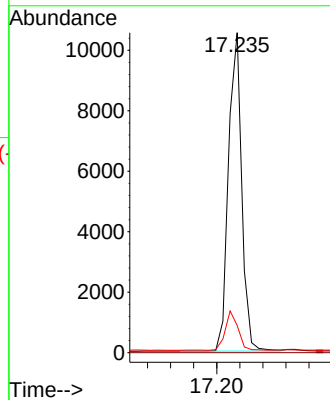
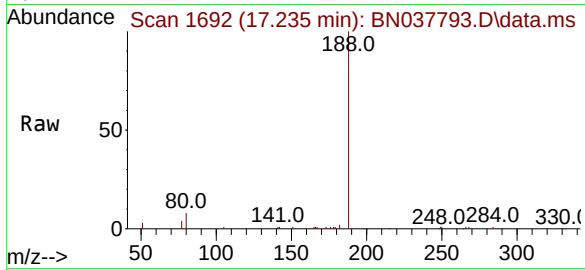
Tgt Ion:188 Resp: 16806

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.5 10.6 15.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.362 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.012 min

Lab File: BN037793.D

Acq: 19 Sep 2025 00:52

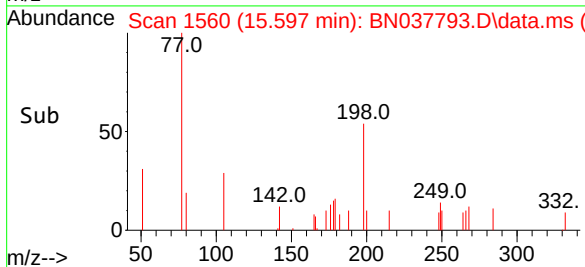
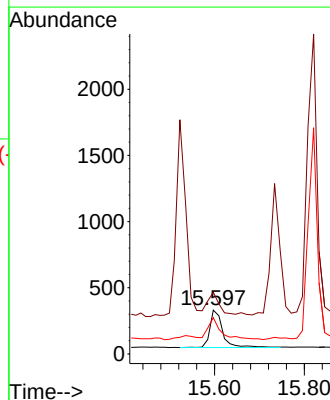
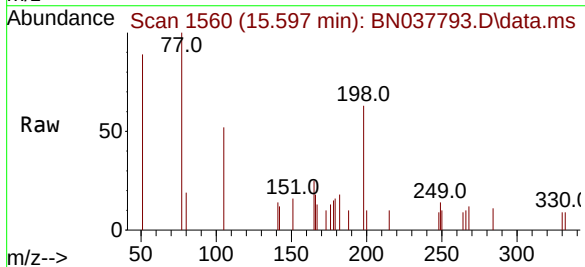
Tgt Ion:198 Resp: 563

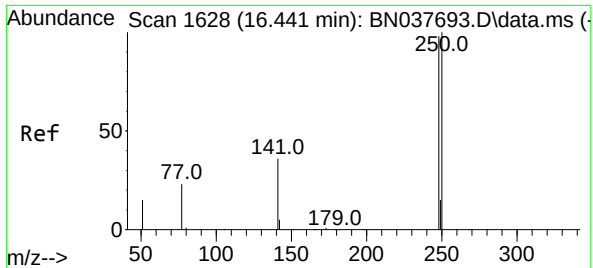
Ion Ratio Lower Upper

198 100

51 140.5 95.1 142.7

105 82.8 53.8 80.6#

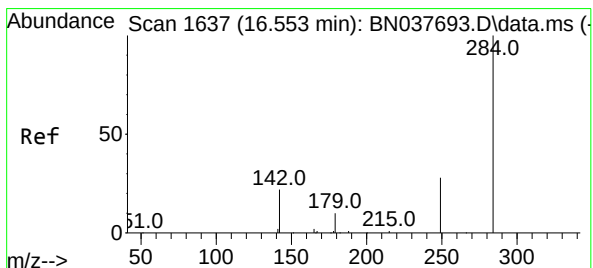
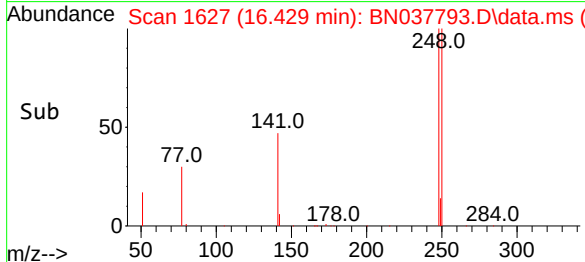
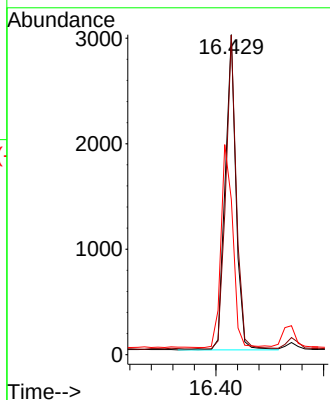
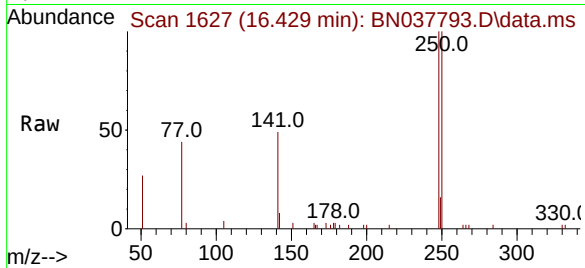




#21
4-Bromophenyl-phenylether
Concen: 0.383 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

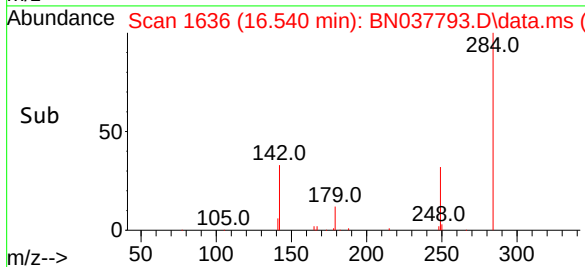
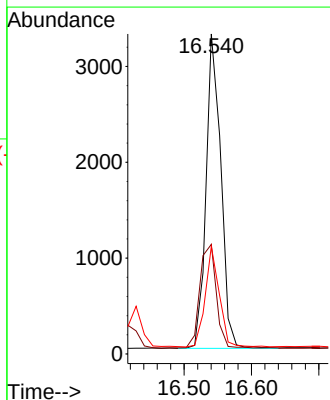
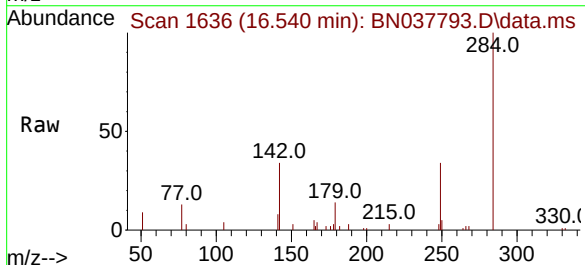
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

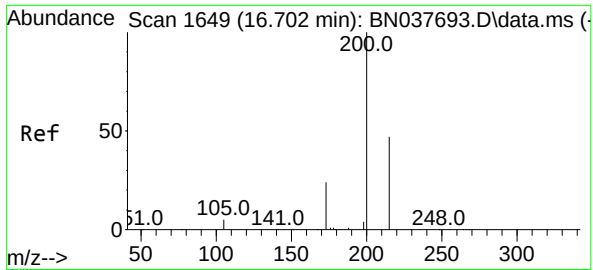
Tgt Ion	Ratio	Lower	Upper
248	100		
250	99.9	81.5	122.3
141	48.5	30.8	46.2#



#22
Hexachlorobenzene
Concen: 0.397 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.2	30.9	46.3
249	30.4	24.8	37.2

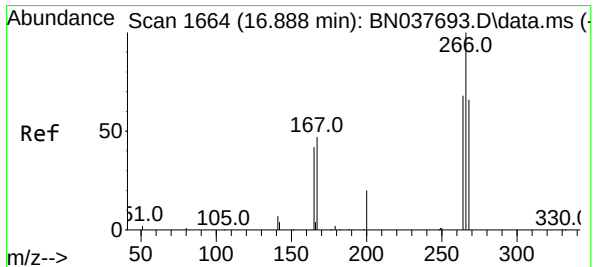
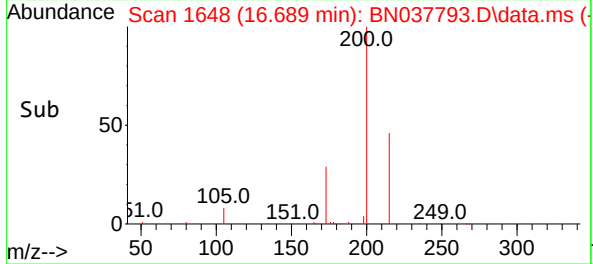
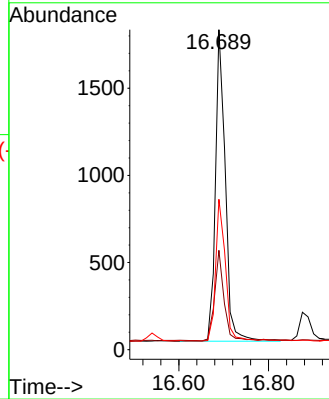
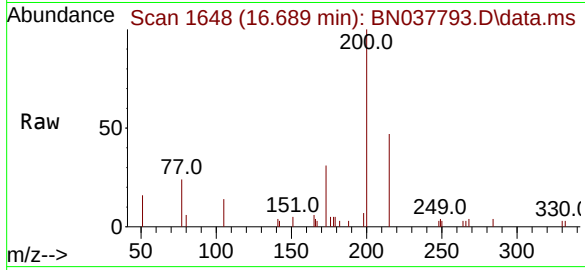




#23
Atrazine
Concen: 0.387 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

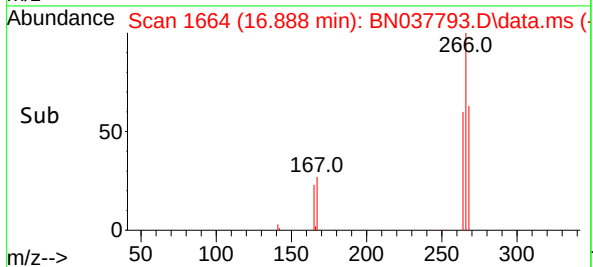
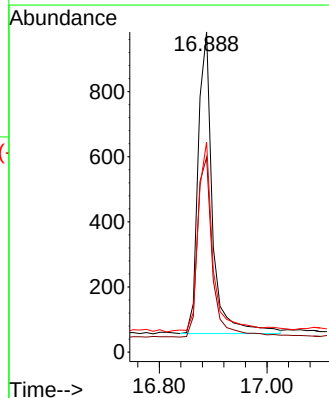
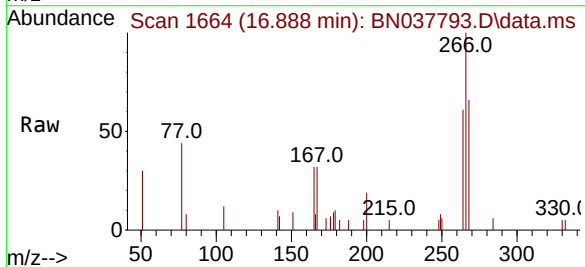
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

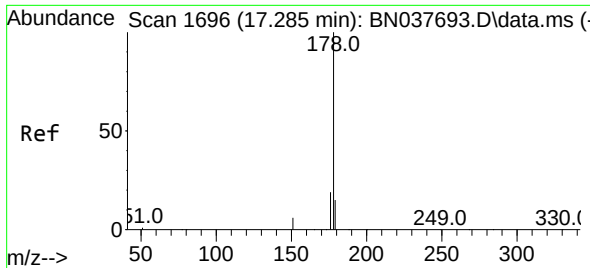
Tgt Ion	Ratio	Lower	Upper
200	100		
173	31.0	21.4	32.2
215	47.0	39.2	58.8



#24
Pentachlorophenol
Concen: 0.470 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.7	51.6	77.4
268	67.0	53.2	79.8

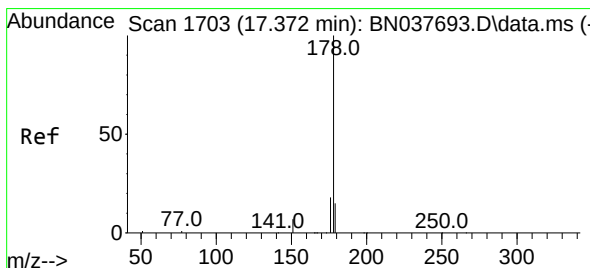
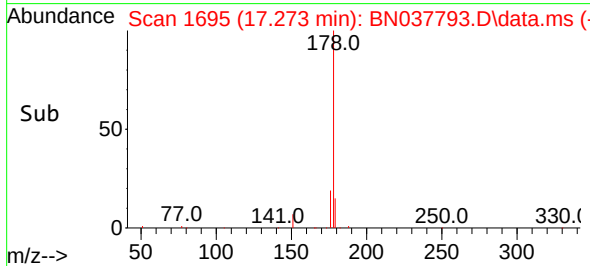
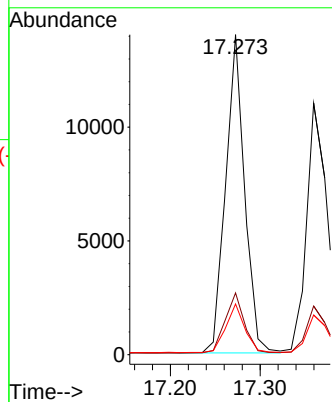
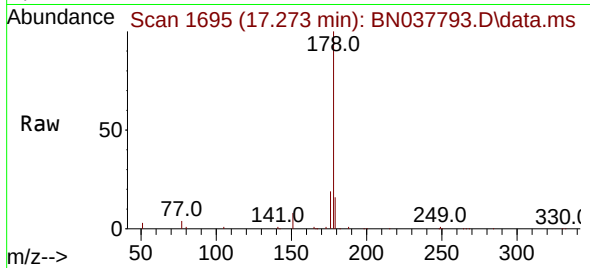




#25
Phenanthrene
Concen: 0.389 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

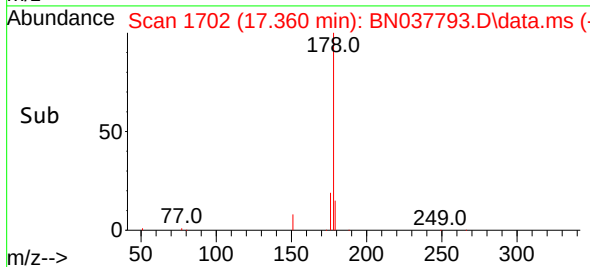
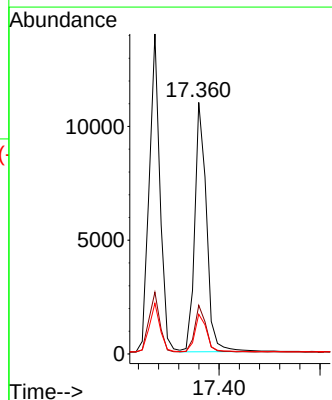
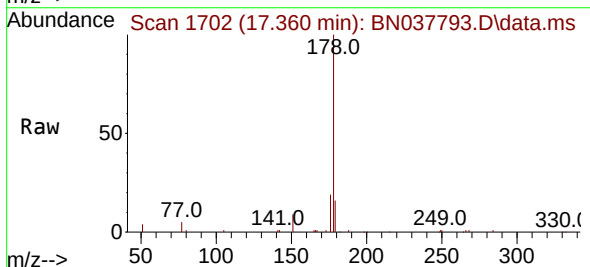
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

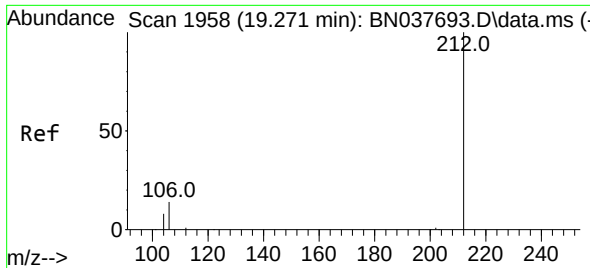
Tgt Ion:178 Resp: 20559
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.4 12.2 18.2



#26
Anthracene
Concen: 0.378 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:178 Resp: 17722
Ion Ratio Lower Upper
178 100
176 18.3 14.6 22.0
179 15.2 12.2 18.4

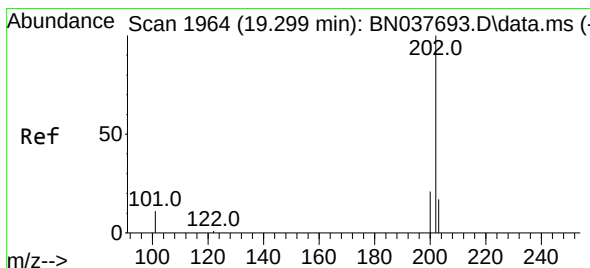
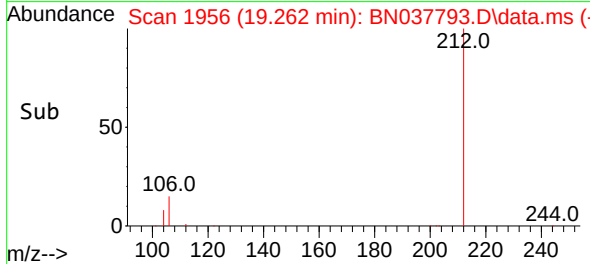
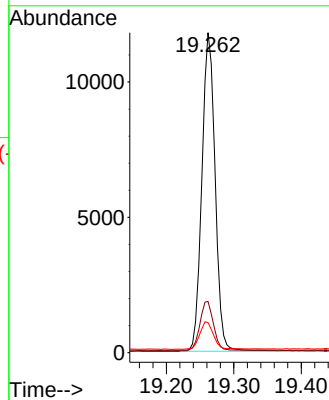
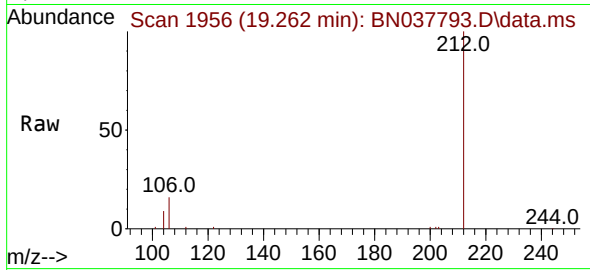




#27
Fluoranthene-d10
Concen: 0.380 ng
RT: 19.262 min Scan# 1958
Delta R.T. -0.009 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

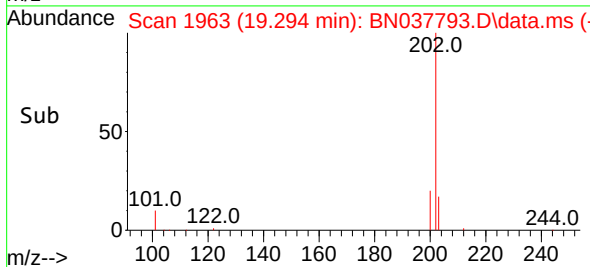
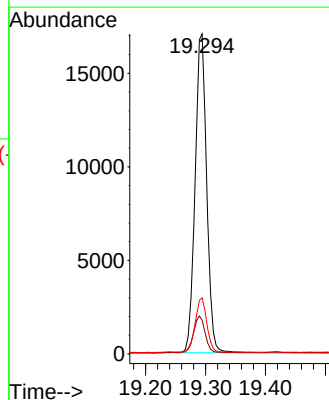
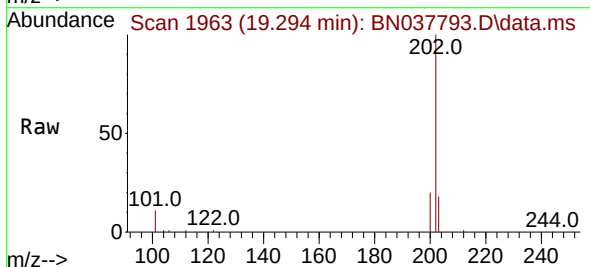
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

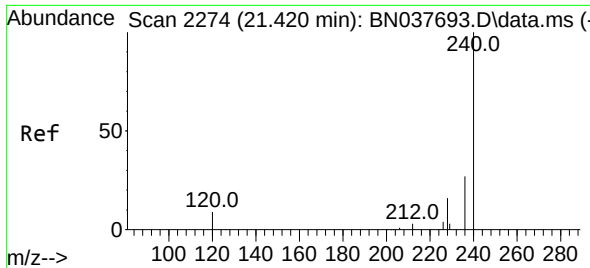
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.6	12.2	18.2
104	9.0	6.9	10.3



#28
Fluoranthene
Concen: 0.394 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.3	13.9
203	16.9	13.7	20.5

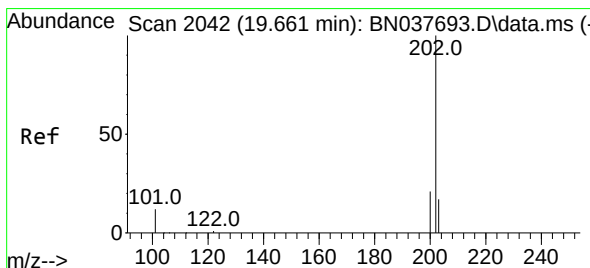
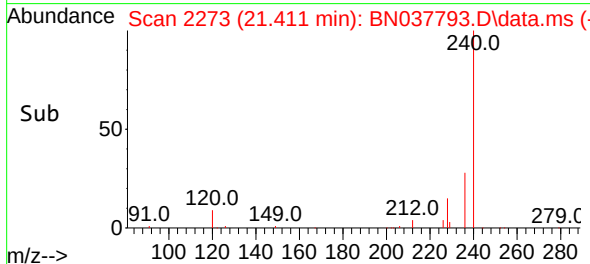
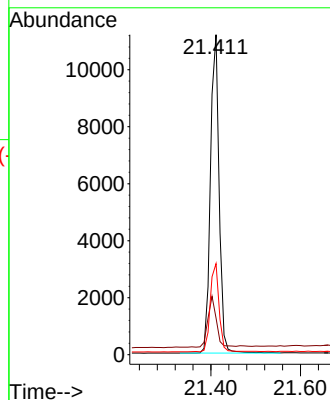
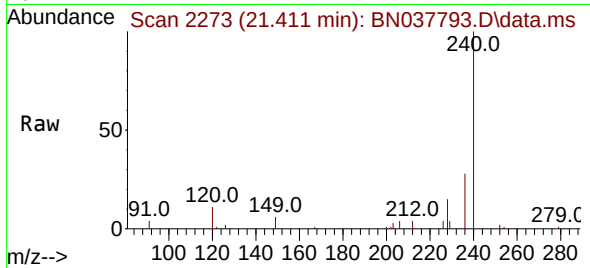




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

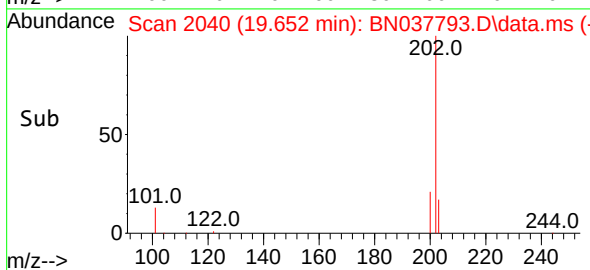
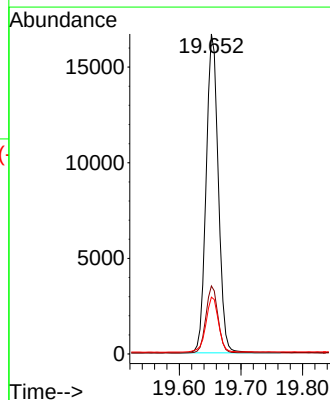
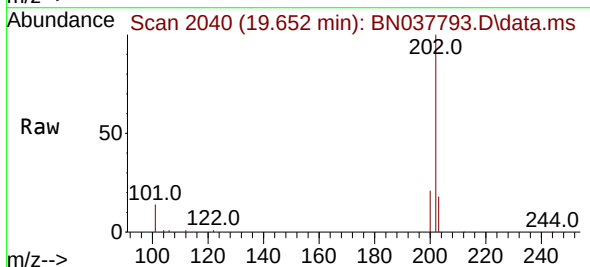
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

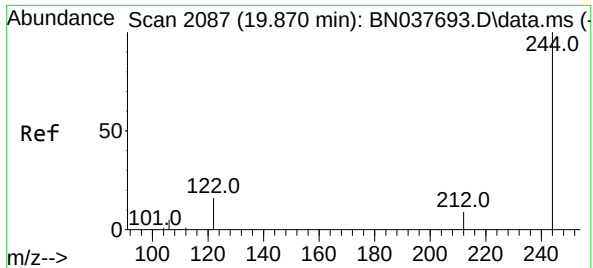
Tgt Ion:240 Resp: 15128
Ion Ratio Lower Upper
240 100
120 11.5 9.2 13.8
236 28.5 22.6 33.8



#30
Pyrene
Concen: 0.384 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:202 Resp: 22743
Ion Ratio Lower Upper
202 100
200 21.1 16.8 25.2
203 18.0 14.3 21.5

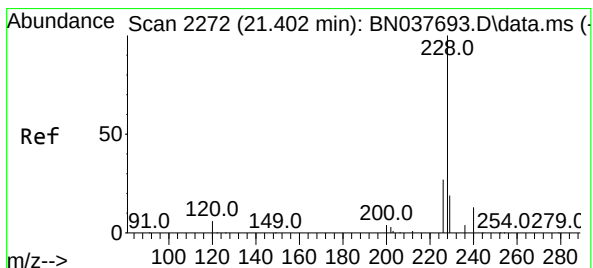
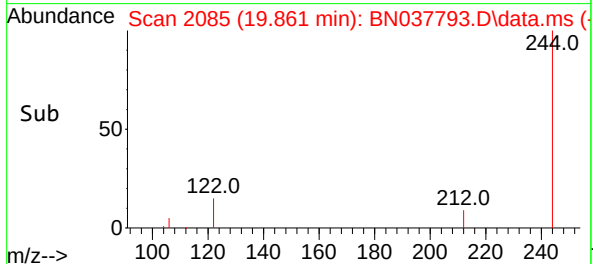
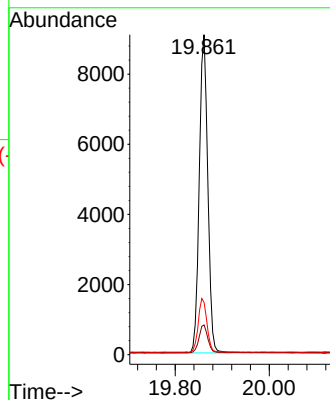
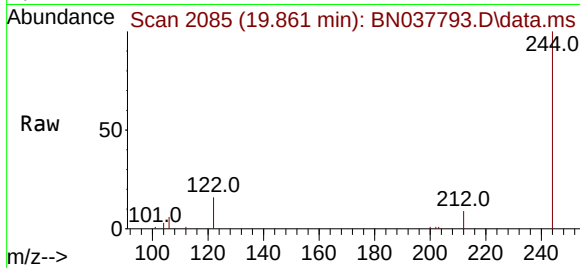




#31
Terphenyl-d14
Concen: 0.387 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

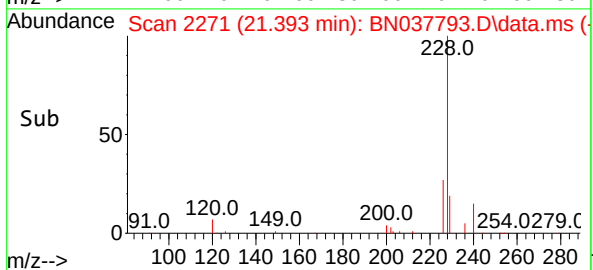
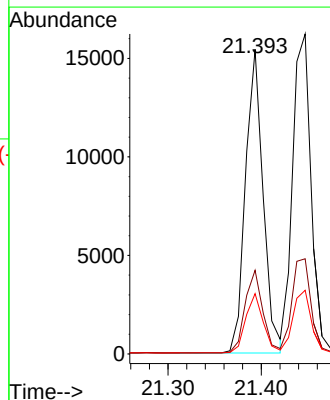
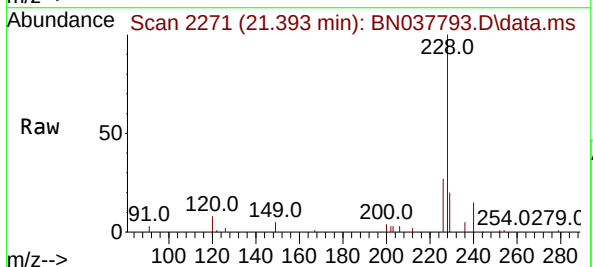
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

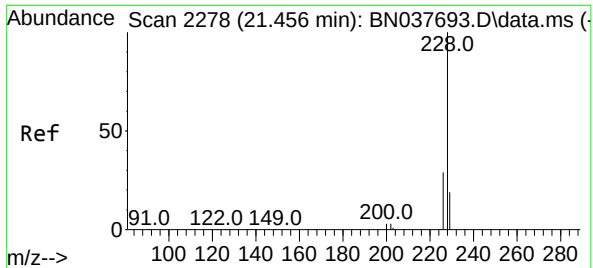
Tgt Ion:244 Resp: 11883
Ion Ratio Lower Upper
244 100
212 9.3 7.5 11.3
122 16.4 13.2 19.8



#32
Benzo(a)anthracene
Concen: 0.385 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:228 Resp: 20290
Ion Ratio Lower Upper
228 100
226 27.5 22.2 33.2
229 19.8 15.8 23.6





#33

Chrysene

Concen: 0.399 ng

RT: 21.447 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037793.D

Acq: 19 Sep 2025 00:52

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

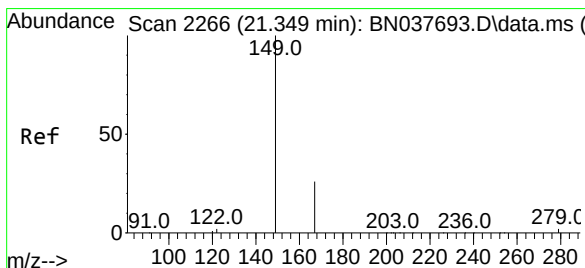
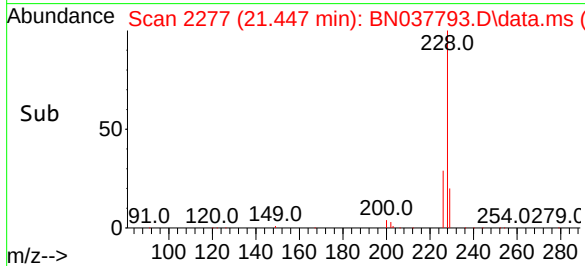
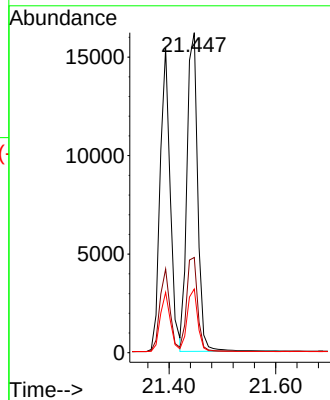
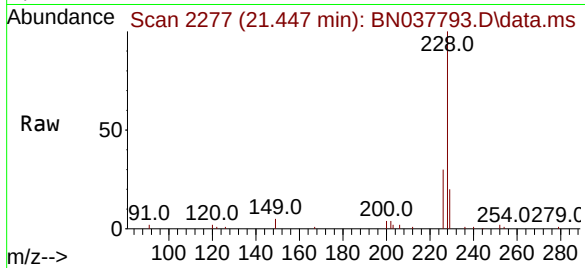
Tgt Ion:228 Resp: 22567

Ion Ratio Lower Upper

228 100

226 29.7 23.5 35.3

229 19.9 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.545 ng

RT: 21.331 min Scan# 2264

Delta R.T. -0.018 min

Lab File: BN037793.D

Acq: 19 Sep 2025 00:52

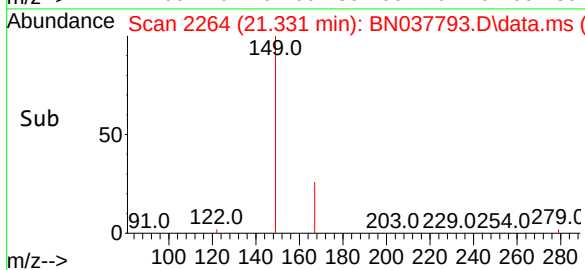
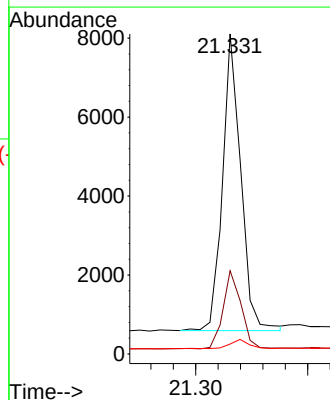
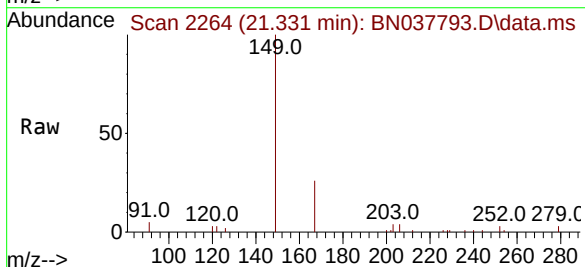
Tgt Ion:149 Resp: 8520

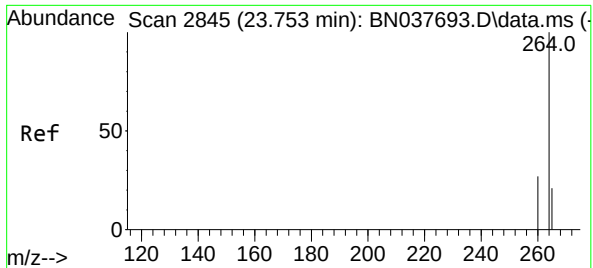
Ion Ratio Lower Upper

149 100

167 25.7 20.8 31.2

279 3.3 3.3 4.9

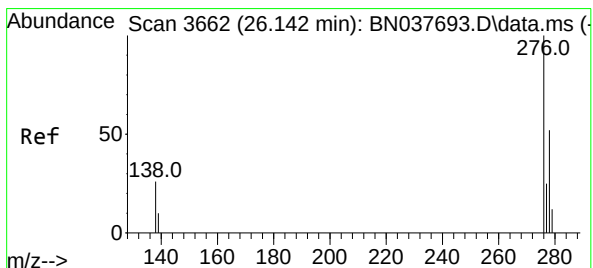
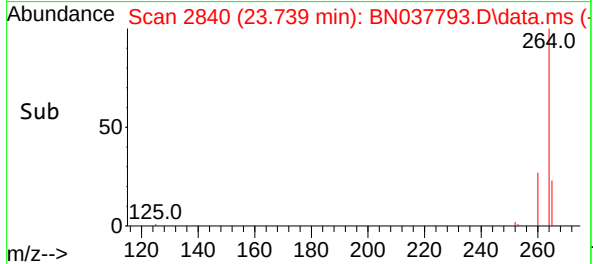
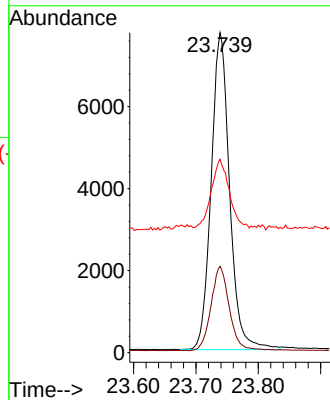
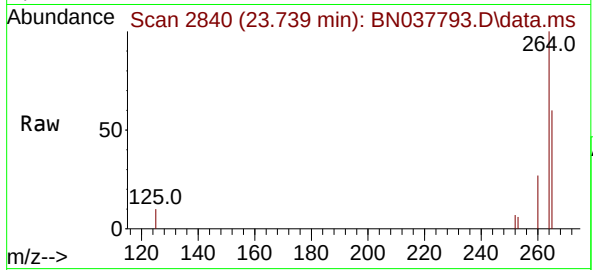




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.739 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

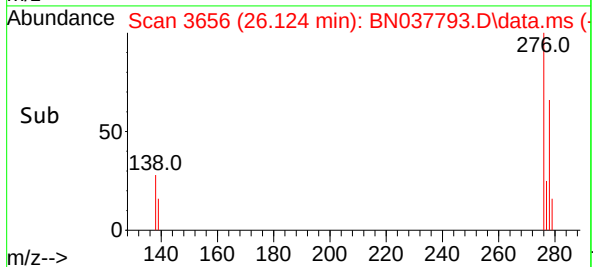
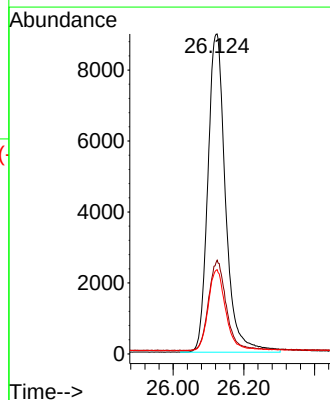
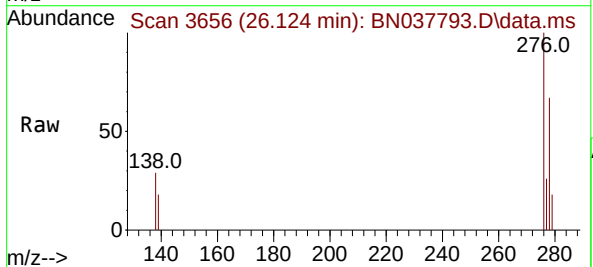
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

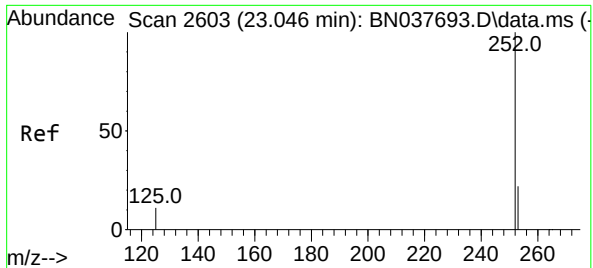
Tgt Ion:264 Resp: 15864
Ion Ratio Lower Upper
264 100
260 27.0 21.8 32.8
265 60.5 39.4 59.2#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.467 ng
RT: 26.124 min Scan# 3656
Delta R.T. -0.018 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:276 Resp: 31159
Ion Ratio Lower Upper
276 100
138 28.2 21.9 32.9
277 25.3 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.393 ng

RT: 23.034 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037793.D

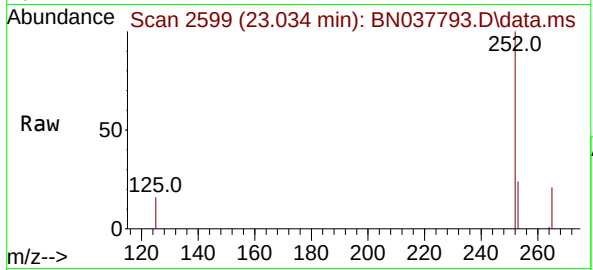
Acq: 19 Sep 2025 00:52

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



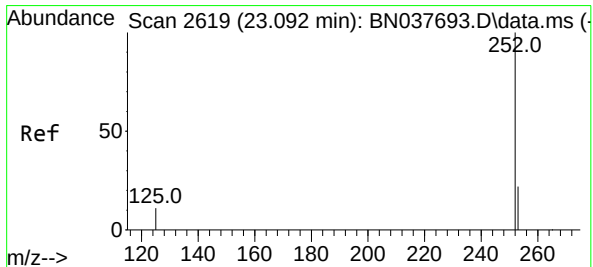
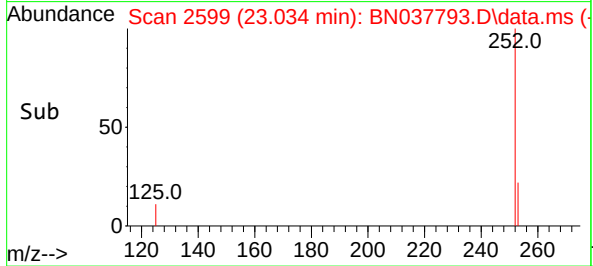
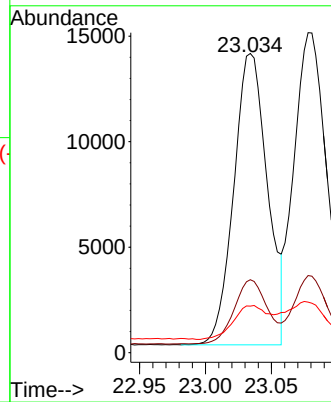
Tgt Ion:252 Resp: 24537

Ion Ratio Lower Upper

252 100

253 24.4 19.4 29.2

125 15.6 11.2 16.8



#38

Benzo(k)fluoranthene

Concen: 0.412 ng

RT: 23.078 min Scan# 2614

Delta R.T. -0.015 min

Lab File: BN037793.D

Acq: 19 Sep 2025 00:52

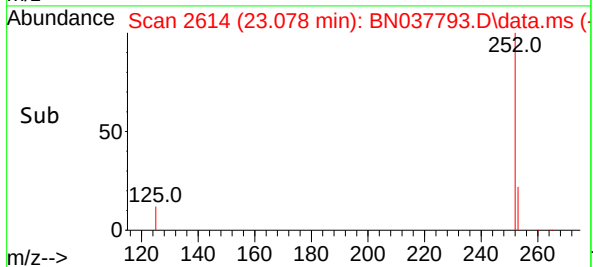
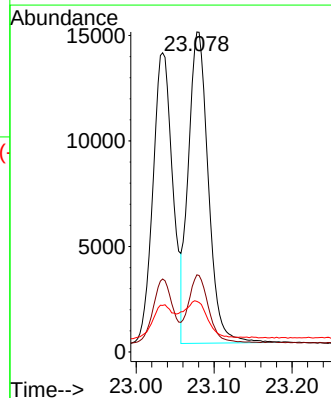
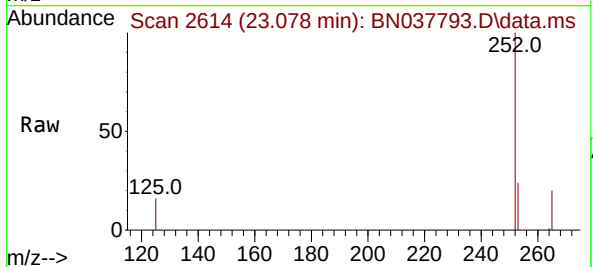
Tgt Ion:252 Resp: 26227

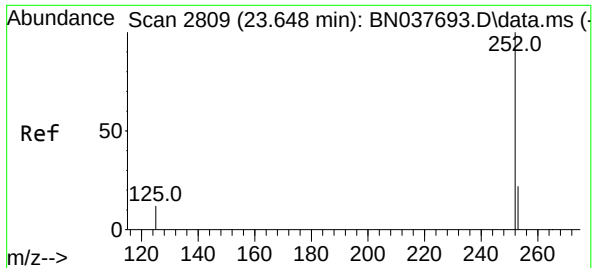
Ion Ratio Lower Upper

252 100

253 24.1 19.4 29.0

125 15.8 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.384 ng

RT: 23.636 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037793.D

Acq: 19 Sep 2025 00:52

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

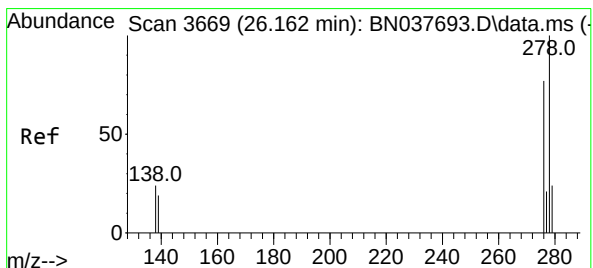
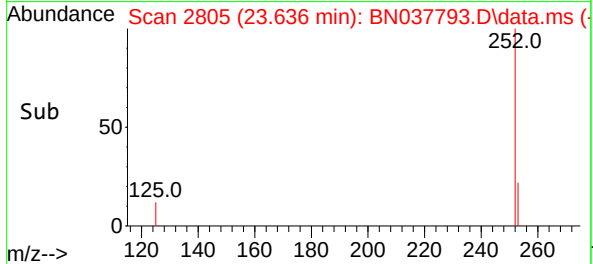
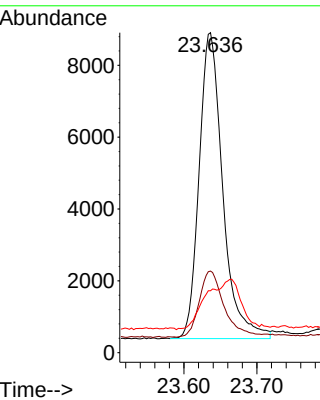
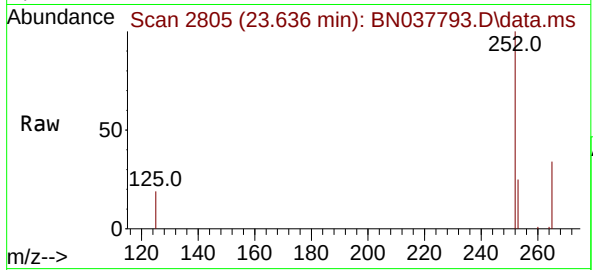
Tgt Ion:252 Resp: 19199

Ion Ratio Lower Upper

252 100

253 25.5 20.8 31.2

125 19.4 13.9 20.9



#40

Dibenzo(a,h)anthracene

Concen: 0.459 ng

RT: 26.139 min Scan# 3661

Delta R.T. -0.023 min

Lab File: BN037793.D

Acq: 19 Sep 2025 00:52

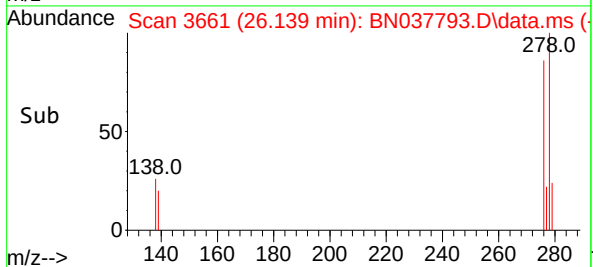
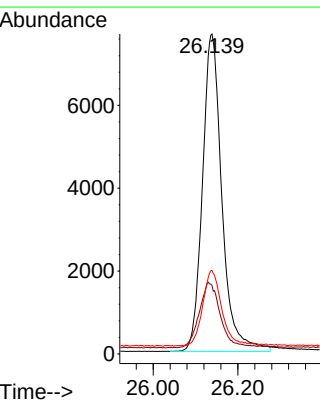
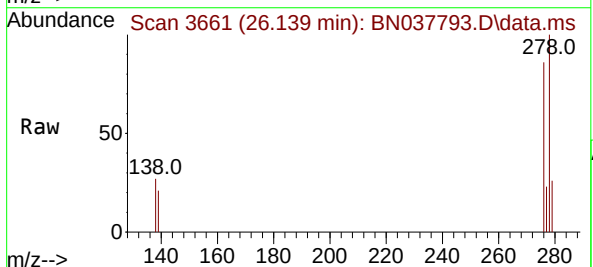
Tgt Ion:278 Resp: 24445

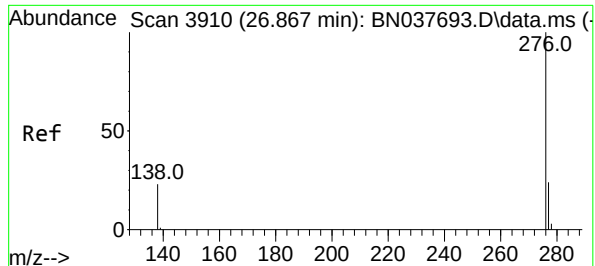
Ion Ratio Lower Upper

278 100

139 21.4 17.8 26.6

279 26.1 22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 0.413 ng

RT: 26.846 min Scan# 3910

Delta R.T. -0.021 min

Lab File: BN037793.D

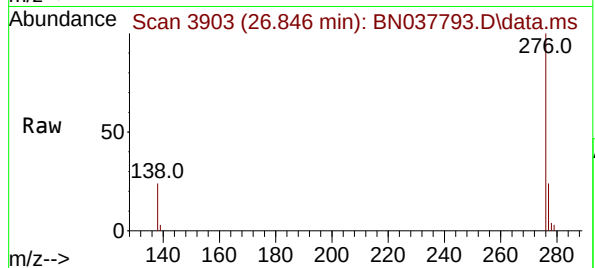
Acq: 19 Sep 2025 00:52

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



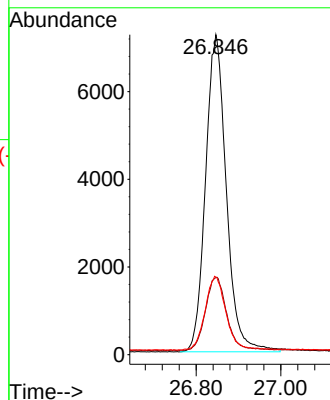
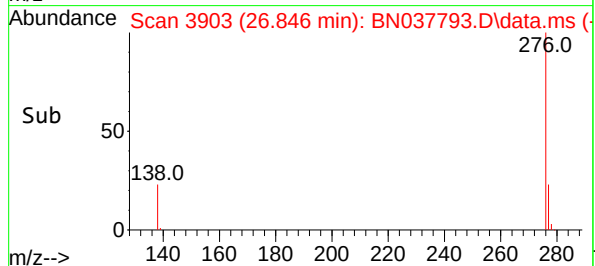
Tgt Ion:276 Resp: 24646

Ion Ratio Lower Upper

276 100

277 24.1 20.6 31.0

138 24.2 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
 Data File : BN037793.D
 Acq On : 19 Sep 2025 00:52
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 19 04:13:20 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	149	0.00
2	1,4-Dioxane	0.417	0.436	-4.6	154#	0.00
3	n-Nitrosodimethylamine	0.544	0.506	7.0	134	0.00
4 S	2-Fluorophenol	0.918	0.923	-0.5	154#	0.00
5 S	Phenol-d6	1.191	1.148	3.6	148	0.00
6	bis(2-Chloroethyl)ether	1.064	1.028	3.4	143	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	147	-0.01
8 S	Nitrobenzene-d5	0.293	0.295	-0.7	153#	-0.01
9	Naphthalene	1.093	1.073	1.8	147	-0.01
10	Hexachlorobutadiene	0.198	0.192	3.0	143	-0.01
11 SURR	2-Methylnaphthalene-d10	0.530	0.496	6.4	146	-0.01
12	2-Methylnaphthalene	0.676	0.651	3.7	145	-0.01
13 I	Acenaphthene-d10	1.000	1.000	0.0	147	-0.01
14 S	2,4,6-Tribromophenol	0.104	0.127	-22.1	185#	-0.01
15 S	2-Fluorobiphenyl	1.673	1.632	2.5	145	-0.01
16	Acenaphthylene	1.834	1.727	5.8	142	0.00
17	Acenaphthene	1.240	1.190	4.0	143	-0.01
18	Fluorene	1.502	1.448	3.6	147	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	149	0.00
20	4,6-Dinitro-2-methylphenol	0.037	0.033	10.8	151#	-0.01
21	4-Bromophenyl-phenylether	0.261	0.250	4.2	148	-0.01
22	Hexachlorobenzene	0.300	0.298	0.7	151#	-0.01
23	Atrazine	0.166	0.161	3.0	158#	-0.01
24	Pentachlorophenol	0.087	0.102	-17.2	205#	0.00
25	Phenanthrene	1.259	1.223	2.9	149	-0.01
26	Anthracene	1.116	1.055	5.5	147	-0.01
27 SURR	Fluoranthene-d10	1.004	0.954	5.0	152#	0.00
28	Fluoranthene	1.381	1.359	1.6	155#	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	161#	0.00
30	Pyrene	1.566	1.503	4.0	156#	0.00
31 S	Terphenyl-d14	0.812	0.785	3.3	158#	0.00
32	Benzo(a)anthracene	1.395	1.341	3.9	161#	0.00
33	Chrysene	1.496	1.492	0.3	161#	0.00
34	Bis(2-ethylhexyl)phthalate	0.414	0.563	-36.0#	242#	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	177#	-0.01
36	Indeno(1,2,3-cd)pyrene	1.681	1.964	-16.8	225#	-0.02
37	Benzo(b)fluoranthene	1.575	1.547	1.8	176#	-0.01
38	Benzo(k)fluoranthene	1.606	1.653	-2.9	192#	-0.01
39 C	Benzo(a)pyrene	1.261	1.210	4.0	178#	-0.01
40	Dibenzo(a,h)anthracene	1.342	1.541	-14.8	225#	-0.02
41	Benzo(g,h,i)perylene	1.506	1.554	-3.2	189#	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
 Data File : BN037793.D
 Acq On : 19 Sep 2025 00:52
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 19 04:13:20 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	149	0.00
2	1,4-Dioxane	0.400	0.418	-4.5	154	0.00
3	n-Nitrosodimethylamine	0.400	0.372	7.0	134	0.00
4 S	2-Fluorophenol	0.400	0.402	-0.5	154	0.00
5 S	Phenol-d6	0.400	0.386	3.5	148	0.00
6	bis(2-Chloroethyl)ether	0.400	0.386	3.5	143	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	147	-0.01
8 S	Nitrobenzene-d5	0.400	0.404	-1.0	153	-0.01
9	Naphthalene	0.400	0.393	1.8	147	-0.01
10	Hexachlorobutadiene	0.400	0.389	2.8	143	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.374	6.5	146	-0.01
12	2-Methylnaphthalene	0.400	0.385	3.8	145	-0.01
13 I	Acenaphthene-d10	0.400	0.400	0.0	147	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.488	-22.0	185	-0.01
15 S	2-Fluorobiphenyl	0.400	0.390	2.5	145	-0.01
16	Acenaphthylene	0.400	0.377	5.8	142	0.00
17	Acenaphthene	0.400	0.384	4.0	143	-0.01
18	Fluorene	0.400	0.386	3.5	147	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	149	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.362	9.5	151	-0.01
21	4-Bromophenyl-phenylether	0.400	0.383	4.3	148	-0.01
22	Hexachlorobenzene	0.400	0.397	0.8	151	-0.01
23	Atrazine	0.400	0.387	3.3	158	-0.01
24	Pentachlorophenol	0.400	0.470	-17.5	205	0.00
25	Phenanthrene	0.400	0.389	2.8	149	-0.01
26	Anthracene	0.400	0.378	5.5	147	-0.01
27 SURR	Fluoranthene-d10	0.400	0.380	5.0	152	0.00
28	Fluoranthene	0.400	0.394	1.5	155	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	161	0.00
30	Pyrene	0.400	0.384	4.0	156	0.00
31 S	Terphenyl-d14	0.400	0.387	3.3	158	0.00
32	Benzo(a)anthracene	0.400	0.385	3.8	161	0.00
33	Chrysene	0.400	0.399	0.3	161	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.545	-36.3#	242	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	177	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.467	-16.8	225	-0.02
37	Benzo(b)fluoranthene	0.400	0.393	1.8	176	-0.01
38	Benzo(k)fluoranthene	0.400	0.412	-3.0	192	-0.01
39 C	Benzo(a)pyrene	0.400	0.384	4.0	178	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.459	-14.8	225	-0.02
41	Benzo(g,h,i)perylene	0.400	0.413	-3.2	189	-0.02

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: AECO15
 Lab Code: ACE SDG No.: Q3095
 Instrument ID: BNA_N Calibration Date/Time: 09/19/2025 02:47
 Lab File ID: BN037795.D Init. Calib. Date(s): 09/11/2025 09/11/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 09:56 13:33
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.490		-7.5	20.0
Fluoranthene-d10	1.004	0.858		-14.5	20.0
2-Fluorophenol	0.918	0.830		-9.6	20.0
Phenol-d6	1.191	1.152		-3.3	20.0
Nitrobenzene-d5	0.293	0.308		5.1	20.0
2-Fluorobiphenyl	1.673	1.696		1.4	20.0
2,4,6-Tribromophenol	0.104	0.120		15.4	20.0
Terphenyl-d14	0.812	0.771		-5.0	20.0
1,4-Dioxane	0.417	0.391		-6.2	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
 Data File : BN037795.D
 Acq On : 19 Sep 2025 02:47
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Sep 19 04:13:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

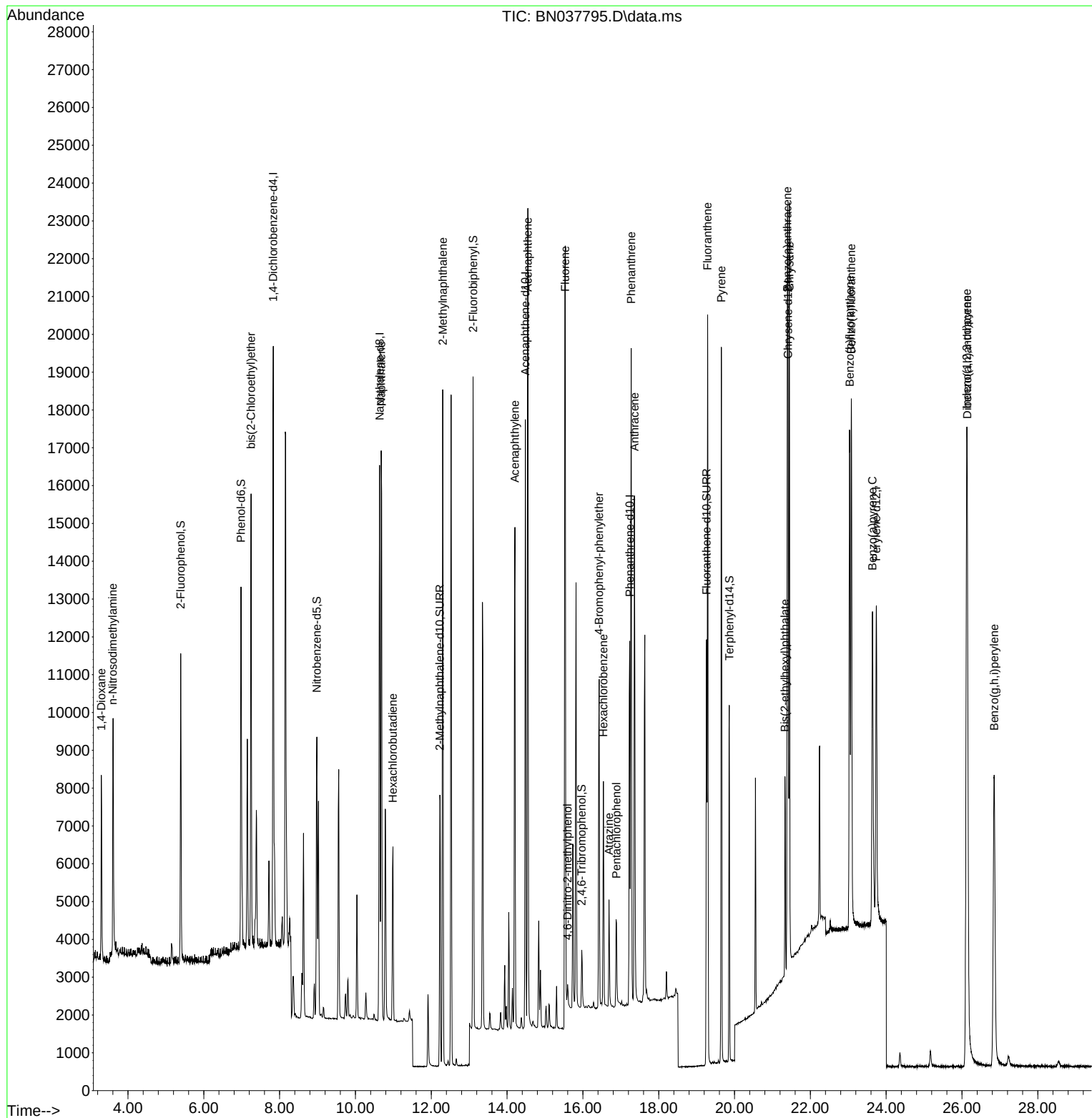
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7724	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	19361	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	8621	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	14380	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	11169	0.400	ng	0.00
35) Perylene-d12	23.742	264	11840	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	6414	0.362	ng	0.00
5) Phenol-d6	6.981	99	8898	0.387	ng	0.00
8) Nitrobenzene-d5	8.982	82	5961	0.421	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	9493	0.370	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	1034	0.460	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	14625	0.406	ng	-0.01
27) Fluoranthene-d10	19.262	212	12337	0.342	ng	0.00
31) Terphenyl-d14	19.861	244	8607	0.380	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	3022	0.376	ng	95
3) n-Nitrosodimethylamine	3.601	42	3835	0.365	ng	# 90
6) bis(2-Chloroethyl)ether	7.248	93	8278	0.403	ng	99
9) Naphthalene	10.680	128	20623	0.390	ng	100
10) Hexachlorobutadiene	10.989	225	3796	0.396	ng	# 99
12) 2-Methylnaphthalene	12.304	142	12533	0.383	ng	99
16) Acenaphthylene	14.206	152	14987	0.379	ng	100
17) Acenaphthene	14.548	154	10387	0.389	ng	97
18) Fluorene	15.535	166	11958	0.369	ng	99
20) 4,6-Dinitro-2-methylph...	15.597	198	430	0.323	ng	# 74
21) 4-Bromophenyl-phenylether	16.429	248	3726	0.397	ng	# 96
22) Hexachlorobenzene	16.540	284	4695	0.435	ng	98
23) Atrazine	16.689	200	2195	0.368	ng	# 95
24) Pentachlorophenol	16.888	266	1416	0.452	ng	96
25) Phenanthrene	17.273	178	17514	0.387	ng	99
26) Anthracene	17.360	178	14982	0.374	ng	100
28) Fluoranthene	19.290	202	17532	0.353	ng	100
30) Pyrene	19.652	202	17441	0.399	ng	100
32) Benzo(a)anthracene	21.393	228	14838	0.381	ng	100
33) Chrysene	21.447	228	16770	0.401	ng	99
34) Bis(2-ethylhexyl)phtha...	21.331	149	4946	0.428	ng	99
36) Indeno(1,2,3-cd)pyrene	26.124	276	22723	0.457	ng	99
37) Benzo(b)fluoranthene	23.037	252	17698	0.380	ng	98
38) Benzo(k)fluoranthene	23.081	252	18956	0.399	ng	97
39) Benzo(a)pyrene	23.636	252	14490	0.388	ng	97
40) Dibenzo(a,h)anthracene	26.139	278	17796	0.448	ng	98
41) Benzo(g,h,i)perylene	26.849	276	18357	0.412	ng	97

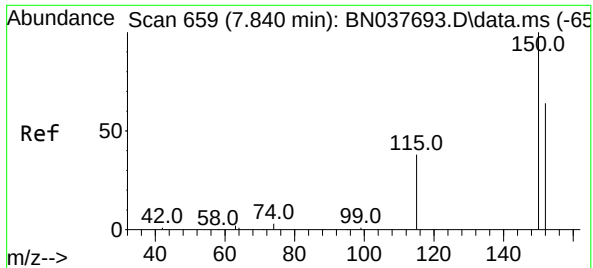
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
 Data File : BN037795.D
 Acq On : 19 Sep 2025 02:47
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Sep 19 04:13:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

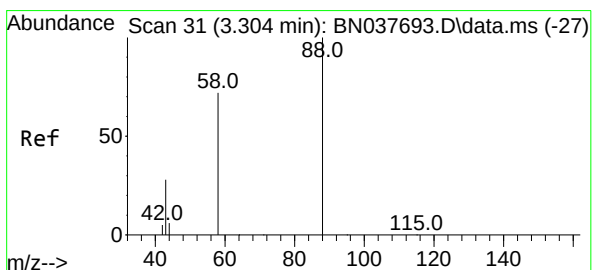
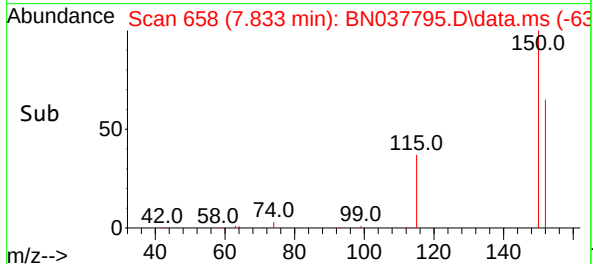
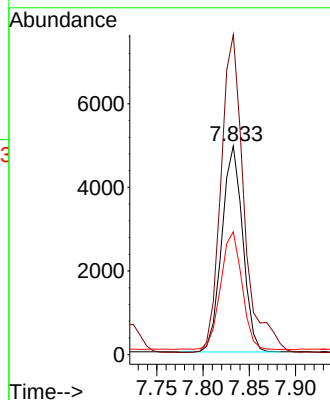
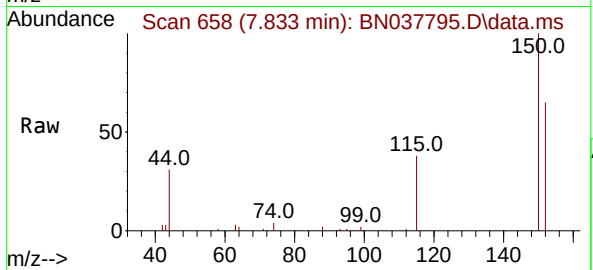




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

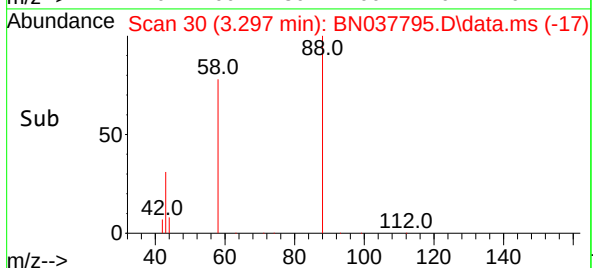
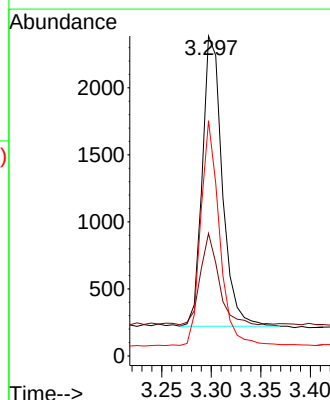
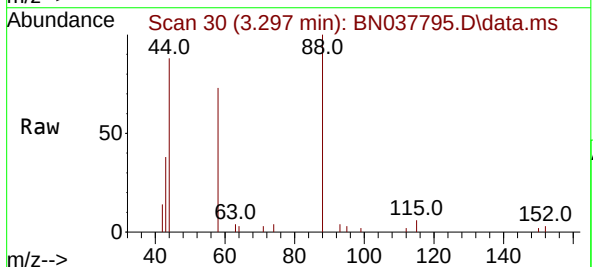
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

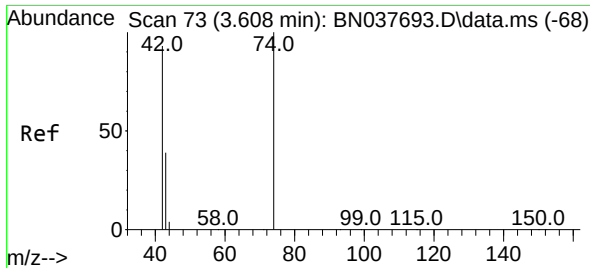
Tgt Ion:152 Resp: 7724
Ion Ratio Lower Upper
152 100
150 153.2 124.5 186.7
115 58.8 49.2 73.8



#2
1,4-Dioxane
Concen: 0.376 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion: 88 Resp: 3022
Ion Ratio Lower Upper
88 100
43 29.0 26.8 40.2
58 73.9 61.9 92.9

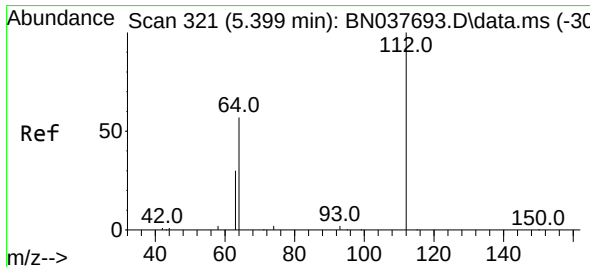
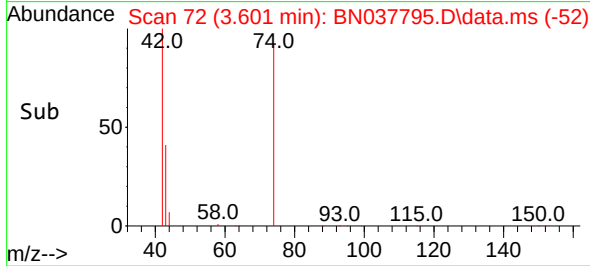
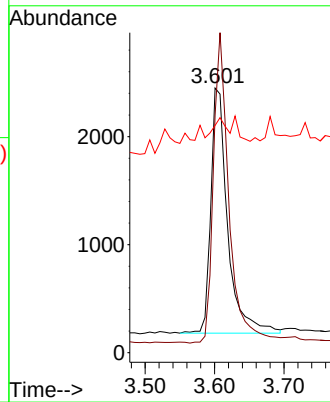
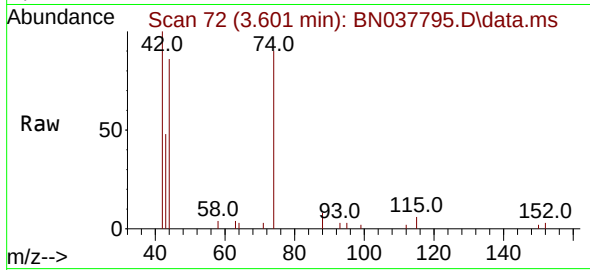




#3
n-Nitrosodimethylamine
Concen: 0.365 ng
RT: 3.601 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

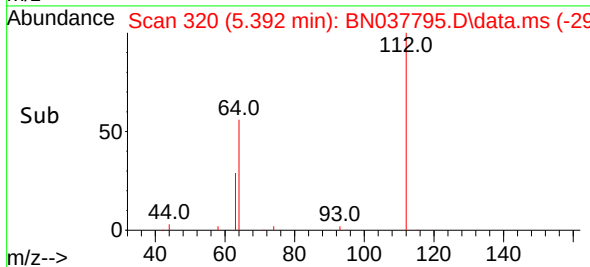
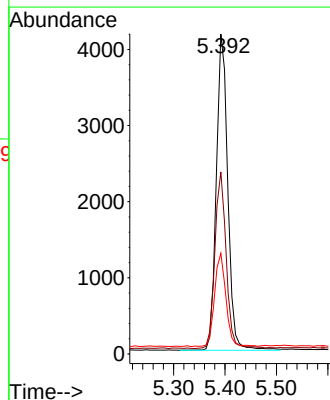
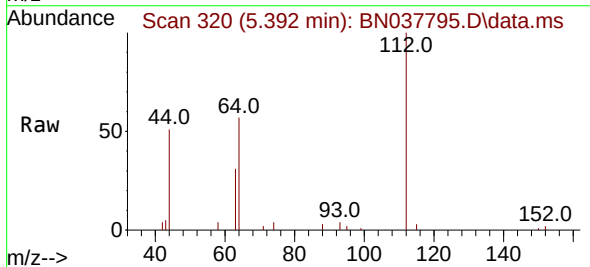
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

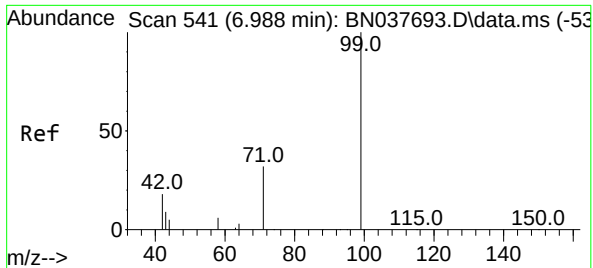
Tgt Ion: 42 Resp: 3835
Ion Ratio Lower Upper
42 100
74 117.9 86.0 129.0
44 5.8 8.4 12.6#



#4
2-Fluorophenol
Concen: 0.362 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion: 112 Resp: 6414
Ion Ratio Lower Upper
112 100
64 55.5 44.9 67.3
63 28.9 24.7 37.1

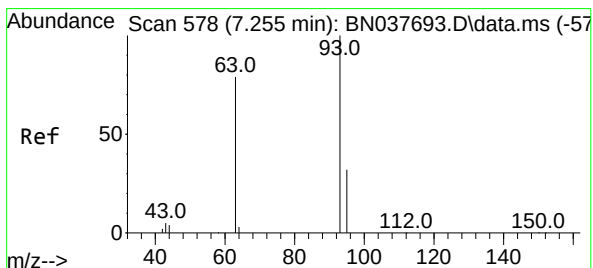
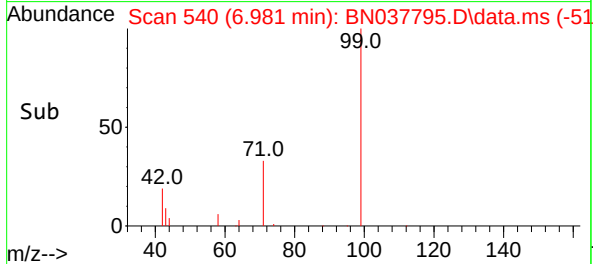
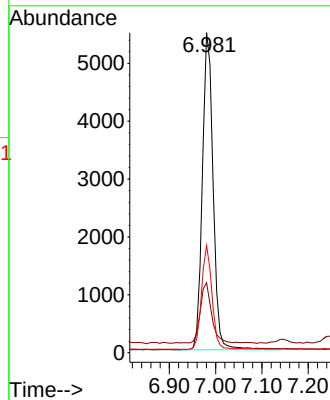
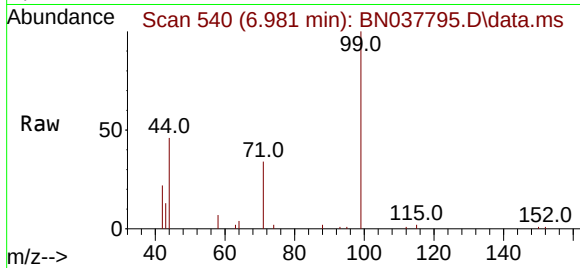




#5
Phenol-d6
Concen: 0.387 ng
RT: 6.981 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

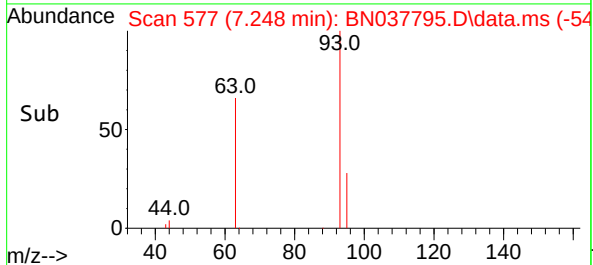
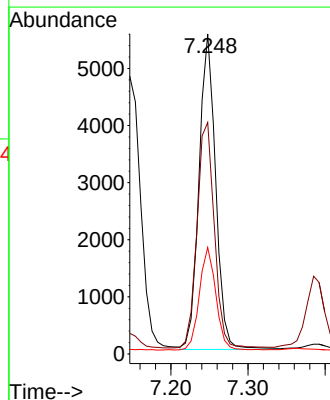
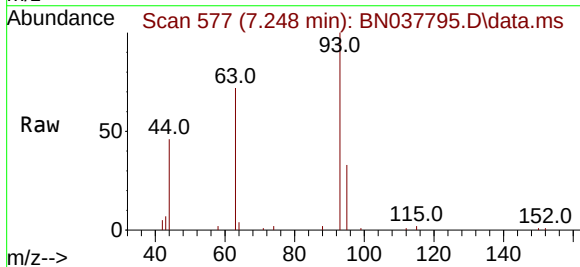
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

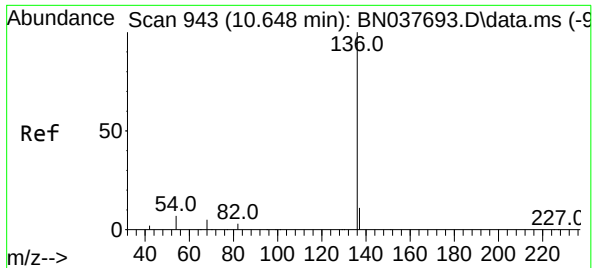
Tgt Ion: 99 Resp: 8898
Ion Ratio Lower Upper
99 100
42 20.3 16.6 24.8
71 31.9 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.403 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion: 93 Resp: 8278
Ion Ratio Lower Upper
93 100
63 74.3 60.6 90.8
95 32.5 26.0 39.0

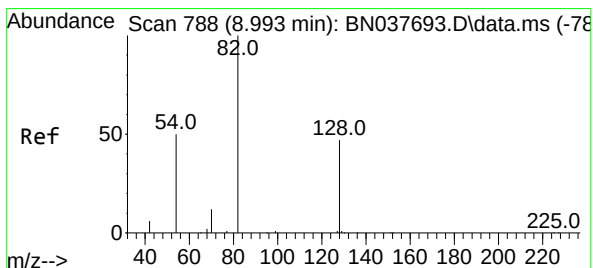
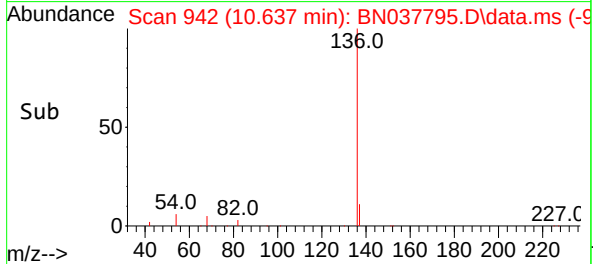
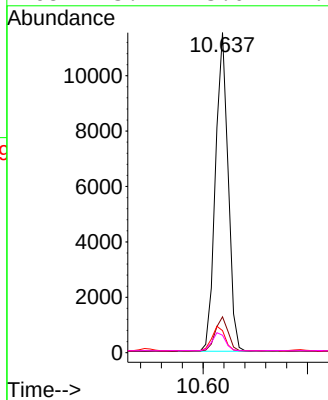
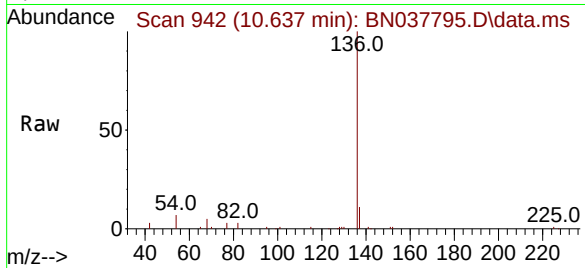




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

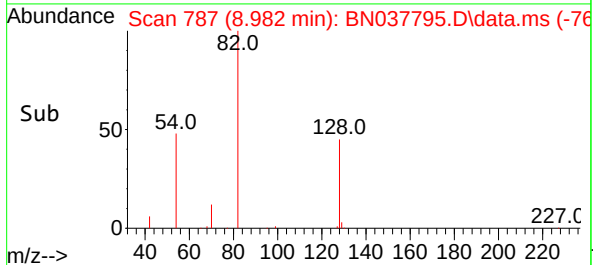
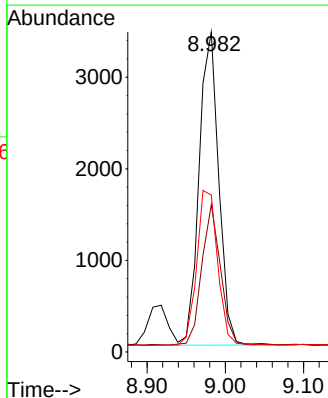
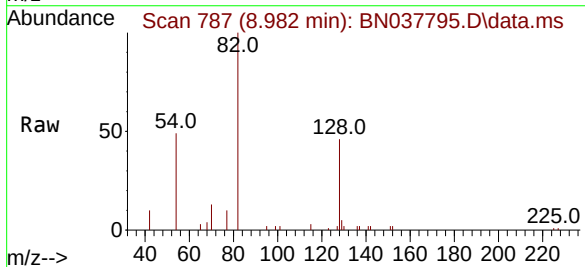
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

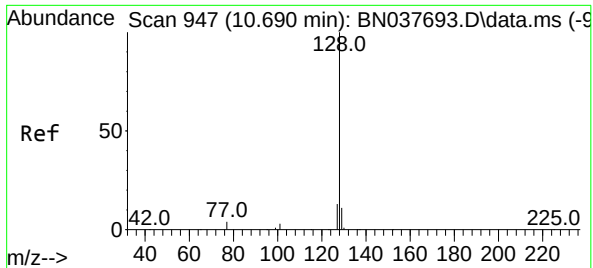
Tgt Ion:	136	Resp:	19361
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	6.9	6.3	9.5
68	5.4	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.421 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:	82	Resp:	5961
Ion	Ratio	Lower	Upper
82	100		
128	46.0	38.3	57.5
54	49.1	41.4	62.2

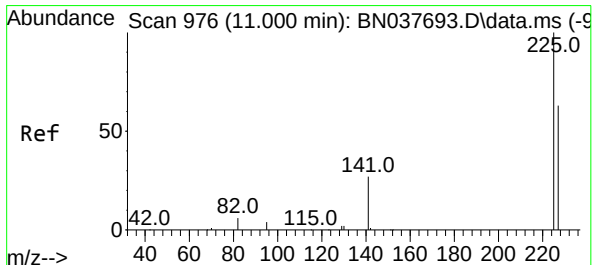
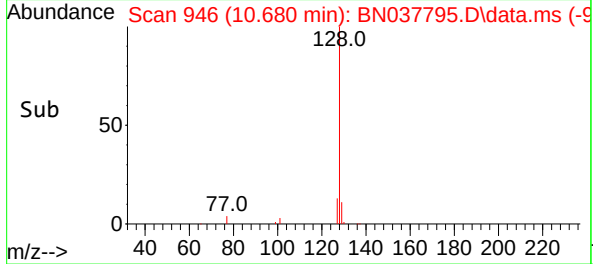
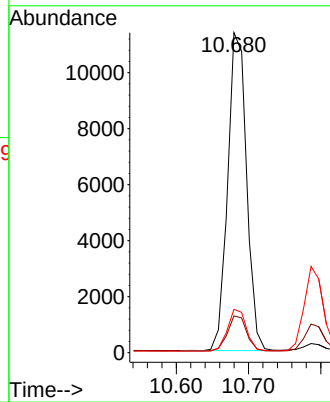
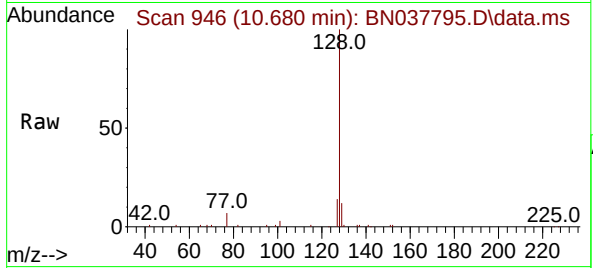




#9
Naphthalene
Concen: 0.390 ng
RT: 10.680 min Scan# 946
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

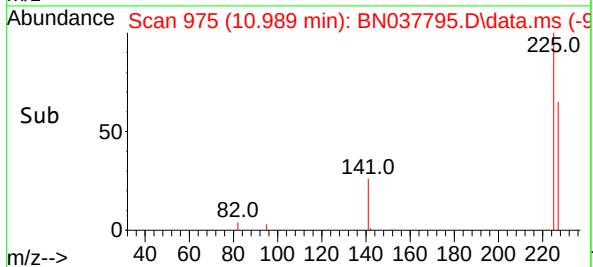
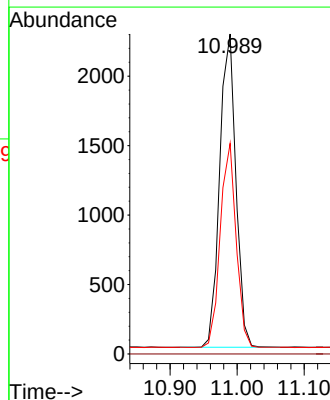
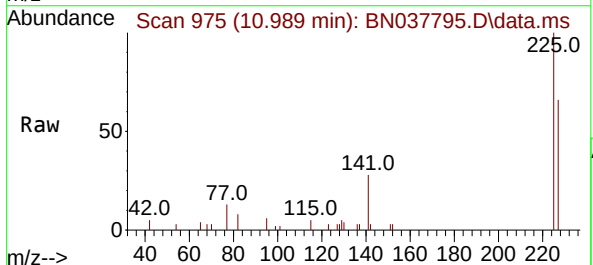
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

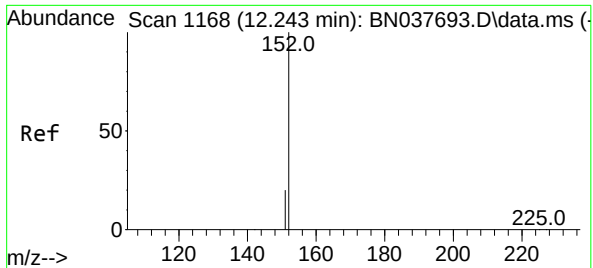
Tgt Ion:128 Resp: 20623
Ion Ratio Lower Upper
128 100
129 11.5 9.1 13.7
127 13.6 10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.396 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:225 Resp: 3796
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.1 50.9 76.3

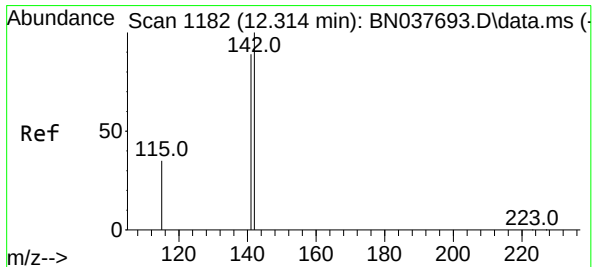
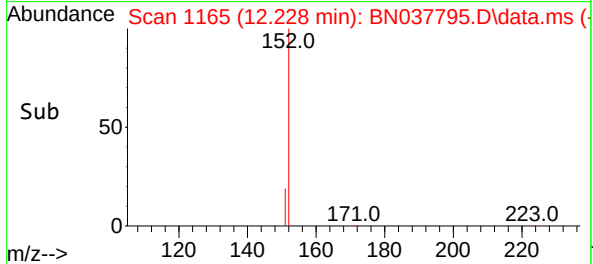
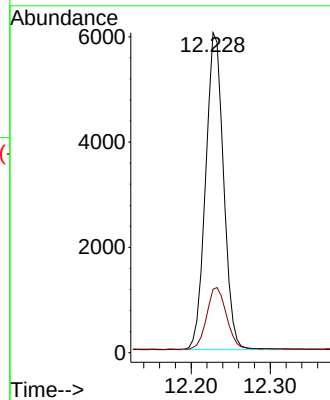
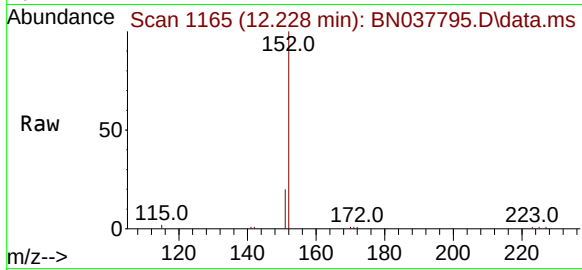




#11
2-Methylnaphthalene-d10
Concen: 0.370 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

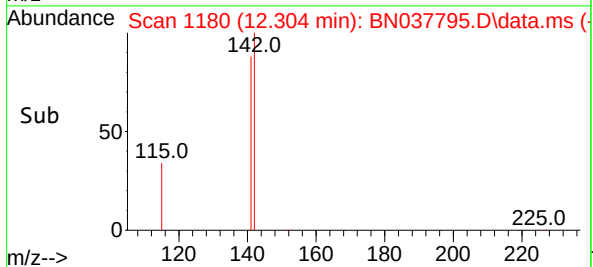
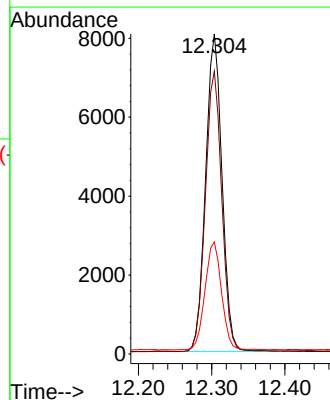
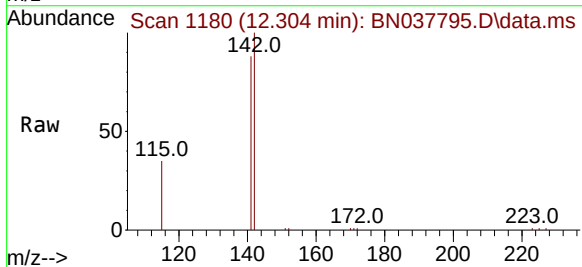
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

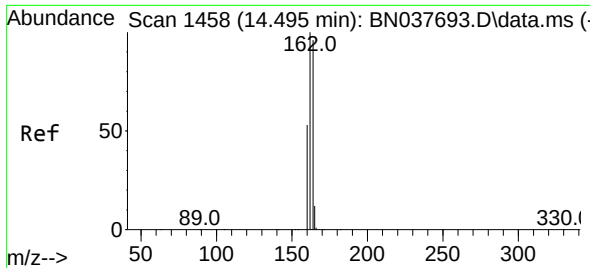
Tgt Ion:152 Resp: 9493
Ion Ratio Lower Upper
152 100
151 21.8 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.383 ng
RT: 12.304 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:142 Resp: 12533
Ion Ratio Lower Upper
142 100
141 88.4 71.6 107.4
115 35.0 28.6 43.0

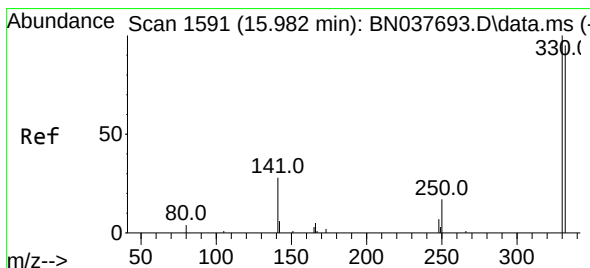
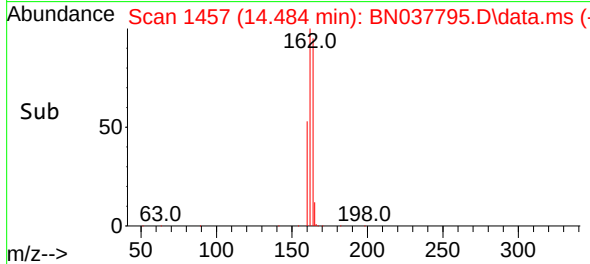
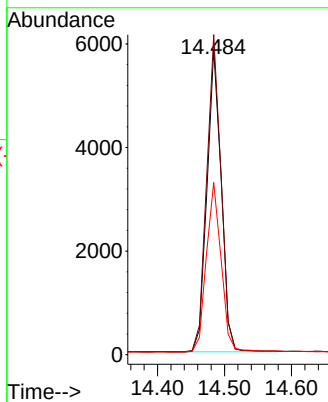
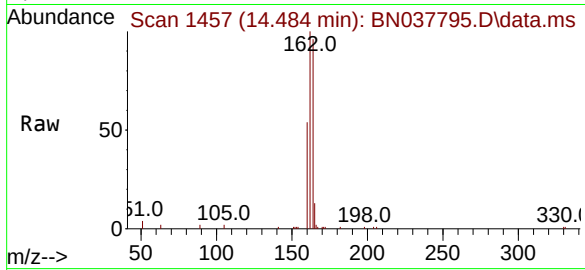




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

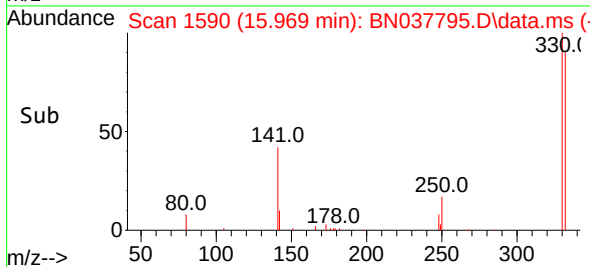
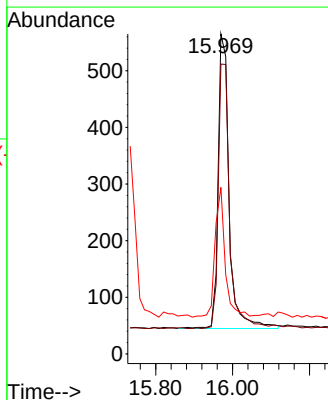
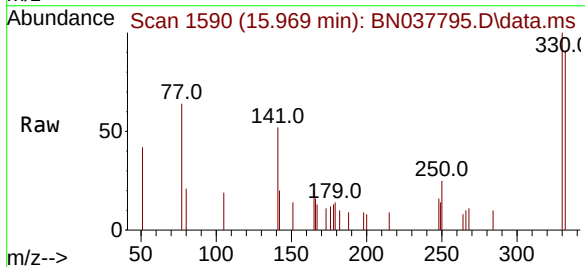
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

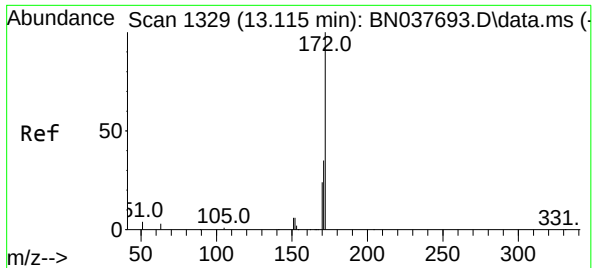
Tgt Ion	164	162	160
Resp:	8621		
Ion Ratio	100	104.7	56.3
Lower		83.1	44.3
Upper		124.7	66.5



#14
2,4,6-Tribromophenol
Concen: 0.460 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion	330	332	141
Resp:	1034		
Ion Ratio	100	92.1	40.2
Lower		75.3	35.0
Upper		112.9	52.4

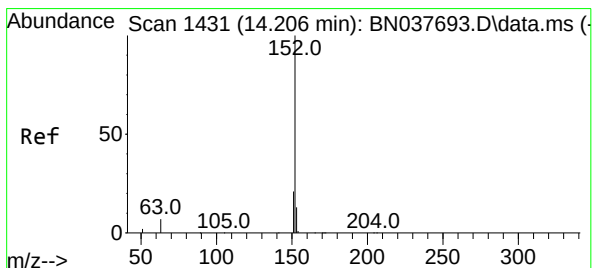
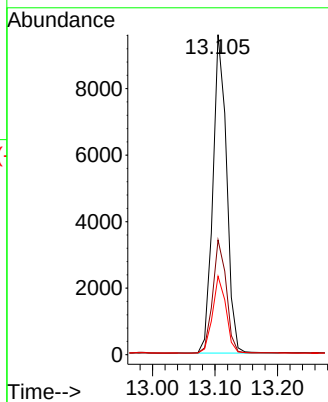
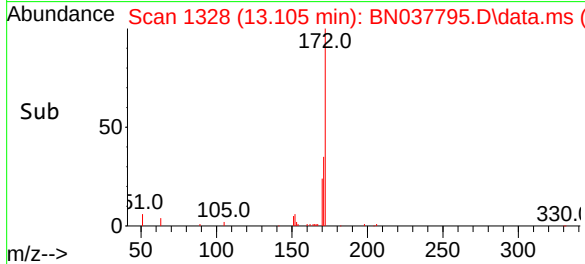
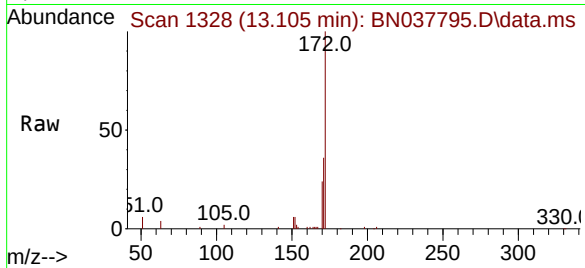




#15
2-Fluorobiphenyl
Concen: 0.406 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

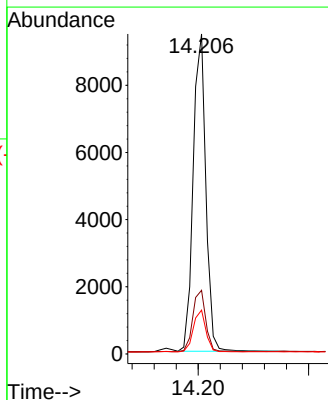
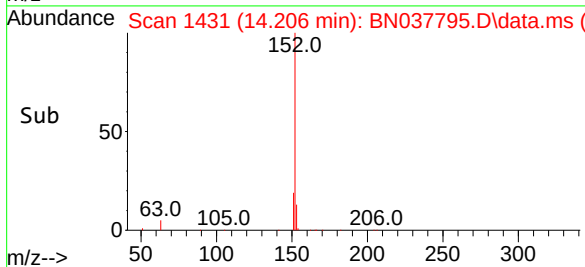
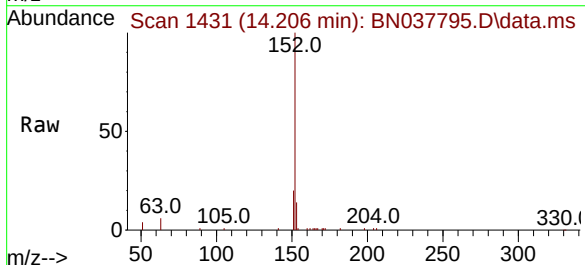
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

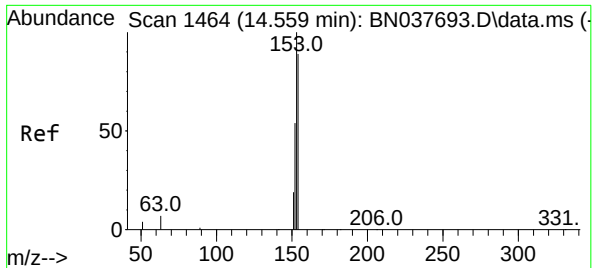
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.6	43.0
170	24.5	19.8	29.8



#16
Acenaphthylene
Concen: 0.379 ng
RT: 14.206 min Scan# 1431
Delta R.T. 0.000 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

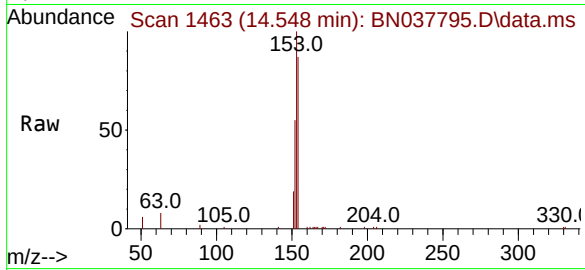
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.2
153	13.0	10.4	15.6



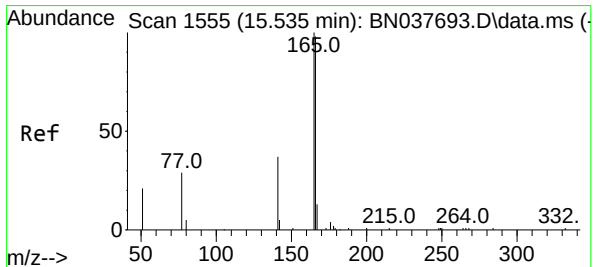
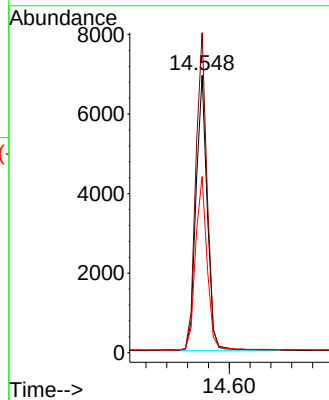
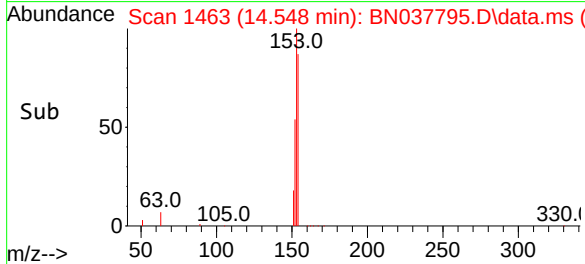


#17
Acenaphthene
Concen: 0.389 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

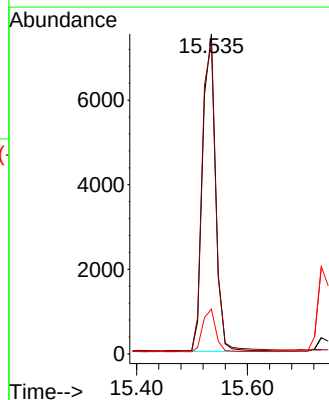
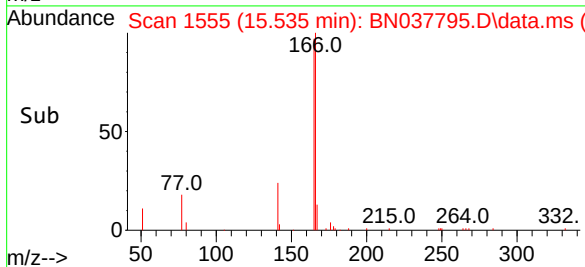
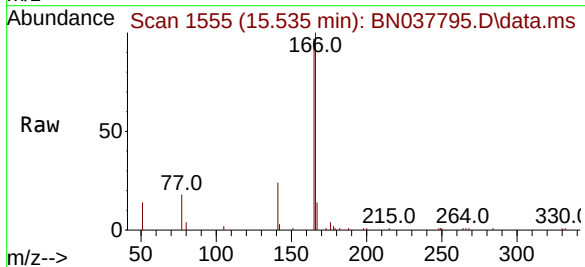


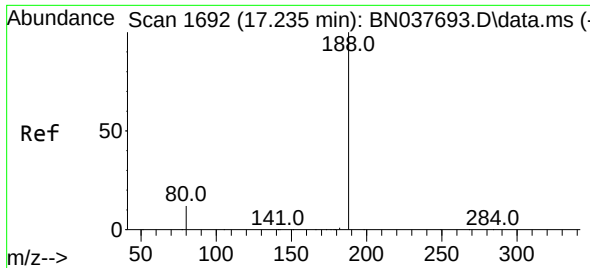
Tgt Ion:154 Resp: 10387
Ion Ratio Lower Upper
154 100
153 115.4 89.8 134.8
152 65.2 50.2 75.2



#18
Fluorene
Concen: 0.369 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.000 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:166 Resp: 11958
Ion Ratio Lower Upper
166 100
165 100.3 79.6 119.4
167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037795.D

Acq: 19 Sep 2025 02:47

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

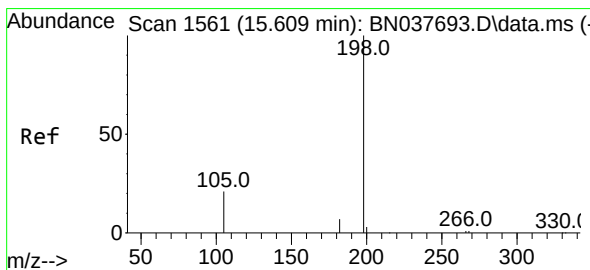
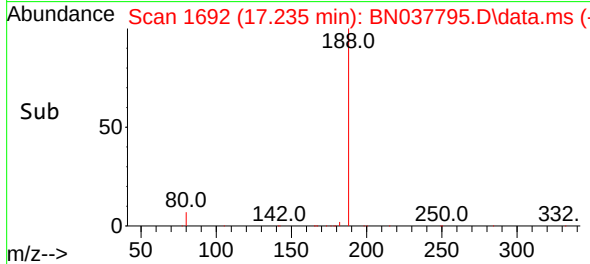
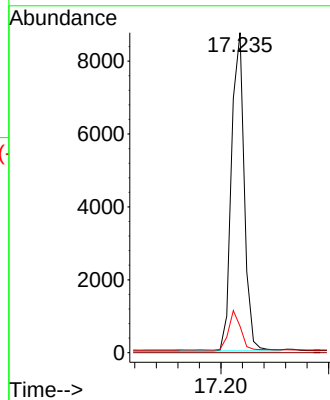
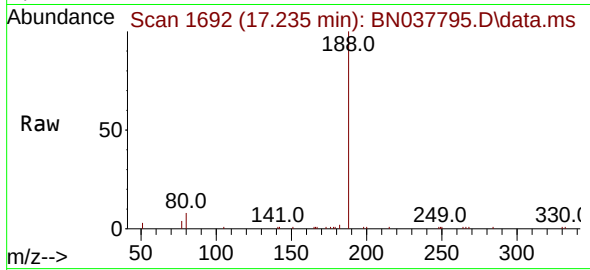
Tgt Ion:188 Resp: 14380

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.3 10.6 15.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.323 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.012 min

Lab File: BN037795.D

Acq: 19 Sep 2025 02:47

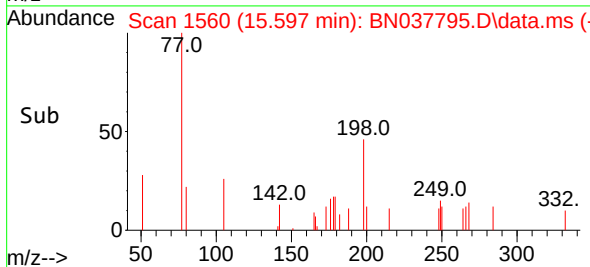
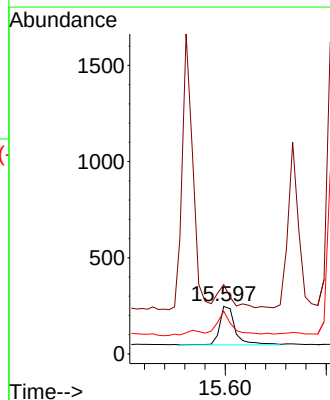
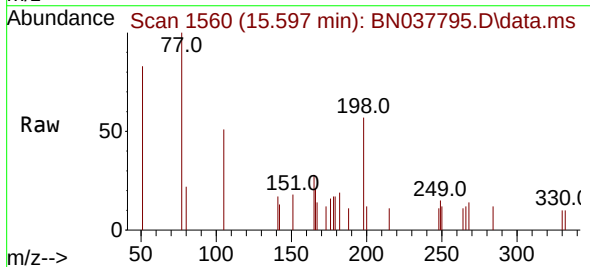
Tgt Ion:198 Resp: 430

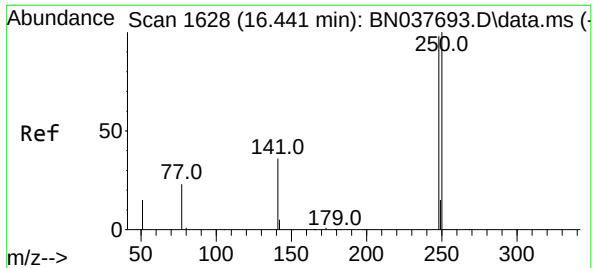
Ion Ratio Lower Upper

198 100

51 145.7 95.1 142.7#

105 89.9 53.8 80.6#

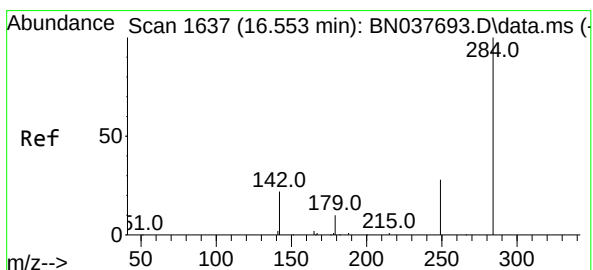
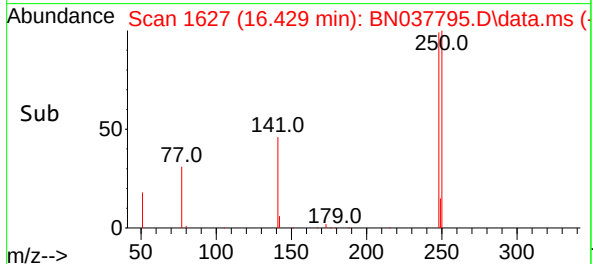
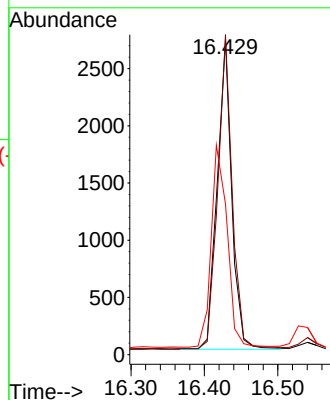
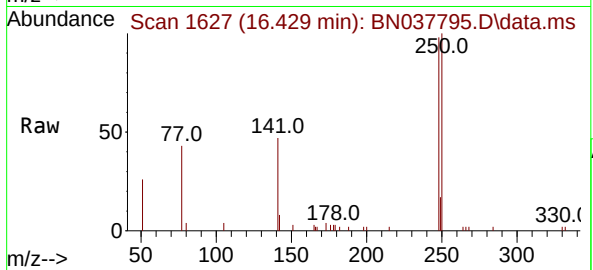




#21
4-Bromophenyl-phenylether
Concen: 0.397 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

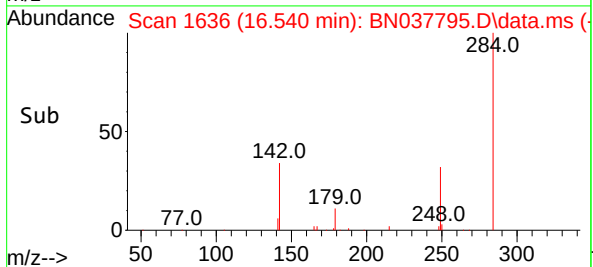
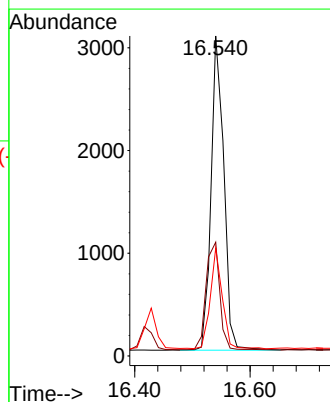
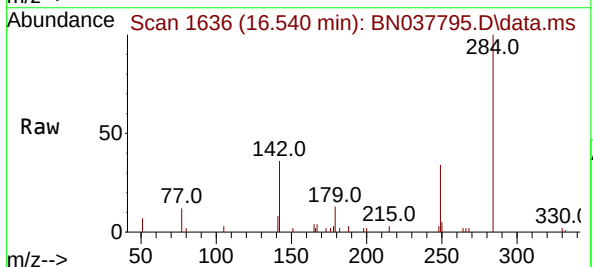
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

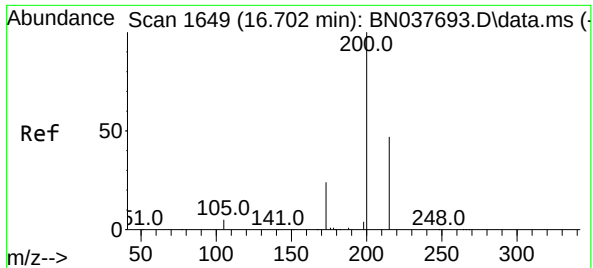
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.6	81.5	122.3
141	47.8	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.435 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.2	30.9	46.3
249	30.1	24.8	37.2

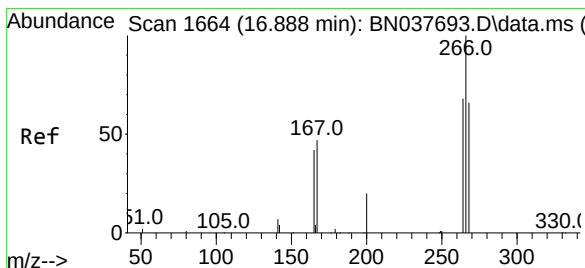
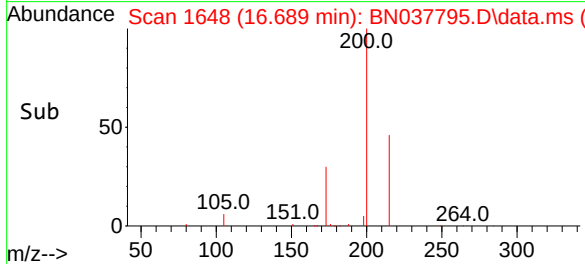
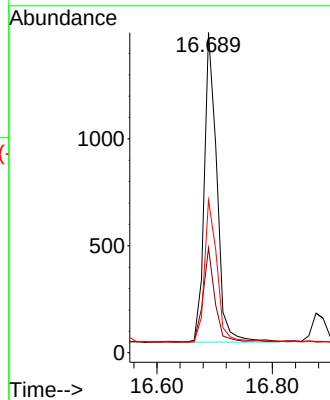
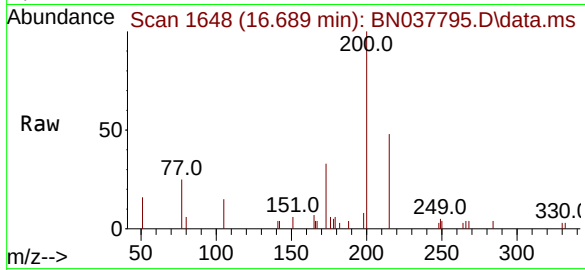




#23
Atrazine
Concen: 0.368 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

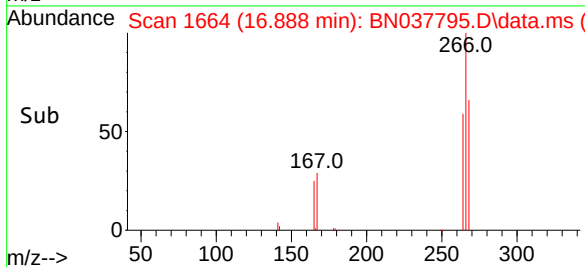
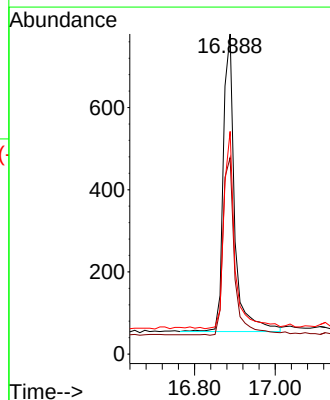
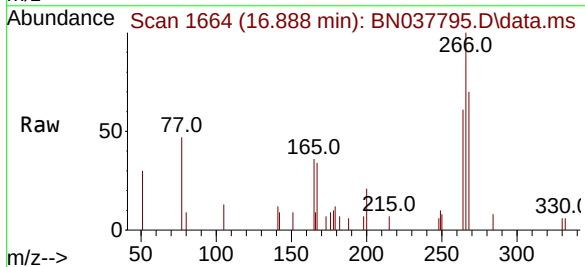
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

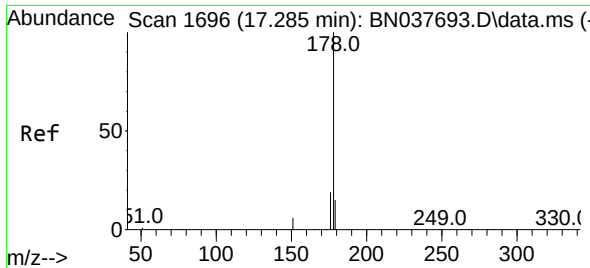
Tgt Ion:200 Resp: 2195
Ion Ratio Lower Upper
200 100
173 32.7 21.4 32.2#
215 47.6 39.2 58.8



#24
Pentachlorophenol
Concen: 0.452 ng
RT: 16.888 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:266 Resp: 1416
Ion Ratio Lower Upper
266 100
264 61.1 51.6 77.4
268 64.3 53.2 79.8

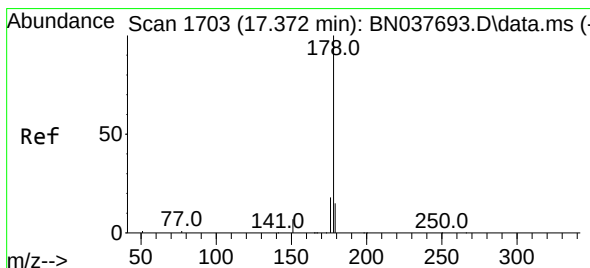
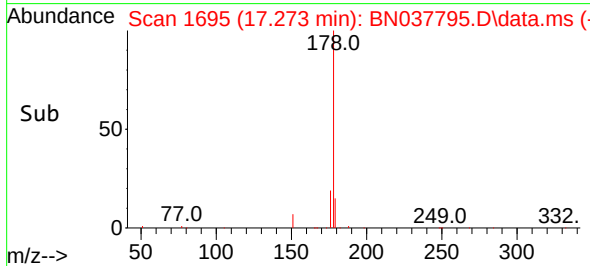
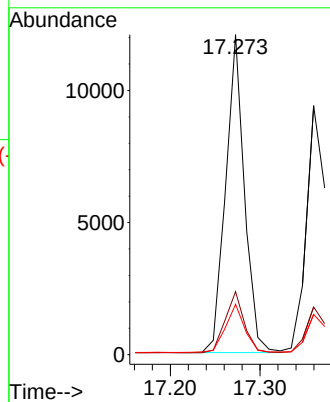
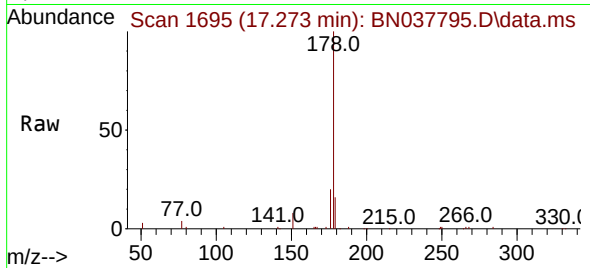




#25
Phenanthrene
Concen: 0.387 ng
RT: 17.273 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

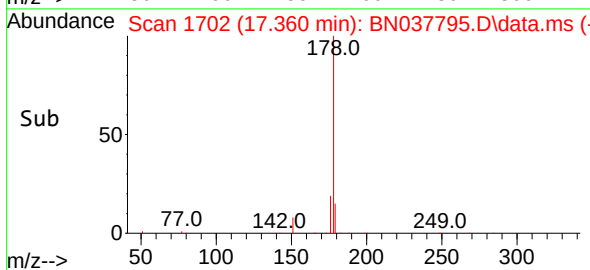
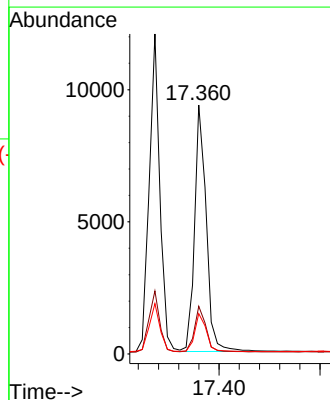
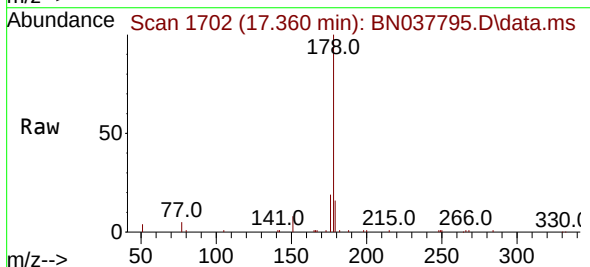
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

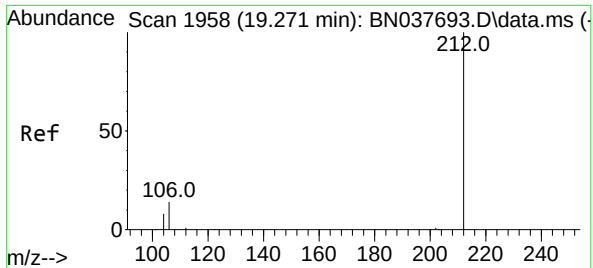
Tgt Ion:178 Resp: 17514
Ion Ratio Lower Upper
178 100
176 19.3 15.3 22.9
179 15.6 12.2 18.2



#26
Anthracene
Concen: 0.374 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:178 Resp: 14982
Ion Ratio Lower Upper
178 100
176 18.5 14.6 22.0
179 15.3 12.2 18.4

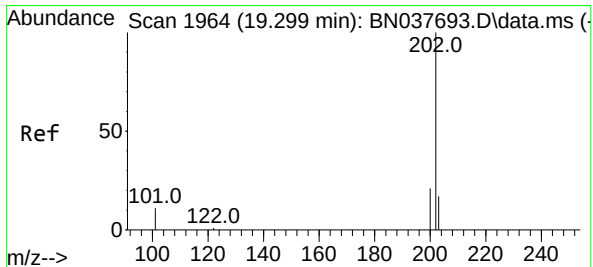
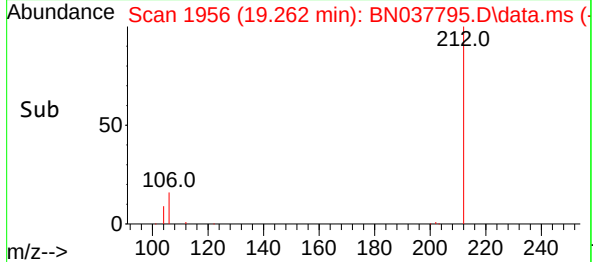
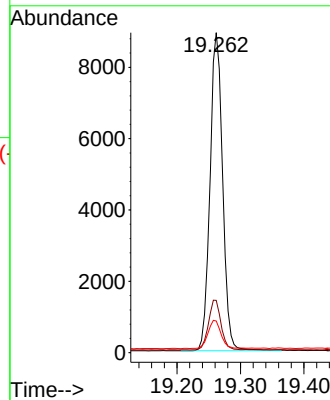
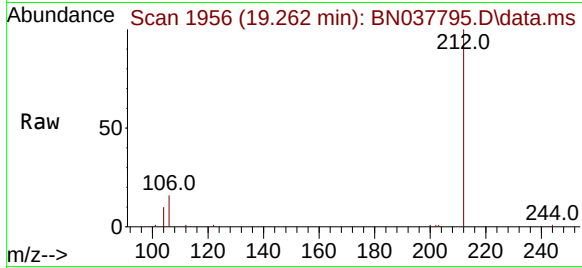




#27
Fluoranthene-d10
Concen: 0.342 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

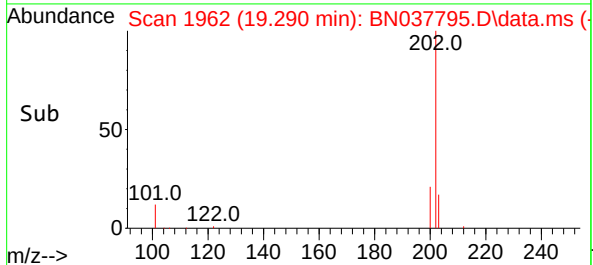
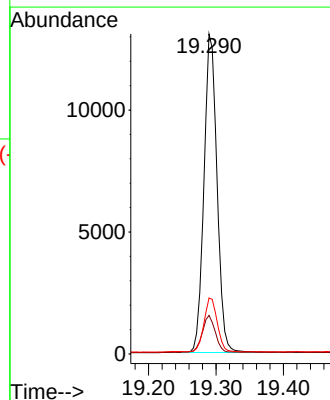
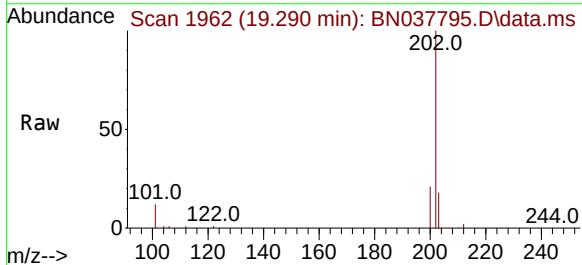
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

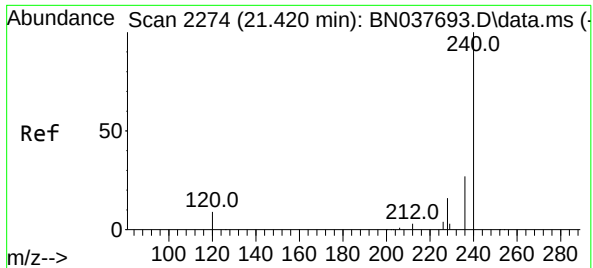
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.5	12.2	18.2
104	9.0	6.9	10.3



#28
Fluoranthene
Concen: 0.353 ng
RT: 19.290 min Scan# 1962
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.3	13.9
203	17.1	13.7	20.5

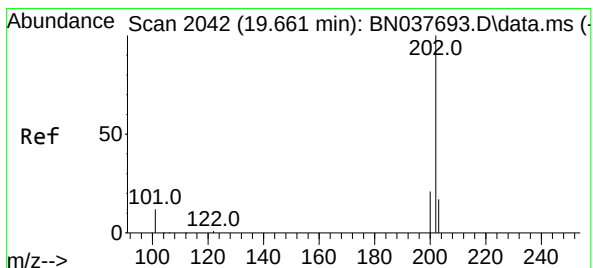
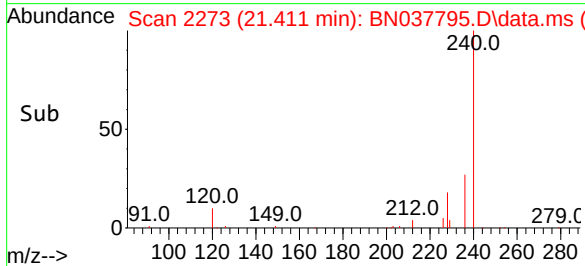
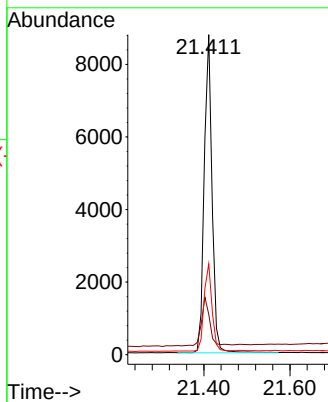
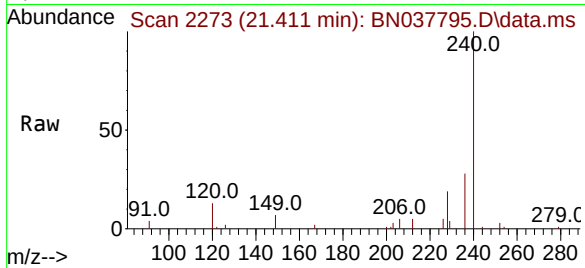




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21169
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

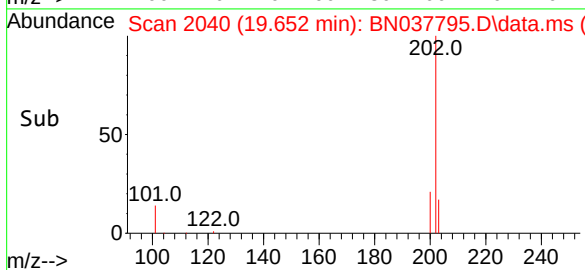
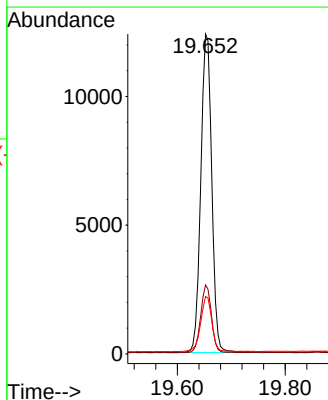
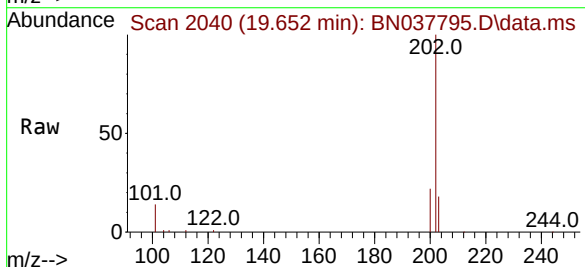
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

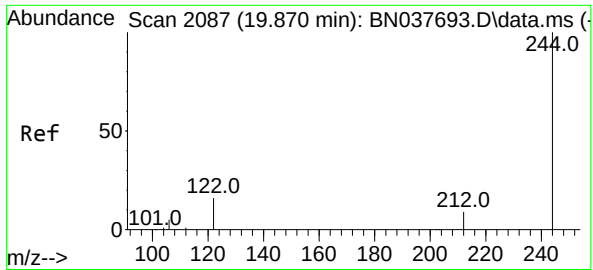
Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.6	9.2	13.8
236	28.4	22.6	33.8



#30
Pyrene
Concen: 0.399 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.8	25.2
203	17.6	14.3	21.5

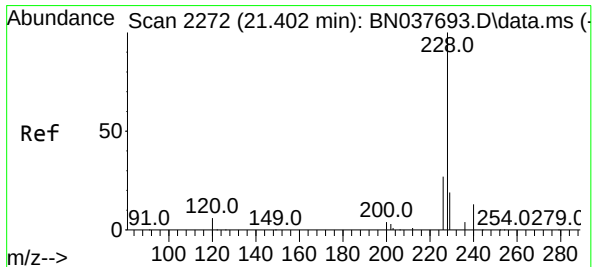
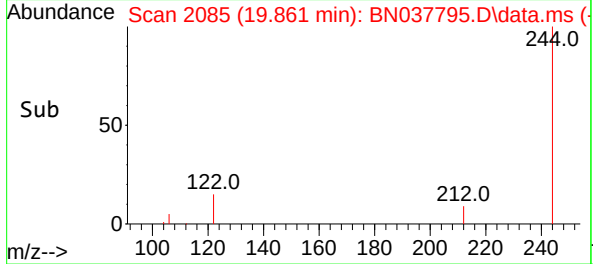
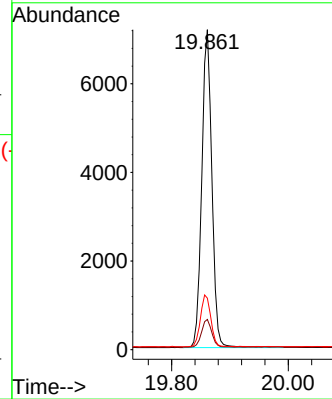
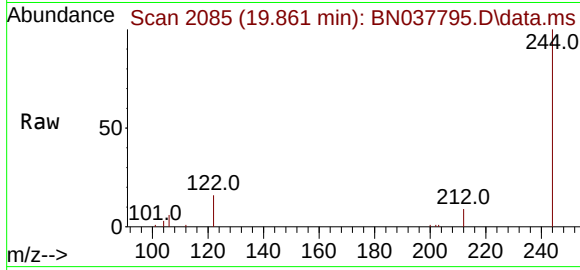




#31
Terphenyl-d14
Concen: 0.380 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

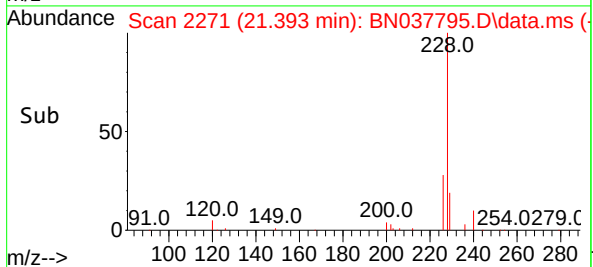
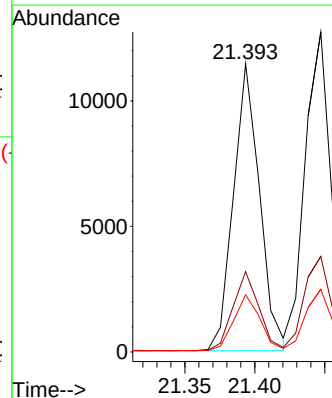
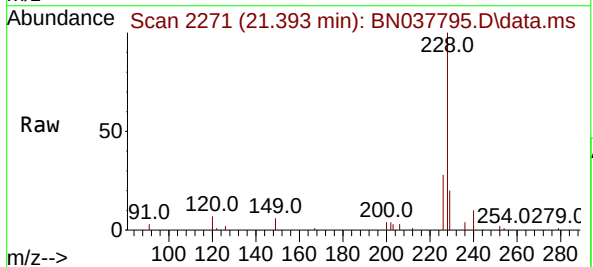
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

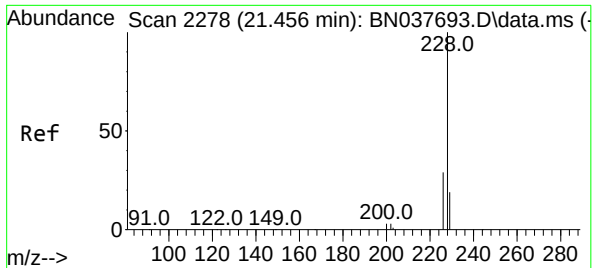
Tgt Ion:244 Resp: 8607
Ion Ratio Lower Upper
244 100
212 9.4 7.5 11.3
122 16.1 13.2 19.8



#32
Benzo(a)anthracene
Concen: 0.381 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:228 Resp: 14838
Ion Ratio Lower Upper
228 100
226 27.9 22.2 33.2
229 19.8 15.8 23.6

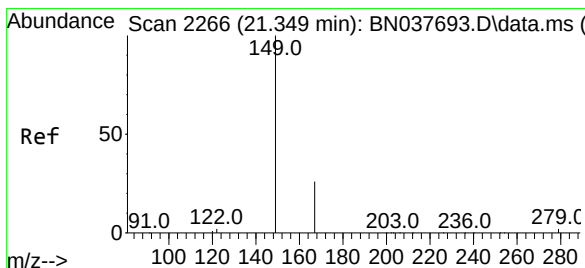
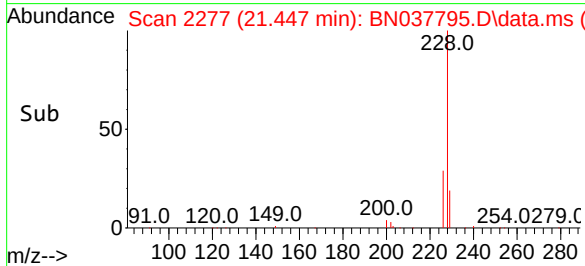
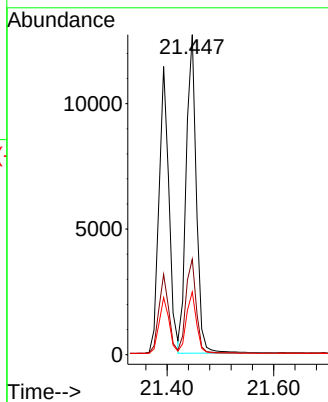
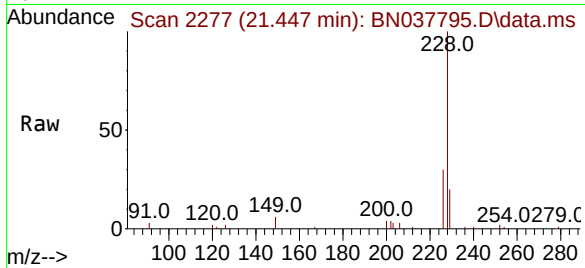




#33
Chrysene
Concen: 0.401 ng
RT: 21.447 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

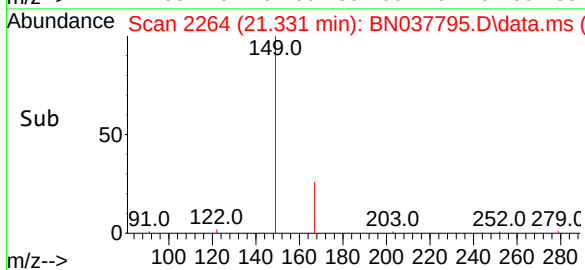
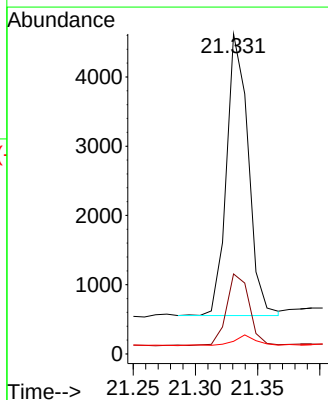
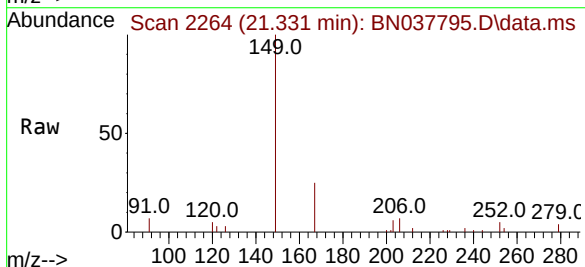
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

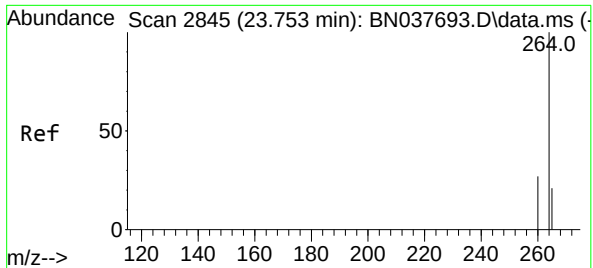
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.5	35.3
229	19.6	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.428 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.7	20.8	31.2
279	4.1	3.3	4.9

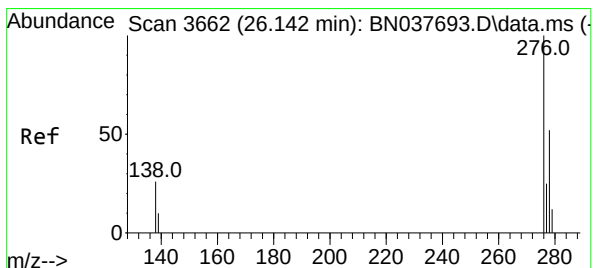
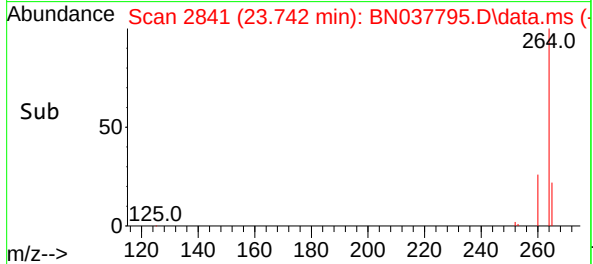
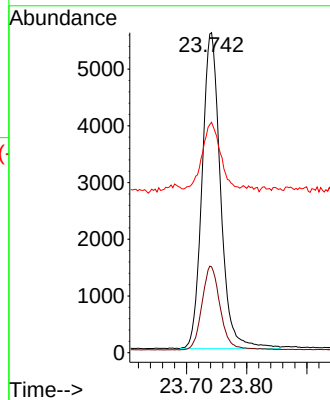
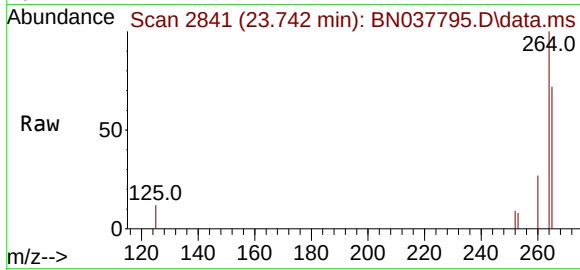




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.742 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

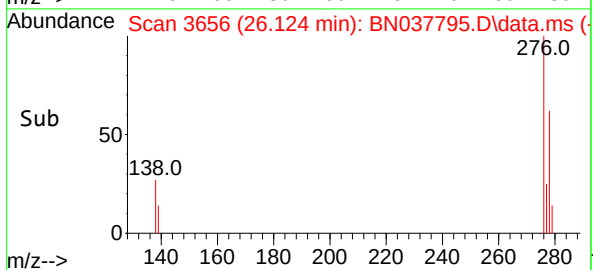
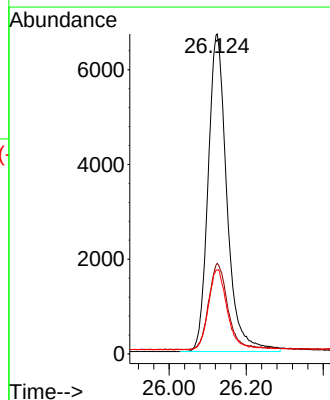
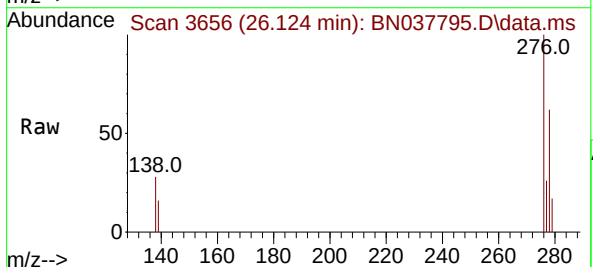
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

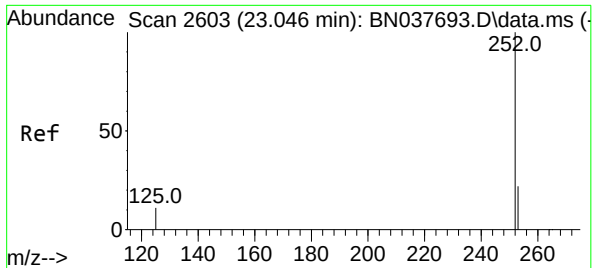
Tgt Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.8	32.8
265	72.0	39.4	59.2



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.457 ng
RT: 26.124 min Scan# 3656
Delta R.T. -0.018 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.5	21.9	32.9
277	24.7	20.1	30.1





#37

Benzo(b)fluoranthene

Concen: 0.380 ng

RT: 23.037 min Scan# 2600

Delta R.T. -0.009 min

Lab File: BN037795.D

Acq: 19 Sep 2025 02:47

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

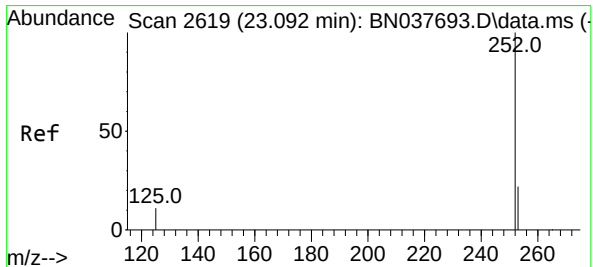
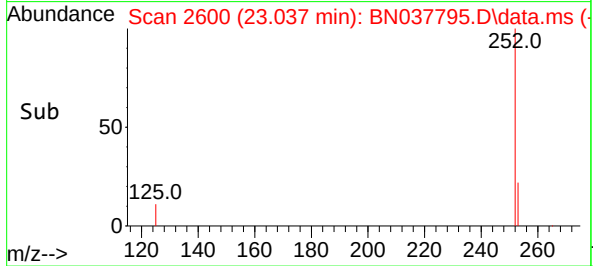
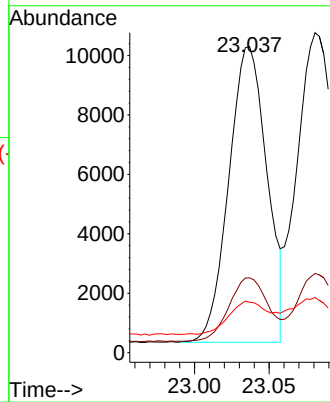
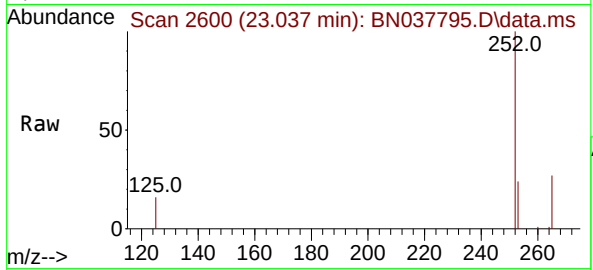
Tgt Ion:252 Resp: 17698

Ion Ratio Lower Upper

252 100

253 24.5 19.4 29.2

125 16.5 11.2 16.8



#38

Benzo(k)fluoranthene

Concen: 0.399 ng

RT: 23.081 min Scan# 2615

Delta R.T. -0.012 min

Lab File: BN037795.D

Acq: 19 Sep 2025 02:47

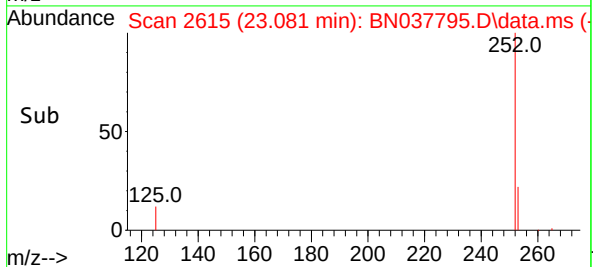
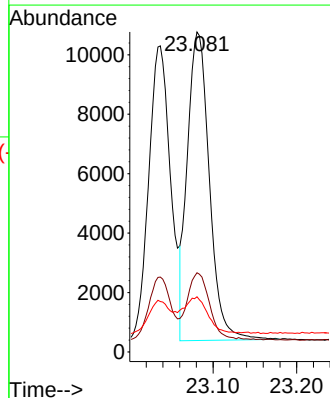
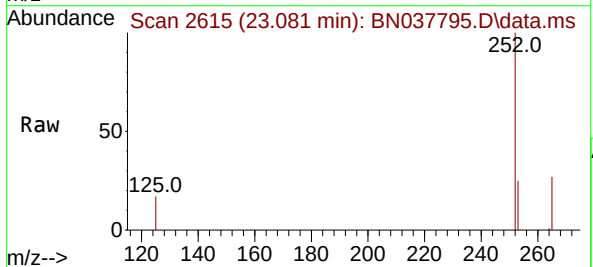
Tgt Ion:252 Resp: 18956

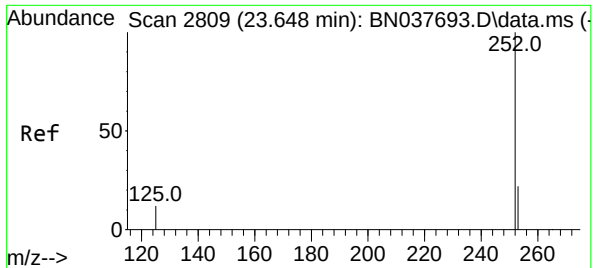
Ion Ratio Lower Upper

252 100

253 24.7 19.4 29.0

125 17.3 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.388 ng

RT: 23.636 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037795.D

Acq: 19 Sep 2025 02:47

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

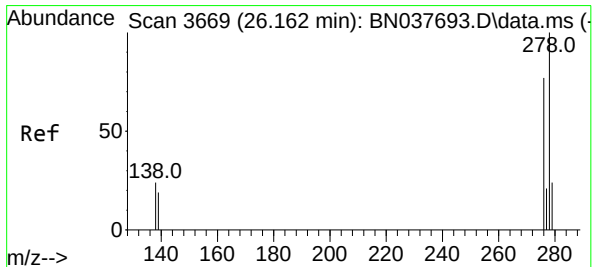
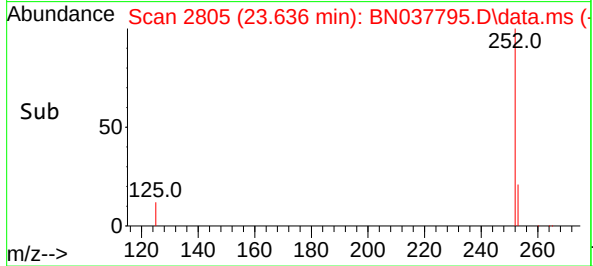
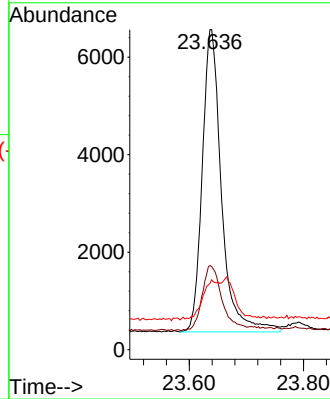
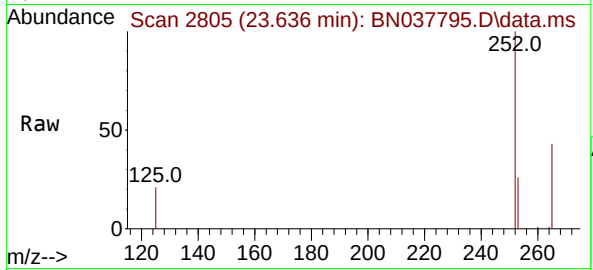
Tgt Ion:252 Resp: 14490

Ion Ratio Lower Upper

252 100

253 26.3 20.8 31.2

125 20.7 13.9 20.9



#40

Dibenzo(a,h)anthracene

Concen: 0.448 ng

RT: 26.139 min Scan# 3661

Delta R.T. -0.023 min

Lab File: BN037795.D

Acq: 19 Sep 2025 02:47

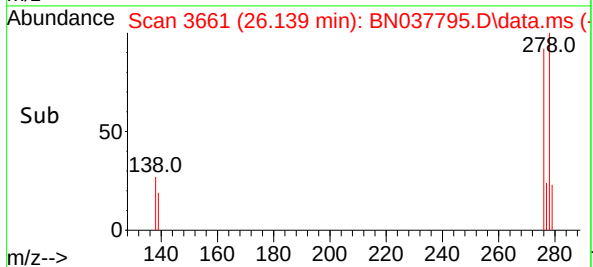
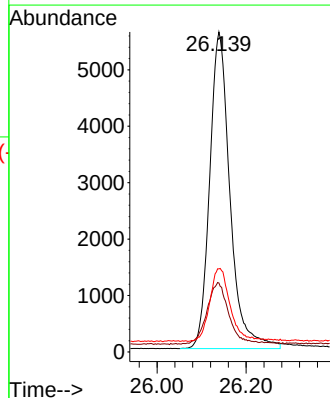
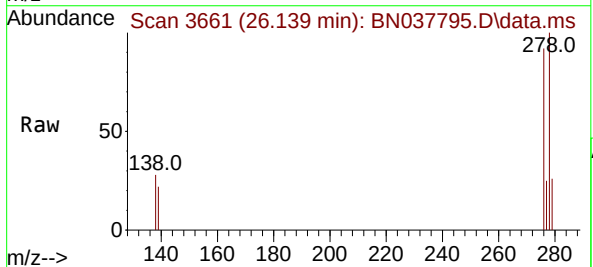
Tgt Ion:278 Resp: 17796

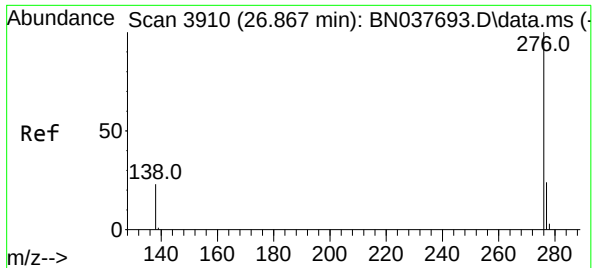
Ion Ratio Lower Upper

278 100

139 21.5 17.8 26.6

279 26.0 22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 0.412 ng

RT: 26.849 min Scan# 3904

Delta R.T. -0.018 min

Lab File: BN037795.D

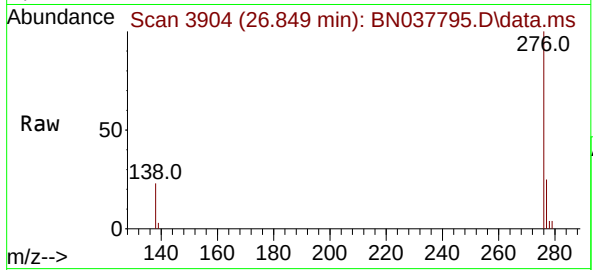
Acq: 19 Sep 2025 02:47

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



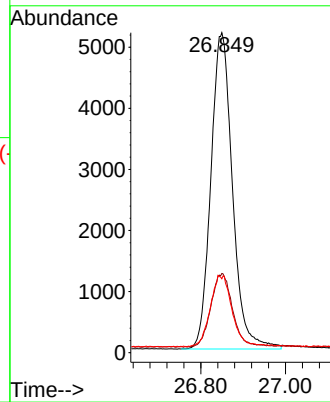
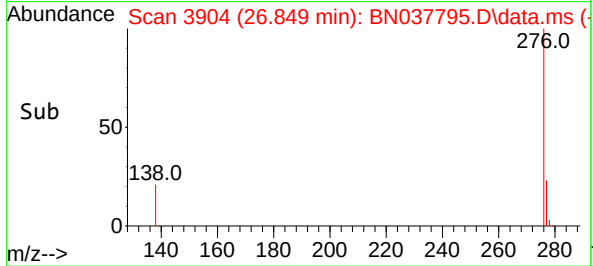
Tgt Ion:276 Resp: 18357

Ion Ratio Lower Upper

276 100

277 24.8 20.6 31.0

138 23.1 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
 Data File : BN037795.D
 Acq On : 19 Sep 2025 02:47
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 19 04:13:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	155#	0.00
2	1,4-Dioxane	0.417	0.391	6.2	143	0.00
3	n-Nitrosodimethylamine	0.544	0.497	8.6	136	0.00
4 S	2-Fluorophenol	0.918	0.830	9.6	144	0.00
5 S	Phenol-d6	1.191	1.152	3.3	154#	0.00
6	bis(2-Chloroethyl)ether	1.064	1.072	-0.8	155#	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	146	-0.01
8 S	Nitrobenzene-d5	0.293	0.308	-5.1	158#	-0.01
9	Naphthalene	1.093	1.065	2.6	145	-0.01
10	Hexachlorobutadiene	0.198	0.196	1.0	145	-0.01
11 SURR	2-Methylnaphthalene-d10	0.530	0.490	7.5	144	-0.02
12	2-Methylnaphthalene	0.676	0.647	4.3	144	-0.01
13 I	Acenaphthene-d10	1.000	1.000	0.0	139	-0.01
14 S	2,4,6-Tribromophenol	0.104	0.120	-15.4	165#	-0.01
15 S	2-Fluorobiphenyl	1.673	1.696	-1.4	143	-0.01
16	Acenaphthylene	1.834	1.738	5.2	135	0.00
17	Acenaphthene	1.240	1.205	2.8	138	-0.01
18	Fluorene	1.502	1.387	7.7	134	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	128	0.00
20	4,6-Dinitro-2-methylphenol	0.037	0.030	18.9	116	-0.01
21	4-Bromophenyl-phenylether	0.261	0.259	0.8	132	-0.01
22	Hexachlorobenzene	0.300	0.326	-8.7	142	-0.01
23	Atrazine	0.166	0.153	7.8	129	-0.01
24	Pentachlorophenol	0.087	0.098	-12.6	169#	0.00
25	Phenanthrene	1.259	1.218	3.3	127	-0.01
26	Anthracene	1.116	1.042	6.6	124	-0.01
27 SURR	Fluoranthene-d10	1.004	0.858	14.5	117	0.00
28	Fluoranthene	1.381	1.219	11.7	119	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	119	0.00
30	Pyrene	1.566	1.562	0.3	120	0.00
31 S	Terphenyl-d14	0.812	0.771	5.0	115	0.00
32	Benzo(a)anthracene	1.395	1.328	4.8	118	0.00
33	Chrysene	1.496	1.501	-0.3	120	0.00
34	Bis(2-ethylhexyl)phthalate	0.414	0.443	-7.0	141	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	132	-0.01
36	Indeno(1,2,3-cd)pyrene	1.681	1.919	-14.2	164#	-0.02
37	Benzo(b)fluoranthene	1.575	1.495	5.1	127	0.00
38	Benzo(k)fluoranthene	1.606	1.601	0.3	139	-0.01
39 C	Benzo(a)pyrene	1.261	1.224	2.9	135	-0.01
40	Dibenzo(a,h)anthracene	1.342	1.503	-12.0	164#	-0.02
41	Benzo(g,h,i)perylene	1.506	1.550	-2.9	141	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
 Data File : BN037795.D
 Acq On : 19 Sep 2025 02:47
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 19 04:13:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	155	0.00
2	1,4-Dioxane	0.400	0.376	6.0	143	0.00
3	n-Nitrosodimethylamine	0.400	0.365	8.8	136	0.00
4 S	2-Fluorophenol	0.400	0.362	9.5	144	0.00
5 S	Phenol-d6	0.400	0.387	3.3	154	0.00
6	bis(2-Chloroethyl)ether	0.400	0.403	-0.8	155	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	146	-0.01
8 S	Nitrobenzene-d5	0.400	0.421	-5.2	158	-0.01
9	Naphthalene	0.400	0.390	2.5	145	-0.01
10	Hexachlorobutadiene	0.400	0.396	1.0	145	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.370	7.5	144	-0.02
12	2-Methylnaphthalene	0.400	0.383	4.3	144	-0.01
13 I	Acenaphthene-d10	0.400	0.400	0.0	139	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.460	-15.0	165	-0.01
15 S	2-Fluorobiphenyl	0.400	0.406	-1.5	143	-0.01
16	Acenaphthylene	0.400	0.379	5.3	135	0.00
17	Acenaphthene	0.400	0.389	2.8	138	-0.01
18	Fluorene	0.400	0.369	7.8	134	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	128	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.323	19.3	116	-0.01
21	4-Bromophenyl-phenylether	0.400	0.397	0.8	132	-0.01
22	Hexachlorobenzene	0.400	0.435	-8.7	142	-0.01
23	Atrazine	0.400	0.368	8.0	129	-0.01
24	Pentachlorophenol	0.400	0.452	-13.0	169	0.00
25	Phenanthrene	0.400	0.387	3.3	127	-0.01
26	Anthracene	0.400	0.374	6.5	124	-0.01
27 SURR	Fluoranthene-d10	0.400	0.342	14.5	117	0.00
28	Fluoranthene	0.400	0.353	11.8	119	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	119	0.00
30	Pyrene	0.400	0.399	0.3	120	0.00
31 S	Terphenyl-d14	0.400	0.380	5.0	115	0.00
32	Benzo(a)anthracene	0.400	0.381	4.8	118	0.00
33	Chrysene	0.400	0.401	-0.3	120	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.428	-7.0	141	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	132	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.457	-14.2	164	-0.02
37	Benzo(b)fluoranthene	0.400	0.380	5.0	127	0.00
38	Benzo(k)fluoranthene	0.400	0.399	0.3	139	-0.01
39 C	Benzo(a)pyrene	0.400	0.388	3.0	135	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.448	-12.0	164	-0.02
41	Benzo(g,h,i)perylene	0.400	0.412	-3.0	141	-0.02

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>AECO15</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3095</u>
Instrument ID:	<u>BNA_N</u>	Calibration Date/Time:	<u>09/19/2025 13:03</u>
Lab File ID:	<u>BN037811.D</u>	Init. Calib. Date(s):	<u>09/11/2025 09/11/2025</u>
EPA Sample No.:	<u>SSTDCCC0.4EC</u>	Init. Calib. Time(s):	<u>09:56 13:33</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.497		-6.2	50.0
Fluoranthene-d10	1.004	0.957		-4.7	50.0
2-Fluorophenol	0.918	1.044		13.7	50.0
Phenol-d6	1.191	1.176		-1.3	50.0
Nitrobenzene-d5	0.293	0.292		-0.3	50.0
2-Fluorobiphenyl	1.673	1.615		-3.5	50.0
2,4,6-Tribromophenol	0.104	0.131		26.0	50.0
Terphenyl-d14	0.812	0.765		-5.8	50.0
1,4-Dioxane	0.417	0.424		1.7	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
 Data File : BN037811.D
 Acq On : 19 Sep 2025 13:03
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Sep 19 13:27:51 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

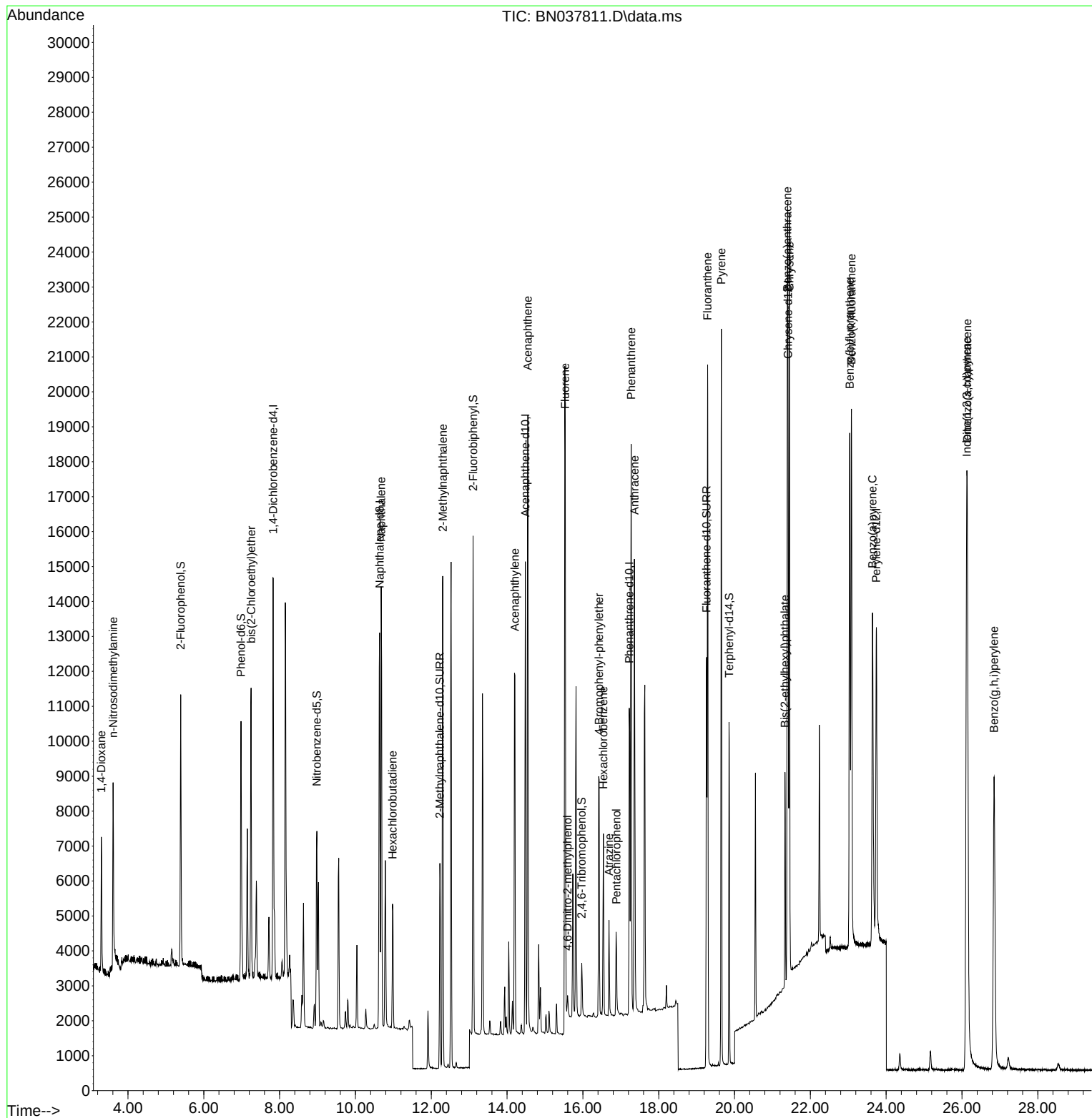
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	5811	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	15706	0.400	ng	#-0.01
13) Acenaphthene-d10	14.484	164	7363	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	13521	0.400	ng	-0.01
29) Chrysene-d12	21.411	240	12361	0.400	ng	0.00
35) Perylene-d12	23.741	264	12915	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	6068	0.455	ng	0.00
5) Phenol-d6	6.980	99	6833	0.395	ng	0.00
8) Nitrobenzene-d5	8.982	82	4585	0.399	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	7805	0.375	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	963	0.501	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	11890	0.386	ng	-0.01
27) Fluoranthene-d10	19.262	212	12937	0.381	ng	0.00
31) Terphenyl-d14	19.856	244	9455	0.377	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	2462	0.407	ng	95
3) n-Nitrosodimethylamine	3.608	42	3283	0.415	ng	93
6) bis(2-Chloroethyl)ether	7.248	93	6036	0.391	ng	99
9) Naphthalene	10.680	128	16766	0.391	ng	100
10) Hexachlorobutadiene	10.979	225	3007	0.387	ng	# 100
12) 2-Methylnaphthalene	12.303	142	10188	0.384	ng	99
16) Acenaphthylene	14.206	152	12502	0.370	ng	99
17) Acenaphthene	14.548	154	8660	0.379	ng	98
18) Fluorene	15.535	166	10559	0.382	ng	99
20) 4,6-Dinitro-2-methylph...	15.597	198	416	0.332	ng	# 84
21) 4-Bromophenyl-phenylether	16.429	248	3252	0.369	ng	97
22) Hexachlorobenzene	16.540	284	4063	0.401	ng	99
23) Atrazine	16.689	200	2102	0.375	ng	95
24) Pentachlorophenol	16.888	266	1388	0.471	ng	93
25) Phenanthrene	17.273	178	16630	0.391	ng	100
26) Anthracene	17.359	178	14242	0.378	ng	100
28) Fluoranthene	19.290	202	18266	0.391	ng	100
30) Pyrene	19.652	202	18234	0.377	ng	100
32) Benzo(a)anthracene	21.393	228	16344	0.379	ng	100
33) Chrysene	21.447	228	18321	0.396	ng	99
34) Bis(2-ethylhexyl)phtha...	21.331	149	5701	0.446	ng	99
36) Indeno(1,2,3-cd)pyrene	26.124	276	24237	0.447	ng	100
37) Benzo(b)fluoranthene	23.037	252	19797	0.389	ng	98
38) Benzo(k)fluoranthene	23.084	252	20862	0.402	ng	99
39) Benzo(a)pyrene	23.639	252	15816	0.388	ng	97
40) Dibenzo(a,h)anthracene	26.139	278	18950	0.437	ng	97
41) Benzo(g,h,i)perylene	26.846	276	18988	0.391	ng	97

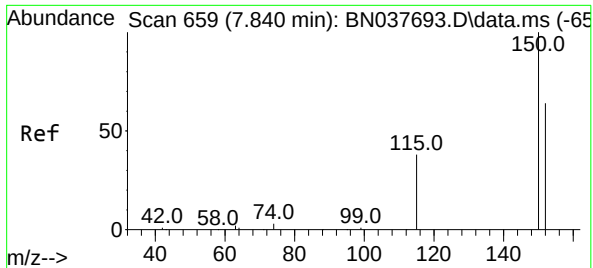
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
 Data File : BN037811.D
 Acq On : 19 Sep 2025 13:03
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Sep 19 13:27:51 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

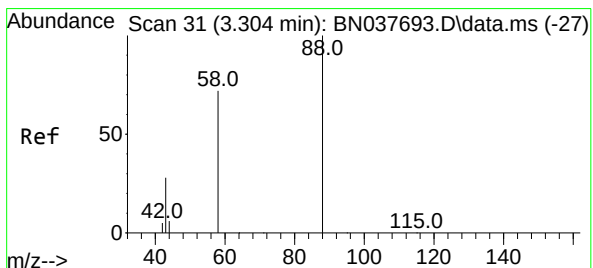
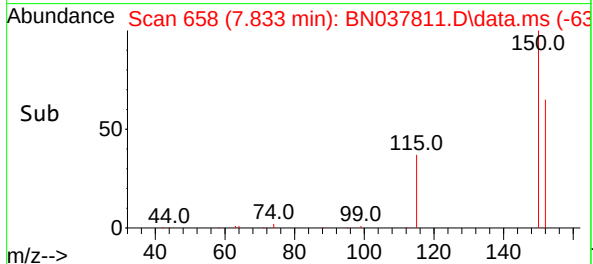
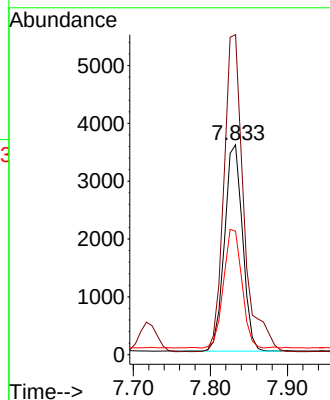
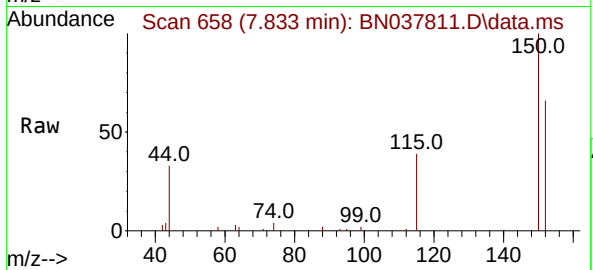




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

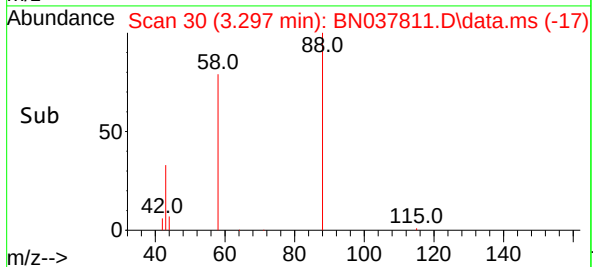
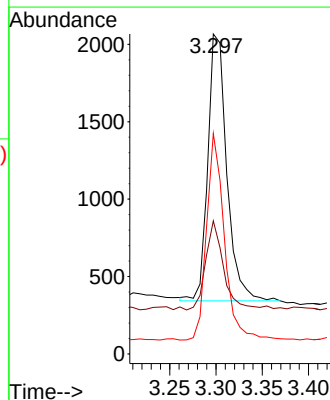
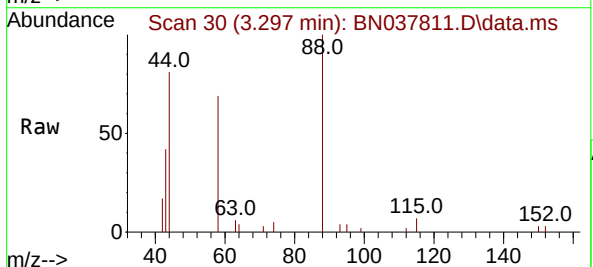
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

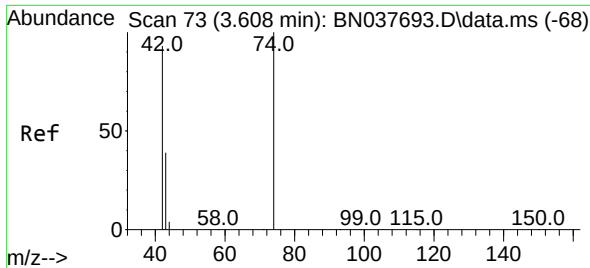
Tgt Ion:152 Resp: 5811
Ion Ratio Lower Upper
152 100
150 152.5 124.5 186.7
115 58.8 49.2 73.8



#2
1,4-Dioxane
Concen: 0.407 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion: 88 Resp: 2462
Ion Ratio Lower Upper
88 100
43 32.0 26.8 40.2
58 72.4 61.9 92.9

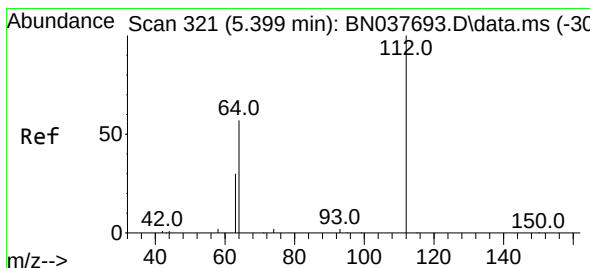
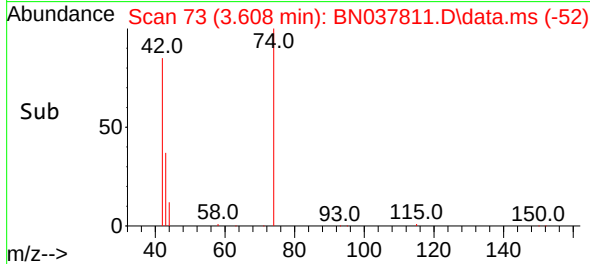
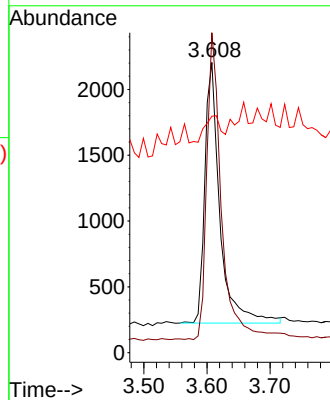
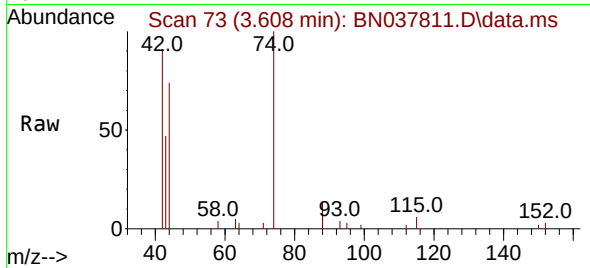




#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.608 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

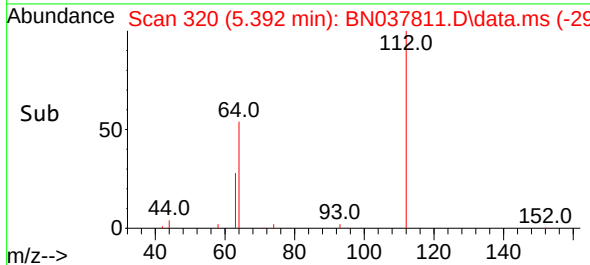
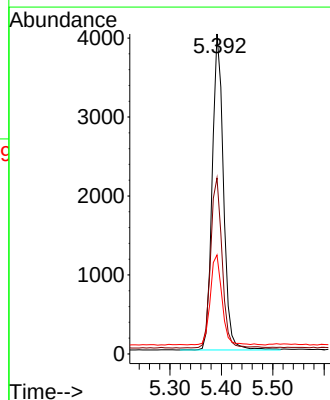
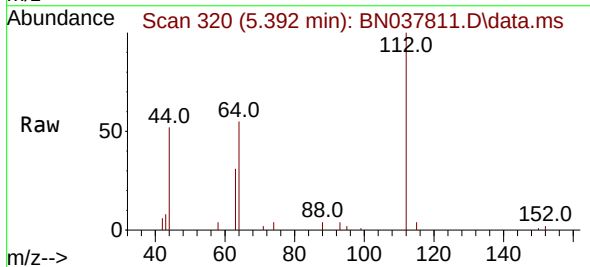
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

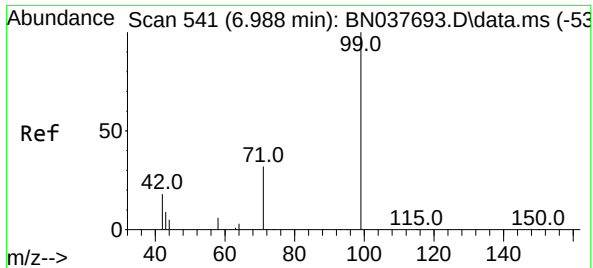
Tgt Ion: 42 Resp: 3283
Ion Ratio Lower Upper
42 100
74 115.6 86.0 129.0
44 10.4 8.4 12.6



#4
2-Fluorophenol
Concen: 0.455 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion: 112 Resp: 6068
Ion Ratio Lower Upper
112 100
64 54.8 44.9 67.3
63 29.3 24.7 37.1

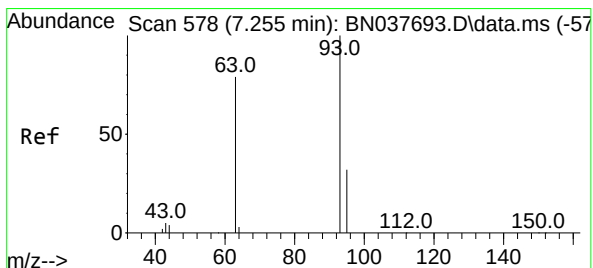
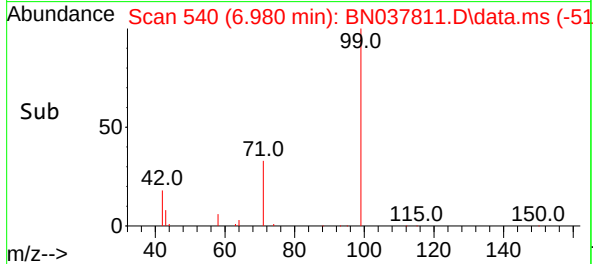
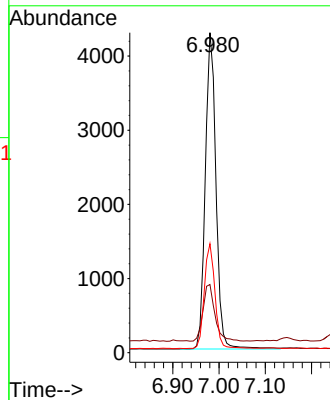
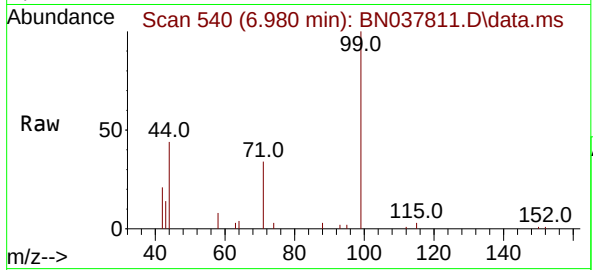




#5
Phenol-d6
Concen: 0.395 ng
RT: 6.980 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

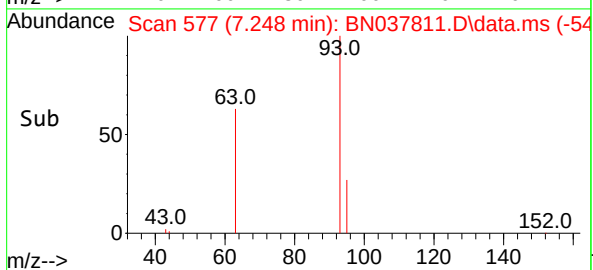
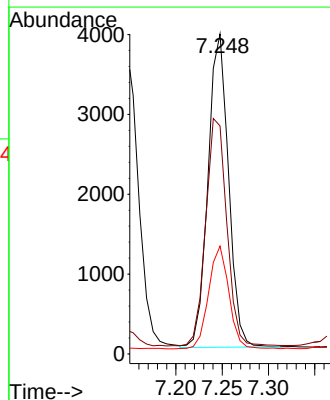
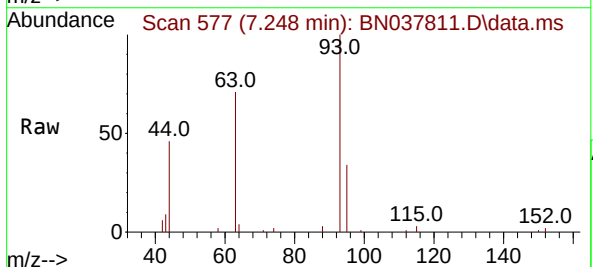
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

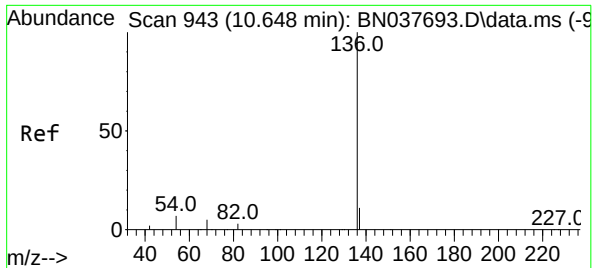
Tgt Ion: 99 Resp: 6833
Ion Ratio Lower Upper
99 100
42 20.0 16.6 24.8
71 33.2 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.391 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion: 93 Resp: 6036
Ion Ratio Lower Upper
93 100
63 75.0 60.6 90.8
95 32.6 26.0 39.0

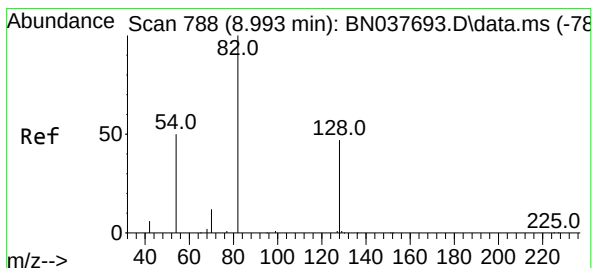
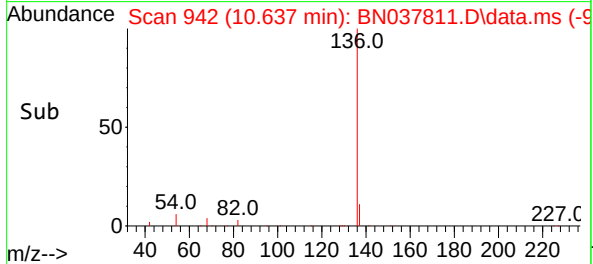
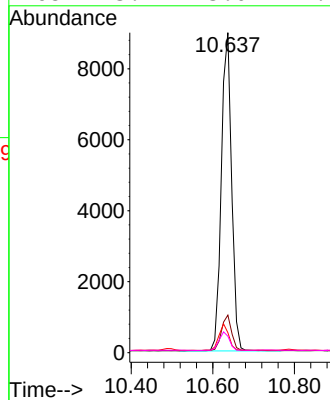
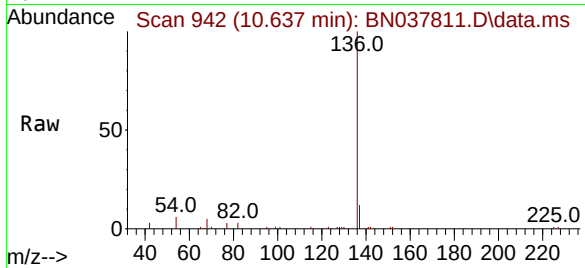




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

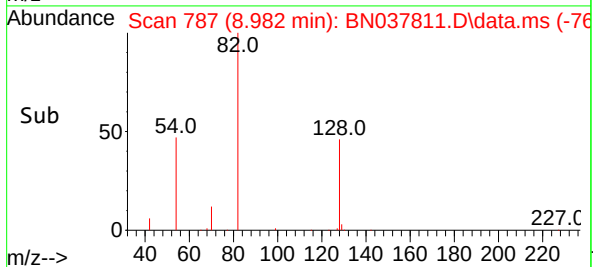
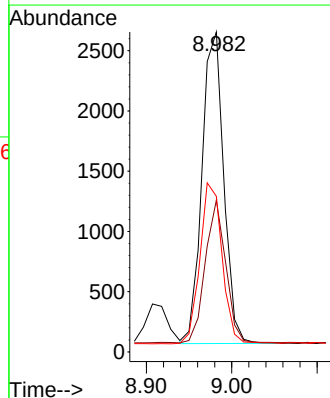
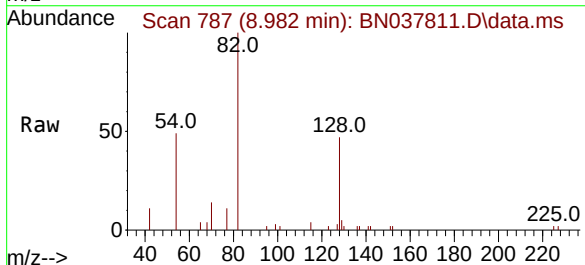
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

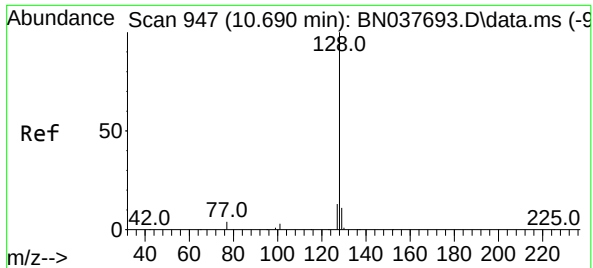
Tgt Ion:	136	Resp:	15706
Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.1	13.7
54	6.3	6.3	9.5#
68	5.1	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.399 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:	82	Resp:	4585
Ion	Ratio	Lower	Upper
82	100		
128	47.4	38.3	57.5
54	48.6	41.4	62.2

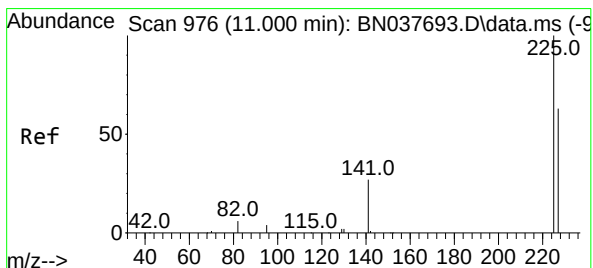
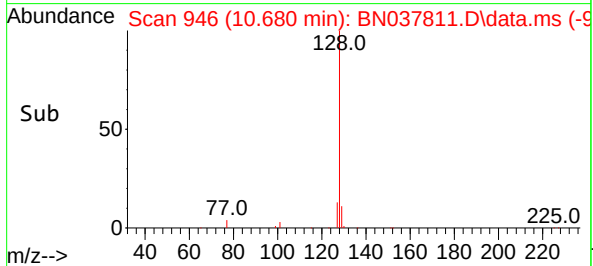
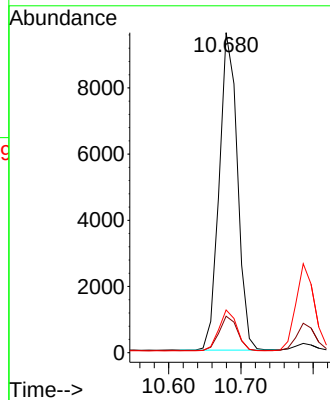
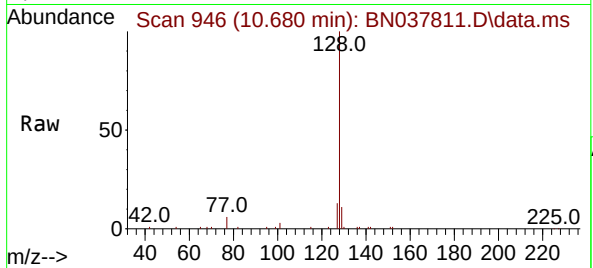




#9
Naphthalene
Concen: 0.391 ng
RT: 10.680 min Scan# 946
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

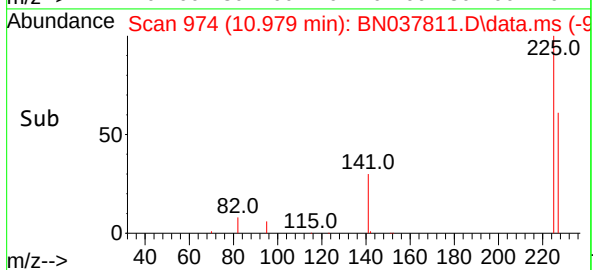
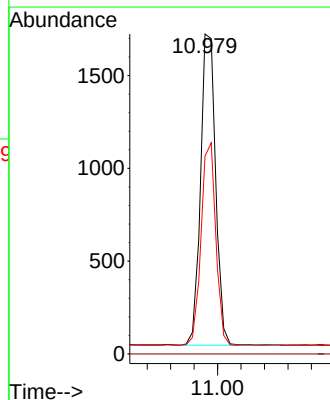
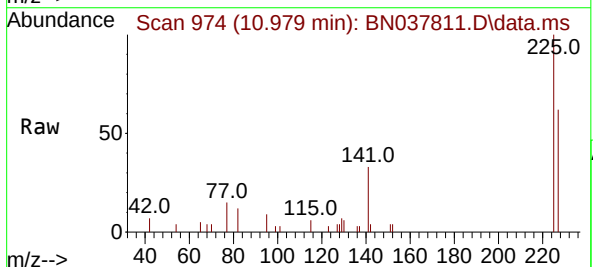
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

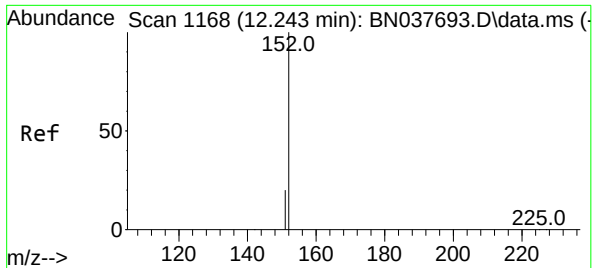
Tgt Ion:128 Resp: 16766
Ion Ratio Lower Upper
128 100
129 11.4 9.1 13.7
127 13.4 10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.387 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.021 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:225 Resp: 3007
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 50.9 76.3

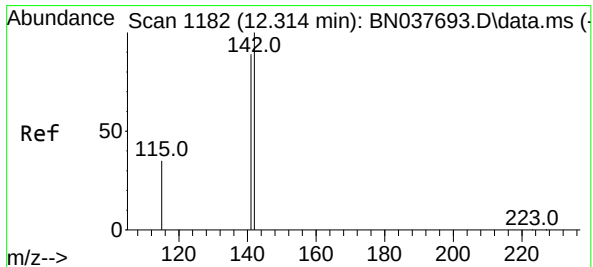
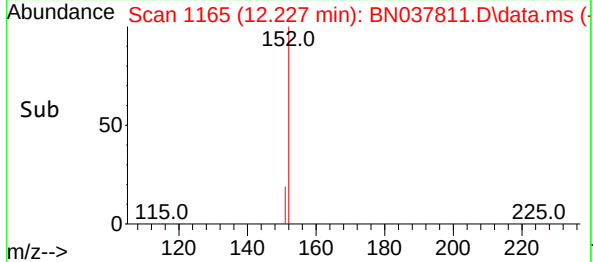
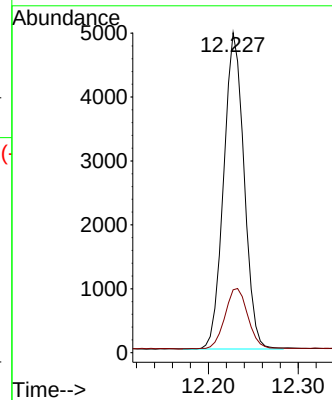
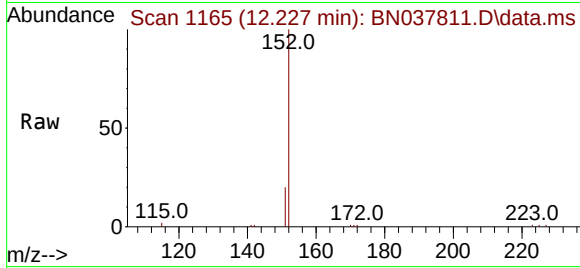




#11
2-Methylnaphthalene-d10
Concen: 0.375 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

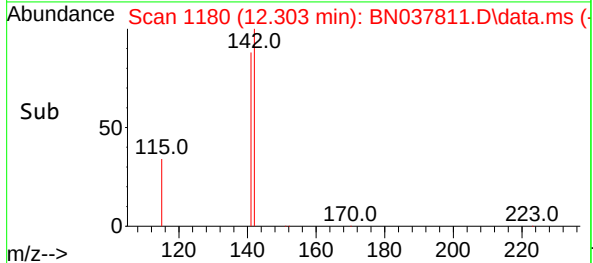
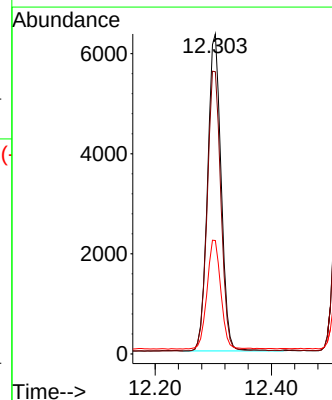
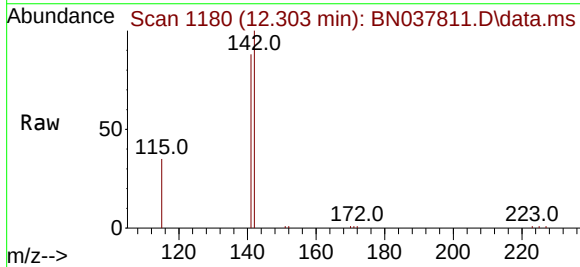
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

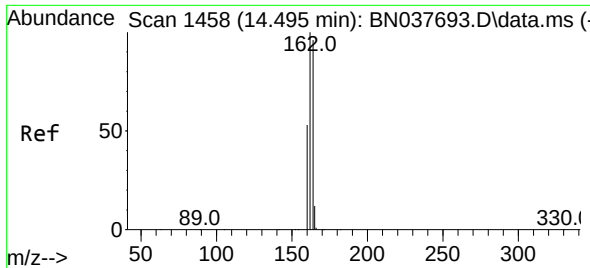
Tgt Ion:152 Resp: 7805
Ion Ratio Lower Upper
152 100
151 21.7 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:142 Resp: 10188
Ion Ratio Lower Upper
142 100
141 88.2 71.6 107.4
115 35.5 28.6 43.0

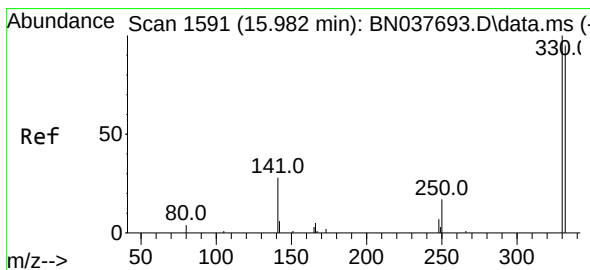
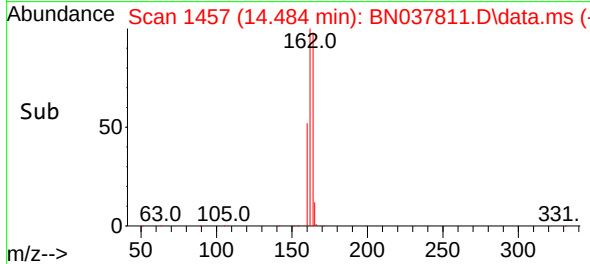
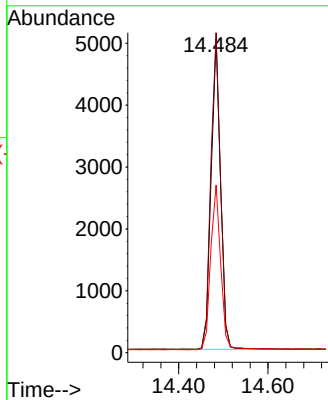
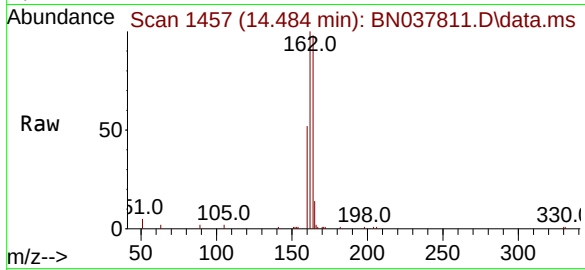




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

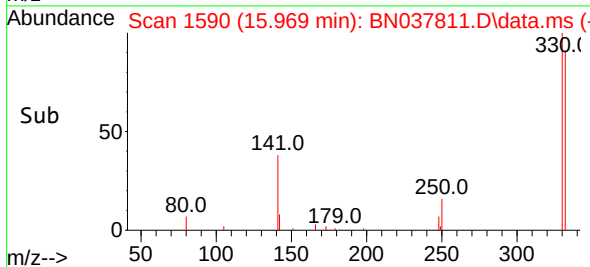
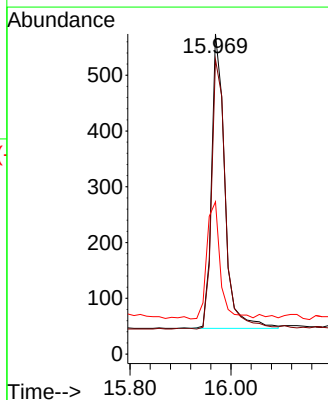
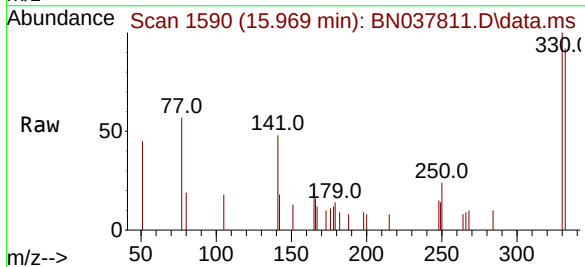
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

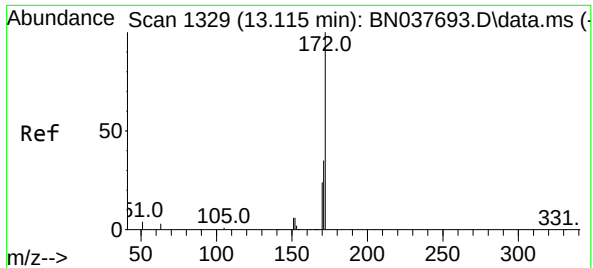
Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.9	83.1	124.7
160	53.4	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.501 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.7	75.3	112.9
141	40.4	35.0	52.4

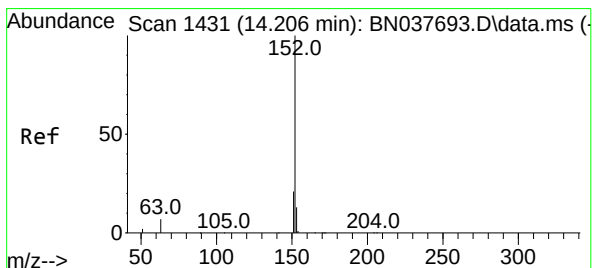
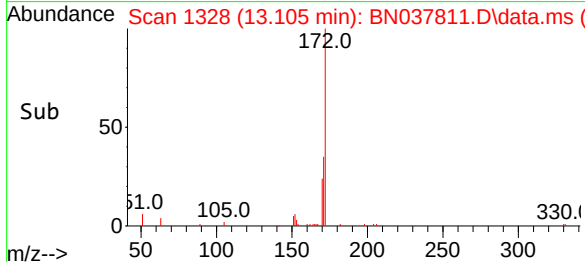
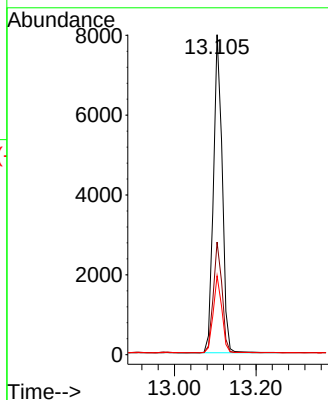
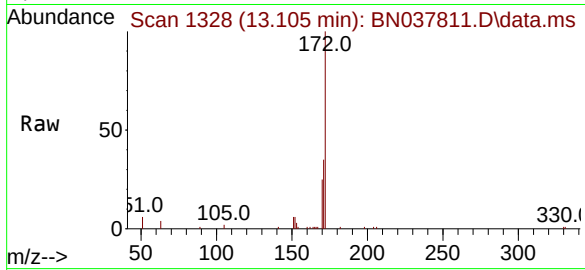




#15
2-Fluorobiphenyl
Concen: 0.386 ng
RT: 13.105 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

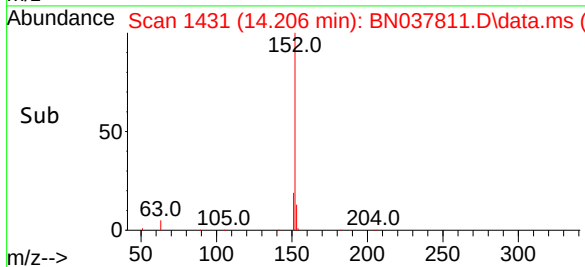
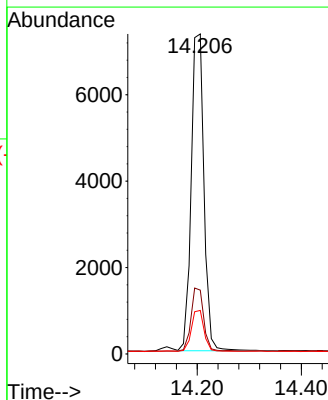
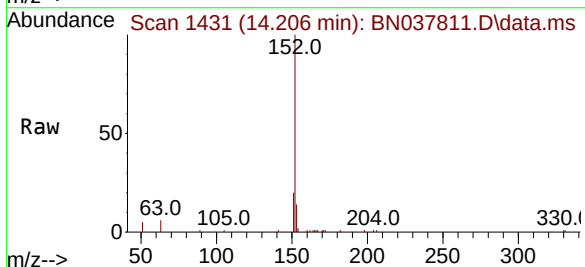
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

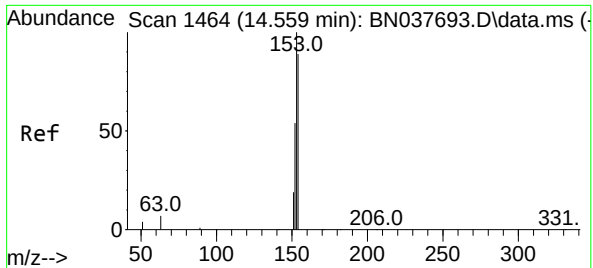
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.6	43.0
170	24.6	19.8	29.8



#16
Acenaphthylene
Concen: 0.370 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.3	10.4	15.6

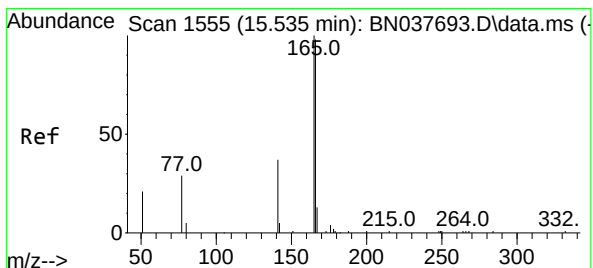
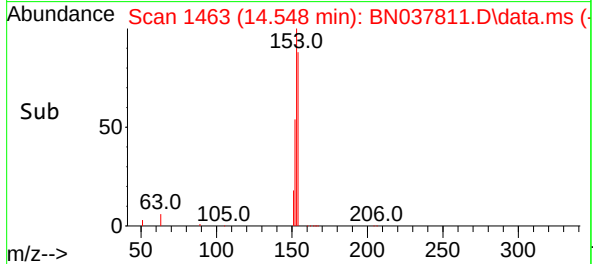
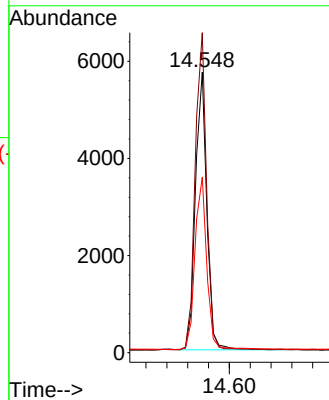
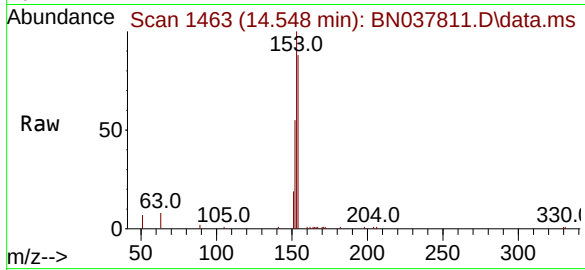




#17
Acenaphthene
Concen: 0.379 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

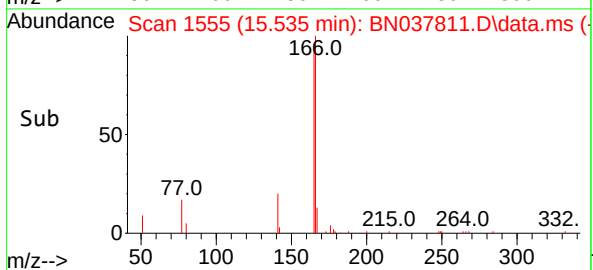
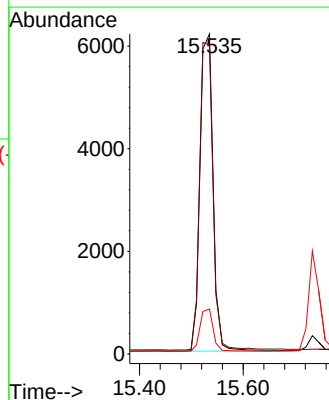
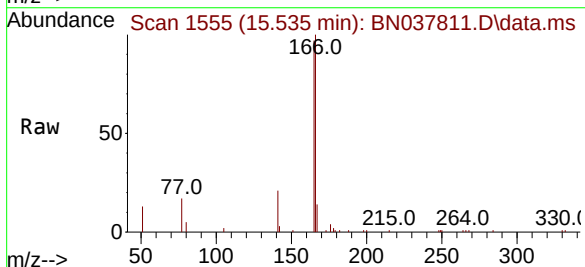
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

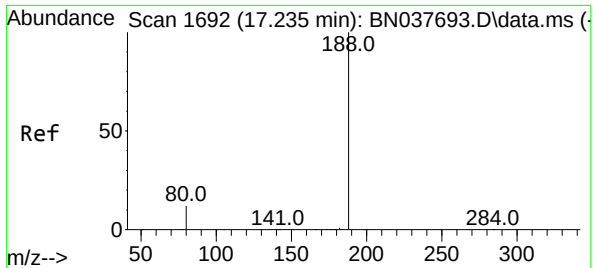
Tgt Ion:154 Resp: 8660
Ion Ratio Lower Upper
154 100
153 114.7 89.8 134.8
152 64.6 50.2 75.2



#18
Fluorene
Concen: 0.382 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:166 Resp: 10559
Ion Ratio Lower Upper
166 100
165 97.9 79.6 119.4
167 13.4 10.6 16.0

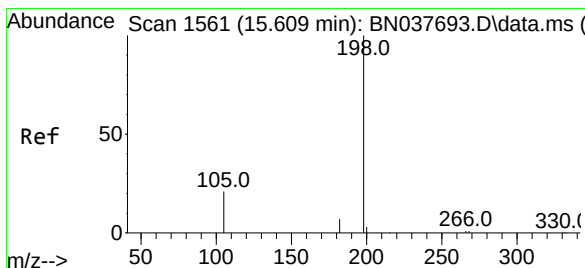
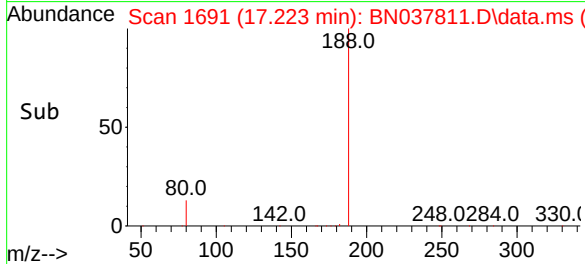
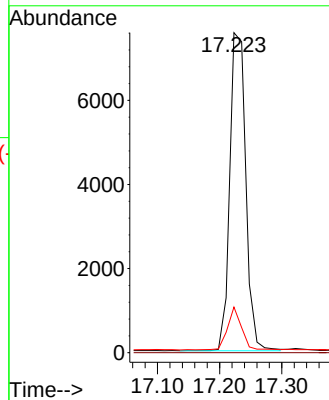
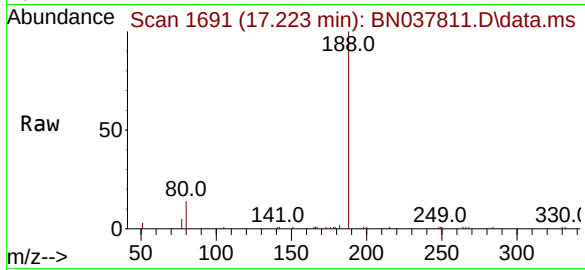




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1692
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

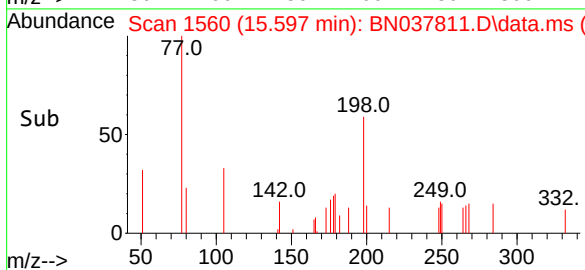
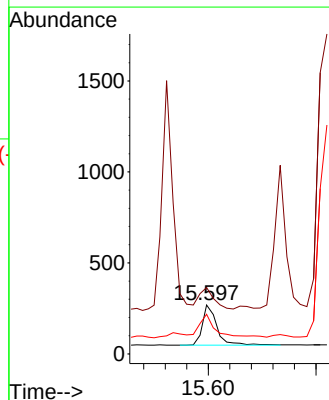
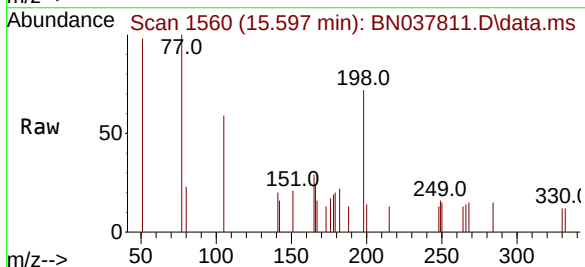
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

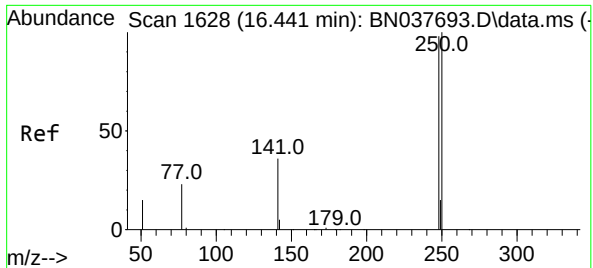
Tgt Ion:188 Resp: 13521
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 14.3 10.6 15.8



#20
4,6-Dinitro-2-methylphenol
Concen: 0.332 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.012 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:198 Resp: 416
Ion Ratio Lower Upper
198 100
51 135.7 95.1 142.7
105 81.0 53.8 80.6#

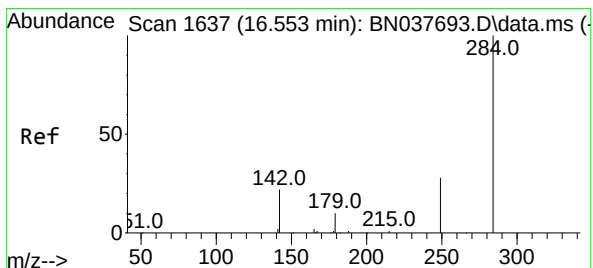
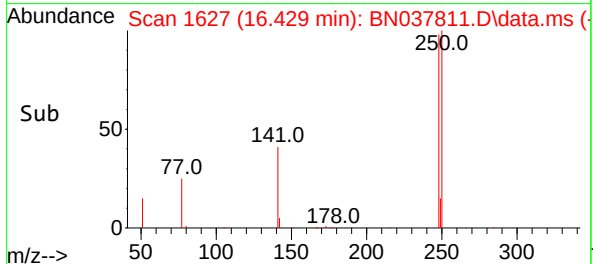
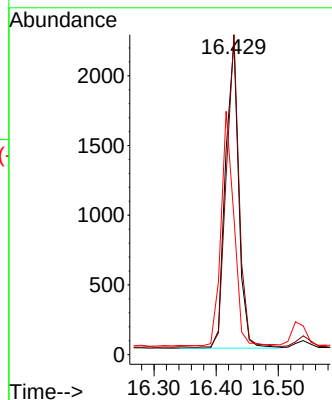
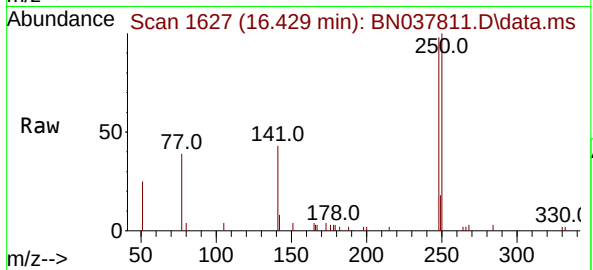




#21
4-Bromophenyl-phenylether
Concen: 0.369 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

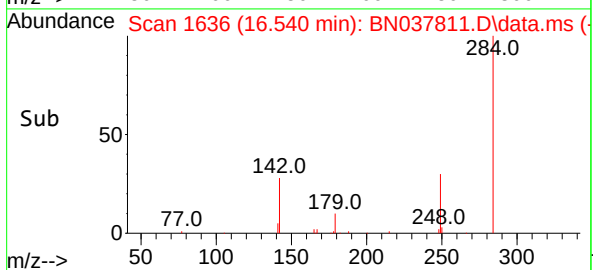
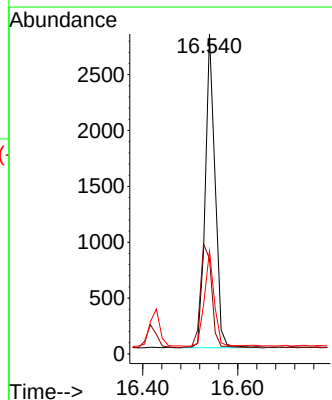
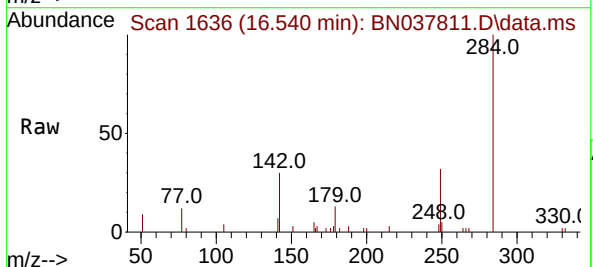
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

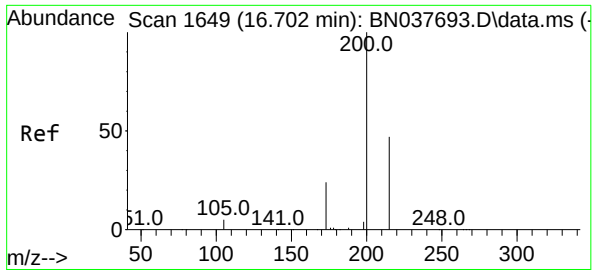
Tgt Ion	Ratio	Lower	Upper
248	100		
250	102.2	81.5	122.3
141	43.8	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.401 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.3	30.9	46.3
249	30.0	24.8	37.2

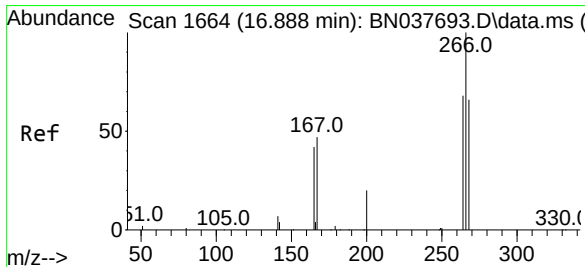
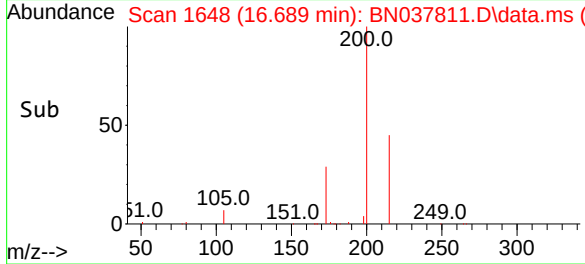
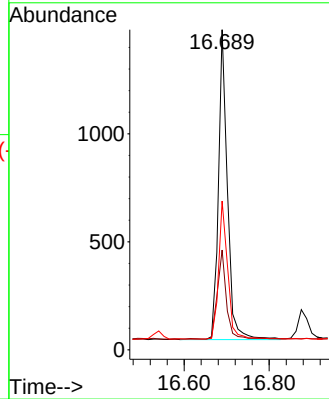
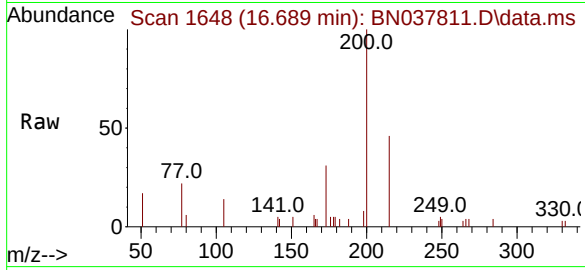




#23
Atrazine
Concen: 0.375 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

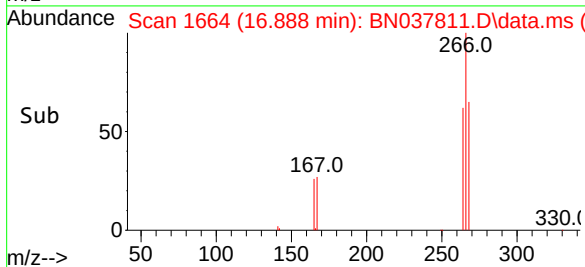
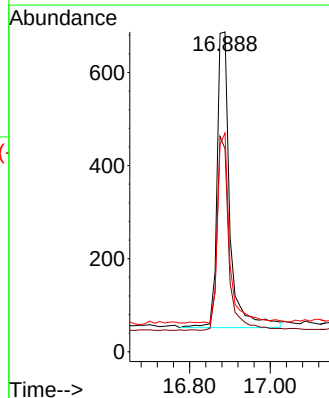
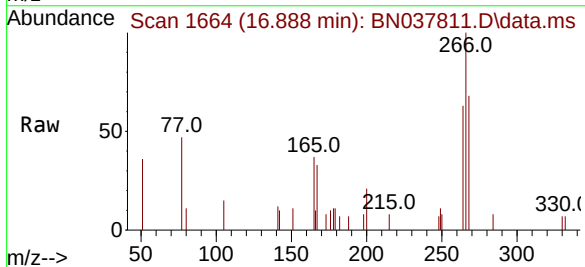
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

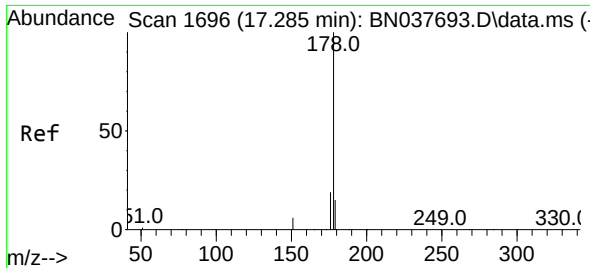
Tgt Ion	Ratio	Lower	Upper
200	100		
173	31.2	21.4	32.2
215	46.5	39.2	58.8



#24
Pentachlorophenol
Concen: 0.471 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion	Ratio	Lower	Upper
266	100		
264	60.5	51.6	77.4
268	59.4	53.2	79.8

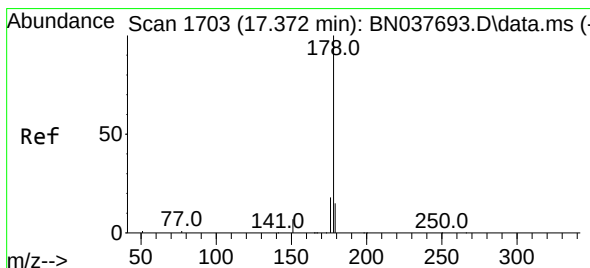
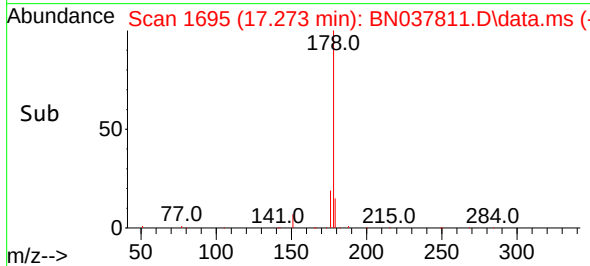
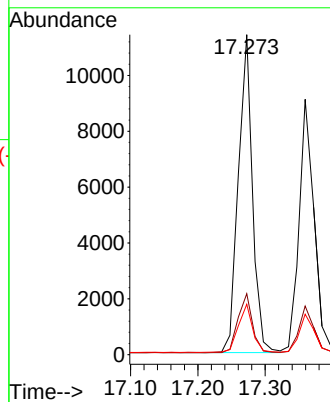
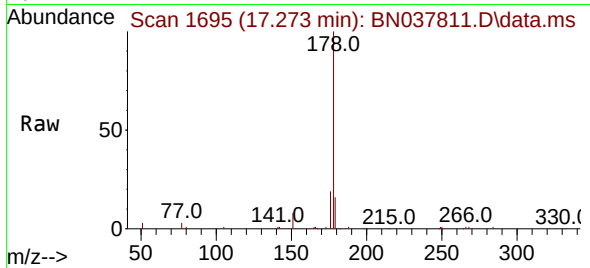




#25
Phenanthrene
Concen: 0.391 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

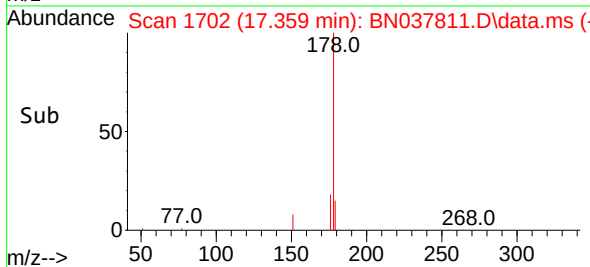
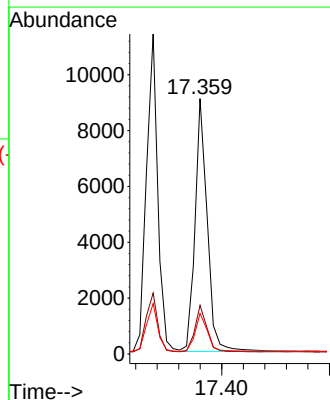
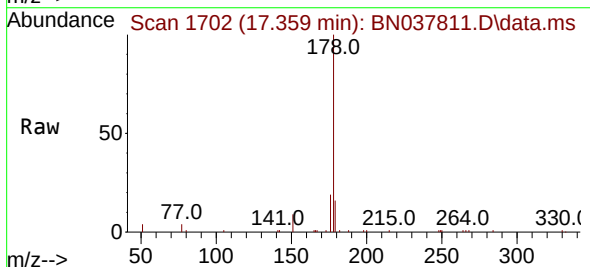
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

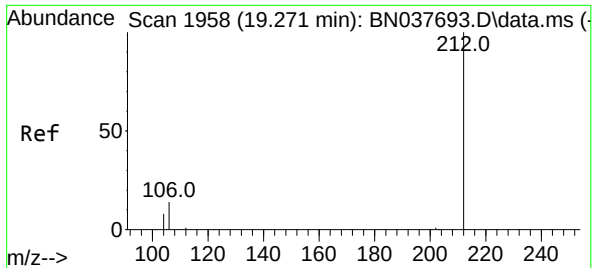
Tgt Ion:178 Resp: 16630
Ion Ratio Lower Upper
178 100
176 18.9 15.3 22.9
179 15.4 12.2 18.2



#26
Anthracene
Concen: 0.378 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:178 Resp: 14242
Ion Ratio Lower Upper
178 100
176 18.2 14.6 22.0
179 15.4 12.2 18.4

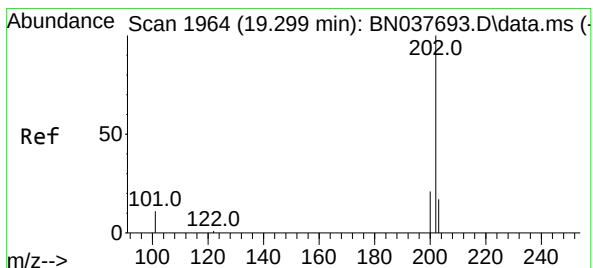
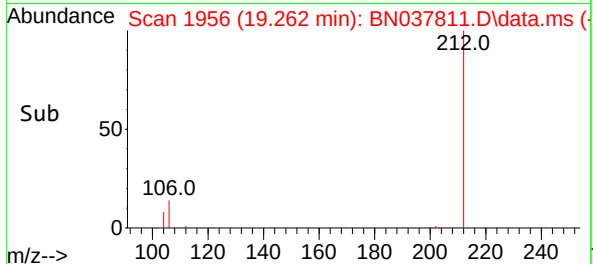
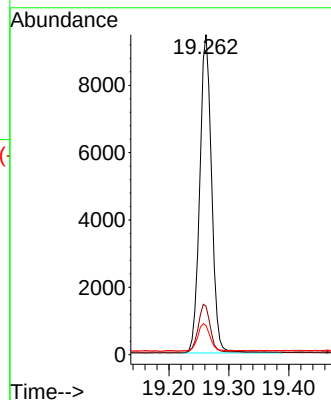
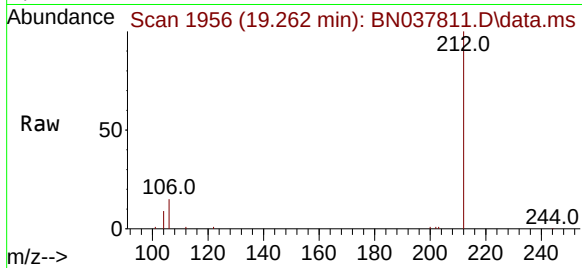




#27
Fluoranthene-d10
Concen: 0.381 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

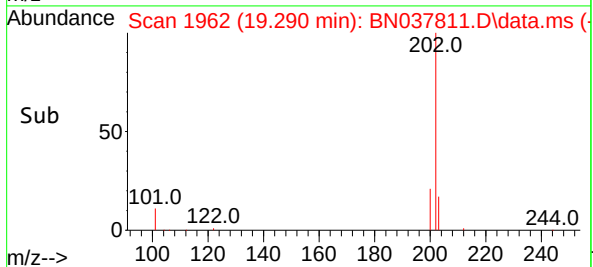
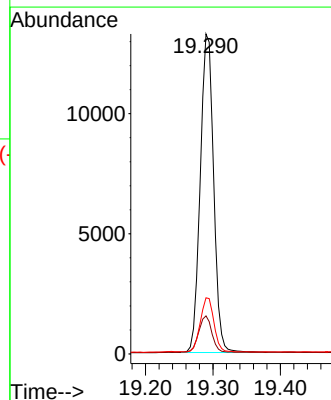
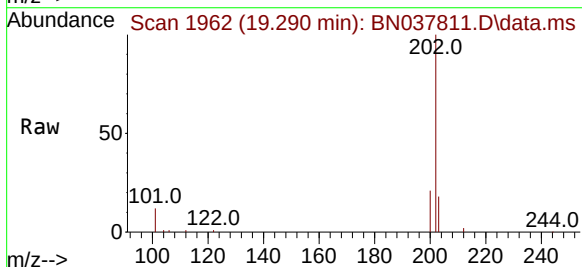
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

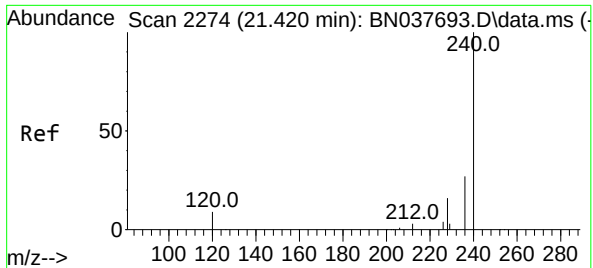
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.2	12.2	18.2
104	8.8	6.9	10.3



#28
Fluoranthene
Concen: 0.391 ng
RT: 19.290 min Scan# 1962
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.4	9.3	13.9
203	17.2	13.7	20.5

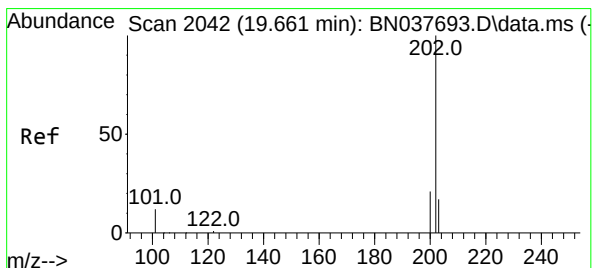
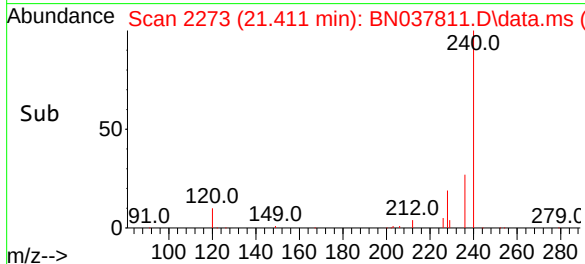
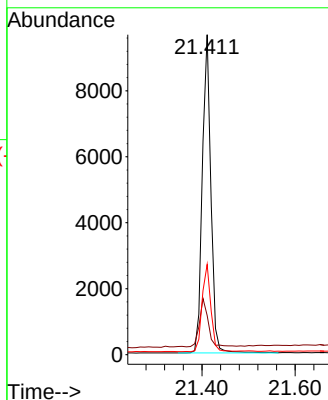
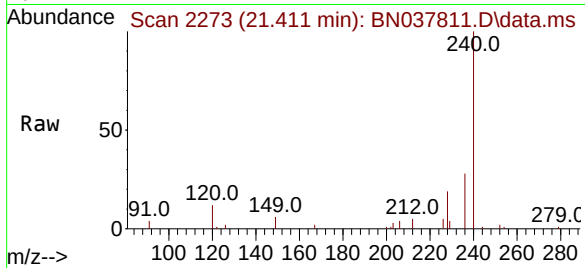




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

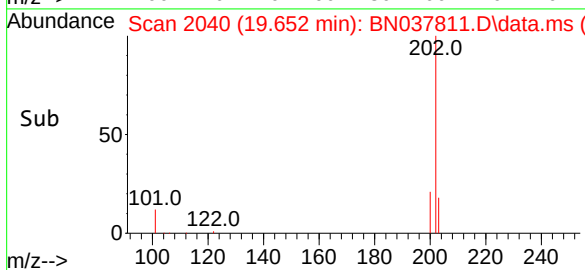
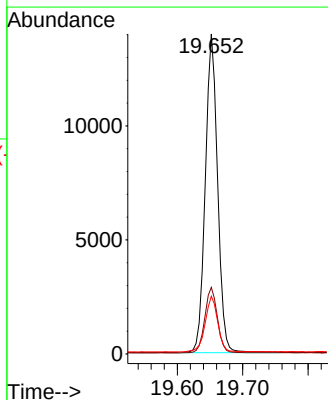
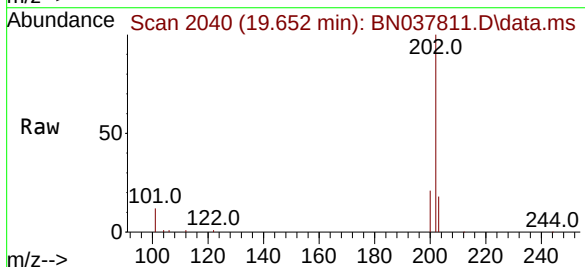
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

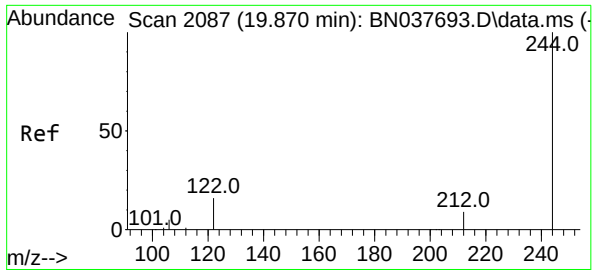
Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.3	9.2	13.8
236	28.2	22.6	33.8



#30
Pyrene
Concen: 0.377 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.8	25.2
203	17.8	14.3	21.5

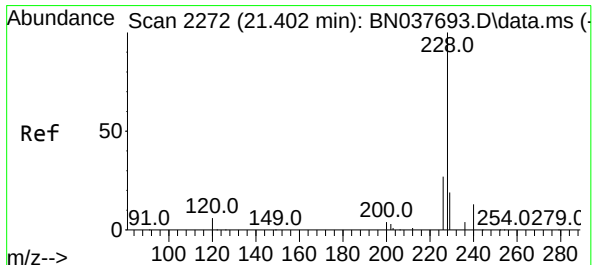
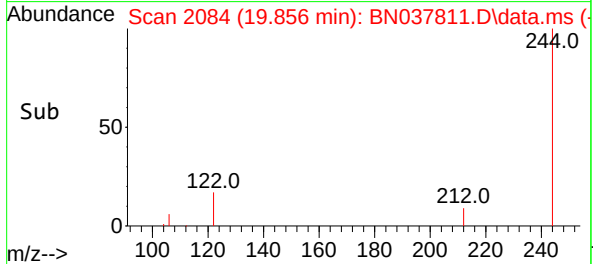
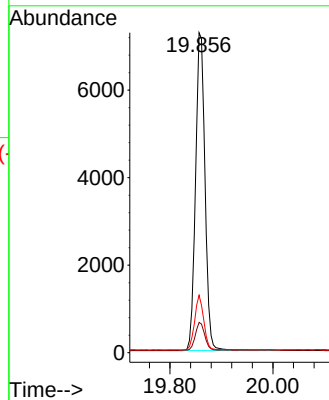
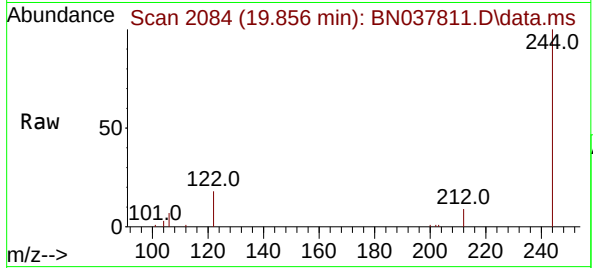




#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

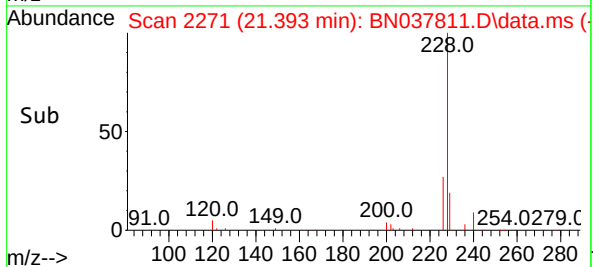
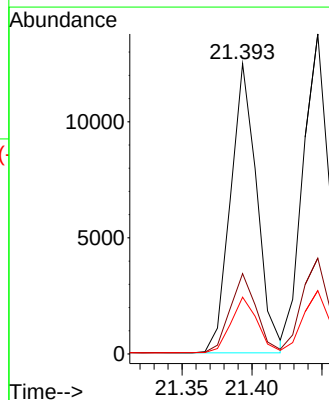
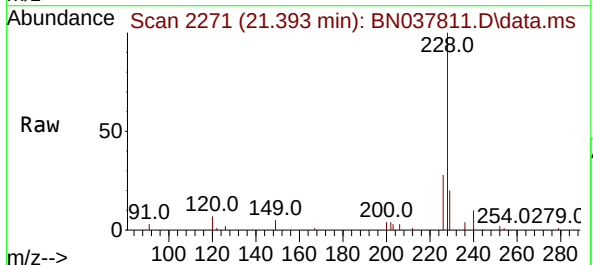
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

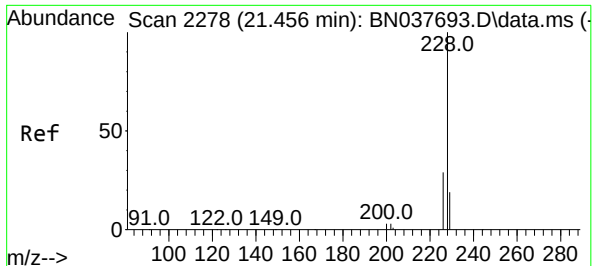
Tgt Ion:244 Resp: 9455
Ion Ratio Lower Upper
244 100
212 9.5 7.5 11.3
122 18.0 13.2 19.8



#32
Benzo(a)anthracene
Concen: 0.379 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:228 Resp: 16344
Ion Ratio Lower Upper
228 100
226 27.7 22.2 33.2
229 19.6 15.8 23.6

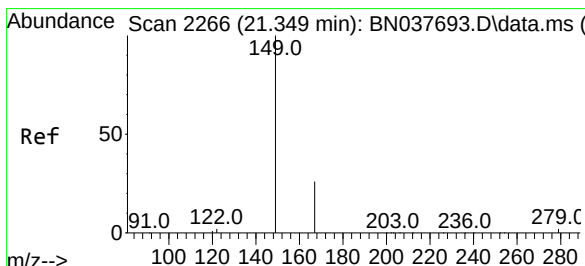
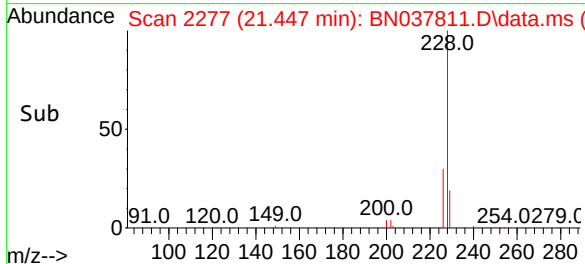
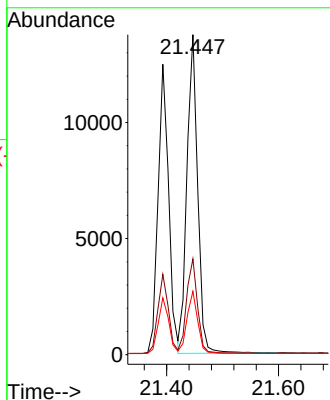
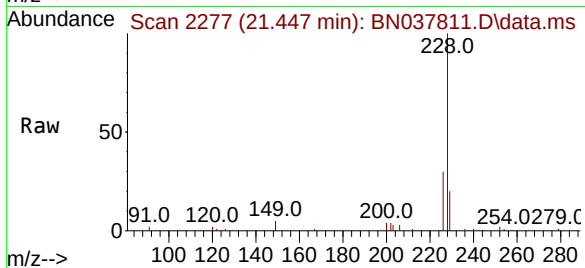




#33
Chrysene
Concen: 0.396 ng
RT: 21.447 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

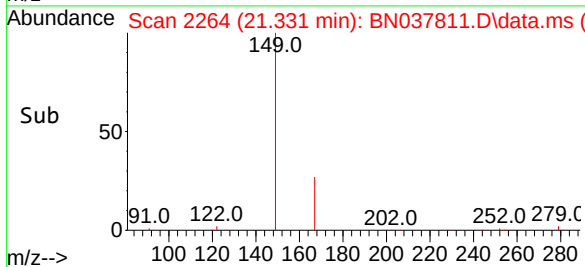
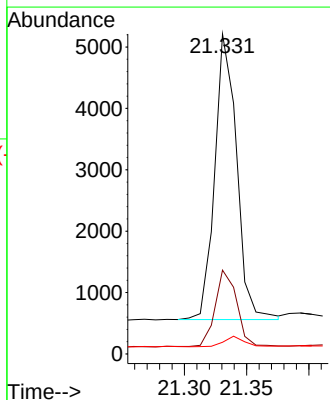
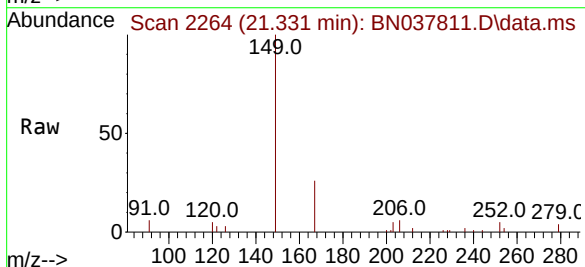
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

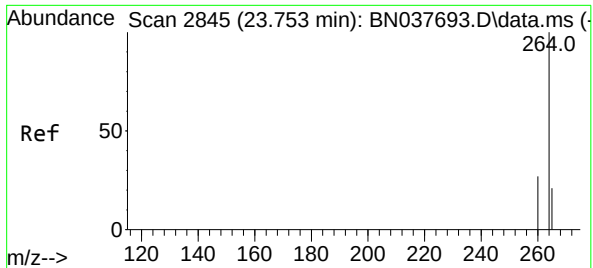
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	23.5	35.3
229	19.8	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.446 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

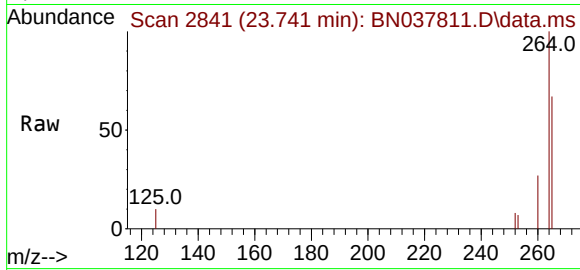
Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.3	20.8	31.2
279	3.6	3.3	4.9



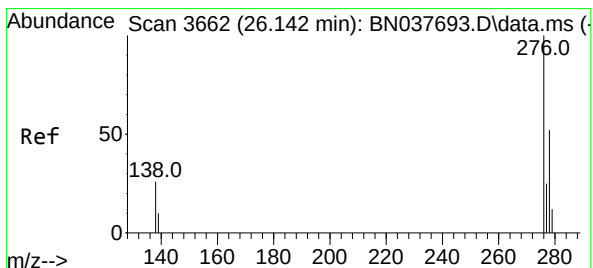
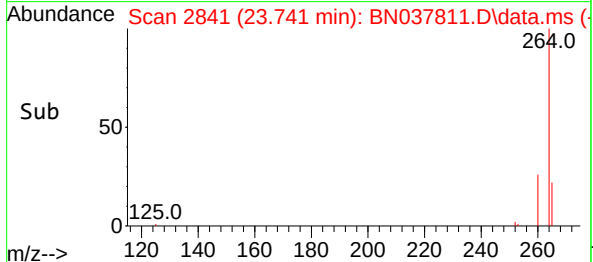
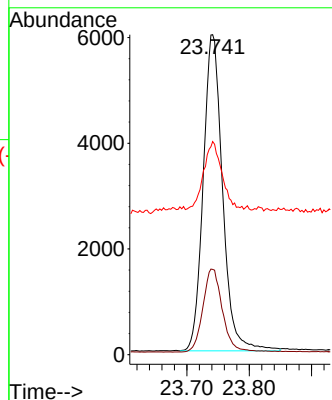


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.741 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

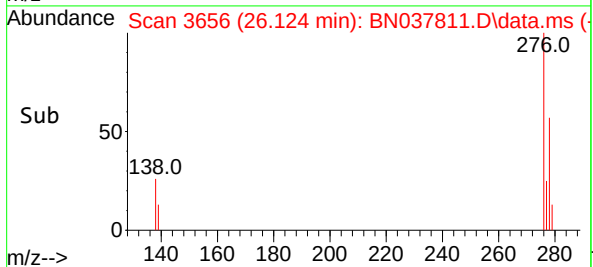
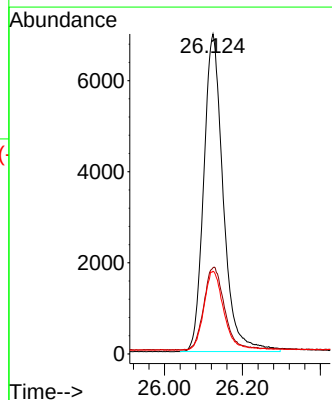
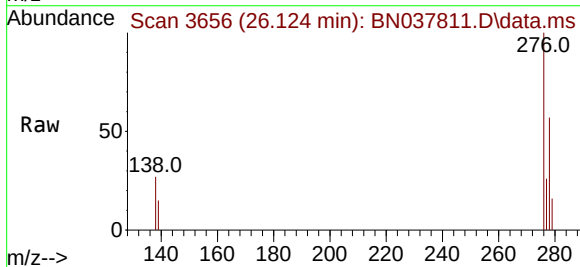


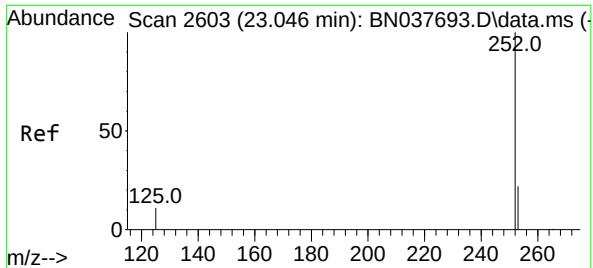
Tgt Ion:264 Resp: 12915
Ion Ratio Lower Upper
264 100
260 26.7 21.8 32.8
265 66.6 39.4 59.2#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.447 ng
RT: 26.124 min Scan# 3656
Delta R.T. -0.018 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:276 Resp: 24237
Ion Ratio Lower Upper
276 100
138 27.3 21.9 32.9
277 25.1 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.389 ng

RT: 23.037 min Scan# 2600

Delta R.T. -0.009 min

Lab File: BN037811.D

Acq: 19 Sep 2025 13:03

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

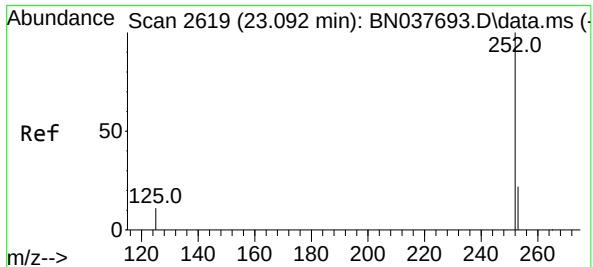
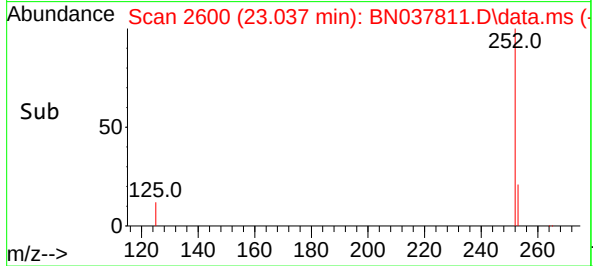
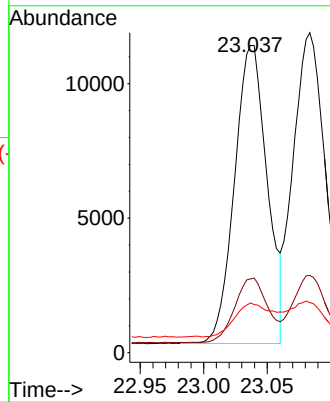
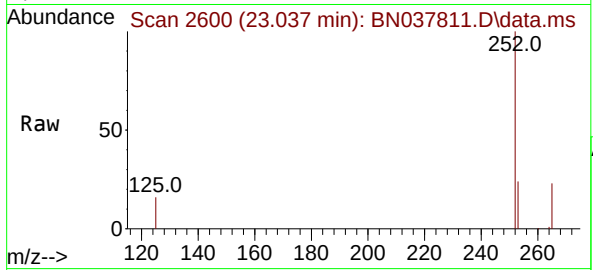
Tgt Ion:252 Resp: 19797

Ion Ratio Lower Upper

252 100

253 24.0 19.4 29.2

125 16.2 11.2 16.8



#38

Benzo(k)fluoranthene

Concen: 0.402 ng

RT: 23.084 min Scan# 2616

Delta R.T. -0.009 min

Lab File: BN037811.D

Acq: 19 Sep 2025 13:03

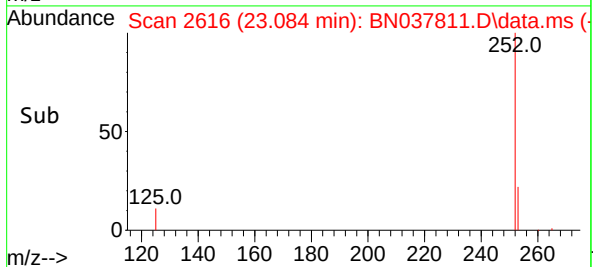
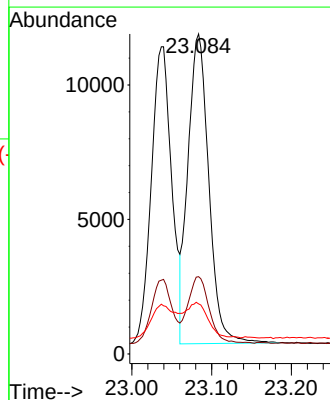
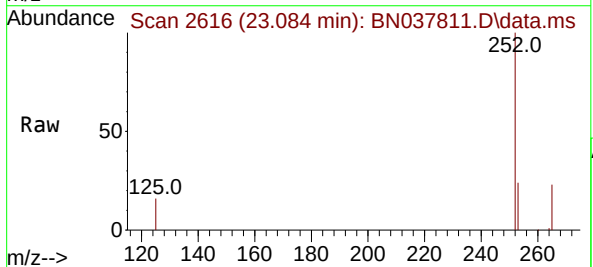
Tgt Ion:252 Resp: 20862

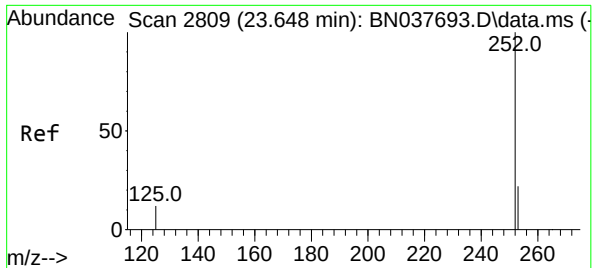
Ion Ratio Lower Upper

252 100

253 24.2 19.4 29.0

125 15.7 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.388 ng

RT: 23.639 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037811.D

Acq: 19 Sep 2025 13:03

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

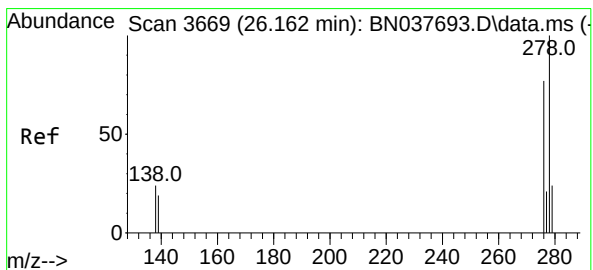
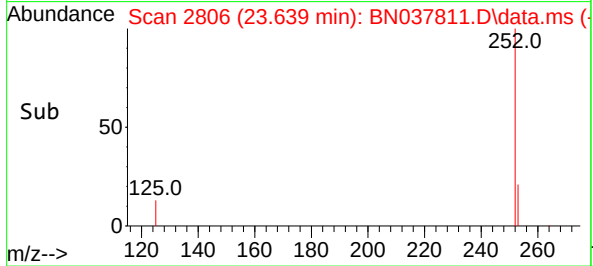
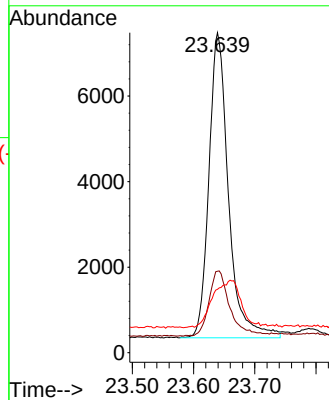
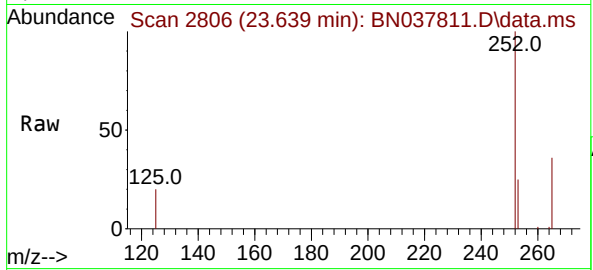
Tgt Ion:252 Resp: 15816

Ion Ratio Lower Upper

252 100

253 25.4 20.8 31.2

125 19.8 13.9 20.9



#40

Dibenzo(a,h)anthracene

Concen: 0.437 ng

RT: 26.139 min Scan# 3661

Delta R.T. -0.024 min

Lab File: BN037811.D

Acq: 19 Sep 2025 13:03

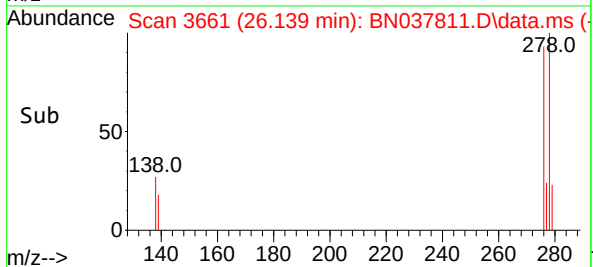
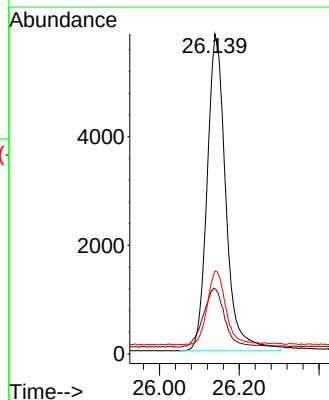
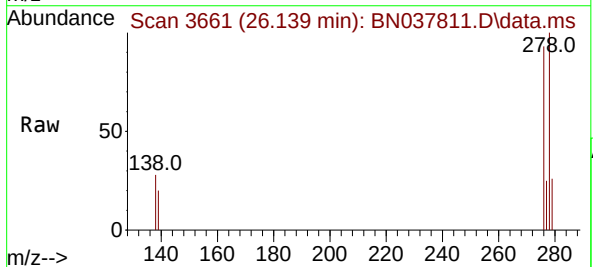
Tgt Ion:278 Resp: 18950

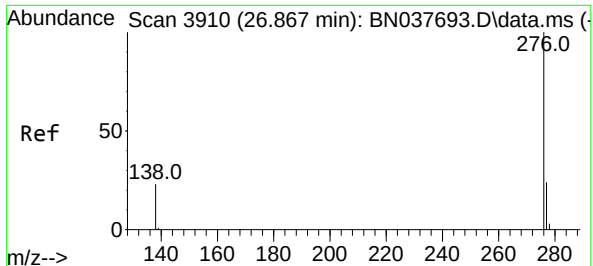
Ion Ratio Lower Upper

278 100

139 20.4 17.8 26.6

279 25.9 22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 0.391 ng

RT: 26.846 min Scan# 3910

Delta R.T. -0.021 min

Lab File: BN037811.D

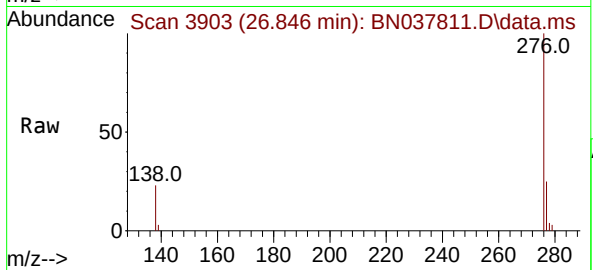
Acq: 19 Sep 2025 13:03

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



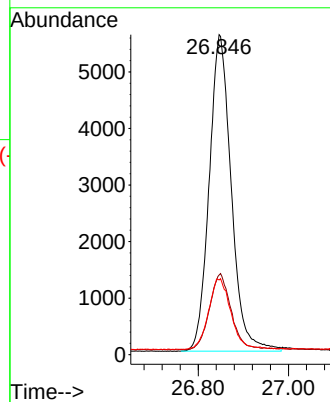
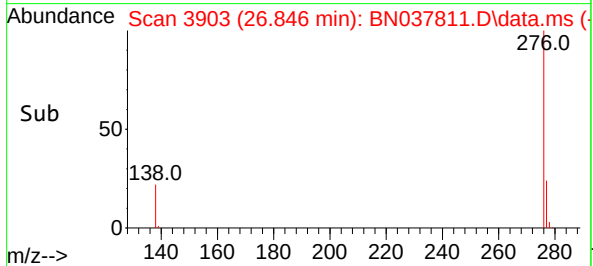
Tgt Ion:276 Resp: 18988

Ion Ratio Lower Upper

276 100

277 24.9 20.6 31.0

138 23.3 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
 Data File : BN037811.D
 Acq On : 19 Sep 2025 13:03
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 19 13:27:51 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	116	0.00
2	1,4-Dioxane	0.417	0.424	-1.7	117	0.00
3	n-Nitrosodimethylamine	0.544	0.565	-3.9	117	0.00
4 S	2-Fluorophenol	0.918	1.044	-13.7	136	0.00
5 S	Phenol-d6	1.191	1.176	1.3	118	0.00
6	bis(2-Chloroethyl)ether	1.064	1.039	2.3	113	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	119	-0.01
8 S	Nitrobenzene-d5	0.293	0.292	0.3	122	-0.01
9	Naphthalene	1.093	1.067	2.4	118	-0.01
10	Hexachlorobutadiene	0.198	0.191	3.5	115	-0.02
11 SURR	2-Methylnaphthalene-d10	0.530	0.497	6.2	118	-0.02
12	2-Methylnaphthalene	0.676	0.649	4.0	117	-0.01
13 I	Acenaphthene-d10	1.000	1.000	0.0	119	-0.01
14 S	2,4,6-Tribromophenol	0.104	0.131	-26.0#	154#	-0.01
15 S	2-Fluorobiphenyl	1.673	1.615	3.5	116	-0.01
16	Acenaphthylene	1.834	1.698	7.4	113	0.00
17	Acenaphthene	1.240	1.176	5.2	115	-0.01
18	Fluorene	1.502	1.434	4.5	118	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	120	-0.01
20	4,6-Dinitro-2-methylphenol	0.037	0.031	16.2	112	-0.01
21	4-Bromophenyl-phenylether	0.261	0.241	7.7	115	-0.01
22	Hexachlorobenzene	0.300	0.300	0.0	123	-0.01
23	Atrazine	0.166	0.155	6.6	123	-0.01
24	Pentachlorophenol	0.087	0.103	-18.4	165#	0.00
25	Phenanthrene	1.259	1.230	2.3	121	-0.01
26	Anthracene	1.116	1.053	5.6	118	-0.01
27 SURR	Fluoranthene-d10	1.004	0.957	4.7	123	0.00
28	Fluoranthene	1.381	1.351	2.2	124	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	132	0.00
30	Pyrene	1.566	1.475	5.8	125	0.00
31 S	Terphenyl-d14	0.812	0.765	5.8	126	-0.01
32	Benzo(a)anthracene	1.395	1.322	5.2	129	0.00
33	Chrysene	1.496	1.482	0.9	131	0.00
34	Bis(2-ethylhexyl)phthalate	0.414	0.461	-11.4	162#	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	144	-0.01
36	Indeno(1,2,3-cd)pyrene	1.681	1.877	-11.7	175#	-0.02
37	Benzo(b)fluoranthene	1.575	1.533	2.7	142	0.00
38	Benzo(k)fluoranthene	1.606	1.615	-0.6	153#	0.00
39 C	Benzo(a)pyrene	1.261	1.225	2.9	147	0.00
40	Dibenzo(a,h)anthracene	1.342	1.467	-9.3	175#	-0.02
41	Benzo(g,h,i)perylene	1.506	1.470	2.4	146	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
 Data File : BN037811.D
 Acq On : 19 Sep 2025 13:03
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 19 13:27:51 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	116	0.00
2	1,4-Dioxane	0.400	0.407	-1.7	117	0.00
3	n-Nitrosodimethylamine	0.400	0.415	-3.7	117	0.00
4 S	2-Fluorophenol	0.400	0.455	-13.7	136	0.00
5 S	Phenol-d6	0.400	0.395	1.3	118	0.00
6	bis(2-Chloroethyl)ether	0.400	0.391	2.3	113	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	119	-0.01
8 S	Nitrobenzene-d5	0.400	0.399	0.3	122	-0.01
9	Naphthalene	0.400	0.391	2.3	118	-0.01
10	Hexachlorobutadiene	0.400	0.387	3.3	115	-0.02
11 SURR	2-Methylnaphthalene-d10	0.400	0.375	6.3	118	-0.02
12	2-Methylnaphthalene	0.400	0.384	4.0	117	-0.01
13 I	Acenaphthene-d10	0.400	0.400	0.0	119	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.501	-25.2#	154	-0.01
15 S	2-Fluorobiphenyl	0.400	0.386	3.5	116	-0.01
16	Acenaphthylene	0.400	0.370	7.5	113	0.00
17	Acenaphthene	0.400	0.379	5.3	115	-0.01
18	Fluorene	0.400	0.382	4.5	118	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	120	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.332	17.0	112	-0.01
21	4-Bromophenyl-phenylether	0.400	0.369	7.8	115	-0.01
22	Hexachlorobenzene	0.400	0.401	-0.3	123	-0.01
23	Atrazine	0.400	0.375	6.3	123	-0.01
24	Pentachlorophenol	0.400	0.471	-17.7	165	0.00
25	Phenanthrene	0.400	0.391	2.3	121	-0.01
26	Anthracene	0.400	0.378	5.5	118	-0.01
27 SURR	Fluoranthene-d10	0.400	0.381	4.8	123	0.00
28	Fluoranthene	0.400	0.391	2.3	124	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	132	0.00
30	Pyrene	0.400	0.377	5.8	125	0.00
31 S	Terphenyl-d14	0.400	0.377	5.8	126	-0.01
32	Benzo(a)anthracene	0.400	0.379	5.3	129	0.00
33	Chrysene	0.400	0.396	1.0	131	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.446	-11.5	162	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	144	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.447	-11.7	175	-0.02
37	Benzo(b)fluoranthene	0.400	0.389	2.8	142	0.00
38	Benzo(k)fluoranthene	0.400	0.402	-0.5	153	0.00
39 C	Benzo(a)pyrene	0.400	0.388	3.0	147	0.00
40	Dibenzo(a,h)anthracene	0.400	0.437	-9.2	175	-0.02
41	Benzo(g,h,i)perylene	0.400	0.391	2.3	146	-0.02

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: AECO15
 Lab Code: ACE SDG No.: Q3095
 Instrument ID: BNA_N Calibration Date/Time: 09/19/2025 14:19
 Lab File ID: BN037813.D Init. Calib. Date(s): 09/11/2025 09/11/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 09:56 13:33
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.473		-10.8	20.0
Fluoranthene-d10	1.004	0.897		-10.7	20.0
2-Fluorophenol	0.918	0.947		3.2	20.0
Phenol-d6	1.191	1.079		-9.4	20.0
Nitrobenzene-d5	0.293	0.284		-3.1	20.0
2-Fluorobiphenyl	1.673	1.589		-5.0	20.0
2,4,6-Tribromophenol	0.104	0.121		16.3	20.0
Terphenyl-d14	0.812	0.730		-10.1	20.0
1,4-Dioxane	0.417	0.410		-1.7	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
 Data File : BN037813.D
 Acq On : 19 Sep 2025 14:19
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Sep 19 15:09:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

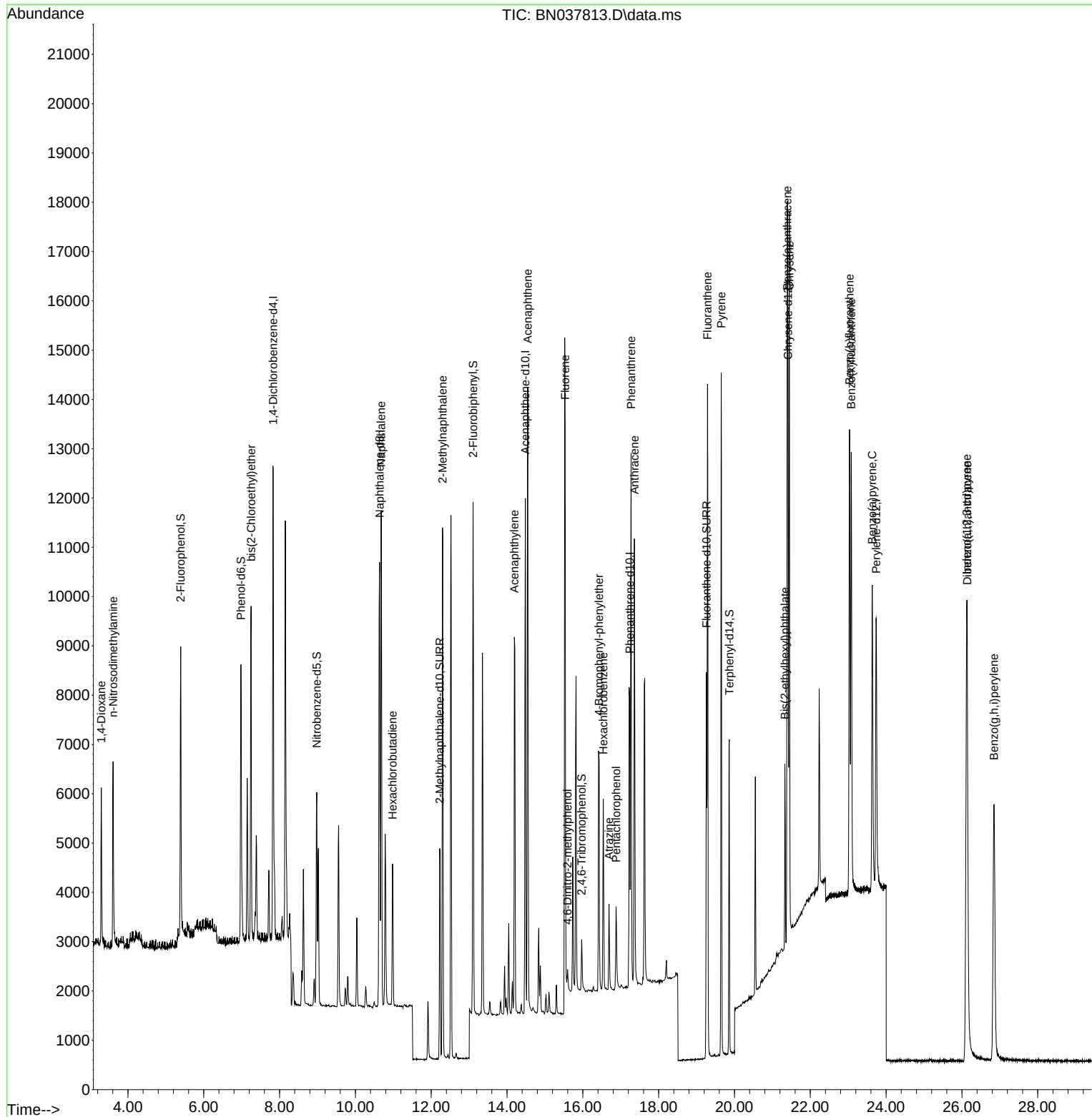
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	4812	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	12410	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	5585	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	9638	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	8466	0.400	ng	0.00
35) Perylene-d12	23.739	264	8084	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	4556	0.412	ng	0.00
5) Phenol-d6	6.981	99	5192	0.362	ng	0.00
8) Nitrobenzene-d5	8.982	82	3525	0.388	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	5866	0.357	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	674	0.463	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	8872	0.380	ng	-0.01
27) Fluoranthene-d10	19.262	212	8646	0.357	ng	0.00
31) Terphenyl-d14	19.861	244	6183	0.360	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	1973	0.394	ng	96
3) n-Nitrosodimethylamine	3.608	42	2320	0.354	ng	92
6) bis(2-Chloroethyl)ether	7.248	93	4798	0.375	ng	99
9) Naphthalene	10.680	128	13094	0.386	ng	99
10) Hexachlorobutadiene	10.979	225	2398	0.391	ng	# 100
12) 2-Methylnaphthalene	12.299	142	7752	0.369	ng	98
16) Acenaphthylene	14.195	152	9175	0.358	ng	100
17) Acenaphthene	14.548	154	6415	0.370	ng	97
18) Fluorene	15.535	166	7451	0.355	ng	100
20) 4,6-Dinitro-2-methylph...	15.597	198	309	0.346	ng	# 73
21) 4-Bromophenyl-phenylether	16.429	248	2295	0.365	ng	# 95
22) Hexachlorobenzene	16.540	284	3006	0.416	ng	98
23) Atrazine	16.689	200	1460	0.365	ng	96
24) Pentachlorophenol	16.876	266	969	0.462	ng	96
25) Phenanthrene	17.273	178	11575	0.381	ng	100
26) Anthracene	17.360	178	9951	0.370	ng	99
28) Fluoranthene	19.290	202	12394	0.372	ng	100
30) Pyrene	19.652	202	12322	0.372	ng	100
32) Benzo(a)anthracene	21.393	228	10829	0.367	ng	99
33) Chrysene	21.447	228	12256	0.387	ng	99
34) Bis(2-ethylhexyl)phtha...	21.331	149	3318	0.379	ng	99
36) Indeno(1,2,3-cd)pyrene	26.124	276	13502	0.398	ng	98
37) Benzo(b)fluoranthene	23.034	252	12627	0.397	ng	# 95
38) Benzo(k)fluoranthene	23.081	252	12470	0.384	ng	# 95
39) Benzo(a)pyrene	23.633	252	9793	0.384	ng	# 93
40) Dibenzo(a,h)anthracene	26.139	278	10208	0.376	ng	98
41) Benzo(g,h,i)perylene	26.846	276	12010	0.395	ng	99

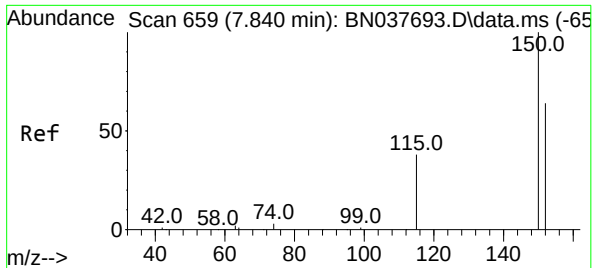
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037813.D
Acq On : 19 Sep 2025 14:19
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 19 15:09:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

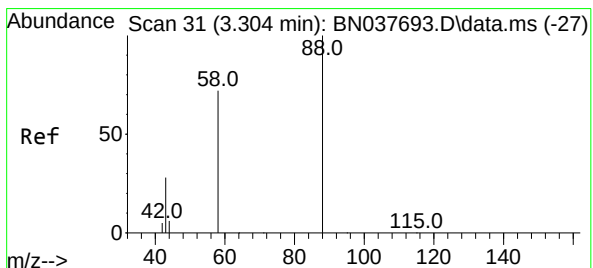
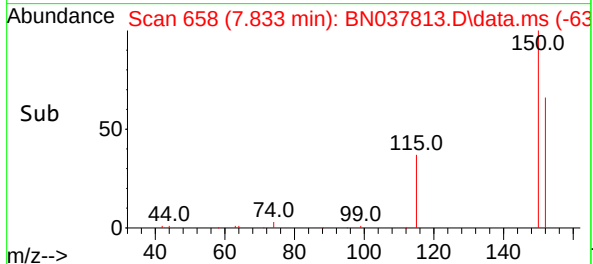
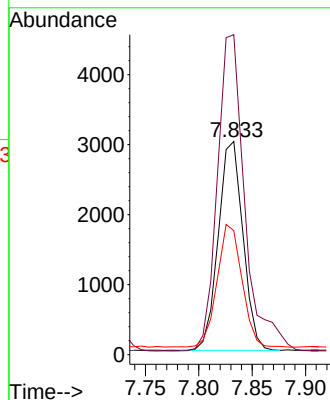
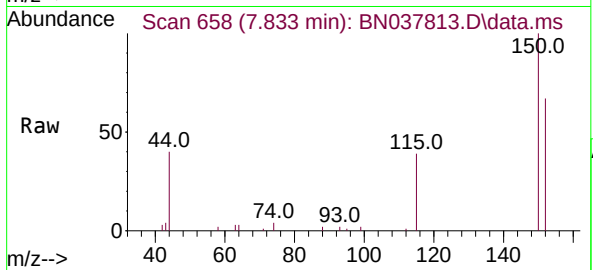




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

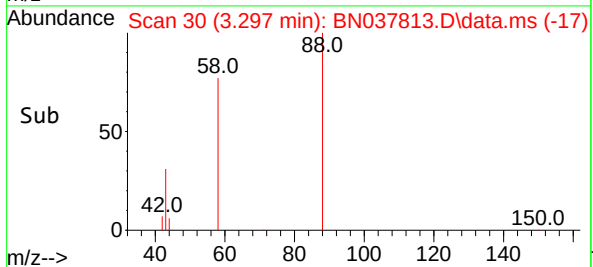
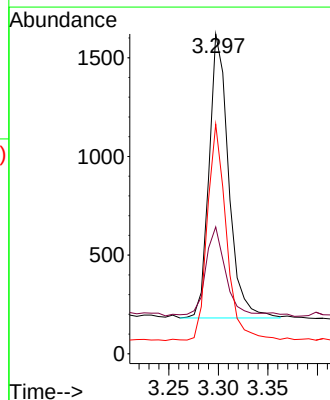
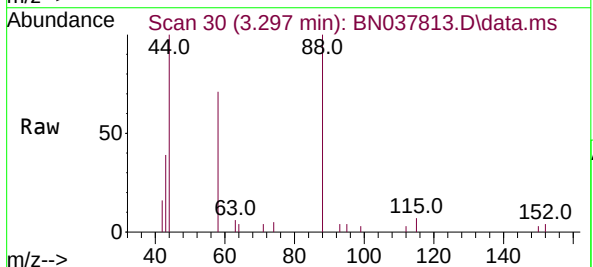
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

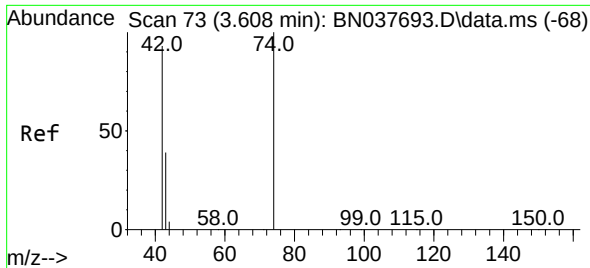
Tgt Ion:152 Resp: 4812
Ion Ratio Lower Upper
152 100
150 150.0 124.5 186.7
115 58.1 49.2 73.8



#2
1,4-Dioxane
Concen: 0.394 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion: 88 Resp: 1973
Ion Ratio Lower Upper
88 100
43 30.5 26.8 40.2
58 74.5 61.9 92.9

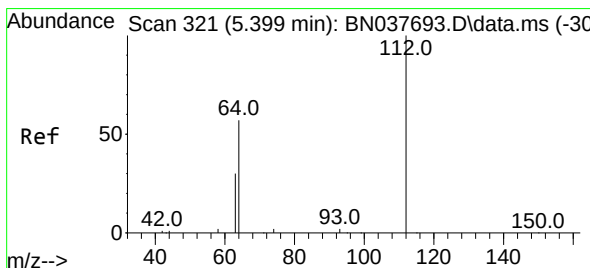
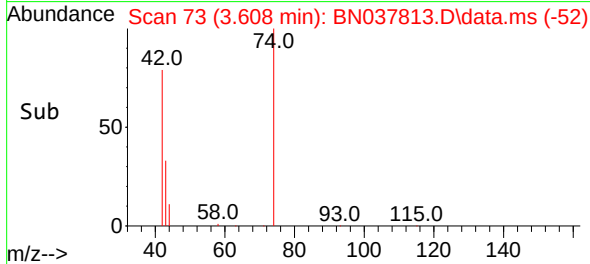
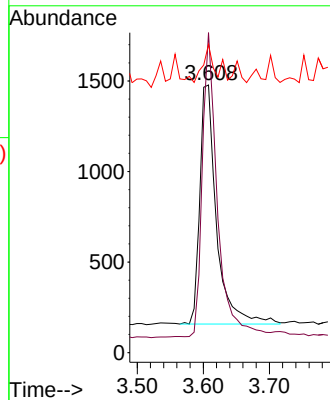
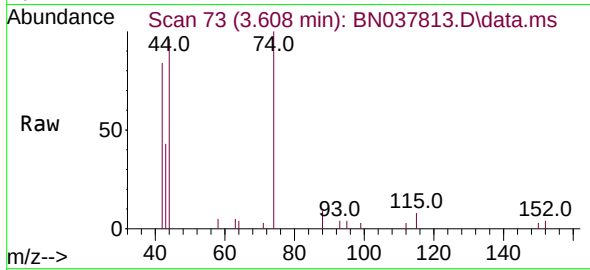




#3
n-Nitrosodimethylamine
Concen: 0.354 ng
RT: 3.608 min Scan# 73
Delta R.T. 0.000 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

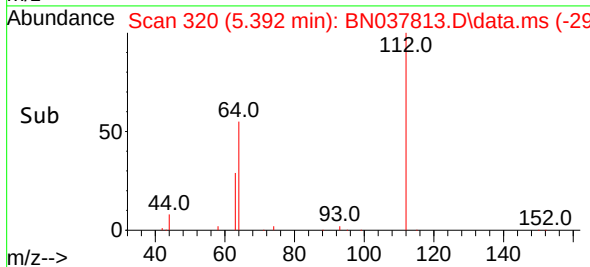
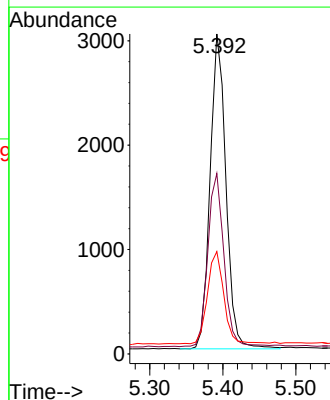
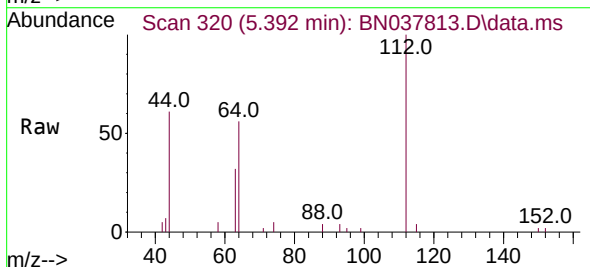
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

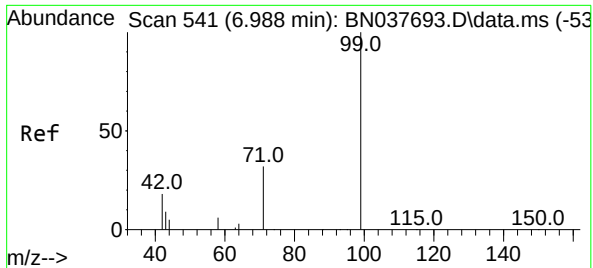
Tgt Ion: 42 Resp: 2320
Ion Ratio Lower Upper
42 100
74 116.8 86.0 129.0
44 10.1 8.4 12.6



#4
2-Fluorophenol
Concen: 0.412 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion: 112 Resp: 4556
Ion Ratio Lower Upper
112 100
64 55.9 44.9 67.3
63 30.0 24.7 37.1

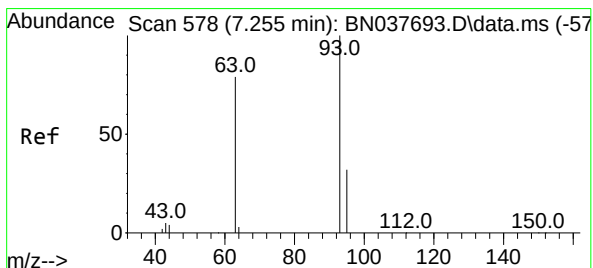
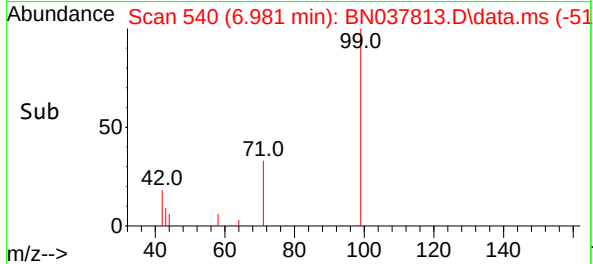
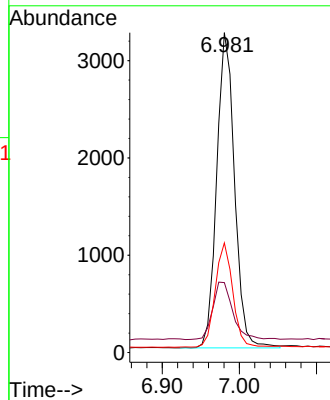
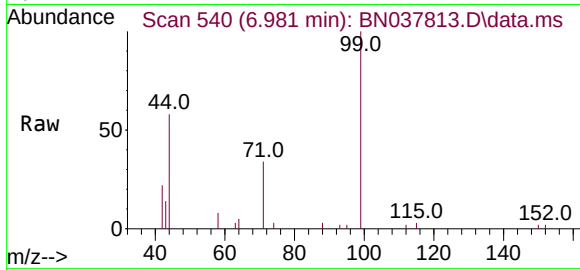




#5
Phenol-d6
Concen: 0.362 ng
RT: 6.981 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

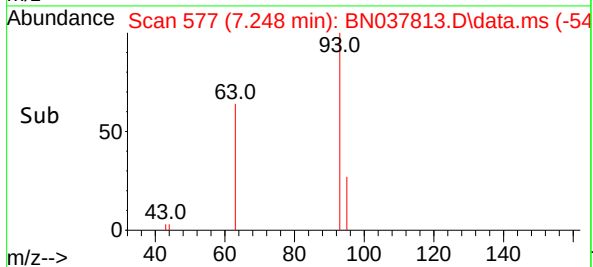
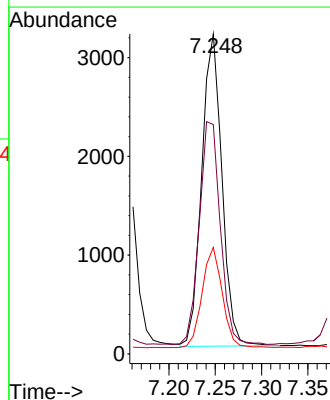
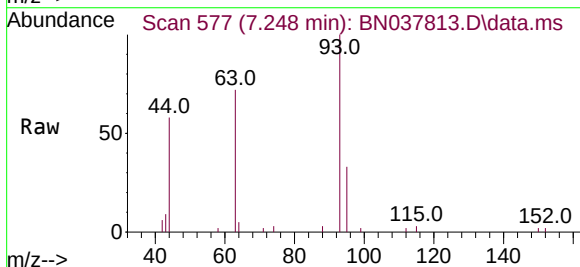
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

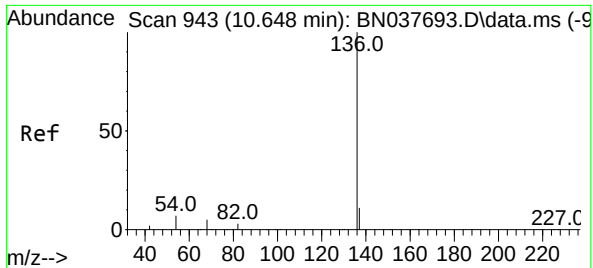
Tgt Ion: 99 Resp: 5192
Ion Ratio Lower Upper
99 100
42 20.6 16.6 24.8
71 33.1 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.375 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion: 93 Resp: 4798
Ion Ratio Lower Upper
93 100
63 74.7 60.6 90.8
95 32.1 26.0 39.0

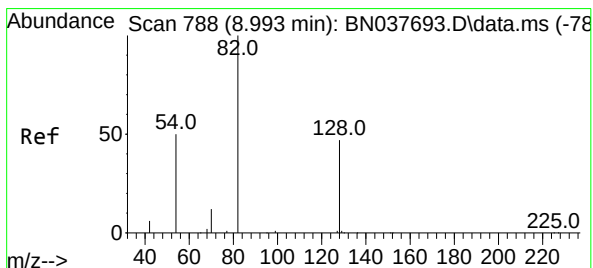
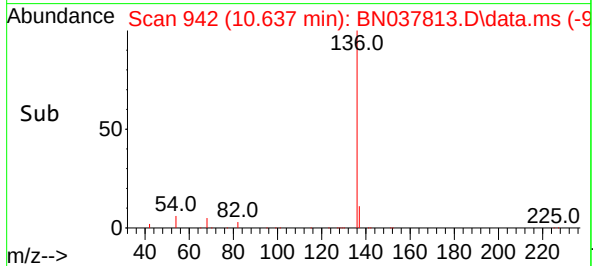
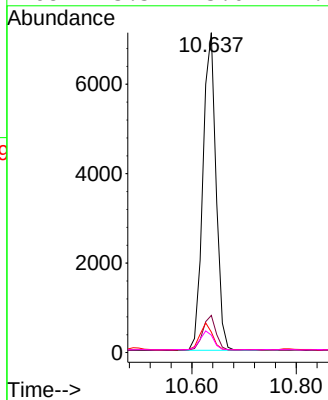
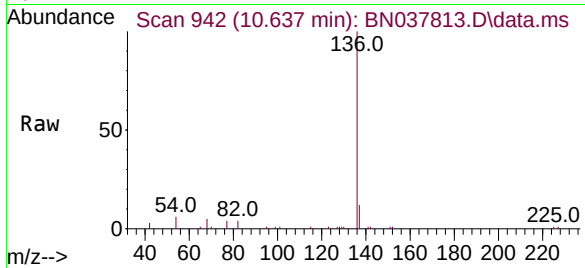




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

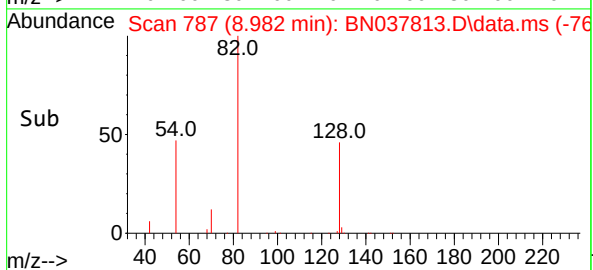
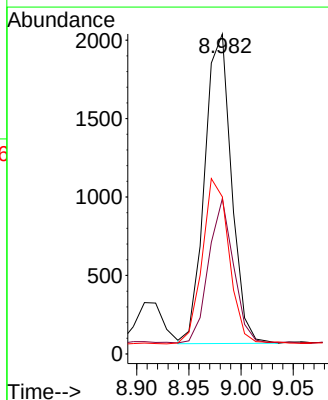
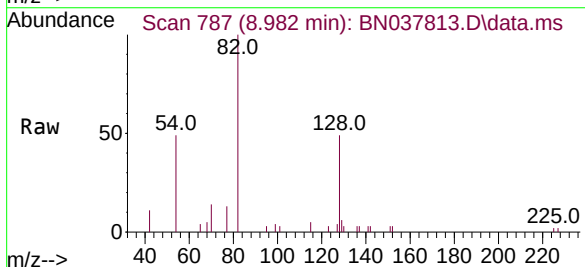
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

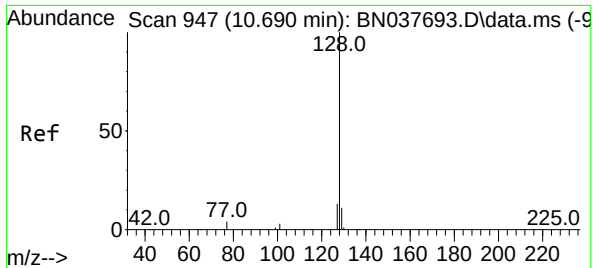
Tgt Ion:	136	Resp:	12410
Ion Ratio	Lower	Upper	
136	100		
137	11.6	9.1	13.7
54	6.4	6.3	9.5
68	5.5	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.388 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:	82	Resp:	3525
Ion Ratio	Lower	Upper	
82	100		
128	48.5	38.3	57.5
54	49.1	41.4	62.2

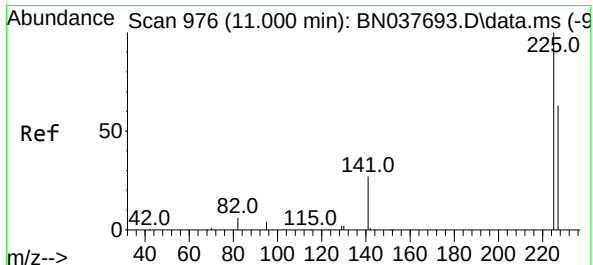
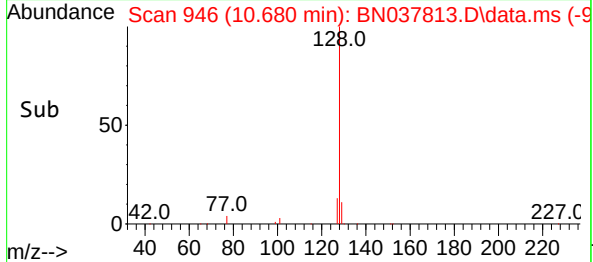
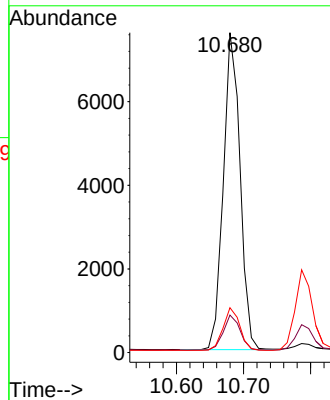
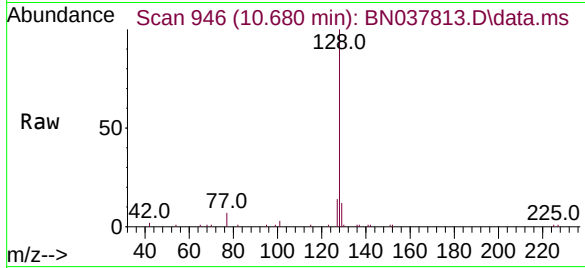




#9
Naphthalene
Concen: 0.386 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

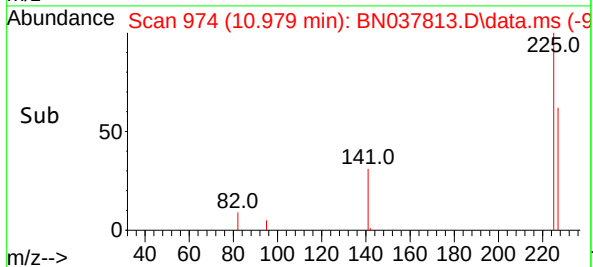
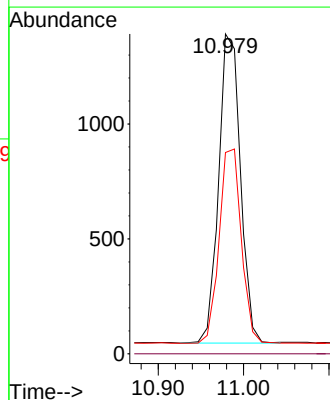
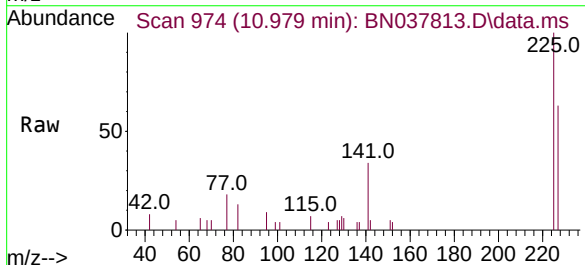
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

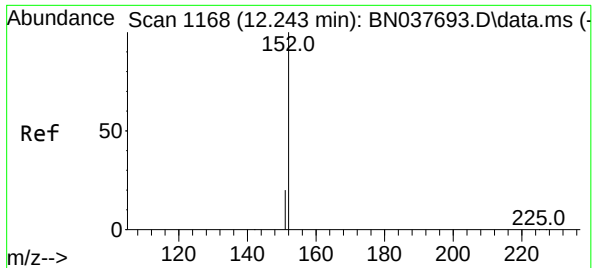
Tgt Ion:128 Resp: 13094
Ion Ratio Lower Upper
128 100
129 11.7 9.1 13.7
127 14.0 10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.391 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.021 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:225 Resp: 2398
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 50.9 76.3

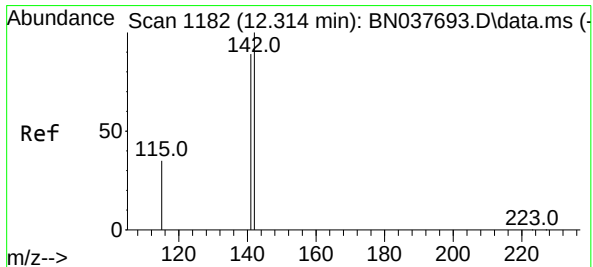
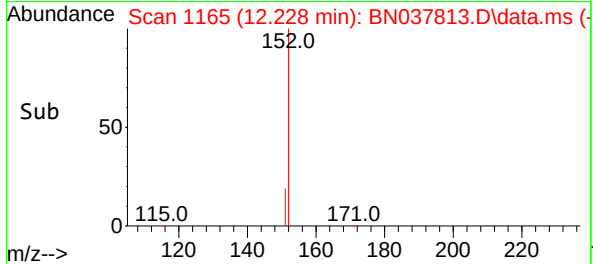
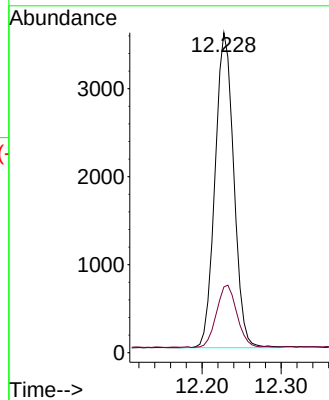
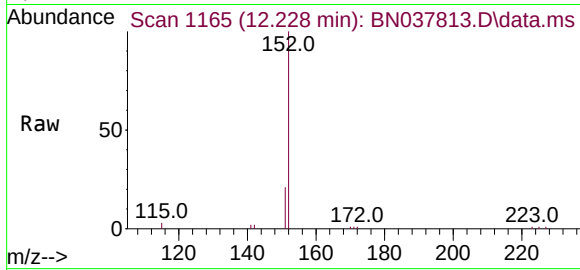




#11
2-Methylnaphthalene-d10
Concen: 0.357 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

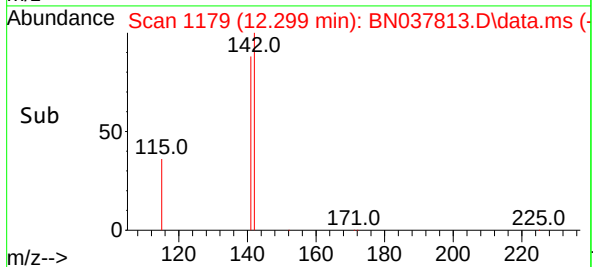
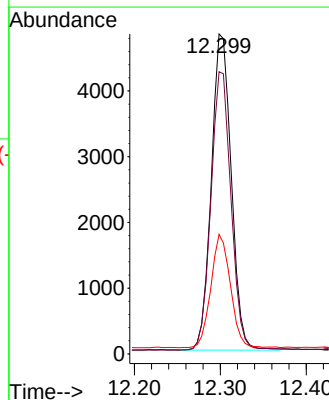
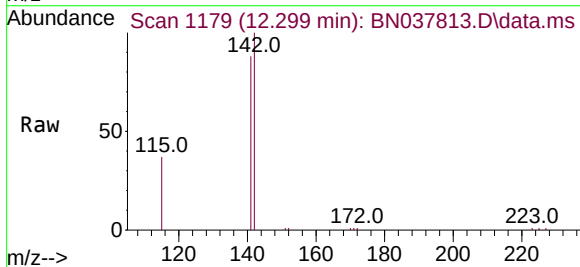
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

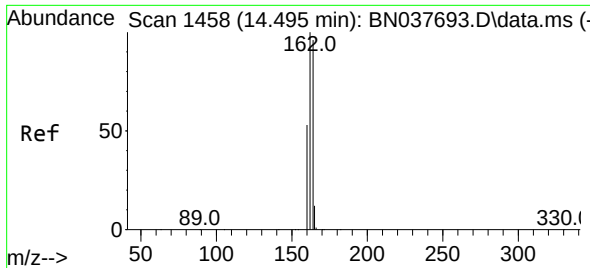
Tgt Ion:152 Resp: 5866
Ion Ratio Lower Upper
152 100
151 21.8 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.369 ng
RT: 12.299 min Scan# 1179
Delta R.T. -0.015 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:142 Resp: 7752
Ion Ratio Lower Upper
142 100
141 88.2 71.6 107.4
115 37.3 28.6 43.0

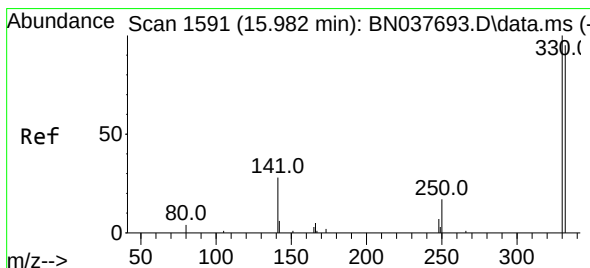
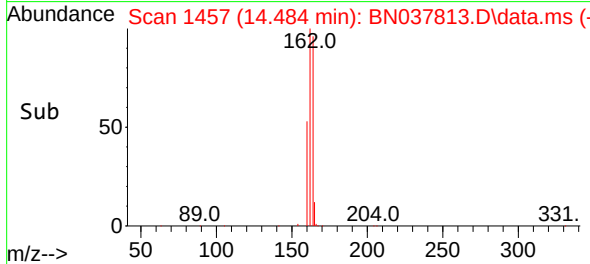
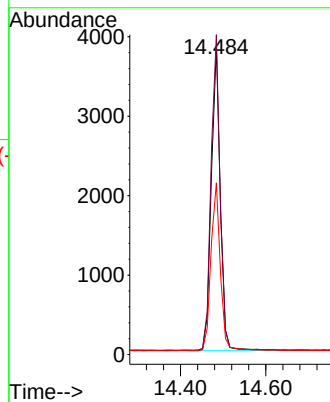
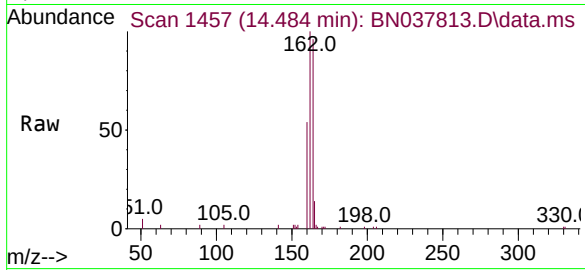




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

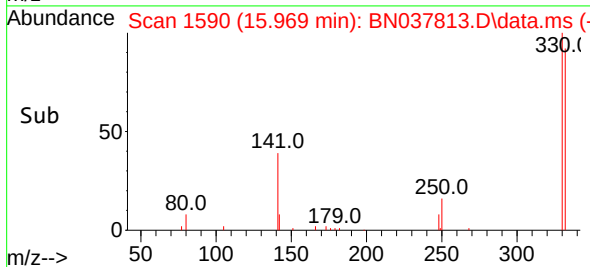
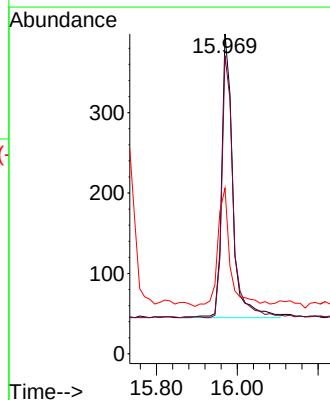
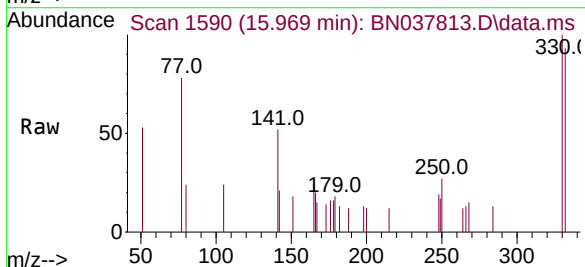
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

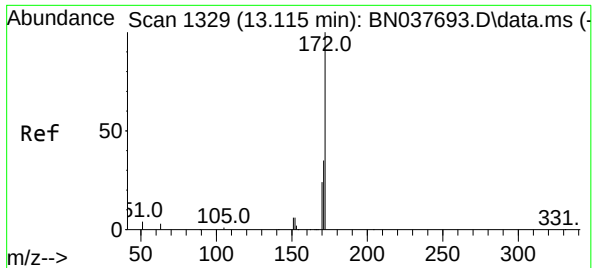
Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.0	83.1	124.7
160	55.8	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.463 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion	Ratio	Lower	Upper
330	100		
332	94.2	75.3	112.9
141	47.2	35.0	52.4

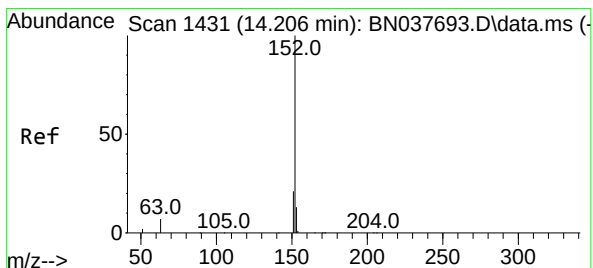
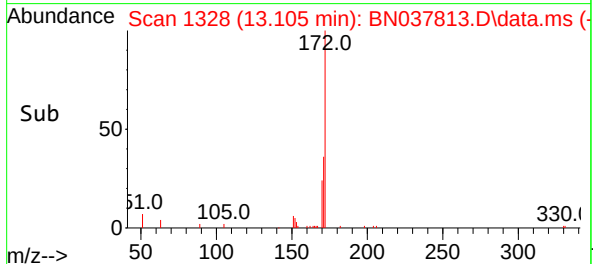
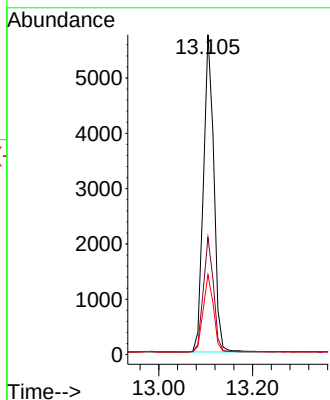
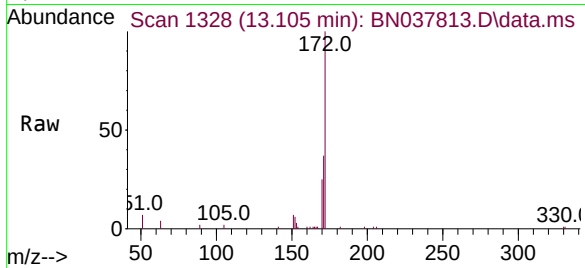




#15
2-Fluorobiphenyl
Concen: 0.380 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

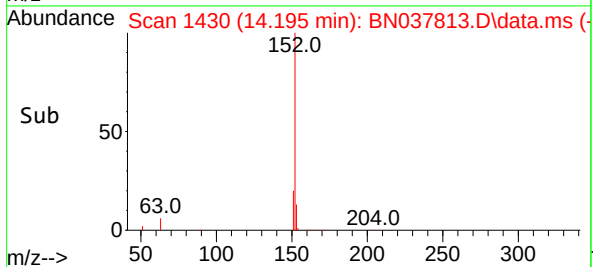
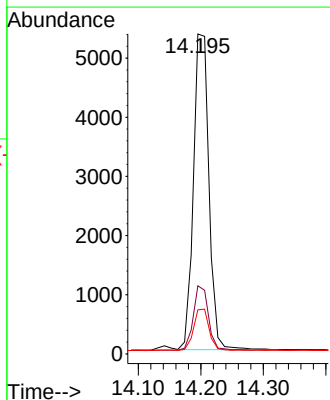
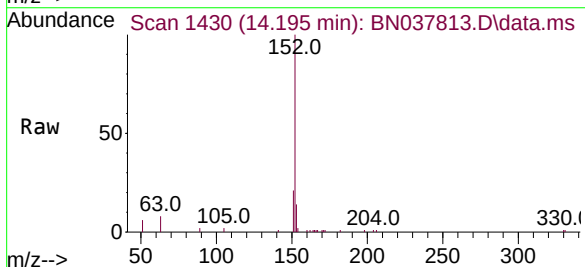
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

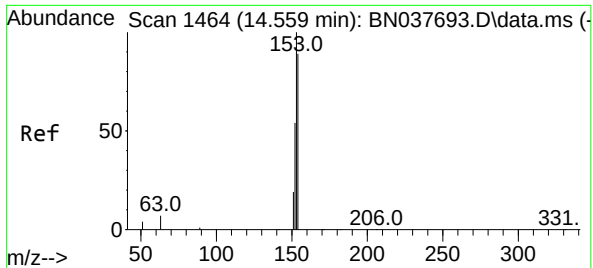
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.6	28.6	43.0
170	25.0	19.8	29.8



#16
Acenaphthylene
Concen: 0.358 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.4	10.4	15.6

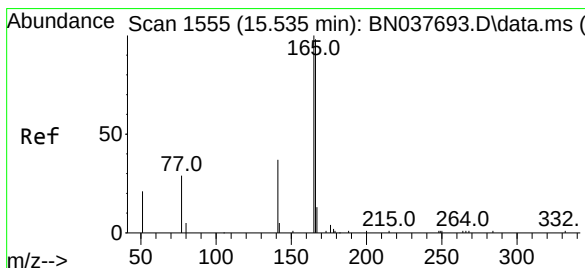
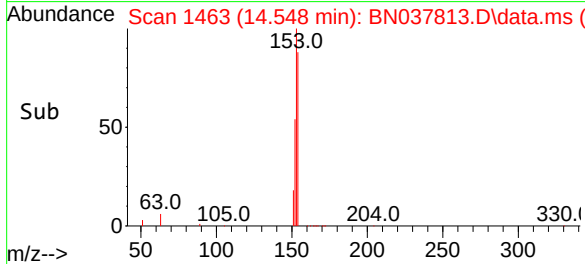
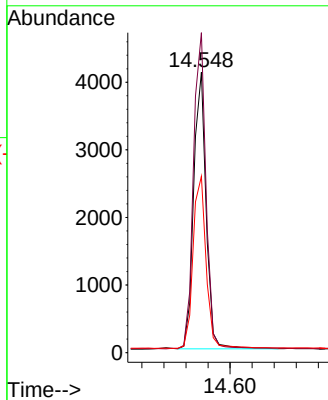
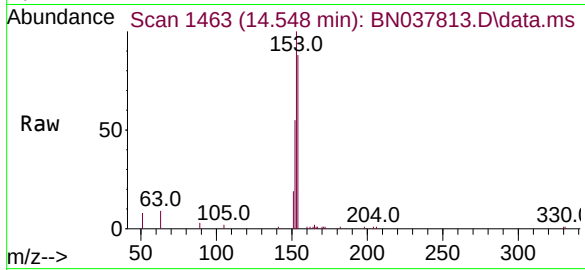




#17
Acenaphthene
Concen: 0.370 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

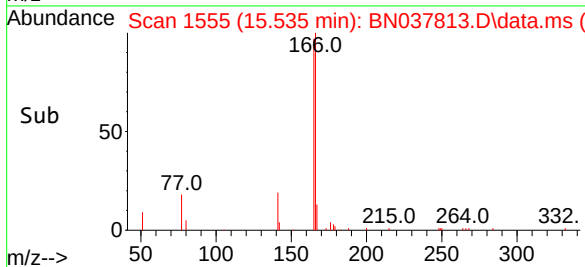
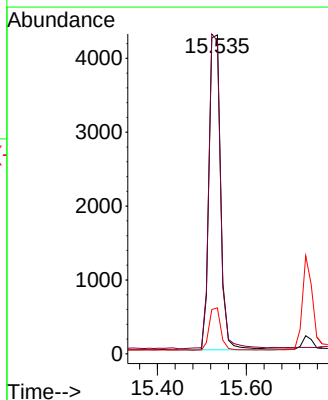
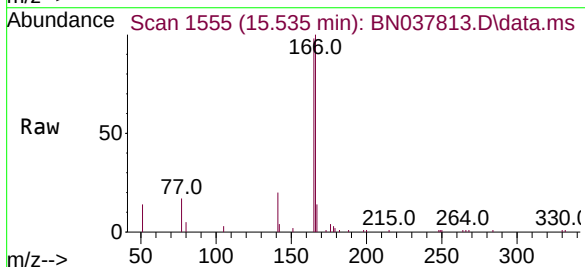
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

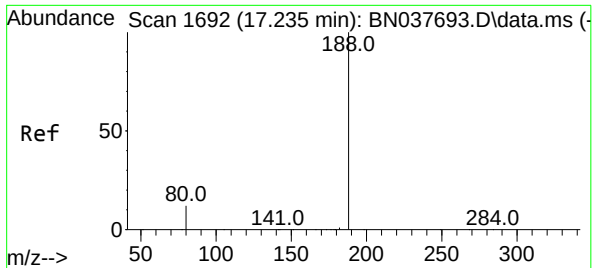
Tgt Ion:154 Resp: 6415
Ion Ratio Lower Upper
154 100
153 115.7 89.8 134.8
152 65.5 50.2 75.2



#18
Fluorene
Concen: 0.355 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.000 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:166 Resp: 7451
Ion Ratio Lower Upper
166 100
165 99.6 79.6 119.4
167 13.8 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. 0.000 min

Lab File: BN037813.D

Acq: 19 Sep 2025 14:19

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

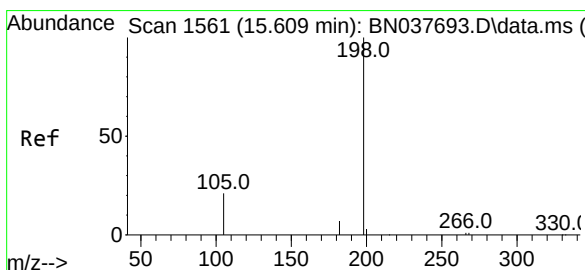
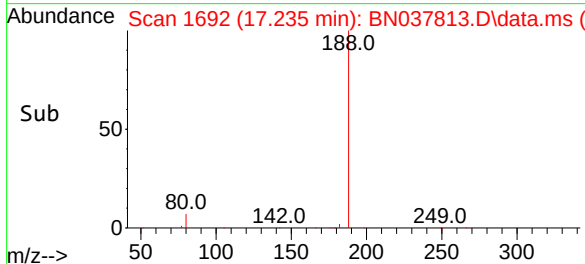
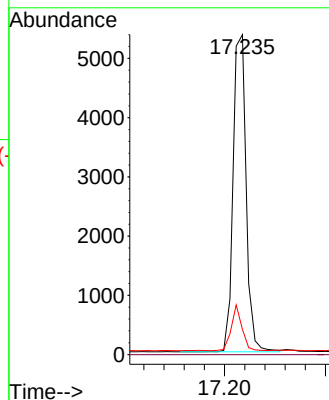
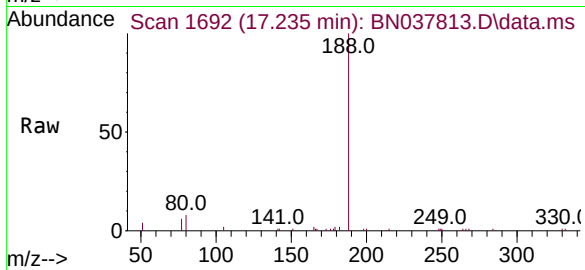
Tgt Ion:188 Resp: 9638

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.9 10.6 15.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.346 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.012 min

Lab File: BN037813.D

Acq: 19 Sep 2025 14:19

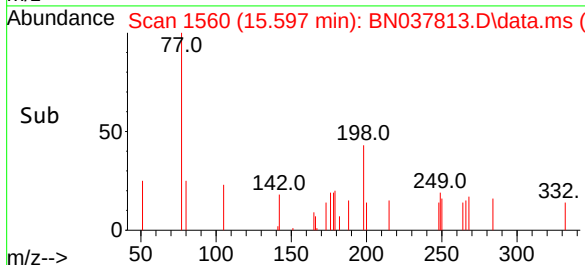
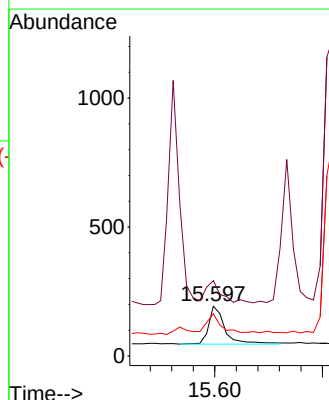
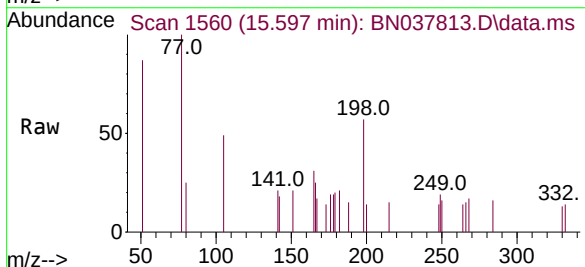
Tgt Ion:198 Resp: 309

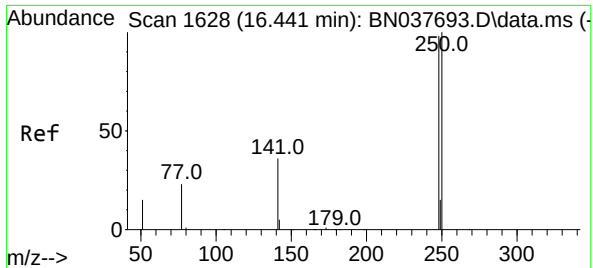
Ion Ratio Lower Upper

198 100

51 151.3 95.1 142.7#

105 85.0 53.8 80.6#

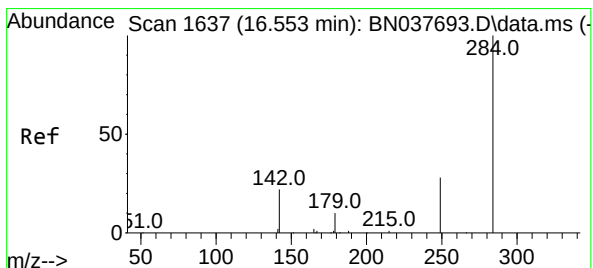
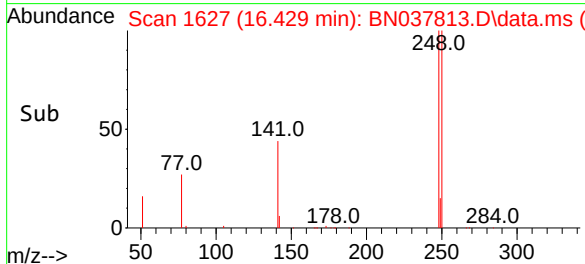
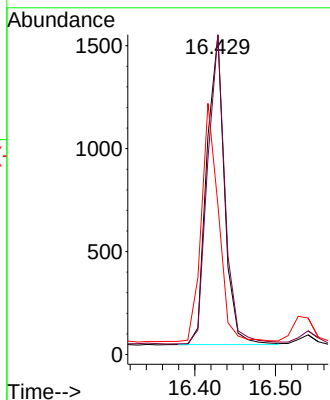
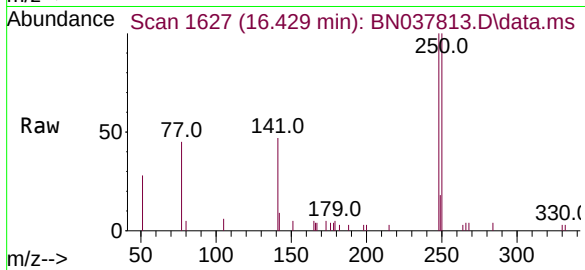




#21
4-Bromophenyl-phenylether
Concen: 0.365 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

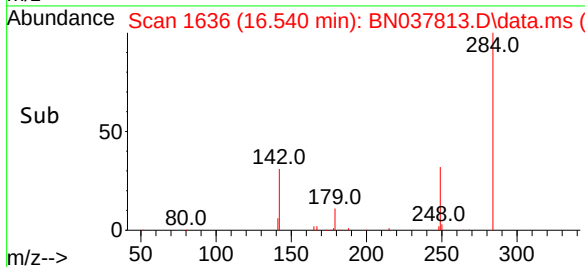
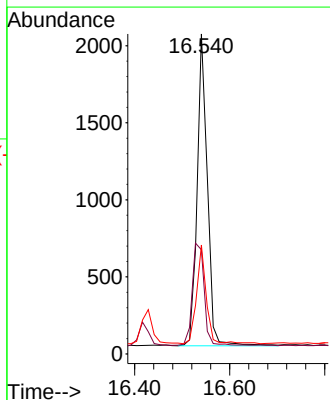
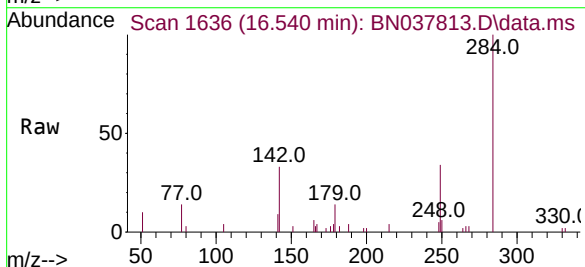
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

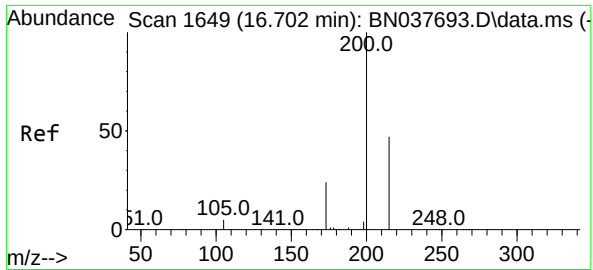
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.1	81.5	122.3
141	46.9	30.8	46.2#



#22
Hexachlorobenzene
Concen: 0.416 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.9	30.9	46.3
249	28.8	24.8	37.2

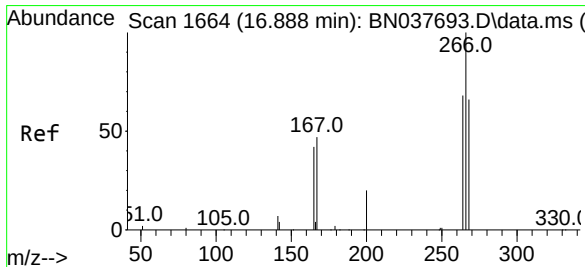
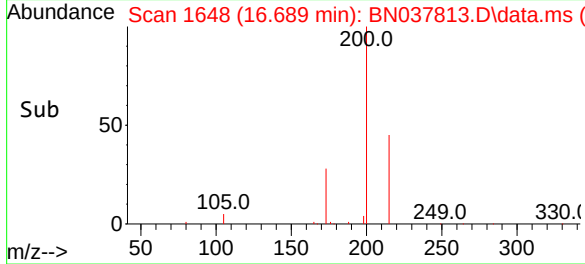
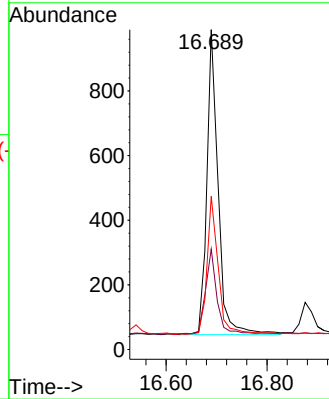
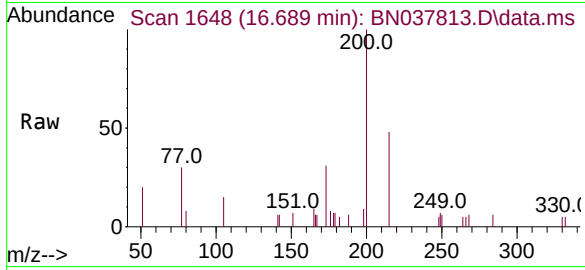




#23
Atrazine
Concen: 0.365 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

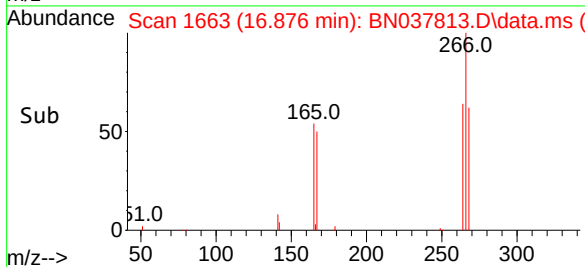
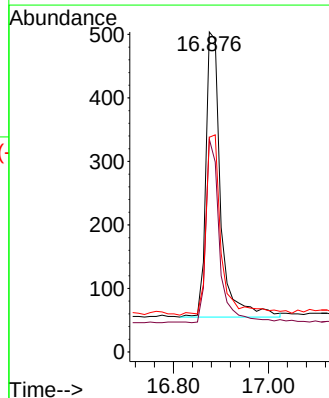
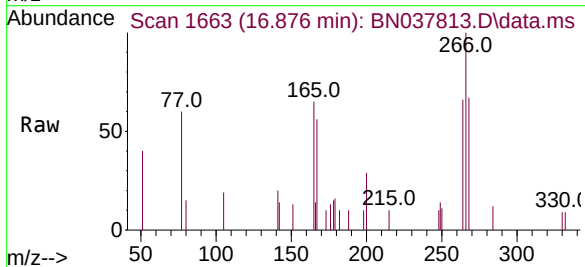
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

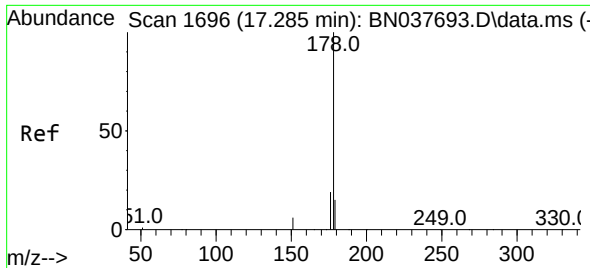
Tgt Ion	Ratio	Lower	Upper
200	100		
173	31.4	21.4	32.2
215	47.9	39.2	58.8



#24
Pentachlorophenol
Concen: 0.462 ng
RT: 16.876 min Scan# 1663
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion	Ratio	Lower	Upper
266	100		
264	59.3	51.6	77.4
268	65.4	53.2	79.8

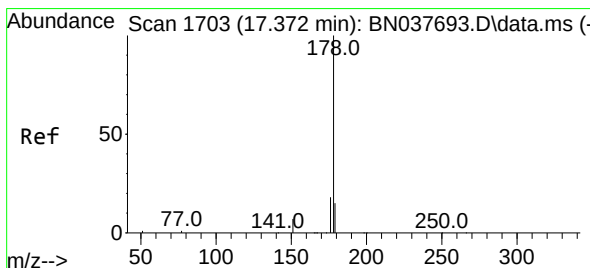
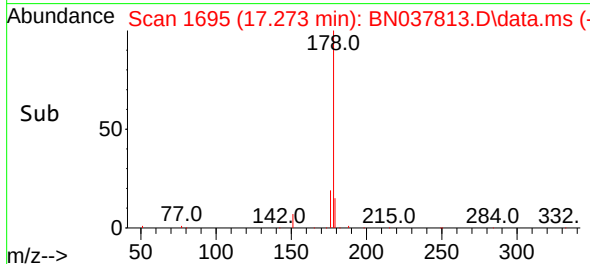
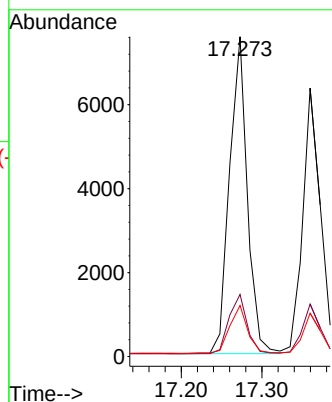
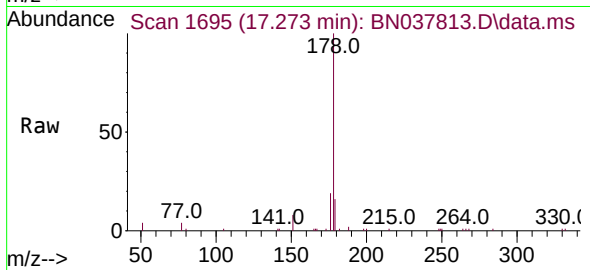




#25
Phenanthrene
Concen: 0.381 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

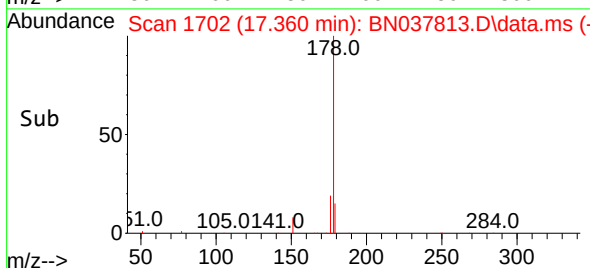
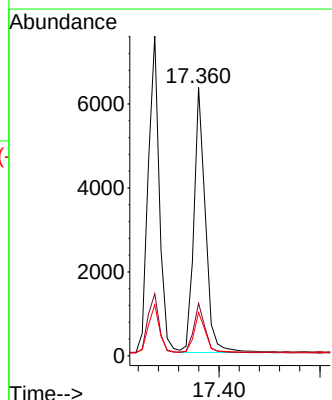
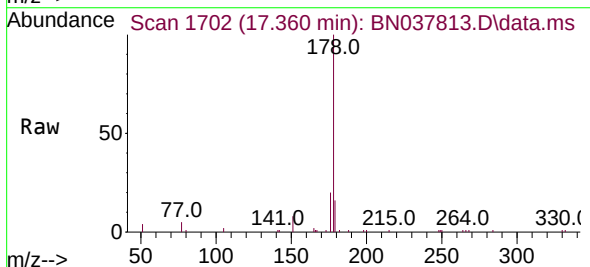
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

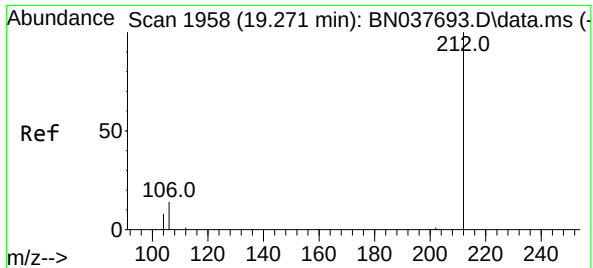
Tgt Ion:178 Resp: 11575
Ion Ratio Lower Upper
178 100
176 19.3 15.3 22.9
179 15.3 12.2 18.2



#26
Anthracene
Concen: 0.370 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:178 Resp: 9951
Ion Ratio Lower Upper
178 100
176 18.6 14.6 22.0
179 14.9 12.2 18.4





#27

Fluoranthene-d10

Concen: 0.357 ng

RT: 19.262 min Scan# 1958

Delta R.T. -0.009 min

Lab File: BN037813.D

Acq: 19 Sep 2025 14:19

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

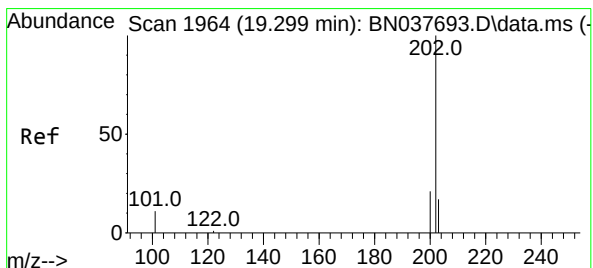
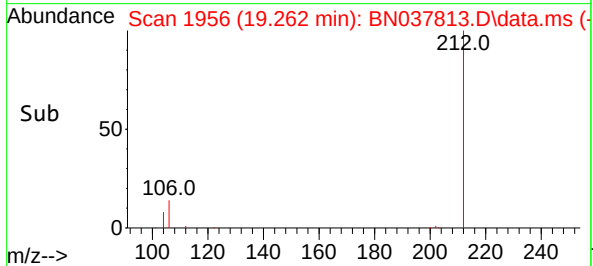
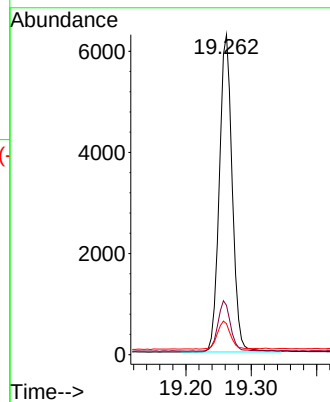
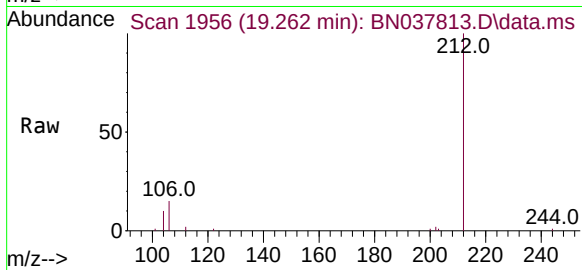
Tgt Ion:212 Resp: 8646

Ion Ratio Lower Upper

212 100

106 15.8 12.2 18.2

104 8.9 6.9 10.3



#28

Fluoranthene

Concen: 0.372 ng

RT: 19.290 min Scan# 1962

Delta R.T. -0.009 min

Lab File: BN037813.D

Acq: 19 Sep 2025 14:19

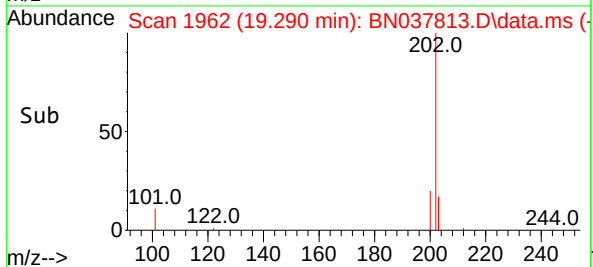
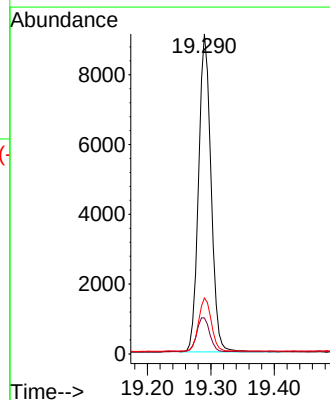
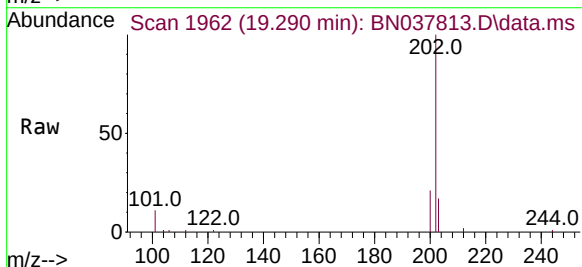
Tgt Ion:202 Resp: 12394

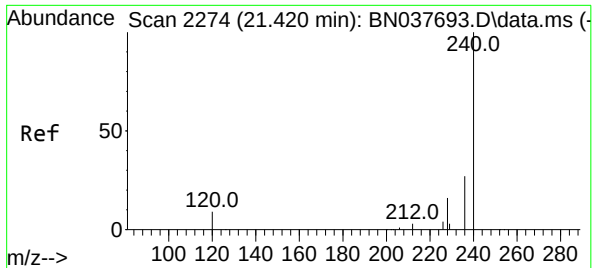
Ion Ratio Lower Upper

202 100

101 11.4 9.3 13.9

203 17.0 13.7 20.5

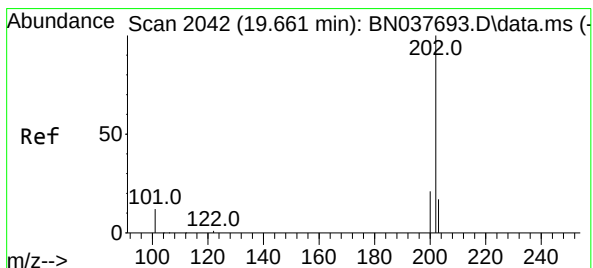
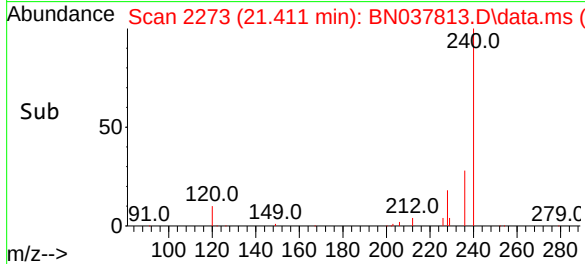
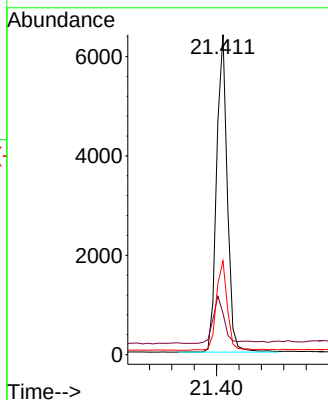
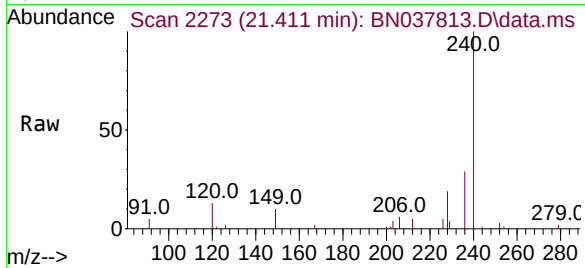




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

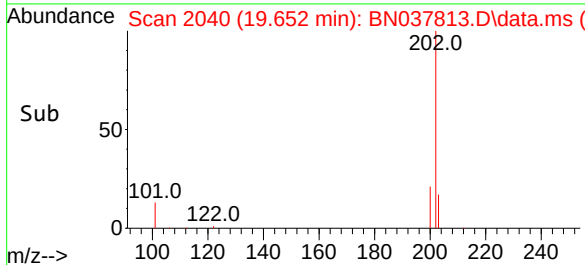
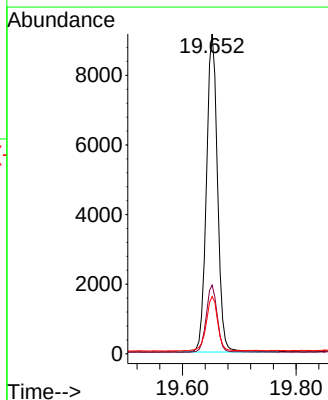
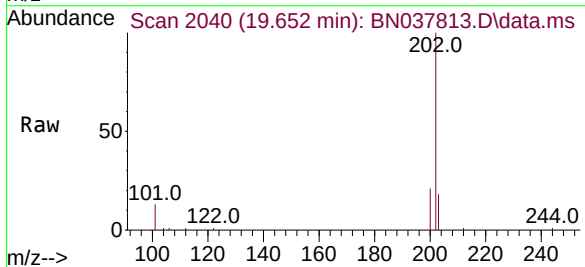
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

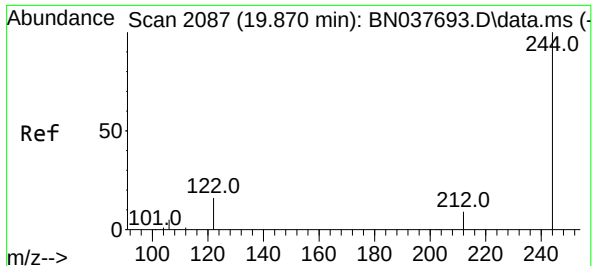
Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.9	9.2	13.8
236	29.3	22.6	33.8



#30
Pyrene
Concen: 0.372 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.8	25.2
203	17.6	14.3	21.5

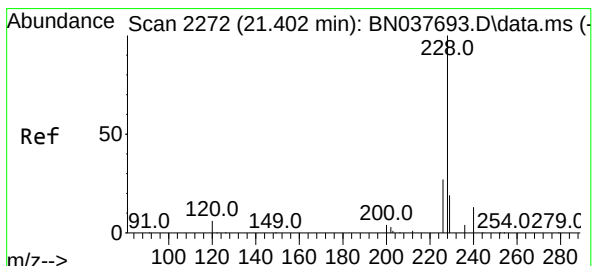
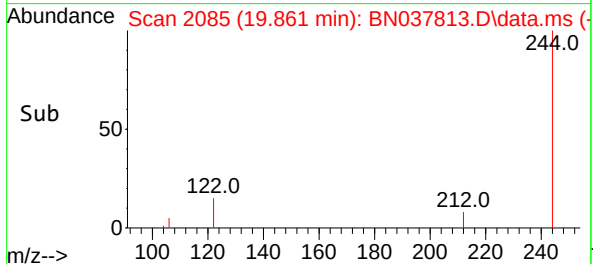
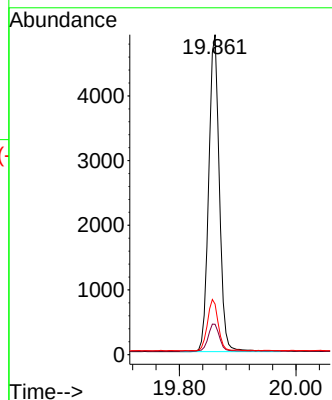
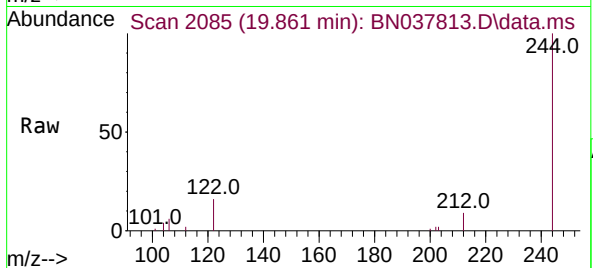




#31
Terphenyl-d14
Concen: 0.360 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

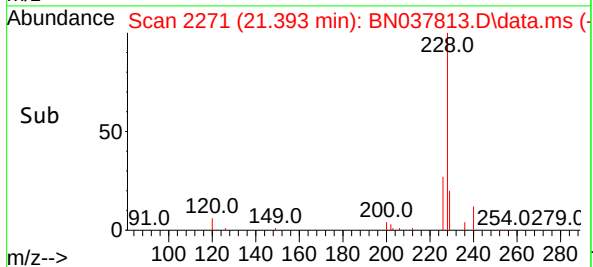
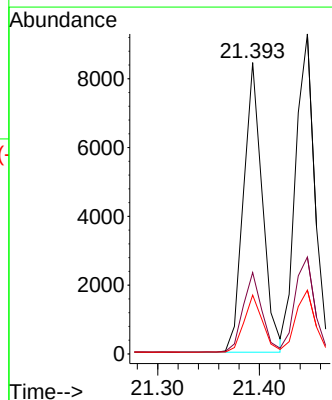
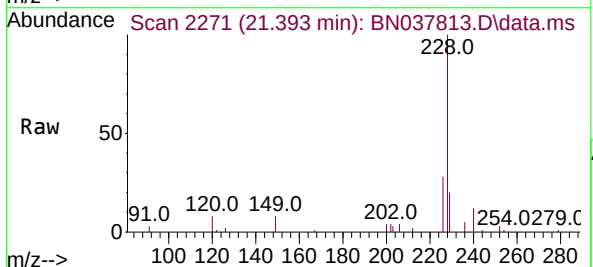
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

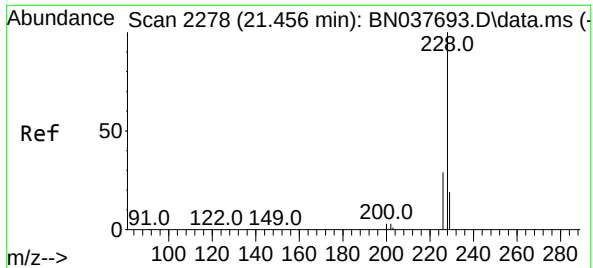
Tgt Ion:244 Resp: 6183
Ion Ratio Lower Upper
244 100
212 9.5 7.5 11.3
122 15.8 13.2 19.8



#32
Benzo(a)anthracene
Concen: 0.367 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:228 Resp: 10829
Ion Ratio Lower Upper
228 100
226 27.9 22.2 33.2
229 20.2 15.8 23.6

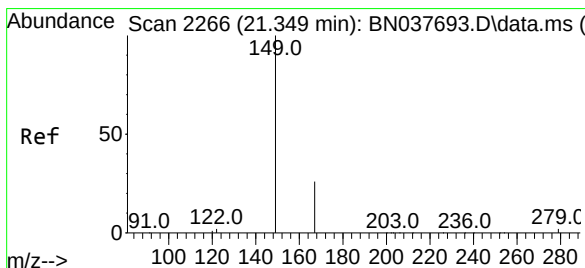
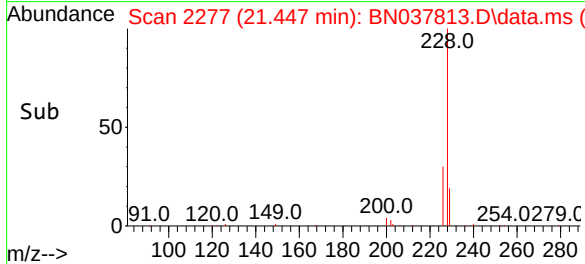
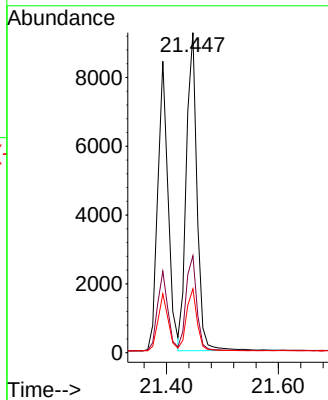
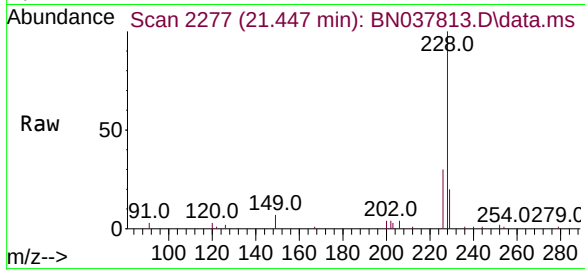




#33
Chrysene
Concen: 0.387 ng
RT: 21.447 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

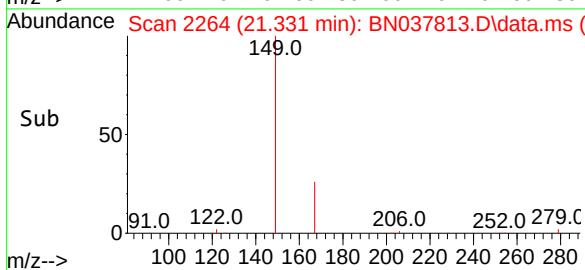
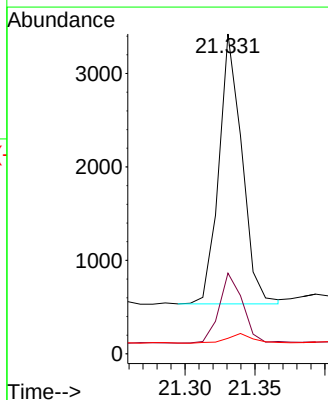
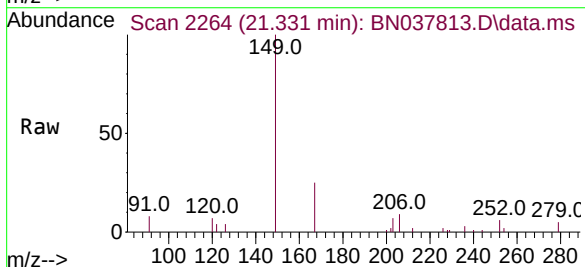
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

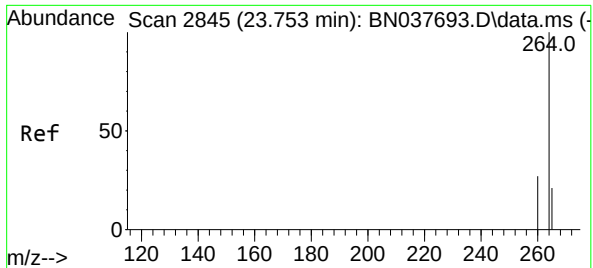
Tgt Ion:	228	Resp:	12256
Ion Ratio	Lower	Upper	
228	100		
226	30.3	23.5	35.3
229	19.9	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.379 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:	149	Resp:	3318
Ion Ratio	Lower	Upper	
149	100		
167	26.8	20.8	31.2
279	4.2	3.3	4.9

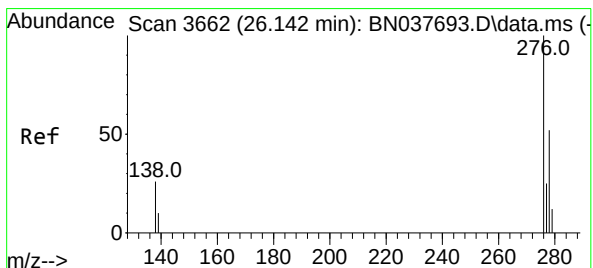
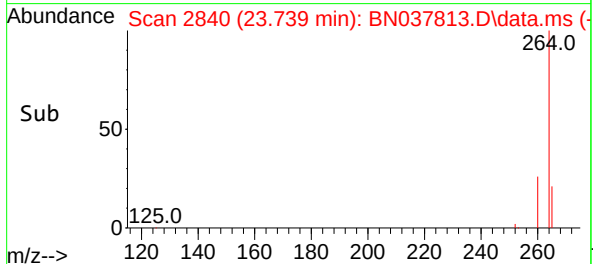
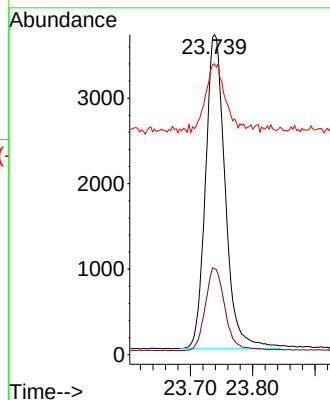
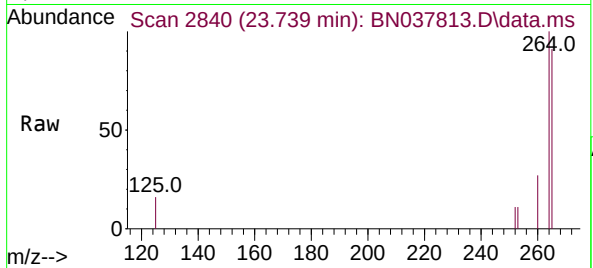




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.739 min Scan# 2840
Delta R.T. -0.015 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

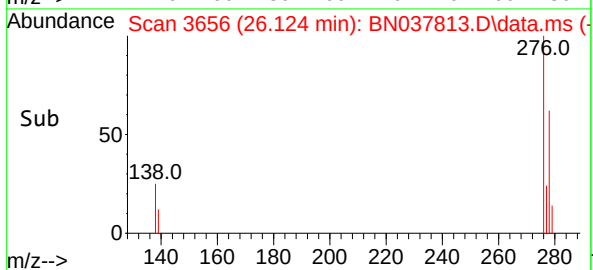
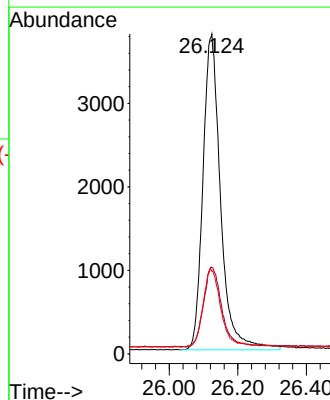
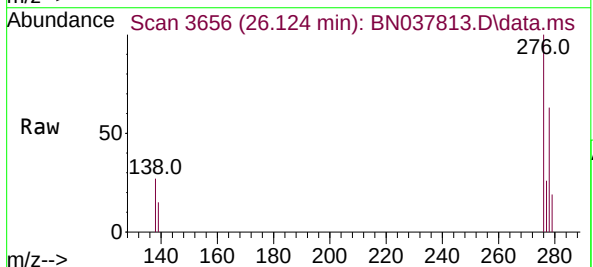
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

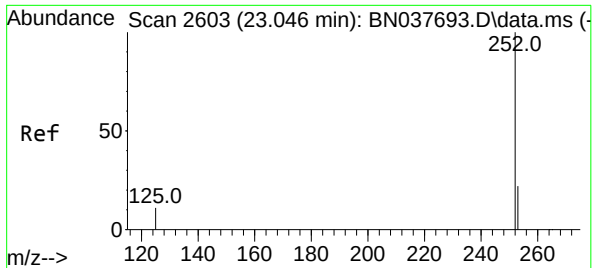
Tgt Ion	264	260	265
Resp:	8084		
Ion Ratio	100	26.9	90.9
Lower		21.8	39.4
Upper		32.8	59.2#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.398 ng
RT: 26.124 min Scan# 3656
Delta R.T. -0.018 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion	276	277
Resp:	13502	
Ion Ratio	100	24.9
Lower		20.1
Upper		30.1





#37

Benzo(b)fluoranthene

Concen: 0.397 ng

RT: 23.034 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037813.D

Acq: 19 Sep 2025 14:19

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

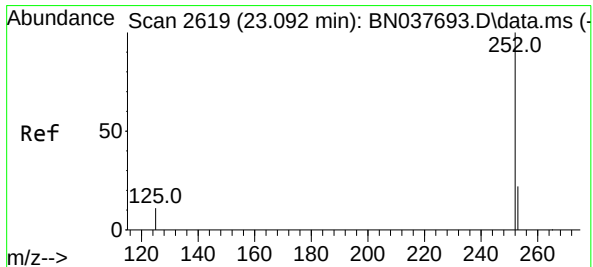
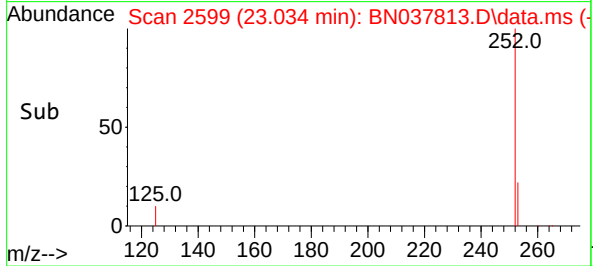
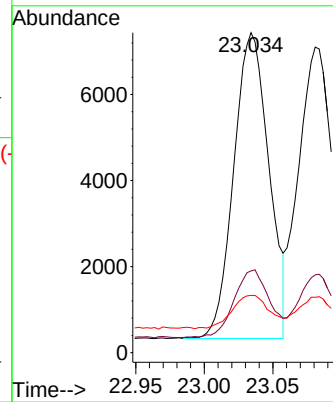
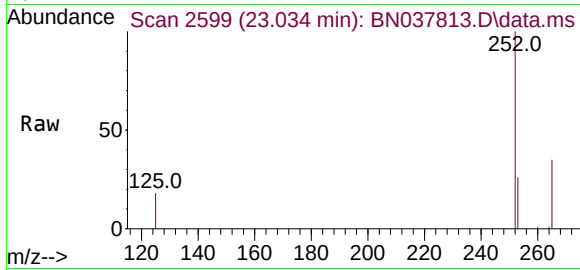
Tgt Ion:252 Resp: 12627

Ion Ratio Lower Upper

252 100

253 25.5 19.4 29.2

125 17.9 11.2 16.8#



#38

Benzo(k)fluoranthene

Concen: 0.384 ng

RT: 23.081 min Scan# 2615

Delta R.T. -0.012 min

Lab File: BN037813.D

Acq: 19 Sep 2025 14:19

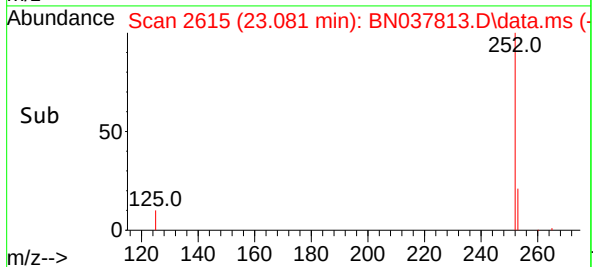
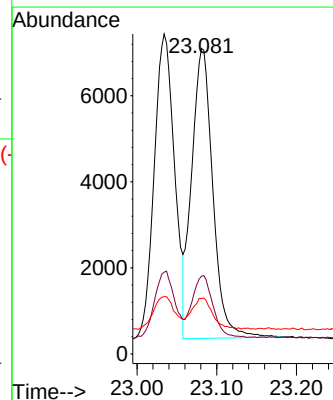
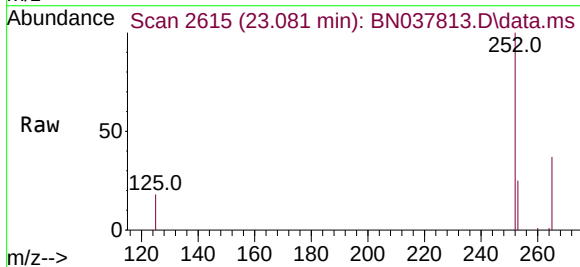
Tgt Ion:252 Resp: 12470

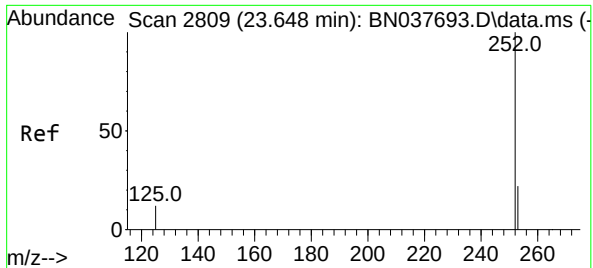
Ion Ratio Lower Upper

252 100

253 25.4 19.4 29.0

125 18.1 11.6 17.4#





#39

Benzo(a)pyrene

Concen: 0.384 ng

RT: 23.633 min Scan# 2804

Delta R.T. -0.015 min

Lab File: BN037813.D

Acq: 19 Sep 2025 14:19

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

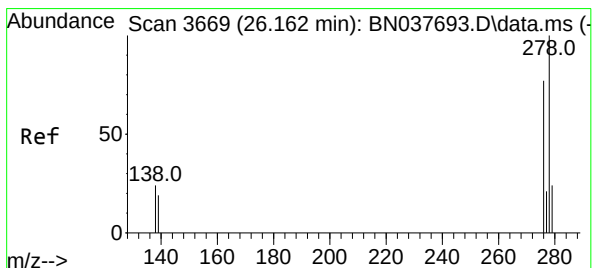
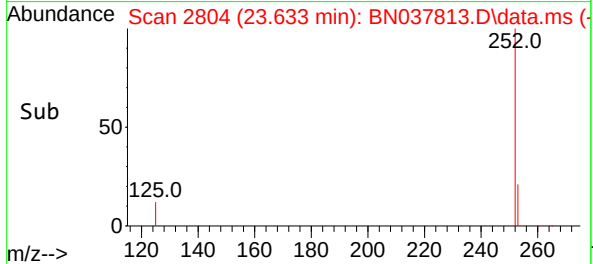
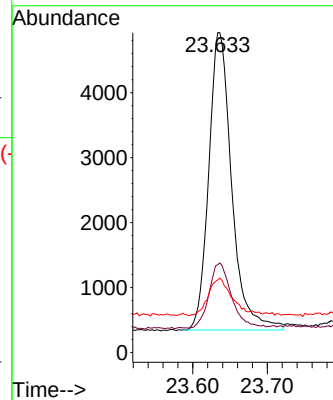
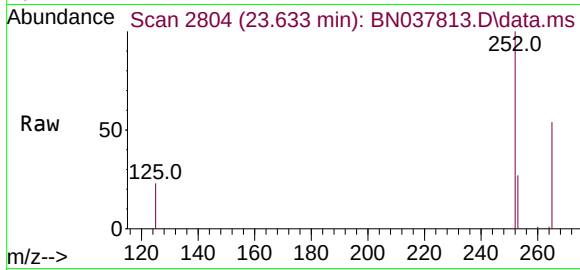
Tgt Ion:252 Resp: 9793

Ion Ratio Lower Upper

252 100

253 27.5 20.8 31.2

125 22.7 13.9 20.9#



#40

Dibenzo(a,h)anthracene

Concen: 0.376 ng

RT: 26.139 min Scan# 3661

Delta R.T. -0.023 min

Lab File: BN037813.D

Acq: 19 Sep 2025 14:19

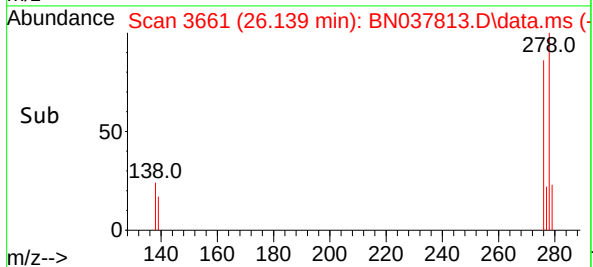
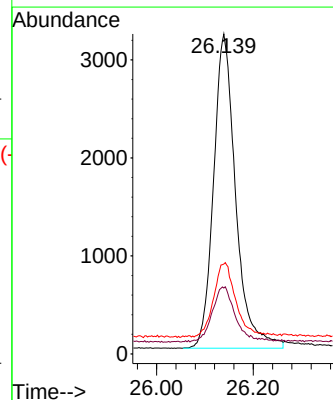
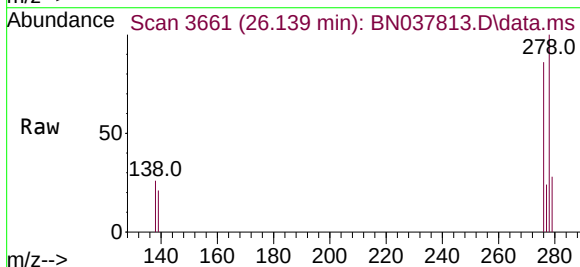
Tgt Ion:278 Resp: 10208

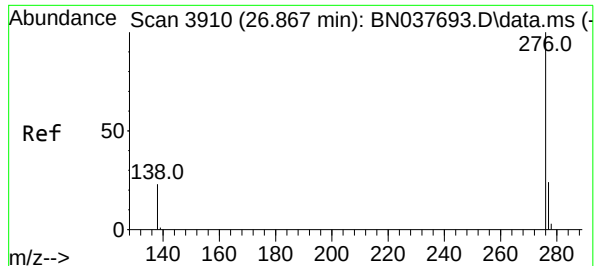
Ion Ratio Lower Upper

278 100

139 20.6 17.8 26.6

279 28.1 22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 0.395 ng

RT: 26.846 min Scan# 39

Delta R.T. -0.020 min

Lab File: BN037813.D

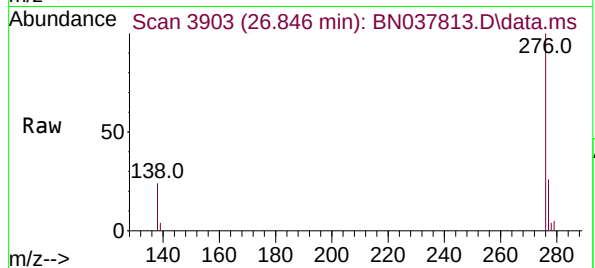
Acq: 19 Sep 2025 14:19

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



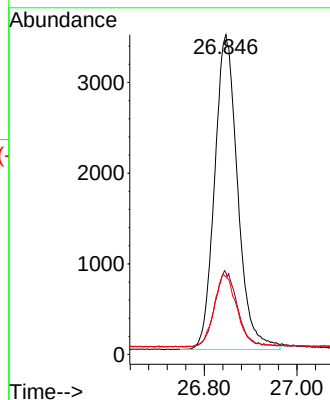
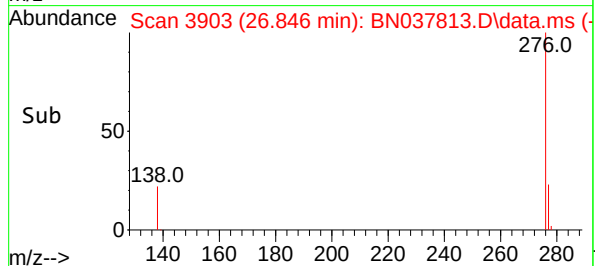
Tgt Ion:276 Resp: 12010

Ion Ratio Lower Upper

276 100

277 25.6 20.6 31.0

138 24.3 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
 Data File : BN037813.D
 Acq On : 19 Sep 2025 14:19
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 19 15:09:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
2	1,4-Dioxane	0.417	0.410	1.7	94	0.00
3	n-Nitrosodimethylamine	0.544	0.482	11.4	82	0.00
4 S	2-Fluorophenol	0.918	0.947	-3.2	102	0.00
5 S	Phenol-d6	1.191	1.079	9.4	90	0.00
6	bis(2-Chloroethyl)ether	1.064	0.997	6.3	90	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	94	-0.01
8 S	Nitrobenzene-d5	0.293	0.284	3.1	94	-0.01
9	Naphthalene	1.093	1.055	3.5	92	-0.01
10	Hexachlorobutadiene	0.198	0.193	2.5	92	-0.02
11 SURR	2-Methylnaphthalene-d10	0.530	0.473	10.8	89	-0.02
12	2-Methylnaphthalene	0.676	0.625	7.5	89	-0.02
13 I	Acenaphthene-d10	1.000	1.000	0.0	90	-0.01
14 S	2,4,6-Tribromophenol	0.104	0.121	-16.3	108	-0.01
15 S	2-Fluorobiphenyl	1.673	1.589	5.0	87	-0.01
16	Acenaphthylene	1.834	1.643	10.4	83	-0.01
17	Acenaphthene	1.240	1.149	7.3	85	-0.01
18	Fluorene	1.502	1.334	11.2	83	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	86	0.00
20	4,6-Dinitro-2-methylphenol	0.037	0.032	13.5	83	-0.01
21	4-Bromophenyl-phenylether	0.261	0.238	8.8	81	-0.01
22	Hexachlorobenzene	0.300	0.312	-4.0	91	-0.01
23	Atrazine	0.166	0.151	9.0	86	-0.01
24	Pentachlorophenol	0.087	0.101	-16.1	115	-0.01
25	Phenanthrene	1.259	1.201	4.6	84	-0.01
26	Anthracene	1.116	1.032	7.5	83	-0.01
27 SURR	Fluoranthene-d10	1.004	0.897	10.7	82	0.00
28	Fluoranthene	1.381	1.286	6.9	84	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	90	0.00
30	Pyrene	1.566	1.455	7.1	84	0.00
31 S	Terphenyl-d14	0.812	0.730	10.1	82	0.00
32	Benzo(a)anthracene	1.395	1.279	8.3	86	0.00
33	Chrysene	1.496	1.448	3.2	87	0.00
34	Bis(2-ethylhexyl)phthalate	0.414	0.392	5.3	94	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	90	-0.01
36	Indeno(1,2,3-cd)pyrene	1.681	1.670	0.7	98	-0.02
37	Benzo(b)fluoranthene	1.575	1.562	0.8	91	-0.01
38	Benzo(k)fluoranthene	1.606	1.543	3.9	91	-0.01
39 C	Benzo(a)pyrene	1.261	1.211	4.0	91	-0.01
40	Dibenzo(a,h)anthracene	1.342	1.263	5.9	94	-0.02
41	Benzo(g,h,i)perylene	1.506	1.486	1.3	92	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
 Data File : BN037813.D
 Acq On : 19 Sep 2025 14:19
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 19 15:09:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	96	0.00
2	1,4-Dioxane	0.400	0.394	1.5	94	0.00
3	n-Nitrosodimethylamine	0.400	0.354	11.5	82	0.00
4 S	2-Fluorophenol	0.400	0.412	-3.0	102	0.00
5 S	Phenol-d6	0.400	0.362	9.5	90	0.00
6	bis(2-Chloroethyl)ether	0.400	0.375	6.3	90	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	94	-0.01
8 S	Nitrobenzene-d5	0.400	0.388	3.0	94	-0.01
9	Naphthalene	0.400	0.386	3.5	92	-0.01
10	Hexachlorobutadiene	0.400	0.391	2.3	92	-0.02
11 SURR	2-Methylnaphthalene-d10	0.400	0.357	10.8	89	-0.02
12	2-Methylnaphthalene	0.400	0.369	7.8	89	-0.02
13 I	Acenaphthene-d10	0.400	0.400	0.0	90	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.463	-15.8	108	-0.01
15 S	2-Fluorobiphenyl	0.400	0.380	5.0	87	-0.01
16	Acenaphthylene	0.400	0.358	10.5	83	-0.01
17	Acenaphthene	0.400	0.370	7.5	85	-0.01
18	Fluorene	0.400	0.355	11.3	83	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	86	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.346	13.5	83	-0.01
21	4-Bromophenyl-phenylether	0.400	0.365	8.8	81	-0.01
22	Hexachlorobenzene	0.400	0.416	-4.0	91	-0.01
23	Atrazine	0.400	0.365	8.8	86	-0.01
24	Pentachlorophenol	0.400	0.462	-15.5	115	-0.01
25	Phenanthrene	0.400	0.381	4.8	84	-0.01
26	Anthracene	0.400	0.370	7.5	83	-0.01
27 SURR	Fluoranthene-d10	0.400	0.357	10.8	82	0.00
28	Fluoranthene	0.400	0.372	7.0	84	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	90	0.00
30	Pyrene	0.400	0.372	7.0	84	0.00
31 S	Terphenyl-d14	0.400	0.360	10.0	82	0.00
32	Benzo(a)anthracene	0.400	0.367	8.3	86	0.00
33	Chrysene	0.400	0.387	3.3	87	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.379	5.3	94	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	90	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.398	0.5	98	-0.02
37	Benzo(b)fluoranthene	0.400	0.397	0.8	91	-0.01
38	Benzo(k)fluoranthene	0.400	0.384	4.0	91	-0.01
39 C	Benzo(a)pyrene	0.400	0.384	4.0	91	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.376	6.0	94	-0.02
41	Benzo(g,h,i)perylene	0.400	0.395	1.3	92	-0.02

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>AECO15</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3095</u>
Instrument ID:	<u>BNA_N</u>	Calibration Date/Time:	<u>09/20/2025 00:39</u>
Lab File ID:	<u>BN037830.D</u>	Init. Calib. Date(s):	<u>09/11/2025 09/11/2025</u>
EPA Sample No.:	<u>SSTDCCC0.4EC</u>	Init. Calib. Time(s):	<u>09:56 13:33</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.471		-11.1	50.0
Fluoranthene-d10	1.004	0.971		-3.3	50.0
2-Fluorophenol	0.918	0.830		-9.6	50.0
Phenol-d6	1.191	1.088		-8.6	50.0
Nitrobenzene-d5	0.293	0.282		-3.8	50.0
2-Fluorobiphenyl	1.673	1.621		-3.1	50.0
2,4,6-Tribromophenol	0.104	0.105		1.0	50.0
Terphenyl-d14	0.812	0.741		-8.7	50.0
1,4-Dioxane	0.417	0.395		-5.3	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
 Data File : BN037830.D
 Acq On : 20 Sep 2025 00:39
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Sep 20 01:04:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

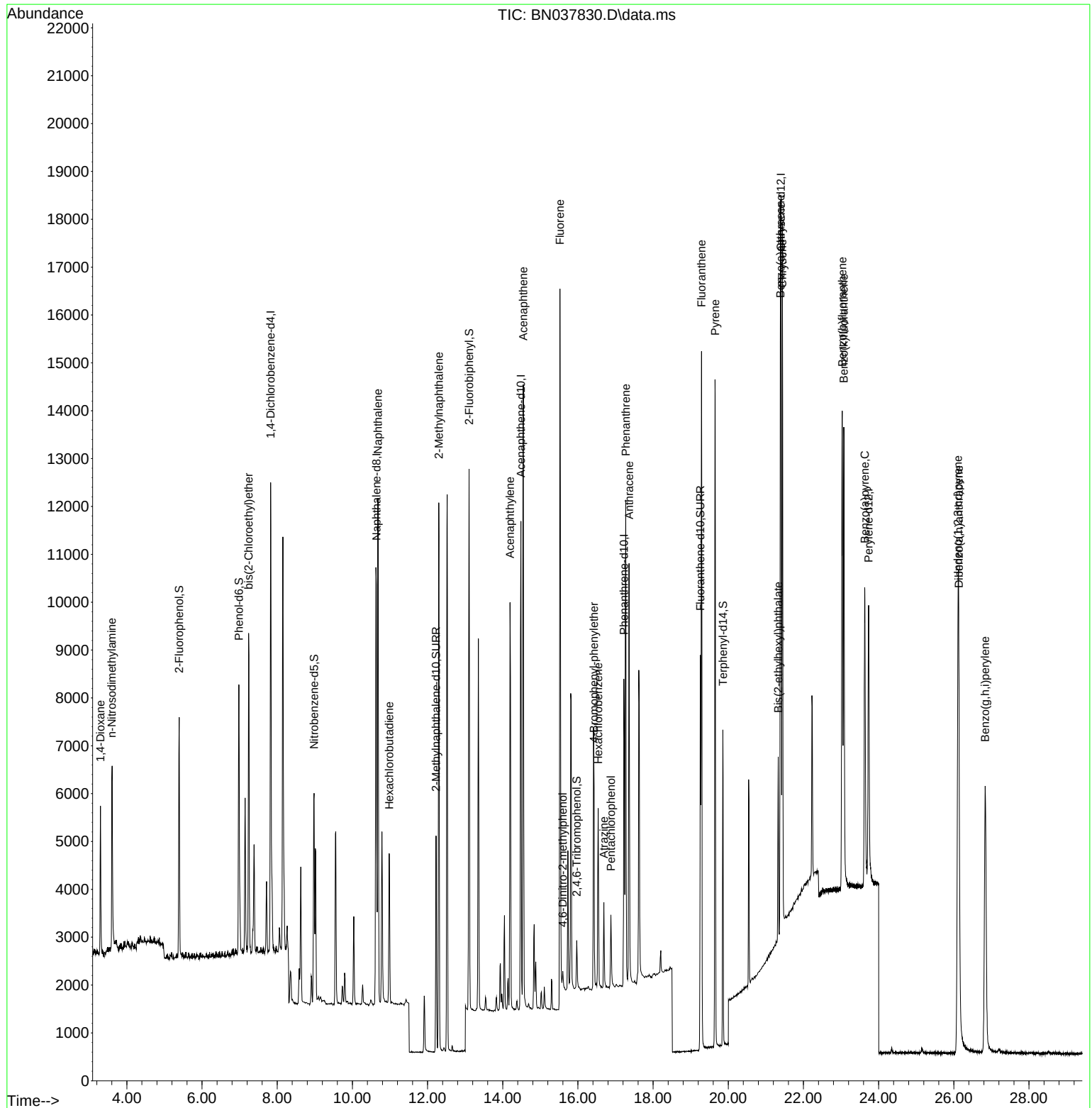
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.826	152	4763	0.400	ng	-0.01
7) Naphthalene-d8	10.637	136	12882	0.400	ng	#-0.01
13) Acenaphthene-d10	14.484	164	5757	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	9339	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	8425	0.400	ng	#-0.02
35) Perylene-d12	23.733	264	8348	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	3952	0.361	ng	0.00
5) Phenol-d6	6.981	99	5181	0.365	ng	0.00
8) Nitrobenzene-d5	8.982	82	3636	0.386	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	6061	0.355	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	607	0.404	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	9332	0.388	ng	-0.01
27) Fluoranthene-d10	19.257	212	9064	0.387	ng	-0.01
31) Terphenyl-d14	19.857	244	6240	0.365	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	1880	0.379	ng	98
3) n-Nitrosodimethylamine	3.601	42	2585	0.399	ng	97
6) bis(2-Chloroethyl)ether	7.241	93	4760	0.376	ng	98
9) Naphthalene	10.680	128	13409	0.381	ng	100
10) Hexachlorobutadiene	10.979	225	2479	0.389	ng	# 100
12) 2-Methylnaphthalene	12.299	142	8063	0.370	ng	99
16) Acenaphthylene	14.195	152	9766	0.370	ng	99
17) Acenaphthene	14.548	154	6828	0.382	ng	98
18) Fluorene	15.523	166	7620	0.352	ng	99
20) 4,6-Dinitro-2-methylph...	15.597	198	257	0.297	ng	# 79
21) 4-Bromophenyl-phenylether	16.429	248	2332	0.383	ng	98
22) Hexachlorobenzene	16.540	284	2969	0.424	ng	99
23) Atrazine	16.689	200	1399	0.361	ng	96
24) Pentachlorophenol	16.876	266	830	0.408	ng	95
25) Phenanthrene	17.273	178	11247	0.383	ng	99
26) Anthracene	17.360	178	9601	0.369	ng	99
28) Fluoranthene	19.290	202	12968	0.402	ng	100
30) Pyrene	19.647	202	12812	0.388	ng	100
32) Benzo(a)anthracene	21.384	228	10867	0.370	ng	98
33) Chrysene	21.438	228	12584	0.399	ng	98
34) Bis(2-ethylhexyl)phtha...	21.331	149	3605	0.414	ng	99
36) Indeno(1,2,3-cd)pyrene	26.110	276	14316	0.408	ng	99
37) Benzo(b)fluoranthene	23.031	252	13207	0.402	ng	# 94
38) Benzo(k)fluoranthene	23.075	252	13139	0.392	ng	# 95
39) Benzo(a)pyrene	23.630	252	10193	0.387	ng	# 92
40) Dibenzo(a,h)anthracene	26.133	278	11121	0.397	ng	99
41) Benzo(g,h,i)perylene	26.835	276	12456	0.396	ng	99

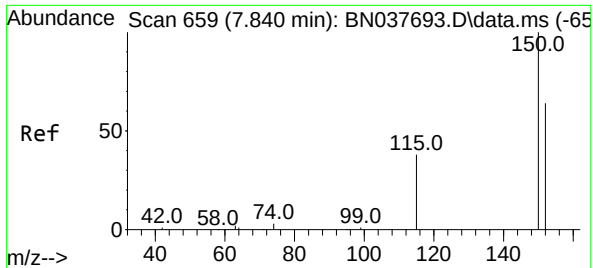
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037830.D
Acq On : 20 Sep 2025 00:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

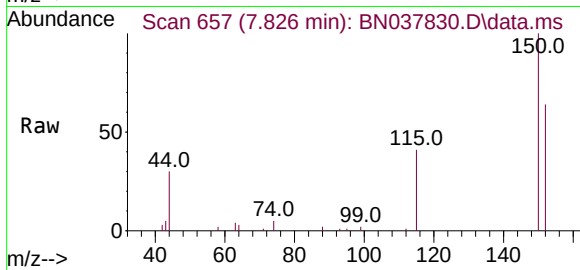
Quant Time: Sep 20 01:04:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



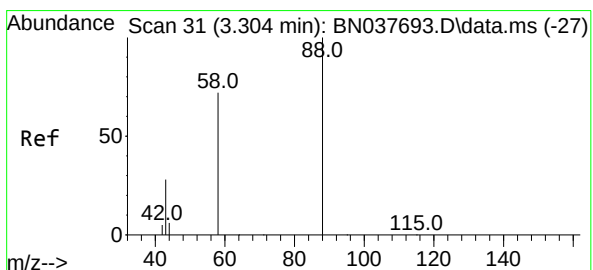
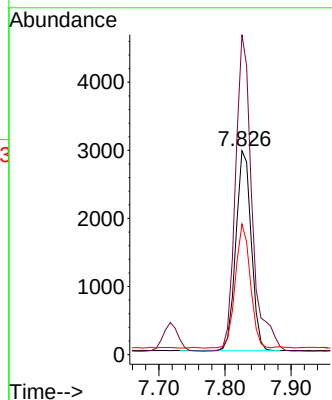
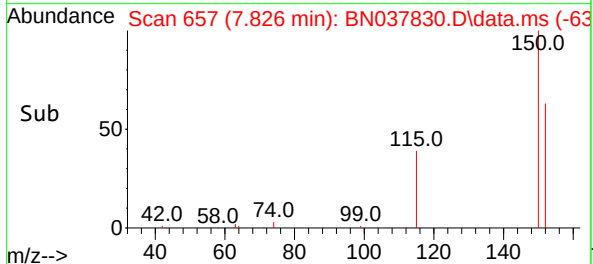


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.826 min Scan# 61
 Delta R.T. -0.014 min
 Lab File: BN037830.D
 Acq: 20 Sep 2025 00:39

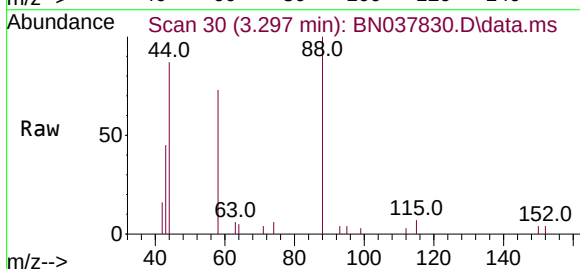
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 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC



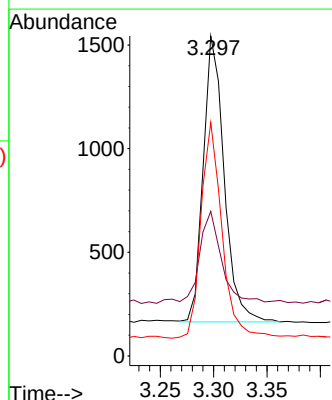
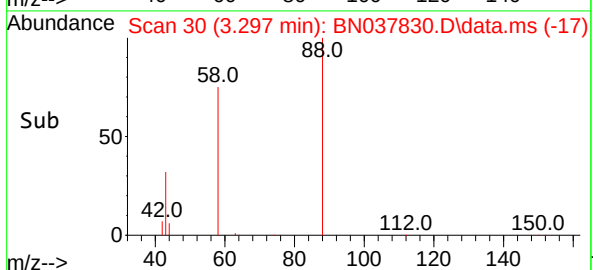
Tgt Ion:152 Resp: 4763
 Ion Ratio Lower Upper
 152 100
 150 156.9 124.5 186.7
 115 64.0 49.2 73.8

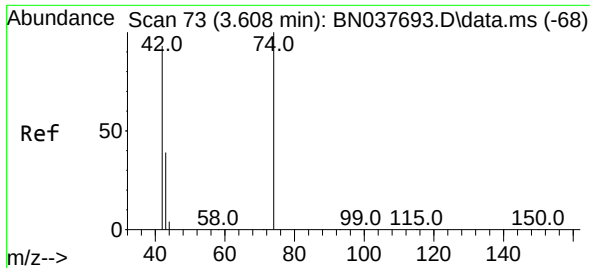


#2
 1,4-Dioxane
 Concen: 0.379 ng
 RT: 3.297 min Scan# 30
 Delta R.T. -0.007 min
 Lab File: BN037830.D
 Acq: 20 Sep 2025 00:39



Tgt Ion: 88 Resp: 1880
 Ion Ratio Lower Upper
 88 100
 43 34.9 26.8 40.2
 58 75.7 61.9 92.9

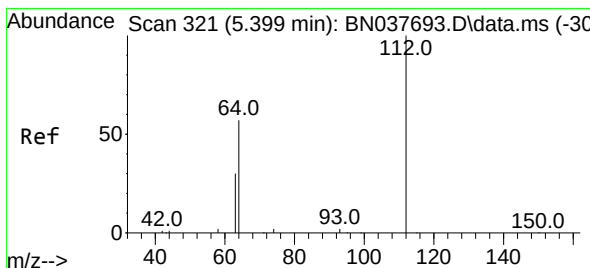
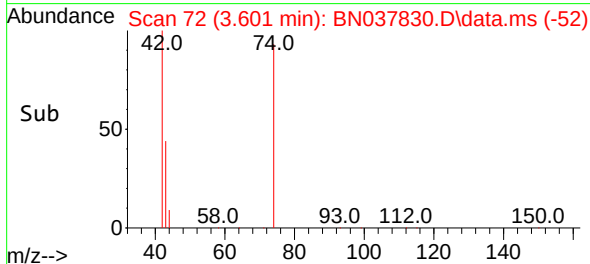
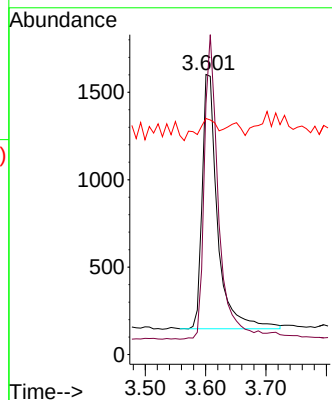
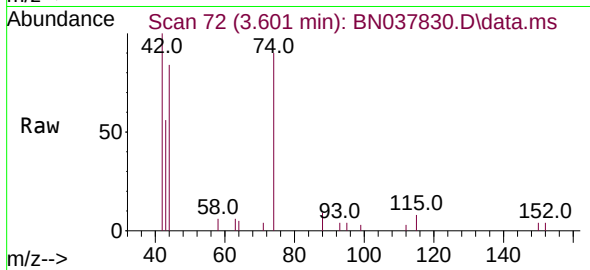




#3
n-Nitrosodimethylamine
Concen: 0.399 ng
RT: 3.601 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

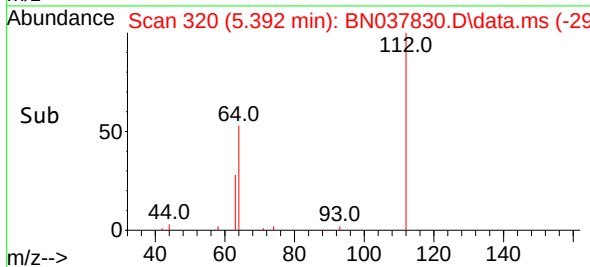
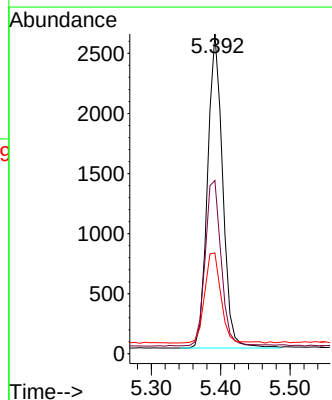
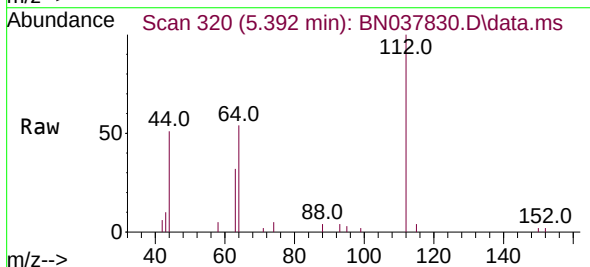
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

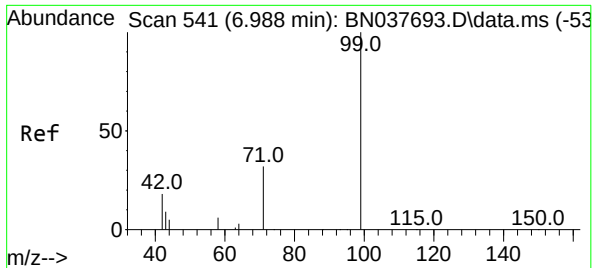
Tgt Ion: 42 Resp: 2585
Ion Ratio Lower Upper
42 100
74 110.6 86.0 129.0
44 10.4 8.4 12.6



#4
2-Fluorophenol
Concen: 0.361 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion: 112 Resp: 3952
Ion Ratio Lower Upper
112 100
64 55.7 44.9 67.3
63 30.9 24.7 37.1

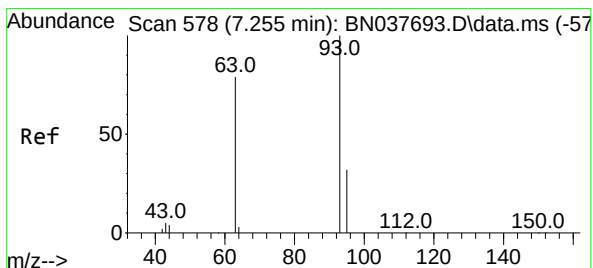
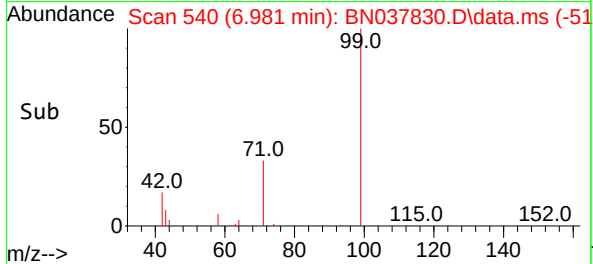
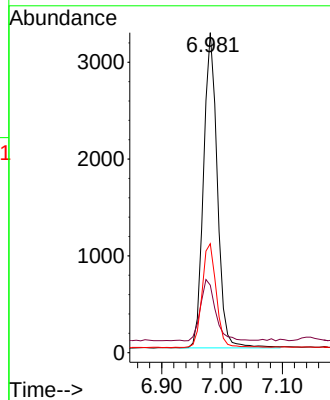
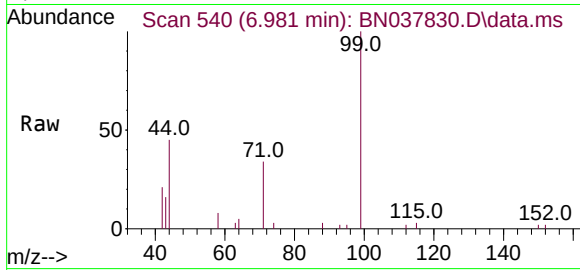




#5
Phenol-d6
Concen: 0.365 ng
RT: 6.981 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

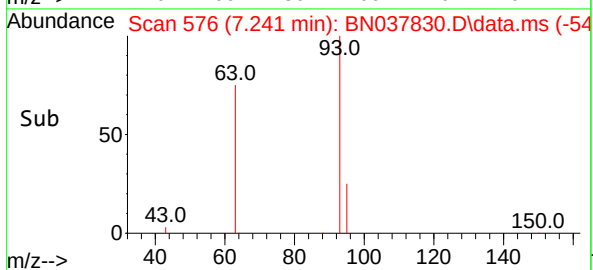
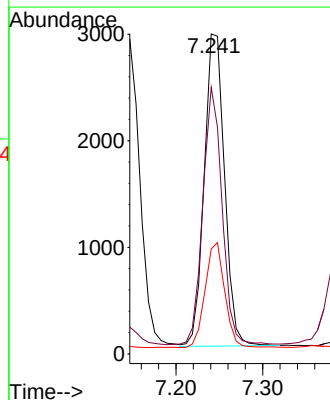
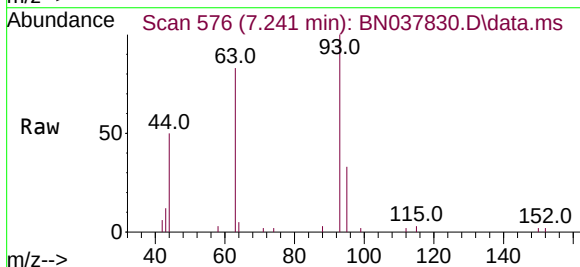
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

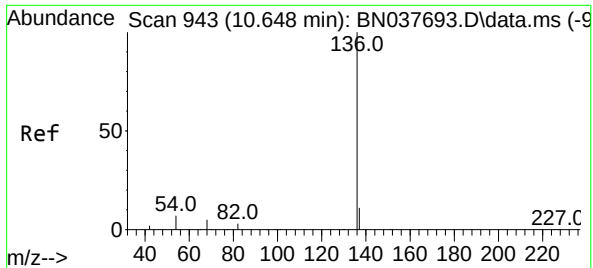
Tgt Ion: 99 Resp: 5181
Ion Ratio Lower Upper
99 100
42 21.1 16.6 24.8
71 34.1 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.376 ng
RT: 7.241 min Scan# 576
Delta R.T. -0.014 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion: 93 Resp: 4760
Ion Ratio Lower Upper
93 100
63 78.1 60.6 90.8
95 32.8 26.0 39.0

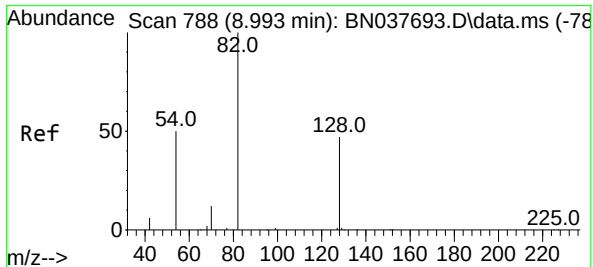
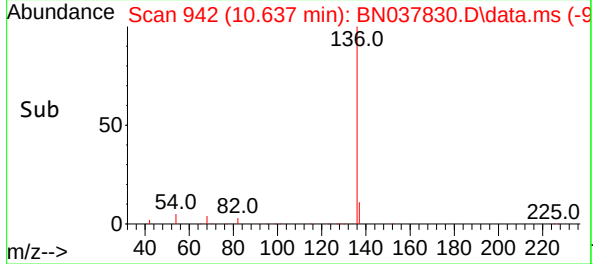
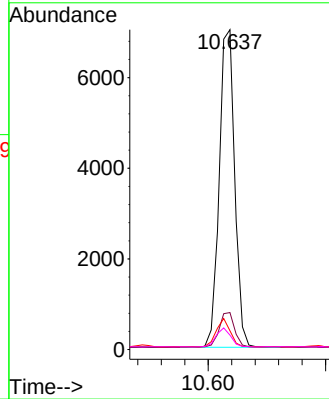
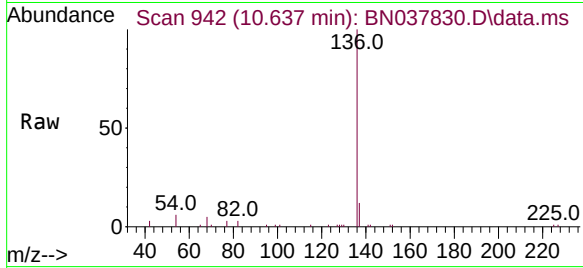




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

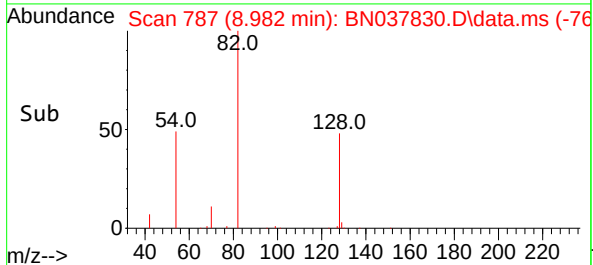
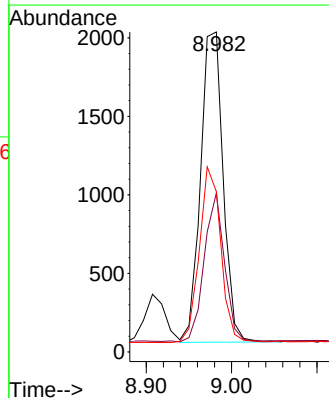
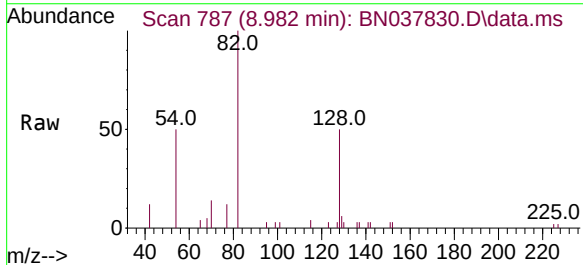
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

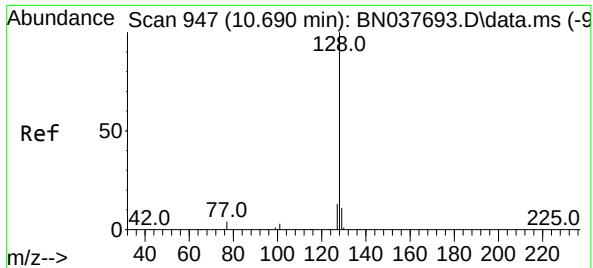
Tgt Ion:	136	Resp:	12882
Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.1	13.7
54	5.9	6.3	9.5#
68	4.5	5.0	7.4#



#8
Nitrobenzene-d5
Concen: 0.386 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:	82	Resp:	3636
Ion	Ratio	Lower	Upper
82	100		
128	49.7	38.3	57.5
54	50.1	41.4	62.2

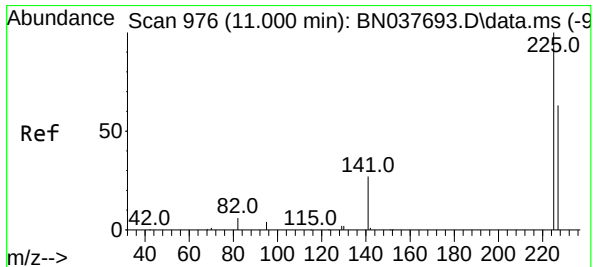
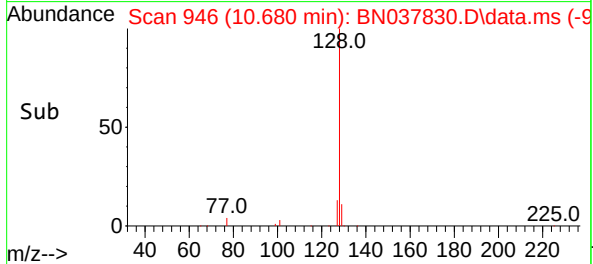
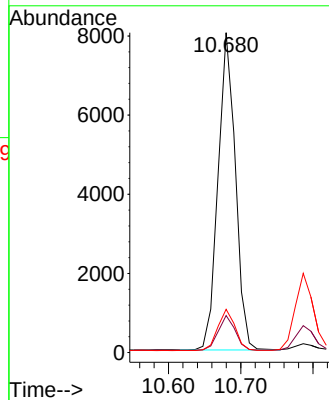
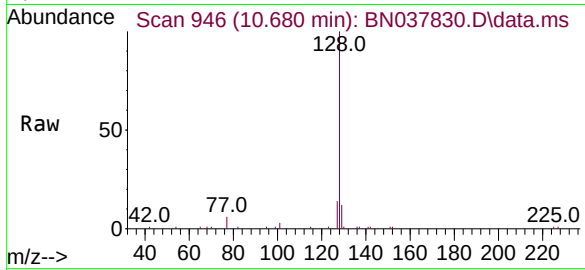




#9
Naphthalene
Concen: 0.381 ng
RT: 10.680 min Scan# 946
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

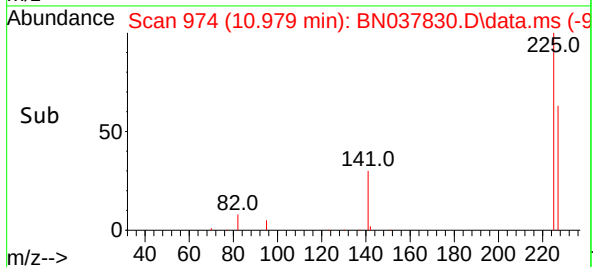
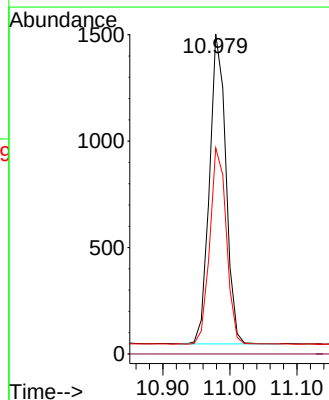
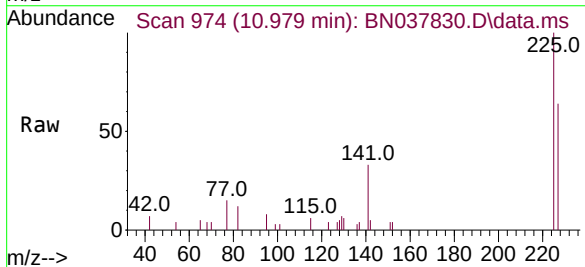
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

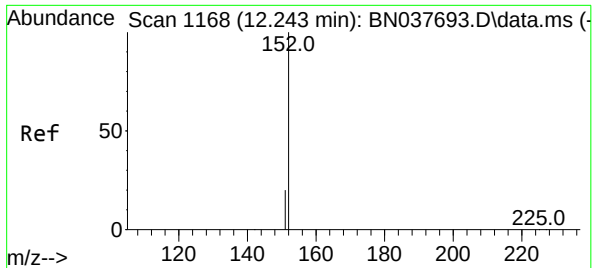
Tgt Ion:	128	Resp:	13409
Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.1	13.7
127	13.5	10.9	16.3



#10
Hexachlorobutadiene
Concen: 0.389 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.021 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:	225	Resp:	2479
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	50.9	76.3

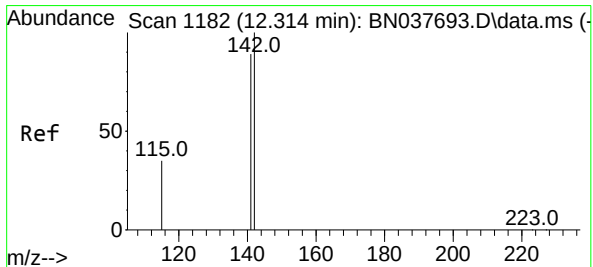
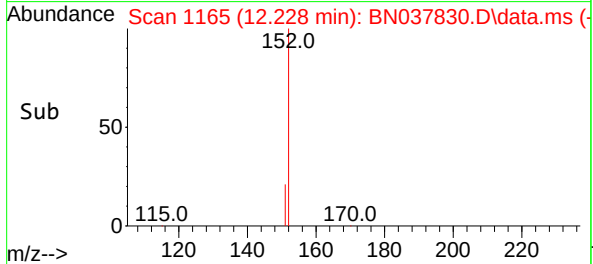
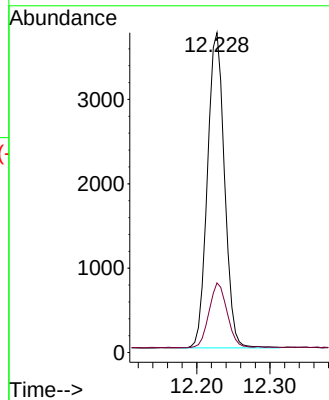
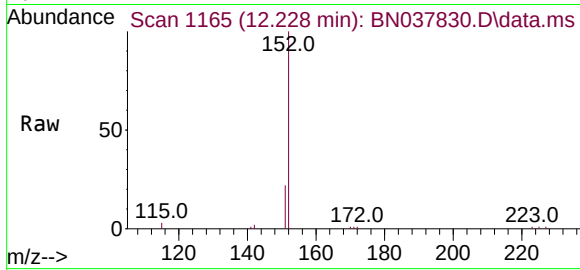




#11
2-Methylnaphthalene-d10
Concen: 0.355 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

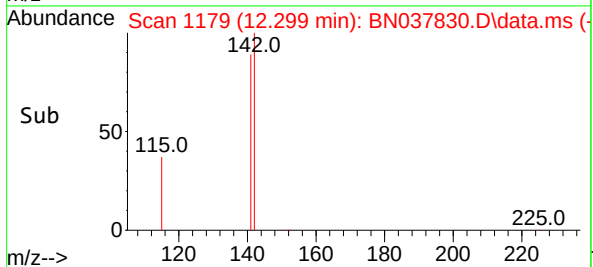
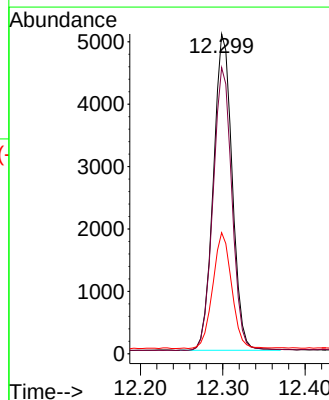
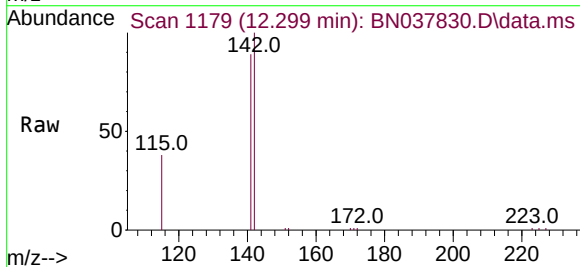
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

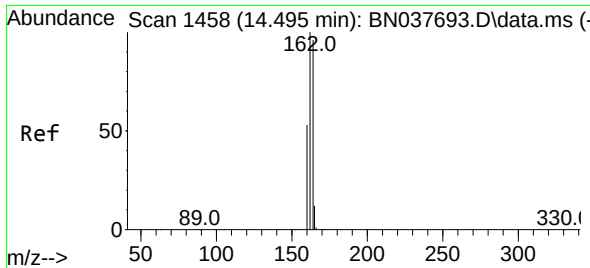
Tgt Ion:152 Resp: 6061
Ion Ratio Lower Upper
152 100
151 21.8 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.370 ng
RT: 12.299 min Scan# 1179
Delta R.T. -0.015 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:142 Resp: 8063
Ion Ratio Lower Upper
142 100
141 89.5 71.6 107.4
115 37.9 28.6 43.0

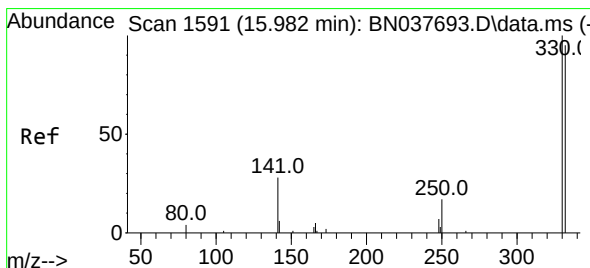
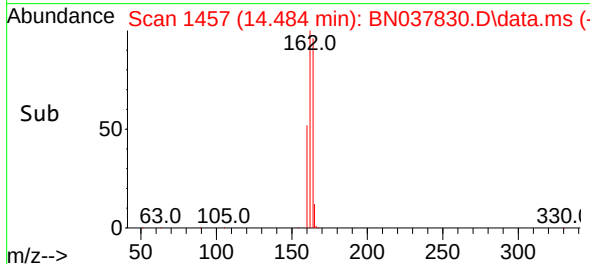
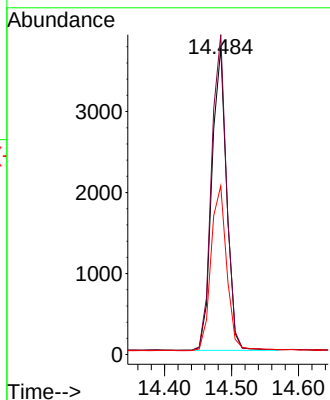
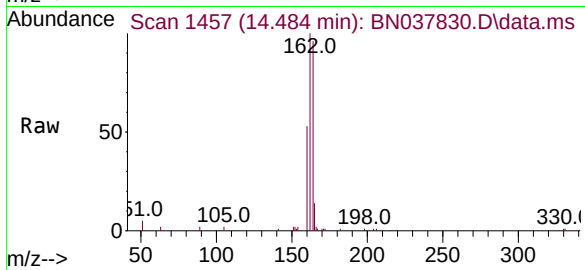




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

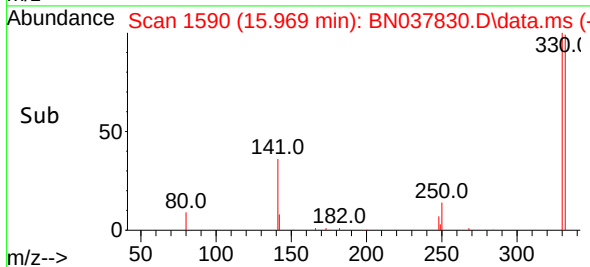
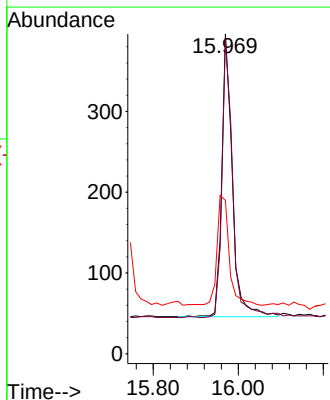
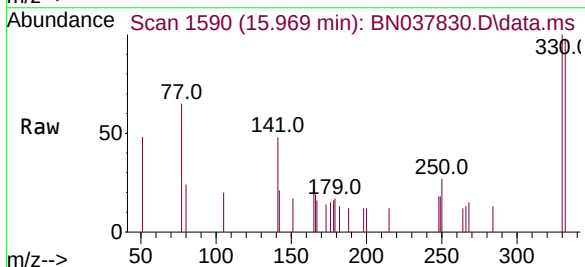
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

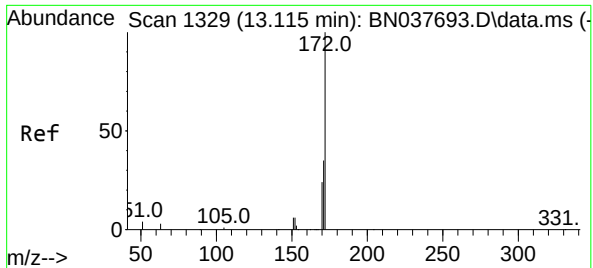
Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.3	83.1	124.7
160	55.0	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.404 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion	Ratio	Lower	Upper
330	100		
332	99.8	75.3	112.9
141	44.3	35.0	52.4

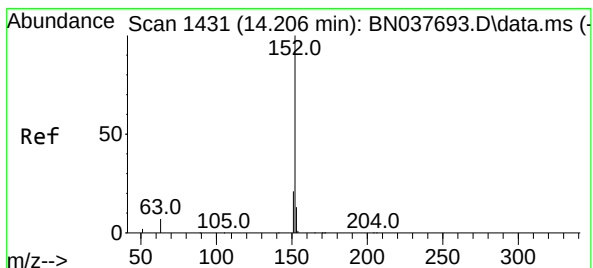
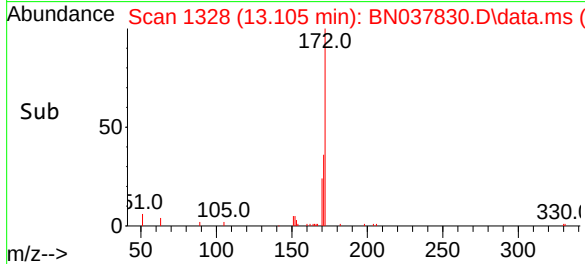
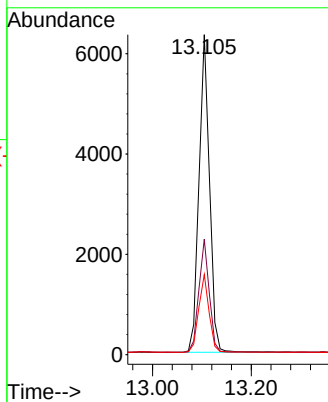
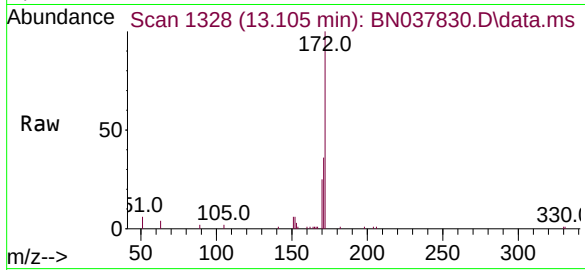




#15
2-Fluorobiphenyl
Concen: 0.388 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

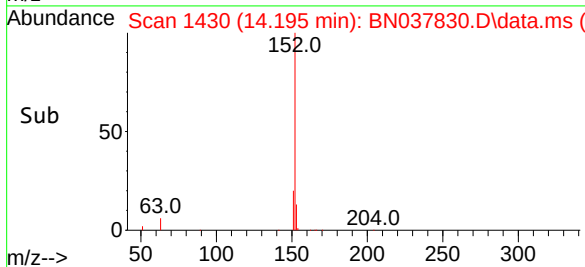
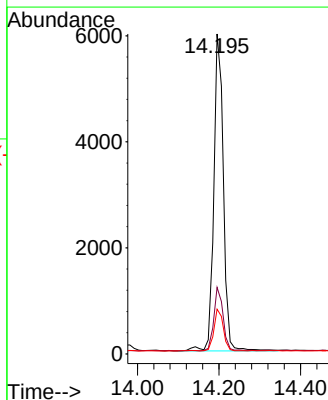
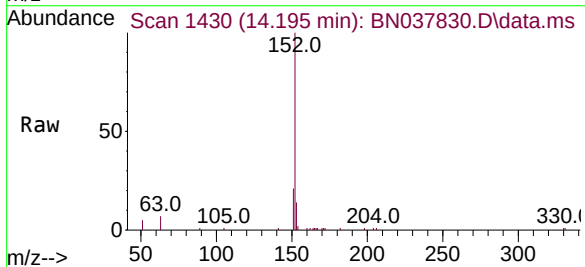
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

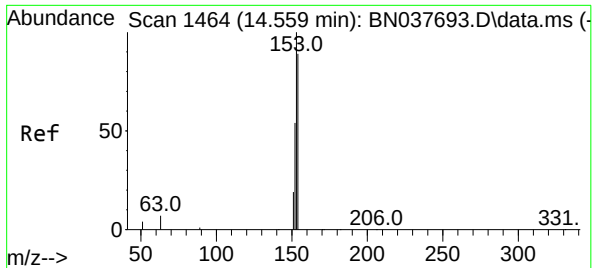
Tgt Ion:172 Resp: 9332
Ion Ratio Lower Upper
172 100
171 36.1 28.6 43.0
170 25.0 19.8 29.8



#16
Acenaphthylene
Concen: 0.370 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:152 Resp: 9766
Ion Ratio Lower Upper
152 100
151 19.4 16.2 24.2
153 12.8 10.4 15.6

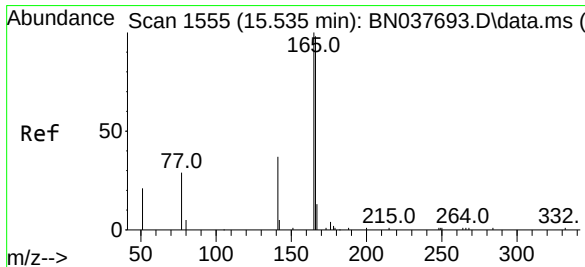
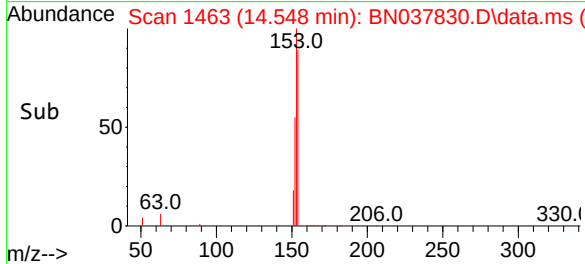
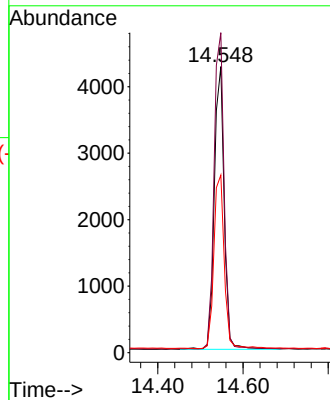
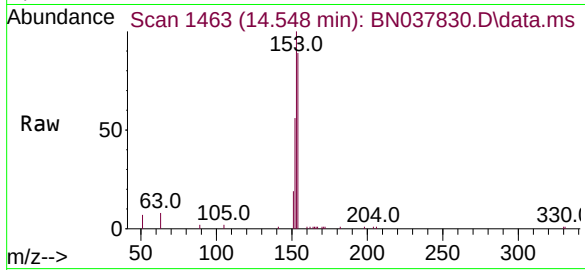




#17
Acenaphthene
Concen: 0.382 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

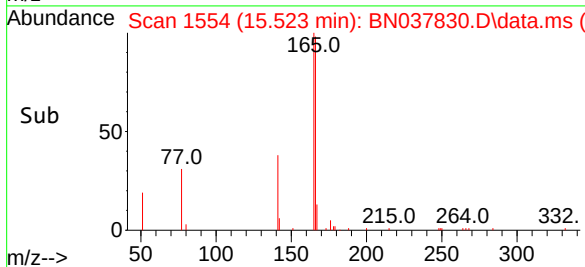
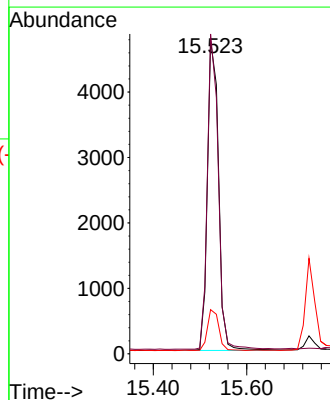
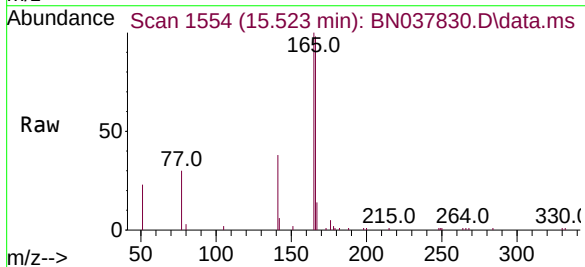
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

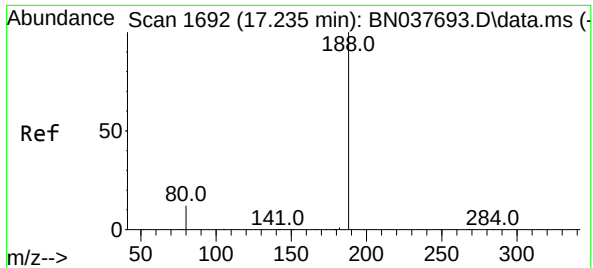
Tgt Ion:154 Resp: 6828
Ion Ratio Lower Upper
154 100
153 113.4 89.8 134.8
152 65.3 50.2 75.2



#18
Fluorene
Concen: 0.352 ng
RT: 15.523 min Scan# 1554
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:166 Resp: 7620
Ion Ratio Lower Upper
166 100
165 100.3 79.6 119.4
167 13.4 10.6 16.0

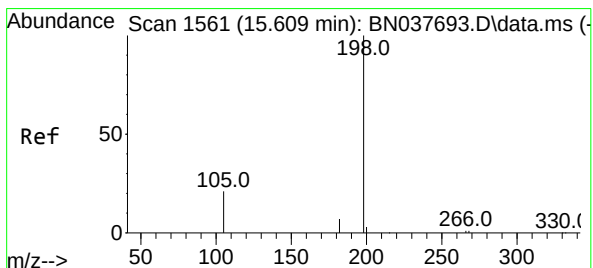
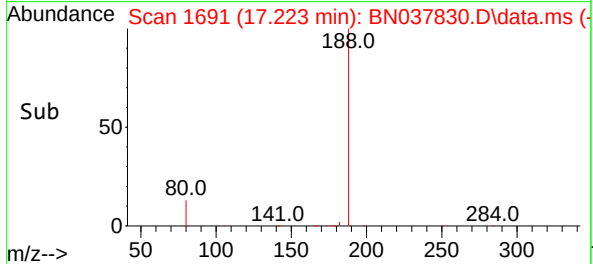
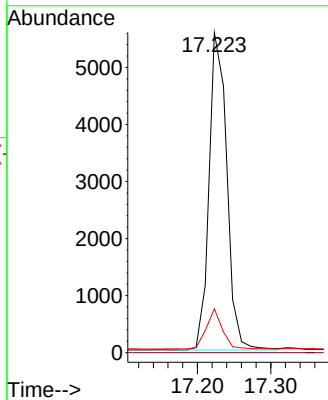
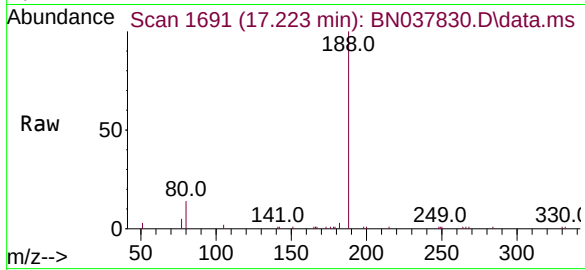




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

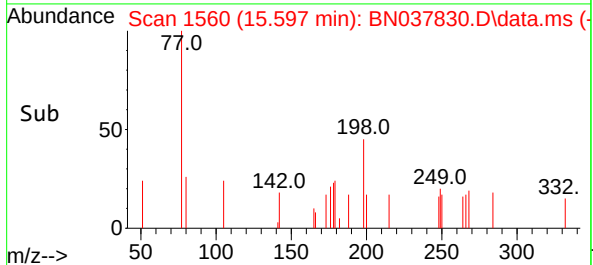
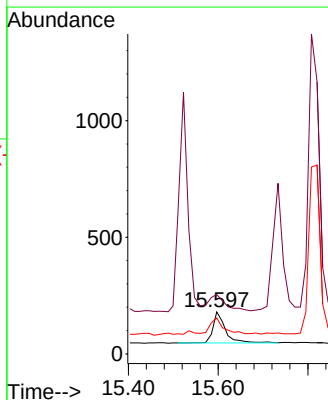
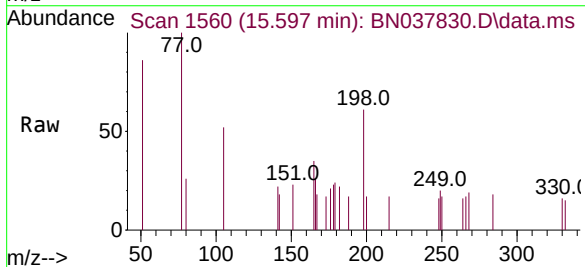
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

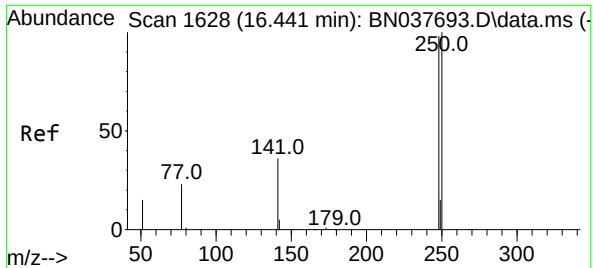
Tgt Ion:188 Resp: 9339
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.7 10.6 15.8



#20
4,6-Dinitro-2-methylphenol
Concen: 0.297 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:198 Resp: 257
Ion Ratio Lower Upper
198 100
51 141.1 95.1 142.7
105 85.6 53.8 80.6#

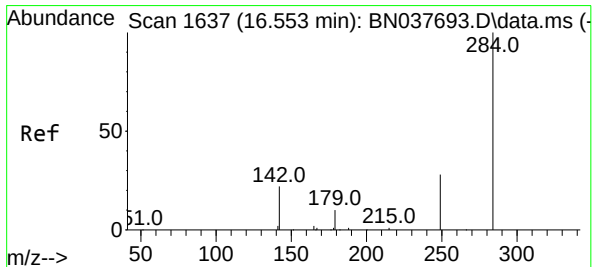
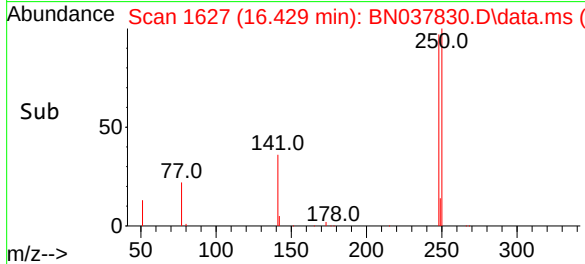
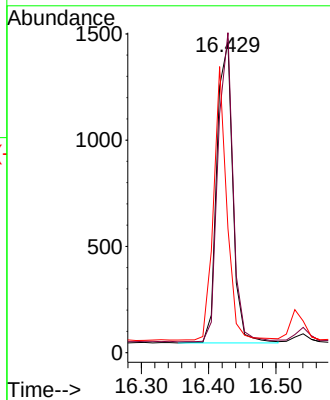
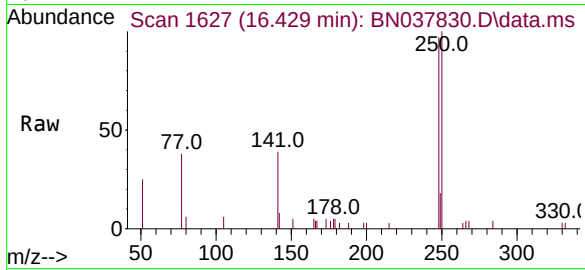




#21
4-Bromophenyl-phenylether
Concen: 0.383 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

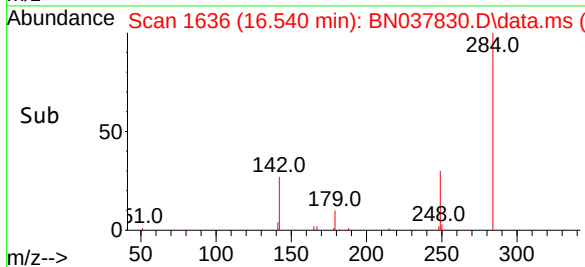
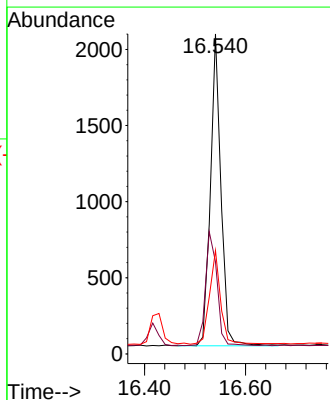
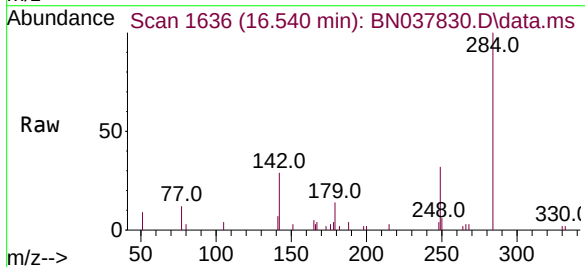
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

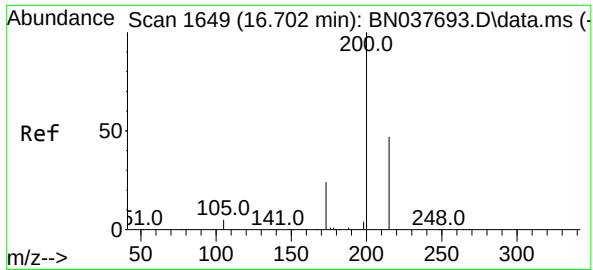
Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.2	81.5	122.3
141	40.0	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.424 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.6	30.9	46.3
249	31.5	24.8	37.2

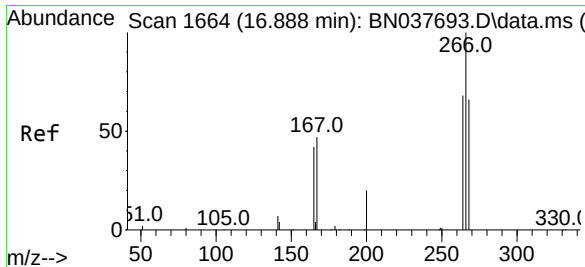
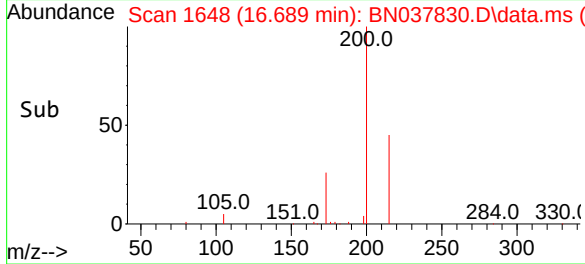
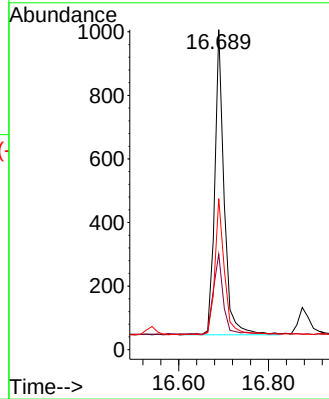
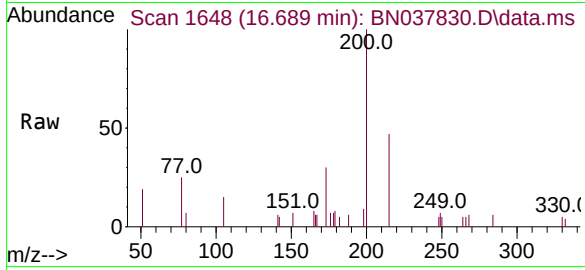




#23
Atrazine
Concen: 0.361 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

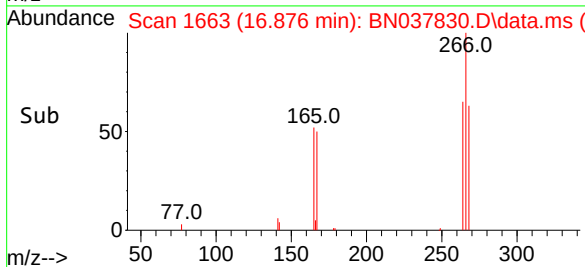
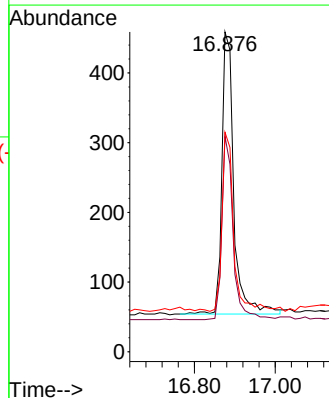
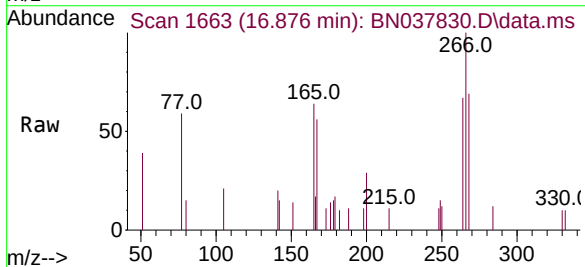
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

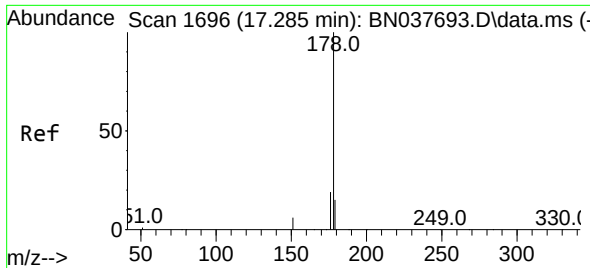
Tgt Ion:200 Resp: 1399
Ion Ratio Lower Upper
200 100
173 29.9 21.4 32.2
215 47.2 39.2 58.8



#24
Pentachlorophenol
Concen: 0.408 ng
RT: 16.876 min Scan# 1663
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:266 Resp: 830
Ion Ratio Lower Upper
266 100
264 61.1 51.6 77.4
268 61.9 53.2 79.8

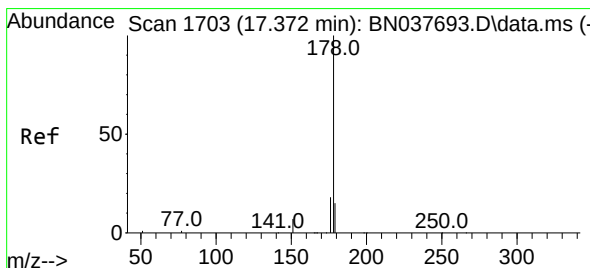
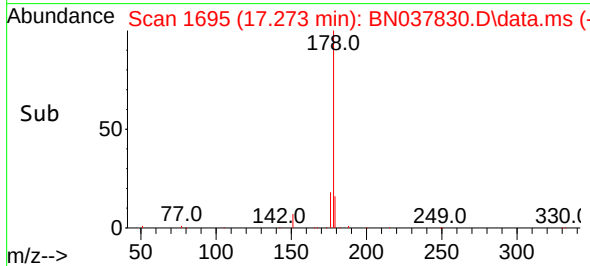
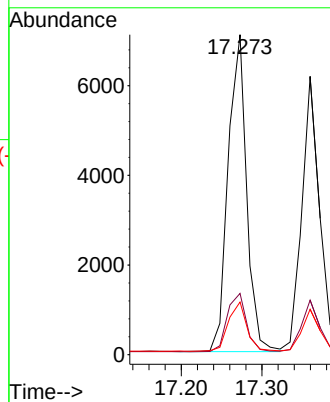
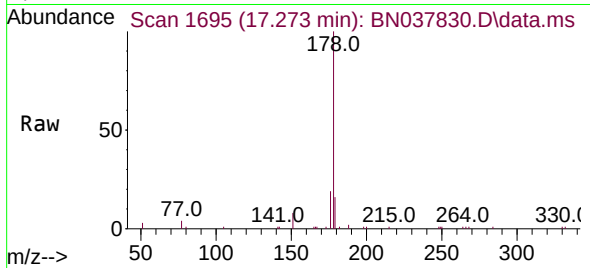




#25
Phenanthrene
Concen: 0.383 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

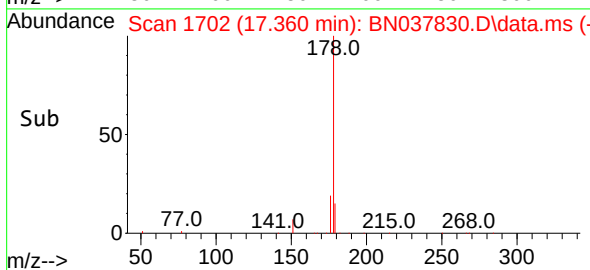
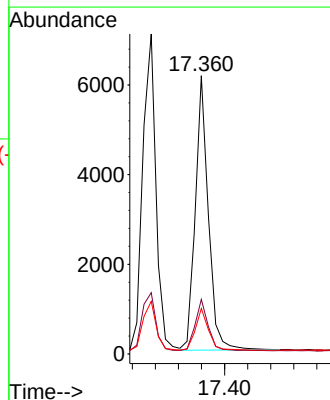
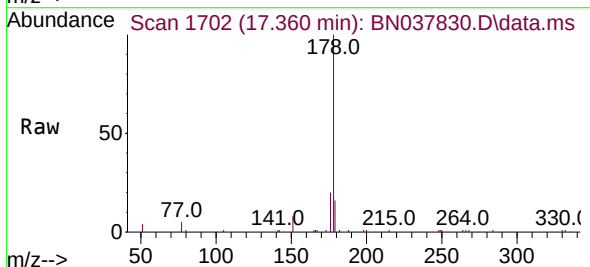
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

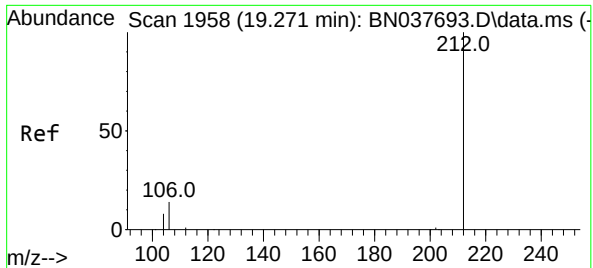
Tgt Ion:178 Resp: 11247
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.6 12.2 18.2



#26
Anthracene
Concen: 0.369 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:178 Resp: 9601
Ion Ratio Lower Upper
178 100
176 18.8 14.6 22.0
179 15.4 12.2 18.4

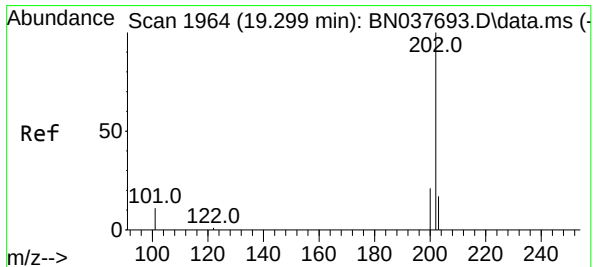
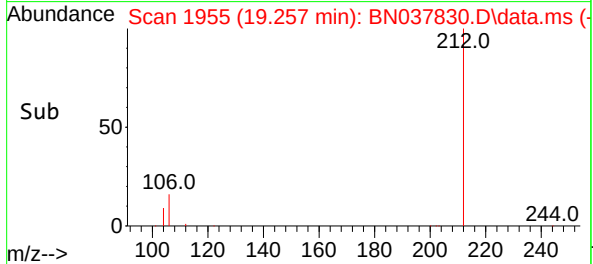
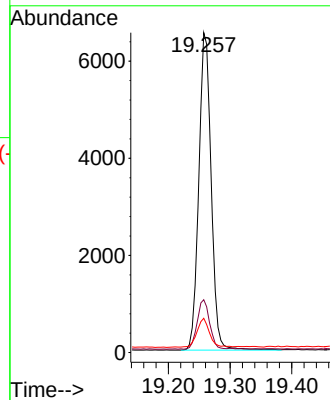
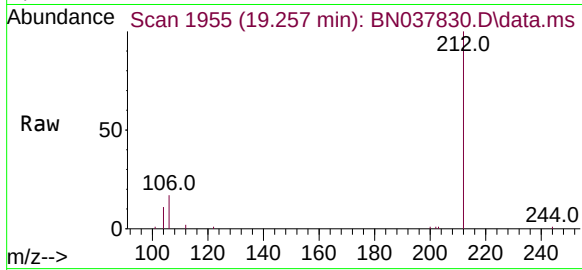




#27
Fluoranthene-d10
Concen: 0.387 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

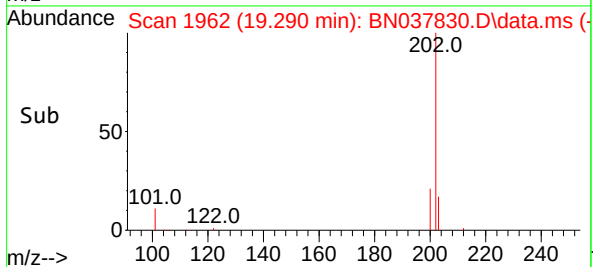
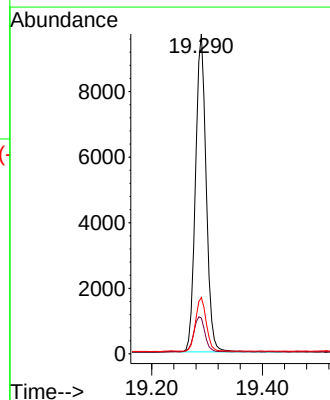
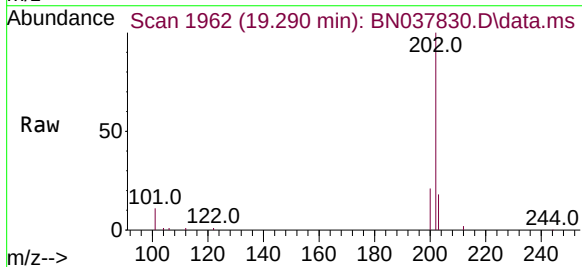
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

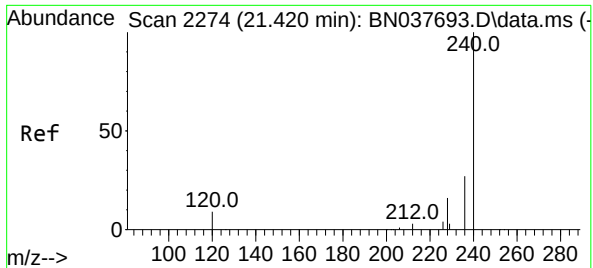
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.5	12.2	18.2
104	9.0	6.9	10.3



#28
Fluoranthene
Concen: 0.402 ng
RT: 19.290 min Scan# 1962
Delta R.T. -0.009 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.3	13.9
203	17.0	13.7	20.5

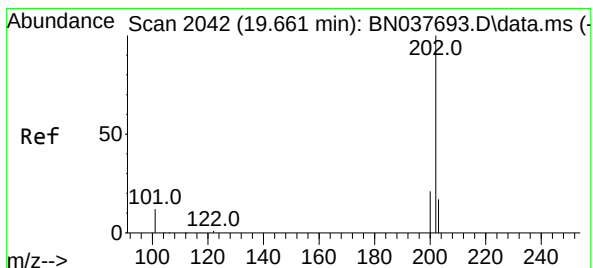
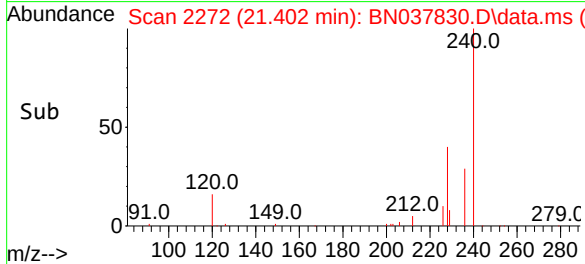
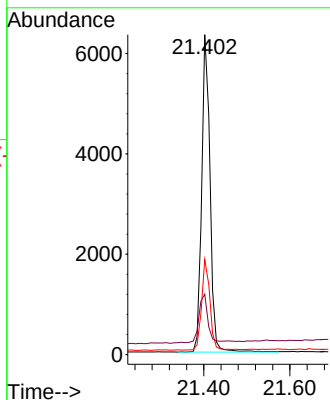
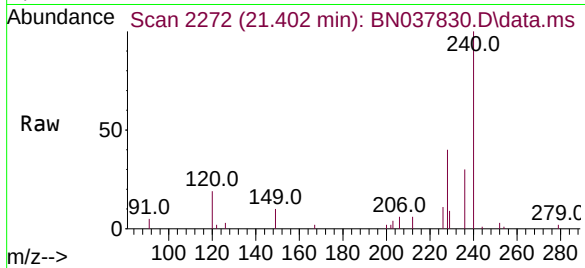




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

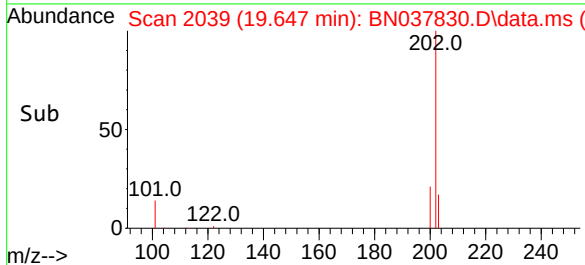
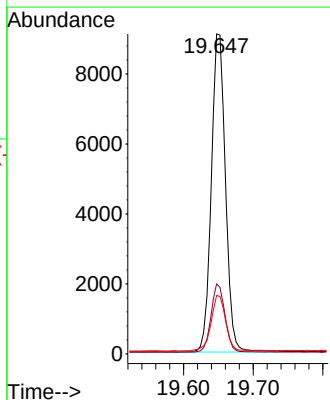
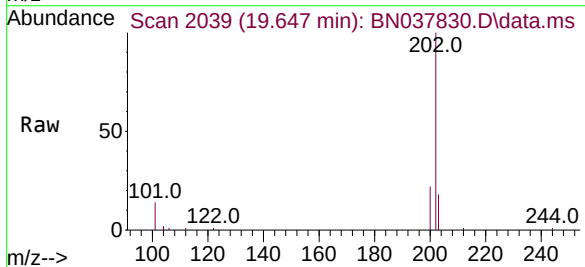
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

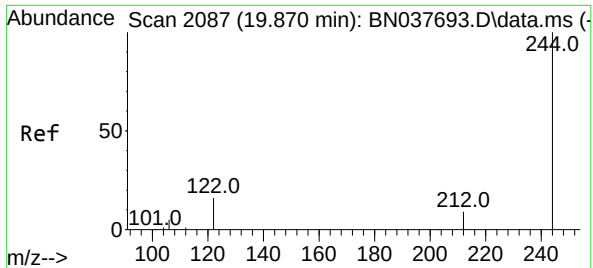
Tgt Ion:240 Resp: 8425
Ion Ratio Lower Upper
240 100
120 18.9 9.2 13.8#
236 29.7 22.6 33.8



#30
Pyrene
Concen: 0.388 ng
RT: 19.647 min Scan# 2039
Delta R.T. -0.014 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

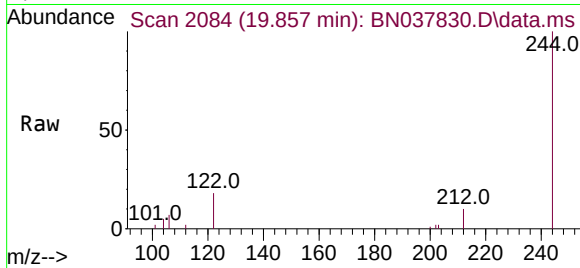
Tgt Ion:202 Resp: 12812
Ion Ratio Lower Upper
202 100
200 21.2 16.8 25.2
203 17.8 14.3 21.5



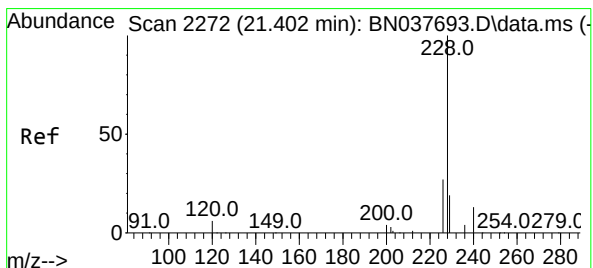
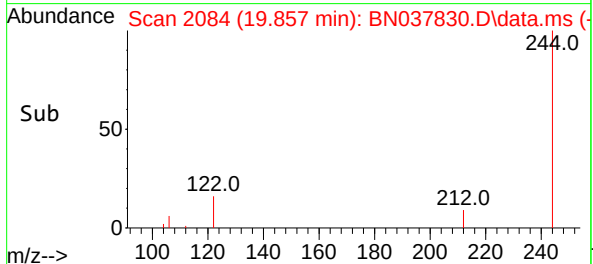
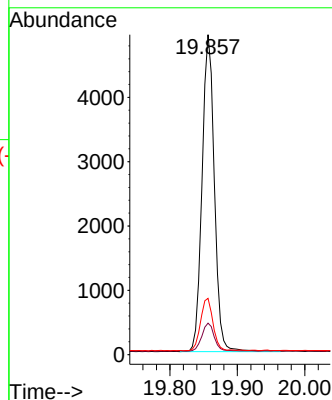


#31
Terphenyl-d14
Concen: 0.365 ng
RT: 19.857 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

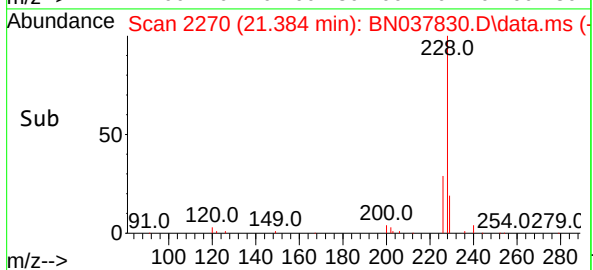
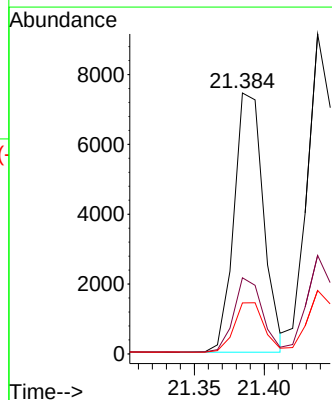
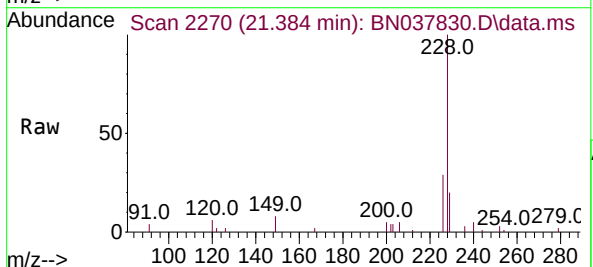


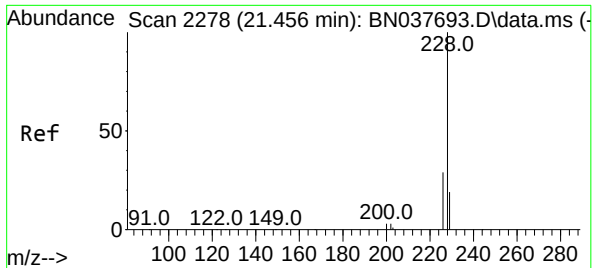
Tgt Ion:244 Resp: 6240
Ion Ratio Lower Upper
244 100
212 9.8 7.5 11.3
122 17.6 13.2 19.8



#32
Benzo(a)anthracene
Concen: 0.370 ng
RT: 21.384 min Scan# 2270
Delta R.T. -0.018 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:228 Resp: 10867
Ion Ratio Lower Upper
228 100
226 29.1 22.2 33.2
229 19.5 15.8 23.6

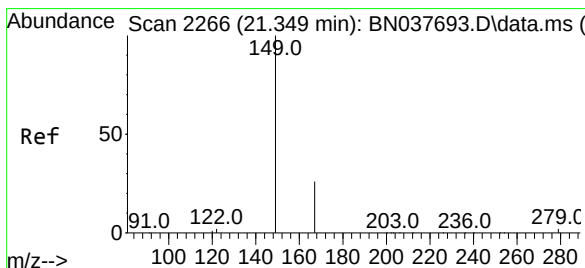
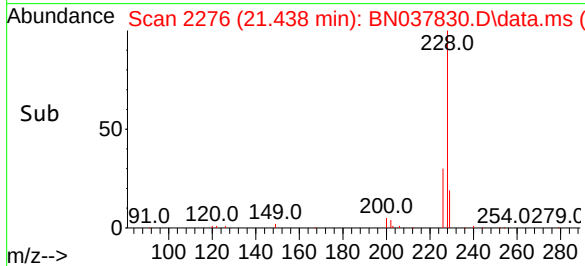
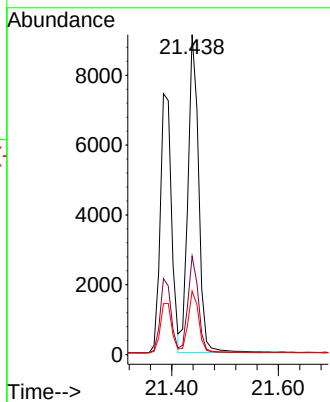
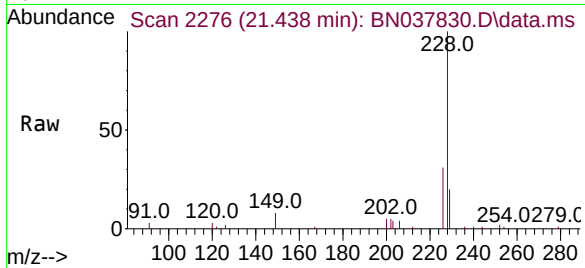




#33
Chrysene
Concen: 0.399 ng
RT: 21.438 min Scan# 2276
Delta R.T. -0.018 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

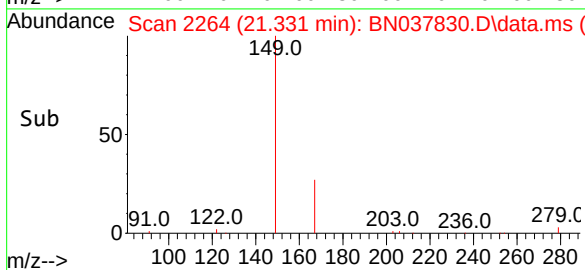
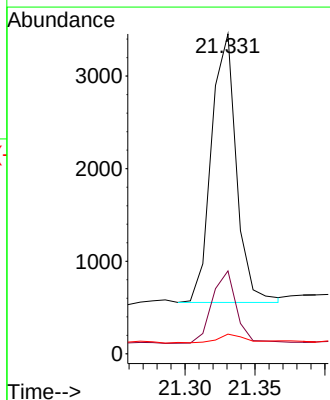
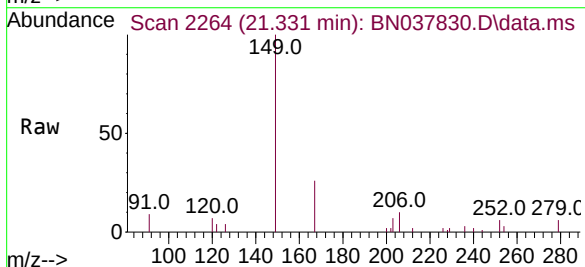
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

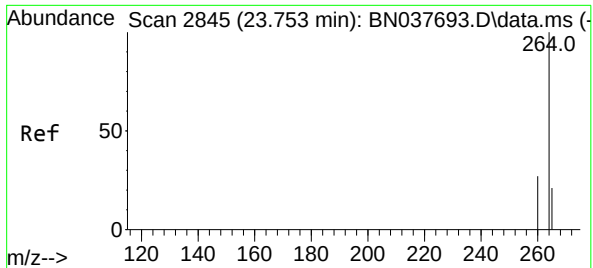
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	23.5	35.3
229	19.8	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.414 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.7	20.8	31.2
279	3.5	3.3	4.9

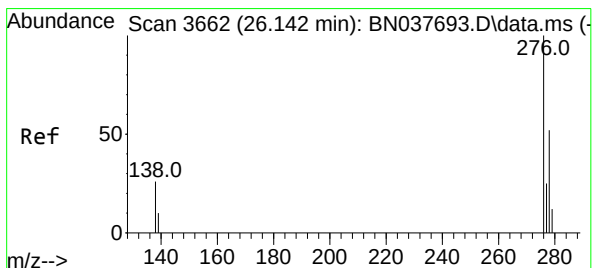
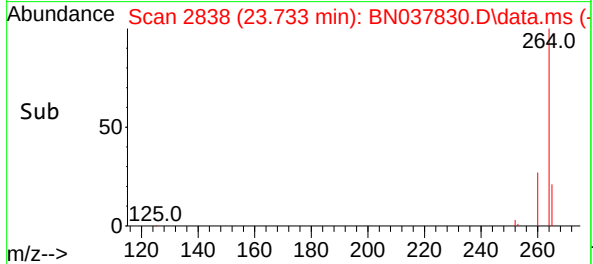
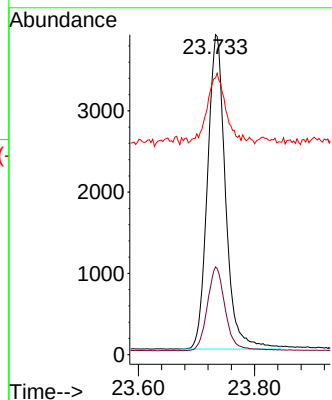
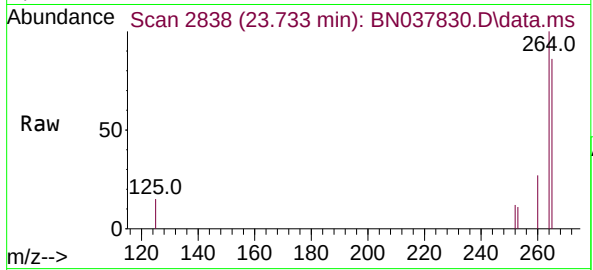




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.733 min Scan# 2838
Delta R.T. -0.020 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

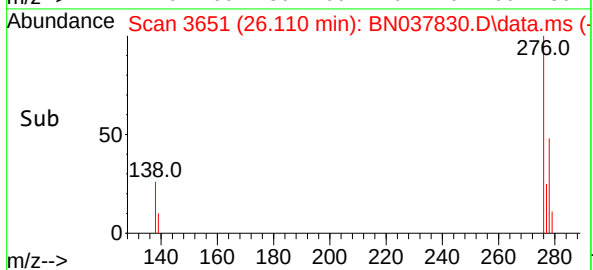
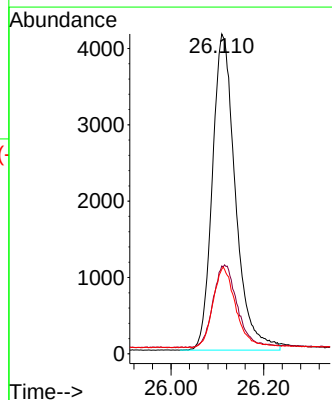
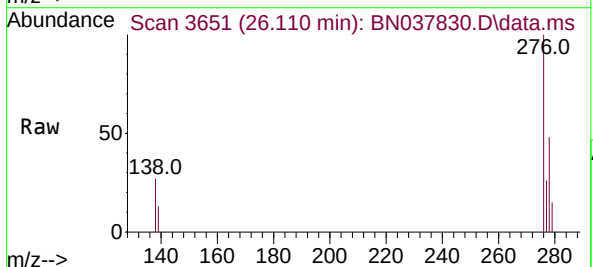
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

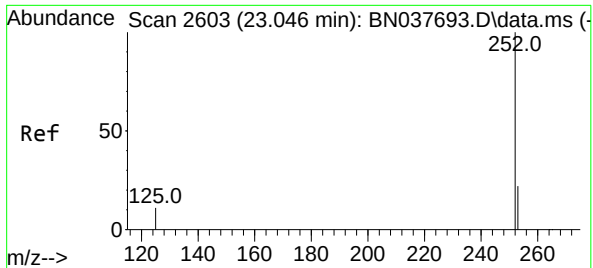
Tgt Ion:264 Resp: 8348
Ion Ratio Lower Upper
264 100
260 27.4 21.8 32.8
265 86.5 39.4 59.2#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.408 ng
RT: 26.110 min Scan# 3651
Delta R.T. -0.032 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:276 Resp: 14316
Ion Ratio Lower Upper
276 100
138 26.8 21.9 32.9
277 25.2 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.402 ng

RT: 23.031 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN037830.D

Acq: 20 Sep 2025 00:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

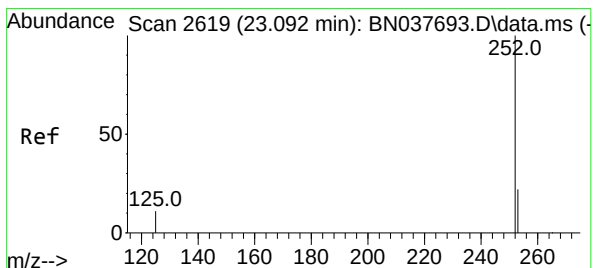
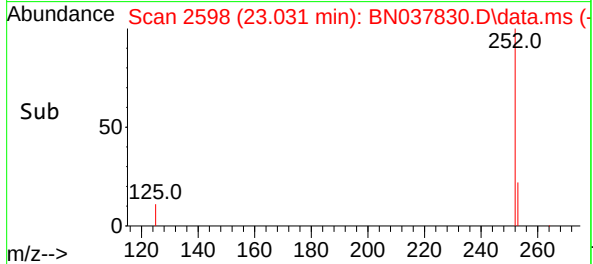
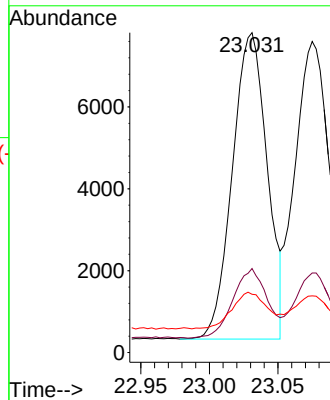
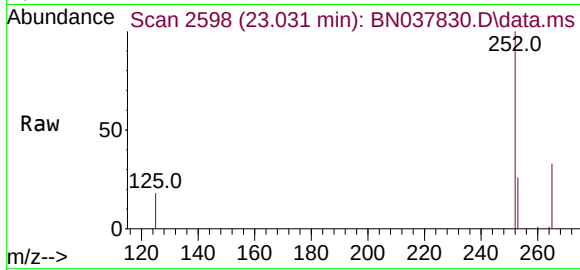
Tgt Ion:252 Resp: 13207

Ion Ratio Lower Upper

252 100

253 26.3 19.4 29.2

125 18.2 11.2 16.8#



#38

Benzo(k)fluoranthene

Concen: 0.392 ng

RT: 23.075 min Scan# 2613

Delta R.T. -0.018 min

Lab File: BN037830.D

Acq: 20 Sep 2025 00:39

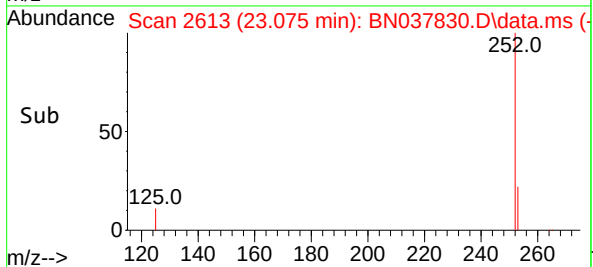
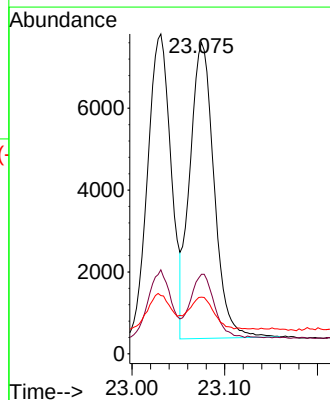
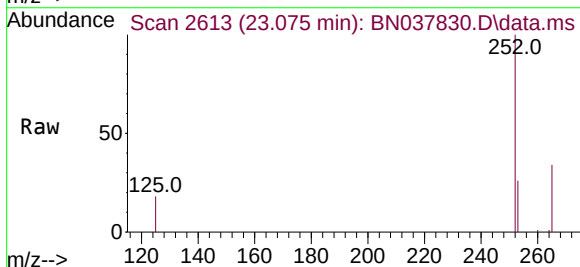
Tgt Ion:252 Resp: 13139

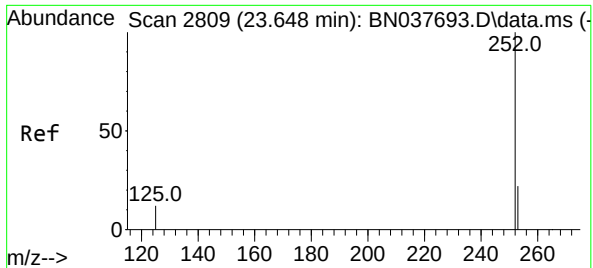
Ion Ratio Lower Upper

252 100

253 25.6 19.4 29.0

125 18.2 11.6 17.4#





#39

Benzo(a)pyrene

Concen: 0.387 ng

RT: 23.630 min Scan# 2803

Delta R.T. -0.018 min

Lab File: BN037830.D

Acq: 20 Sep 2025 00:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

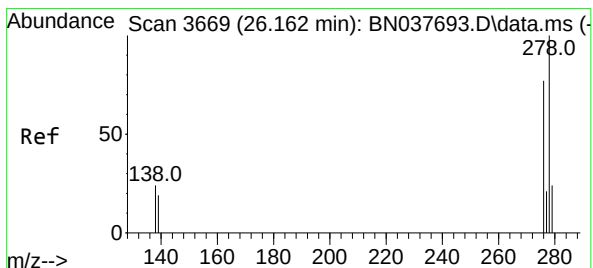
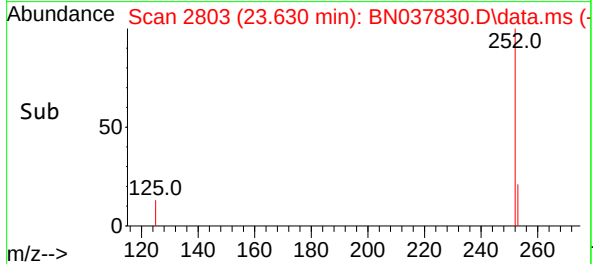
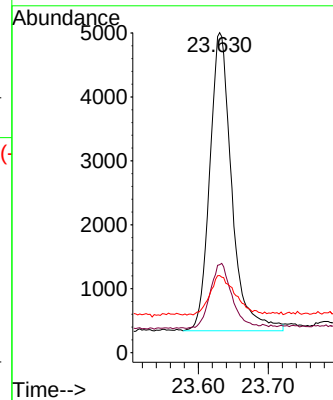
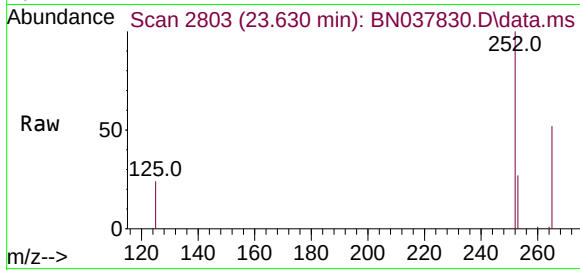
Tgt Ion:252 Resp: 10193

Ion Ratio Lower Upper

252 100

253 27.5 20.8 31.2

125 24.1 13.9 20.9#



#40

Dibenzo(a,h)anthracene

Concen: 0.397 ng

RT: 26.133 min Scan# 3659

Delta R.T. -0.029 min

Lab File: BN037830.D

Acq: 20 Sep 2025 00:39

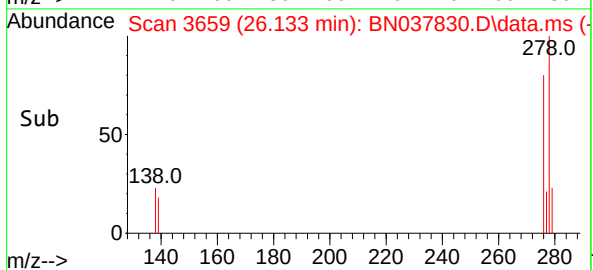
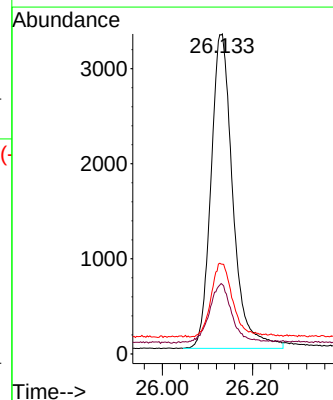
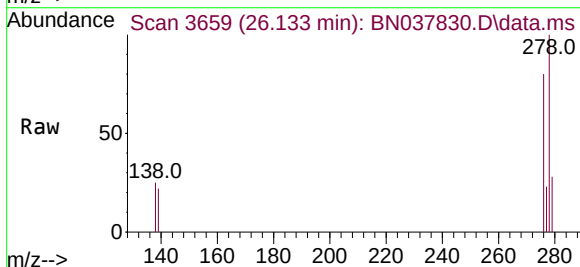
Tgt Ion:278 Resp: 11121

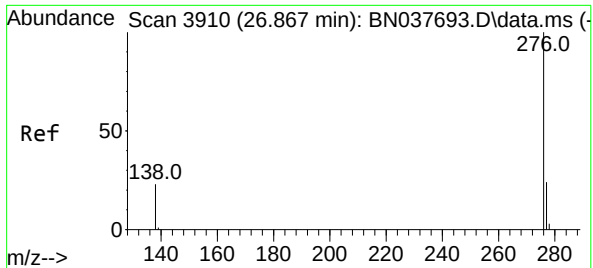
Ion Ratio Lower Upper

278 100

139 21.7 17.8 26.6

279 28.0 22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 0.396 ng

RT: 26.835 min Scan# 38

Delta R.T. -0.032 min

Lab File: BN037830.D

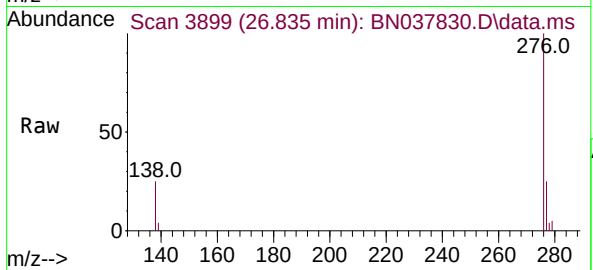
Acq: 20 Sep 2025 00:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



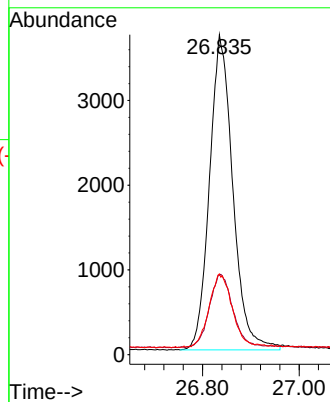
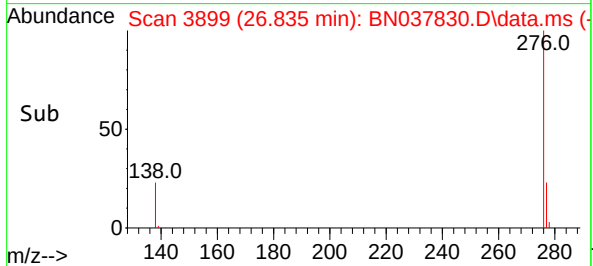
Tgt Ion:276 Resp: 12456

Ion Ratio Lower Upper

276 100

277 24.8 20.6 31.0

138 25.3 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
 Data File : BN037830.D
 Acq On : 20 Sep 2025 00:39
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 20 01:04:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	-0.01
2	1,4-Dioxane	0.417	0.395	5.3	89	0.00
3	n-Nitrosodimethylamine	0.544	0.543	0.2	92	0.00
4 S	2-Fluorophenol	0.918	0.830	9.6	89	0.00
5 S	Phenol-d6	1.191	1.088	8.6	90	0.00
6	bis(2-Chloroethyl)ether	1.064	0.999	6.1	89	-0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	97	-0.01
8 S	Nitrobenzene-d5	0.293	0.282	3.8	96	-0.01
9	Naphthalene	1.093	1.041	4.8	94	-0.01
10	Hexachlorobutadiene	0.198	0.192	3.0	95	-0.02
11 SURR	2-Methylnaphthalene-d10	0.530	0.471	11.1	92	-0.02
12	2-Methylnaphthalene	0.676	0.626	7.4	92	-0.02
13 I	Acenaphthene-d10	1.000	1.000	0.0	93	-0.01
14 S	2,4,6-Tribromophenol	0.104	0.105	-1.0	97	-0.01
15 S	2-Fluorobiphenyl	1.673	1.621	3.1	91	-0.01
16	Acenaphthylene	1.834	1.696	7.5	88	-0.01
17	Acenaphthene	1.240	1.186	4.4	91	-0.01
18	Fluorene	1.502	1.324	11.9	85	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	83	-0.01
20	4,6-Dinitro-2-methylphenol	0.037	0.028	24.3	69	-0.01
21	4-Bromophenyl-phenylether	0.261	0.250	4.2	82	-0.01
22	Hexachlorobenzene	0.300	0.318	-6.0	90	-0.01
23	Atrazine	0.166	0.150	9.6	82	-0.01
24	Pentachlorophenol	0.087	0.089	-2.3	99	-0.01
25	Phenanthrene	1.259	1.204	4.4	82	-0.01
26	Anthracene	1.116	1.028	7.9	80	-0.01
27 SURR	Fluoranthene-d10	1.004	0.971	3.3	86	-0.01
28	Fluoranthene	1.381	1.389	-0.6	88	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	90	-0.02
30	Pyrene	1.566	1.521	2.9	88	-0.01
31 S	Terphenyl-d14	0.812	0.741	8.7	83	-0.01
32	Benzo(a)anthracene	1.395	1.290	7.5	86	-0.02
33	Chrysene	1.496	1.494	0.1	90	-0.02
34	Bis(2-ethylhexyl)phthalate	0.414	0.428	-3.4	102	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	93	-0.02
36	Indeno(1,2,3-cd)pyrene	1.681	1.715	-2.0	103	-0.03
37	Benzo(b)fluoranthene	1.575	1.582	-0.4	95	-0.01
38	Benzo(k)fluoranthene	1.606	1.574	2.0	96	-0.02
39 C	Benzo(a)pyrene	1.261	1.221	3.2	95	-0.02
40	Dibenzo(a,h)anthracene	1.342	1.332	0.7	102	-0.03
41	Benzo(g,h,i)perylene	1.506	1.492	0.9	96	-0.03

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
 Data File : BN037830.D
 Acq On : 20 Sep 2025 00:39
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 20 01:04:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	95	-0.01
2	1,4-Dioxane	0.400	0.379	5.3	89	0.00
3	n-Nitrosodimethylamine	0.400	0.399	0.3	92	0.00
4 S	2-Fluorophenol	0.400	0.361	9.8	89	0.00
5 S	Phenol-d6	0.400	0.365	8.8	90	0.00
6	bis(2-Chloroethyl)ether	0.400	0.376	6.0	89	-0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	97	-0.01
8 S	Nitrobenzene-d5	0.400	0.386	3.5	96	-0.01
9	Naphthalene	0.400	0.381	4.8	94	-0.01
10	Hexachlorobutadiene	0.400	0.389	2.8	95	-0.02
11 SURR	2-Methylnaphthalene-d10	0.400	0.355	11.3	92	-0.02
12	2-Methylnaphthalene	0.400	0.370	7.5	92	-0.02
13 I	Acenaphthene-d10	0.400	0.400	0.0	93	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.404	-1.0	97	-0.01
15 S	2-Fluorobiphenyl	0.400	0.388	3.0	91	-0.01
16	Acenaphthylene	0.400	0.370	7.5	88	-0.01
17	Acenaphthene	0.400	0.382	4.5	91	-0.01
18	Fluorene	0.400	0.352	12.0	85	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	83	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.297	25.8#	69	-0.01
21	4-Bromophenyl-phenylether	0.400	0.383	4.3	82	-0.01
22	Hexachlorobenzene	0.400	0.424	-6.0	90	-0.01
23	Atrazine	0.400	0.361	9.8	82	-0.01
24	Pentachlorophenol	0.400	0.408	-2.0	99	-0.01
25	Phenanthrene	0.400	0.383	4.3	82	-0.01
26	Anthracene	0.400	0.369	7.8	80	-0.01
27 SURR	Fluoranthene-d10	0.400	0.387	3.3	86	-0.01
28	Fluoranthene	0.400	0.402	-0.5	88	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	90	-0.02
30	Pyrene	0.400	0.388	3.0	88	-0.01
31 S	Terphenyl-d14	0.400	0.365	8.8	83	-0.01
32	Benzo(a)anthracene	0.400	0.370	7.5	86	-0.02
33	Chrysene	0.400	0.399	0.3	90	-0.02
34	Bis(2-ethylhexyl)phthalate	0.400	0.414	-3.5	102	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	93	-0.02
36	Indeno(1,2,3-cd)pyrene	0.400	0.408	-2.0	103	-0.03
37	Benzo(b)fluoranthene	0.400	0.402	-0.5	95	-0.01
38	Benzo(k)fluoranthene	0.400	0.392	2.0	96	-0.02
39 C	Benzo(a)pyrene	0.400	0.387	3.3	95	-0.02
40	Dibenzo(a,h)anthracene	0.400	0.397	0.8	102	-0.03
41	Benzo(g,h,i)perylene	0.400	0.396	1.0	96	-0.03

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>AECO15</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3095</u>
Instrument ID:	<u>BNA_N</u>	Calibration Date/Time:	<u>09/20/2025 02:35</u>
Lab File ID:	<u>BN037832.D</u>	Init. Calib. Date(s):	<u>09/11/2025 09/11/2025</u>
EPA Sample No.:	<u>SSTDCCC0.4</u>	Init. Calib. Time(s):	<u>09:56 13:33</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.469		-11.5	20.0
Fluoranthene-d10	1.004	0.832		-17.1	20.0
2-Fluorophenol	0.918	0.870		-5.2	20.0
Phenol-d6	1.191	1.110		-6.8	20.0
Nitrobenzene-d5	0.293	0.281		-4.1	20.0
2-Fluorobiphenyl	1.673	1.666		-0.4	20.0
2,4,6-Tribromophenol	0.104	0.112		7.7	20.0
Terphenyl-d14	0.812	0.693		-14.7	20.0
1,4-Dioxane	0.417	0.400		-4.1	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
 Data File : BN037832.D
 Acq On : 20 Sep 2025 02:35
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Sep 20 04:26:33 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

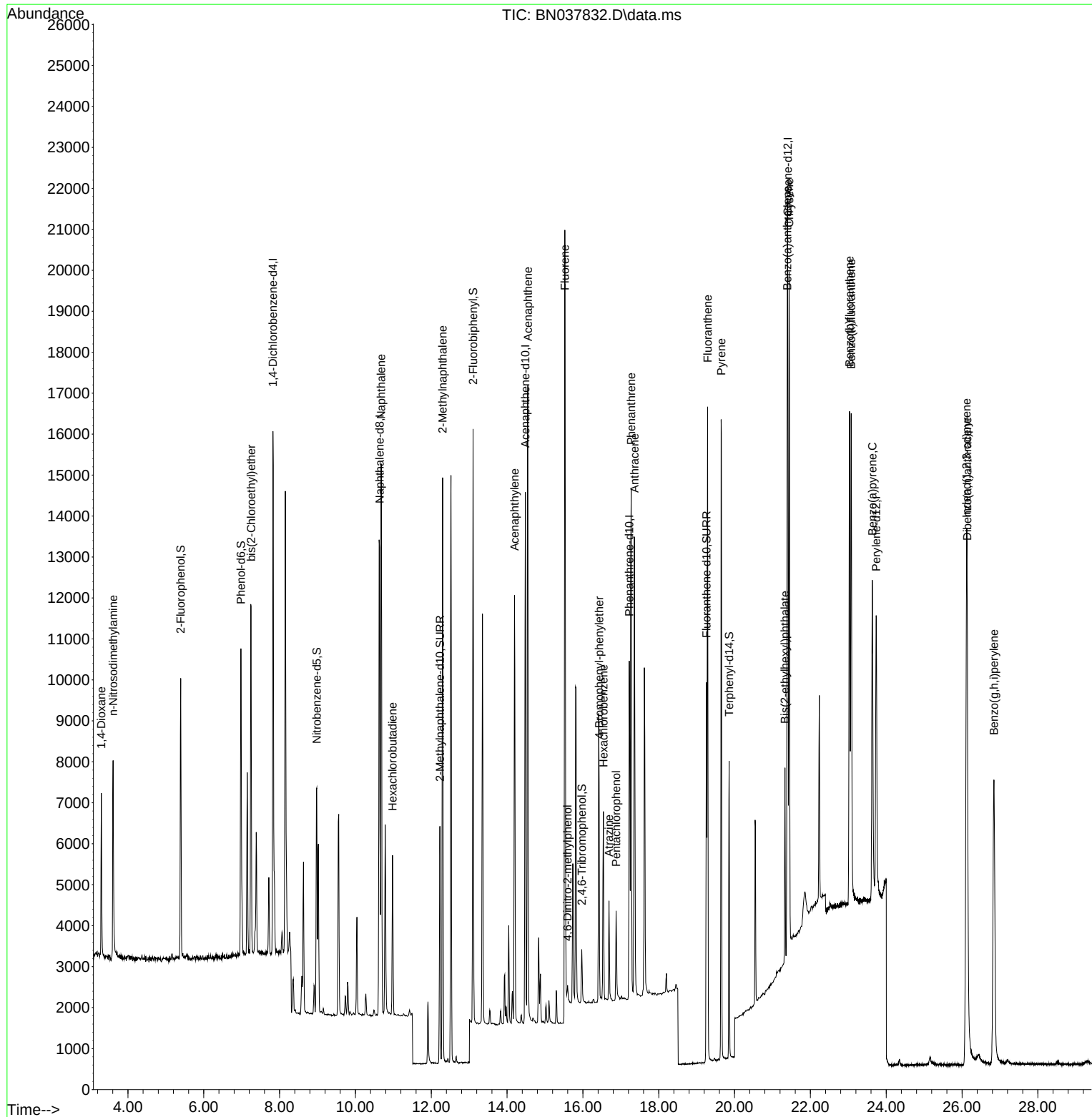
Internal Standards					
1) 1,4-Dichlorobenzene-d4	7.825	152	6232	0.400 ng	-0.01
7) Naphthalene-d8	10.637	136	16500	0.400 ng	#-0.01
13) Acenaphthene-d10	14.484	164	7183	0.400 ng	-0.01
19) Phenanthrene-d10	17.223	188	11907	0.400 ng	-0.01
29) Chrysene-d12	21.402	240	9777	0.400 ng	#-0.02
35) Perylene-d12	23.736	264	10066	0.400 ng	#-0.02
System Monitoring Compounds					
4) 2-Fluorophenol	5.392	112	5424	0.379 ng	0.00
5) Phenol-d6	6.980	99	6919	0.373 ng	0.00
8) Nitrobenzene-d5	8.982	82	4642	0.385 ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	7736	0.354 ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	801	0.428 ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	11968	0.398 ng	-0.01
27) Fluoranthene-d10	19.257	212	9903	0.331 ng	-0.01
31) Terphenyl-d14	19.856	244	6777	0.342 ng	-0.01
Target Compounds					Qvalue
2) 1,4-Dioxane	3.297	88	2495	0.384 ng	95
3) n-Nitrosodimethylamine	3.608	42	2977	0.351 ng	# 86
6) bis(2-Chloroethyl)ether	7.248	93	6444	0.389 ng	99
9) Naphthalene	10.680	128	17368	0.385 ng	99
10) Hexachlorobutadiene	10.979	225	3074	0.377 ng	# 100
12) 2-Methylnaphthalene	12.298	142	10342	0.371 ng	100
16) Acenaphthylene	14.195	152	12222	0.371 ng	99
17) Acenaphthene	14.548	154	8331	0.374 ng	97
18) Fluorene	15.522	166	9643	0.357 ng	99
20) 4,6-Dinitro-2-methylph...	15.597	198	300	0.272 ng	# 66
21) 4-Bromophenyl-phenylether	16.429	248	3001	0.386 ng	97
22) Hexachlorobenzene	16.540	284	3776	0.423 ng	99
23) Atrazine	16.689	200	1825	0.369 ng	96
24) Pentachlorophenol	16.875	266	1159	0.447 ng	97
25) Phenanthrene	17.273	178	14378	0.384 ng	99
26) Anthracene	17.360	178	12209	0.368 ng	100
28) Fluoranthene	19.290	202	14335	0.349 ng	100
30) Pyrene	19.647	202	14225	0.372 ng	100
32) Benzo(a)anthracene	21.393	228	13107	0.384 ng	100
33) Chrysene	21.438	228	14113	0.386 ng	99
34) Bis(2-ethylhexyl)phtha...	21.331	149	4249	0.420 ng	# 99
36) Indeno(1,2,3-cd)pyrene	26.118	276	18036	0.426 ng	100
37) Benzo(b)fluoranthene	23.031	252	15833	0.399 ng	# 95
38) Benzo(k)fluoranthene	23.078	252	15748	0.390 ng	# 95
39) Benzo(a)pyrene	23.633	252	12481	0.393 ng	# 93
40) Dibenzo(a,h)anthracene	26.136	278	14128	0.418 ng	97
41) Benzo(g,h,i)perylene	26.841	276	16240	0.429 ng	99

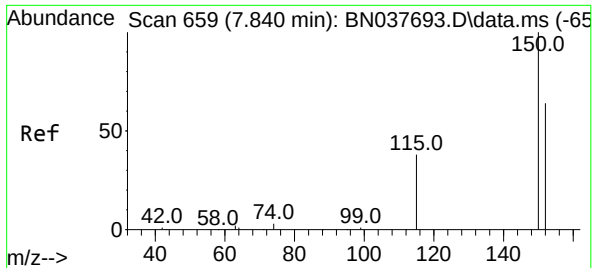
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037832.D
Acq On : 20 Sep 2025 02:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 20 04:26:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

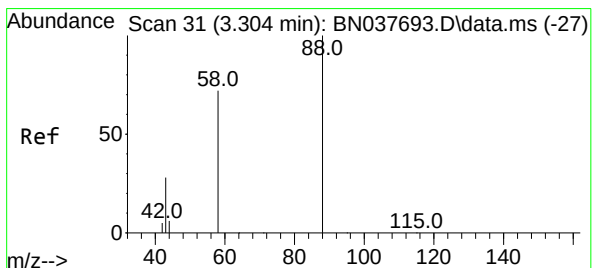
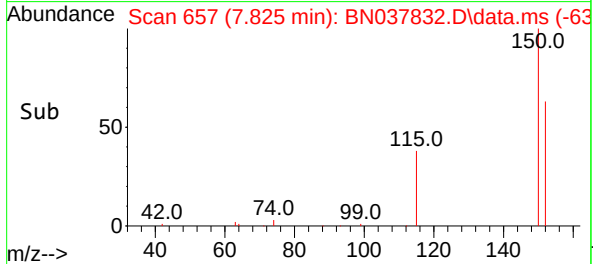
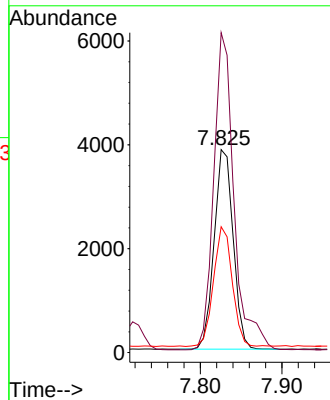
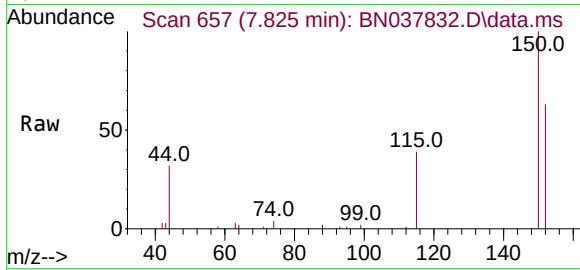




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

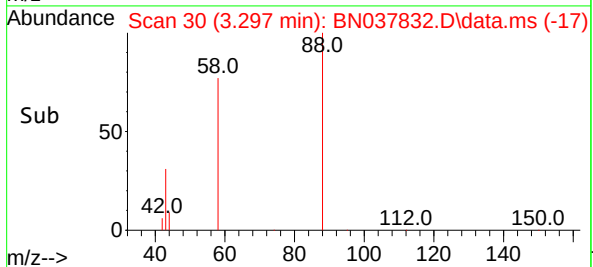
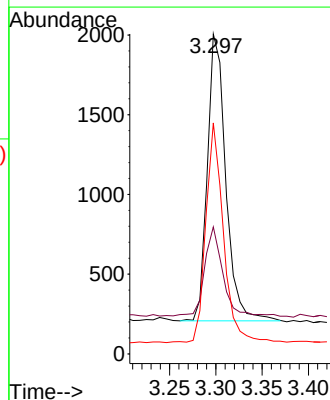
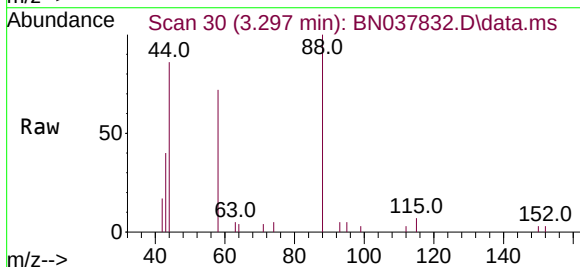
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

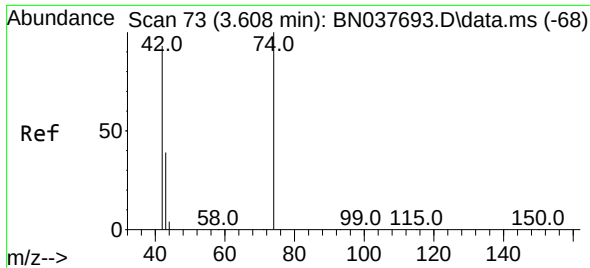
Tgt Ion:152 Resp: 6232
Ion Ratio Lower Upper
152 100
150 157.7 124.5 186.7
115 62.0 49.2 73.8



#2
1,4-Dioxane
Concen: 0.384 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion: 88 Resp: 2495
Ion Ratio Lower Upper
88 100
43 30.4 26.8 40.2
58 73.1 61.9 92.9

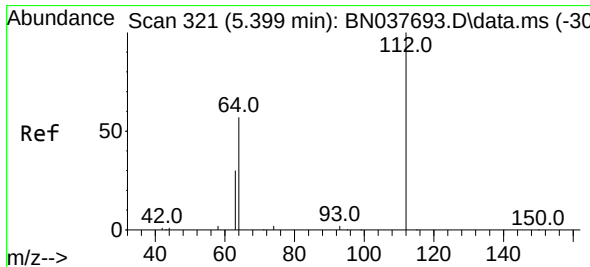
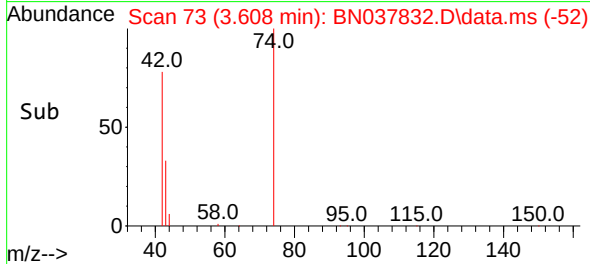
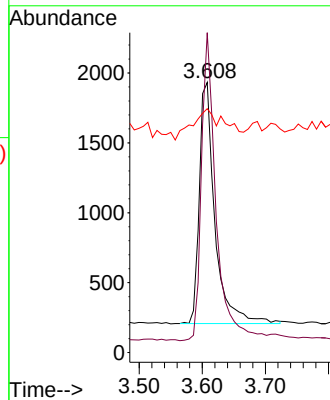
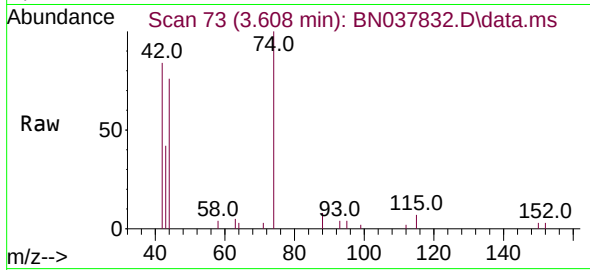




#3
n-Nitrosodimethylamine
Concen: 0.351 ng
RT: 3.608 min Scan# 73
Delta R.T. -0.000 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

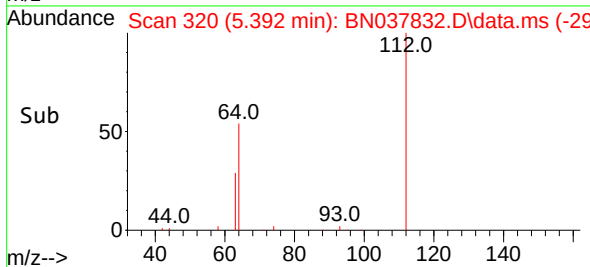
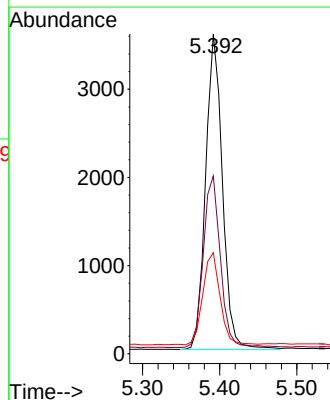
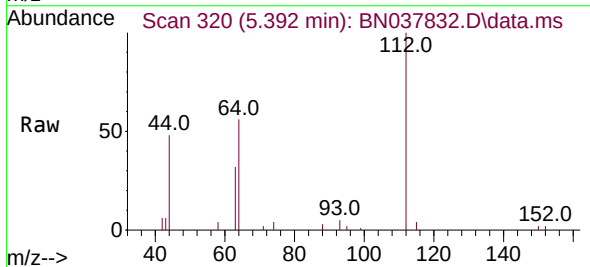
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

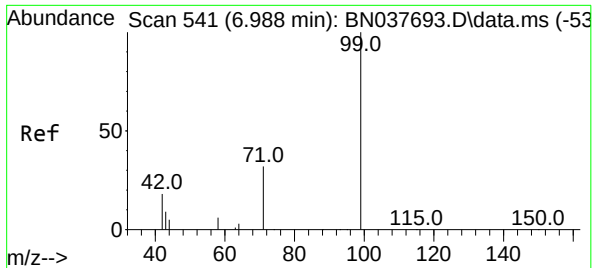
Tgt Ion: 42 Resp: 2977
Ion Ratio Lower Upper
42 100
74 119.4 86.0 129.0
44 26.8 8.4 12.6#



#4
2-Fluorophenol
Concen: 0.379 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion: 112 Resp: 5424
Ion Ratio Lower Upper
112 100
64 55.6 44.9 67.3
63 29.8 24.7 37.1

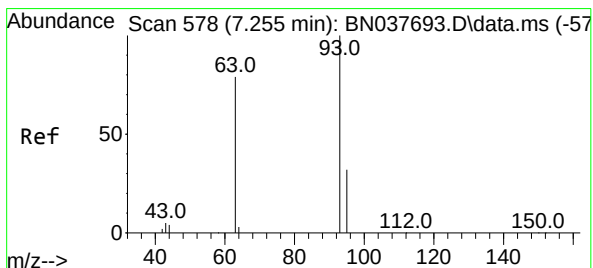
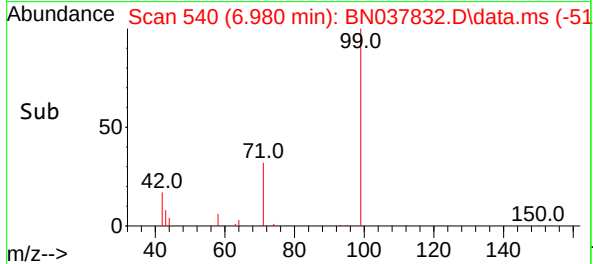
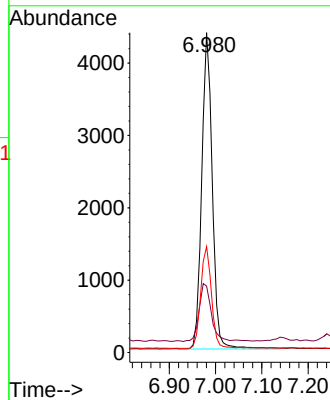
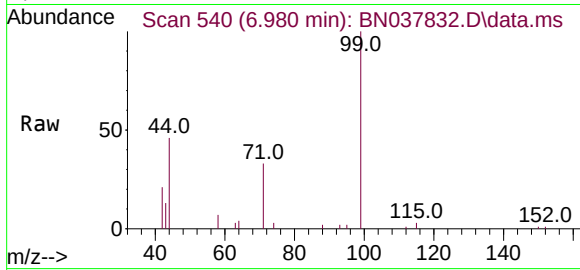




#5
Phenol-d6
Concen: 0.373 ng
RT: 6.980 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

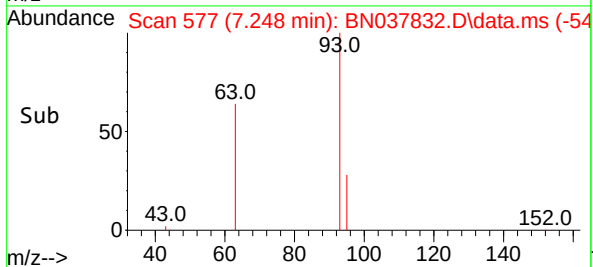
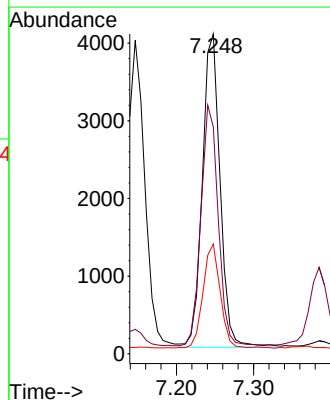
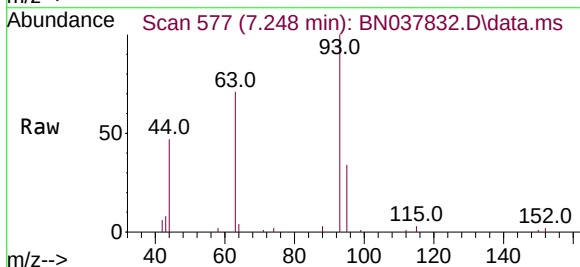
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

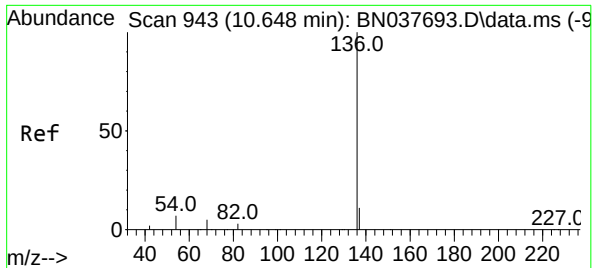
Tgt Ion: 99 Resp: 6919
Ion Ratio Lower Upper
99 100
42 21.0 16.6 24.8
71 33.0 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.389 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion: 93 Resp: 6444
Ion Ratio Lower Upper
93 100
63 75.0 60.6 90.8
95 32.4 26.0 39.0

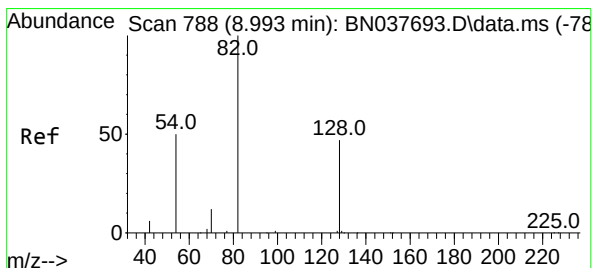
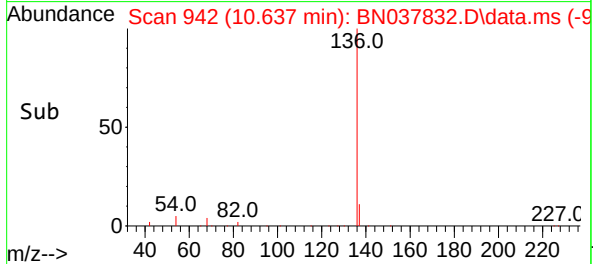
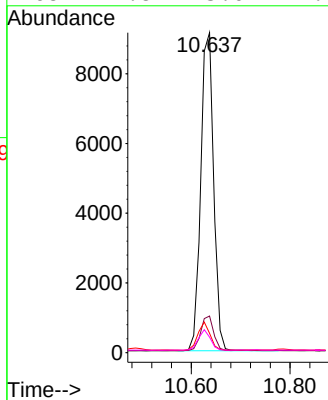
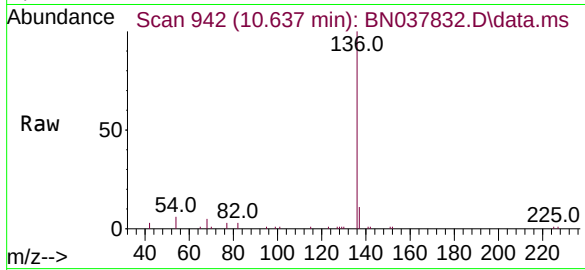




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

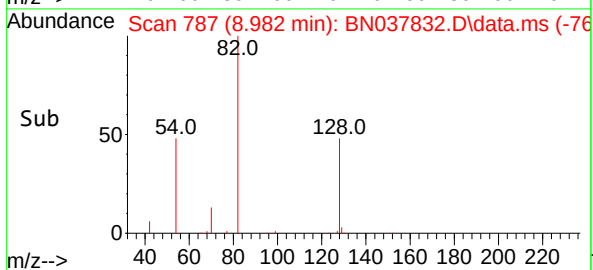
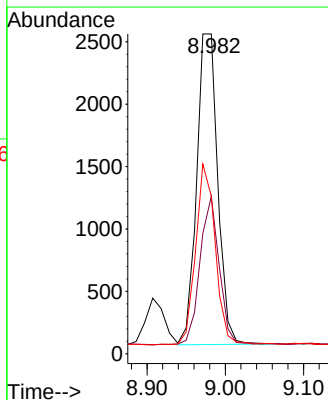
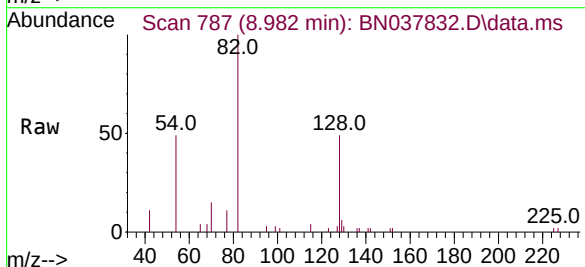
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

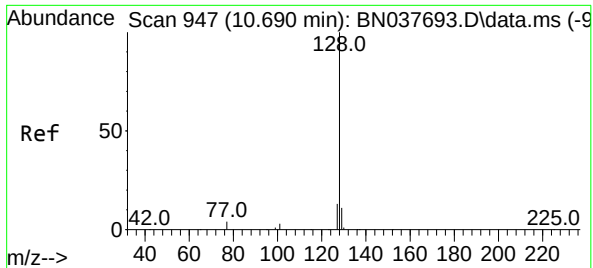
Tgt Ion:136	Resp:	16500
Ion Ratio	Lower	Upper
136	100	
137	11.4	9.1 13.7
54	6.0	6.3 9.5#
68	4.8	5.0 7.4#



#8
Nitrobenzene-d5
Concen: 0.385 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion: 82	Resp:	4642
Ion Ratio	Lower	Upper
82	100	
128	49.2	38.3 57.5
54	49.2	41.4 62.2

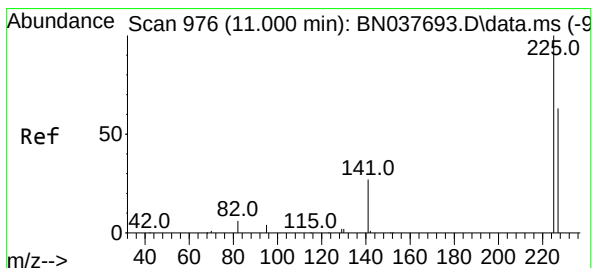
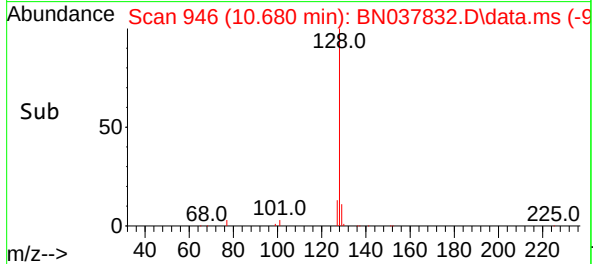
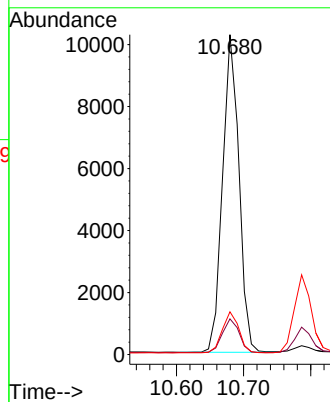
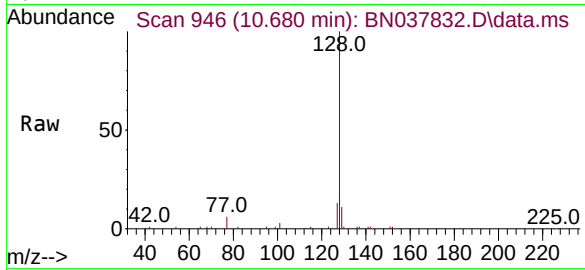




#9
Naphthalene
Concen: 0.385 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

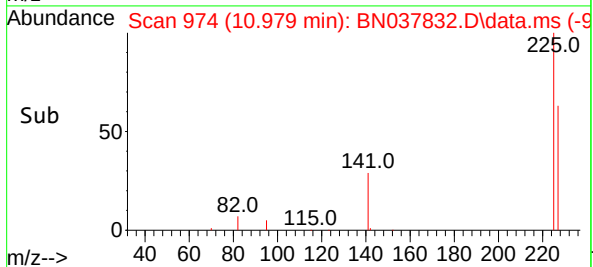
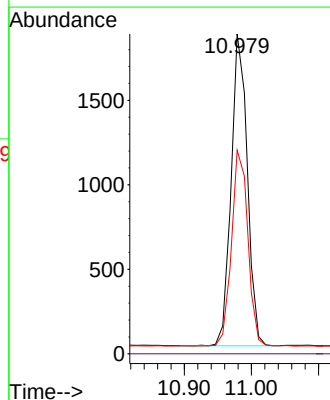
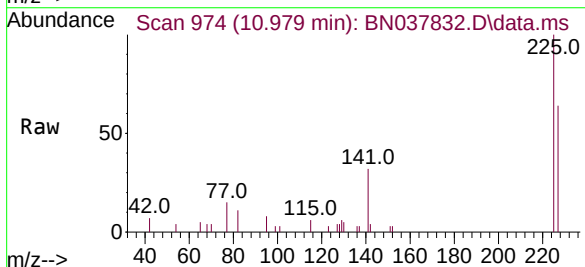
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

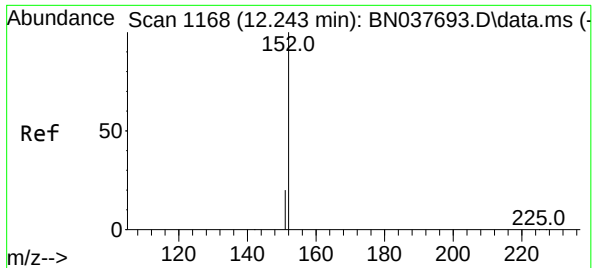
Tgt Ion:128 Resp: 17368
Ion Ratio Lower Upper
128 100
129 11.2 9.1 13.7
127 13.4 10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.377 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.021 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:225 Resp: 3074
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 50.9 76.3

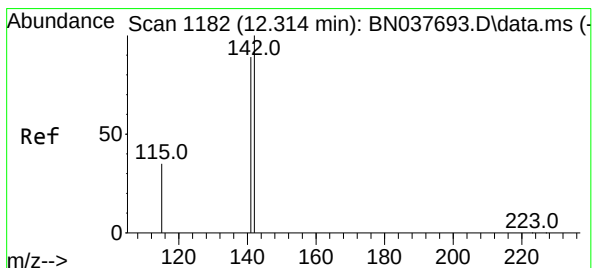
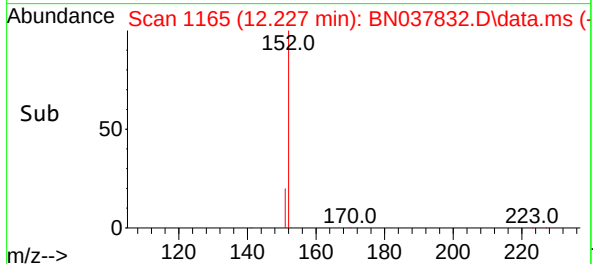
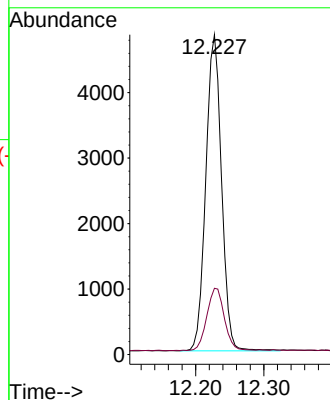
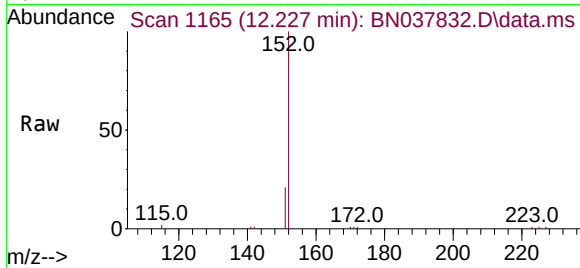




#11
2-Methylnaphthalene-d10
Concen: 0.354 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

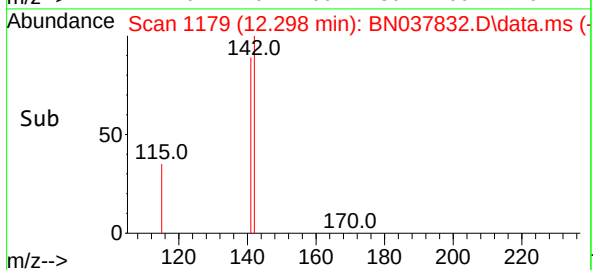
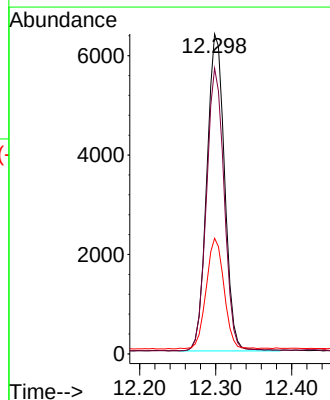
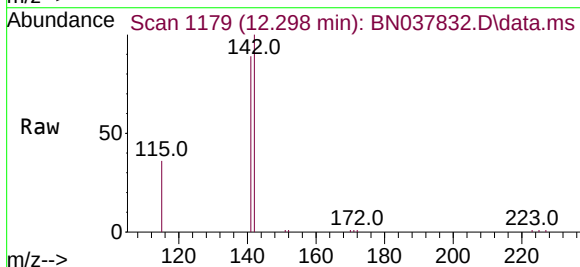
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

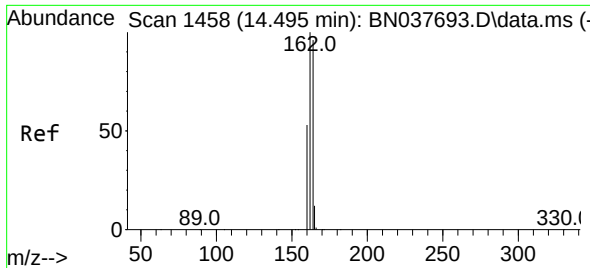
Tgt Ion:152 Resp: 7736
Ion Ratio Lower Upper
152 100
151 22.1 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.371 ng
RT: 12.298 min Scan# 1179
Delta R.T. -0.015 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:142 Resp: 10342
Ion Ratio Lower Upper
142 100
141 89.3 71.6 107.4
115 36.1 28.6 43.0

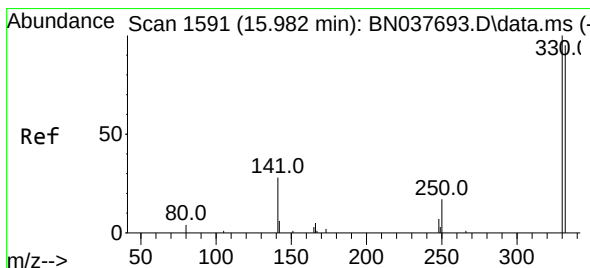
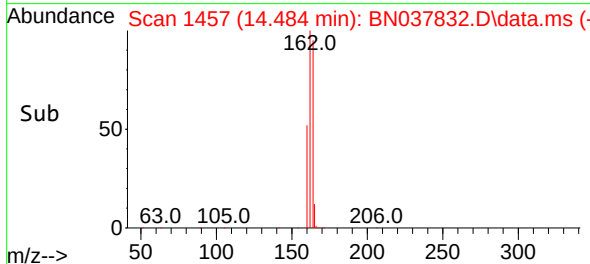
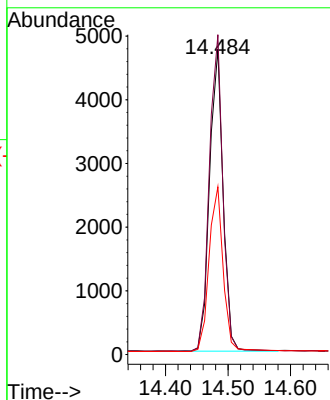
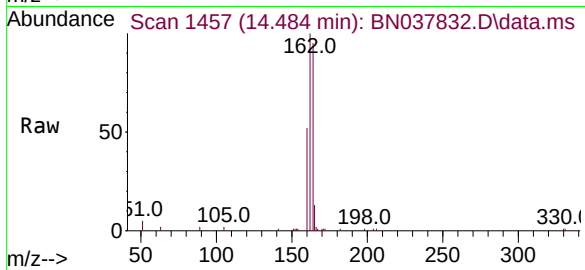




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

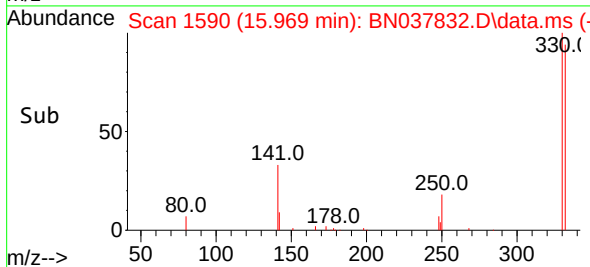
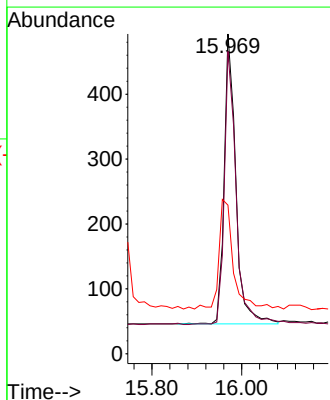
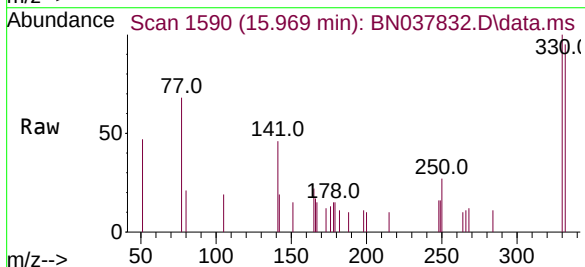
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

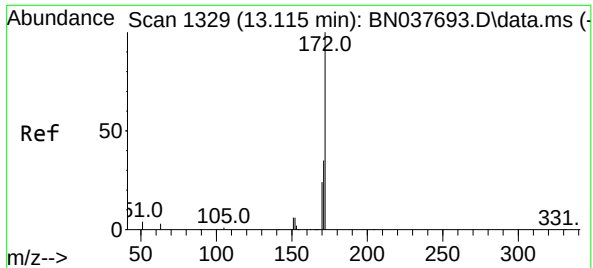
Tgt Ion	164	Resp	7183
Ion Ratio	Lower	Upper	
164	100		
162	104.8	83.1	124.7
160	54.9	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.428 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion	330	Resp	801
Ion Ratio	Lower	Upper	
330	100		
332	96.4	75.3	112.9
141	46.8	35.0	52.4

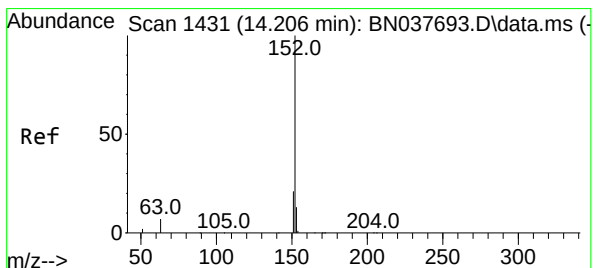
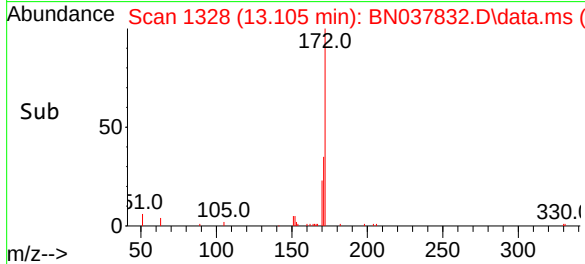
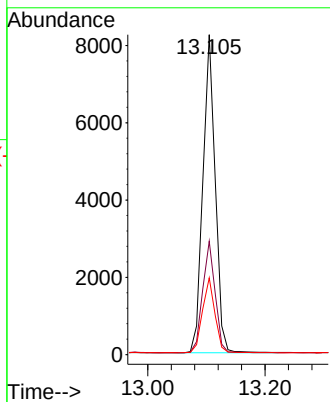
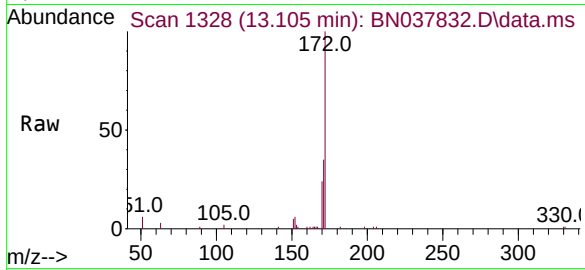




#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

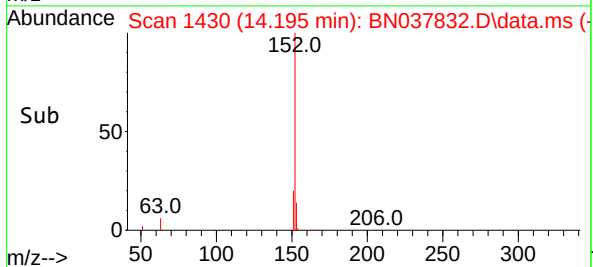
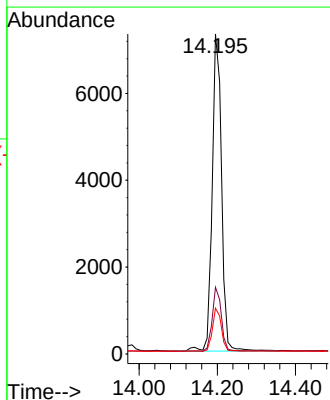
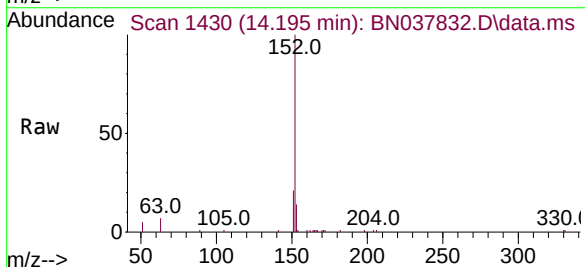
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

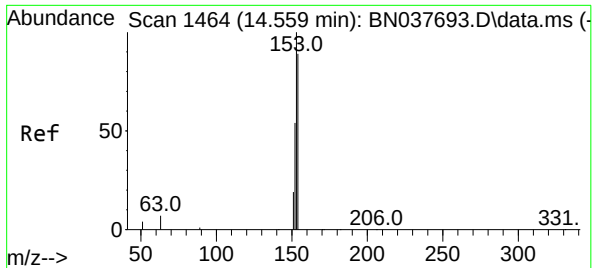
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.6	43.0
170	24.0	19.8	29.8



#16
Acenaphthylene
Concen: 0.371 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.5	16.2	24.2
153	12.6	10.4	15.6

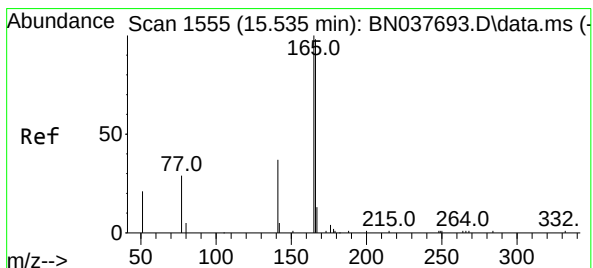
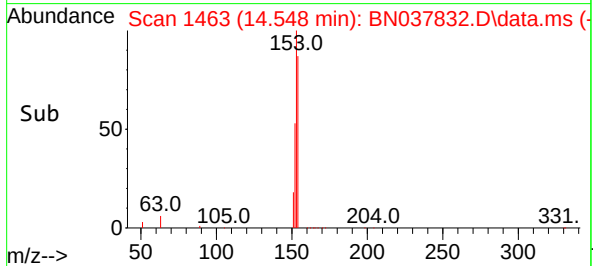
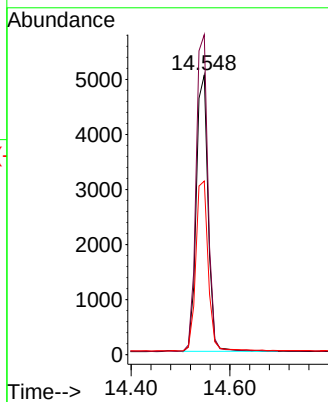
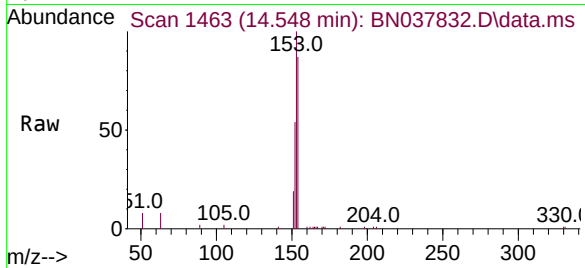




#17
Acenaphthene
Concen: 0.374 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

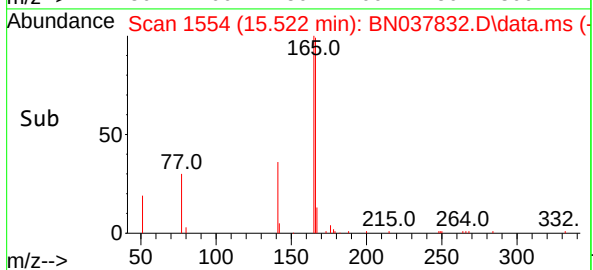
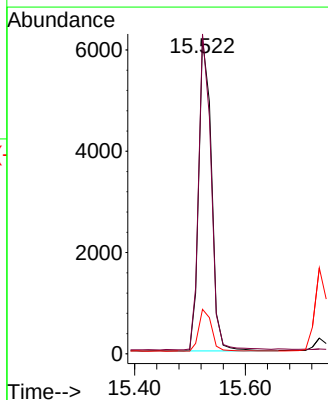
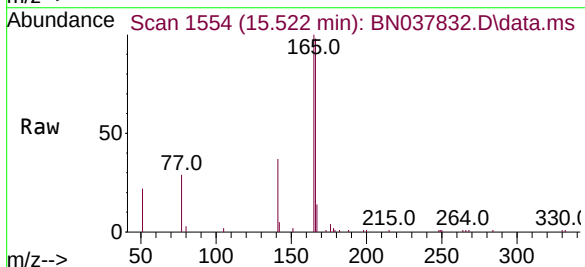
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

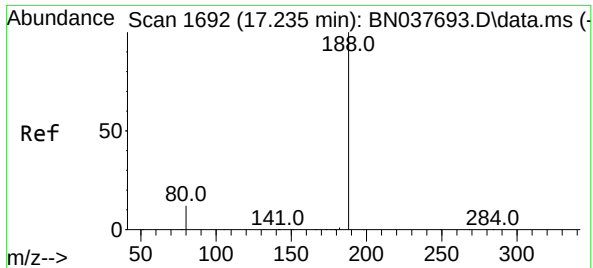
Tgt Ion:154 Resp: 8331
Ion Ratio Lower Upper
154 100
153 116.5 89.8 134.8
152 64.6 50.2 75.2



#18
Fluorene
Concen: 0.357 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.012 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:166 Resp: 9643
Ion Ratio Lower Upper
166 100
165 98.8 79.6 119.4
167 13.6 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1692

Delta R.T. -0.013 min

Lab File: BN037832.D

Acq: 20 Sep 2025 02:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

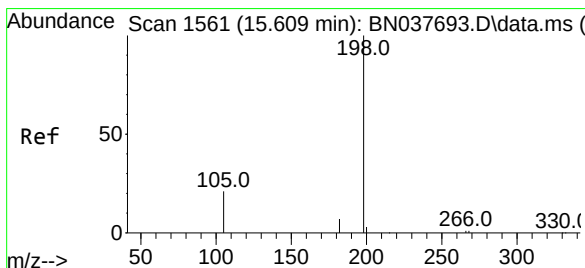
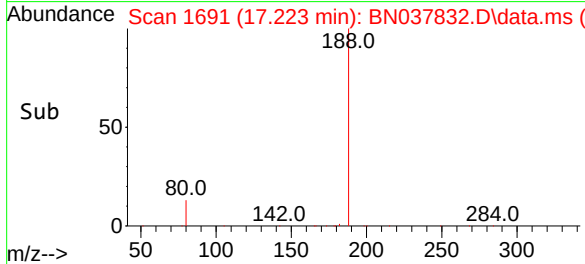
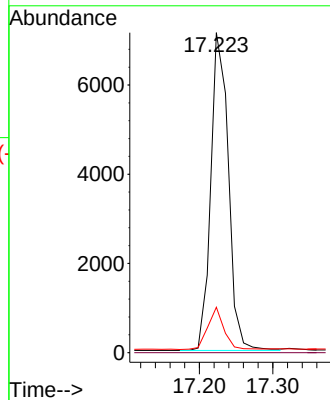
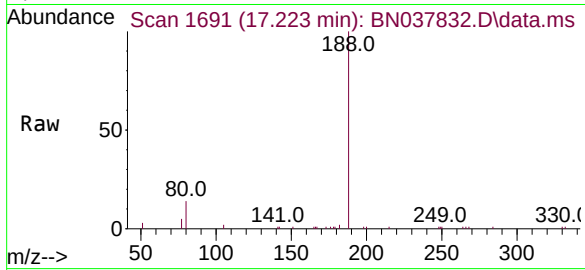
Tgt Ion:188 Resp: 11907

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.2 10.6 15.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.272 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.012 min

Lab File: BN037832.D

Acq: 20 Sep 2025 02:35

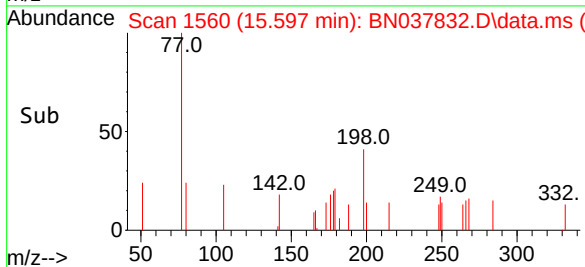
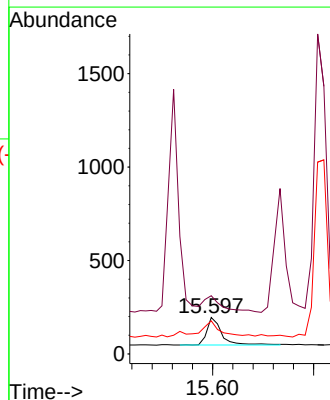
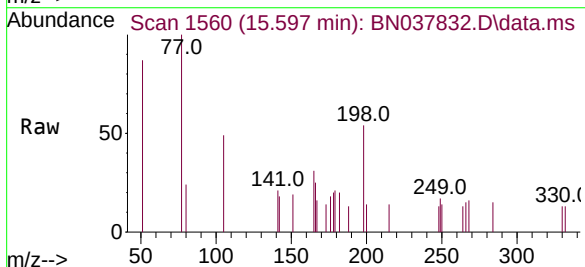
Tgt Ion:198 Resp: 300

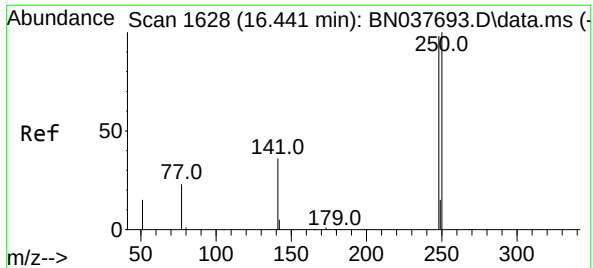
Ion Ratio Lower Upper

198 100

51 160.0 95.1 142.7#

105 90.8 53.8 80.6#

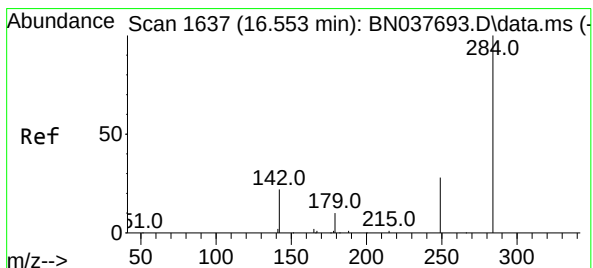
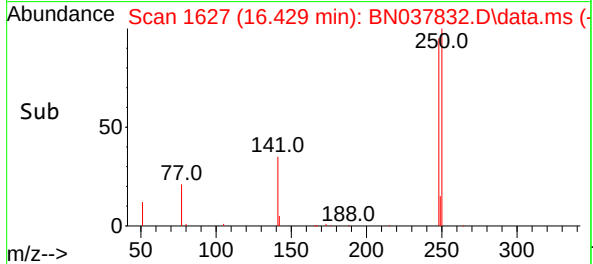
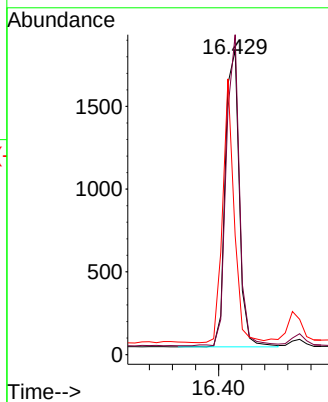
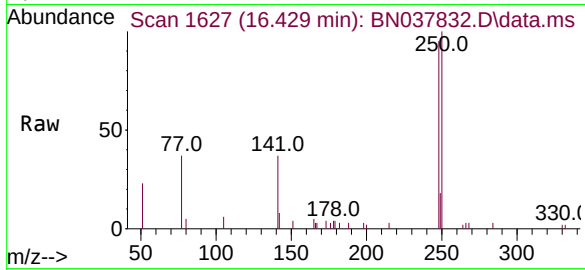




#21
4-Bromophenyl-phenylether
Concen: 0.386 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.013 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

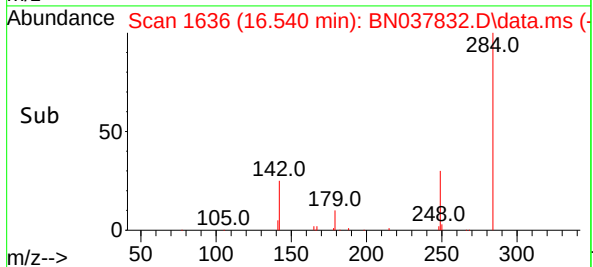
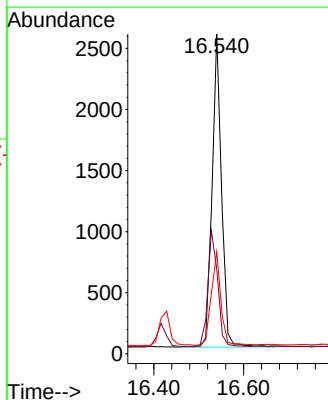
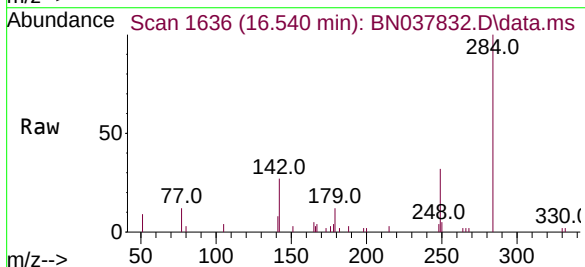
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

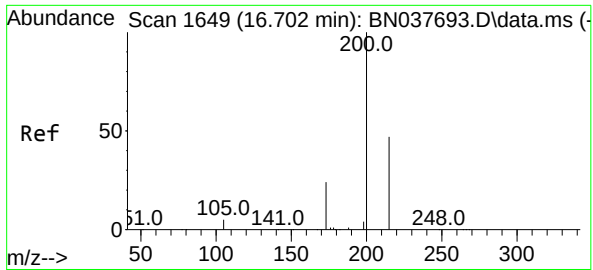
Tgt Ion	Ratio	Lower	Upper
248	100		
250	105.2	81.5	122.3
141	39.2	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.423 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.3	30.9	46.3
249	30.2	24.8	37.2





#23

Atrazine

Concen: 0.369 ng

RT: 16.689 min Scan# 1648

Delta R.T. -0.012 min

Lab File: BN037832.D

Acq: 20 Sep 2025 02:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

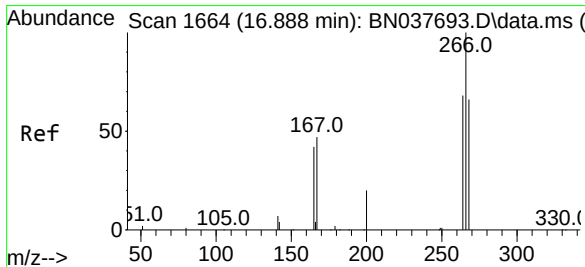
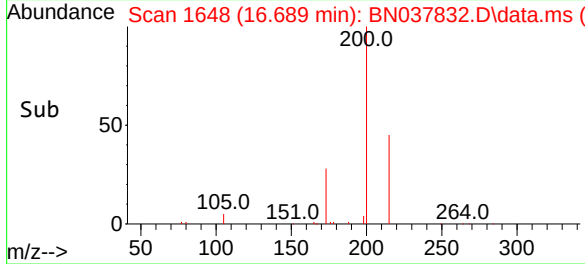
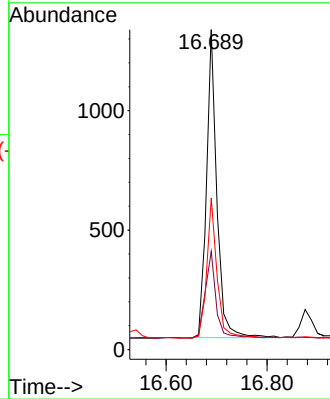
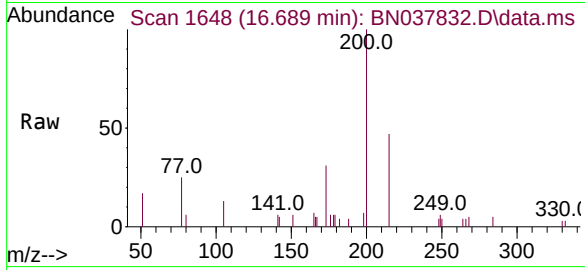
Tgt Ion:200 Resp: 1825

Ion Ratio Lower Upper

200 100

173 30.7 21.4 32.2

215 47.3 39.2 58.8



#24

Pentachlorophenol

Concen: 0.447 ng

RT: 16.875 min Scan# 1663

Delta R.T. -0.012 min

Lab File: BN037832.D

Acq: 20 Sep 2025 02:35

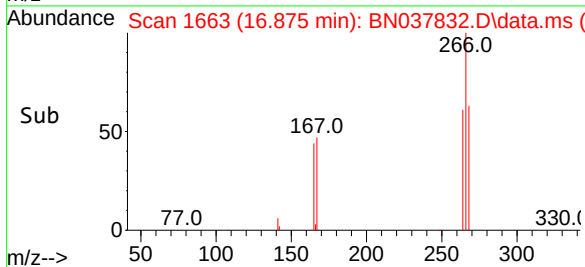
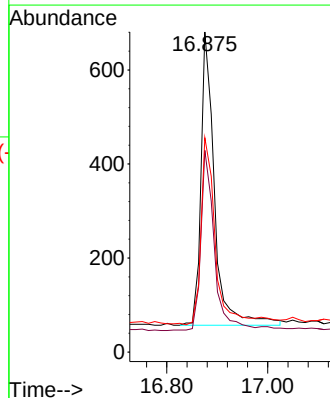
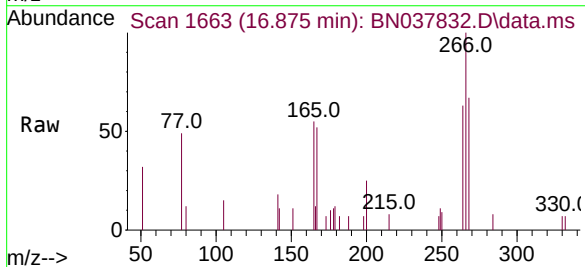
Tgt Ion:266 Resp: 1159

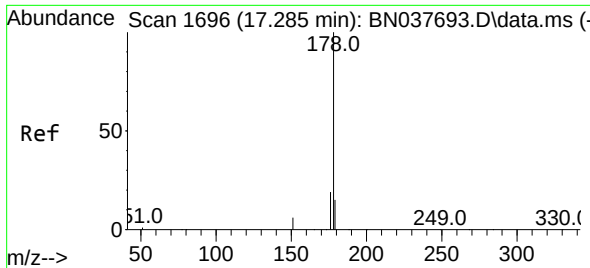
Ion Ratio Lower Upper

266 100

264 61.9 51.6 77.4

268 65.0 53.2 79.8

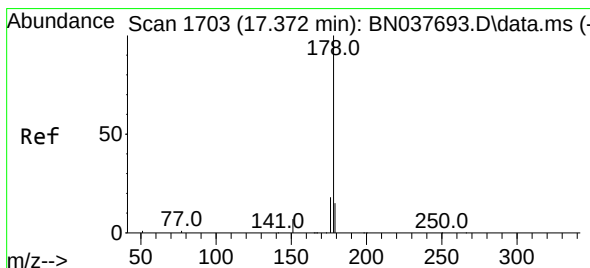
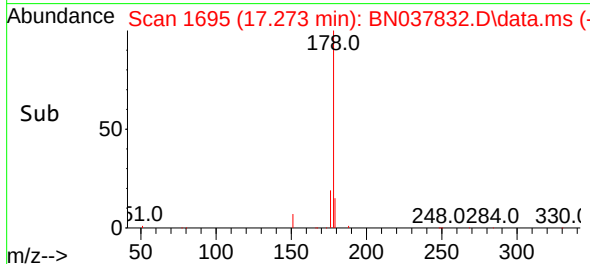
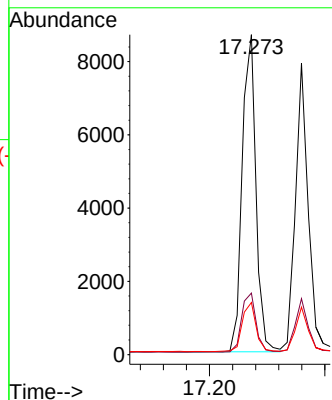
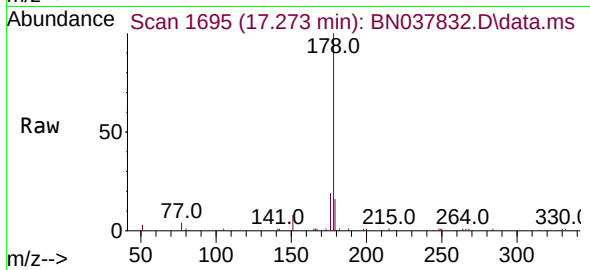




#25
Phenanthrene
Concen: 0.384 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.012 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

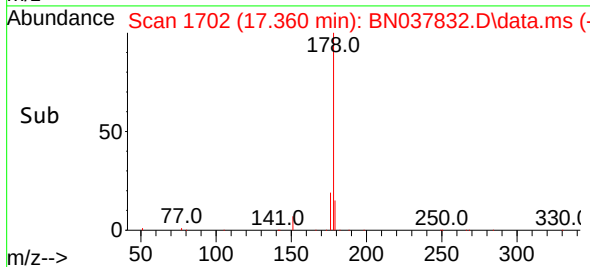
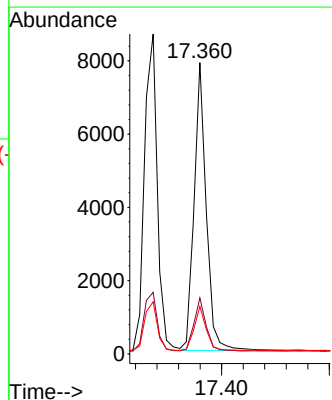
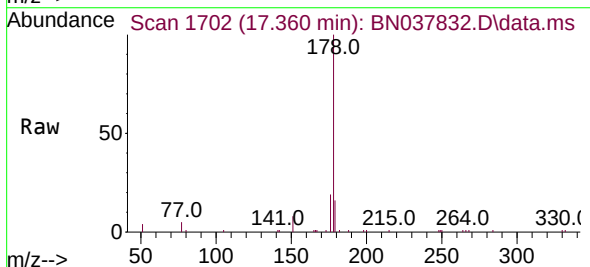
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

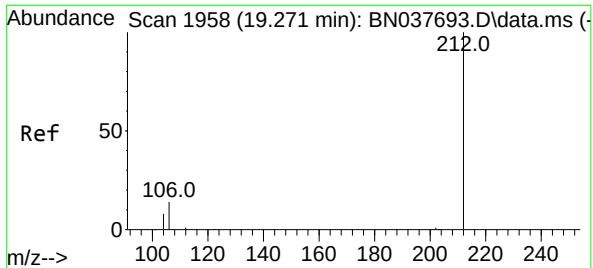
Tgt Ion:178 Resp: 14378
Ion Ratio Lower Upper
178 100
176 19.6 15.3 22.9
179 15.6 12.2 18.2



#26
Anthracene
Concen: 0.368 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:178 Resp: 12209
Ion Ratio Lower Upper
178 100
176 18.4 14.6 22.0
179 15.2 12.2 18.4

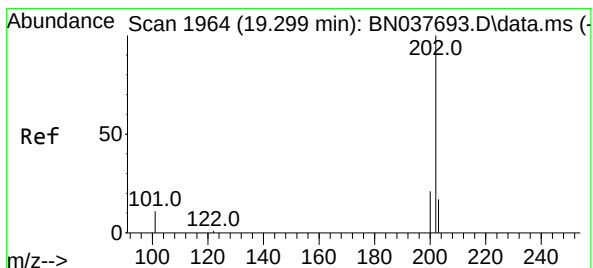
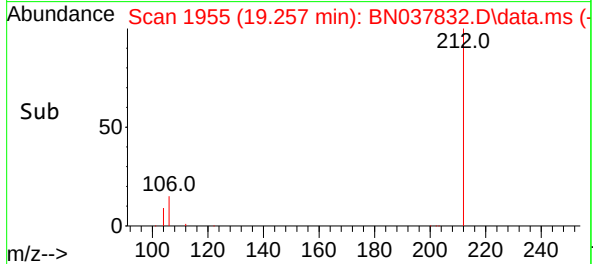
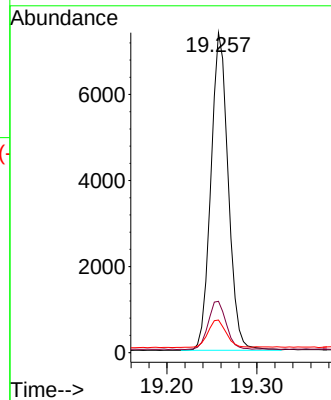
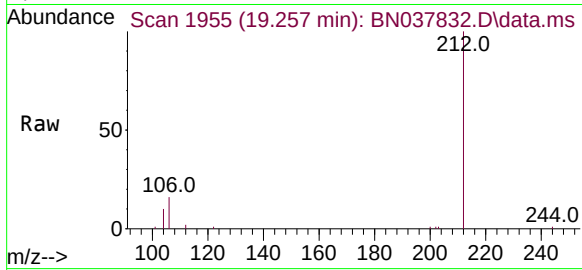




#27
Fluoranthene-d10
Concen: 0.331 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

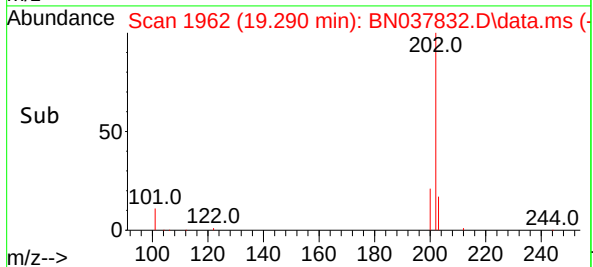
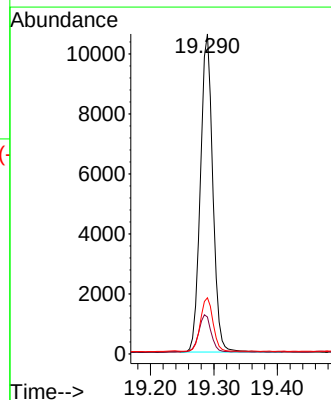
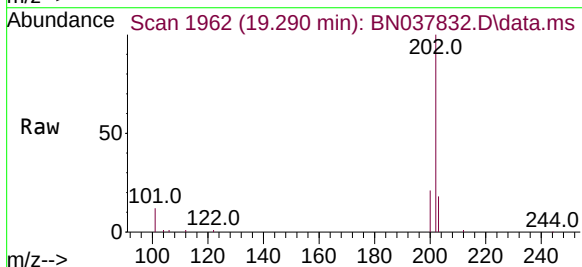
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

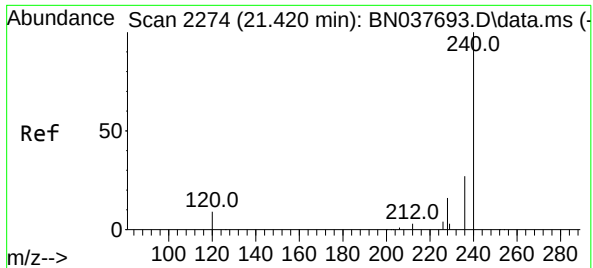
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.7	12.2	18.2
104	9.1	6.9	10.3



#28
Fluoranthene
Concen: 0.349 ng
RT: 19.290 min Scan# 1962
Delta R.T. -0.009 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.3	13.9
203	17.1	13.7	20.5

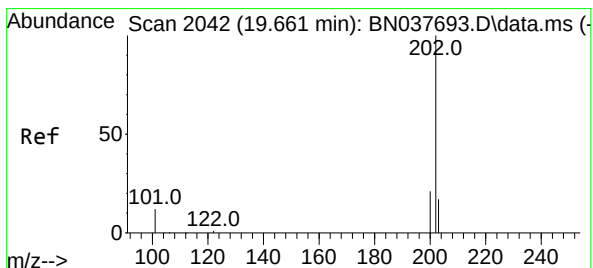
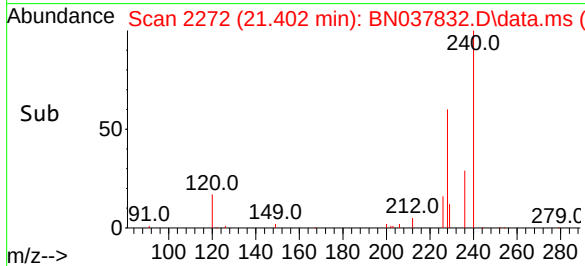
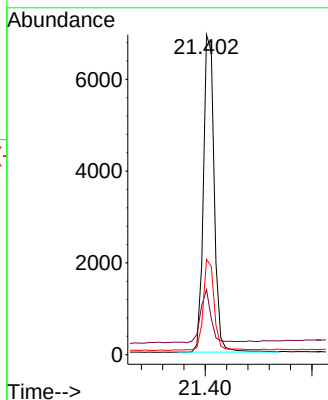
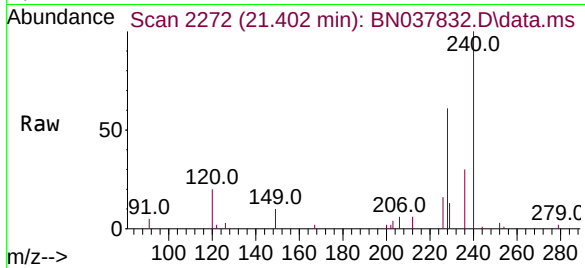




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

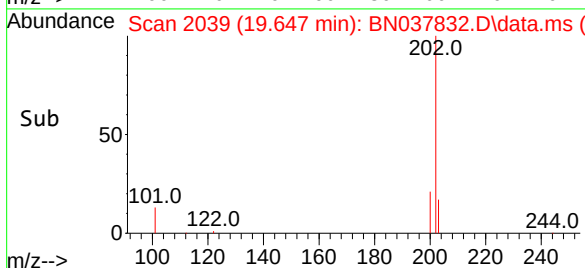
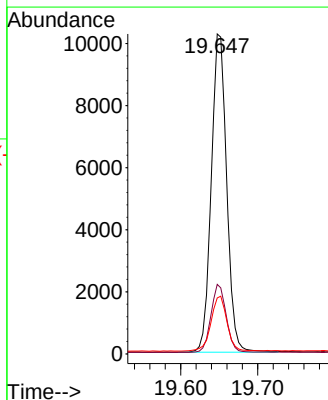
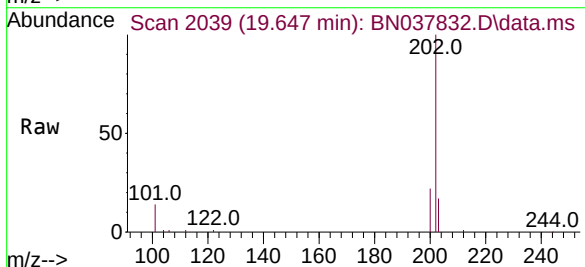
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

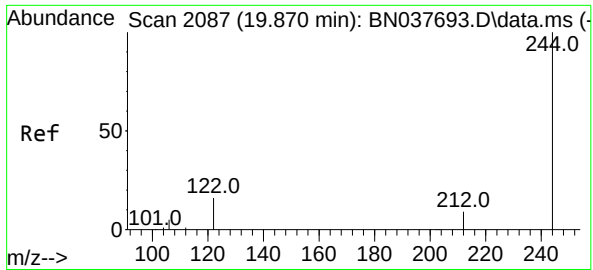
Tgt Ion:240 Resp: 9777
Ion Ratio Lower Upper
240 100
120 20.3 9.2 13.8#
236 29.8 22.6 33.8



#30
Pyrene
Concen: 0.372 ng
RT: 19.647 min Scan# 2039
Delta R.T. -0.014 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:202 Resp: 14225
Ion Ratio Lower Upper
202 100
200 21.2 16.8 25.2
203 17.9 14.3 21.5

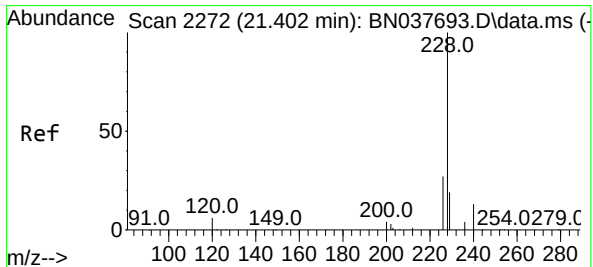
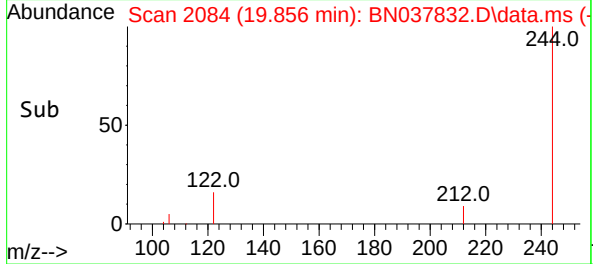
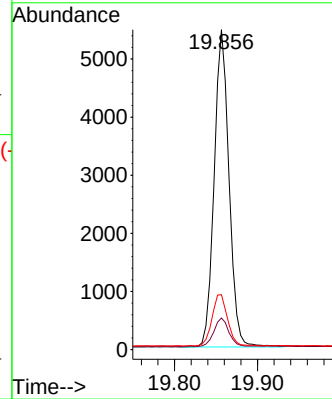
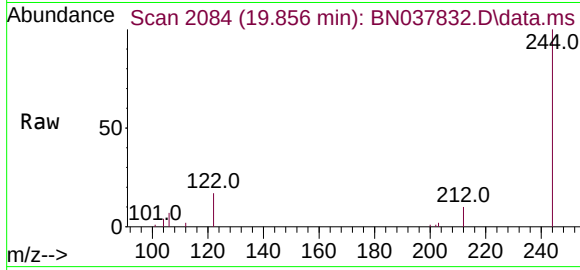




#31
Terphenyl-d14
Concen: 0.342 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

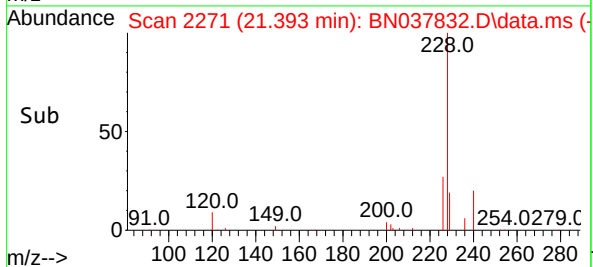
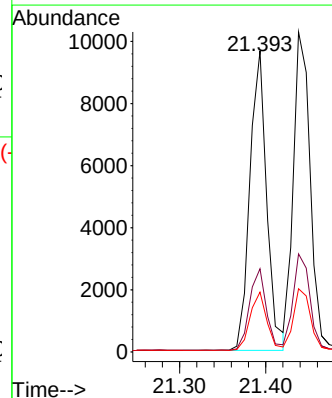
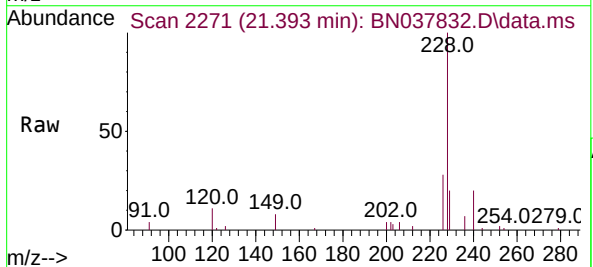
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

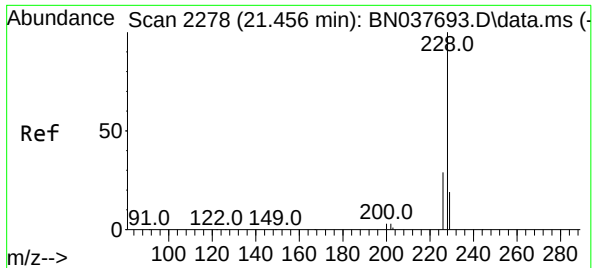
Tgt Ion:244 Resp: 6777
Ion Ratio Lower Upper
244 100
212 9.9 7.5 11.3
122 17.2 13.2 19.8



#32
Benzo(a)anthracene
Concen: 0.384 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:228 Resp: 13107
Ion Ratio Lower Upper
228 100
226 27.6 22.2 33.2
229 19.9 15.8 23.6

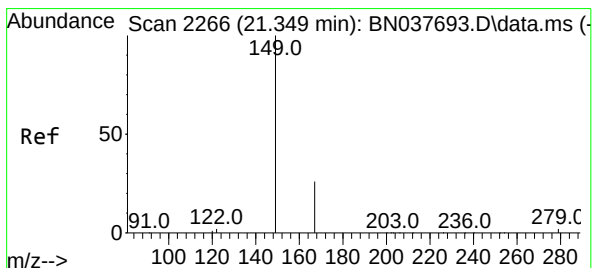
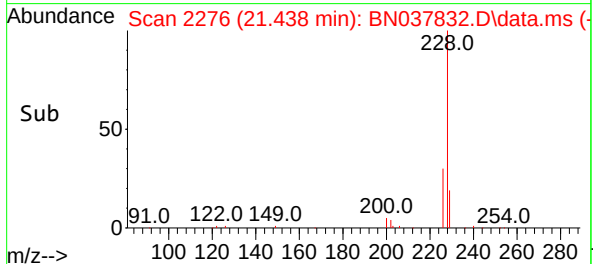
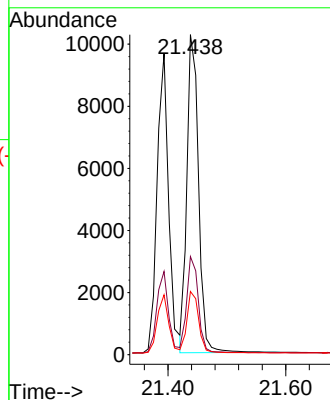
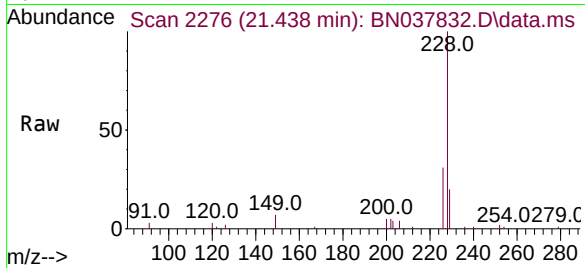




#33
Chrysene
Concen: 0.386 ng
RT: 21.438 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

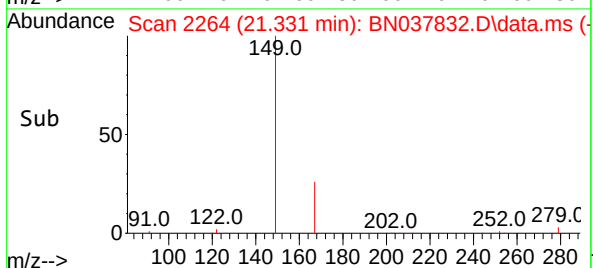
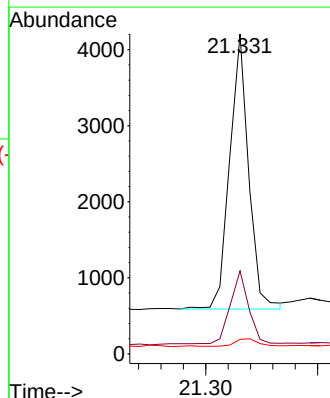
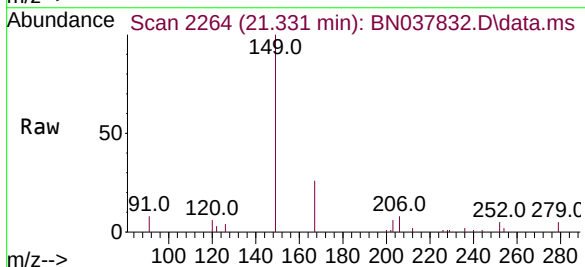
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

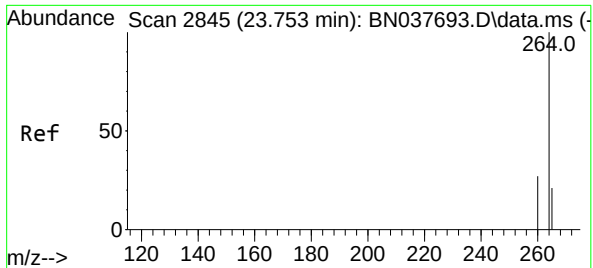
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	23.5	35.3
229	19.7	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.420 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.7	20.8	31.2
279	3.2	3.3	4.9#

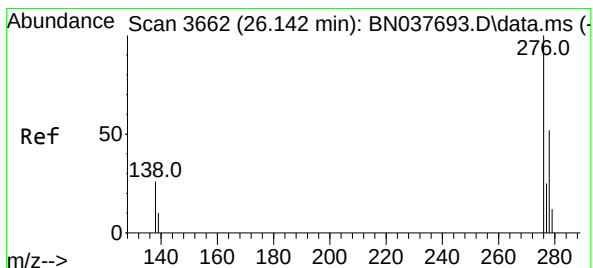
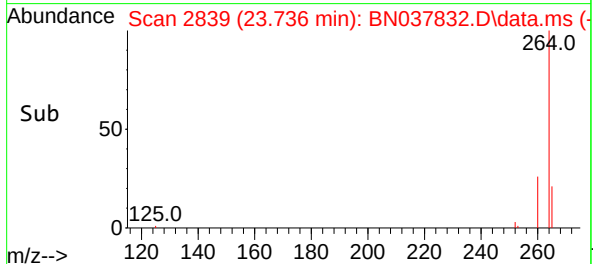
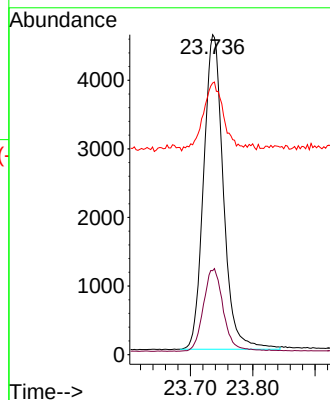
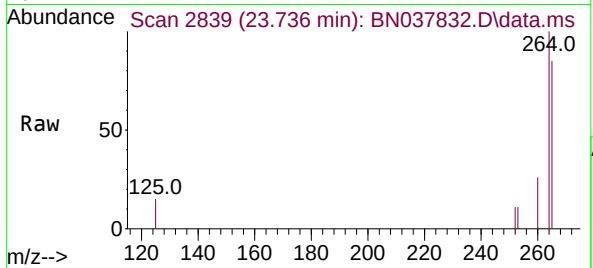




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 2845
Delta R.T. -0.018 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

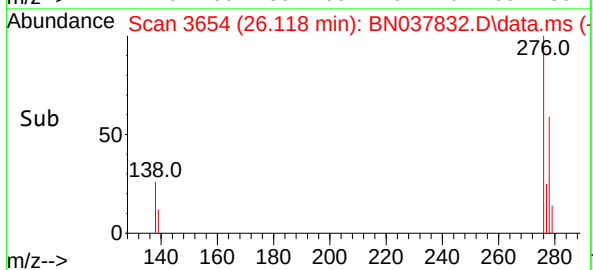
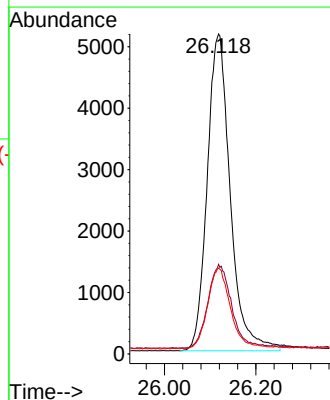
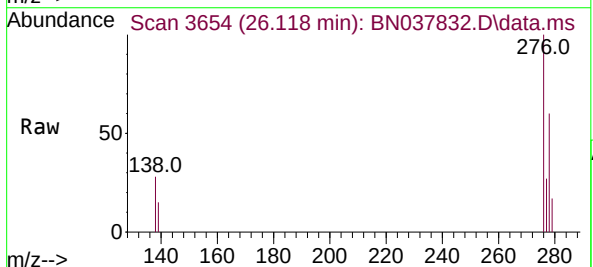
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

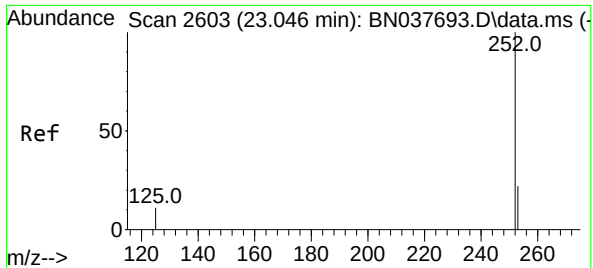
Tgt Ion	264	260	265
Resp:	10066		
Ratio	100	26.2	84.9
Lower		21.8	39.4
Upper		32.8	59.2#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.426 ng
RT: 26.118 min Scan# 3654
Delta R.T. -0.023 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion	276	138	277
Resp:	18036		
Ratio	100	27.1	25.3
Lower		21.9	20.1
Upper		32.9	30.1





#37

Benzo(b)fluoranthene

Concen: 0.399 ng

RT: 23.031 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN037832.D

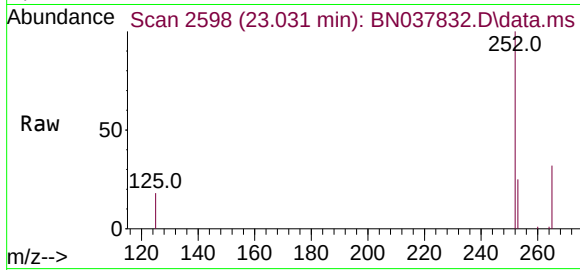
Acq: 20 Sep 2025 02:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



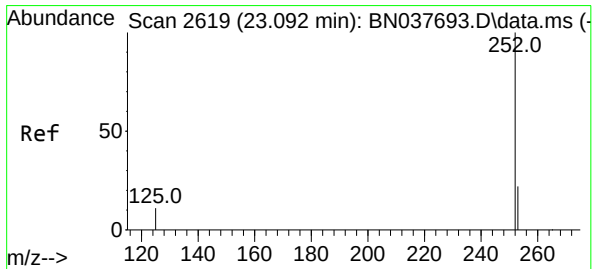
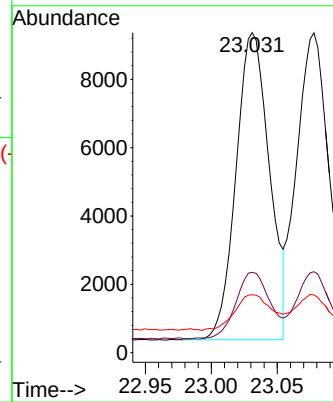
Tgt Ion:252 Resp: 15833

Ion Ratio Lower Upper

252 100

253 25.1 19.4 29.2

125 18.1 11.2 16.8#



#38

Benzo(k)fluoranthene

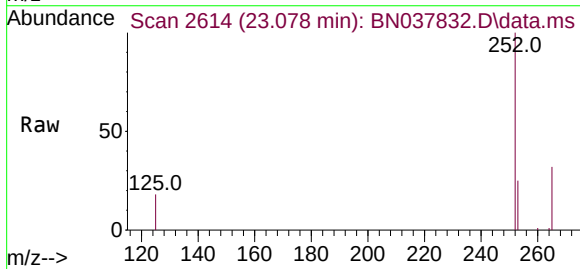
Concen: 0.390 ng

RT: 23.078 min Scan# 2614

Delta R.T. -0.015 min

Lab File: BN037832.D

Acq: 20 Sep 2025 02:35



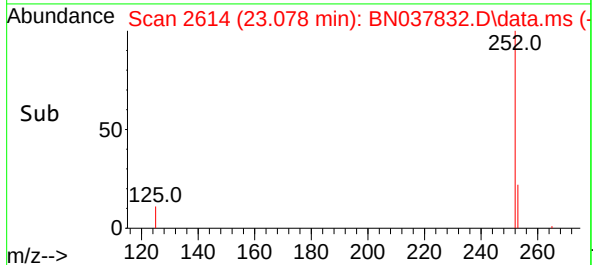
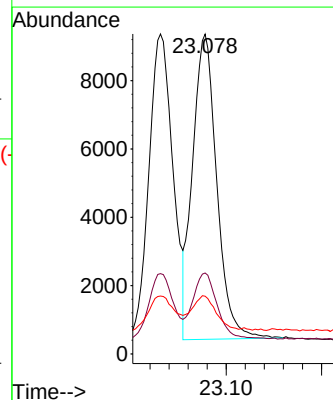
Tgt Ion:252 Resp: 15748

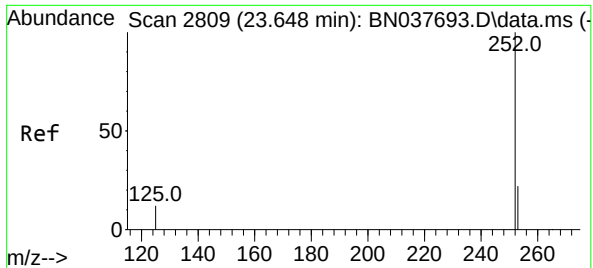
Ion Ratio Lower Upper

252 100

253 25.3 19.4 29.0

125 18.0 11.6 17.4#





#39

Benzo(a)pyrene

Concen: 0.393 ng

RT: 23.633 min Scan# 2804

Delta R.T. -0.015 min

Lab File: BN037832.D

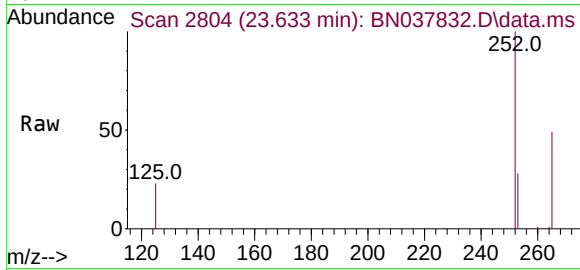
Acq: 20 Sep 2025 02:35

Instrument :

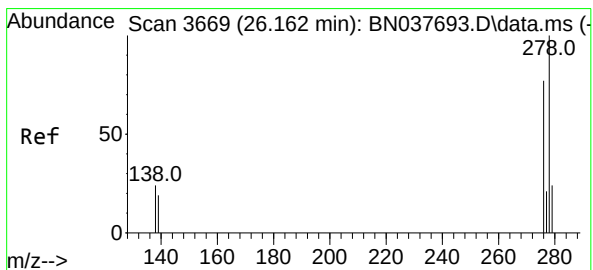
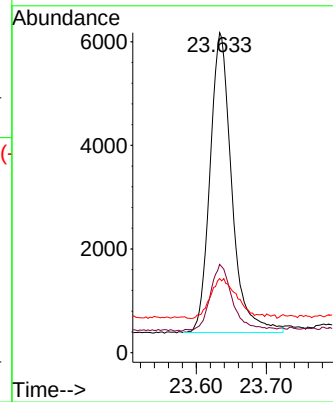
BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:	252	Resp:	12481
Ion Ratio	Lower	Upper	
252	100		
253	27.6	20.8	31.2
125	23.1	13.9	20.9



#40

Dibenzo(a,h)anthracene

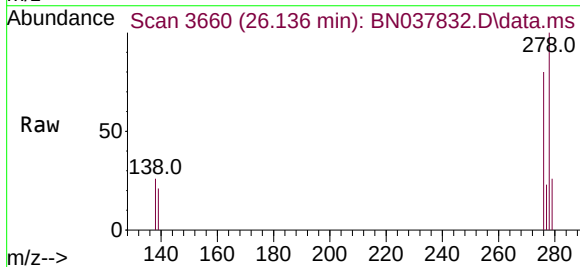
Concen: 0.418 ng

RT: 26.136 min Scan# 3660

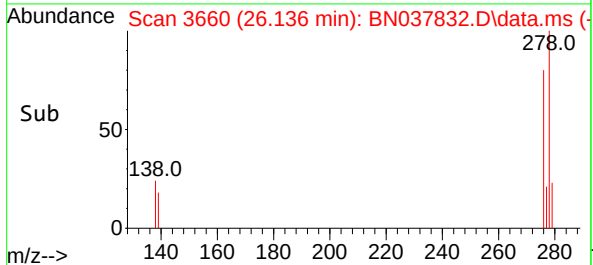
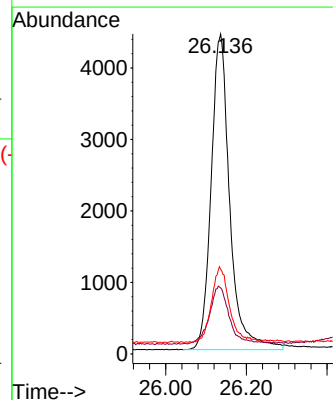
Delta R.T. -0.026 min

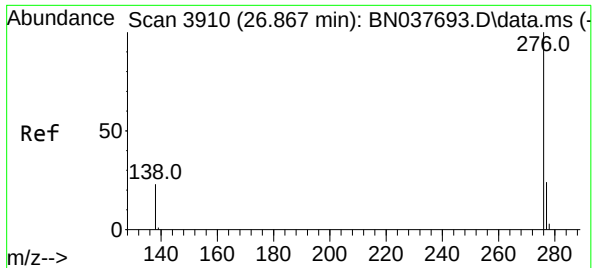
Lab File: BN037832.D

Acq: 20 Sep 2025 02:35



Tgt Ion:	278	Resp:	14128
Ion Ratio	Lower	Upper	
278	100		
139	20.6	17.8	26.6
279	26.4	22.0	33.0





#41

Benzo(g,h,i)perylene

Concen: 0.429 ng

RT: 26.841 min Scan# 3910

Delta R.T. -0.026 min

Lab File: BN037832.D

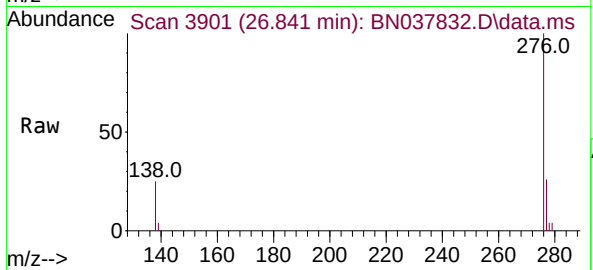
Acq: 20 Sep 2025 02:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



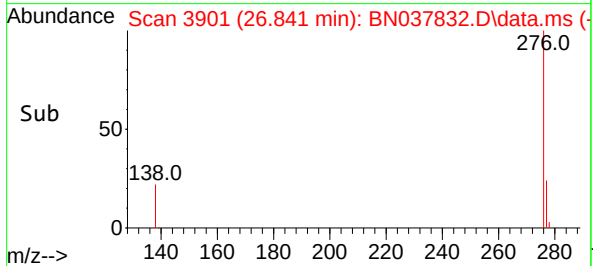
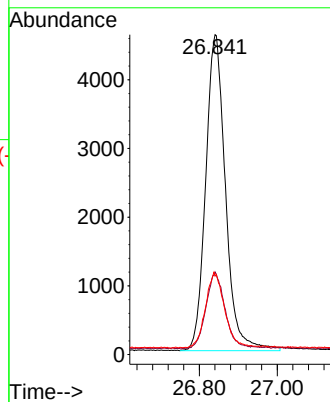
Tgt Ion:276 Resp: 16240

Ion Ratio Lower Upper

276 100

277 25.8 20.6 31.0

138 24.5 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
 Data File : BN037832.D
 Acq On : 20 Sep 2025 02:35
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 20 04:26:33 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	125	-0.01
2	1,4-Dioxane	0.417	0.400	4.1	118	0.00
3	n-Nitrosodimethylamine	0.544	0.478	12.1	106	0.00
4 S	2-Fluorophenol	0.918	0.870	5.2	122	0.00
5 S	Phenol-d6	1.191	1.110	6.8	120	0.00
6	bis(2-Chloroethyl)ether	1.064	1.034	2.8	121	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	125	-0.01
8 S	Nitrobenzene-d5	0.293	0.281	4.1	123	-0.01
9	Naphthalene	1.093	1.053	3.7	122	-0.01
10	Hexachlorobutadiene	0.198	0.186	6.1	118	-0.02
11 SURR	2-Methylnaphthalene-d10	0.530	0.469	11.5	117	-0.02
12	2-Methylnaphthalene	0.676	0.627	7.2	118	-0.02
13 I	Acenaphthene-d10	1.000	1.000	0.0	116	-0.01
14 S	2,4,6-Tribromophenol	0.104	0.112	-7.7	128	-0.01
15 S	2-Fluorobiphenyl	1.673	1.666	0.4	117	-0.01
16	Acenaphthylene	1.834	1.702	7.2	110	-0.01
17	Acenaphthene	1.240	1.160	6.5	110	-0.01
18	Fluorene	1.502	1.342	10.7	108	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	106	-0.01
20	4,6-Dinitro-2-methylphenol	0.037	0.025	32.4#	81	-0.01
21	4-Bromophenyl-phenylether	0.261	0.252	3.4	106	-0.01
22	Hexachlorobenzene	0.300	0.317	-5.7	114	-0.01
23	Atrazine	0.166	0.153	7.8	107	-0.01
24	Pentachlorophenol	0.087	0.097	-11.5	138	-0.01
25	Phenanthrene	1.259	1.208	4.1	104	-0.01
26	Anthracene	1.116	1.025	8.2	101	-0.01
27 SURR	Fluoranthene-d10	1.004	0.832	17.1	94	-0.01
28	Fluoranthene	1.381	1.204	12.8	97	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	104	-0.02
30	Pyrene	1.566	1.455	7.1	98	-0.01
31 S	Terphenyl-d14	0.812	0.693	14.7	90	-0.01
32	Benzo(a)anthracene	1.395	1.341	3.9	104	0.00
33	Chrysene	1.496	1.443	3.5	101	-0.02
34	Bis(2-ethylhexyl)phthalate	0.414	0.435	-5.1	121	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	112	-0.02
36	Indeno(1,2,3-cd)pyrene	1.681	1.792	-6.6	130	-0.02
37	Benzo(b)fluoranthene	1.575	1.573	0.1	114	-0.01
38	Benzo(k)fluoranthene	1.606	1.564	2.6	115	-0.01
39 C	Benzo(a)pyrene	1.261	1.240	1.7	116	-0.01
40	Dibenzo(a,h)anthracene	1.342	1.404	-4.6	130	-0.03
41	Benzo(g,h,i)perylene	1.506	1.613	-7.1	125	-0.03

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
 Data File : BN037832.D
 Acq On : 20 Sep 2025 02:35
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 20 04:26:33 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	125	-0.01
2	1,4-Dioxane	0.400	0.384	4.0	118	0.00
3	n-Nitrosodimethylamine	0.400	0.351	12.3	106	0.00
4 S	2-Fluorophenol	0.400	0.379	5.3	122	0.00
5 S	Phenol-d6	0.400	0.373	6.8	120	0.00
6	bis(2-Chloroethyl)ether	0.400	0.389	2.8	121	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	125	-0.01
8 S	Nitrobenzene-d5	0.400	0.385	3.8	123	-0.01
9	Naphthalene	0.400	0.385	3.8	122	-0.01
10	Hexachlorobutadiene	0.400	0.377	5.8	118	-0.02
11 SURR	2-Methylnaphthalene-d10	0.400	0.354	11.5	117	-0.02
12	2-Methylnaphthalene	0.400	0.371	7.3	118	-0.02
13 I	Acenaphthene-d10	0.400	0.400	0.0	116	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.428	-7.0	128	-0.01
15 S	2-Fluorobiphenyl	0.400	0.398	0.5	117	-0.01
16	Acenaphthylene	0.400	0.371	7.3	110	-0.01
17	Acenaphthene	0.400	0.374	6.5	110	-0.01
18	Fluorene	0.400	0.357	10.8	108	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	106	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.272	32.0#	81	-0.01
21	4-Bromophenyl-phenylether	0.400	0.386	3.5	106	-0.01
22	Hexachlorobenzene	0.400	0.423	-5.7	114	-0.01
23	Atrazine	0.400	0.369	7.8	107	-0.01
24	Pentachlorophenol	0.400	0.447	-11.7	138	-0.01
25	Phenanthrene	0.400	0.384	4.0	104	-0.01
26	Anthracene	0.400	0.368	8.0	101	-0.01
27 SURR	Fluoranthene-d10	0.400	0.331	17.3	94	-0.01
28	Fluoranthene	0.400	0.349	12.8	97	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	104	-0.02
30	Pyrene	0.400	0.372	7.0	98	-0.01
31 S	Terphenyl-d14	0.400	0.342	14.5	90	-0.01
32	Benzo(a)anthracene	0.400	0.384	4.0	104	0.00
33	Chrysene	0.400	0.386	3.5	101	-0.02
34	Bis(2-ethylhexyl)phthalate	0.400	0.420	-5.0	121	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	112	-0.02
36	Indeno(1,2,3-cd)pyrene	0.400	0.426	-6.5	130	-0.02
37	Benzo(b)fluoranthene	0.400	0.399	0.3	114	-0.01
38	Benzo(k)fluoranthene	0.400	0.390	2.5	115	-0.01
39 C	Benzo(a)pyrene	0.400	0.393	1.8	116	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.418	-4.5	130	-0.03
41	Benzo(g,h,i)perylene	0.400	0.429	-7.2	125	-0.03

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>AECO15</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3095</u>
Instrument ID:	<u>BNA_N</u>	Calibration Date/Time:	<u>09/20/2025 11:39</u>
Lab File ID:	<u>BN037847.D</u>	Init. Calib. Date(s):	<u>09/11/2025 09/11/2025</u>
EPA Sample No.:	<u>SSTDCCC0.4EC</u>	Init. Calib. Time(s):	<u>09:56 13:33</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.470		-11.3	50.0
Fluoranthene-d10	1.004	0.915		-8.9	50.0
2-Fluorophenol	0.918	0.876		-4.6	50.0
Phenol-d6	1.191	1.109		-6.9	50.0
Nitrobenzene-d5	0.293	0.288		-1.7	50.0
2-Fluorobiphenyl	1.673	1.607		-3.9	50.0
2,4,6-Tribromophenol	0.104	0.123		18.3	50.0
Terphenyl-d14	0.812	0.706		-13.1	50.0
1,4-Dioxane	0.417	0.423		1.4	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
 Data File : BN037847.D
 Acq On : 20 Sep 2025 11:39
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Sep 22 00:38:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

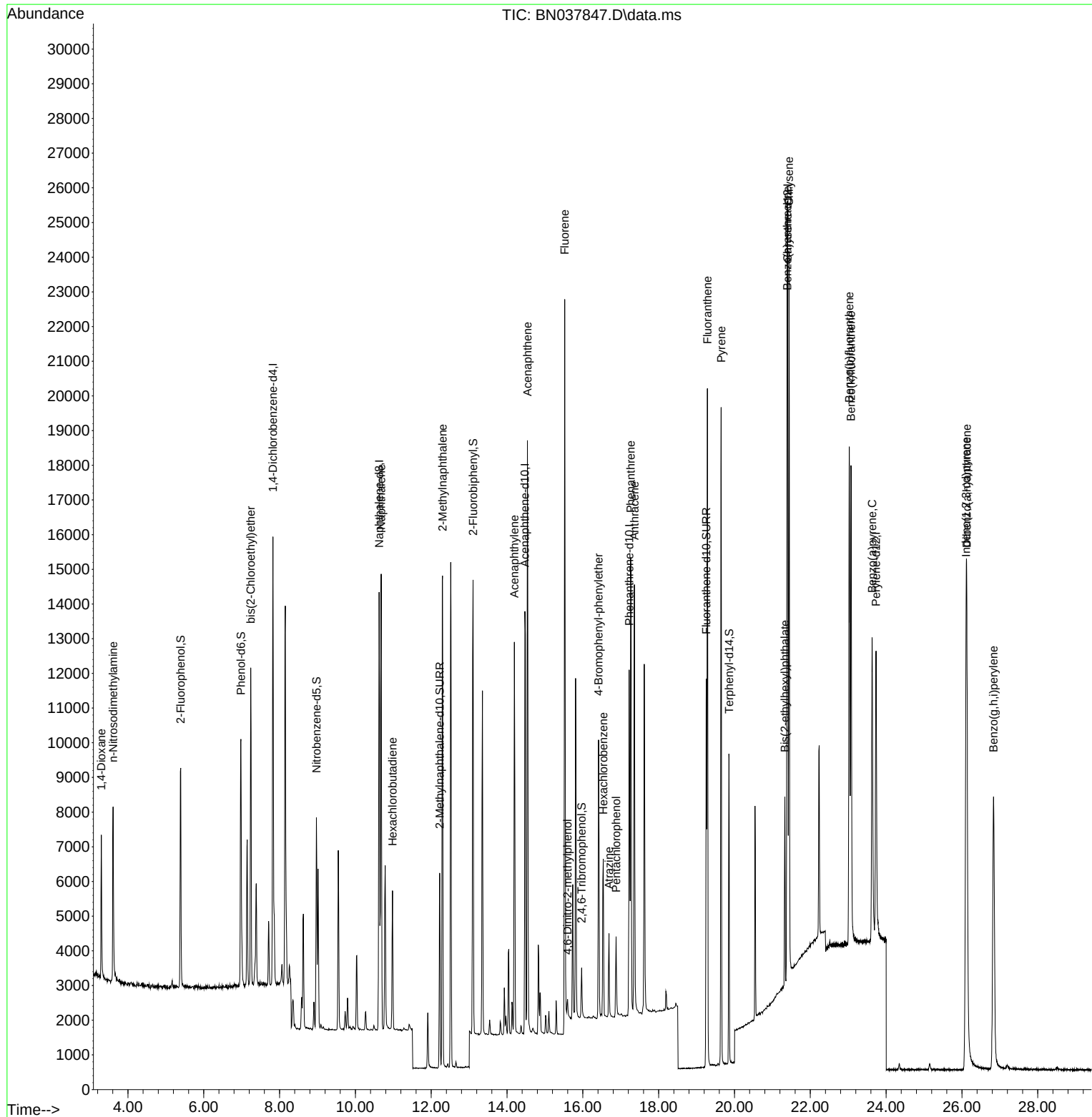
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	6137	0.400	ng	-0.01
7) Naphthalene-d8	10.626	136	16197	0.400	ng	-0.02
13) Acenaphthene-d10	14.473	164	7238	0.400	ng	-0.02
19) Phenanthrene-d10	17.223	188	13073	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	12006	0.400	ng	#-0.02
35) Perylene-d12	23.736	264	11862	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	5373	0.381	ng	0.00
5) Phenol-d6	6.980	99	6805	0.373	ng	0.00
8) Nitrobenzene-d5	8.971	82	4665	0.394	ng	-0.02
11) 2-Methylnaphthalene-d10	12.222	152	7614	0.355	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	891	0.472	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	11631	0.384	ng	-0.01
27) Fluoranthene-d10	19.257	212	11964	0.365	ng	-0.01
31) Terphenyl-d14	19.856	244	8481	0.348	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	2596	0.406	ng	95
3) n-Nitrosodimethylamine	3.608	42	3185	0.381	ng	92
6) bis(2-Chloroethyl)ether	7.240	93	6315	0.387	ng	99
9) Naphthalene	10.680	128	17021	0.384	ng	99
10) Hexachlorobutadiene	10.979	225	3043	0.380	ng	# 100
12) 2-Methylnaphthalene	12.298	142	10117	0.369	ng	99
16) Acenaphthylene	14.195	152	12119	0.365	ng	100
17) Acenaphthene	14.537	154	8461	0.377	ng	97
18) Fluorene	15.522	166	9893	0.364	ng	98
20) 4,6-Dinitro-2-methylph...	15.597	198	396	0.327	ng	87
21) 4-Bromophenyl-phenylether	16.416	248	3095	0.363	ng	# 74
22) Hexachlorobenzene	16.540	284	3993	0.407	ng	98
23) Atrazine	16.689	200	1936	0.357	ng	100
24) Pentachlorophenol	16.875	266	1204	0.423	ng	98
25) Phenanthrene	17.260	178	15813	0.384	ng	99
26) Anthracene	17.359	178	13675	0.375	ng	100
28) Fluoranthene	19.285	202	17285	0.383	ng	100
30) Pyrene	19.647	202	17226	0.367	ng	100
32) Benzo(a)anthracene	21.393	228	15817	0.378	ng	99
33) Chrysene	21.438	228	17106	0.381	ng	97
34) Bis(2-ethylhexyl)phtha...	21.331	149	4990	0.402	ng	99
36) Indeno(1,2,3-cd)pyrene	26.110	276	20571	0.413	ng	100
37) Benzo(b)fluoranthene	23.028	252	18556	0.397	ng	97
38) Benzo(k)fluoranthene	23.075	252	19102	0.401	ng	97
39) Benzo(a)pyrene	23.630	252	14379	0.384	ng	# 96
40) Dibenzo(a,h)anthracene	26.127	278	15603	0.392	ng	98
41) Benzo(g,h,i)perylene	26.835	276	17395	0.390	ng	99

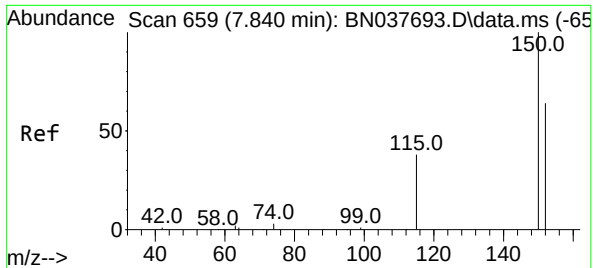
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
 Data File : BN037847.D
 Acq On : 20 Sep 2025 11:39
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

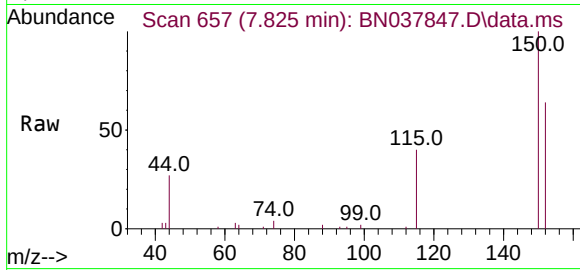
Quant Time: Sep 22 00:38:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration



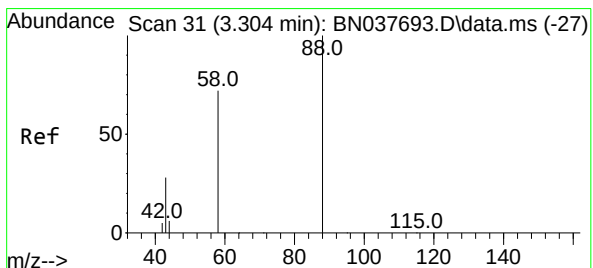
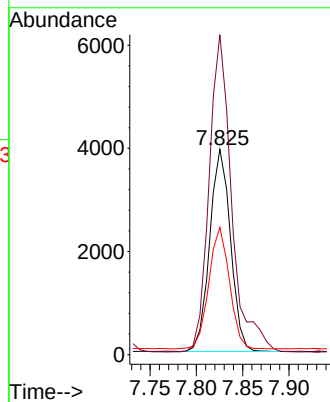
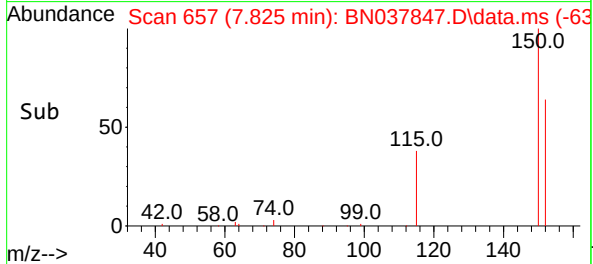


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

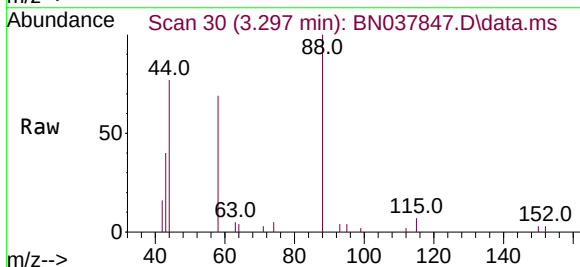
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



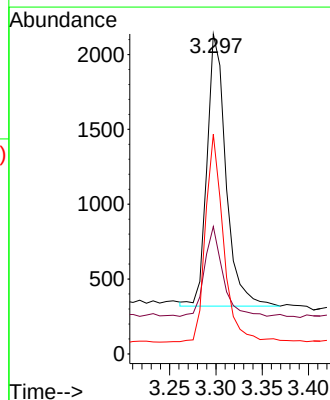
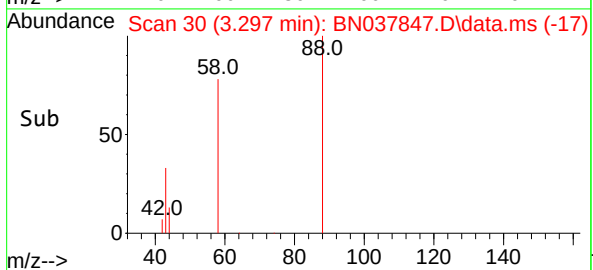
Tgt Ion:152 Resp: 6137
Ion Ratio Lower Upper
152 100
150 155.9 124.5 186.7
115 62.0 49.2 73.8



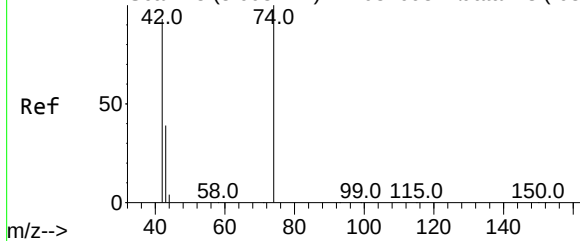
#2
1,4-Dioxane
Concen: 0.406 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39



Tgt Ion: 88 Resp: 2596
Ion Ratio Lower Upper
88 100
43 31.8 26.8 40.2
58 72.9 61.9 92.9



Abundance Scan 73 (3.608 min): BN037693.D\data.ms (-68)



#3

n-Nitrosodimethylamine

Concen: 0.381 ng

RT: 3.608 min Scan# 73

Delta R.T. -0.000 min

Lab File: BN037847.D

Acq: 20 Sep 2025 11:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion: 42 Resp: 3185

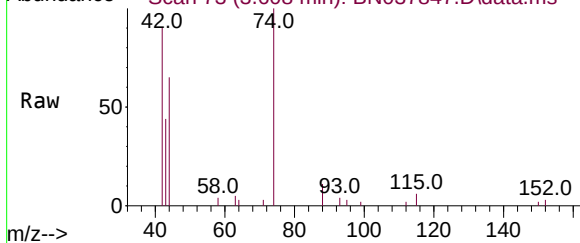
Ion Ratio Lower Upper

42 100

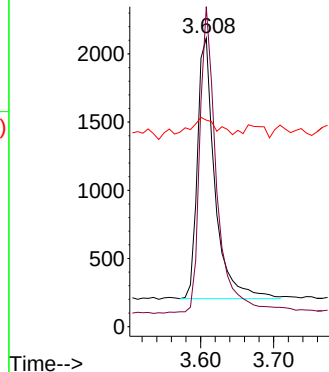
74 116.1 86.0 129.0

44 8.6 8.4 12.6

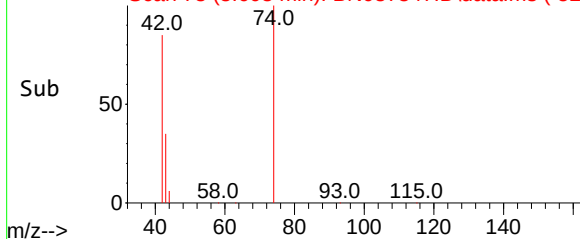
Abundance Scan 73 (3.608 min): BN037847.D\data.ms



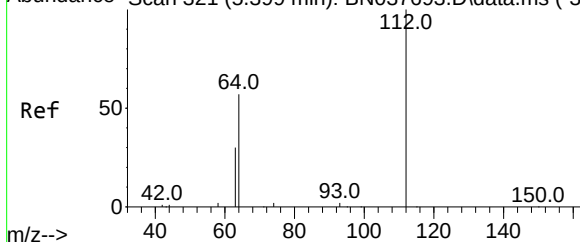
Abundance



Abundance Scan 73 (3.608 min): BN037847.D\data.ms (-52)



Abundance Scan 321 (5.399 min): BN037693.D\data.ms (-30)



#4

2-Fluorophenol

Concen: 0.381 ng

RT: 5.392 min Scan# 320

Delta R.T. -0.007 min

Lab File: BN037847.D

Acq: 20 Sep 2025 11:39

Tgt Ion: 112 Resp: 5373

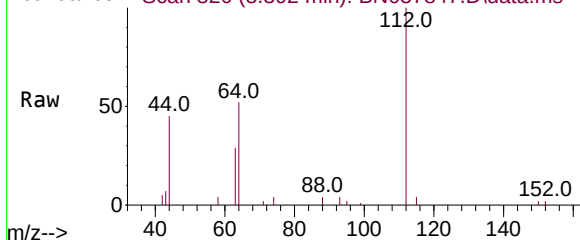
Ion Ratio Lower Upper

112 100

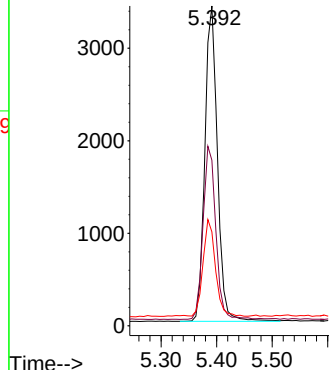
64 55.7 44.9 67.3

63 29.9 24.7 37.1

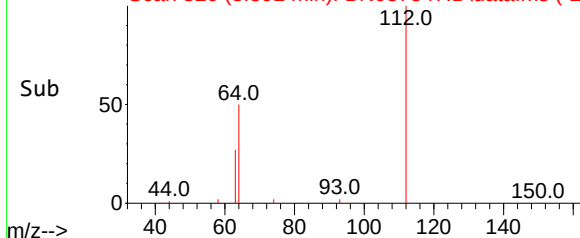
Abundance Scan 320 (5.392 min): BN037847.D\data.ms

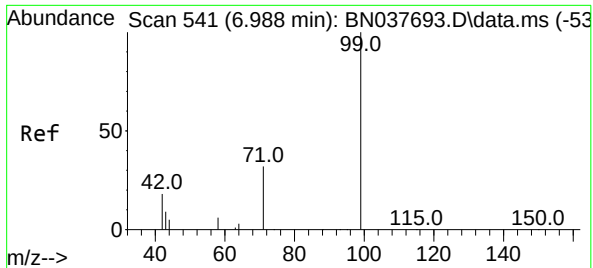


Abundance



Abundance Scan 320 (5.392 min): BN037847.D\data.ms (-29)

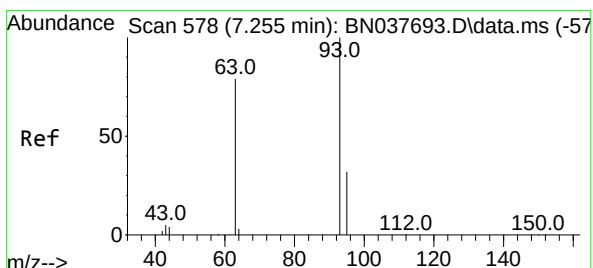
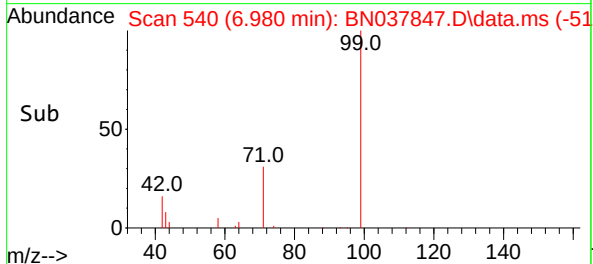
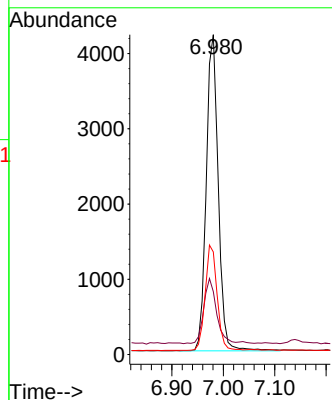
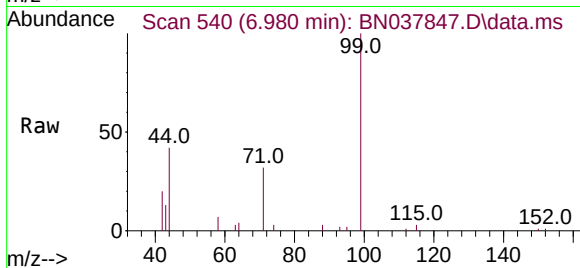




#5
Phenol-d6
Concen: 0.373 ng
RT: 6.980 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

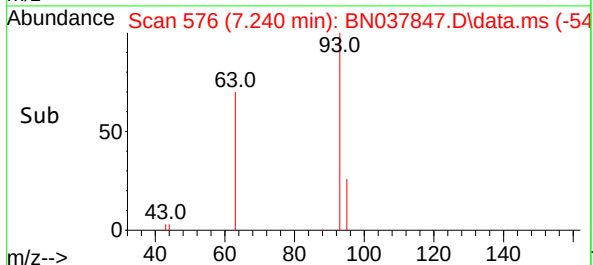
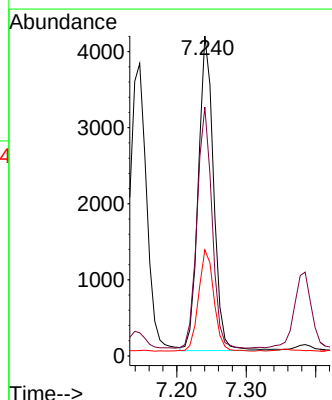
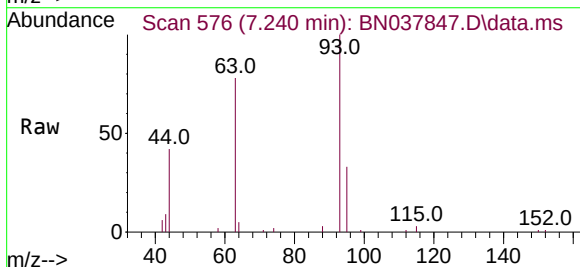
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

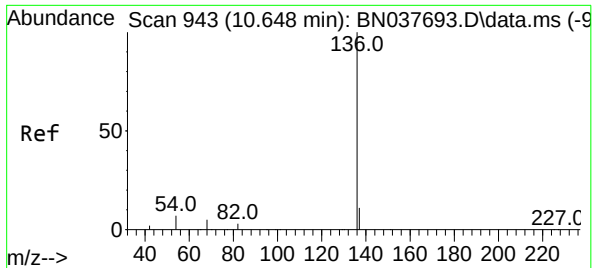
Tgt Ion: 99 Resp: 6805
Ion Ratio Lower Upper
99 100
42 21.6 16.6 24.8
71 33.1 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.387 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.015 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion: 93 Resp: 6315
Ion Ratio Lower Upper
93 100
63 75.2 60.6 90.8
95 32.2 26.0 39.0

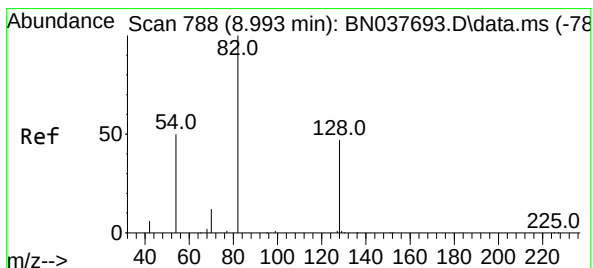
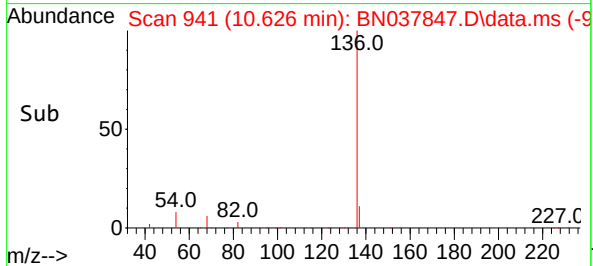
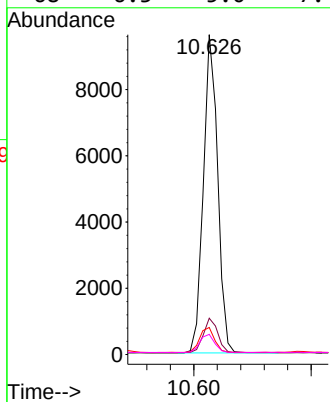
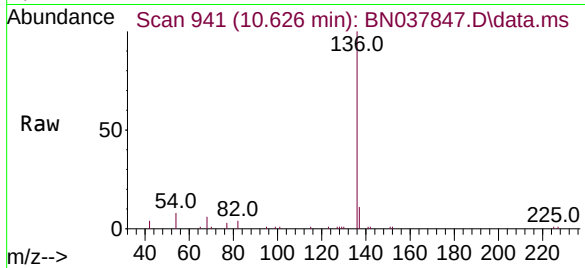




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. -0.021 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

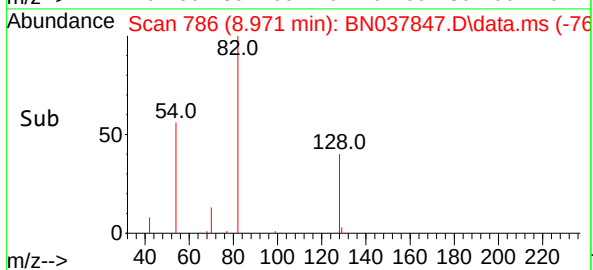
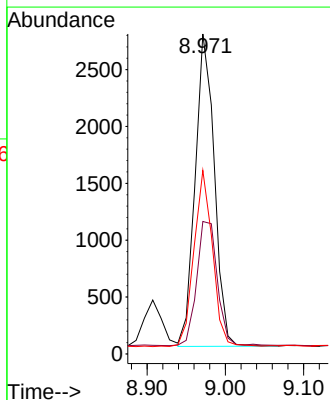
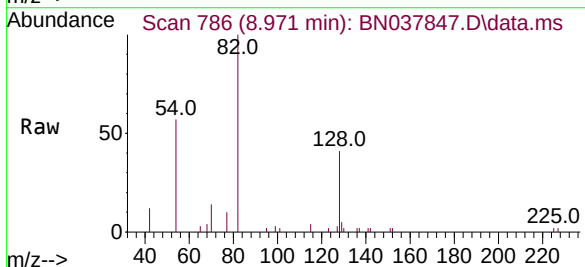
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

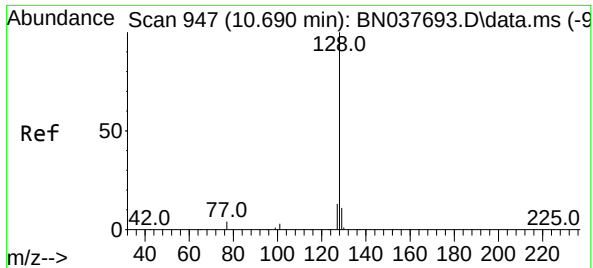
Tgt Ion:	136	Resp:	16197
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	8.5	6.3	9.5
68	6.3	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.394 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.021 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:	82	Resp:	4665
Ion	Ratio	Lower	Upper
82	100		
128	41.4	38.3	57.5
54	57.4	41.4	62.2

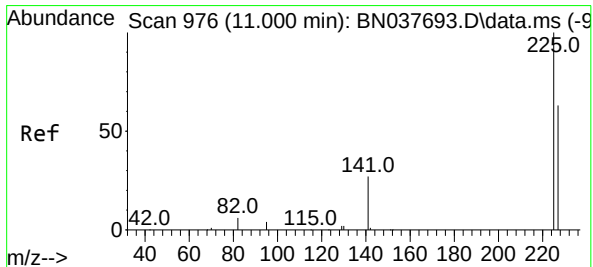
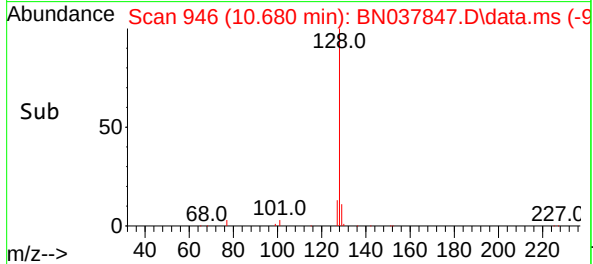
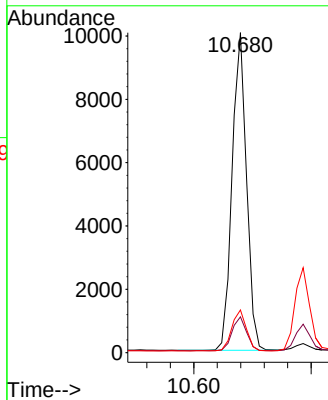
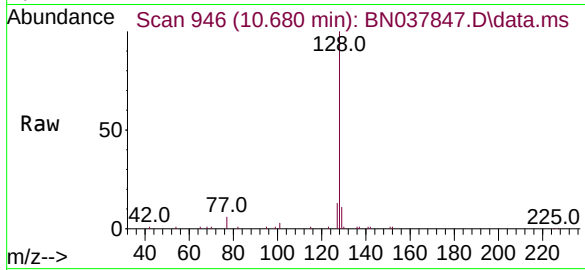




#9
Naphthalene
Concen: 0.384 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

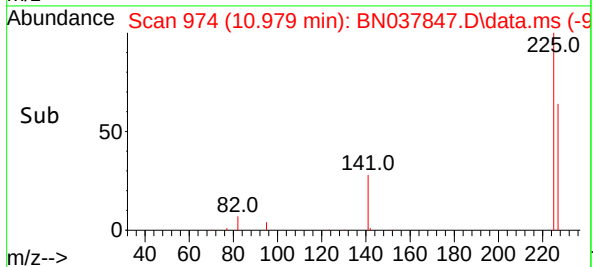
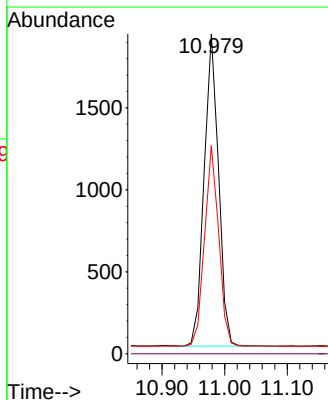
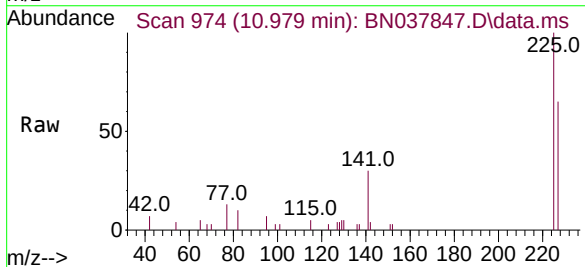
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

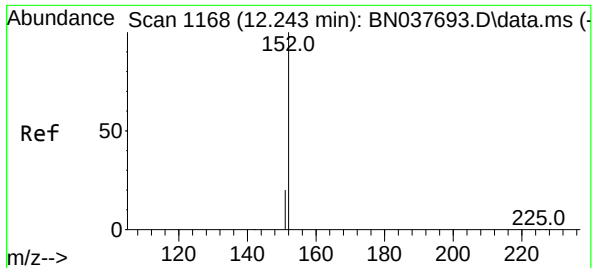
Tgt Ion:128 Resp: 17021
Ion Ratio Lower Upper
128 100
129 11.2 9.1 13.7
127 13.3 10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.380 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.021 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:225 Resp: 3043
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 50.9 76.3

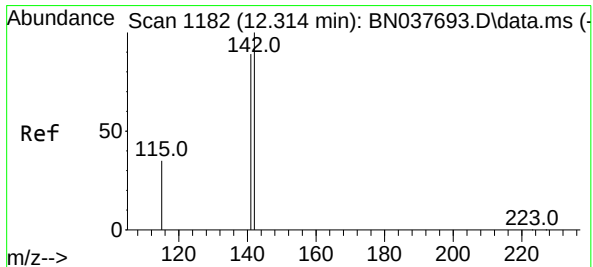
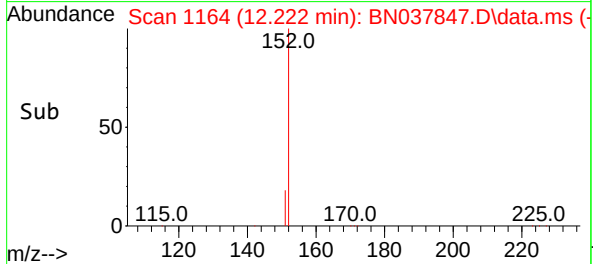
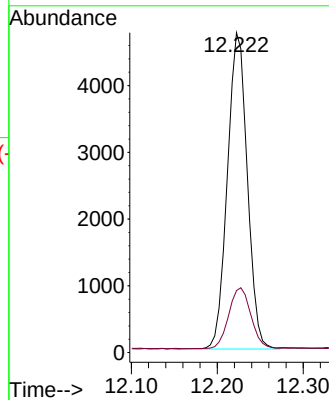
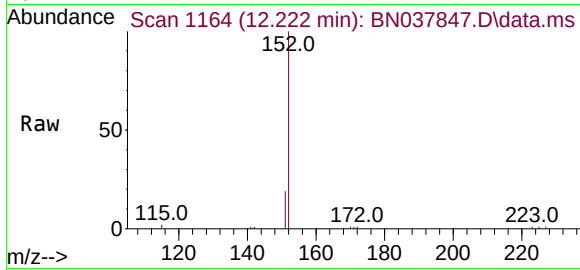




#11
2-Methylnaphthalene-d10
Concen: 0.355 ng
RT: 12.222 min Scan# 1164
Delta R.T. -0.020 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

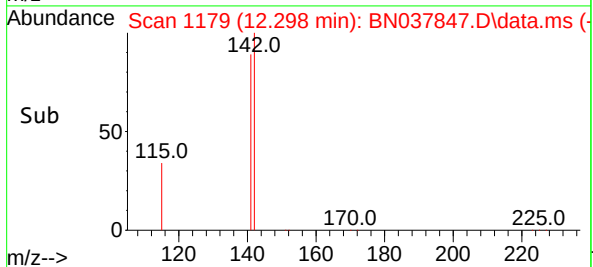
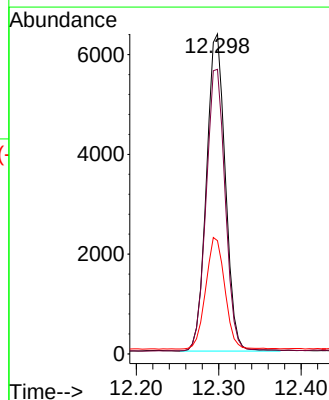
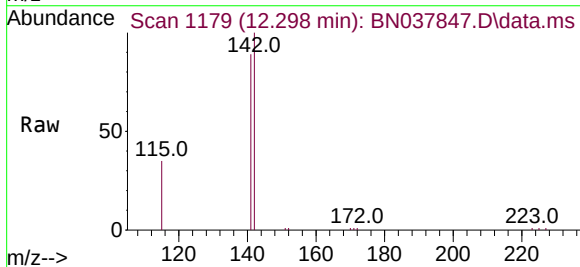
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

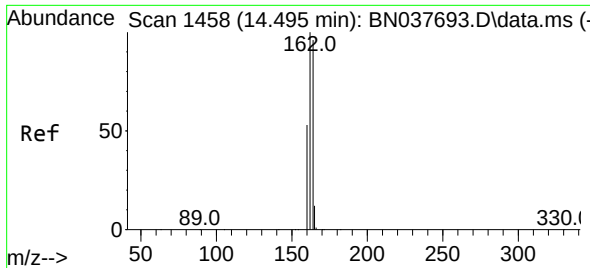
Tgt Ion:152 Resp: 7614
Ion Ratio Lower Upper
152 100
151 21.5 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.369 ng
RT: 12.298 min Scan# 1179
Delta R.T. -0.015 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:142 Resp: 10117
Ion Ratio Lower Upper
142 100
141 88.9 71.6 107.4
115 35.4 28.6 43.0

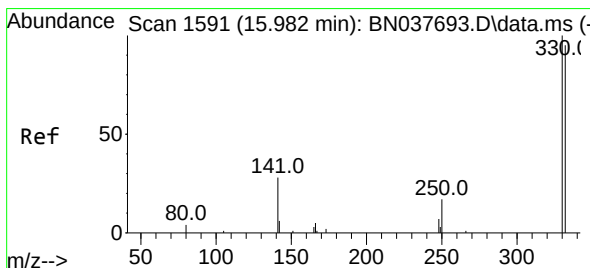
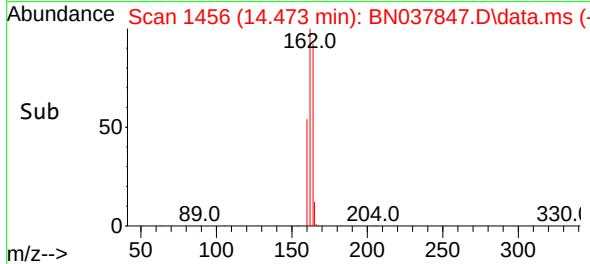
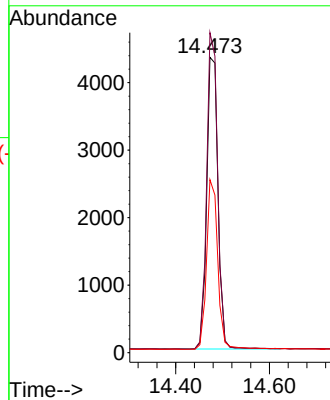
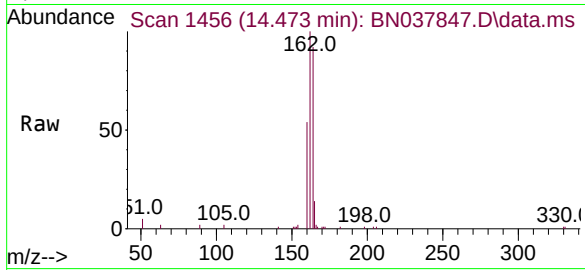




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. -0.022 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

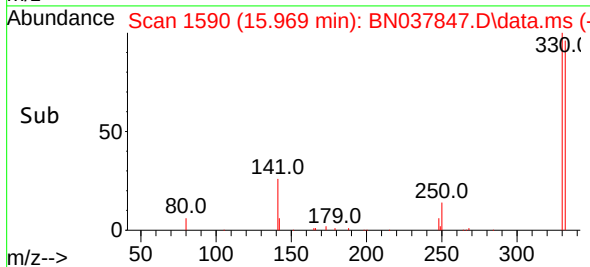
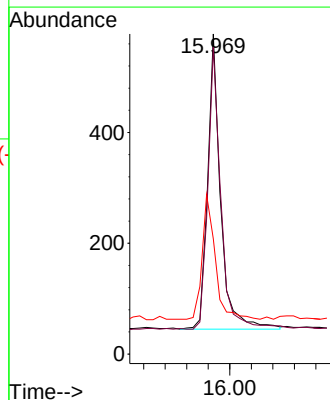
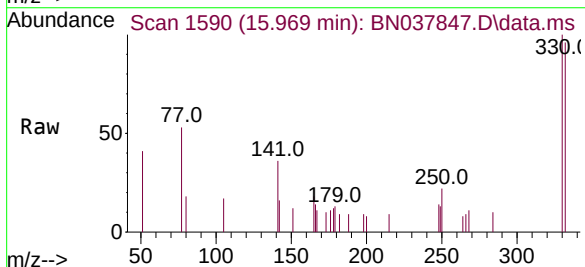
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

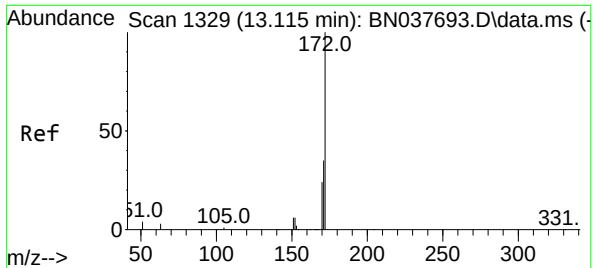
Tgt Ion:164 Resp: 7238
Ion Ratio Lower Upper
164 100
162 108.4 83.1 124.7
160 58.5 44.3 66.5



#14
2,4,6-Tribromophenol
Concen: 0.472 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:330 Resp: 891
Ion Ratio Lower Upper
330 100
332 96.3 75.3 112.9
141 42.8 35.0 52.4

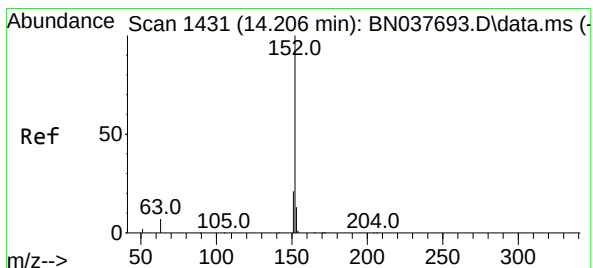
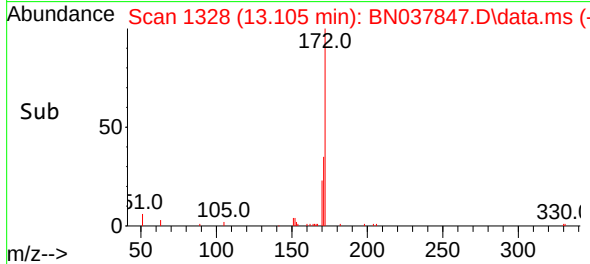
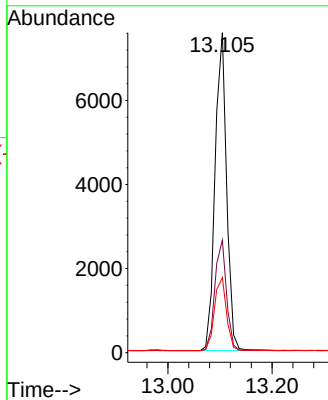
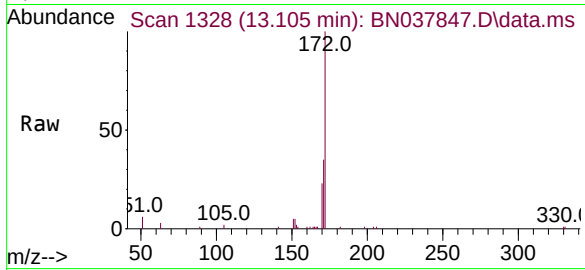




#15
2-Fluorobiphenyl
Concen: 0.384 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

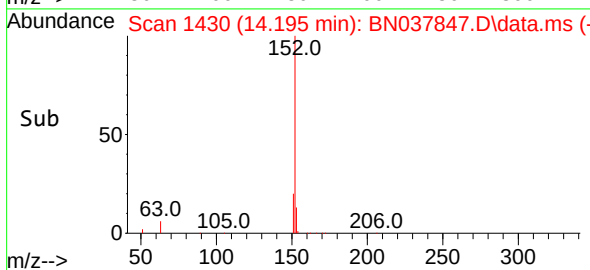
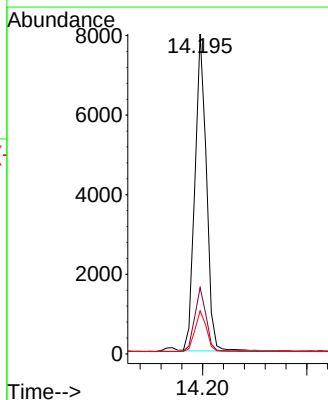
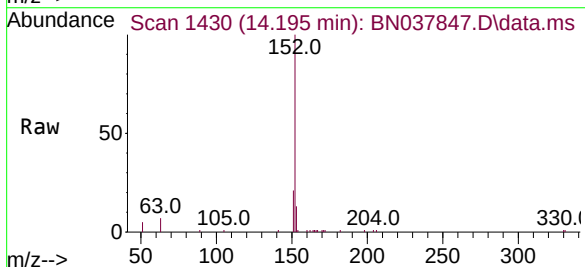
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

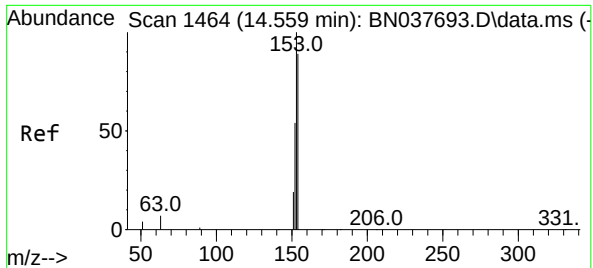
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.6	43.0
170	23.5	19.8	29.8



#16
Acenaphthylene
Concen: 0.365 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.011 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	12.9	10.4	15.6

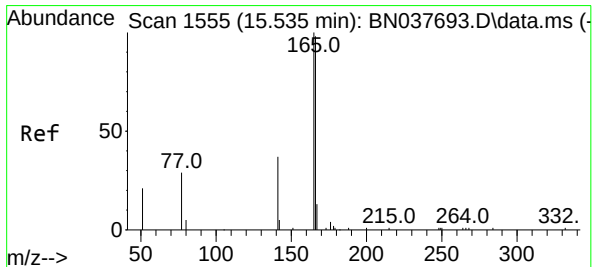
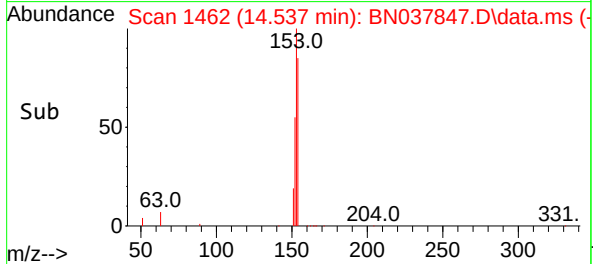
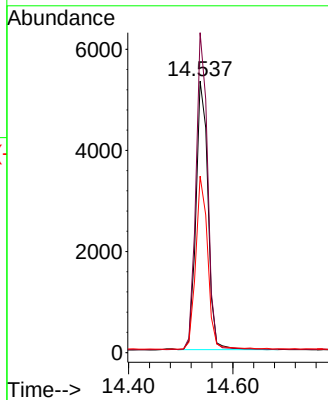
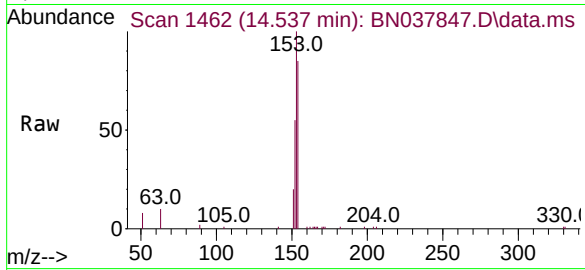




#17
Acenaphthene
Concen: 0.377 ng
RT: 14.537 min Scan# 1462
Delta R.T. -0.022 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

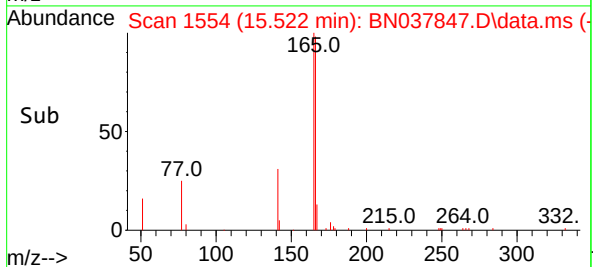
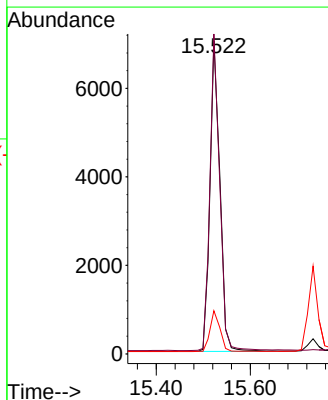
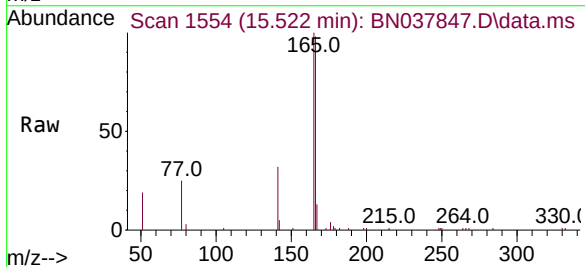
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

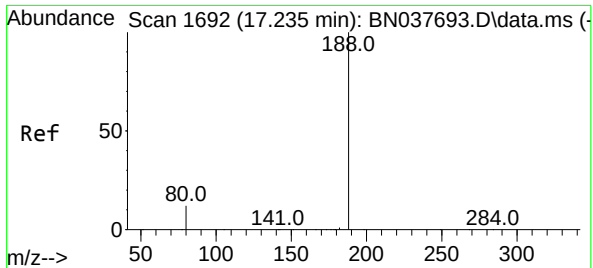
Tgt Ion:154 Resp: 8461
Ion Ratio Lower Upper
154 100
153 115.3 89.8 134.8
152 65.0 50.2 75.2



#18
Fluorene
Concen: 0.364 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.013 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:166 Resp: 9893
Ion Ratio Lower Upper
166 100
165 101.3 79.6 119.4
167 13.8 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1692

Delta R.T. -0.013 min

Lab File: BN037847.D

Acq: 20 Sep 2025 11:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

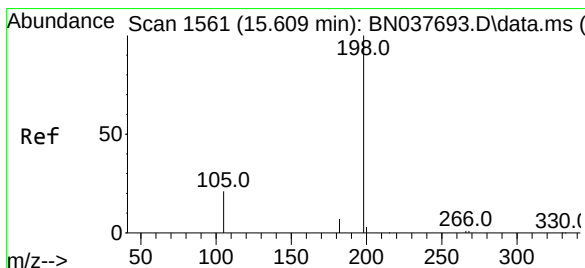
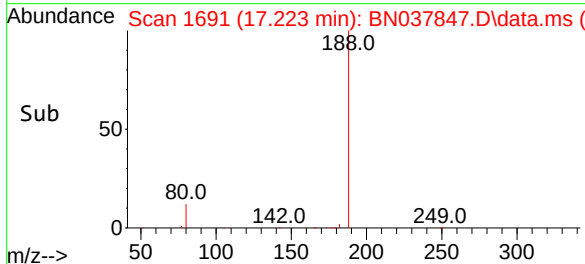
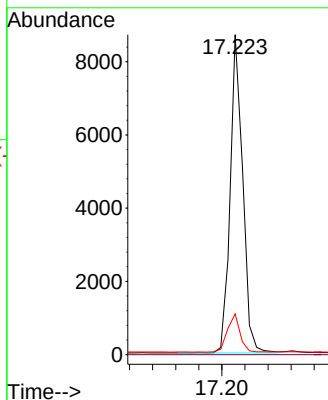
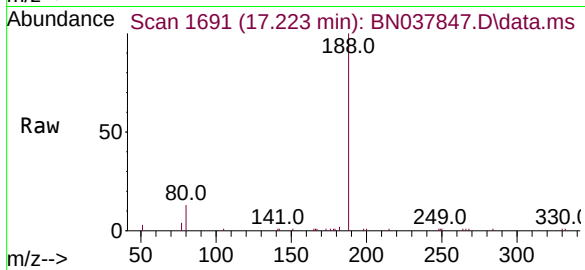
Tgt Ion:188 Resp: 13073

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.7 10.6 15.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.327 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.012 min

Lab File: BN037847.D

Acq: 20 Sep 2025 11:39

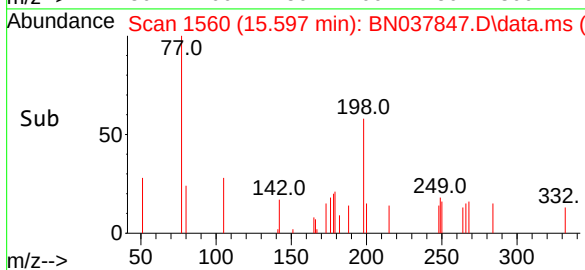
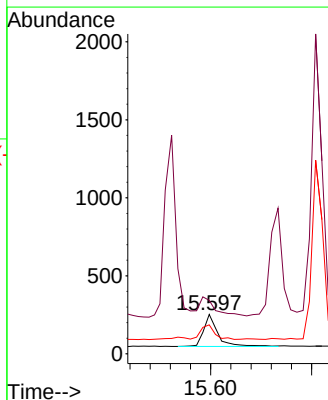
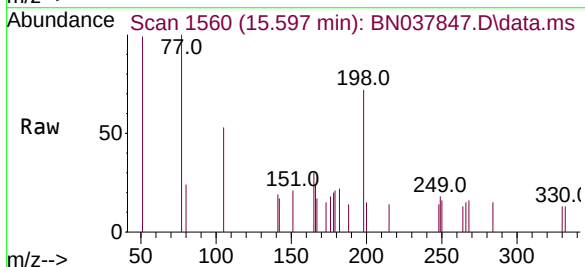
Tgt Ion:198 Resp: 396

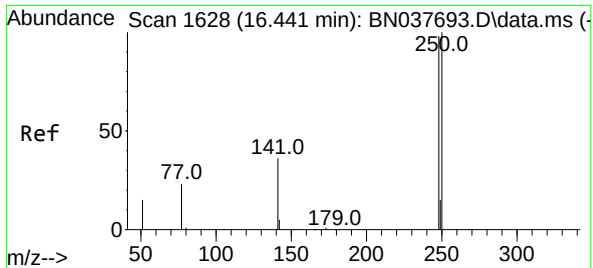
Ion Ratio Lower Upper

198 100

51 136.1 95.1 142.7

105 73.8 53.8 80.6

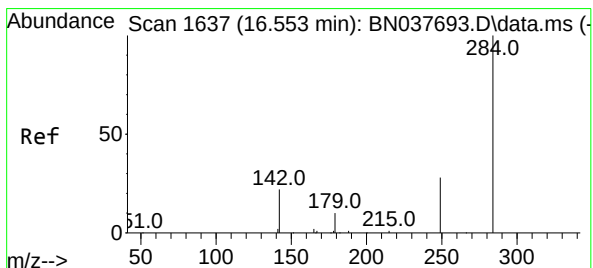
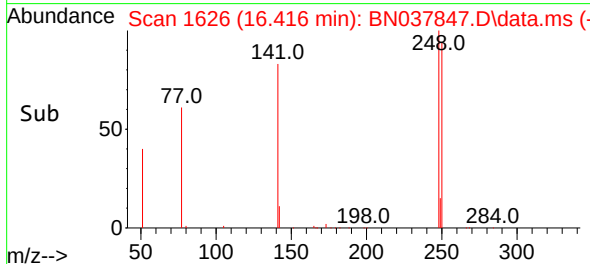
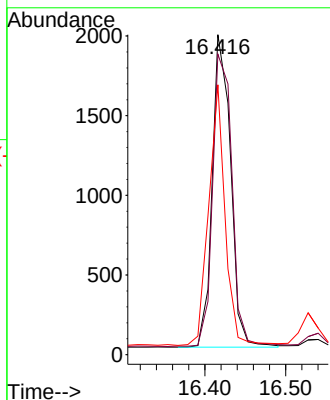
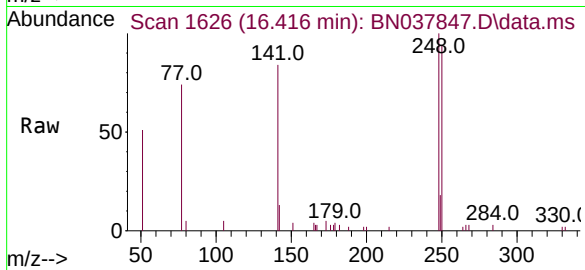




#21
4-Bromophenyl-phenylether
Concen: 0.363 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.025 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

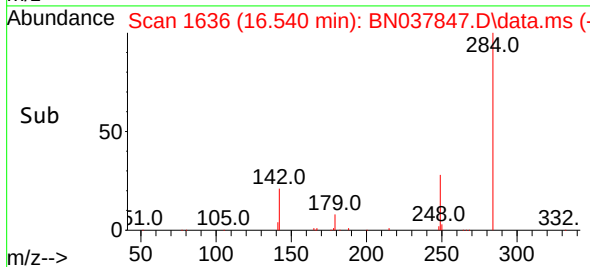
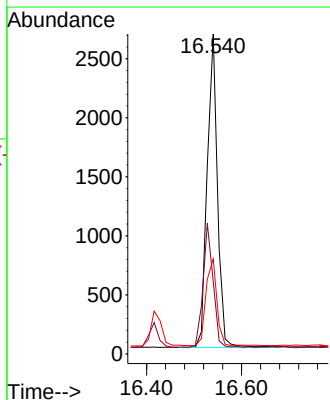
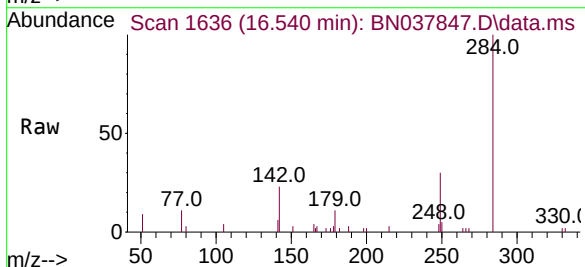
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

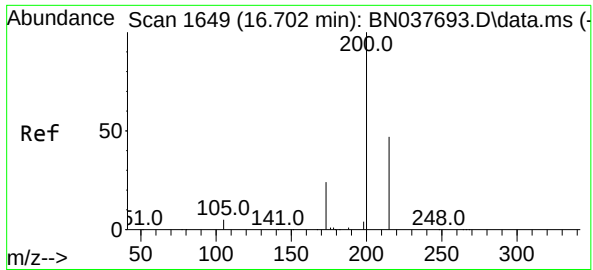
Tgt Ion:248 Resp: 3095
Ion Ratio Lower Upper
248 100
250 93.9 81.5 122.3
141 84.3 30.8 46.2#



#22
Hexachlorobenzene
Concen: 0.407 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:284 Resp: 3993
Ion Ratio Lower Upper
284 100
142 38.4 30.9 46.3
249 28.9 24.8 37.2

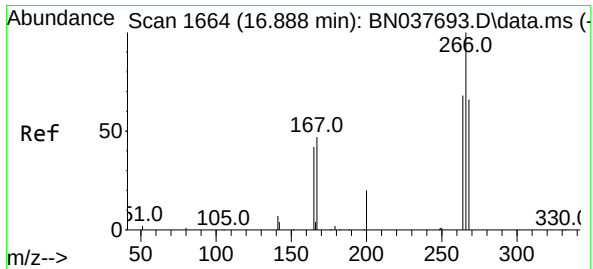
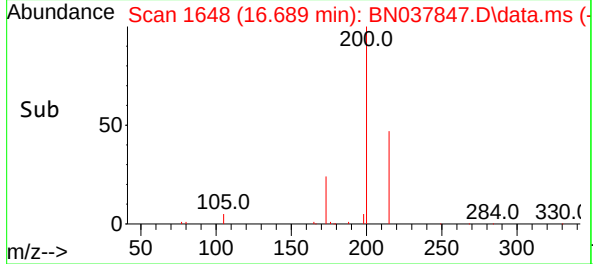
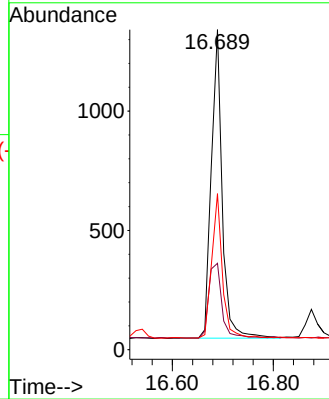
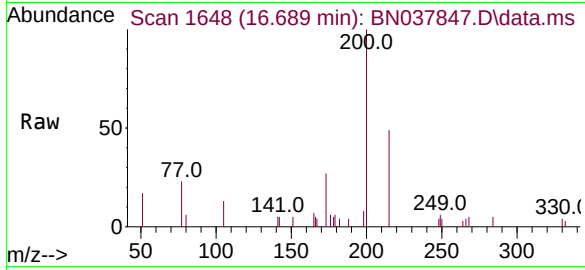




#23
Atrazine
Concen: 0.357 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.013 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

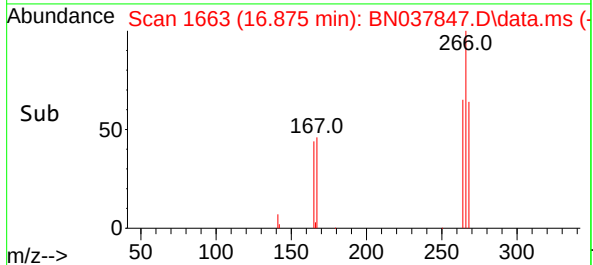
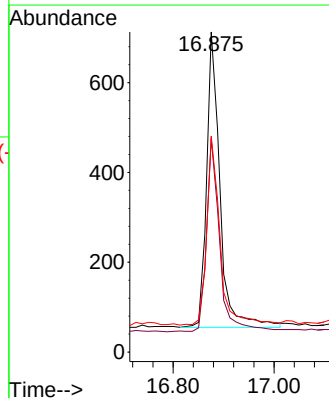
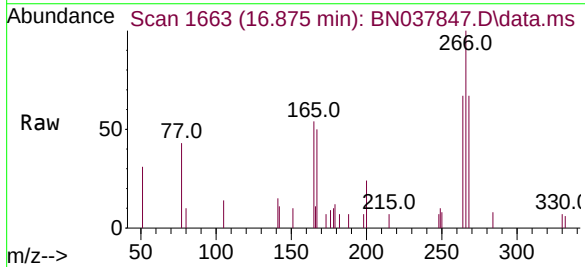
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

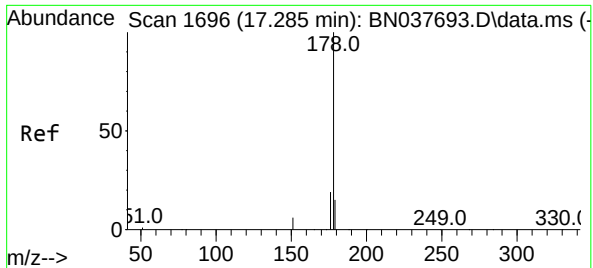
Tgt Ion	Ratio	Lower	Upper
200	100		
173	27.0	21.4	32.2
215	48.7	39.2	58.8



#24
Pentachlorophenol
Concen: 0.423 ng
RT: 16.875 min Scan# 1663
Delta R.T. -0.013 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion	Ratio	Lower	Upper
266	100		
264	65.0	51.6	77.4
268	63.9	53.2	79.8

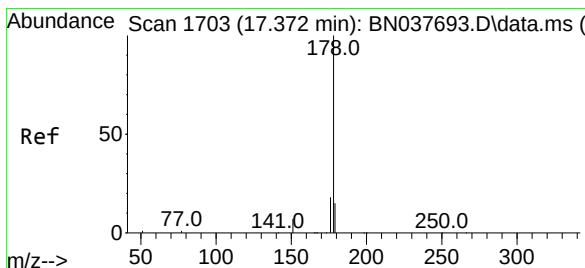
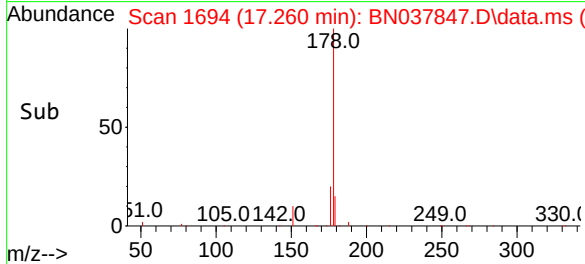
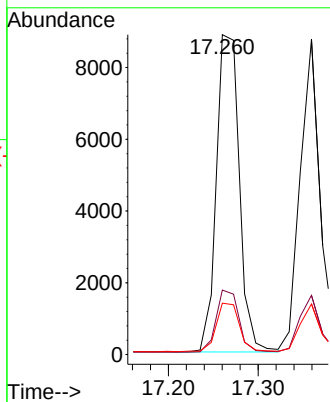
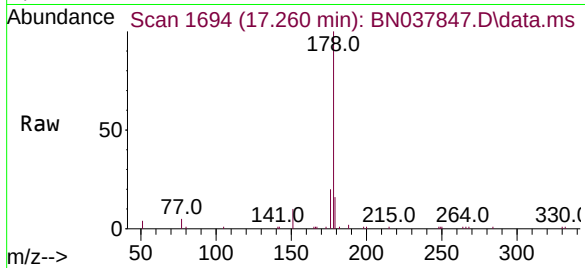




#25
Phenanthrene
Concen: 0.384 ng
RT: 17.260 min Scan# 1696
Delta R.T. -0.025 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

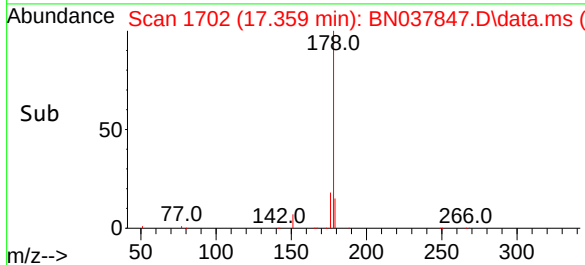
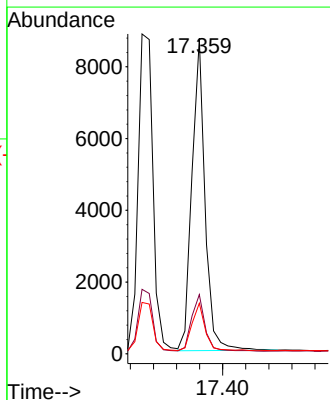
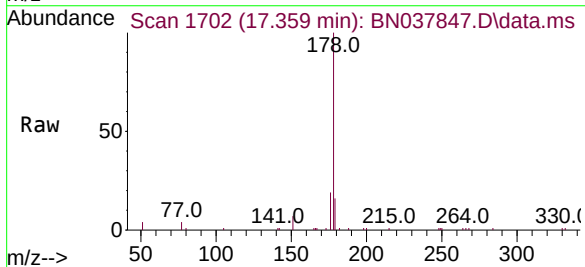
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

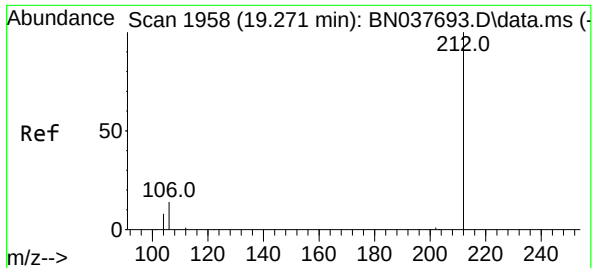
Tgt Ion:178 Resp: 15813
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.7 12.2 18.2



#26
Anthracene
Concen: 0.375 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:178 Resp: 13675
Ion Ratio Lower Upper
178 100
176 18.6 14.6 22.0
179 15.5 12.2 18.4





#27

Fluoranthene-d10

Concen: 0.365 ng

RT: 19.257 min Scan# 1958

Delta R.T. -0.014 min

Lab File: BN037847.D

Acq: 20 Sep 2025 11:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

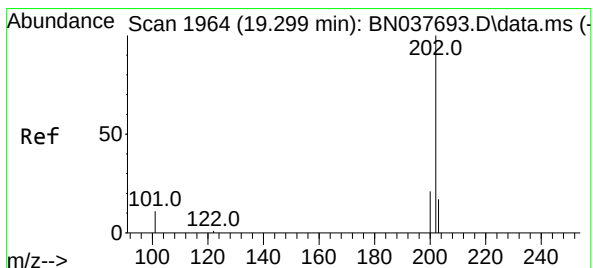
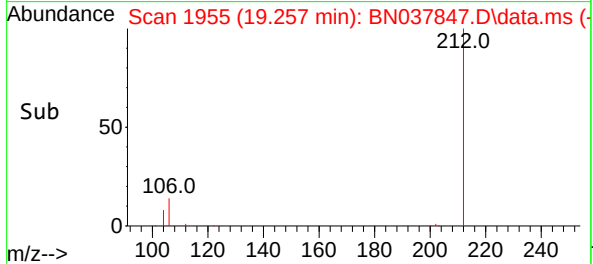
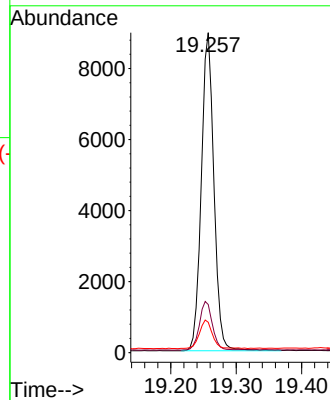
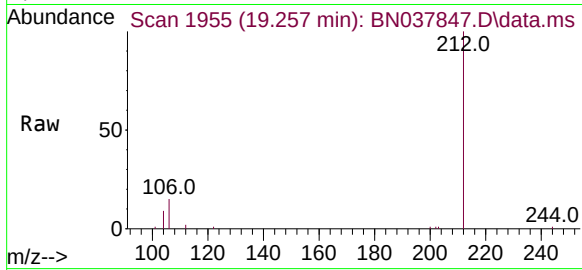
Tgt Ion:212 Resp: 11964

Ion Ratio Lower Upper

212 100

106 15.8 12.2 18.2

104 9.3 6.9 10.3



#28

Fluoranthene

Concen: 0.383 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.014 min

Lab File: BN037847.D

Acq: 20 Sep 2025 11:39

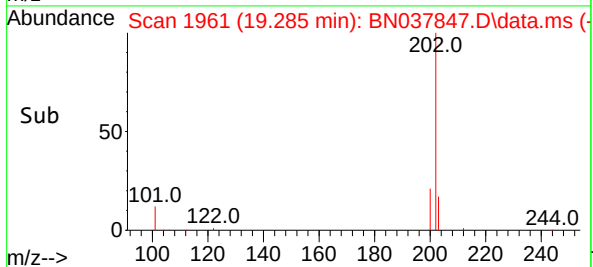
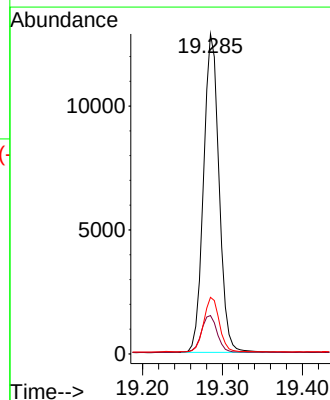
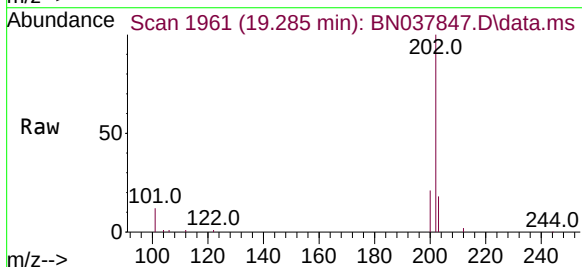
Tgt Ion:202 Resp: 17285

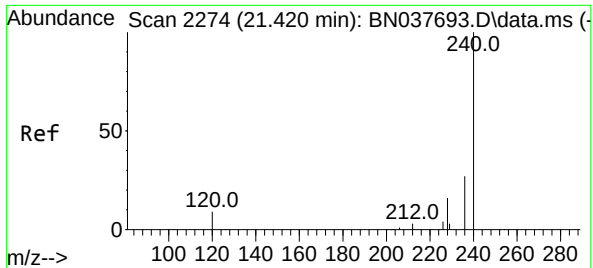
Ion Ratio Lower Upper

202 100

101 12.0 9.3 13.9

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN037847.D

Acq: 20 Sep 2025 11:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

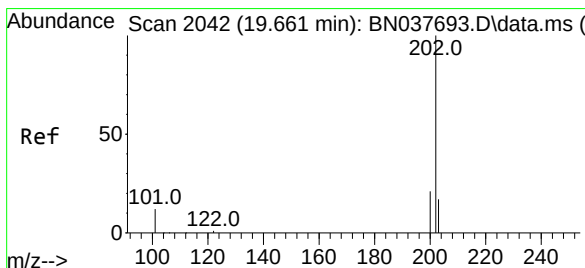
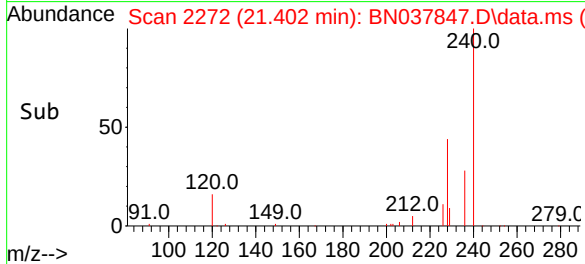
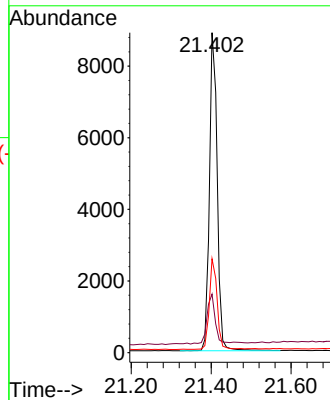
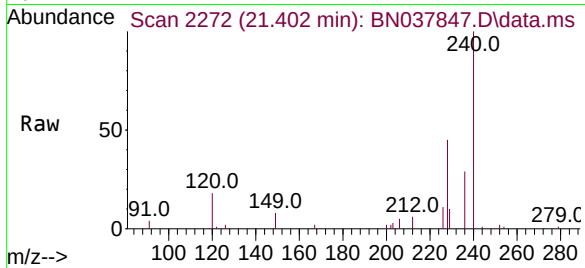
Tgt Ion:240 Resp: 12006

Ion Ratio Lower Upper

240 100

120 18.3 9.2 13.8#

236 29.3 22.6 33.8



#30

Pyrene

Concen: 0.367 ng

RT: 19.647 min Scan# 2039

Delta R.T. -0.014 min

Lab File: BN037847.D

Acq: 20 Sep 2025 11:39

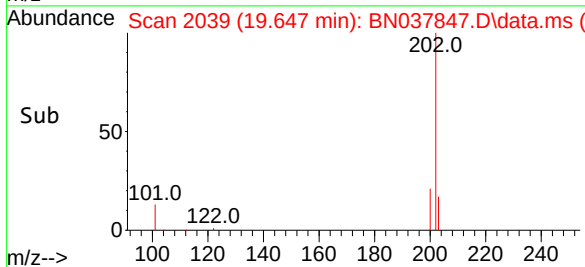
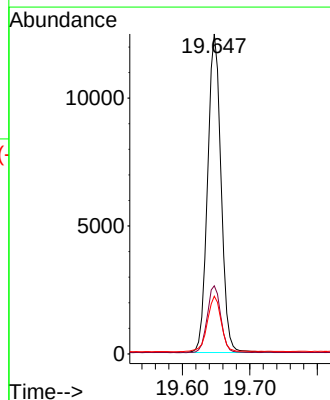
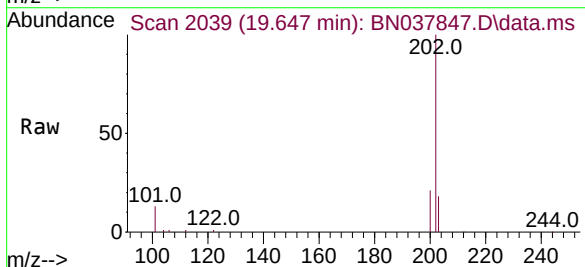
Tgt Ion:202 Resp: 17226

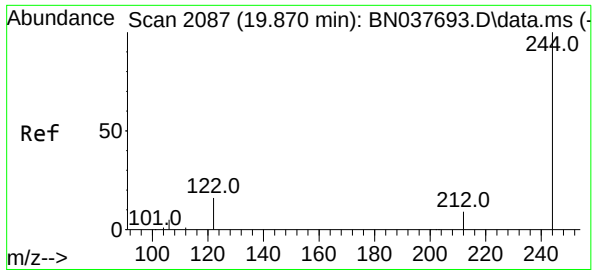
Ion Ratio Lower Upper

202 100

200 21.2 16.8 25.2

203 17.9 14.3 21.5

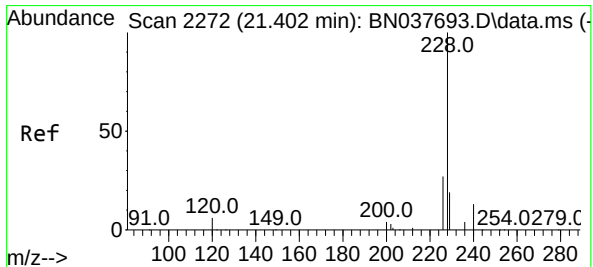
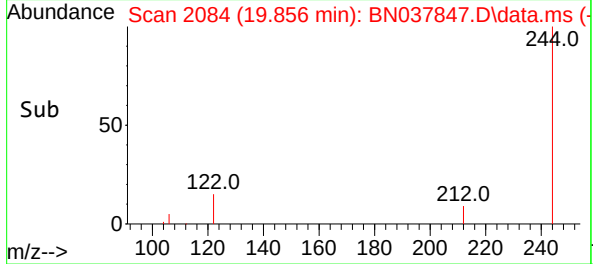
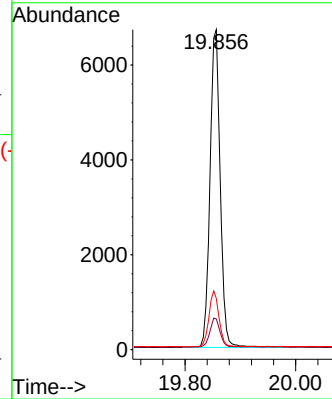
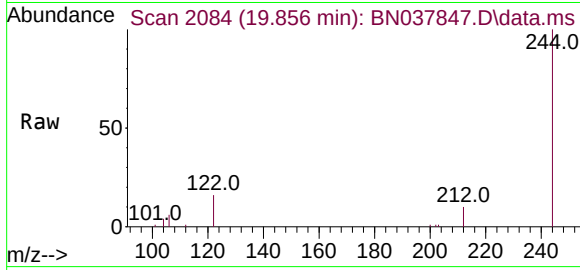




#31
Terphenyl-d14
Concen: 0.348 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

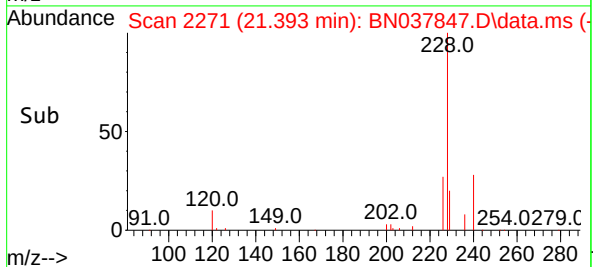
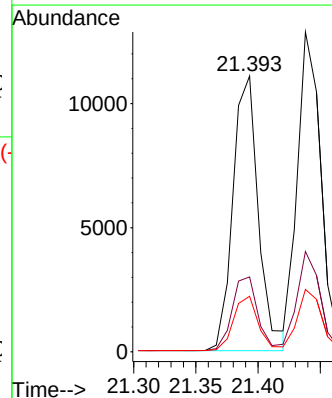
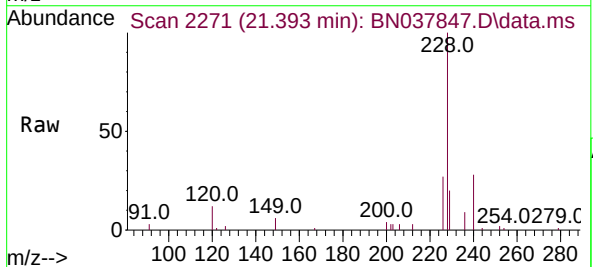
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

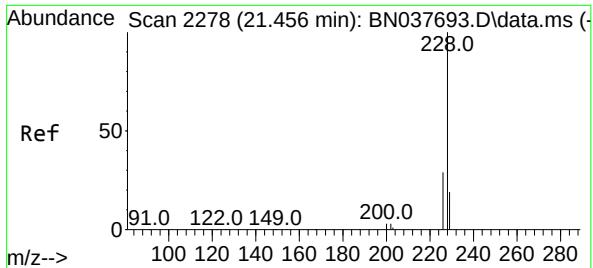
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.5	11.3
122	16.0	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.378 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.1	22.2	33.2
229	20.1	15.8	23.6

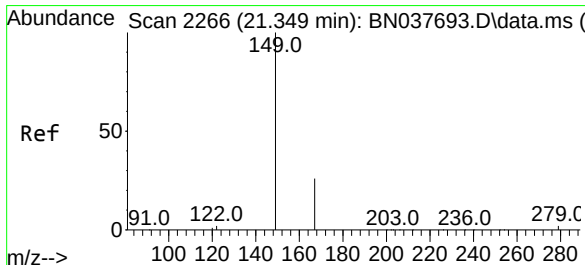
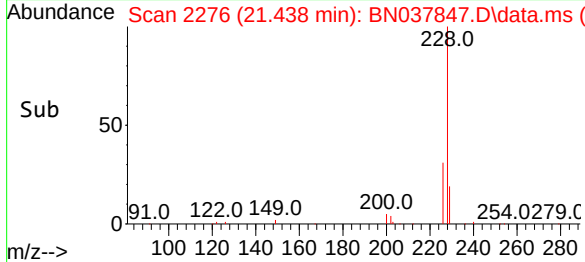
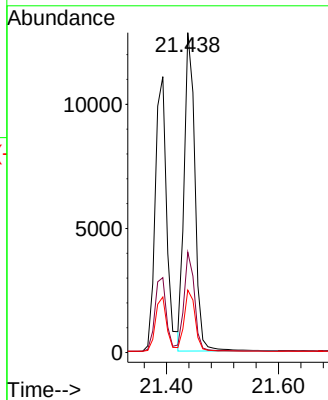
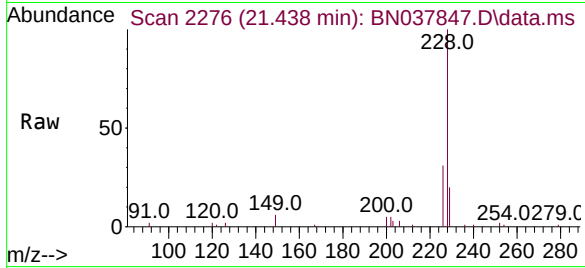




#33
Chrysene
Concen: 0.381 ng
RT: 21.438 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

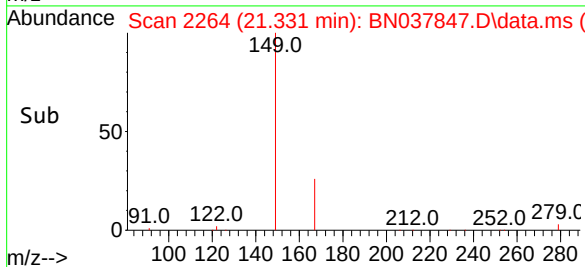
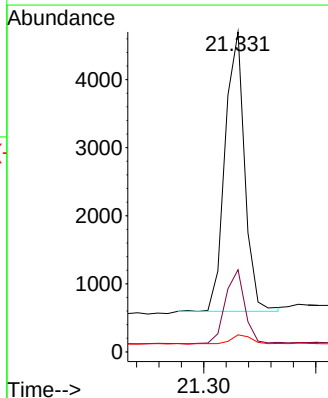
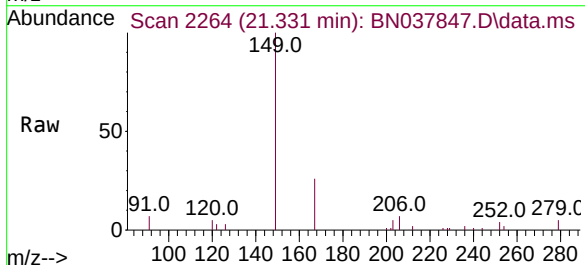
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

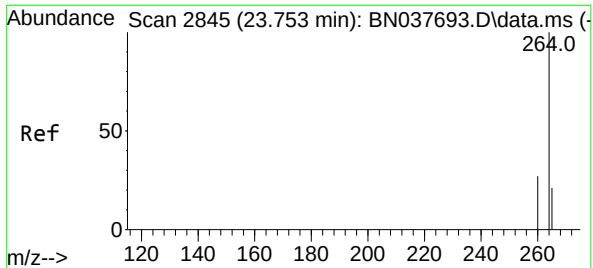
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	23.5	35.3
229	19.5	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.402 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

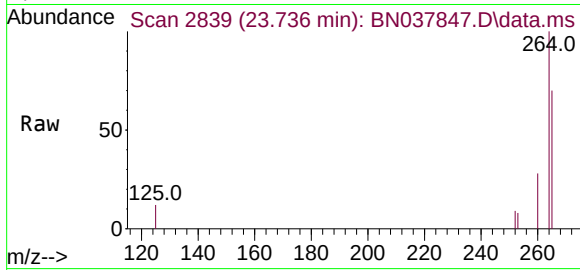
Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.8	20.8	31.2
279	3.7	3.3	4.9



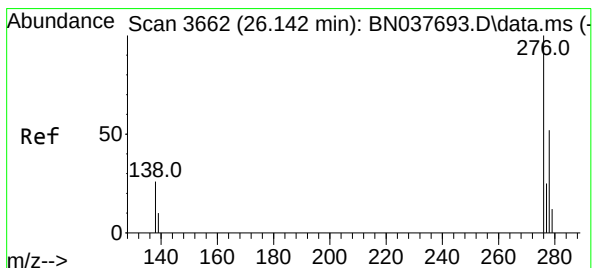
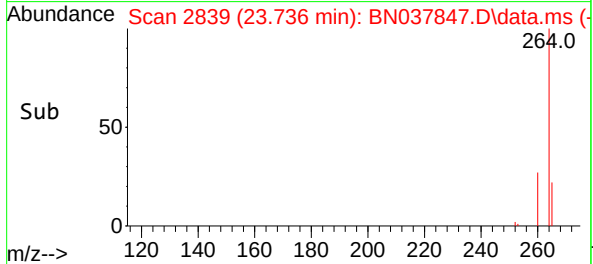
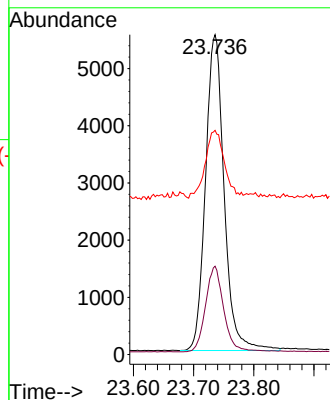


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 2839
Delta R.T. -0.018 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

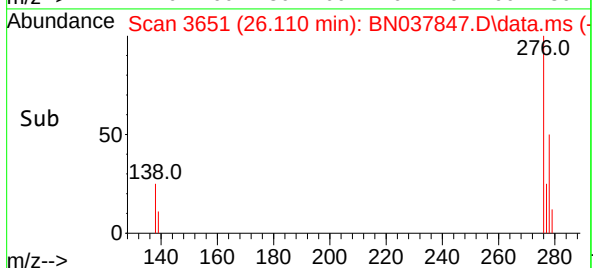
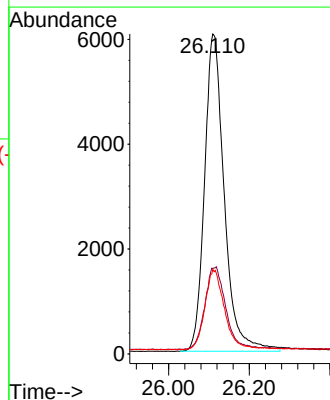
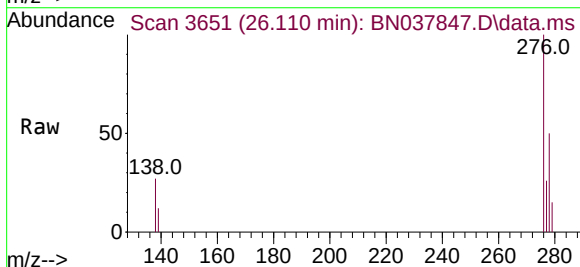


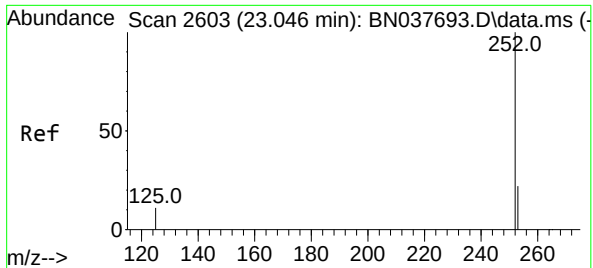
Tgt Ion:264 Resp: 11862
Ion Ratio Lower Upper
264 100
260 27.6 21.8 32.8
265 70.1 39.4 59.2#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.413 ng
RT: 26.110 min Scan# 3651
Delta R.T. -0.032 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:276 Resp: 20571
Ion Ratio Lower Upper
276 100
138 27.2 21.9 32.9
277 25.0 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.397 ng

RT: 23.028 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN037847.D

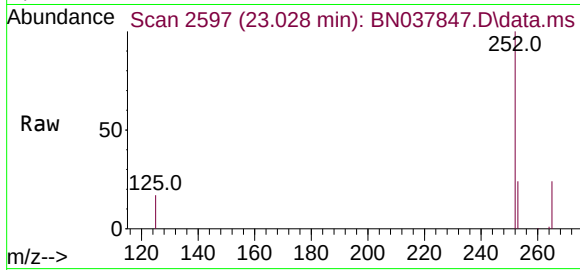
Acq: 20 Sep 2025 11:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



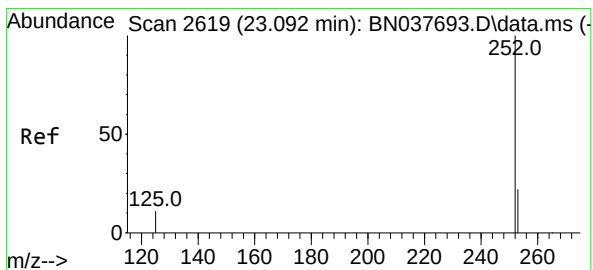
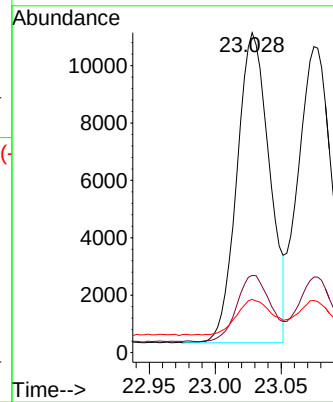
Tgt Ion:252 Resp: 18556

Ion Ratio Lower Upper

252 100

253 24.1 19.4 29.2

125 16.6 11.2 16.8



#38

Benzo(k)fluoranthene

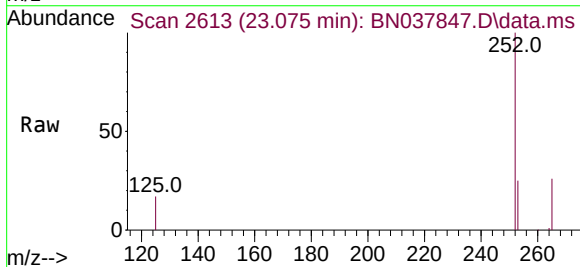
Concen: 0.401 ng

RT: 23.075 min Scan# 2613

Delta R.T. -0.018 min

Lab File: BN037847.D

Acq: 20 Sep 2025 11:39



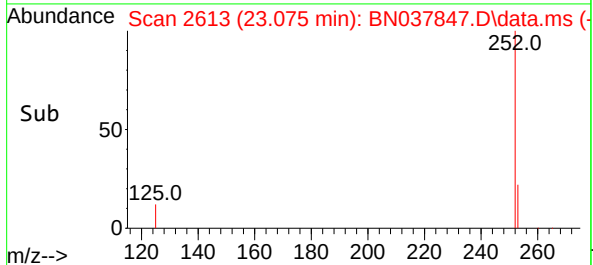
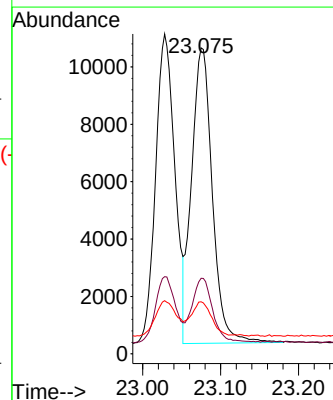
Tgt Ion:252 Resp: 19102

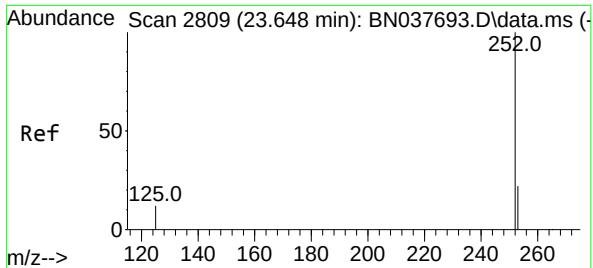
Ion Ratio Lower Upper

252 100

253 24.7 19.4 29.0

125 17.0 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.384 ng

RT: 23.630 min Scan# 2803

Delta R.T. -0.018 min

Lab File: BN037847.D

Acq: 20 Sep 2025 11:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

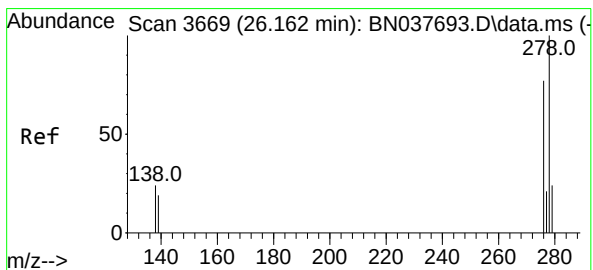
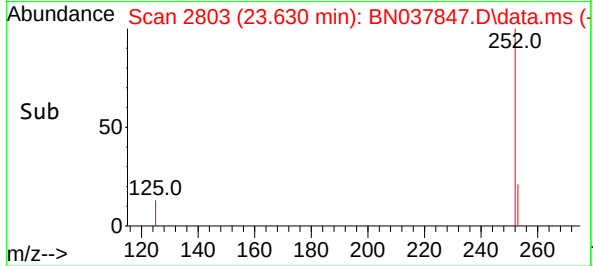
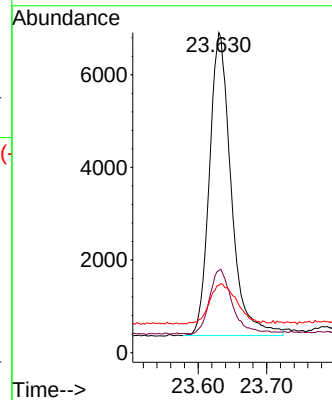
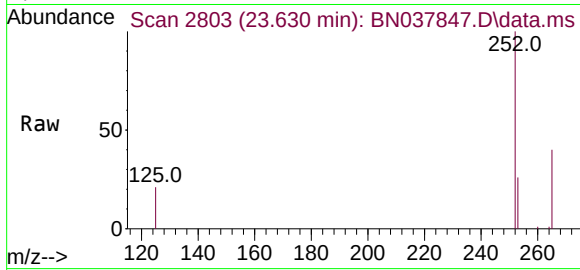
Tgt Ion:252 Resp: 14379

Ion Ratio Lower Upper

252 100

253 25.7 20.8 31.2

125 21.0 13.9 20.9#



#40

Dibenzo(a,h)anthracene

Concen: 0.392 ng

RT: 26.127 min Scan# 3657

Delta R.T. -0.035 min

Lab File: BN037847.D

Acq: 20 Sep 2025 11:39

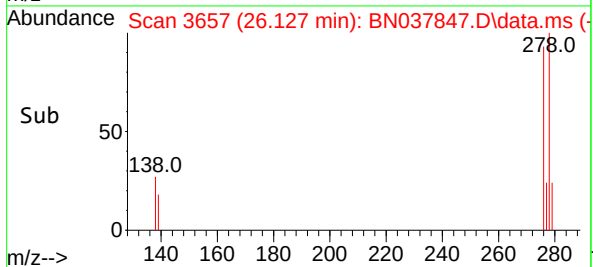
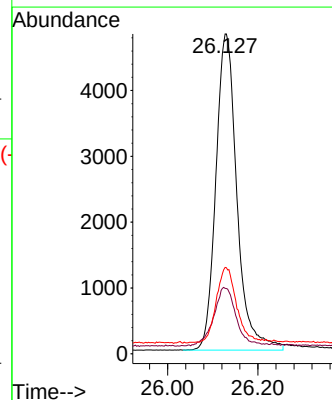
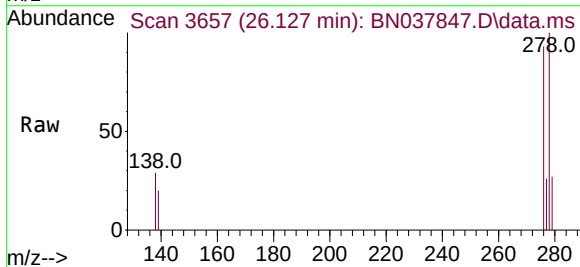
Tgt Ion:278 Resp: 15603

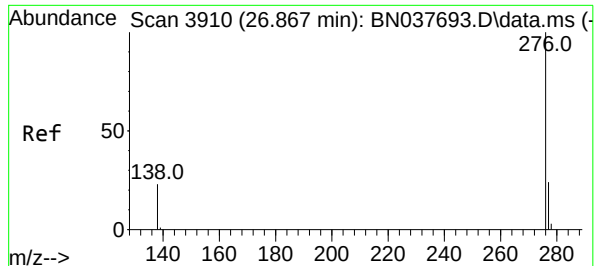
Ion Ratio Lower Upper

278 100

139 20.5 17.8 26.6

279 27.0 22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 0.390 ng

RT: 26.835 min Scan# 38

Delta R.T. -0.032 min

Lab File: BN037847.D

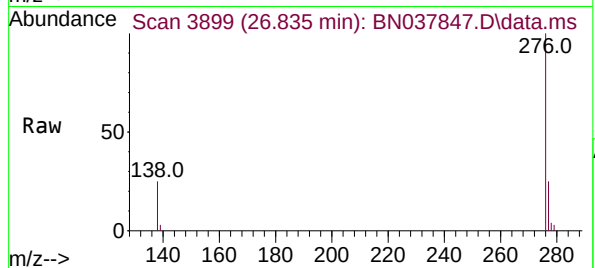
Acq: 20 Sep 2025 11:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



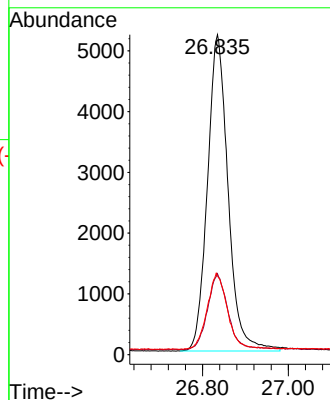
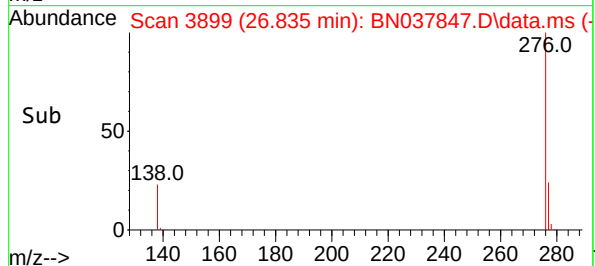
Tgt Ion:276 Resp: 17395

Ion Ratio Lower Upper

276 100

277 25.3 20.6 31.0

138 24.6 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
 Data File : BN037847.D
 Acq On : 20 Sep 2025 11:39
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 22 00:38:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	123	-0.01
2	1,4-Dioxane	0.417	0.423	-1.4	123	0.00
3	n-Nitrosodimethylamine	0.544	0.519	4.6	113	0.00
4 S	2-Fluorophenol	0.918	0.876	4.6	121	0.00
5 S	Phenol-d6	1.191	1.109	6.9	118	0.00
6	bis(2-Chloroethyl)ether	1.064	1.029	3.3	118	-0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	122	-0.02
8 S	Nitrobenzene-d5	0.293	0.288	1.7	124	-0.02
9	Naphthalene	1.093	1.051	3.8	120	-0.01
10	Hexachlorobutadiene	0.198	0.188	5.1	116	-0.02
11 SURR	2-Methylnaphthalene-d10	0.530	0.470	11.3	115	-0.02
12	2-Methylnaphthalene	0.676	0.625	7.5	116	-0.02
13 I	Acenaphthene-d10	1.000	1.000	0.0	117	-0.02
14 S	2,4,6-Tribromophenol	0.104	0.123	-18.3	143	-0.01
15 S	2-Fluorobiphenyl	1.673	1.607	3.9	114	-0.01
16	Acenaphthylene	1.834	1.674	8.7	110	-0.01
17	Acenaphthene	1.240	1.169	5.7	112	-0.02
18	Fluorene	1.502	1.367	9.0	111	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	116	-0.01
20	4,6-Dinitro-2-methylphenol	0.037	0.030	18.9	106	-0.01
21	4-Bromophenyl-phenylether	0.261	0.237	9.2	109	-0.02
22	Hexachlorobenzene	0.300	0.305	-1.7	121	-0.01
23	Atrazine	0.166	0.148	10.8	113	-0.01
24	Pentachlorophenol	0.087	0.092	-5.7	144	-0.01
25	Phenanthrene	1.259	1.210	3.9	115	-0.02
26	Anthracene	1.116	1.046	6.3	113	-0.01
27 SURR	Fluoranthene-d10	1.004	0.915	8.9	114	-0.01
28	Fluoranthene	1.381	1.322	4.3	117	-0.01
29 I	Chrysene-d12	1.000	1.000	0.0	128	-0.02
30	Pyrene	1.566	1.435	8.4	118	-0.01
31 S	Terphenyl-d14	0.812	0.706	13.1	113	-0.01
32	Benzo(a)anthracene	1.395	1.317	5.6	125	0.00
33	Chrysene	1.496	1.425	4.7	122	-0.02
34	Bis(2-ethylhexyl)phthalate	0.414	0.416	-0.5	142	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	132	-0.02
36	Indeno(1,2,3-cd)pyrene	1.681	1.734	-3.2	149	-0.03
37	Benzo(b)fluoranthene	1.575	1.564	0.7	133	-0.02
38	Benzo(k)fluoranthene	1.606	1.610	-0.2	140	-0.02
39 C	Benzo(a)pyrene	1.261	1.212	3.9	134	-0.02
40	Dibenzo(a,h)anthracene	1.342	1.315	2.0	144	-0.04
41	Benzo(g,h,i)perylene	1.506	1.466	2.7	134	-0.03

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
 Data File : BN037847.D
 Acq On : 20 Sep 2025 11:39
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 22 00:38:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	123	-0.01
2	1,4-Dioxane	0.400	0.406	-1.5	123	0.00
3	n-Nitrosodimethylamine	0.400	0.381	4.8	113	0.00
4 S	2-Fluorophenol	0.400	0.381	4.8	121	0.00
5 S	Phenol-d6	0.400	0.373	6.8	118	0.00
6	bis(2-Chloroethyl)ether	0.400	0.387	3.3	118	-0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	122	-0.02
8 S	Nitrobenzene-d5	0.400	0.394	1.5	124	-0.02
9	Naphthalene	0.400	0.384	4.0	120	-0.01
10	Hexachlorobutadiene	0.400	0.380	5.0	116	-0.02
11 SURR	2-Methylnaphthalene-d10	0.400	0.355	11.3	115	-0.02
12	2-Methylnaphthalene	0.400	0.369	7.8	116	-0.02
13 I	Acenaphthene-d10	0.400	0.400	0.0	117	-0.02
14 S	2,4,6-Tribromophenol	0.400	0.472	-18.0	143	-0.01
15 S	2-Fluorobiphenyl	0.400	0.384	4.0	114	-0.01
16	Acenaphthylene	0.400	0.365	8.8	110	-0.01
17	Acenaphthene	0.400	0.377	5.8	112	-0.02
18	Fluorene	0.400	0.364	9.0	111	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	116	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.327	18.3	106	-0.01
21	4-Bromophenyl-phenylether	0.400	0.363	9.3	109	-0.02
22	Hexachlorobenzene	0.400	0.407	-1.7	121	-0.01
23	Atrazine	0.400	0.357	10.8	113	-0.01
24	Pentachlorophenol	0.400	0.423	-5.7	144	-0.01
25	Phenanthrene	0.400	0.384	4.0	115	-0.02
26	Anthracene	0.400	0.375	6.3	113	-0.01
27 SURR	Fluoranthene-d10	0.400	0.365	8.8	114	-0.01
28	Fluoranthene	0.400	0.383	4.3	117	-0.01
29 I	Chrysene-d12	0.400	0.400	0.0	128	-0.02
30	Pyrene	0.400	0.367	8.3	118	-0.01
31 S	Terphenyl-d14	0.400	0.348	13.0	113	-0.01
32	Benzo(a)anthracene	0.400	0.378	5.5	125	0.00
33	Chrysene	0.400	0.381	4.8	122	-0.02
34	Bis(2-ethylhexyl)phthalate	0.400	0.402	-0.5	142	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	132	-0.02
36	Indeno(1,2,3-cd)pyrene	0.400	0.413	-3.2	149	-0.03
37	Benzo(b)fluoranthene	0.400	0.397	0.8	133	-0.02
38	Benzo(k)fluoranthene	0.400	0.401	-0.3	140	-0.02
39 C	Benzo(a)pyrene	0.400	0.384	4.0	134	-0.02
40	Dibenzo(a,h)anthracene	0.400	0.392	2.0	144	-0.04
41	Benzo(g,h,i)perylene	0.400	0.390	2.5	134	-0.03

(#) = Out of Range

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



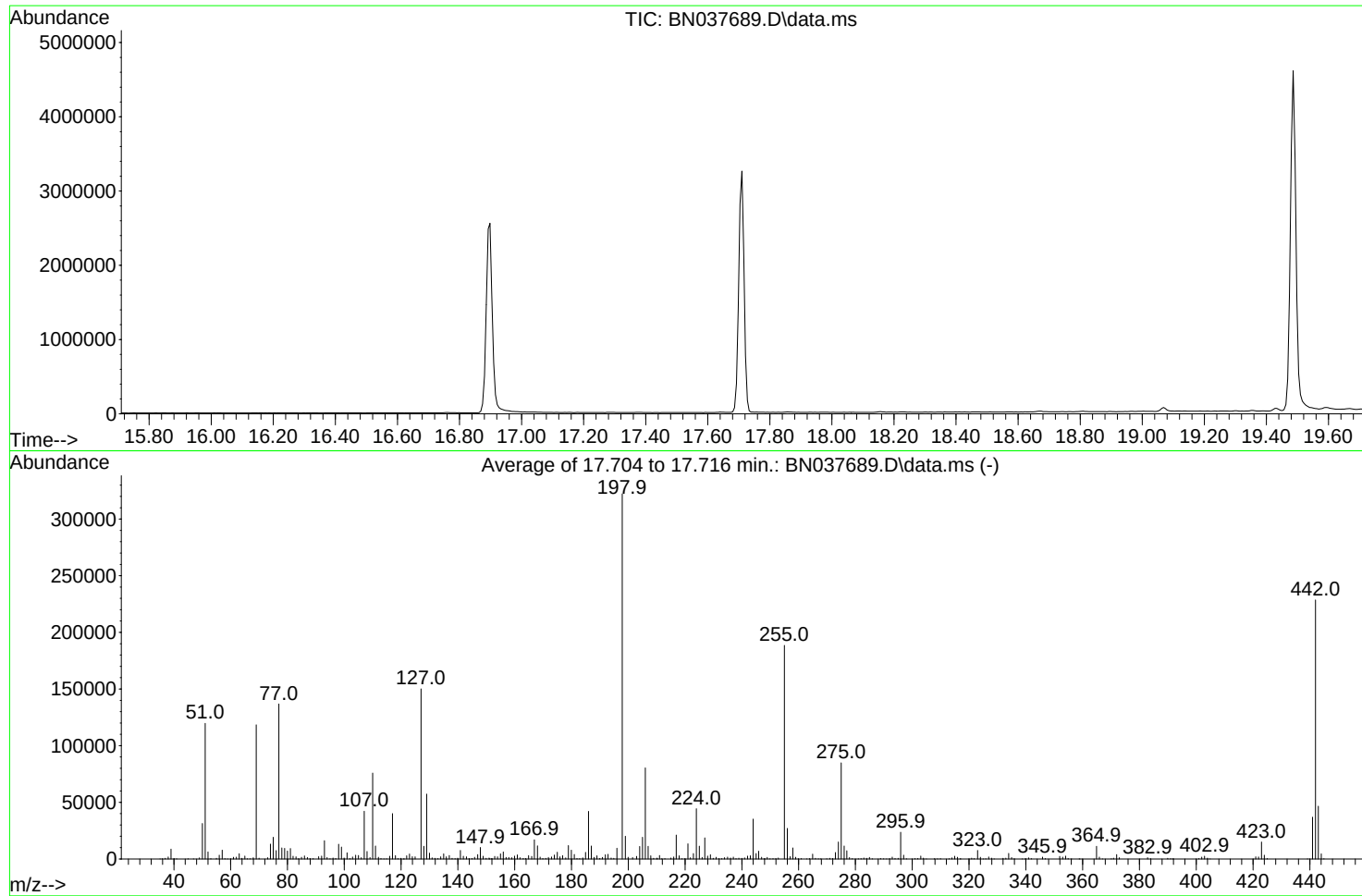
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037689.D
Acq On : 11 Sep 2025 07:54
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025



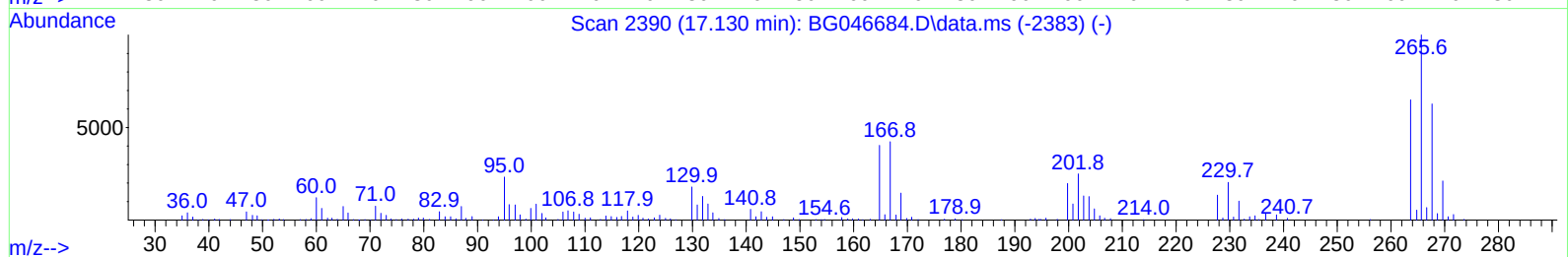
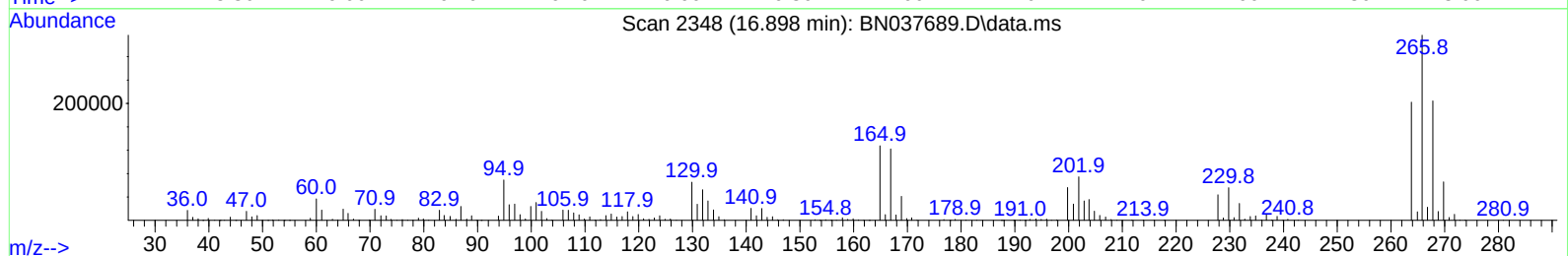
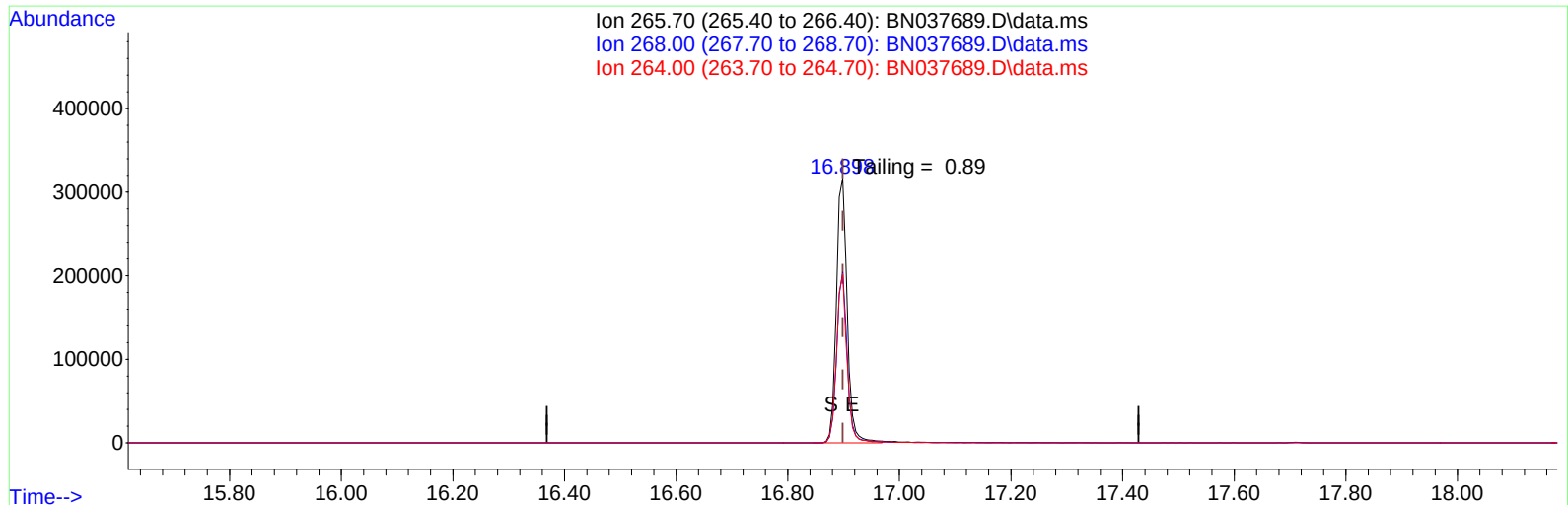
AutoFind: Scans 2485, 2486, 2487; Background Corrected with Scan 2478

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.0	1148	PASS
69	69	100	100	100.0	118397	PASS
70	69	0.00	2	0.6	697	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	322261	PASS
199	198	5	9	6.2	20092	PASS
365	198	1	100	3.5	11183	PASS
441	443	0.01	150	79.2	36909	PASS
442	442	100	100	100.0	228651	PASS
443	442	15	24	20.4	46619	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037689.D
Acq On : 11 Sep 2025 07:54
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 11 13:15:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 13:14:53 2025
Response via : Initial Calibration



TIC: BN037689.D\data.ms

(70) Pentachlorophenol (C)

16.898min (0.000) 277.63 ng

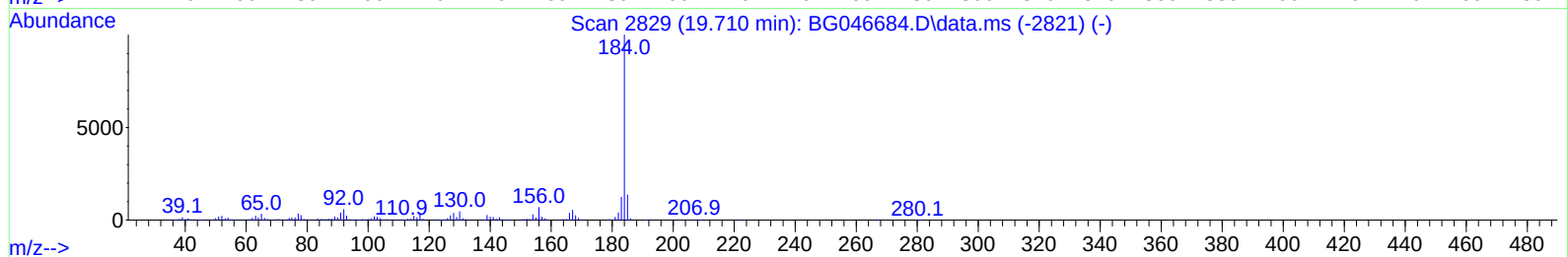
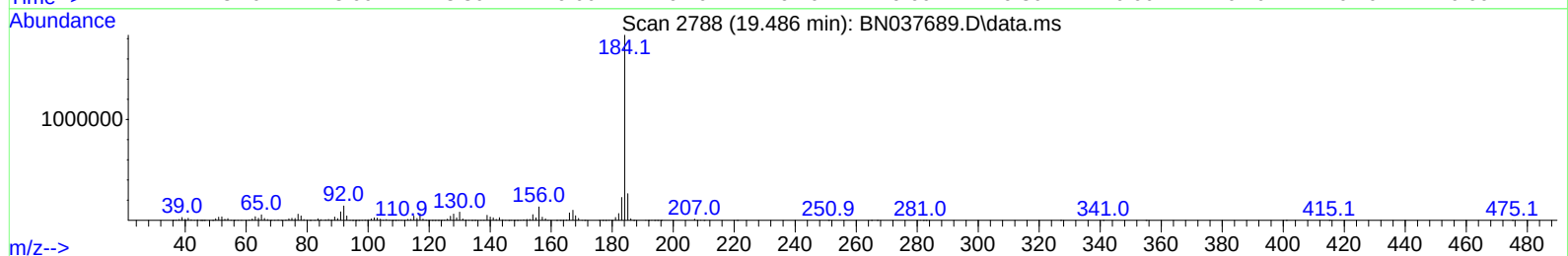
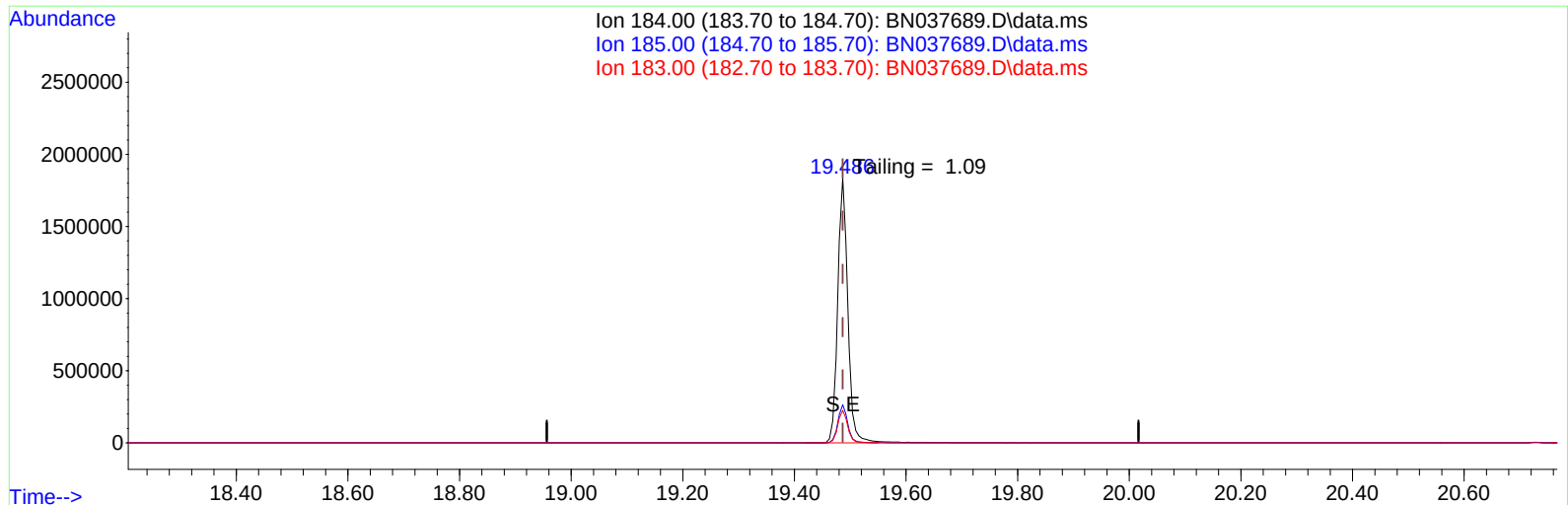
response 430126

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	64.50	64.54
264.00	63.90	63.87
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037689.D
Acq On : 11 Sep 2025 07:54
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 11 13:15:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 13:14:53 2025
Response via : Initial Calibration



TIC: BN037689.D\data.ms

(77) Benzidine

19.486min (0.000) 64237.37 ng

response 2281946

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.40	14.43
183.00	12.30	12.32
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

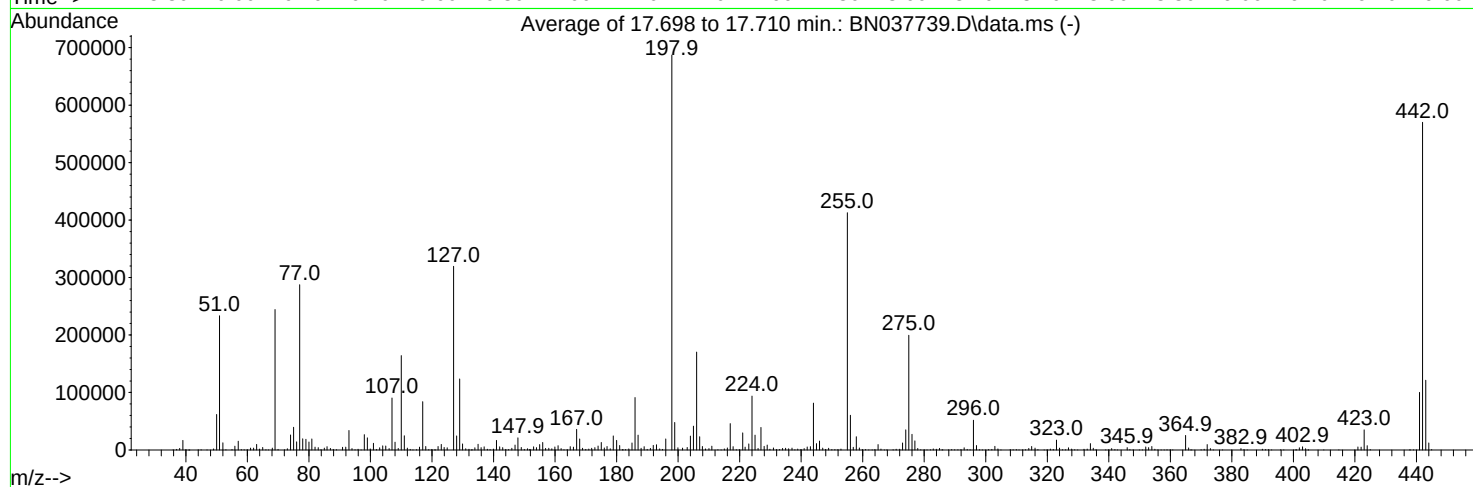
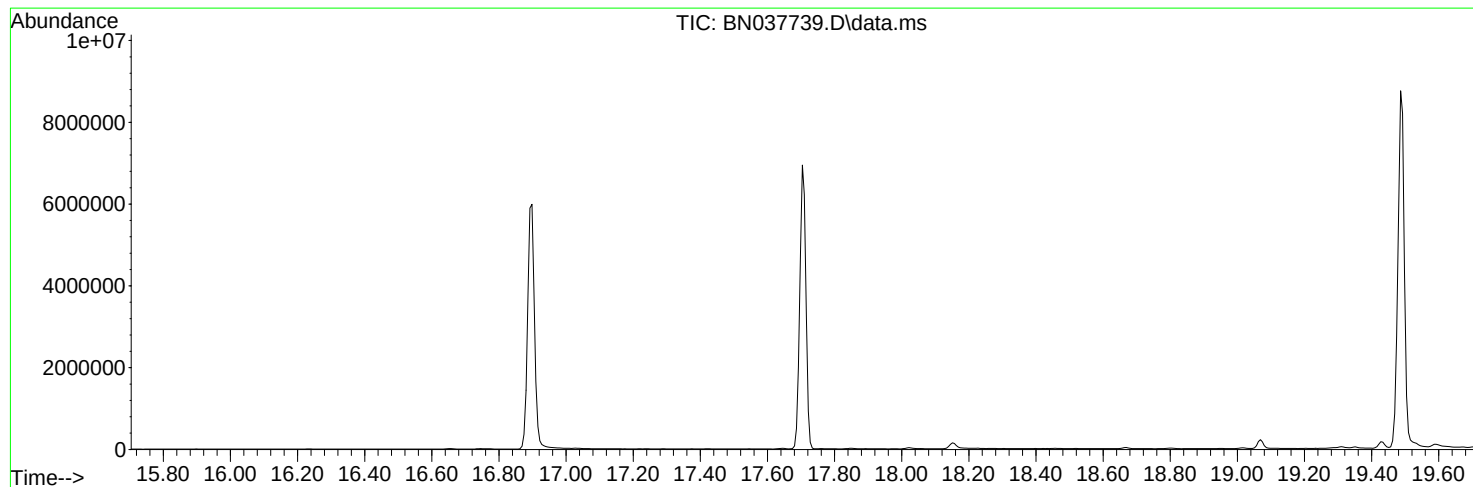
Date	Instrument Name	DFTPP Data File
9/11/2025	BNA_N	<u>BN037689.D</u>
Compound Name	Response	Retention Time
DDT	1069016	20.727
DDD	7982	20.286
DDE	769	19.78
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
8751	1077767	0.81

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037739.D
Acq On : 17 Sep 2025 10:46
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025



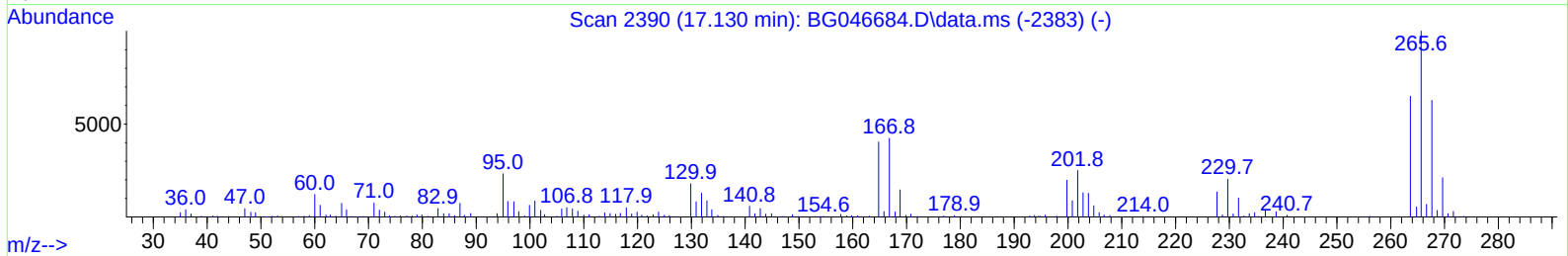
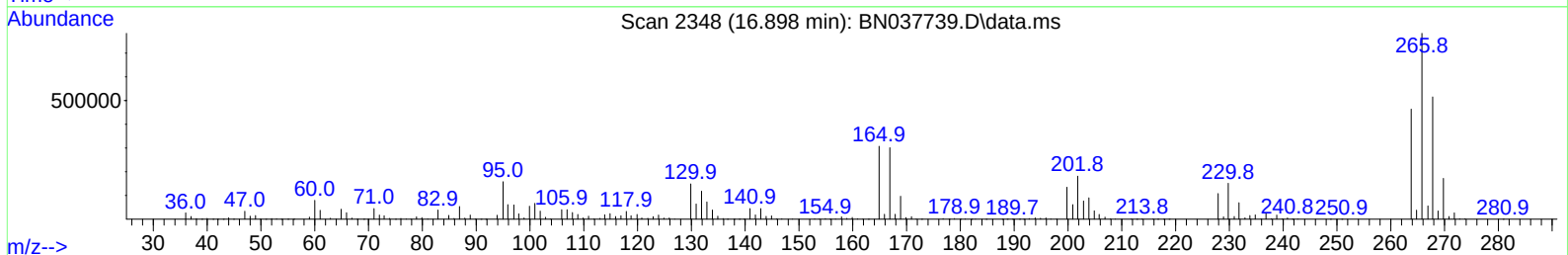
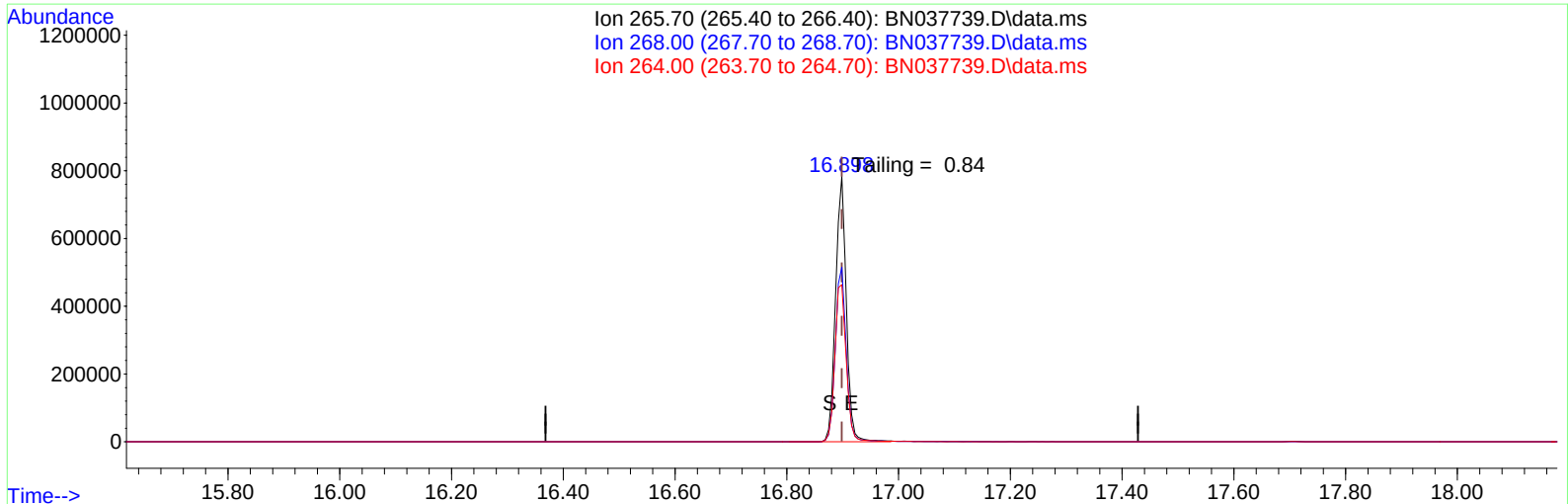
AutoFind: Scans 2484, 2485, 2486; Background Corrected with Scan 2477

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.3	3107	PASS
69	69	100	100	100.0	244250	PASS
70	69	0.00	2	0.4	1067	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	687061	PASS
199	198	5	9	6.9	47709	PASS
365	198	1	100	3.7	25139	PASS
441	443	0.01	150	82.6	100245	PASS
442	442	100	100	100.0	570155	PASS
443	442	15	24	21.3	121381	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037739.D
Acq On : 17 Sep 2025 10:46
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 17 12:56:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 17 12:55:52 2025
Response via : Initial Calibration



TIC: BN037739.D\data.ms

(70) Pentachlorophenol (C)

16.898min (0.000) 620.62 ng

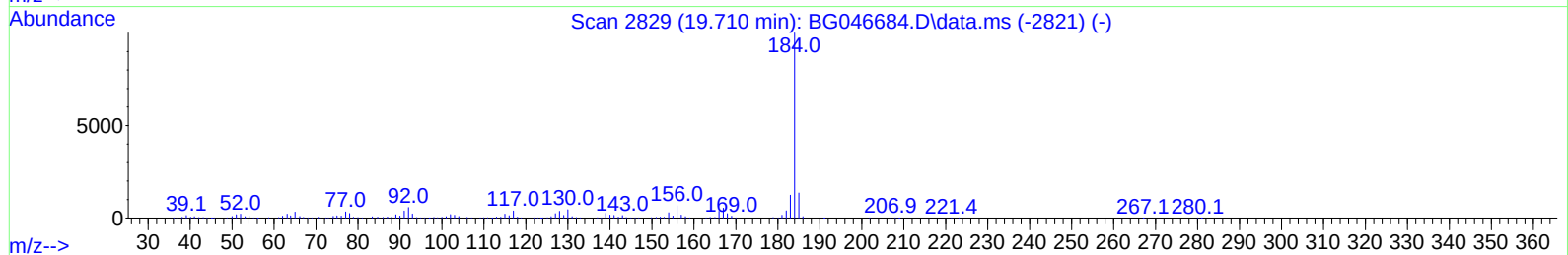
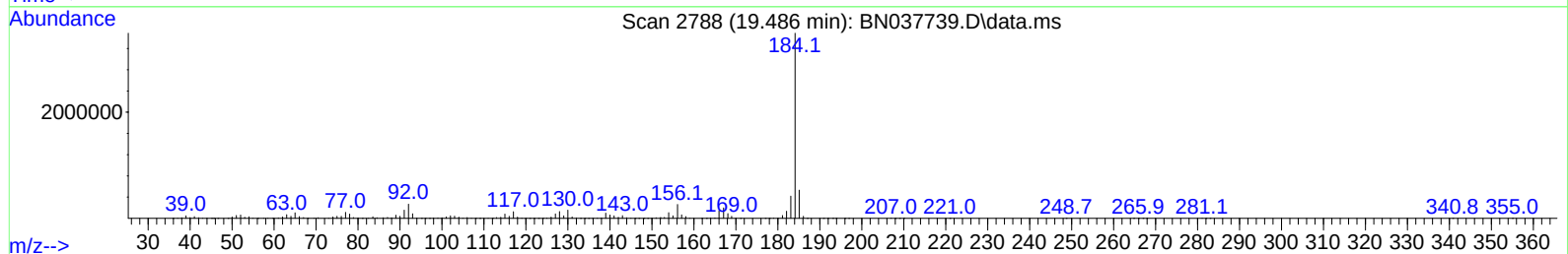
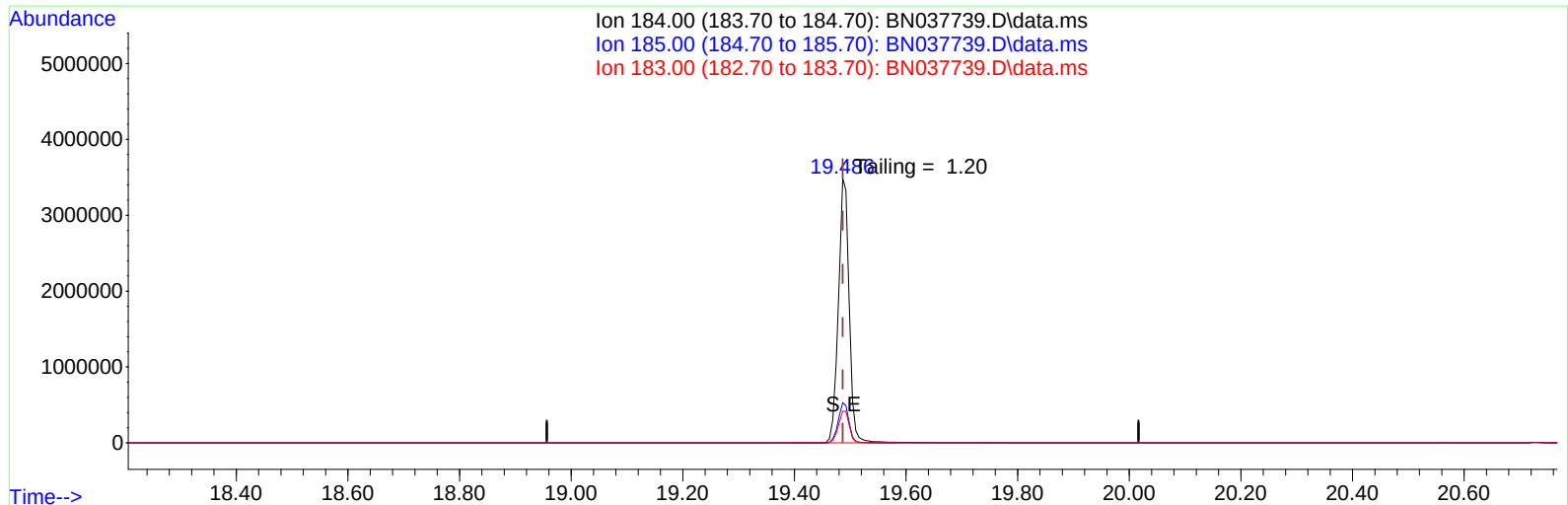
response 1035710

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	65.84
264.00	61.60	59.28
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037739.D
Acq On : 17 Sep 2025 10:46
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 17 12:56:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 17 12:55:52 2025
Response via : Initial Calibration



TIC: BN037739.D\data.ms

(77) Benzidine

19.486min (0.000) 3519.75 ng

response 4617215

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	15.21
183.00	13.20	12.01
0.00	0.00	0.00

Instrument :

BNA_N

ClientSampleId :

DFTPP

DDT Breakdown

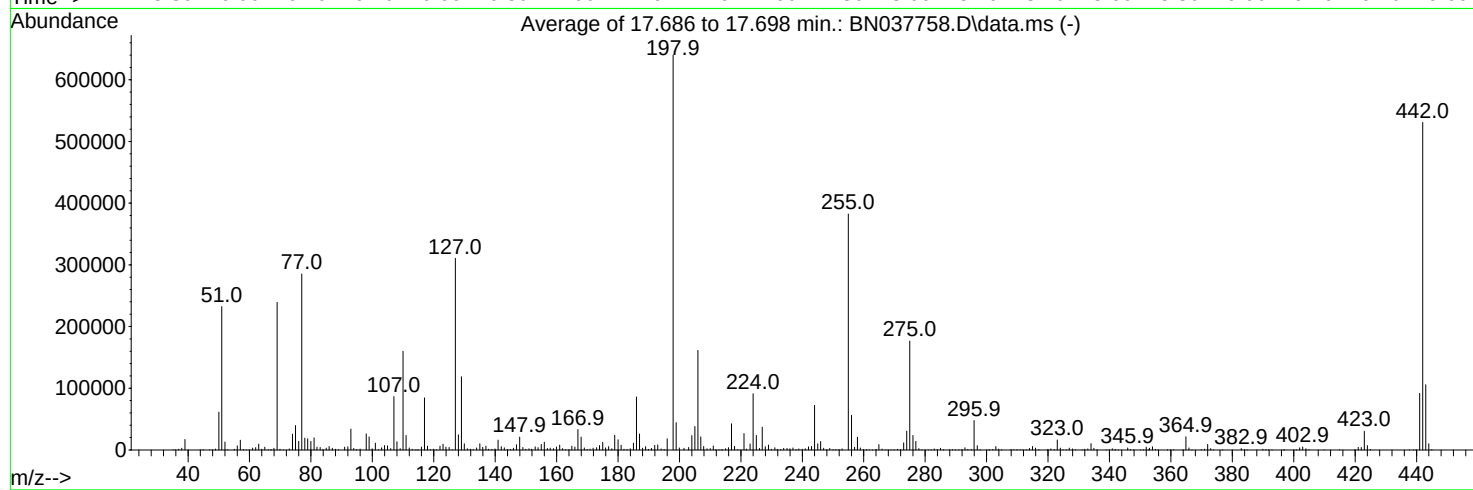
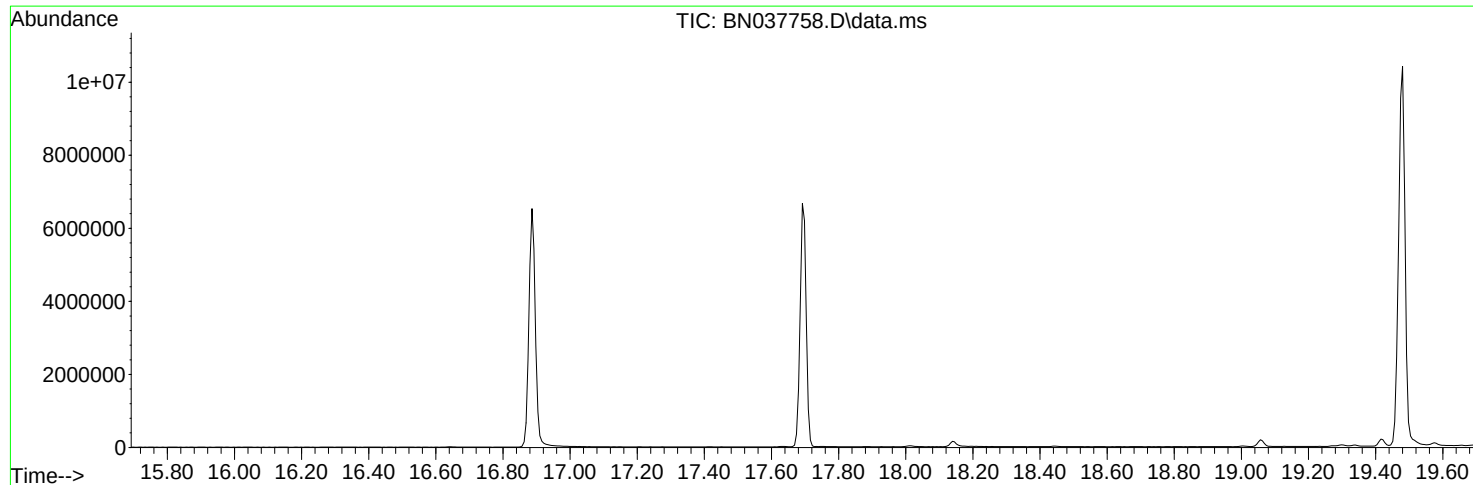
Date	Instrument Name	DFTPP Data File
9/17/2025	BNA_N	<u>BN037739.D</u>
Compound Name	Response	Retention Time
DDT	2253525	20.727
DDD	23969	20.286
DDE	1849	19.78
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
25818	2279343	1.13

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037758.D
Acq On : 18 Sep 2025 02:06
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025



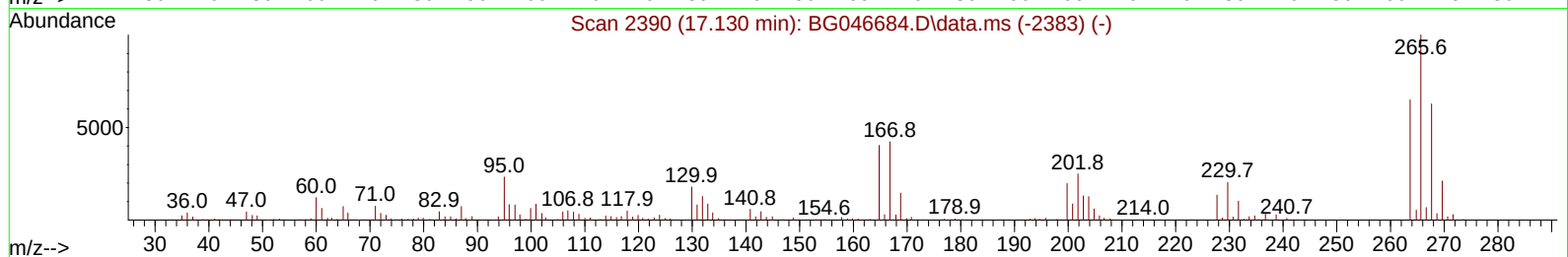
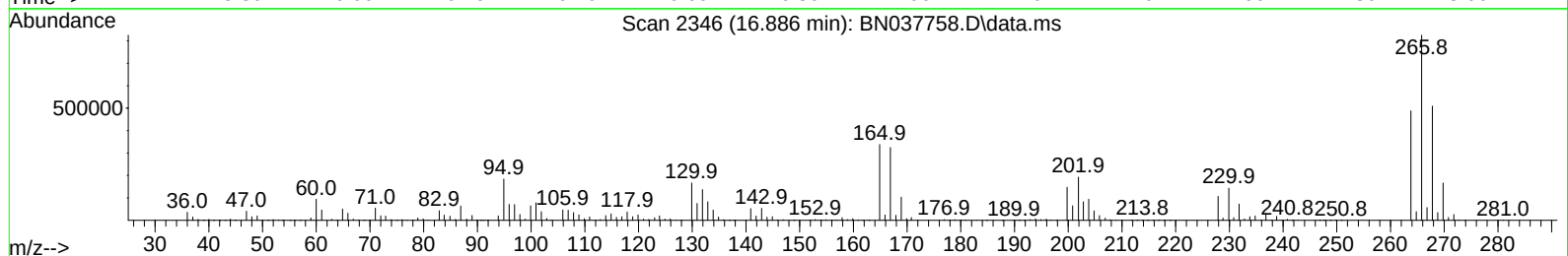
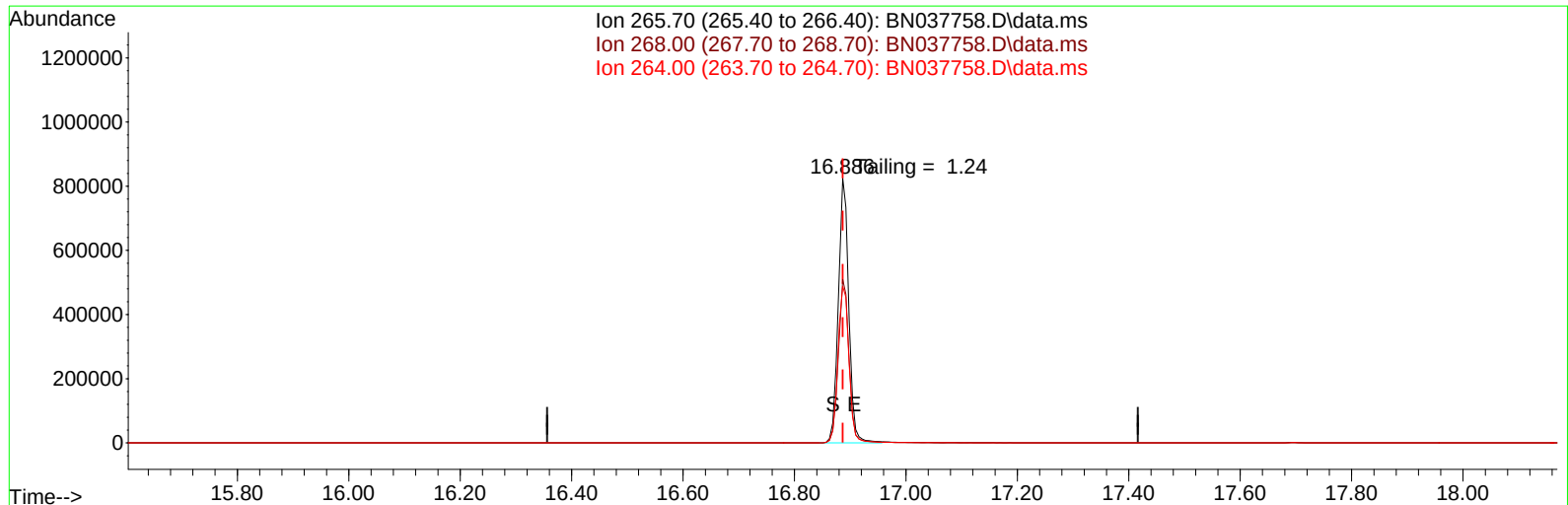
AutoFind: Scans 2482, 2483, 2484; Background Corrected with Scan 2475

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.1	2651	PASS
69	69	100	100	100.0	239192	PASS
70	69	0.00	2	0.5	1177	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	640043	PASS
199	198	5	9	6.9	44243	PASS
365	198	1	100	3.3	21358	PASS
441	443	0.01	150	86.6	91685	PASS
442	442	100	100	100.0	530709	PASS
443	442	15	24	19.9	105811	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037758.D
Acq On : 18 Sep 2025 02:06
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 18 08:37:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 18 08:37:03 2025
Response via : Initial Calibration



TIC: BN037758.D\data.ms

(70) Pentachlorophenol (C)

16.886min (0.000) 150096.94 ng

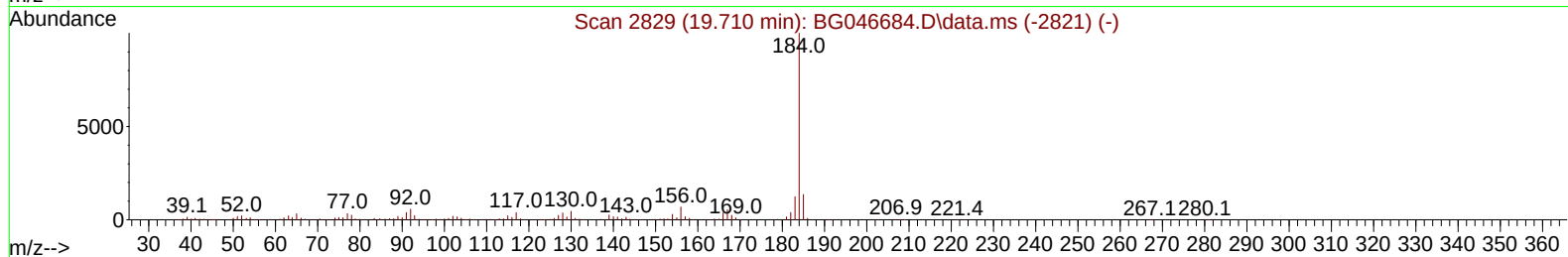
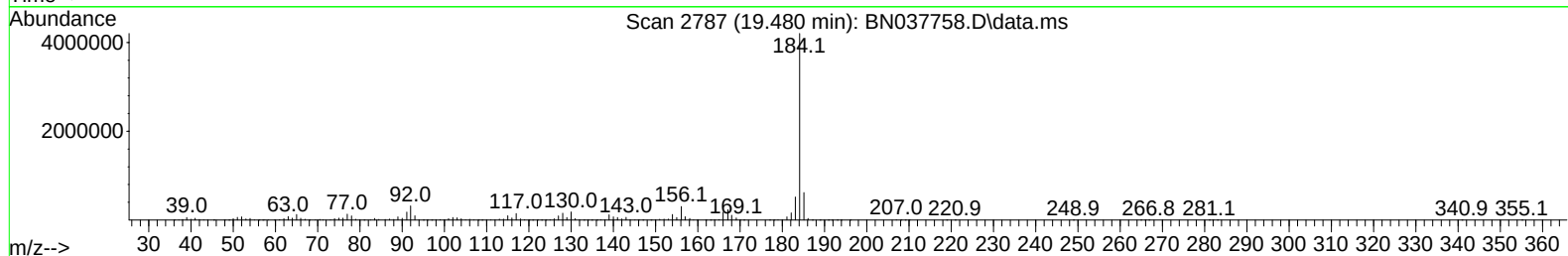
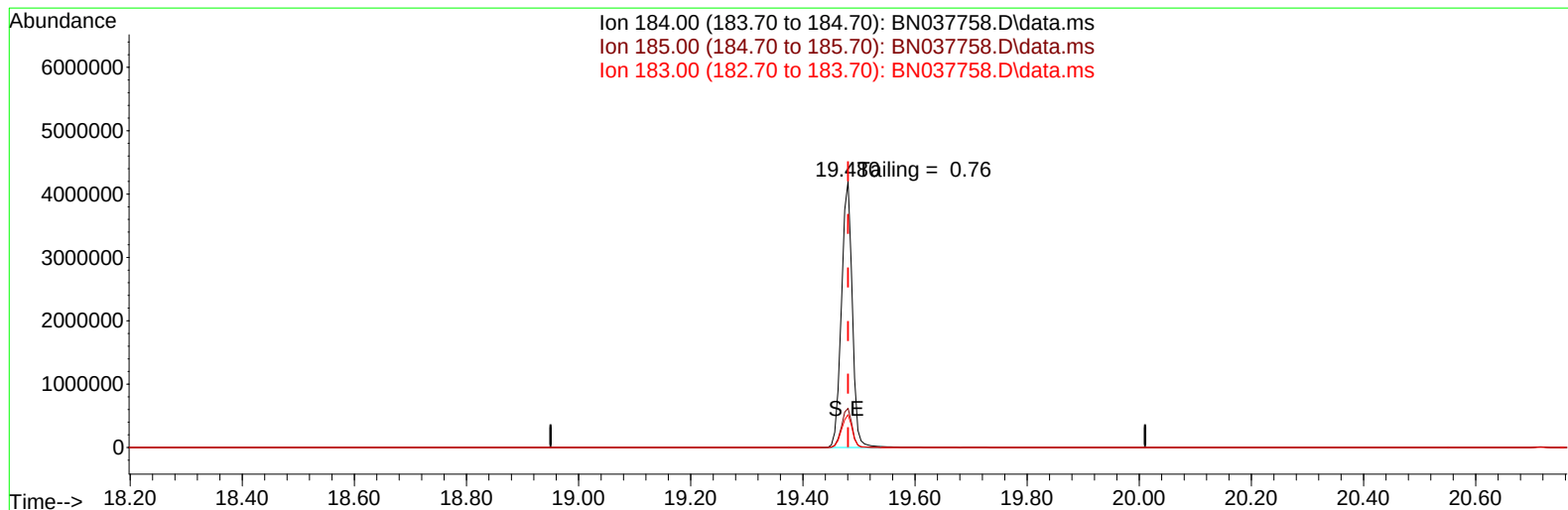
response 1070732

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	61.72
264.00	61.60	59.16
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037758.D
Acq On : 18 Sep 2025 02:06
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 18 08:37:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 18 08:37:03 2025
Response via : Initial Calibration



TIC: BN037758.D\data.ms

(77) Benzidine**19.480min (0.000) 95951.94 ng****response 5587198**

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.72
183.00	13.20	12.39
0.00	0.00	0.00

Instrument :
 BNA_N
 ClientSampleId :
 DFTPP

DDT Breakdown

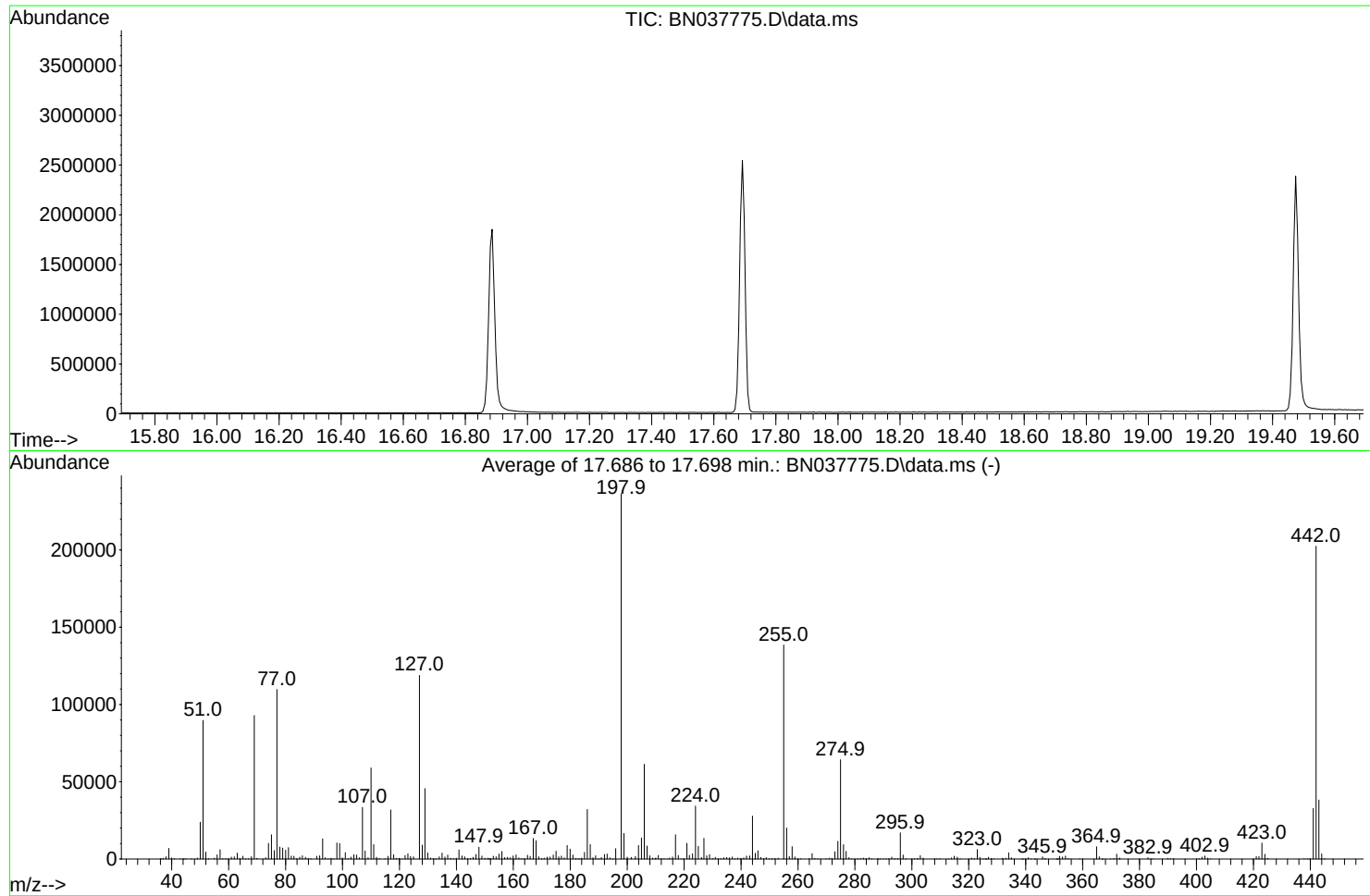
Date	Instrument Name	DFTPP Data File
9/17/2025	BNA_N	<u>BN037758.D</u>
Compound Name	Response	Retention Time
DDT	2444036	20.716
DDD	52273	20.274
DDE	1911	19.769
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
54184	2498220	2.17

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037775.D
Acq On : 18 Sep 2025 13:53
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025



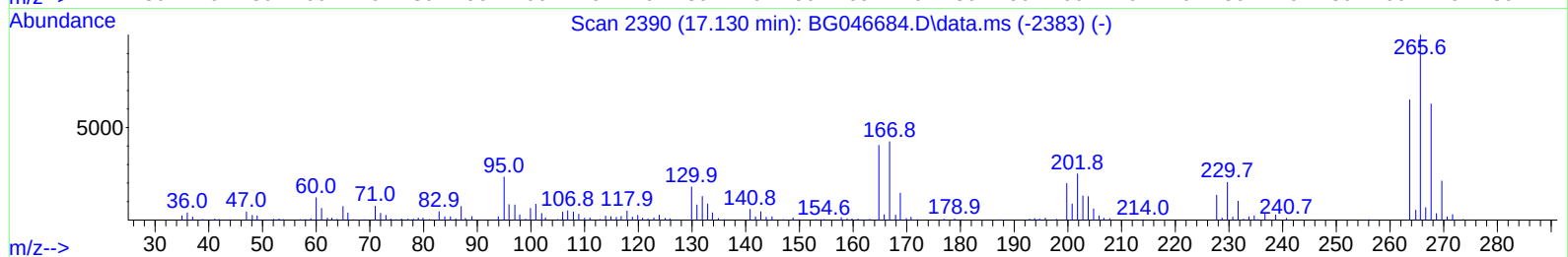
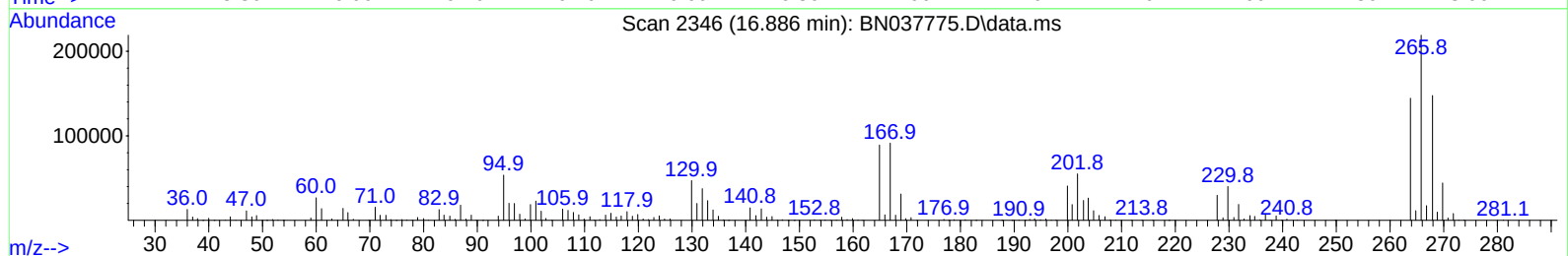
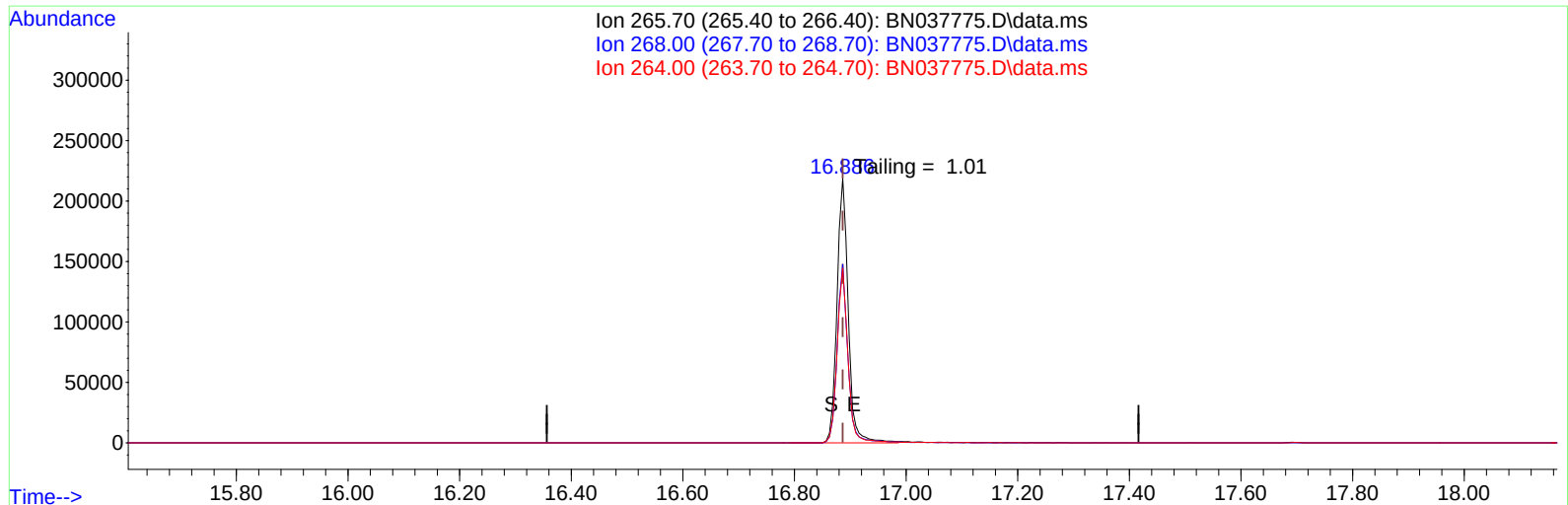
AutoFind: Scans 2482, 2483, 2484; Background Corrected with Scan 2475

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.7	1536	PASS
69	69	100	100	100.0	92893	PASS
70	69	0.00	2	0.5	488	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	236267	PASS
199	198	5	9	7.0	16530	PASS
365	198	1	100	3.4	7963	PASS
441	443	0.01	150	85.6	32739	PASS
442	442	100	100	100.0	202432	PASS
443	442	15	24	18.9	38232	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037775.D
Acq On : 18 Sep 2025 13:53
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 18 14:26:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 18 14:26:16 2025
Response via : Initial Calibration



TIC: BN037775.D\data.ms

(70) Pentachlorophenol (C)

16.886min (0.000) 277.80 ng

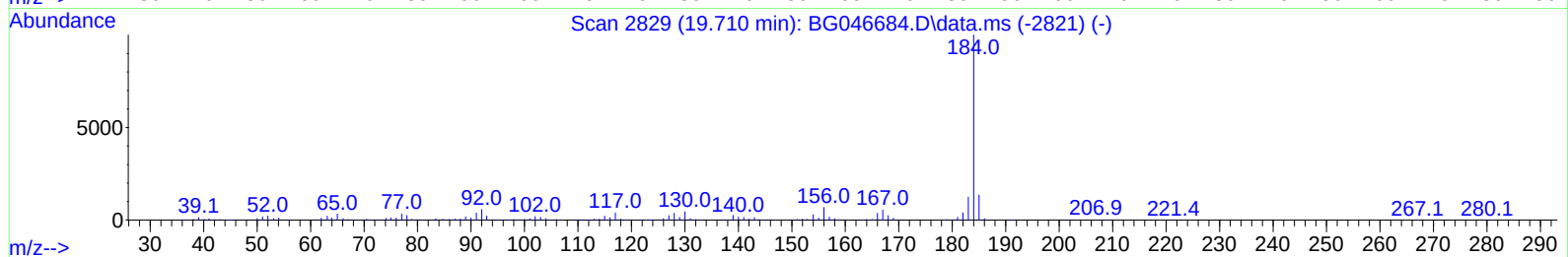
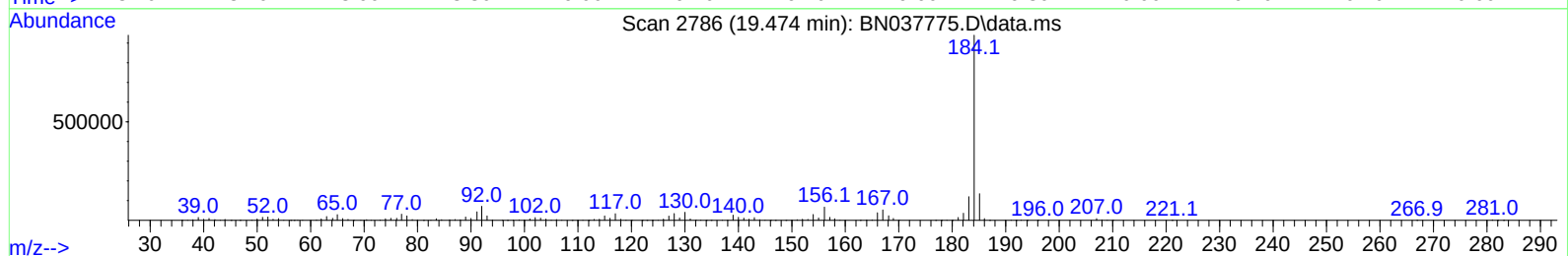
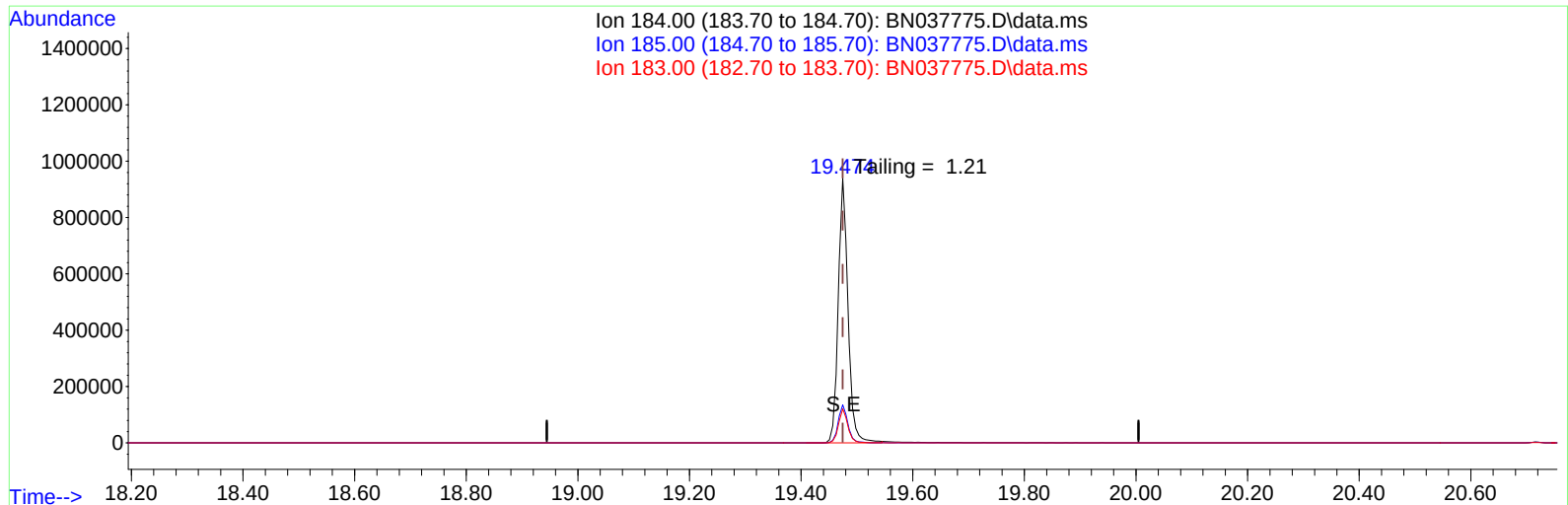
response 307595

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	67.44
264.00	61.60	66.00
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037775.D
Acq On : 18 Sep 2025 13:53
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 18 14:26:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 18 14:26:16 2025
Response via : Initial Calibration



TIC: BN037775.D\data.ms

(77) Benzidine

19.474min (0.000) 0.00 ng

response 1155100

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.36
183.00	13.20	12.81
0.00	0.00	0.00

Instrument :

BNA_N

ClientSampleId :

DFTPP

DDT Breakdown

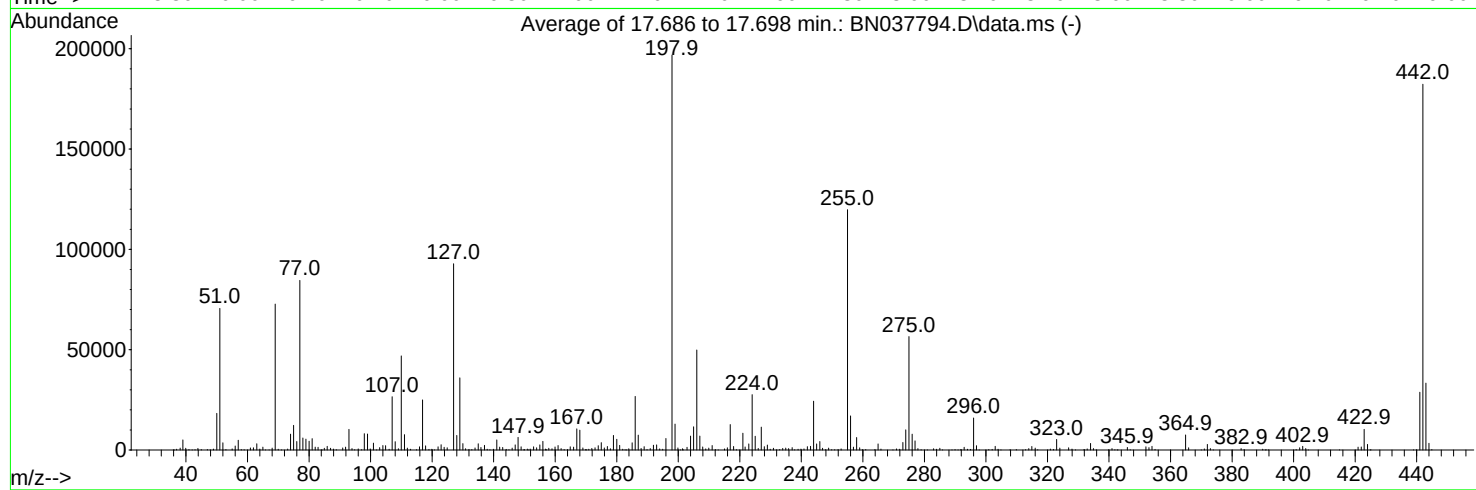
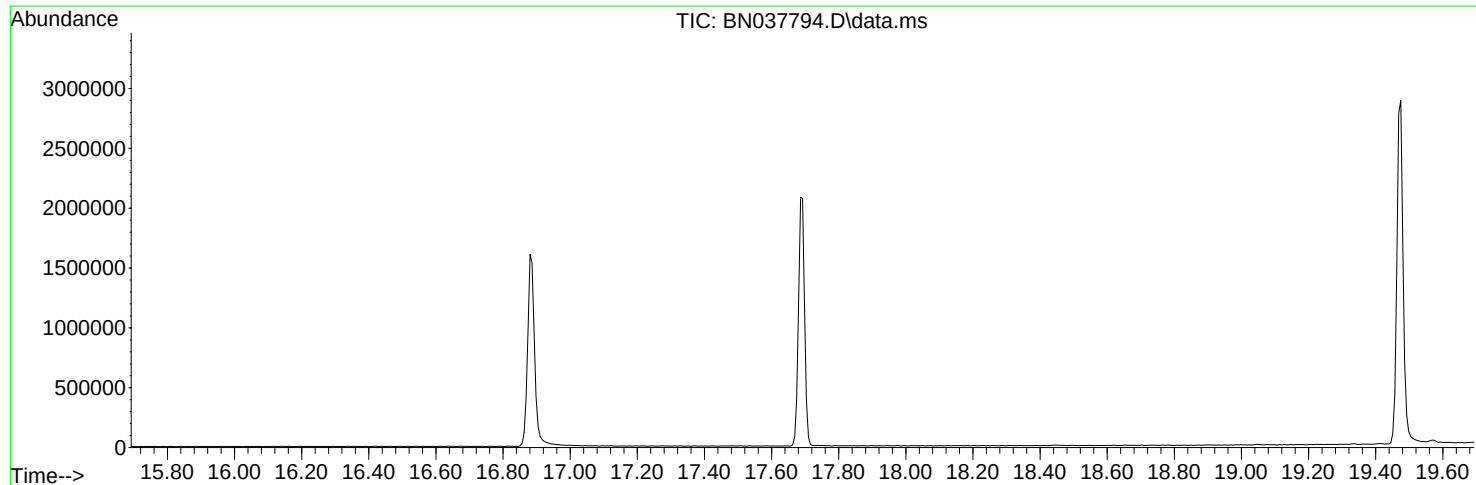
Date	Instrument Name	DFTPP Data File
9/18/2025	BNA_N	<u>BN037775.D</u>
Compound Name	Response	Retention Time
DDT	760598	20.715
DDD	22424	20.274
DDE	1646	19.774
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
24070	784668	3.07

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037794.D
Acq On : 19 Sep 2025 02:08
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025



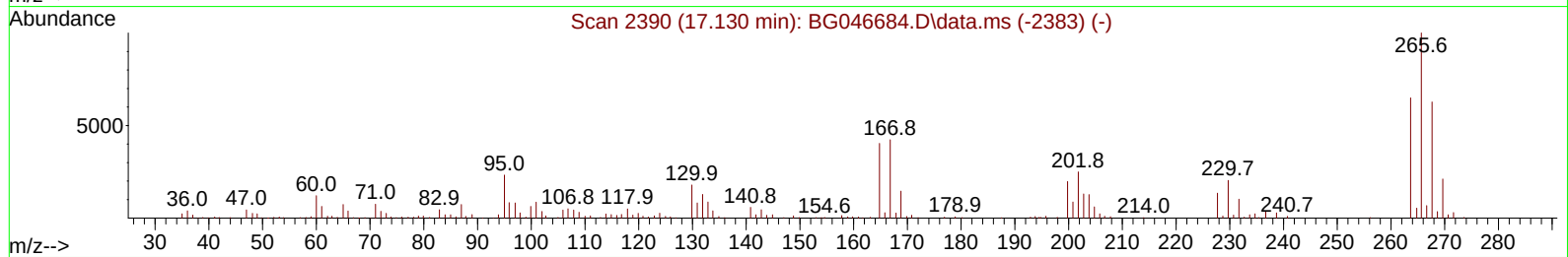
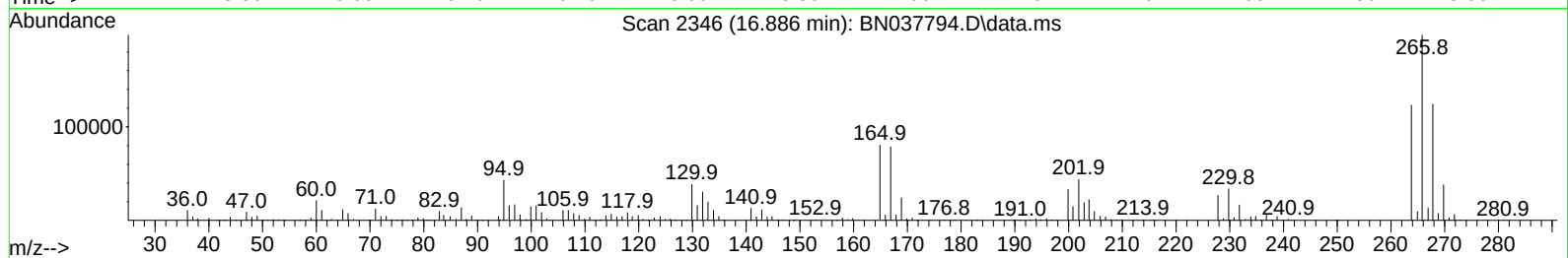
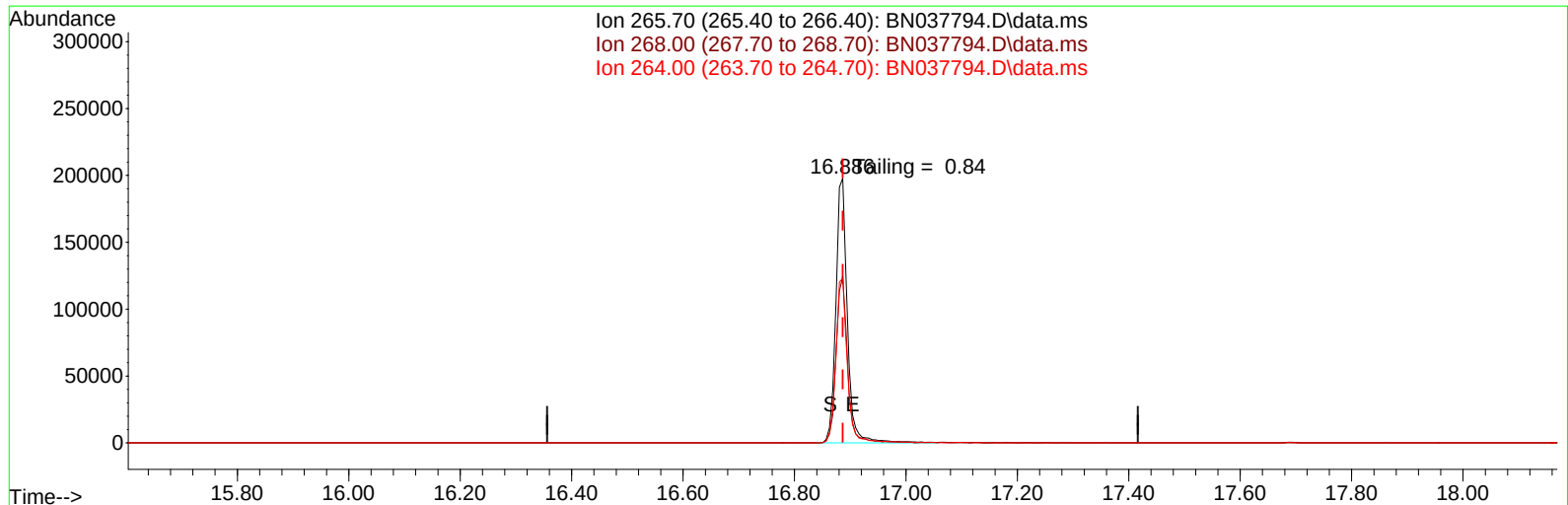
AutoFind: Scans 2482, 2483, 2484; Background Corrected with Scan 2475

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.4	987	PASS
69	69	100	100	100.0	72725	PASS
70	69	0.00	2	0.6	414	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	196813	PASS
199	198	5	9	6.6	12909	PASS
365	198	1	100	3.8	7534	PASS
441	443	0.01	150	86.4	28805	PASS
442	442	100	100	100.0	182293	PASS
443	442	15	24	18.3	33347	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037794.D
Acq On : 19 Sep 2025 02:08
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 19 04:29:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Sep 19 04:29:39 2025
Response via : Initial Calibration



TIC: BN037794.D\data.ms

(70) Pentachlorophenol (C)

16.886min (0.000) 32518.88 ng

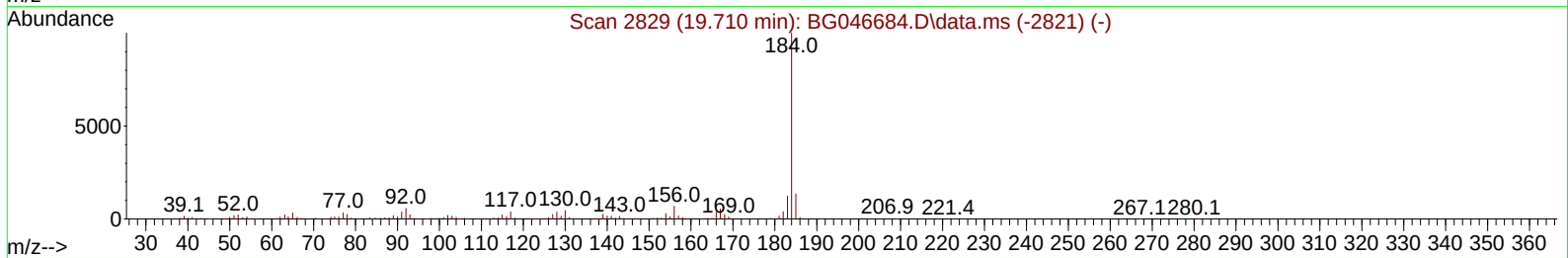
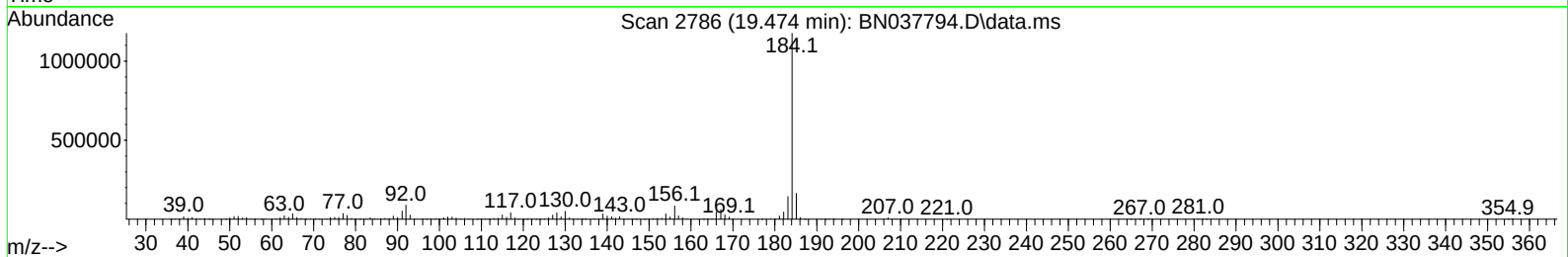
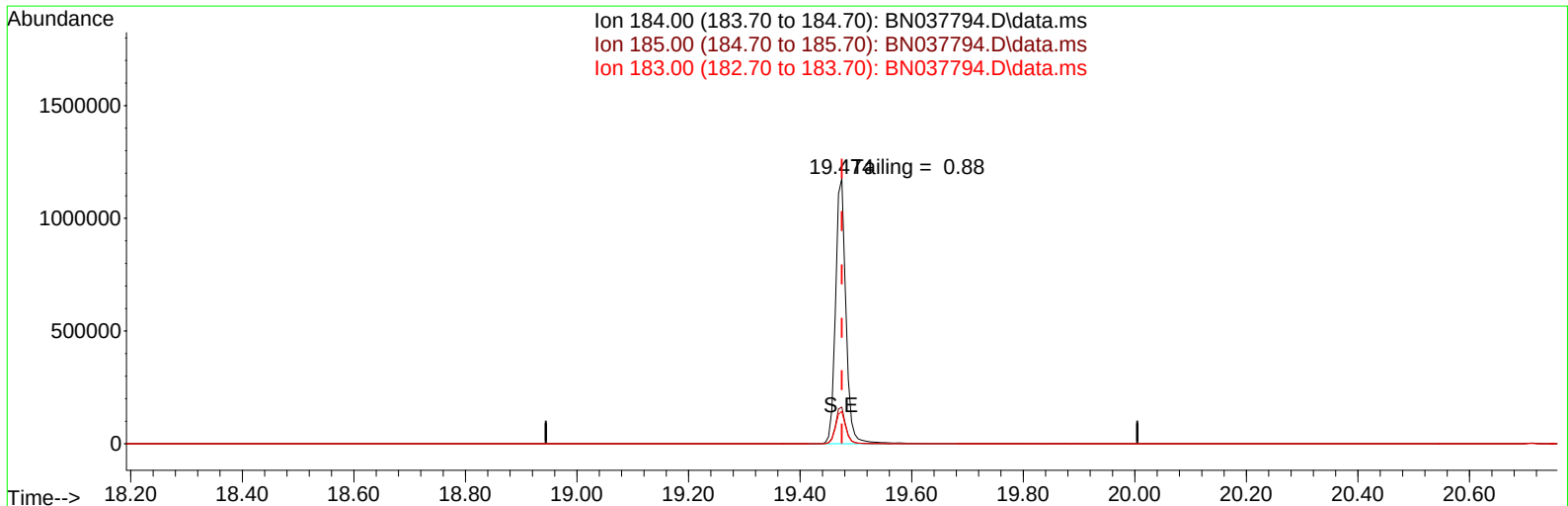
response 284548

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.85
264.00	61.60	62.23
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037794.D
Acq On : 19 Sep 2025 02:08
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 19 04:29:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Sep 19 04:29:39 2025
Response via : Initial Calibration



TIC: BN037794.D\data.ms

(77) Benzidine

19.474min (0.000) 0.00 ng

response 1527830

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.88
183.00	13.20	12.20
0.00	0.00	0.00

Instrument :

BNA_N

ClientSampleId :

DFTPP

DDT Breakdown

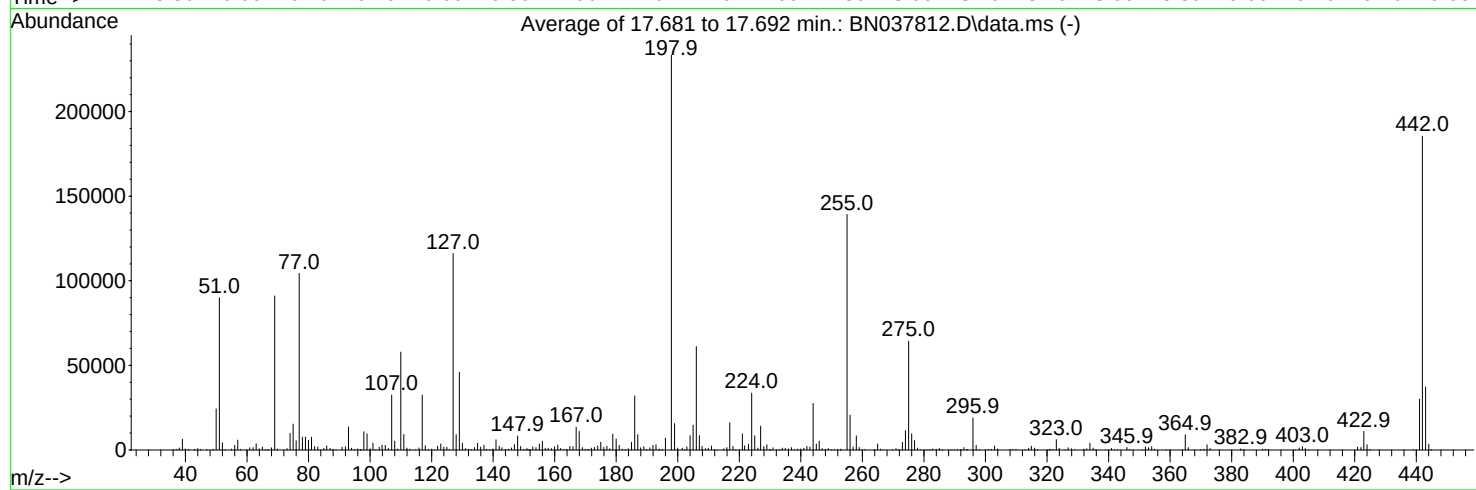
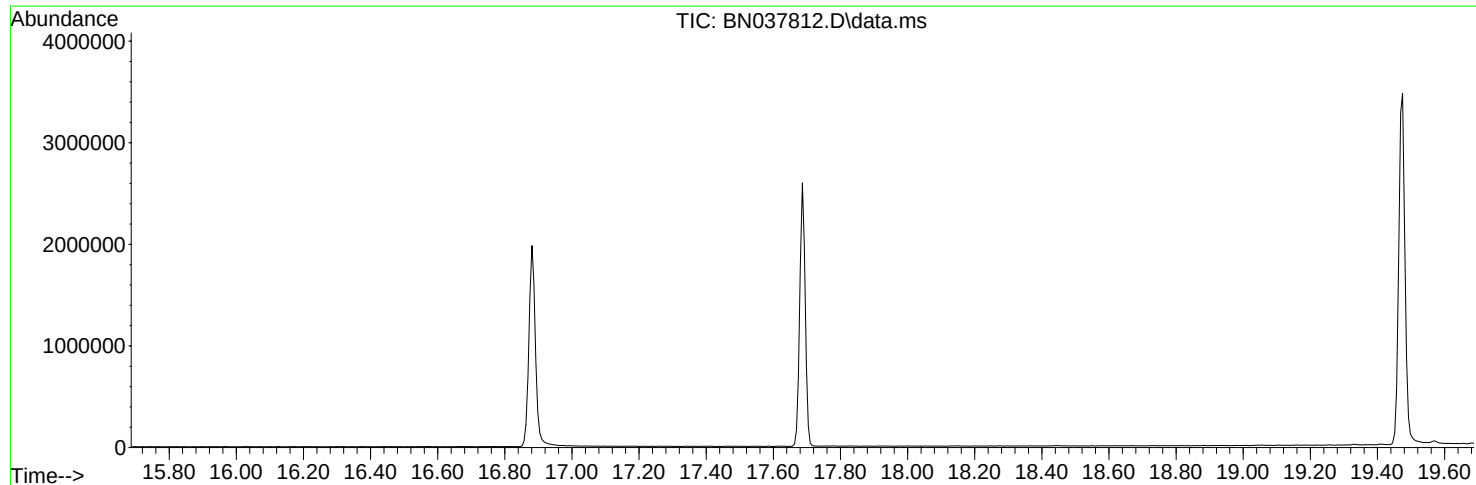
Date	Instrument Name	DFTPP Data File
9/18/2025	BNA_N	<u>BN037794.D</u>
Compound Name	Response	Retention Time
DDT	688292	20.71
DDD	26538	20.269
DDE	1670	19.769
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
28208	716500	3.94

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037812.D
Acq On : 19 Sep 2025 13:39
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025



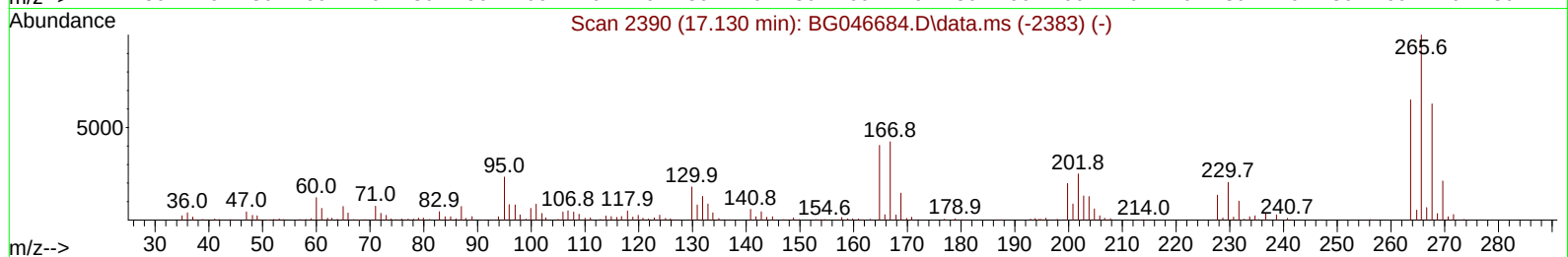
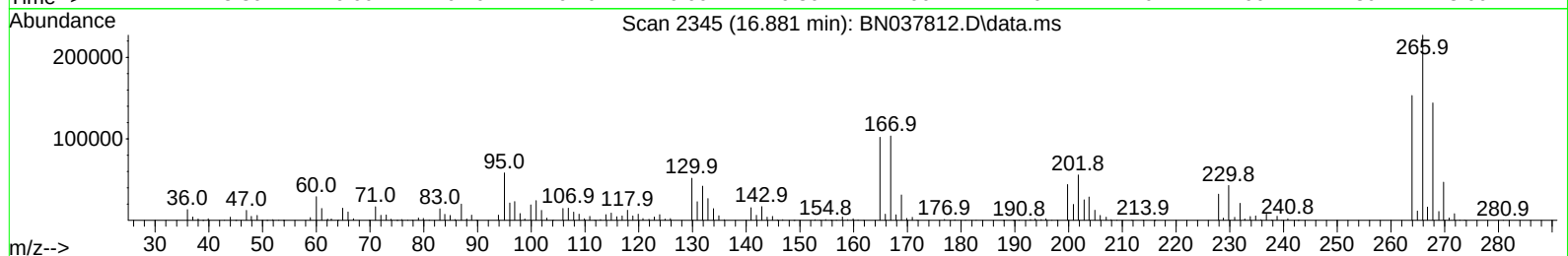
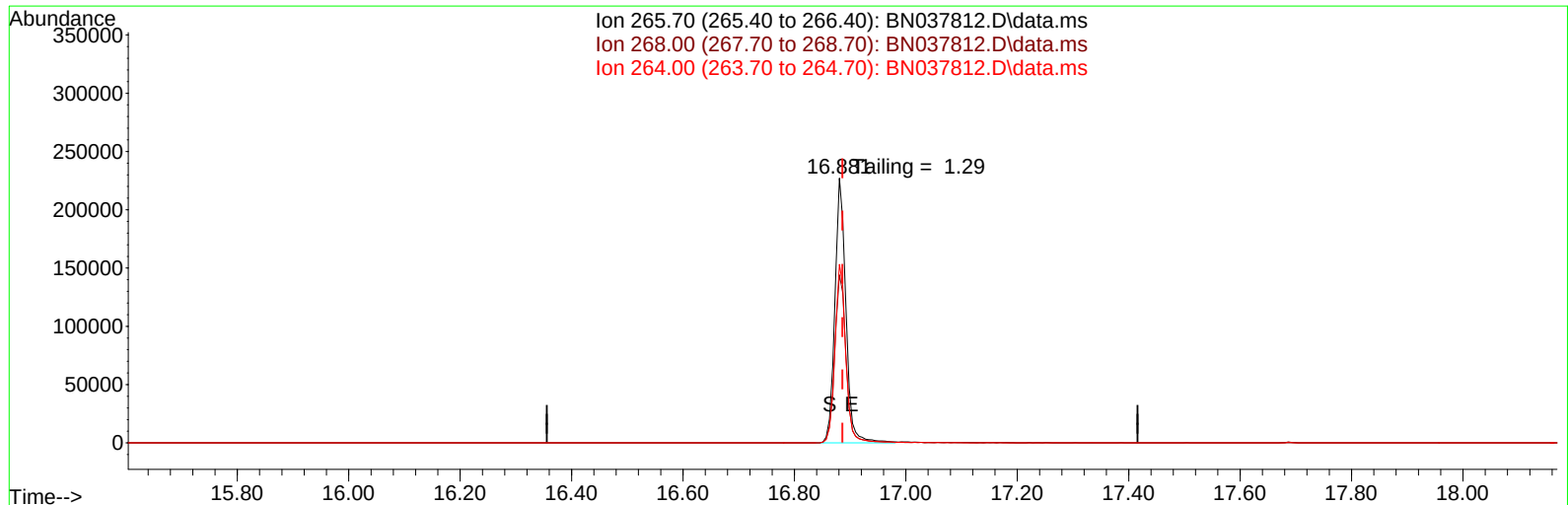
AutoFind: Scans 2481, 2482, 2483; Background Corrected with Scan 2474

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.4	1252	PASS
69	69	100	100	100.0	91029	PASS
70	69	0.00	2	0.6	539	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	233408	PASS
199	198	5	9	6.7	15546	PASS
365	198	1	100	3.8	8907	PASS
441	443	0.01	150	80.8	30061	PASS
442	442	100	100	100.0	185456	PASS
443	442	15	24	20.1	37200	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037812.D
Acq On : 19 Sep 2025 13:39
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 22 20:01:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration



TIC: BN037812.D\data.ms

(70) Pentachlorophenol (C)

16.881min (-0.005) 23824.83 ng

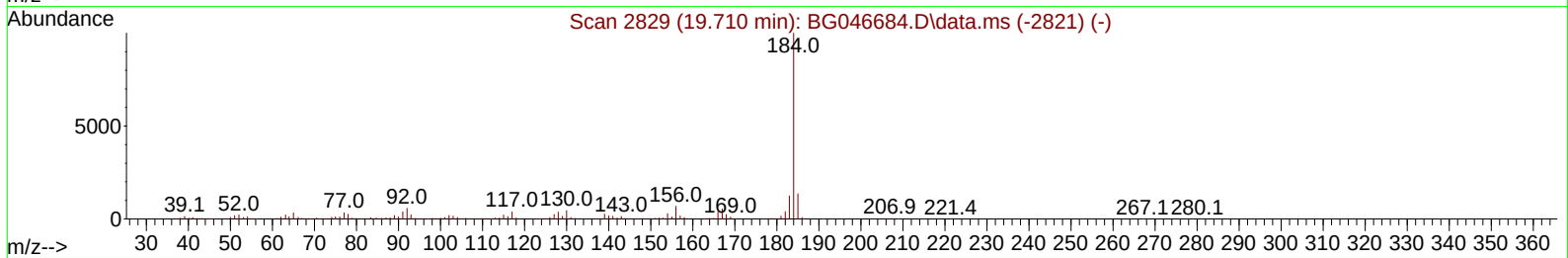
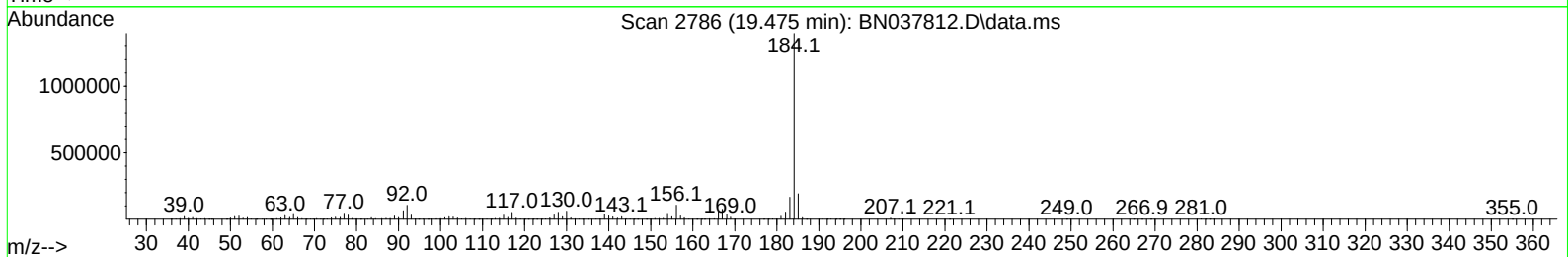
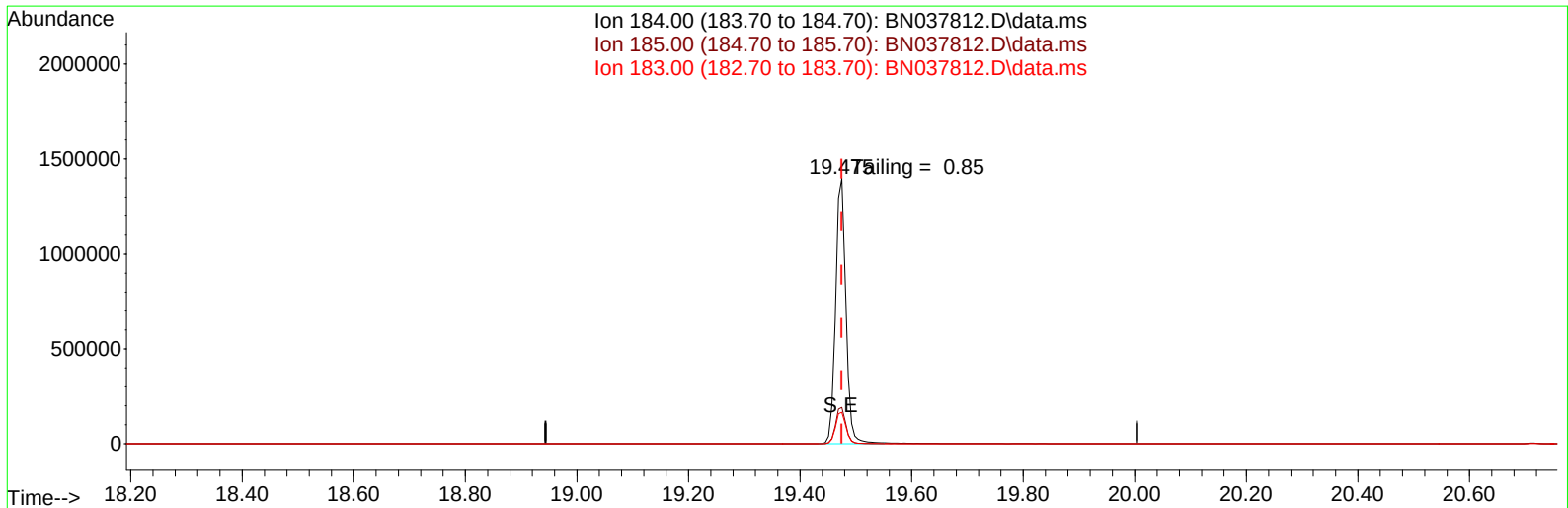
response 312055

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.43
264.00	61.60	67.43
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037812.D
Acq On : 19 Sep 2025 13:39
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 22 20:01:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration



TIC: BN037812.D\data.ms

(77) Benzidine

19.475min (+ 0.001) 0.00 ng

response 1812303

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.75
183.00	13.20	11.88
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

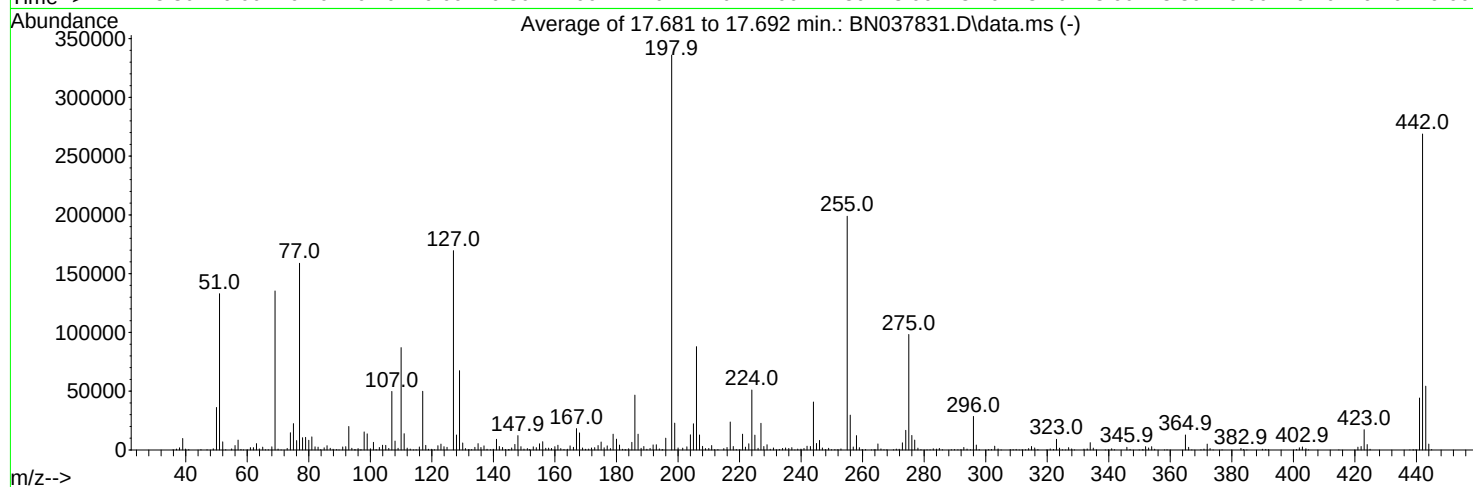
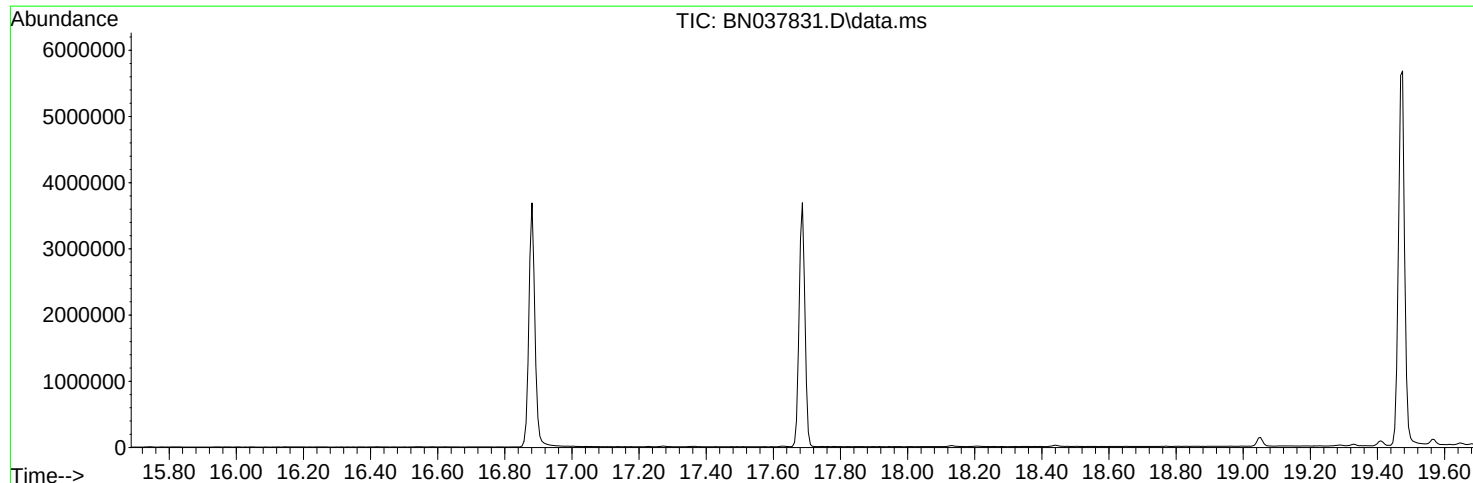
Date	Instrument Name	DFTPP Data File
9/19/2025	BNA_N	<u>BN037812.D</u>
Compound Name	Response	Retention Time
DDT	836771	20.716
DDD	28711	20.275
DDE	1832	19.769
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
30543	867314	3.52

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037831.D
Acq On : 20 Sep 2025 01:16
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025



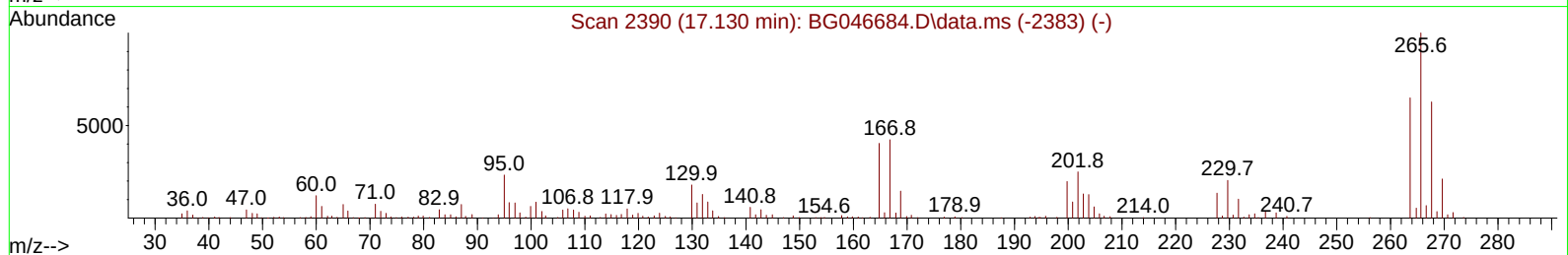
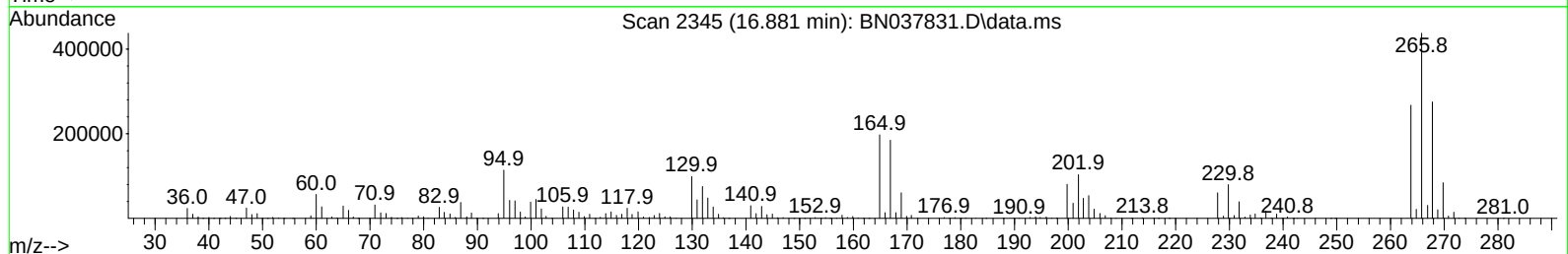
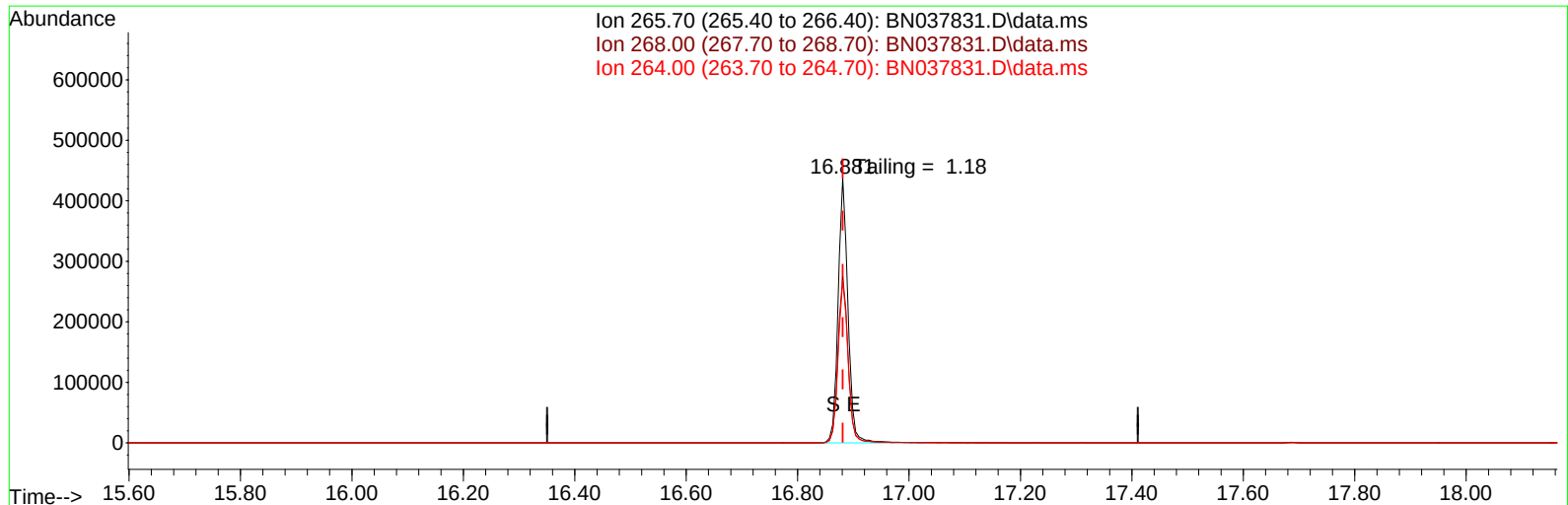
AutoFind: Scans 2481, 2482, 2483; Background Corrected with Scan 2474

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.9	2623	PASS
69	69	100	100	100.0	135264	PASS
70	69	0.00	2	0.6	760	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	335979	PASS
199	198	5	9	6.8	22795	PASS
365	198	1	100	3.8	12691	PASS
441	443	0.01	150	81.3	44184	PASS
442	442	100	100	100.0	268907	PASS
443	442	15	24	20.2	54328	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037831.D
Acq On : 20 Sep 2025 01:16
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 20 01:53:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration



TIC: BN037831.D\data.ms

(70) Pentachlorophenol (C)

16.881min (0.000) 34698.10 ng

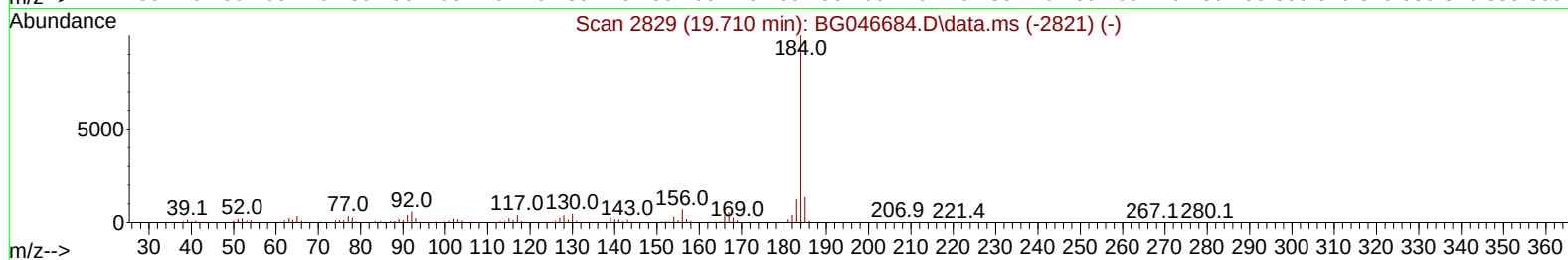
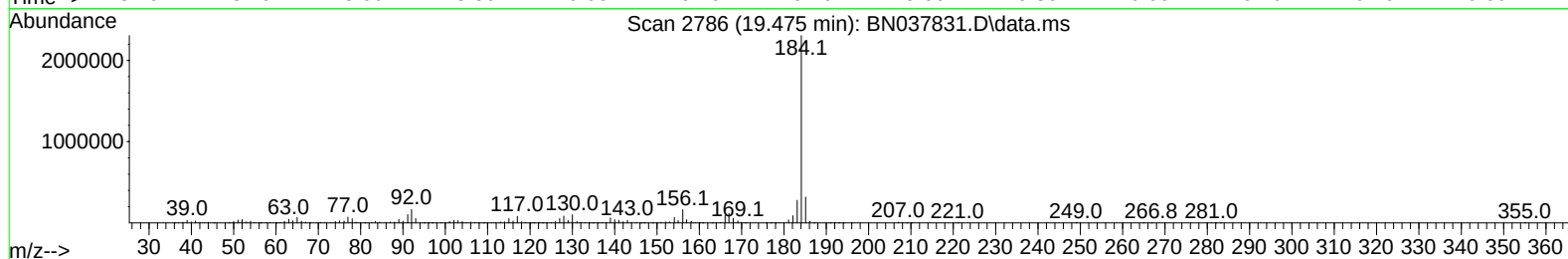
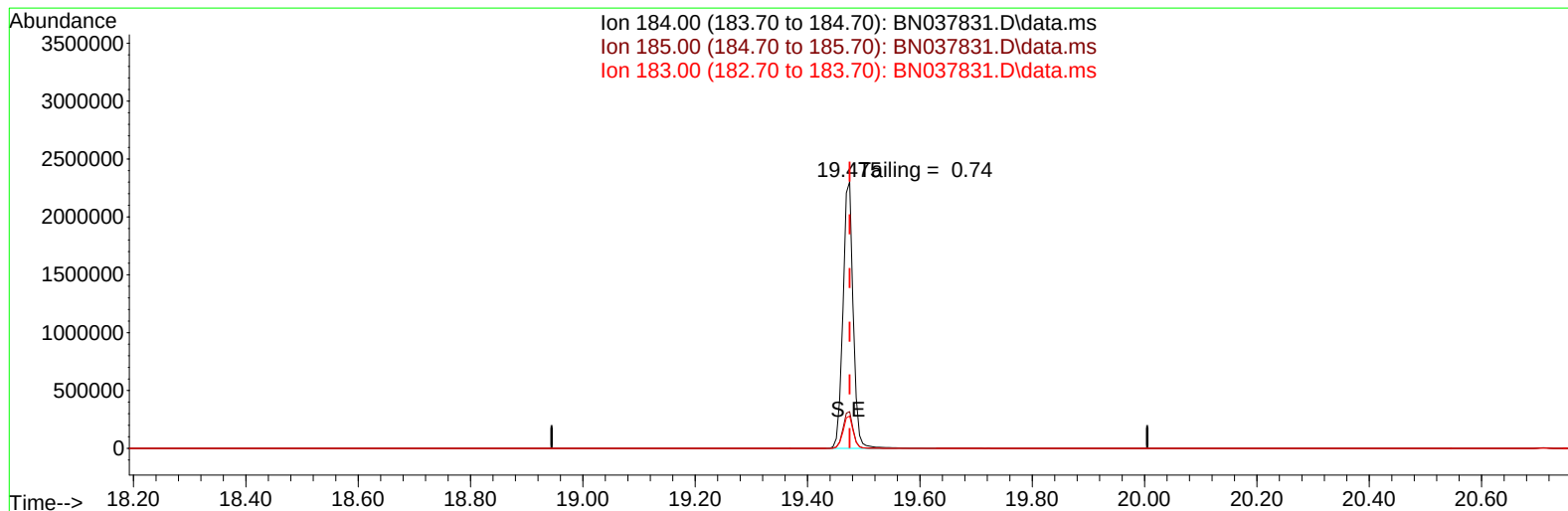
response 541064

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.87
264.00	61.60	61.16
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037831.D
Acq On : 20 Sep 2025 01:16
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 20 01:53:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration



TIC: BN037831.D\data.ms

(77) Benzdine

19.475min (0.000) 0.00 ng

response 2907322

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.77
183.00	13.20	12.11
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
9/19/2025	BNA_N	<u>BN037831.D</u>
Compound Name	Response	Retention Time
DDT	1283981	20.71
DDD	30254	20.269
DDE	1457	19.769
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
31711	1315692	2.41

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:	PB169692BL	SDG No.:	Q3095
Lab Sample ID:	PB169692BL	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
BN037796.D	1	09/15/25 10:15	09/19/25 03:24	PB169692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.30		30 - 150		75%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		97%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		92%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.34		58 - 132		84%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7700	7.833				
1146-65-2	Naphthalene-d8	18700	10.637				
15067-26-2	Acenaphthene-d10	7810	14.484				
1517-22-2	Phenanthrene-d10	12500	17.236				
1719-03-5	Chrysene-d12	10000	21.411				
1520-96-3	Perylene-d12	10300	23.739				

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\BN091825\
 Data File : BN037796.D
 Acq On : 19 Sep 2025 03:24
 Operator : RC/JU
 Sample : PB169692BL
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB169692BL

Quant Time: Sep 19 04:36:06 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7701	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	18665	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	7806	0.400	ng	-0.01
19) Phenanthrene-d10	17.236	188	12511	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	10022	0.400	ng	0.00
35) Perylene-d12	23.739	264	10278	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	5446	0.308	ng	0.00
5) Phenol-d6	6.988	99	6827	0.298	ng	0.00
8) Nitrobenzene-d5	8.982	82	5277	0.387	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	7773	0.314	ng	-0.02
14) 2,4,6-Tribromophenol	15.982	330	380	0.187	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	11980	0.367	ng	-0.01
27) Fluoranthene-d10	19.262	212	9482	0.302	ng	0.00
31) Terphenyl-d14	19.861	244	6849	0.337	ng	0.00

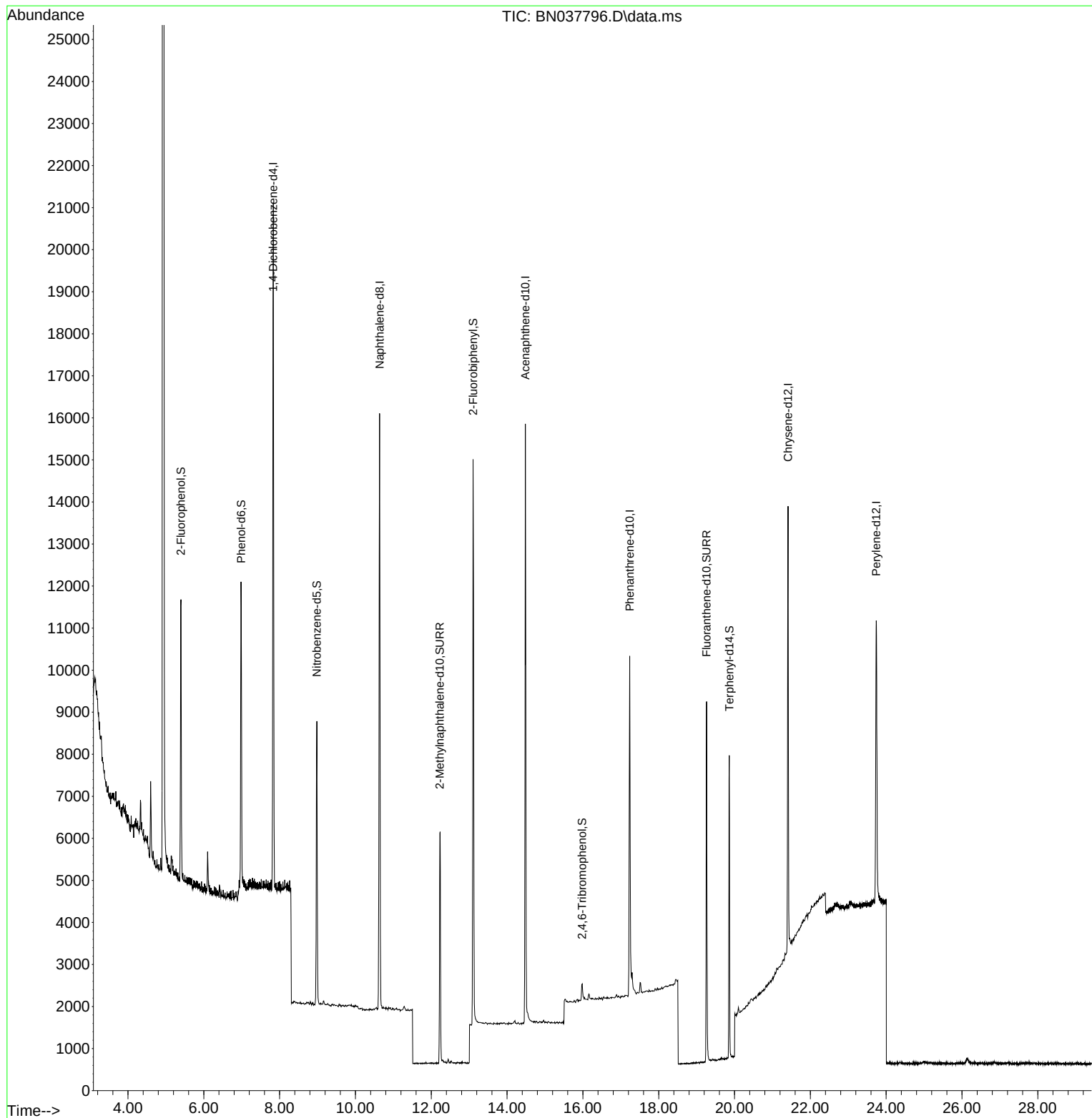
Target Compounds Qvalue

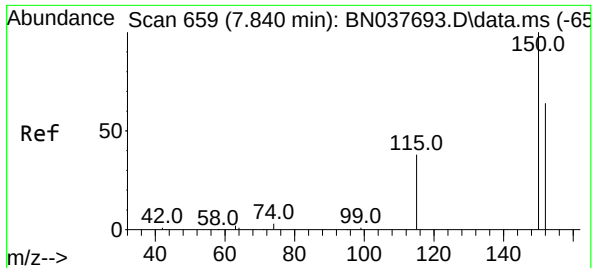
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037796.D
Acq On : 19 Sep 2025 03:24
Operator : RC/JU
Sample : PB169692BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169692BL

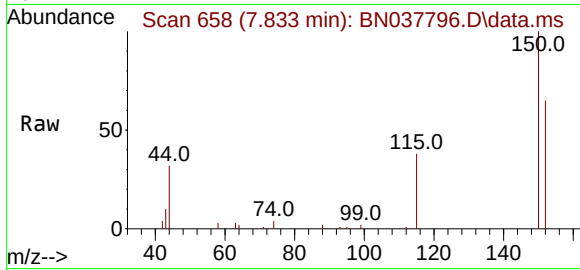
Quant Time: Sep 19 04:36:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



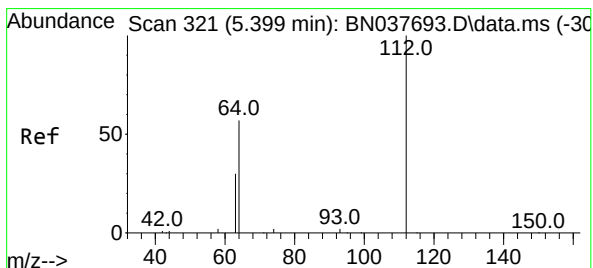
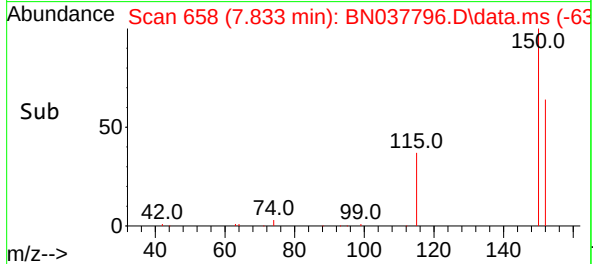
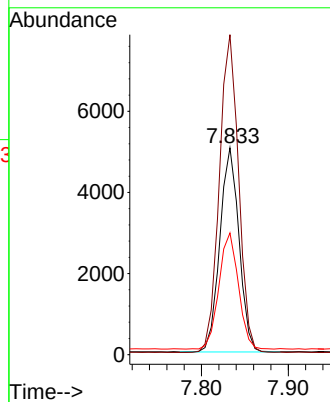


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037796.D
Acq: 19 Sep 2025 03:24

Instrument :
BNA_N
ClientSampleId :
PB169692BL

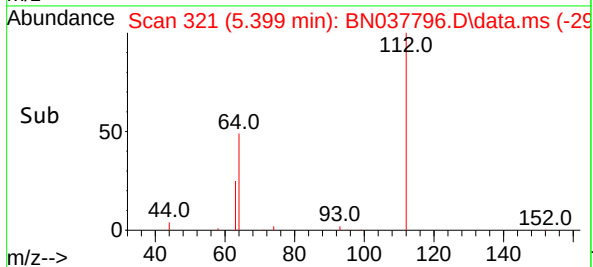
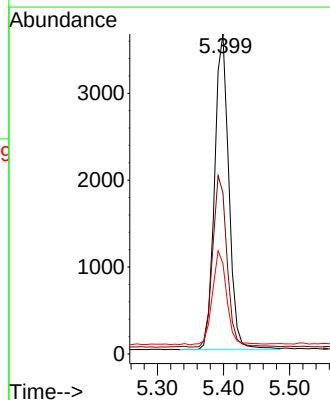
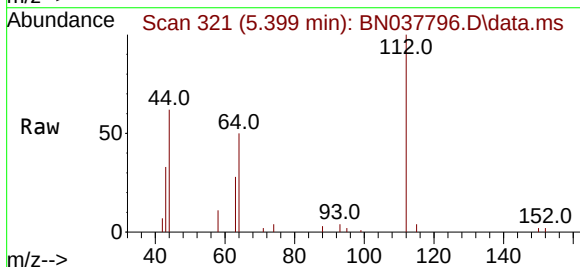


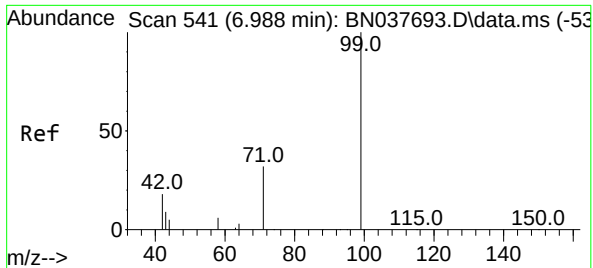
Tgt Ion:152 Resp: 7701
Ion Ratio Lower Upper
152 100
150 154.6 124.5 186.7
115 58.8 49.2 73.8



#4
2-Fluorophenol
Concen: 0.308 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN037796.D
Acq: 19 Sep 2025 03:24

Tgt Ion:112 Resp: 5446
Ion Ratio Lower Upper
112 100
64 54.6 44.9 67.3
63 29.7 24.7 37.1

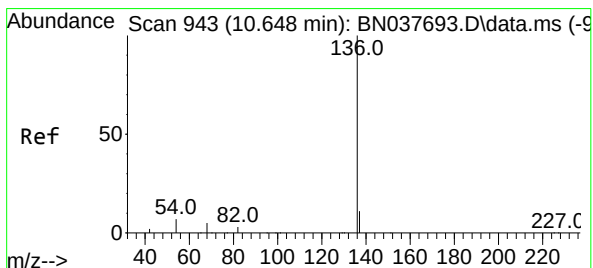
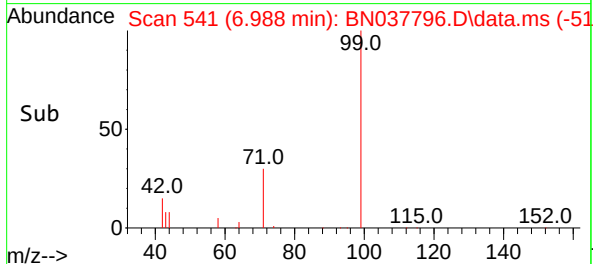
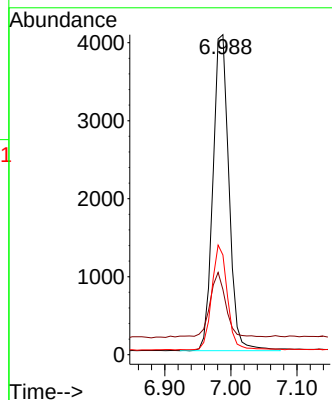
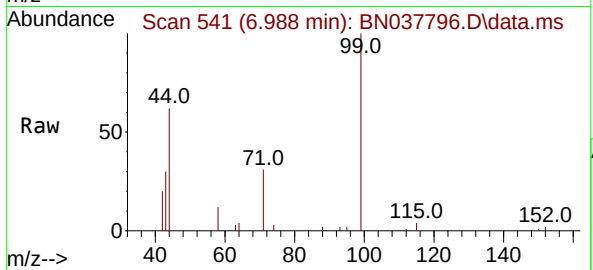




#5
Phenol-d6
Concen: 0.298 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037796.D
Acq: 19 Sep 2025 03:24

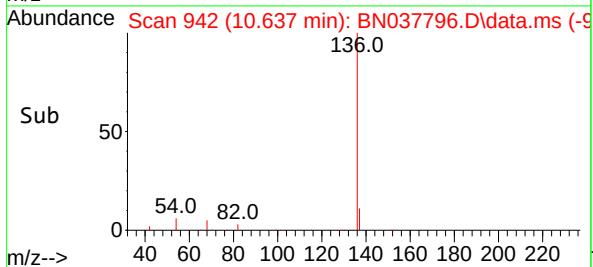
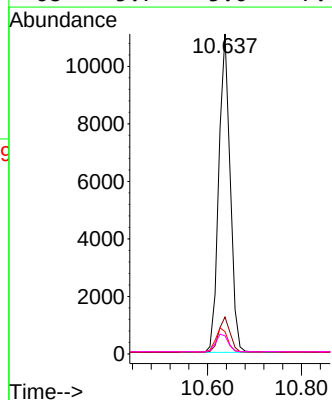
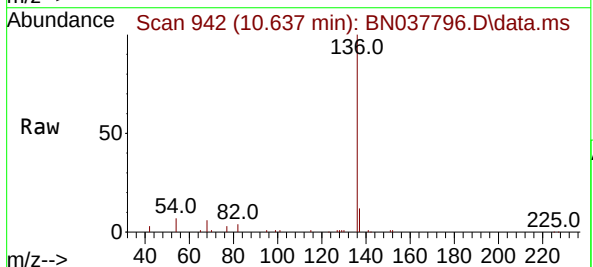
Instrument :
BNA_N
ClientSampleId :
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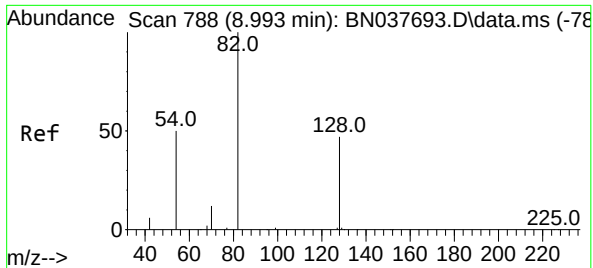
Tgt Ion: 99 Resp: 6827
Ion Ratio Lower Upper
99 100
42 21.6 16.6 24.8
71 32.5 26.7 40.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN037796.D
Acq: 19 Sep 2025 03:24

Tgt Ion: 136 Resp: 18665
Ion Ratio Lower Upper
136 100
137 11.5 9.1 13.7
54 7.0 6.3 9.5
68 5.7 5.0 7.4

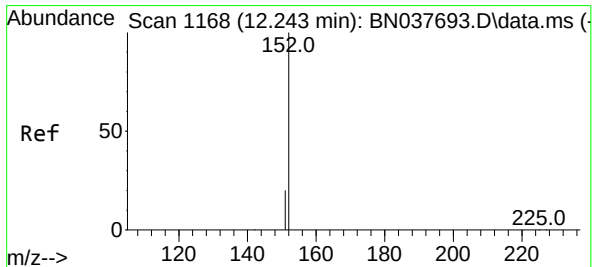
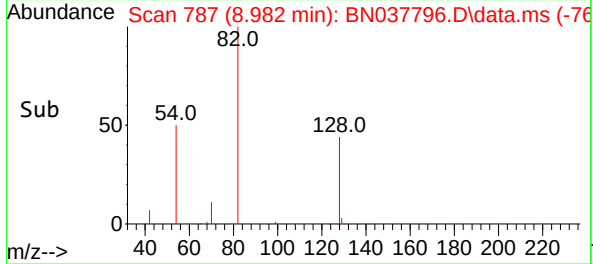
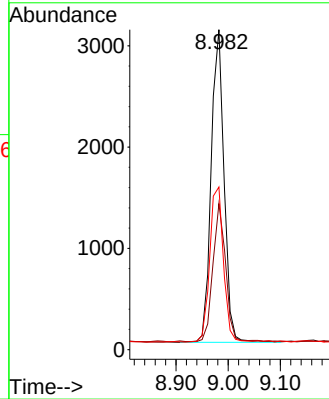
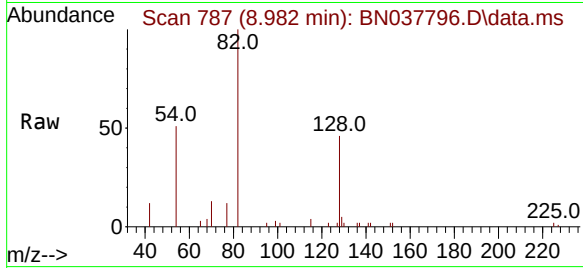




#8
Nitrobenzene-d5
Concen: 0.387 ng
RT: 8.982 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN037796.D
Acq: 19 Sep 2025 03:24

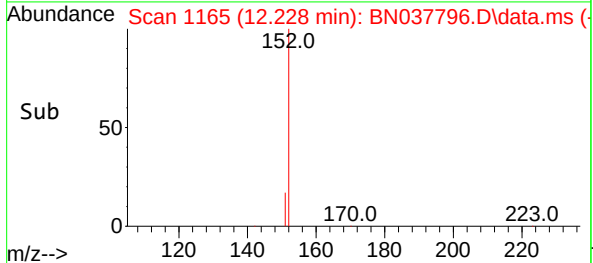
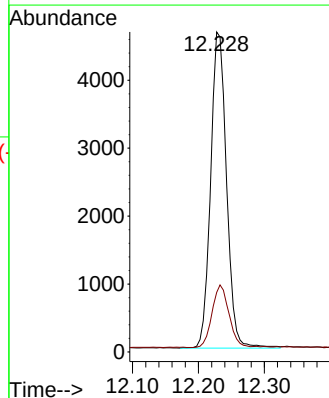
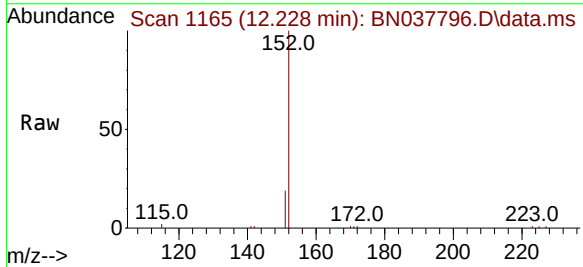
Instrument :
BNA_N
ClientSampleId :
PB169692BL

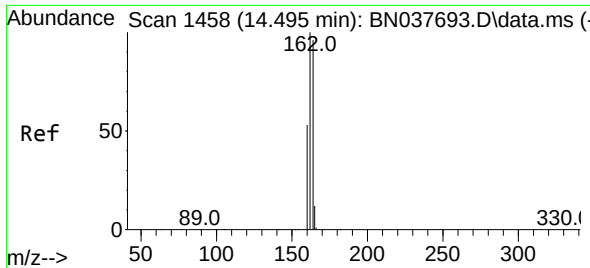
Tgt Ion:	82	Resp:	5277
Ion	Ratio	Lower	Upper
82	100		
128	45.6	38.3	57.5
54	50.8	41.4	62.2



#11
2-Methylnaphthalene-d10
Concen: 0.314 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037796.D
Acq: 19 Sep 2025 03:24

Tgt Ion:	152	Resp:	7773
Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.0	25.6

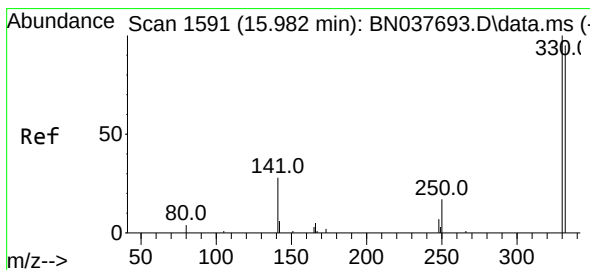
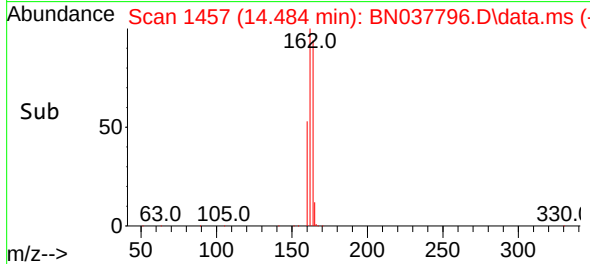
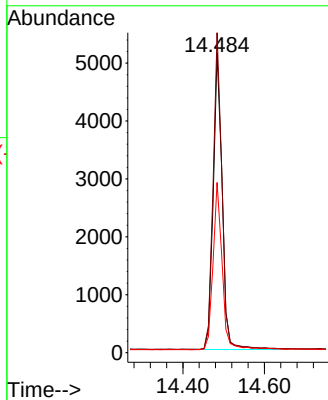
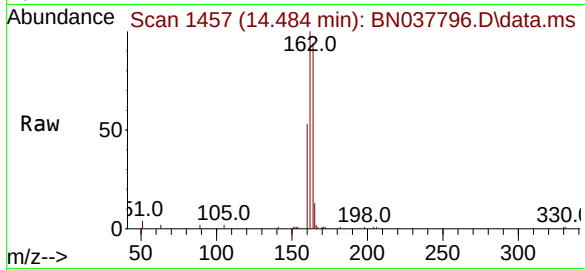




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037796.D
Acq: 19 Sep 2025 03:24

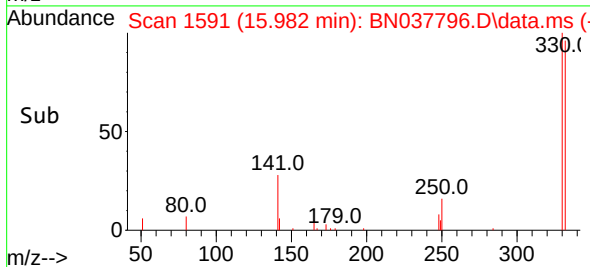
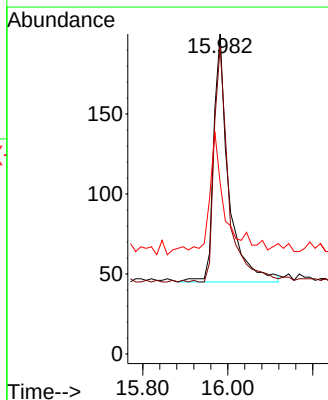
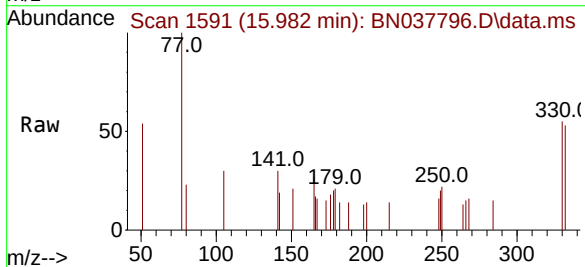
Instrument :
BNA_N
ClientSampleId :
PB169692BL

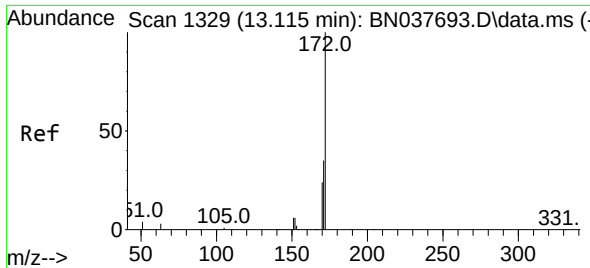
Tgt Ion	164	Resp	7806
Ion Ratio	Lower	Upper	
164	100		
162	106.6	83.1	124.7
160	56.7	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.187 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037796.D
Acq: 19 Sep 2025 03:24

Tgt Ion	330	Resp	380
Ion Ratio	Lower	Upper	
330	100		
332	91.6	75.3	112.9
141	47.4	35.0	52.4

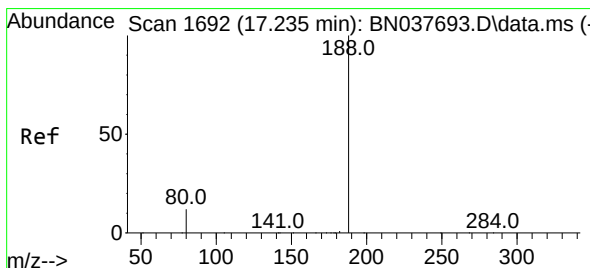
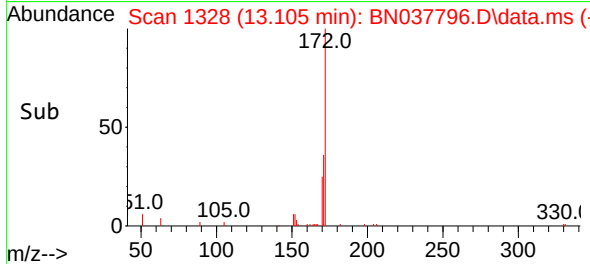
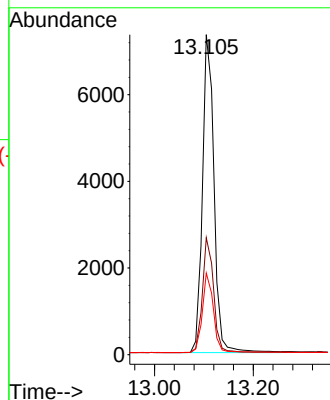
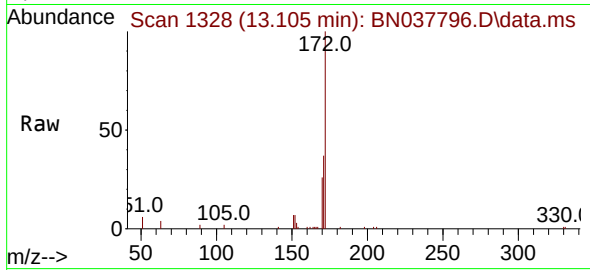




#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 13.105 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN037796.D
Acq: 19 Sep 2025 03:24

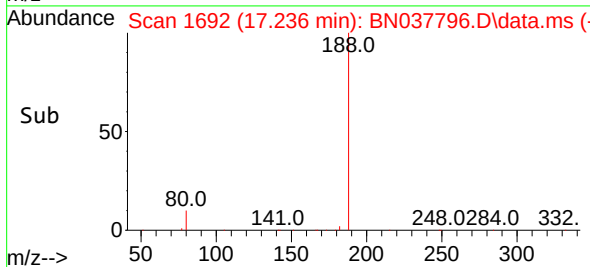
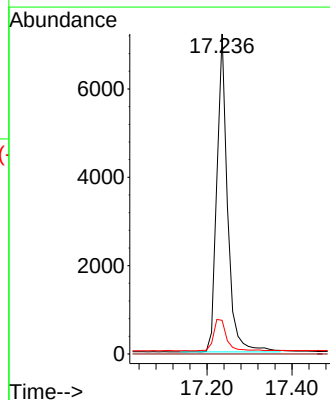
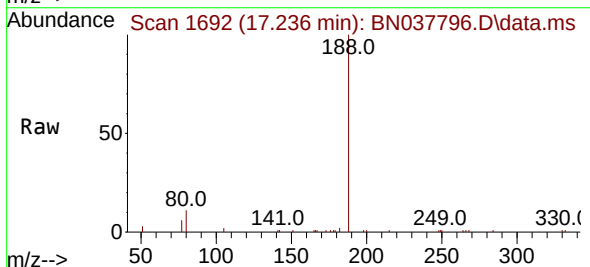
Instrument :
BNA_N
ClientSampleId :
PB169692BL

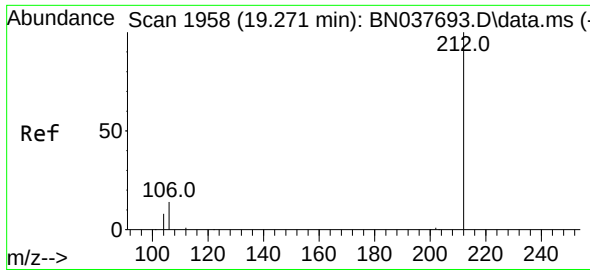
Tgt Ion:172 Resp: 11980
Ion Ratio Lower Upper
172 100
171 36.5 28.6 43.0
170 25.5 19.8 29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.236 min Scan# 1692
Delta R.T. 0.000 min
Lab File: BN037796.D
Acq: 19 Sep 2025 03:24

Tgt Ion:188 Resp: 12511
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.5 10.6 15.8#





#27

Fluoranthene-d10

Concen: 0.302 ng

RT: 19.262 min Scan# 1956

Delta R.T. -0.009 min

Lab File: BN037796.D

Acq: 19 Sep 2025 03:24

Instrument :

BNA_N

ClientSampleId :

PB169692BL

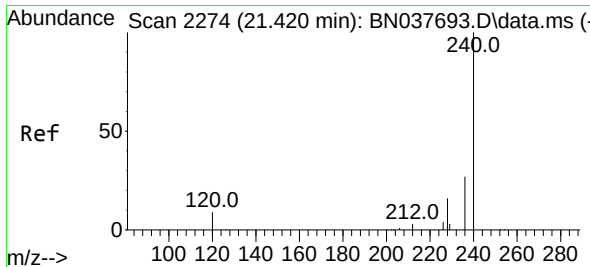
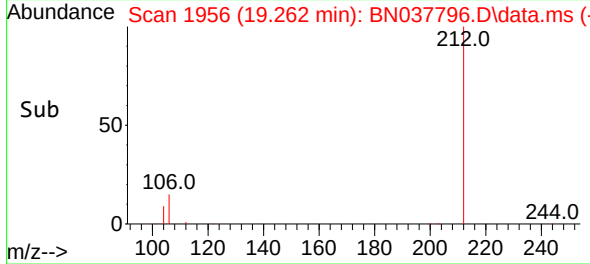
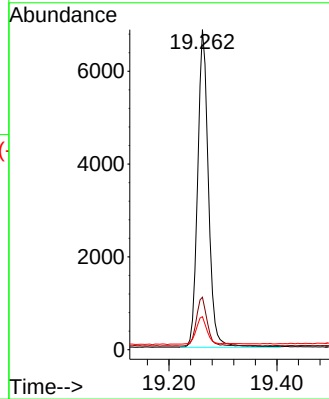
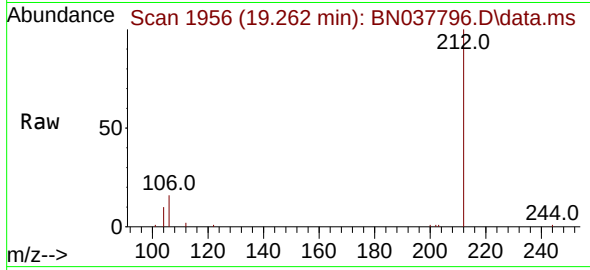
Tgt Ion:212 Resp: 9482

Ion Ratio Lower Upper

212 100

106 15.5 12.2 18.2

104 8.5 6.9 10.3



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.411 min Scan# 2273

Delta R.T. -0.009 min

Lab File: BN037796.D

Acq: 19 Sep 2025 03:24

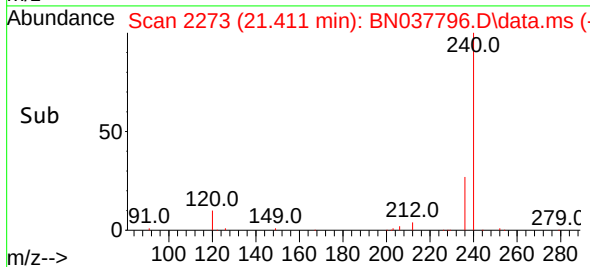
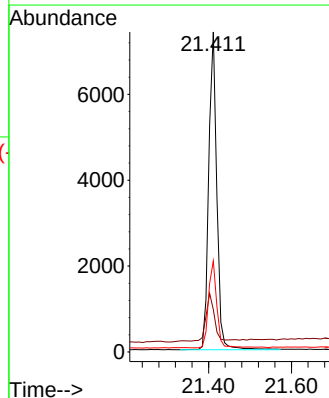
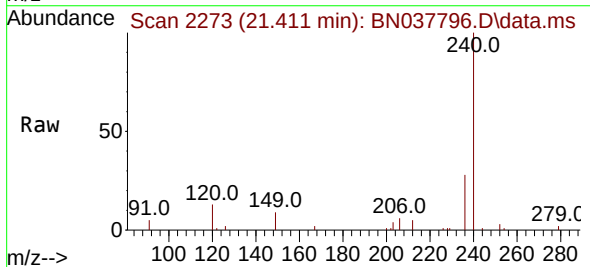
Tgt Ion:240 Resp: 10022

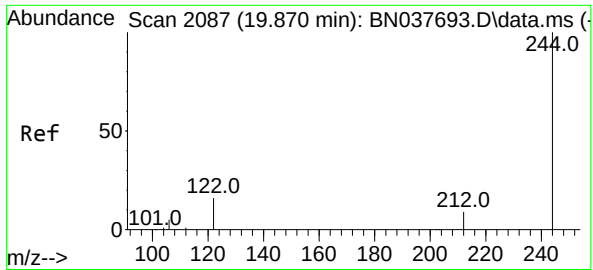
Ion Ratio Lower Upper

240 100

120 13.3 9.2 13.8

236 28.4 22.6 33.8

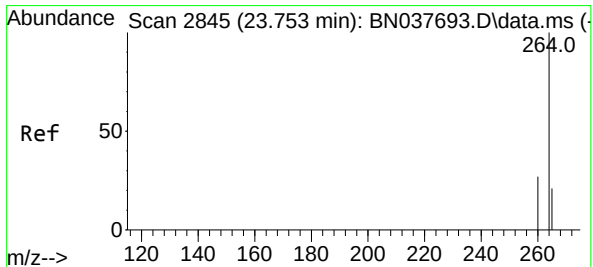
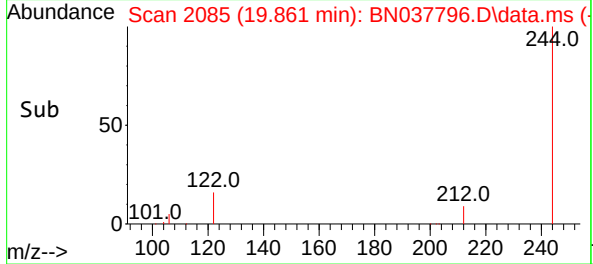
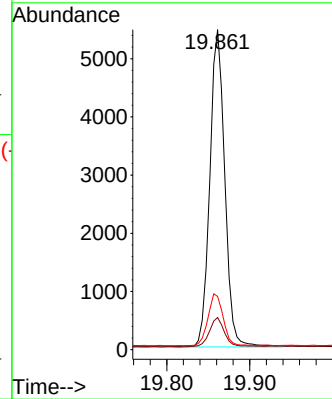
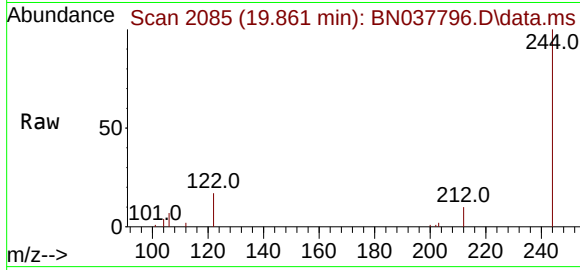




#31
Terphenyl-d14
Concen: 0.337 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037796.D
Acq: 19 Sep 2025 03:24

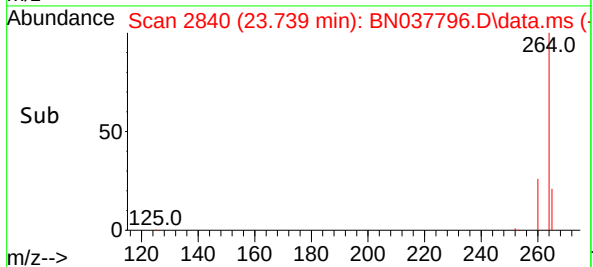
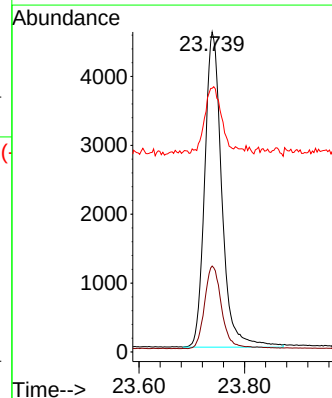
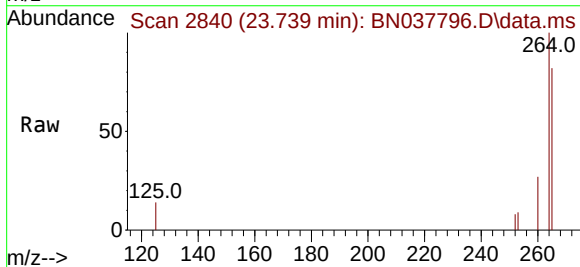
Instrument :
BNA_N
ClientSampleId :
PB169692BL

Tgt Ion:244 Resp: 6849
Ion Ratio Lower Upper
244 100
212 10.1 7.5 11.3
122 16.6 13.2 19.8



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.739 min Scan# 2840
Delta R.T. -0.015 min
Lab File: BN037796.D
Acq: 19 Sep 2025 03:24

Tgt Ion:264 Resp: 10278
Ion Ratio Lower Upper
264 100
260 26.8 21.8 32.8
265 82.4 39.4 59.2#



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:	PB169693BL	SDG No.:	Q3095
Lab Sample ID:	PB169693BL	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
BN037777.D	1	09/15/25 12:00	09/18/25 15:10	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		82%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		80%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		96%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		99%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		90%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6670	7.84				
1146-65-2	Naphthalene-d8	17000	10.637				
15067-26-2	Acenaphthene-d10	7050	14.484				
1517-22-2	Phenanthrene-d10	11700	17.236				
1719-03-5	Chrysene-d12	9220	21.411				
1520-96-3	Perylene-d12	9000	23.75				

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\BN091825\
Data File : BN037777.D
Acq On : 18 Sep 2025 15:10
Operator : RC/JU
Sample : PB169693BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169693BL

Quant Time: Sep 18 15:49:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	6667	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	17045	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	7049	0.400	ng	-0.01
19) Phenanthrene-d10	17.236	188	11652	0.400	ng	0.00
29) Chrysene-d12	21.411	240	9221	0.400	ng	# 0.00
35) Perylene-d12	23.750	264	9002	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	5270	0.344	ng	0.00
5) Phenol-d6	6.988	99	6284	0.317	ng	0.00
8) Nitrobenzene-d5	8.982	82	4777	0.383	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	7427	0.329	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	384	0.209	ng	0.00
15) 2-Fluorobiphenyl	13.116	172	11632	0.395	ng	0.00
27) Fluoranthene-d10	19.267	212	9319	0.319	ng	0.00
31) Terphenyl-d14	19.866	244	6747	0.361	ng	0.00

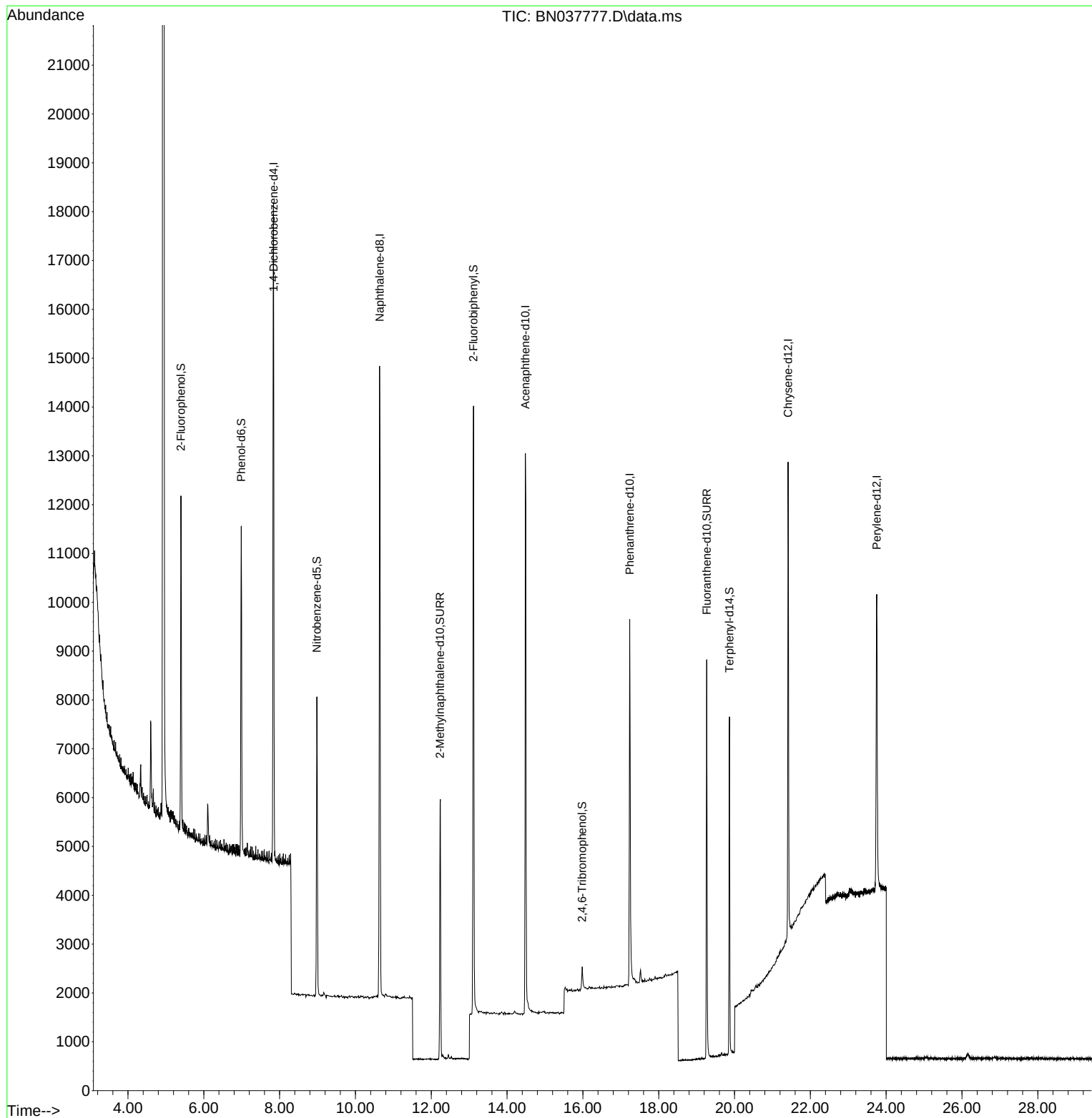
Target Compounds	Qvalue

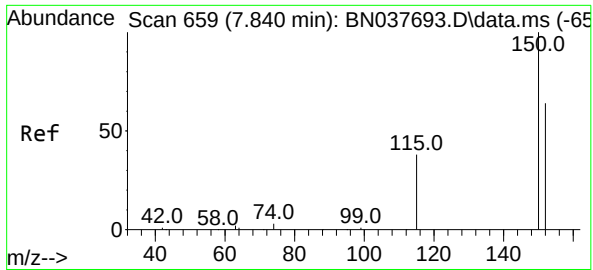
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037777.D
Acq On : 18 Sep 2025 15:10
Operator : RC/JU
Sample : PB169693BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169693BL

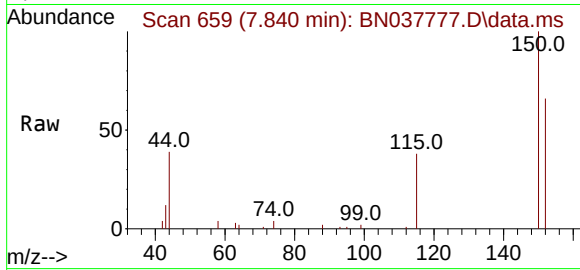
Quant Time: Sep 18 15:49:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



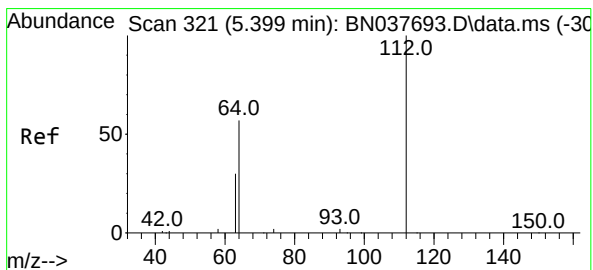
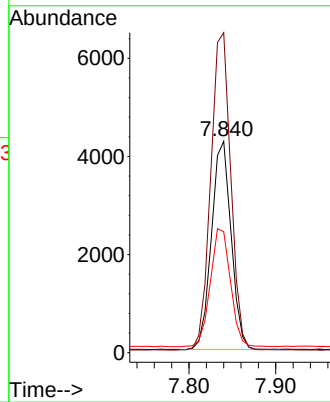


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 659
Delta R.T. 0.000 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Instrument :
BNA_N
ClientSampleId :
PB169693BL

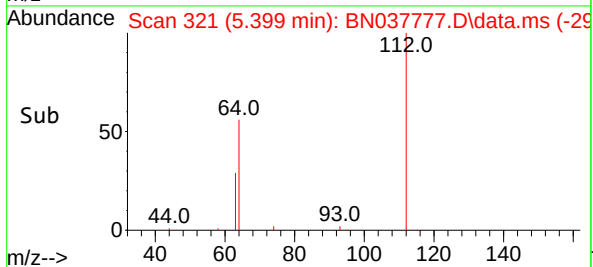
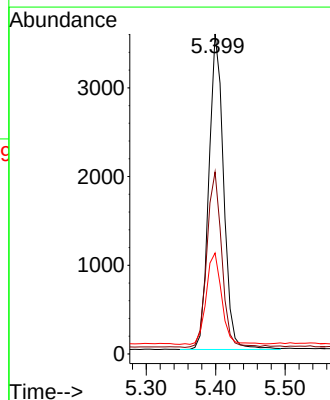
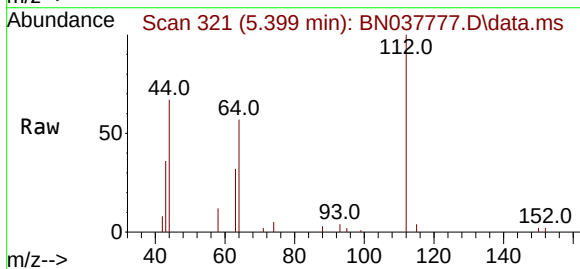


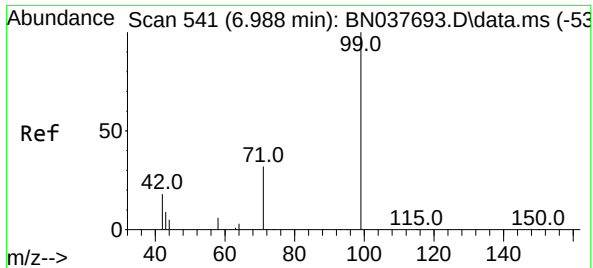
Tgt Ion:152 Resp: 6667
Ion Ratio Lower Upper
152 100
150 151.3 124.5 186.7
115 57.2 49.2 73.8



#4
2-Fluorophenol
Concen: 0.344 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Tgt Ion:112 Resp: 5270
Ion Ratio Lower Upper
112 100
64 55.6 44.9 67.3
63 30.1 24.7 37.1

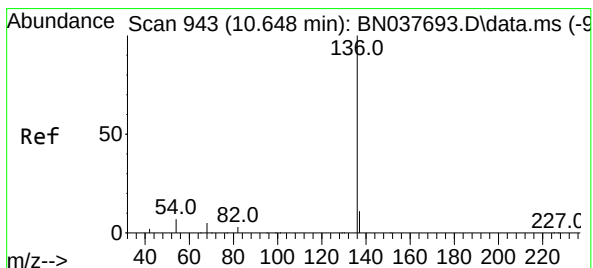
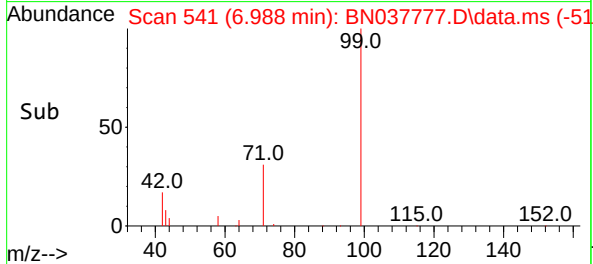
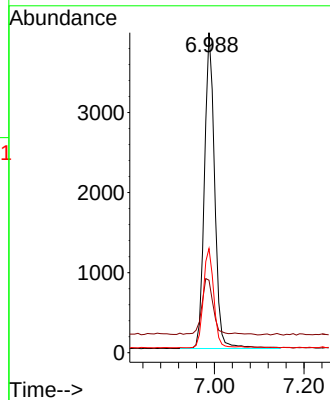
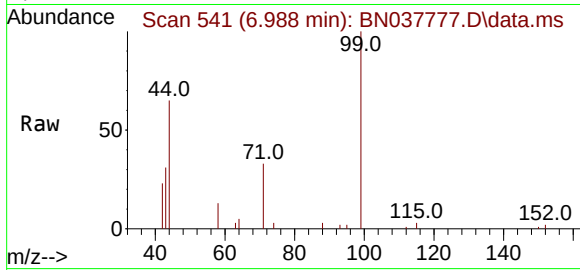




#5
Phenol-d6
Concen: 0.317 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

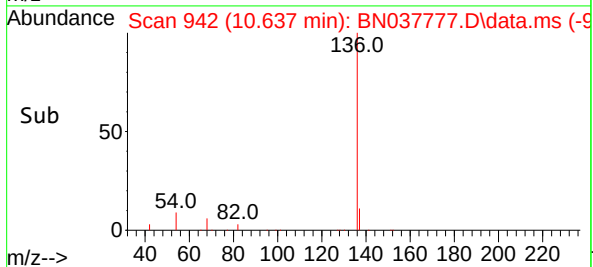
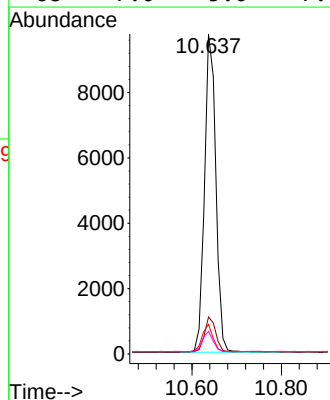
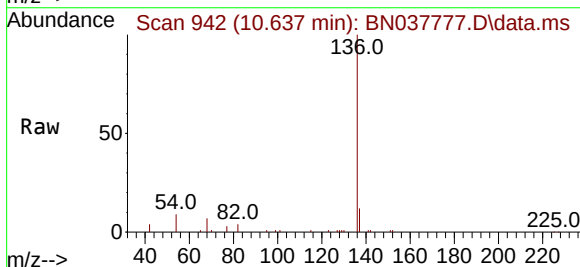
Instrument :
BNA_N
ClientSampleId :
PB169693BL

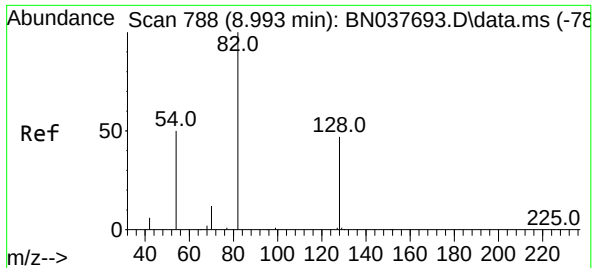
Tgt Ion: 99 Resp: 6284
Ion Ratio Lower Upper
99 100
42 19.0 16.6 24.8
71 31.6 26.7 40.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Tgt Ion: 136 Resp: 17045
Ion Ratio Lower Upper
136 100
137 11.5 9.1 13.7
54 9.3 6.3 9.5
68 7.0 5.0 7.4

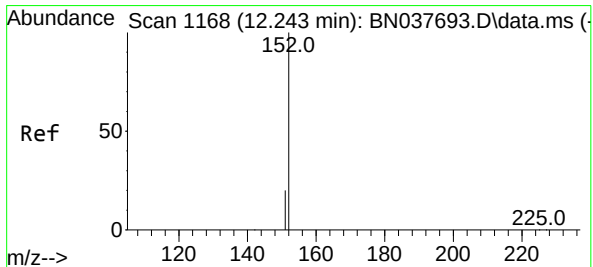
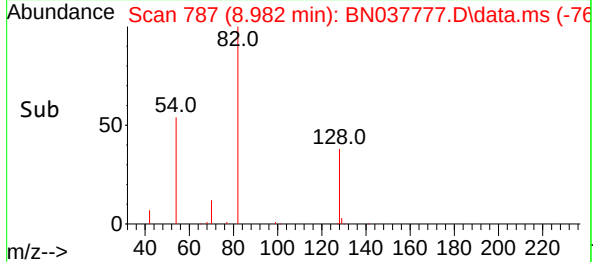
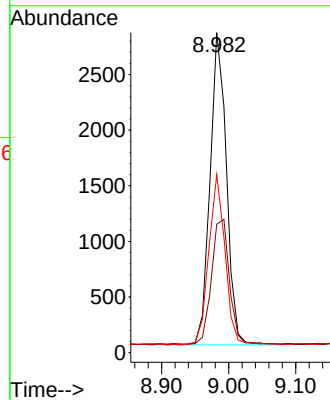
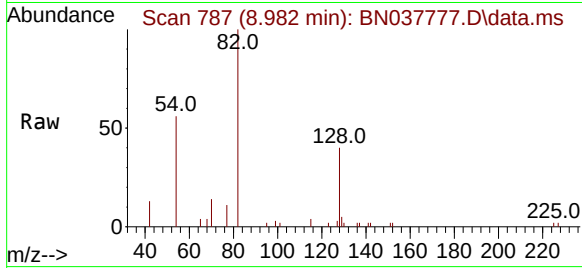




#8
Nitrobenzene-d5
Concen: 0.383 ng
RT: 8.982 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

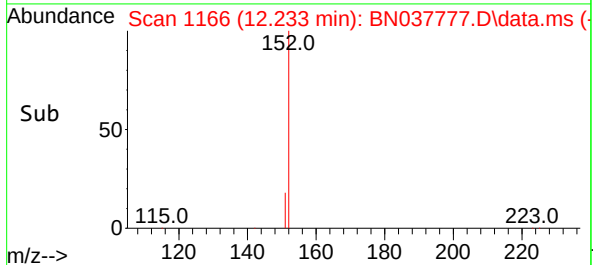
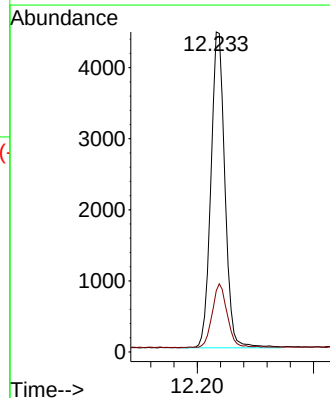
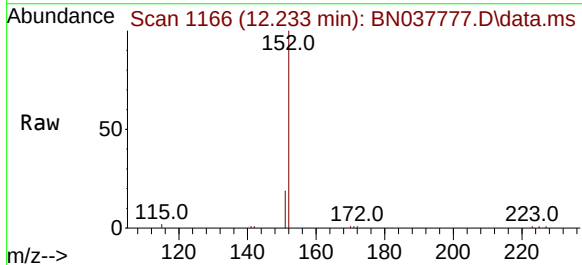
Instrument :
BNA_N
ClientSampleId :
PB169693BL

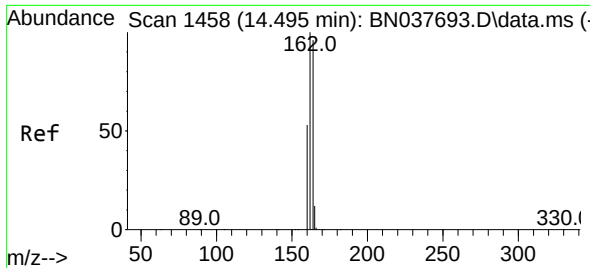
Tgt Ion:	82	Resp:	4777
Ion	Ratio	Lower	Upper
82	100		
128	40.2	38.3	57.5
54	55.6	41.4	62.2



#11
2-Methylnaphthalene-d10
Concen: 0.329 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Tgt Ion:	152	Resp:	7427
Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

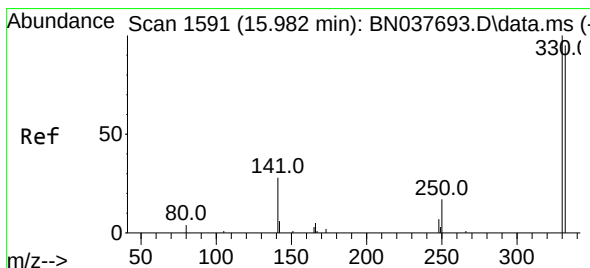
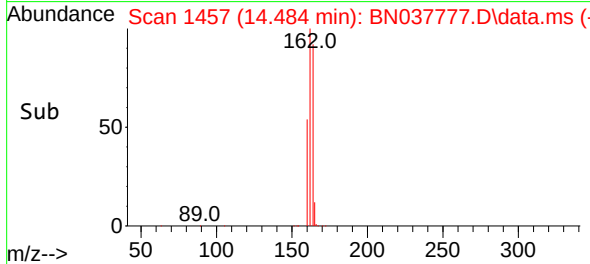
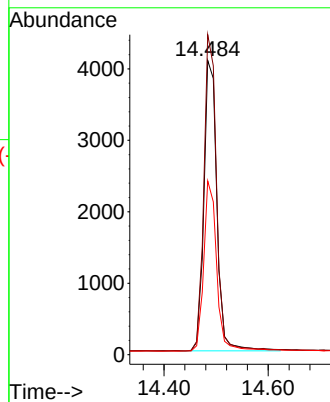
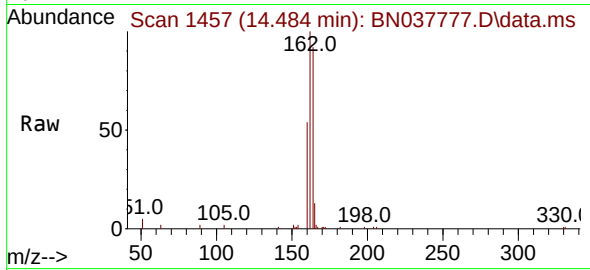




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

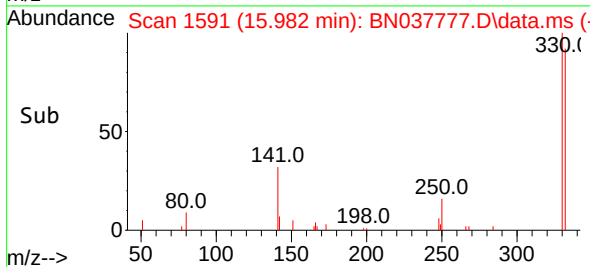
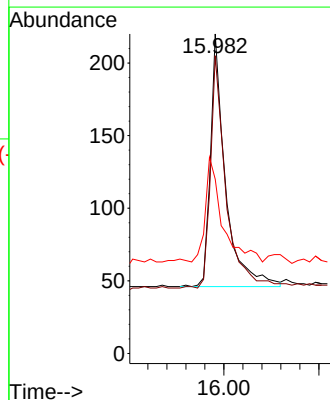
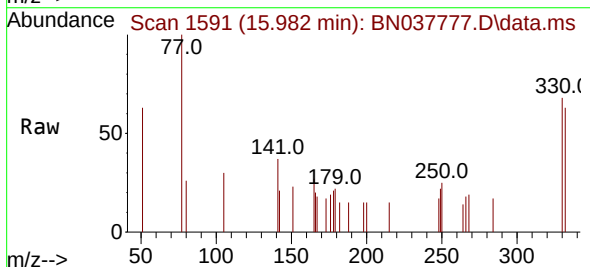
Instrument :
BNA_N
ClientSampleId :
PB169693BL

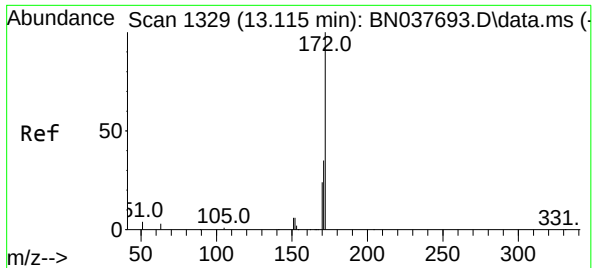
Tgt Ion:164 Resp: 7049
Ion Ratio Lower Upper
164 100
162 108.8 83.1 124.7
160 59.1 44.3 66.5



#14
2,4,6-Tribromophenol
Concen: 0.209 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Tgt Ion:330 Resp: 384
Ion Ratio Lower Upper
330 100
332 94.0 75.3 112.9
141 46.1 35.0 52.4

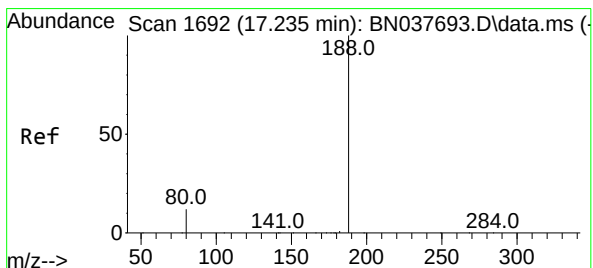
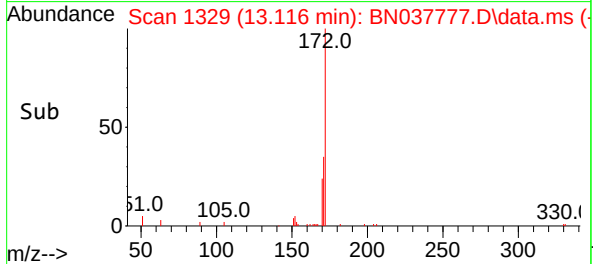
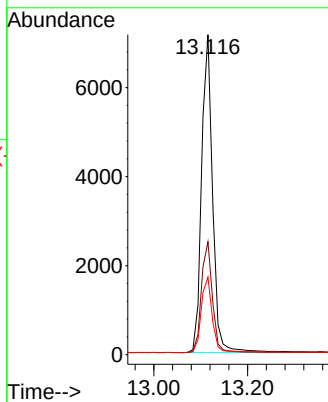
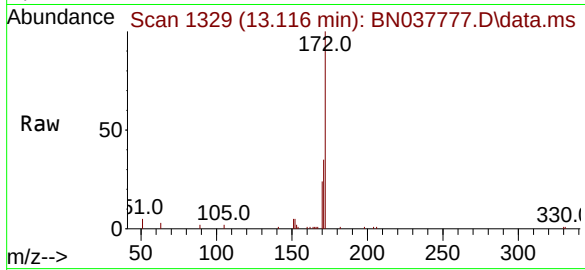




#15
2-Fluorobiphenyl
Concen: 0.395 ng
RT: 13.116 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

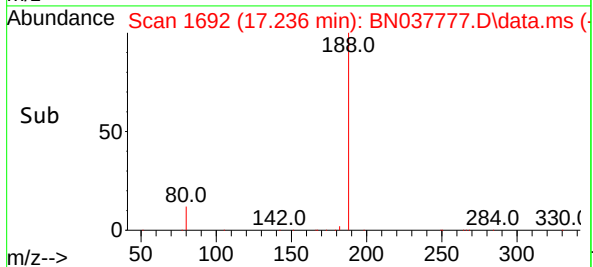
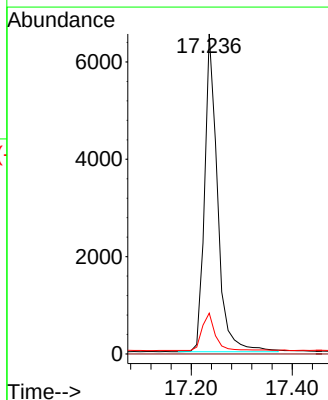
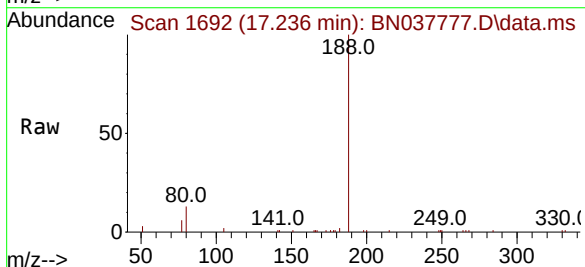
Instrument :
BNA_N
ClientSampleId :
PB169693BL

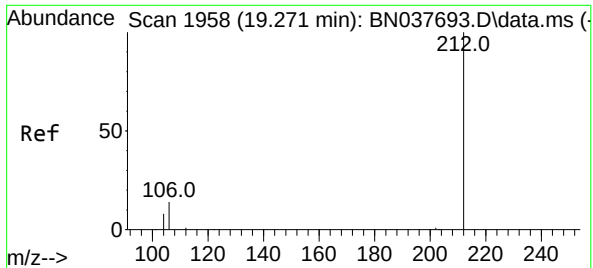
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.6	43.0
170	24.2	19.8	29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.236 min Scan# 1692
Delta R.T. 0.000 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.7	10.6	15.8





#27

Fluoranthene-d10

Concen: 0.319 ng

RT: 19.267 min Scan# 1957

Delta R.T. -0.005 min

Lab File: BN037777.D

Acq: 18 Sep 2025 15:10

Instrument :

BNA_N

ClientSampleId :

PB169693BL

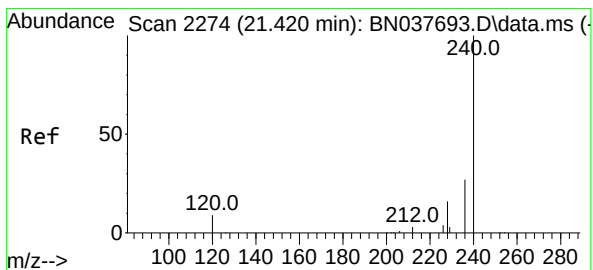
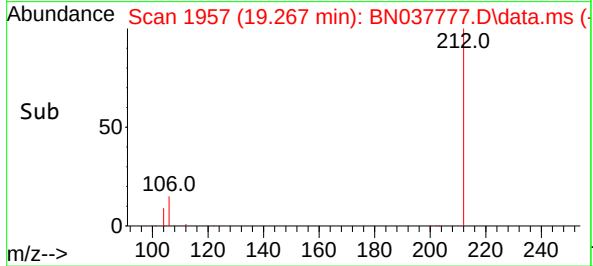
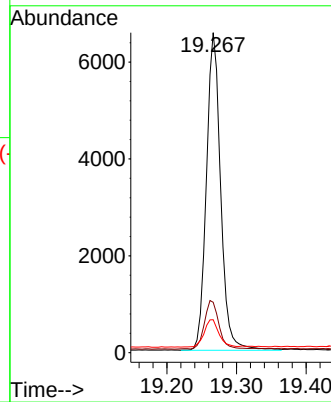
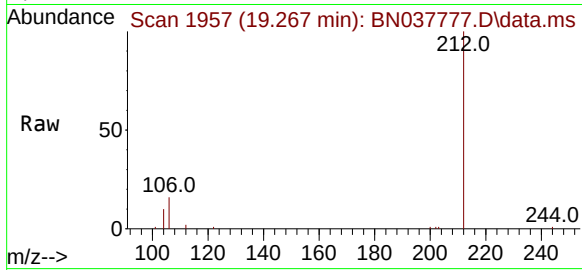
Tgt Ion:212 Resp: 9319

Ion Ratio Lower Upper

212 100

106 15.7 12.2 18.2

104 8.9 6.9 10.3



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.411 min Scan# 2273

Delta R.T. -0.009 min

Lab File: BN037777.D

Acq: 18 Sep 2025 15:10

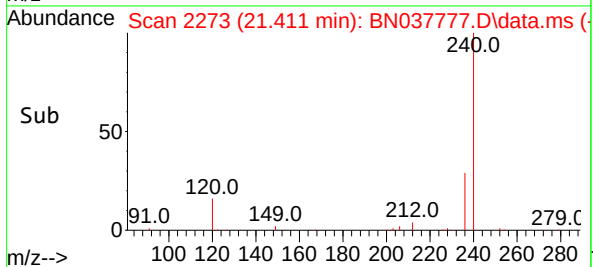
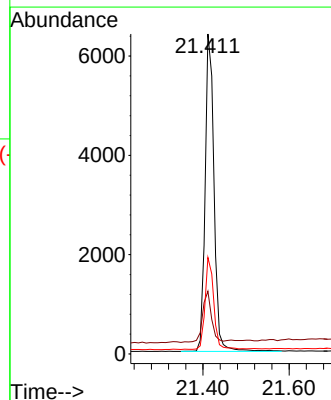
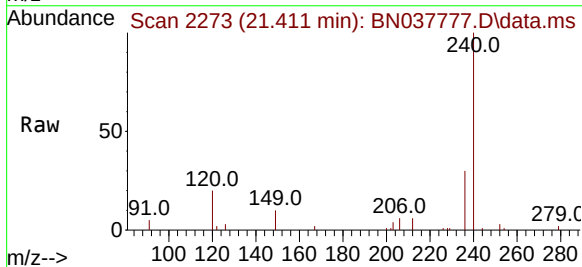
Tgt Ion:240 Resp: 9221

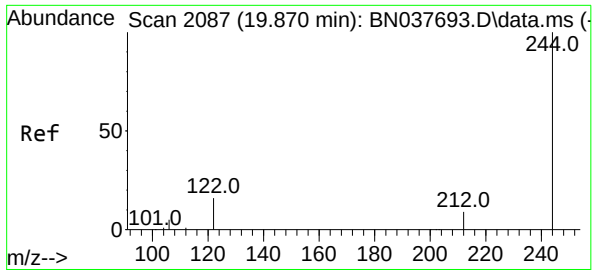
Ion Ratio Lower Upper

240 100

120 19.6 9.2 13.8

236 30.1 22.6 33.8

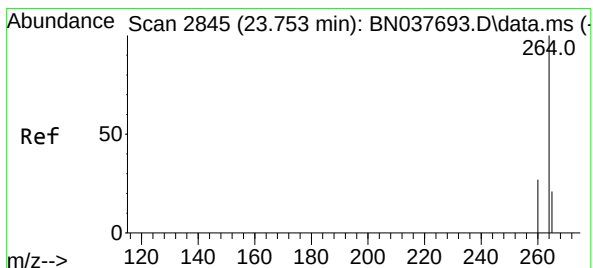
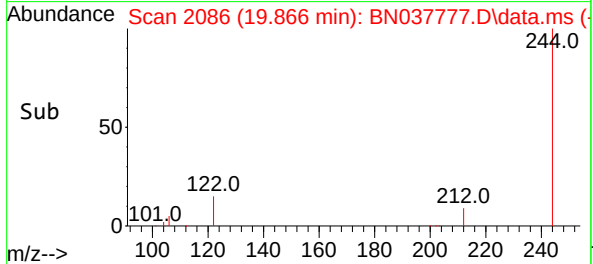
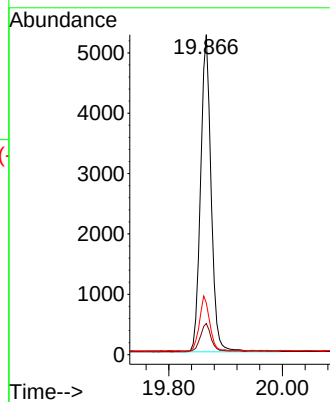
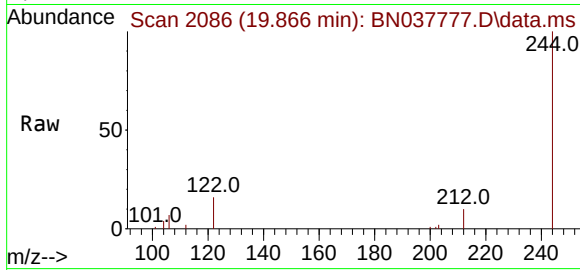




#31
Terphenyl-d14
Concen: 0.361 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

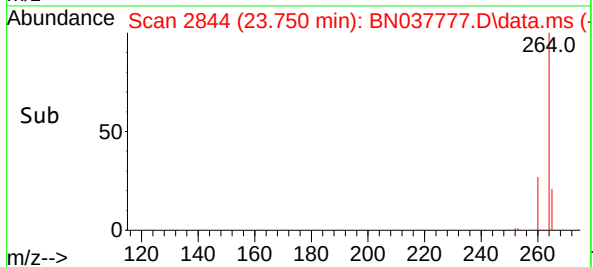
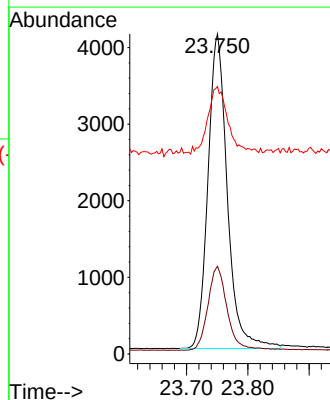
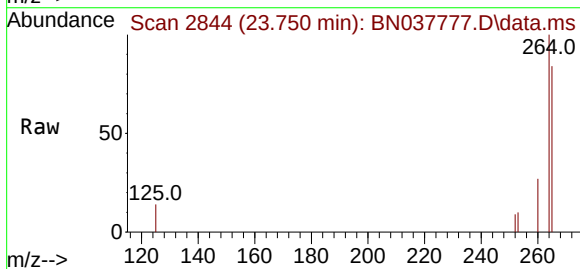
Instrument :
BNA_N
ClientSampleId :
PB169693BL

Tgt Ion:244 Resp: 6747
Ion Ratio Lower Upper
244 100
212 9.8 7.5 11.3
122 16.2 13.2 19.8



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.750 min Scan# 2844
Delta R.T. -0.003 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Tgt Ion:264 Resp: 9002
Ion Ratio Lower Upper
264 100
260 27.4 21.8 32.8
265 83.6 39.4 59.2#



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:	PB169692BS	SDG No.:	Q3095
Lab Sample ID:	PB169692BS	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
BN037791.D	1	09/15/25 10:15	09/18/25 23:40	PB169692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.30		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.30		30 - 150		75%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.31		58 - 132		78%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6980	7.833				
1146-65-2	Naphthalene-d8	18100	10.637				
15067-26-2	Acenaphthene-d10	7730	14.484				
1517-22-2	Phenanthrene-d10	12300	17.235				
1719-03-5	Chrysene-d12	10600	21.411				
1520-96-3	Perylene-d12	10800	23.739				

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\BN091825\
 Data File : BN037791.D
 Acq On : 18 Sep 2025 23:40
 Operator : RC/JU
 Sample : PB169692BS
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB169692BS

Quant Time: Sep 19 04:12:31 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

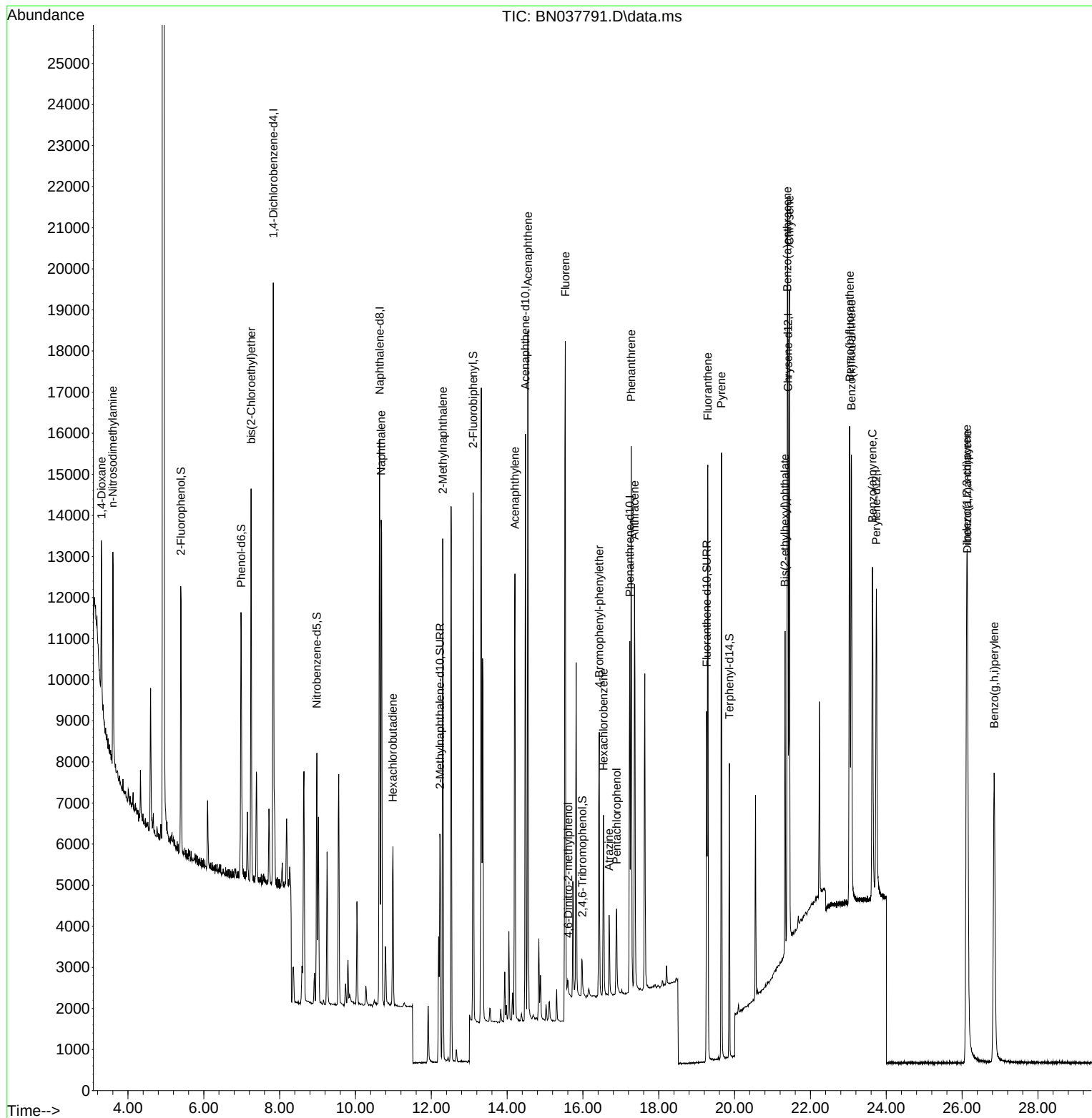
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	6983	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	18103	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	7729	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	12277	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	10644	0.400	ng	0.00
35) Perylene-d12	23.739	264	10808	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	5108	0.319	ng	0.00
5) Phenol-d6	6.988	99	5999	0.289	ng	0.00
8) Nitrobenzene-d5	8.982	82	4664	0.352	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	7264	0.303	ng	-0.02
14) 2,4,6-Tribromophenol	15.982	330	683	0.339	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	11595	0.359	ng	-0.01
27) Fluoranthene-d10	19.262	212	9242	0.300	ng	0.00
31) Terphenyl-d14	19.861	244	6760	0.313	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.304	88	2203	0.303	ng	# 78
3) n-Nitrosodimethylamine	3.601	42	3019	0.318	ng	# 87
6) bis(2-Chloroethyl)ether	7.248	93	6388	0.344	ng	100
9) Naphthalene	10.680	128	16538	0.334	ng	99
10) Hexachlorobutadiene	10.989	225	3164	0.353	ng	# 97
12) 2-Methylnaphthalene	12.304	142	9026	0.295	ng	99
16) Acenaphthylene	14.206	152	12644	0.357	ng	99
17) Acenaphthene	14.548	154	7865	0.328	ng	98
18) Fluorene	15.535	166	8960	0.309	ng	98
20) 4,6-Dinitro-2-methylph...	15.609	198	325	0.286	ng	# 83
21) 4-Bromophenyl-phenylether	16.429	248	2787	0.348	ng	# 93
22) Hexachlorobenzene	16.540	284	3452	0.375	ng	97
23) Atrazine	16.689	200	1725	0.339	ng	# 94
24) Pentachlorophenol	16.888	266	1262	0.472	ng	98
25) Phenanthrene	17.273	178	13331	0.345	ng	100
26) Anthracene	17.360	178	11823	0.345	ng	99
28) Fluoranthene	19.294	202	13219	0.312	ng	99
30) Pyrene	19.652	202	13196	0.317	ng	100
32) Benzo(a)anthracene	21.393	228	13045	0.351	ng	99
33) Chrysene	21.447	228	13977	0.351	ng	98
34) Bis(2-ethylhexyl)phtha...	21.331	149	3840	0.349	ng	99
36) Indeno(1,2,3-cd)pyrene	26.121	276	18272	0.402	ng	98
37) Benzo(b)fluoranthene	23.034	252	15074	0.354	ng	# 95
38) Benzo(k)fluoranthene	23.081	252	15430	0.356	ng	# 95
39) Benzo(a)pyrene	23.636	252	13066	0.383	ng	# 93
40) Dibenzo(a,h)anthracene	26.142	278	14014	0.387	ng	98
41) Benzo(g,h,i)perylene	26.846	276	15625	0.384	ng	98

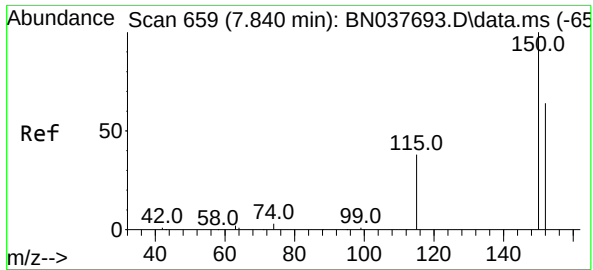
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Data File : BN037791.D
Acq On : 18 Sep 2025 23:40
Operator : RC/JU
Sample : PB169692BS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169692BS

Quant Time: Sep 19 04:12:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

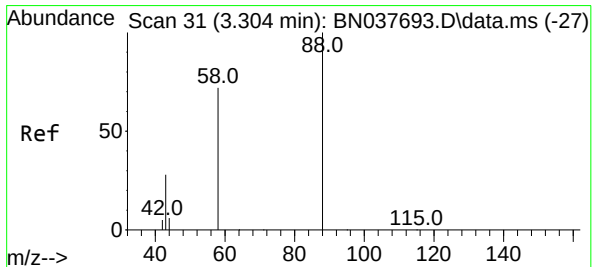
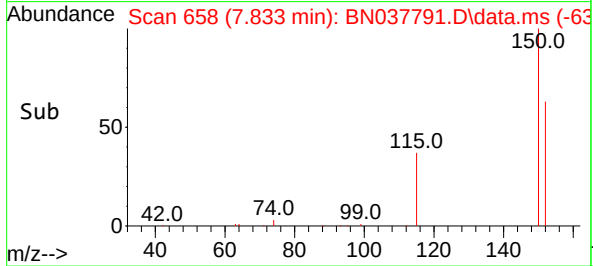
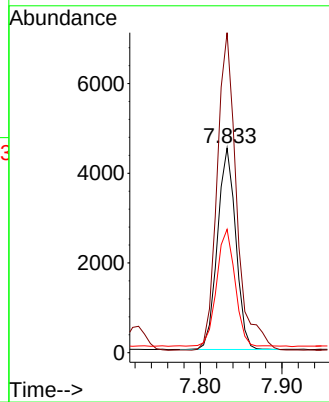
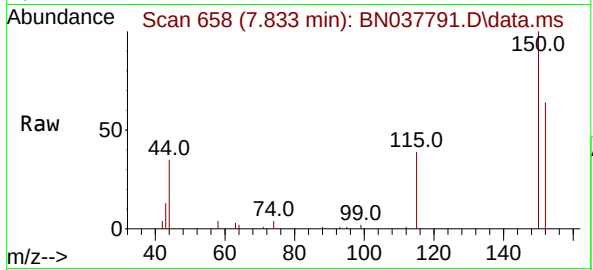




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

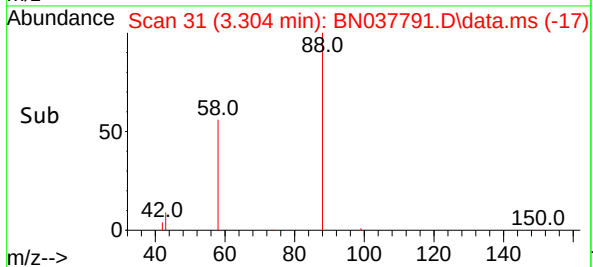
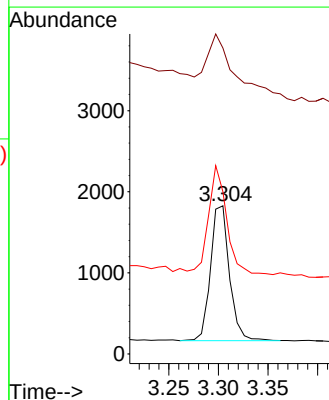
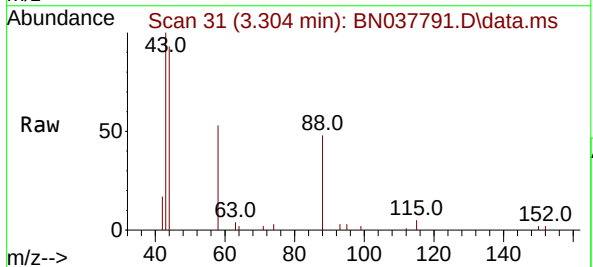
Instrument :
BNA_N
ClientSampleId :
PB169692BS

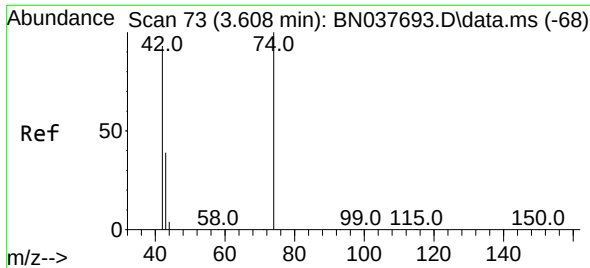
Tgt Ion:152 Resp: 6983
Ion Ratio Lower Upper
152 100
150 156.4 124.5 186.7
115 60.3 49.2 73.8



#2
1,4-Dioxane
Concen: 0.303 ng
RT: 3.304 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion: 88 Resp: 2203
Ion Ratio Lower Upper
88 100
43 73.6 26.8 40.2#
58 78.3 61.9 92.9

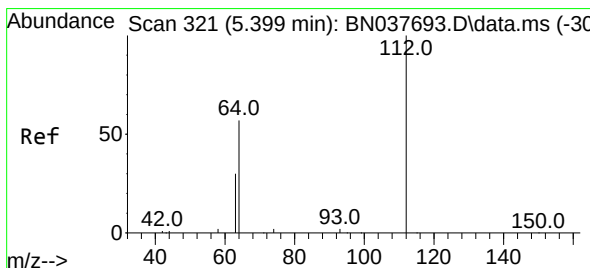
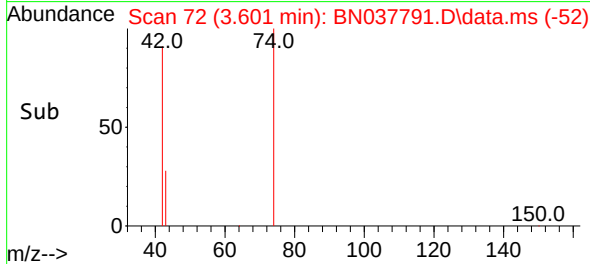
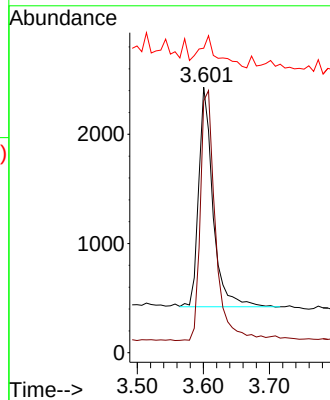
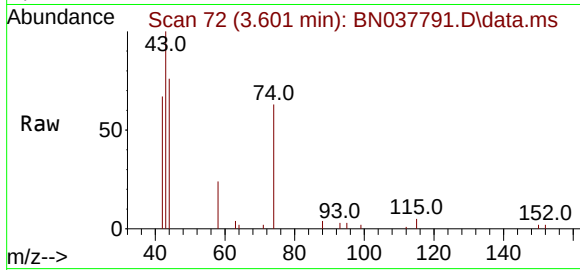




#3
n-Nitrosodimethylamine
Concen: 0.318 ng
RT: 3.601 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

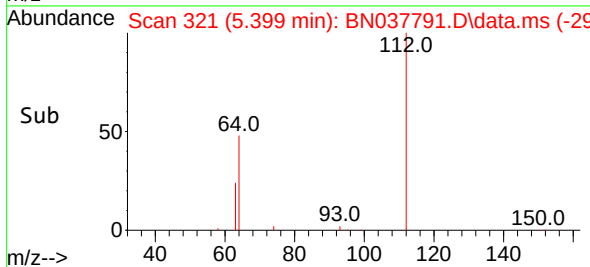
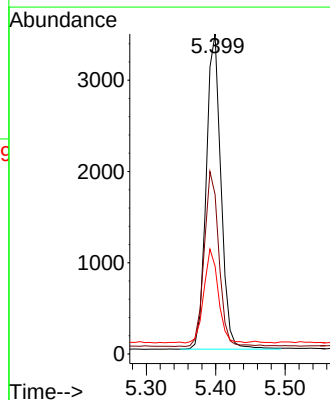
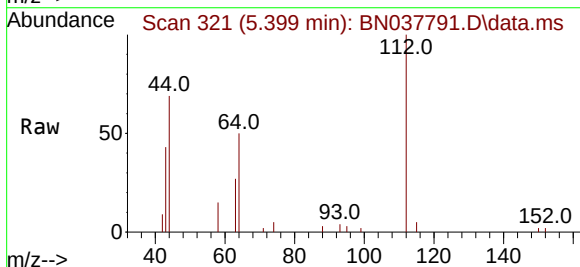
Instrument :
BNA_N
ClientSampleId :
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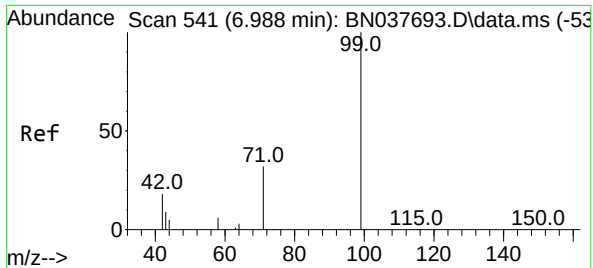
Tgt Ion: 42 Resp: 3019
Ion Ratio Lower Upper
42 100
74 120.6 86.0 129.0
44 16.7 8.4 12.6#



#4
2-Fluorophenol
Concen: 0.319 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion: 112 Resp: 5108
Ion Ratio Lower Upper
112 100
64 55.2 44.9 67.3
63 29.0 24.7 37.1

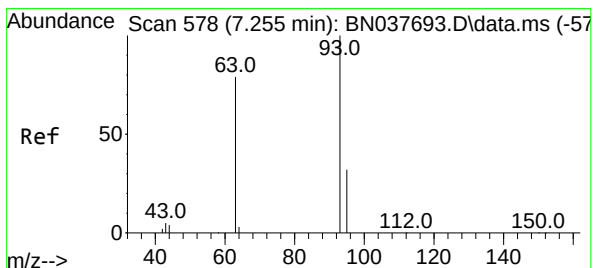
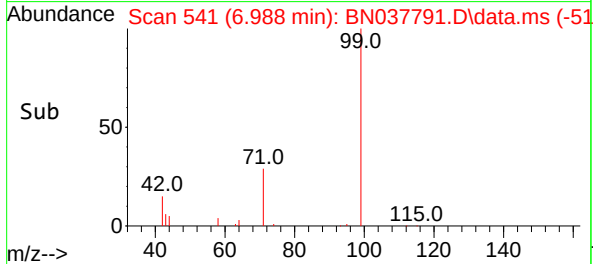
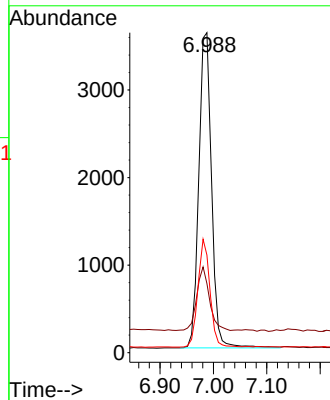
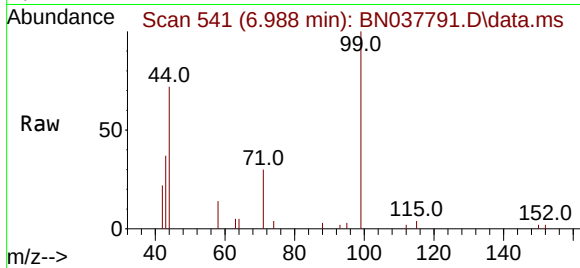




#5
Phenol-d6
Concen: 0.289 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

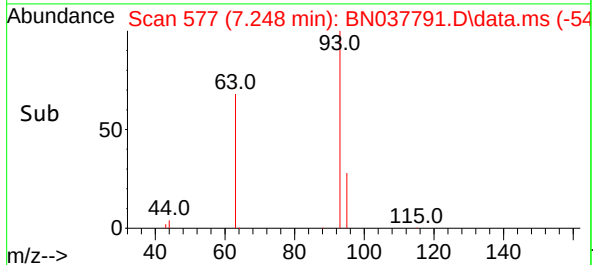
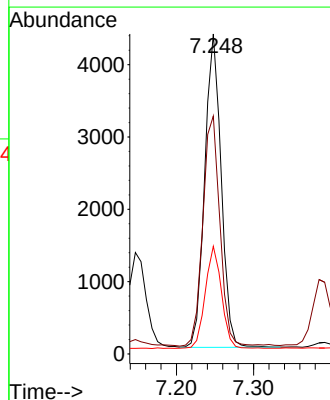
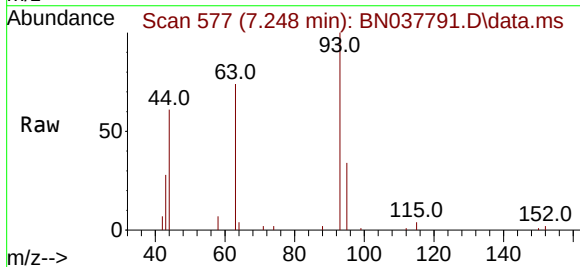
Instrument :
BNA_N
ClientSampleId :
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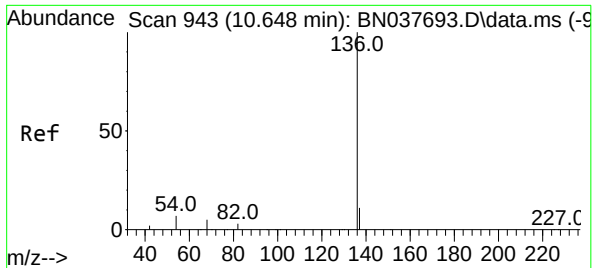
Tgt Ion	Ratio	Lower	Upper
99	100		
42	19.8	16.6	24.8
71	32.1	26.7	40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.344 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion	Ratio	Lower	Upper
93	100		
63	76.1	60.6	90.8
95	32.3	26.0	39.0

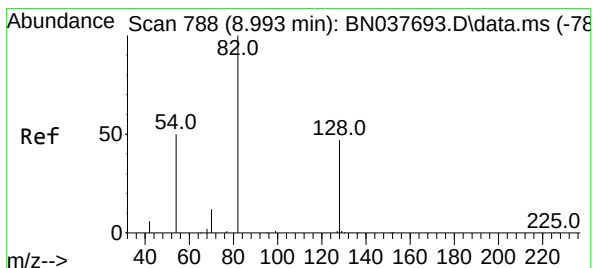
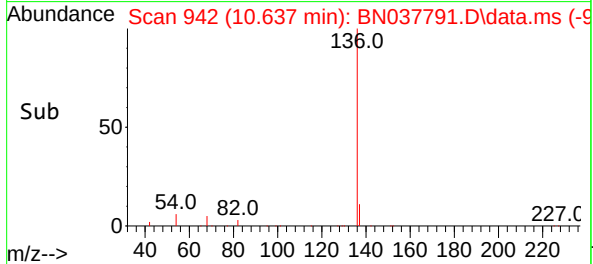
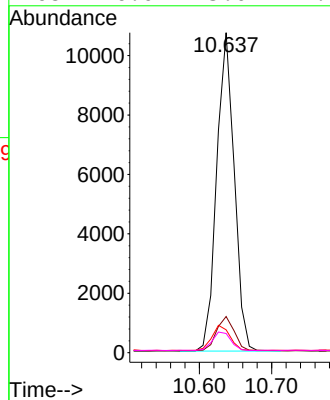
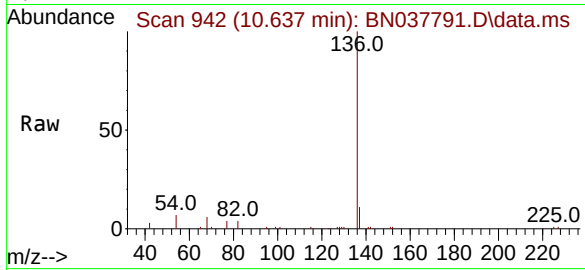




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

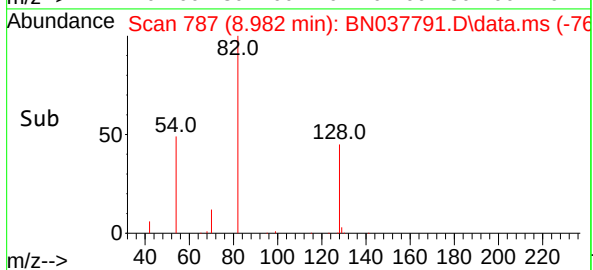
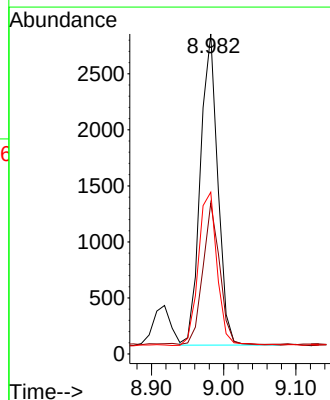
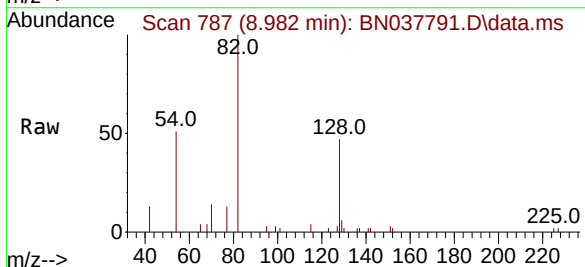
Instrument :
BNA_N
ClientSampleId :
PB169692BS

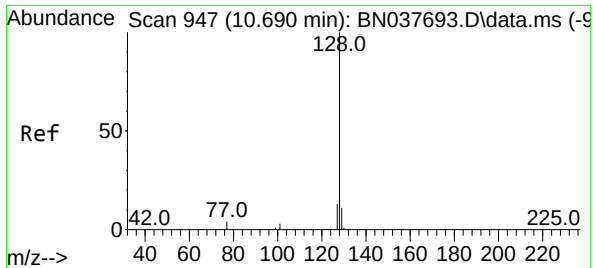
Tgt Ion:	136	Resp:	18103
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	7.2	6.3	9.5
68	6.0	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.352 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:	82	Resp:	4664
Ion	Ratio	Lower	Upper
82	100		
128	47.1	38.3	57.5
54	50.5	41.4	62.2

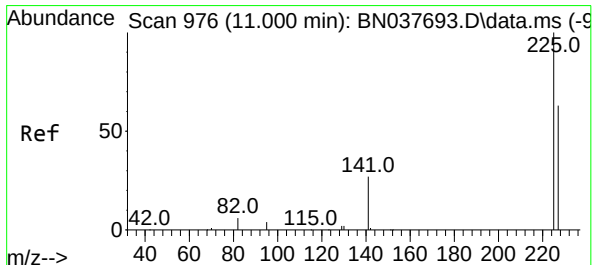
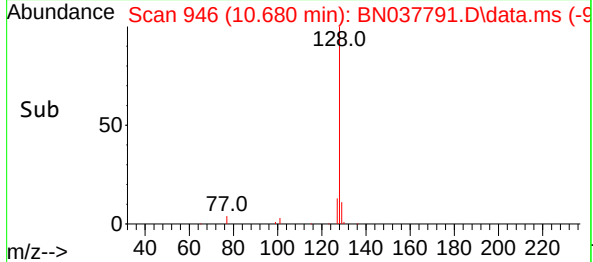
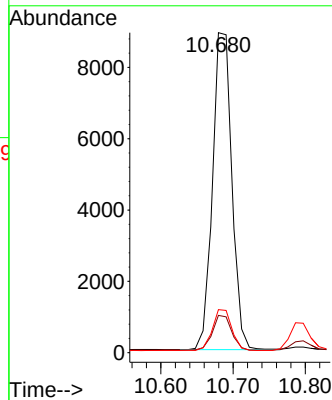
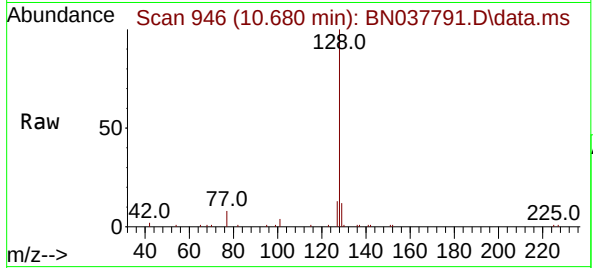




#9
Naphthalene
Concen: 0.334 ng
RT: 10.680 min Scan# 946
Delta R.T. -0.011 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

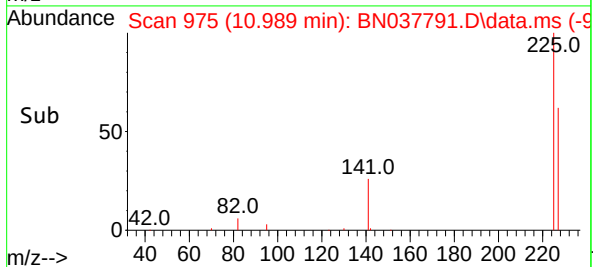
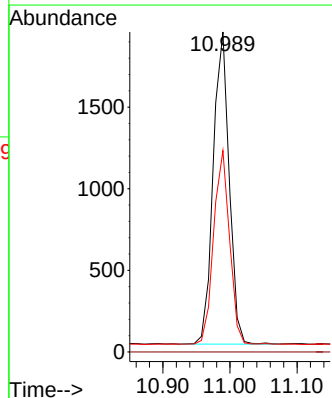
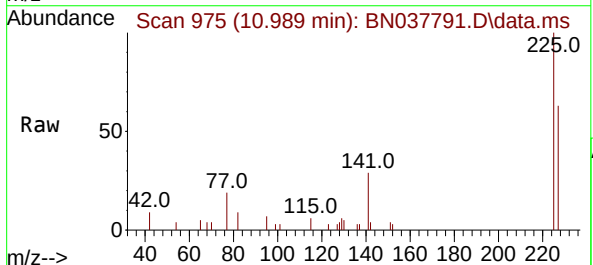
Instrument :
BNA_N
ClientSampleId :
PB169692BS

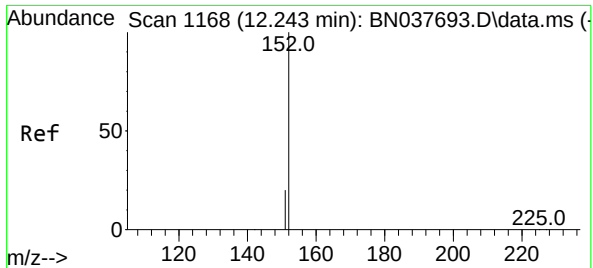
Tgt Ion:128 Resp: 16538
Ion Ratio Lower Upper
128 100
129 11.6 9.1 13.7
127 13.4 10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.353 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:225 Resp: 3164
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 61.4 50.9 76.3

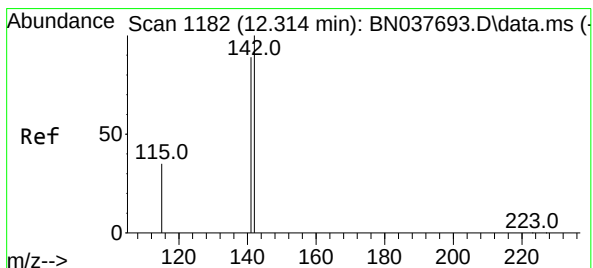
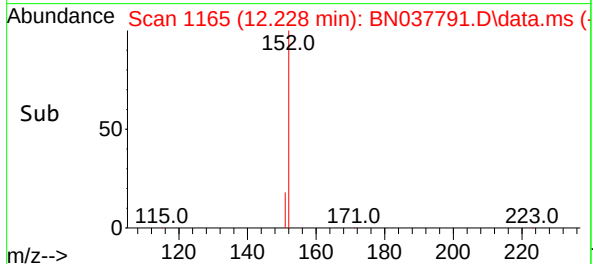
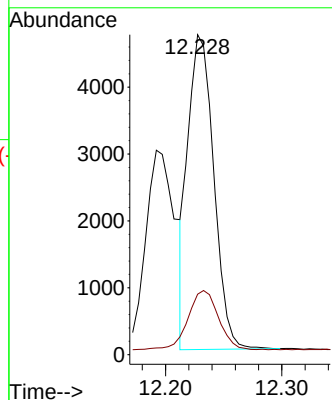
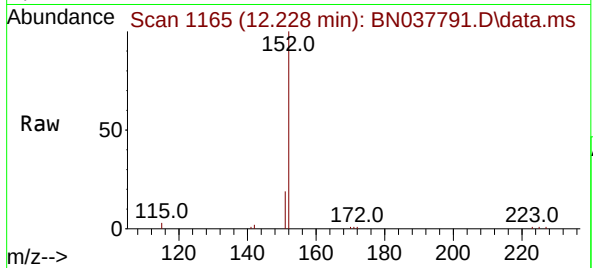




#11
2-Methylnaphthalene-d10
Concen: 0.303 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

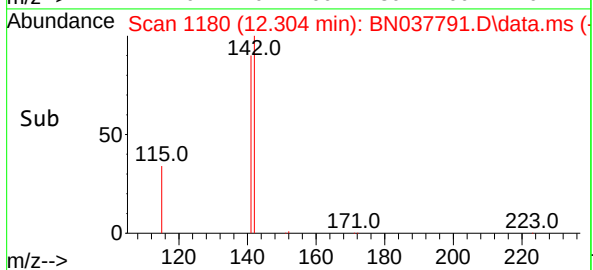
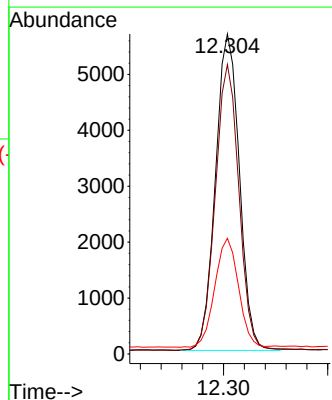
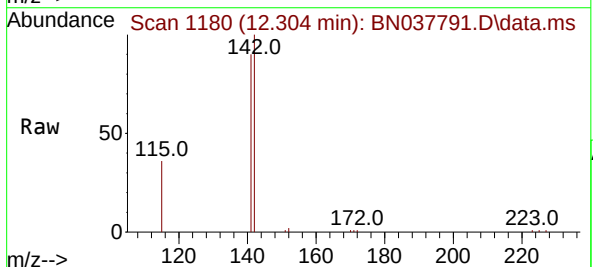
Instrument :
BNA_N
ClientSampleId :
PB169692BS

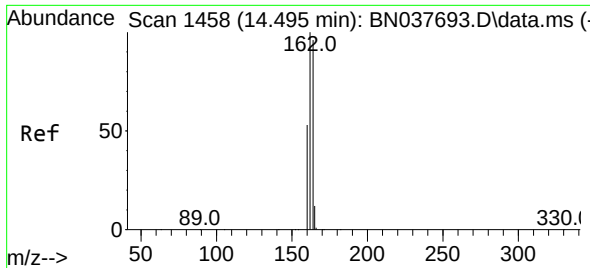
Tgt Ion:152 Resp: 7264
Ion Ratio Lower Upper
152 100
151 22.7 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.295 ng
RT: 12.304 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:142 Resp: 9026
Ion Ratio Lower Upper
142 100
141 90.4 71.6 107.4
115 36.1 28.6 43.0

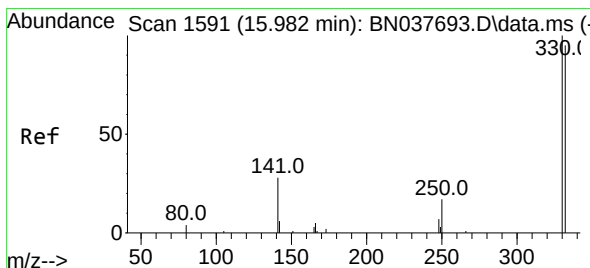
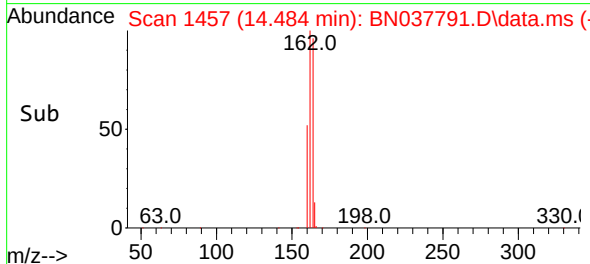
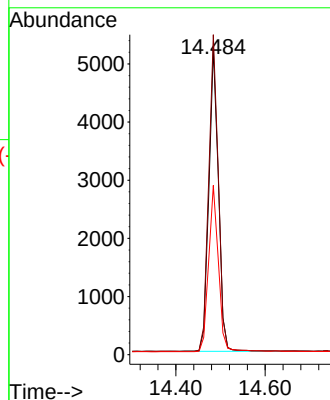
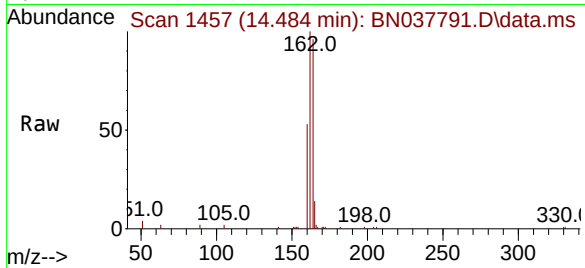




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

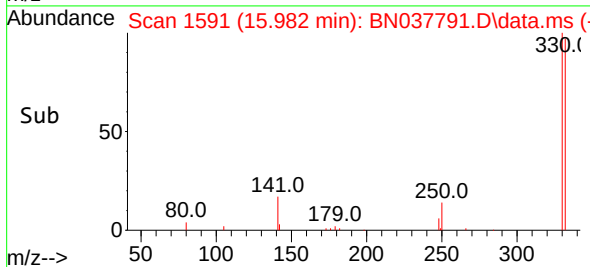
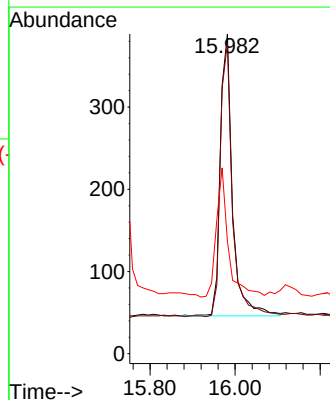
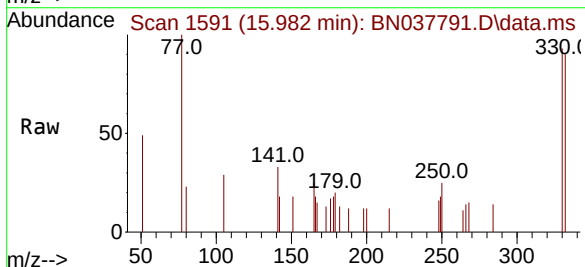
Instrument :
BNA_N
ClientSampleId :
PB169692BS

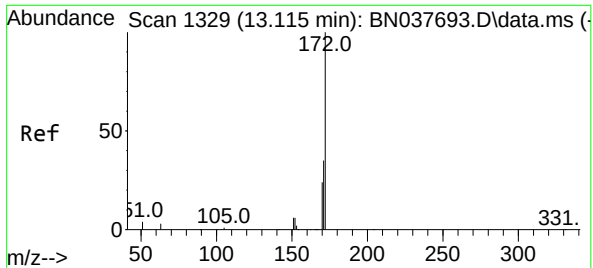
Tgt Ion:164 Resp: 7729
Ion Ratio Lower Upper
164 100
162 104.5 83.1 124.7
160 55.3 44.3 66.5



#14
2,4,6-Tribromophenol
Concen: 0.339 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:330 Resp: 683
Ion Ratio Lower Upper
330 100
332 96.8 75.3 112.9
141 44.7 35.0 52.4

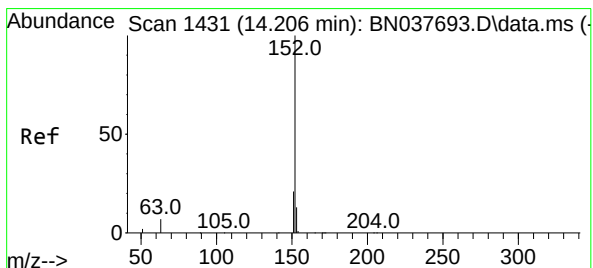
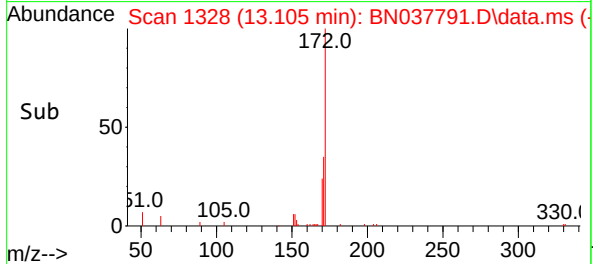
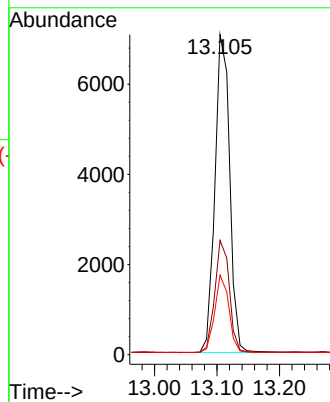
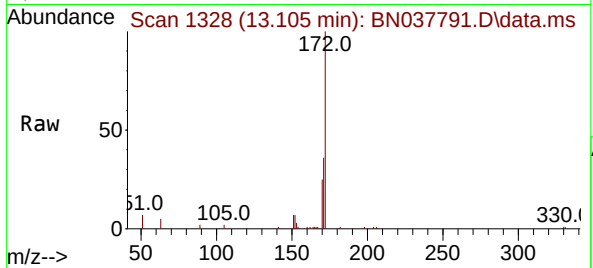




#15
2-Fluorobiphenyl
Concen: 0.359 ng
RT: 13.105 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

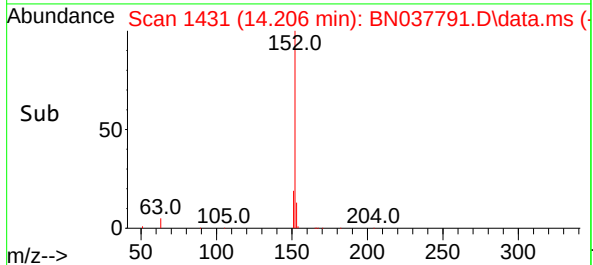
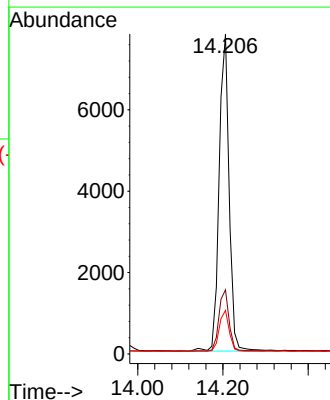
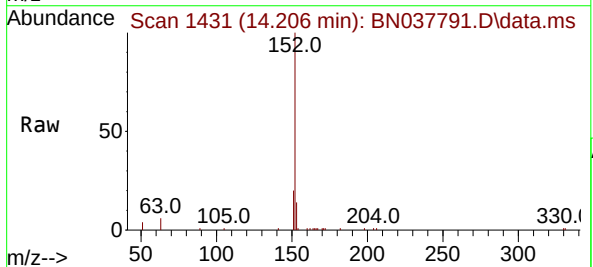
Instrument :
BNA_N
ClientSampleId :
PB169692BS

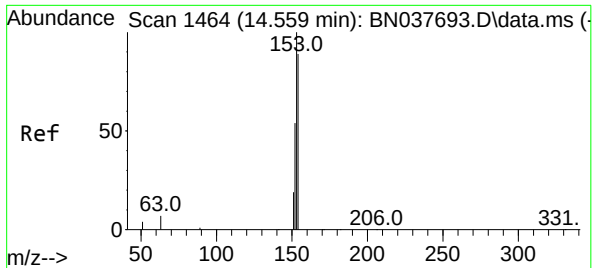
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.6	43.0
170	24.8	19.8	29.8



#16
Acenaphthylene
Concen: 0.357 ng
RT: 14.206 min Scan# 1431
Delta R.T. 0.000 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.2	24.2
153	13.2	10.4	15.6

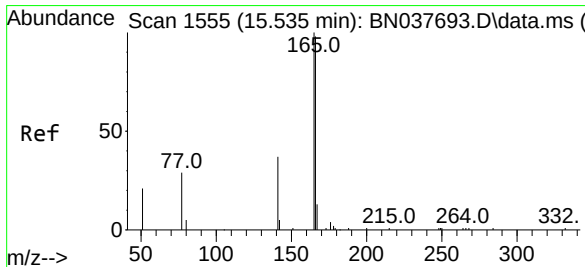
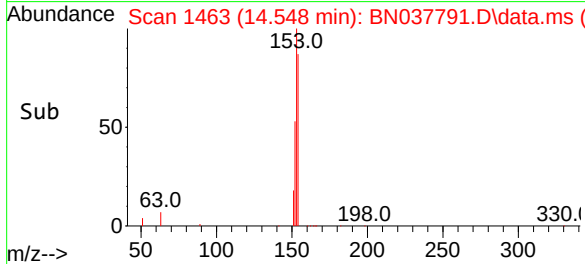
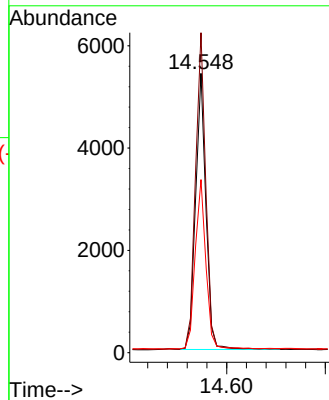
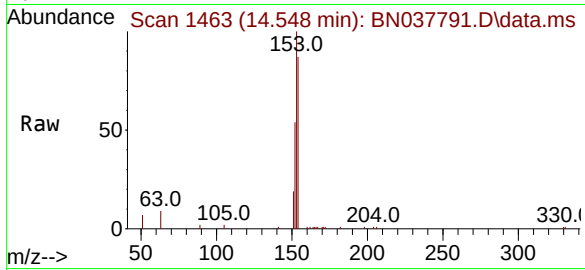




#17
Acenaphthene
Concen: 0.328 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

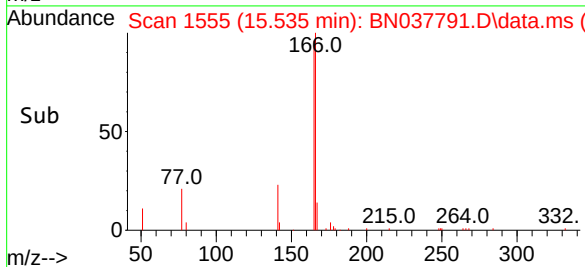
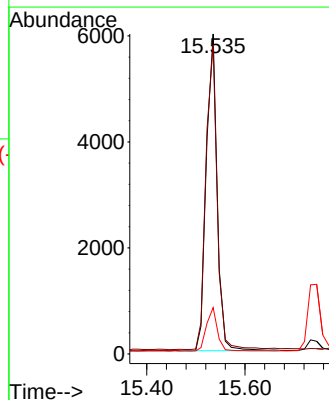
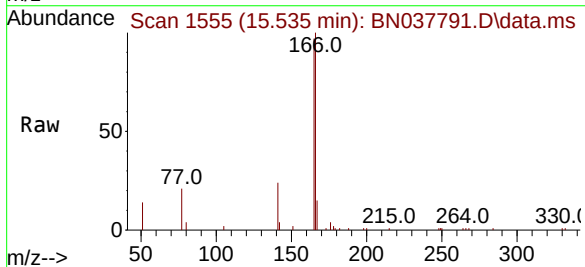
Instrument :
BNA_N
ClientSampleId :
PB169692BS

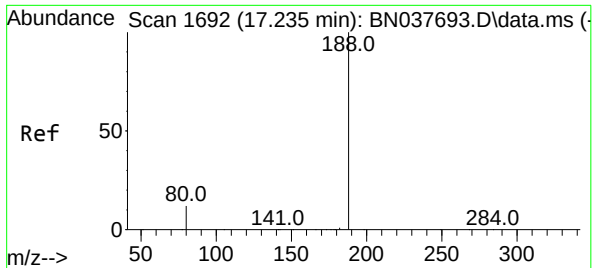
Tgt Ion:154 Resp: 7865
Ion Ratio Lower Upper
154 100
153 114.6 89.8 134.8
152 63.6 50.2 75.2



#18
Fluorene
Concen: 0.309 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.000 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:166 Resp: 8960
Ion Ratio Lower Upper
166 100
165 97.8 79.6 119.4
167 13.5 10.6 16.0

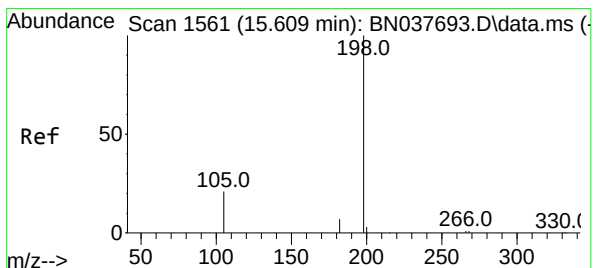
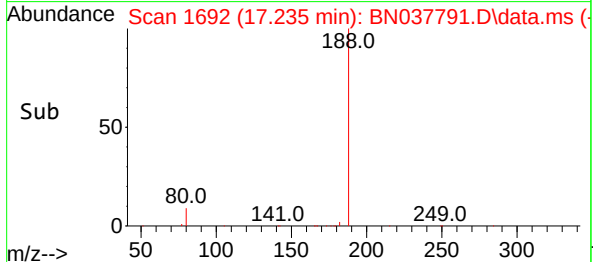
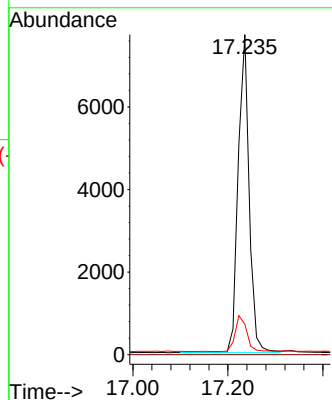
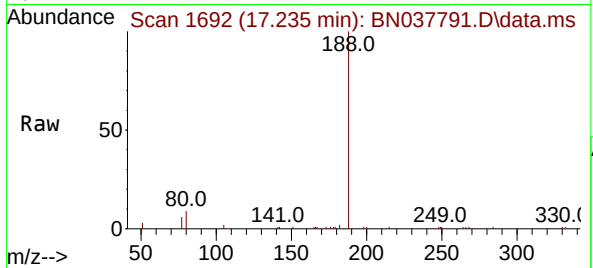




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. 0.000 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

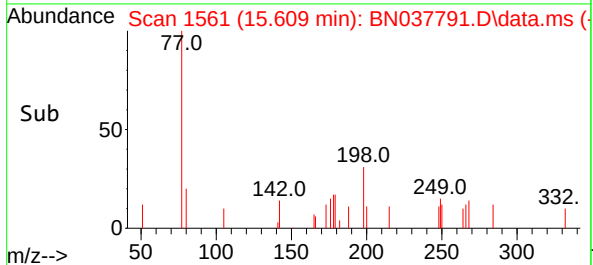
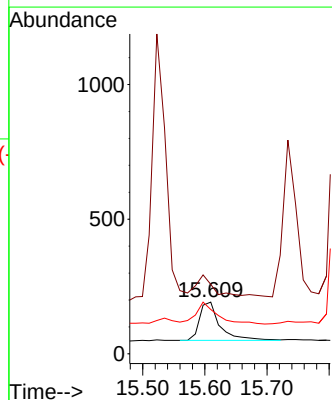
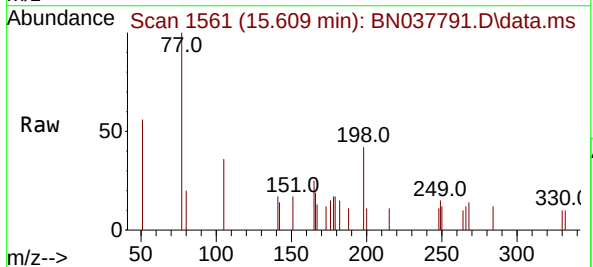
Instrument :
BNA_N
ClientSampleId :
PB169692BS

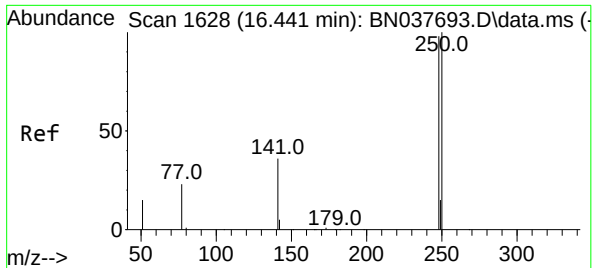
Tgt Ion:188 Resp: 12277
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.5 10.6 15.8#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.286 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:198 Resp: 325
Ion Ratio Lower Upper
198 100
51 134.4 95.1 142.7
105 85.9 53.8 80.6#

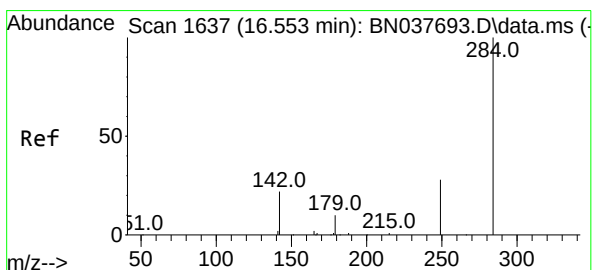
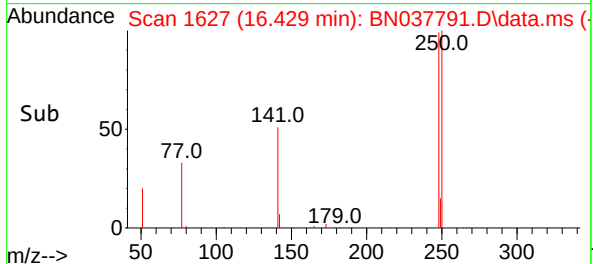
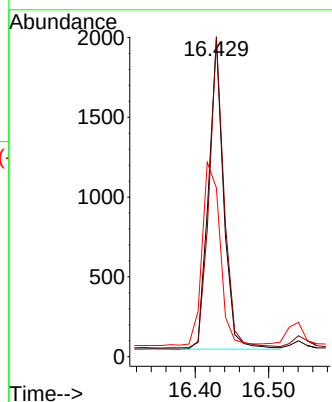
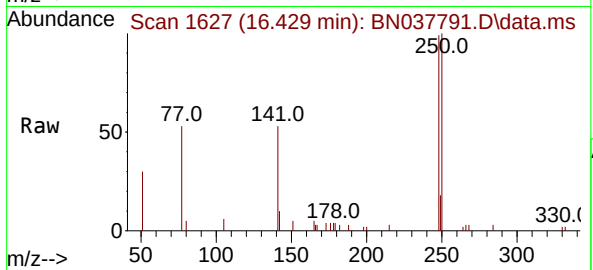




#21
4-Bromophenyl-phenylether
Concen: 0.348 ng
RT: 16.429 min Scan# 1635
Delta R.T. -0.012 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

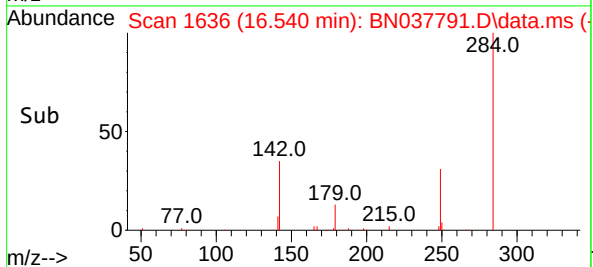
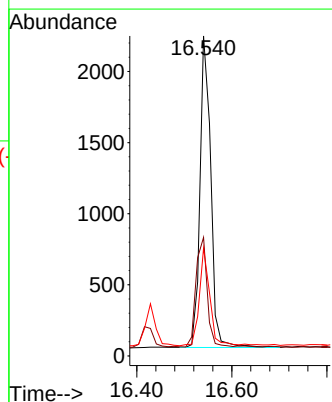
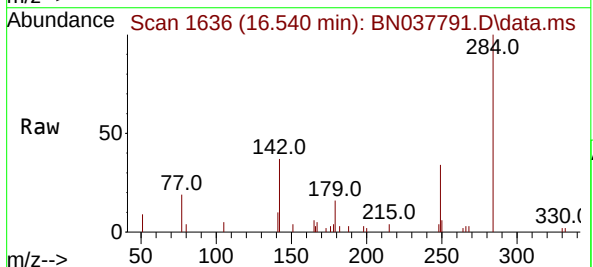
Instrument :
BNA_N
ClientSampleId :
PB169692BS

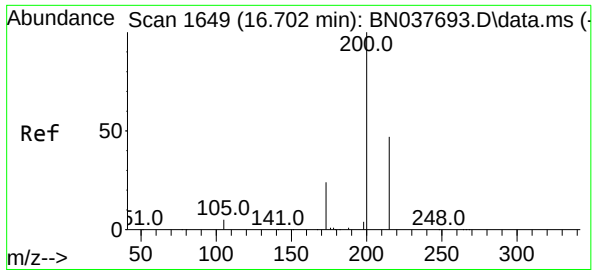
Tgt Ion:248 Resp: 2787
Ion Ratio Lower Upper
248 100
250 100.9 81.5 122.3
141 53.2 30.8 46.2#



#22
Hexachlorobenzene
Concen: 0.375 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:284 Resp: 3452
Ion Ratio Lower Upper
284 100
142 36.3 30.9 46.3
249 30.0 24.8 37.2

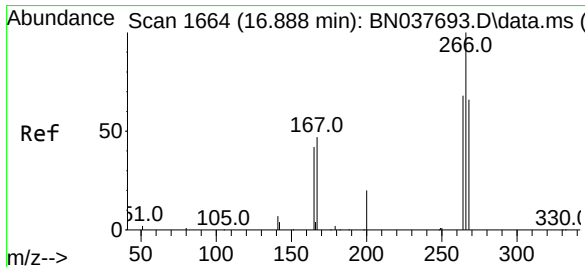
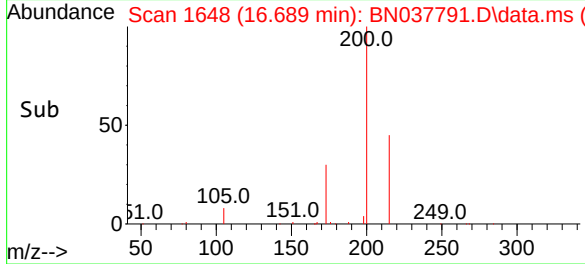
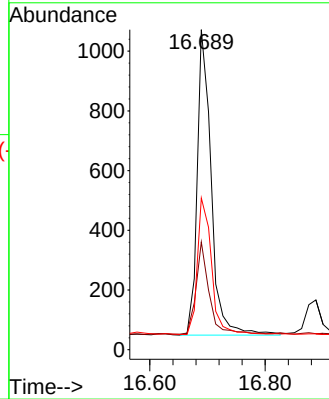
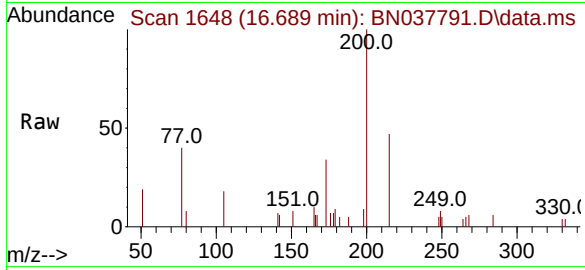




#23
Atrazine
Concen: 0.339 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.012 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

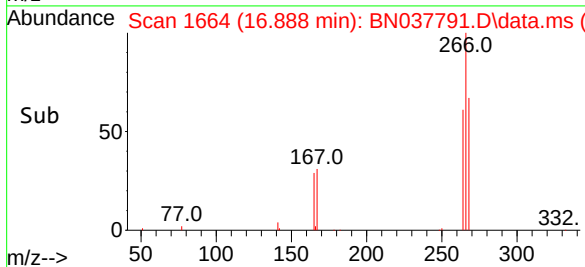
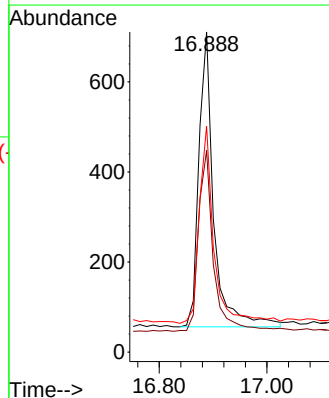
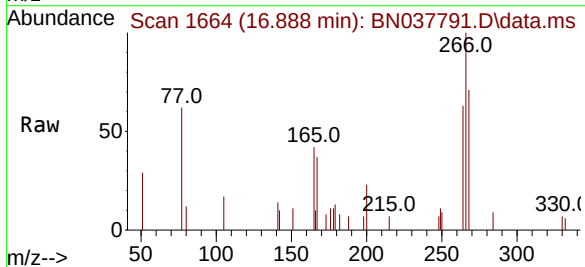
Instrument :
BNA_N
ClientSampleId :
PB169692BS

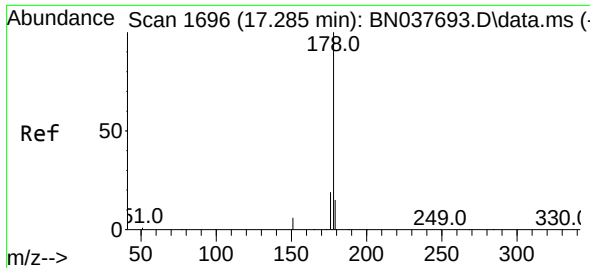
Tgt Ion:200 Resp: 1725
Ion Ratio Lower Upper
200 100
173 33.7 21.4 32.2#
215 47.4 39.2 58.8



#24
Pentachlorophenol
Concen: 0.472 ng
RT: 16.888 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:266 Resp: 1262
Ion Ratio Lower Upper
266 100
264 62.1 51.6 77.4
268 66.1 53.2 79.8

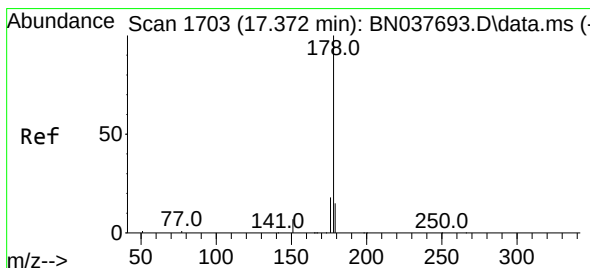
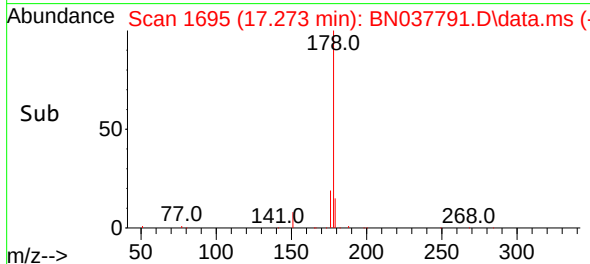
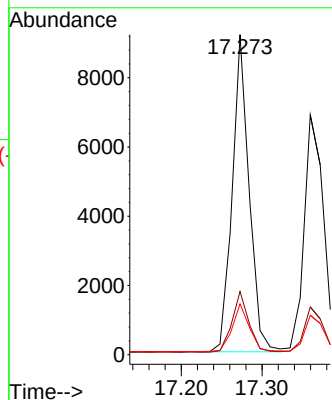
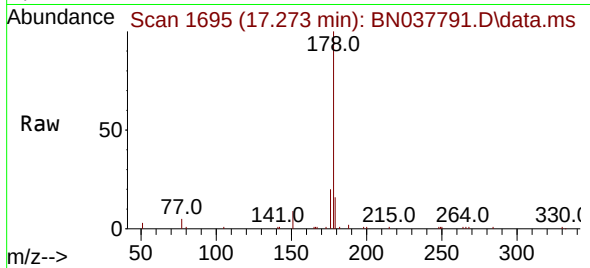




#25
Phenanthrene
Concen: 0.345 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.012 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

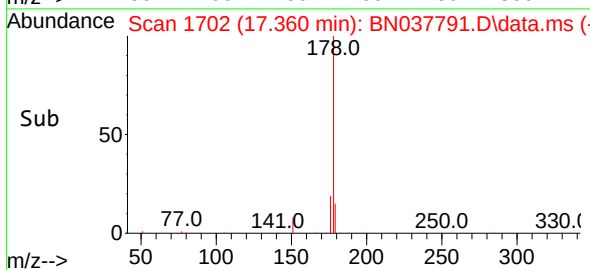
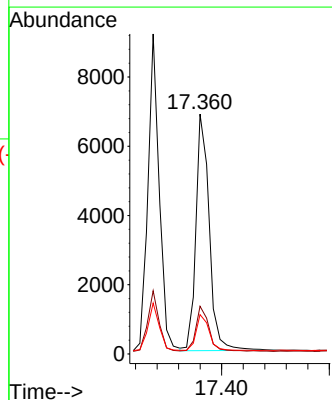
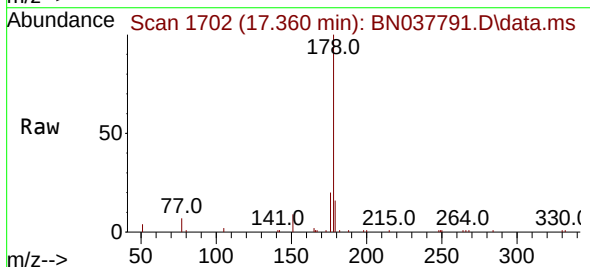
Instrument :
BNA_N
ClientSampleId :
PB169692BS

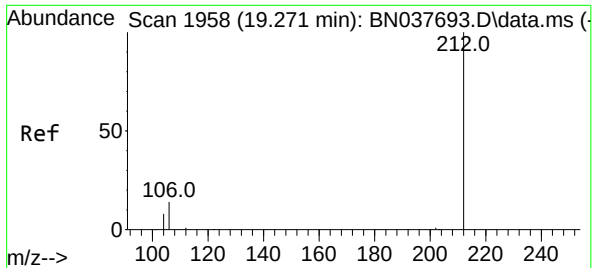
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.6	12.2	18.2



#26
Anthracene
Concen: 0.345 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.6	22.0
179	14.9	12.2	18.4





#27

Fluoranthene-d10

Concen: 0.300 ng

RT: 19.262 min Scan# 1958

Delta R.T. -0.009 min

Lab File: BN037791.D

Acq: 18 Sep 2025 23:40

Instrument :

BNA_N

ClientSampleId :

PB169692BS

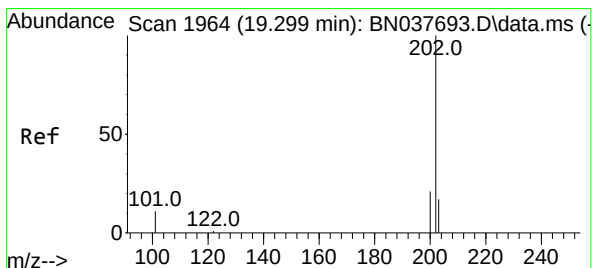
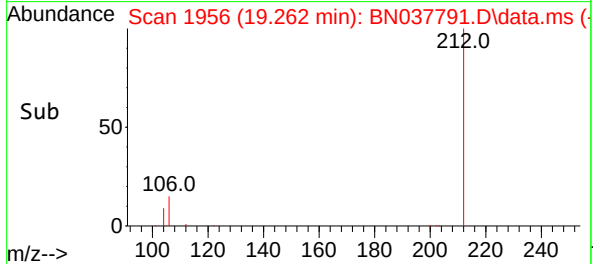
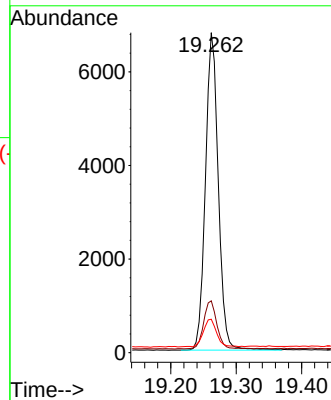
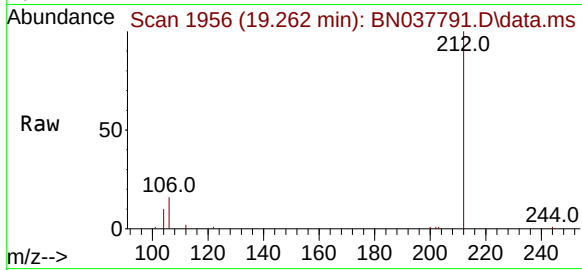
Tgt Ion:212 Resp: 9242

Ion Ratio Lower Upper

212 100

106 15.4 12.2 18.2

104 9.0 6.9 10.3



#28

Fluoranthene

Concen: 0.312 ng

RT: 19.294 min Scan# 1963

Delta R.T. -0.005 min

Lab File: BN037791.D

Acq: 18 Sep 2025 23:40

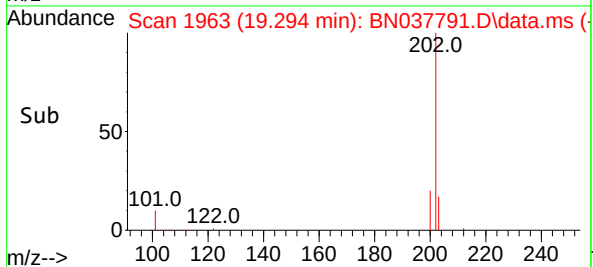
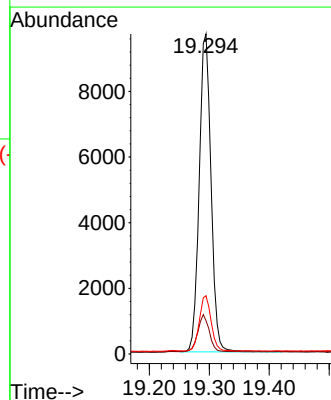
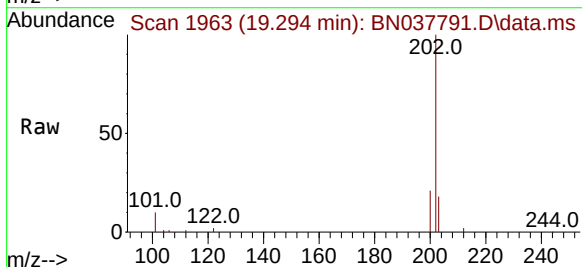
Tgt Ion:202 Resp: 13219

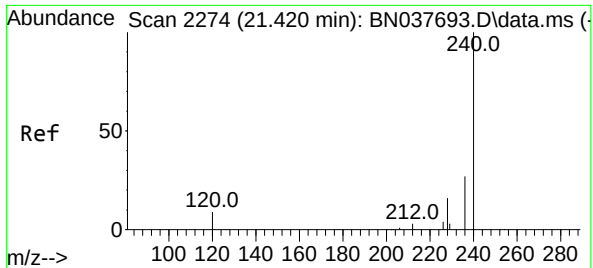
Ion Ratio Lower Upper

202 100

101 11.1 9.3 13.9

203 17.5 13.7 20.5

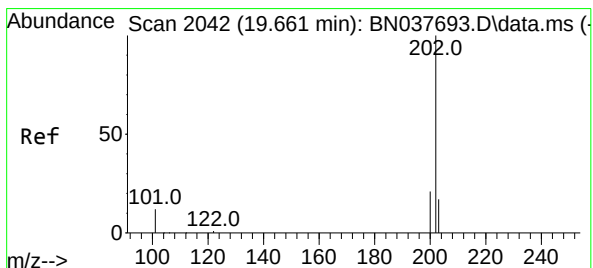
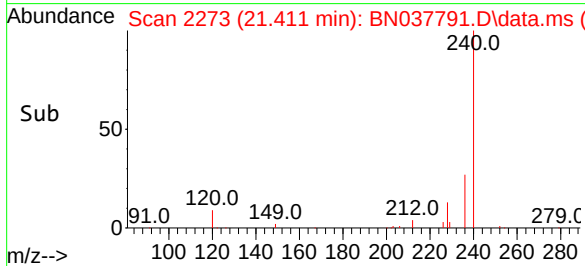
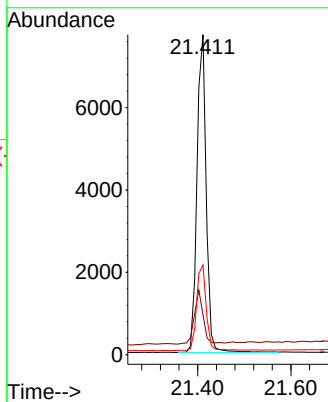
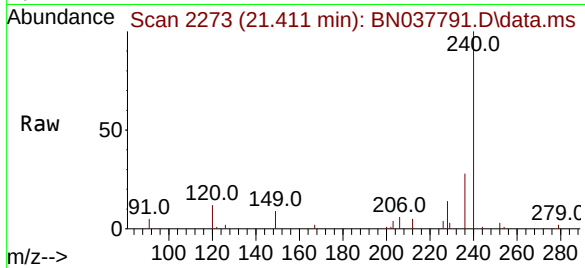




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

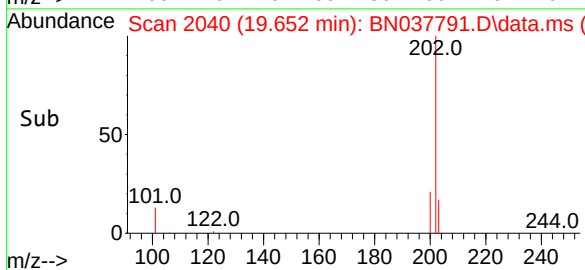
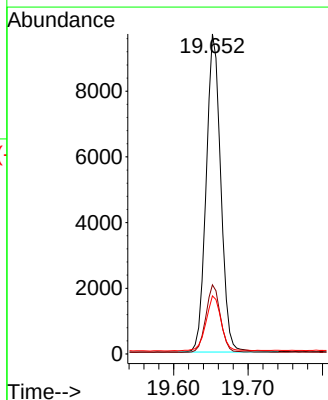
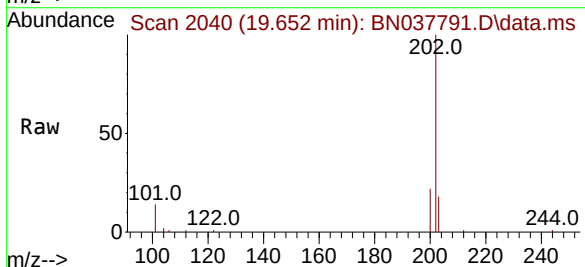
Instrument :
BNA_N
ClientSampleId :
PB169692BS

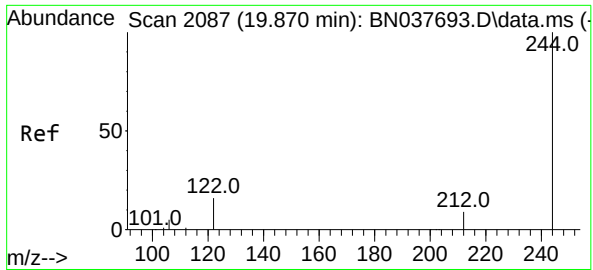
Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.5	9.2	13.8
236	28.0	22.6	33.8



#30
Pyrene
Concen: 0.317 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	18.0	14.3	21.5

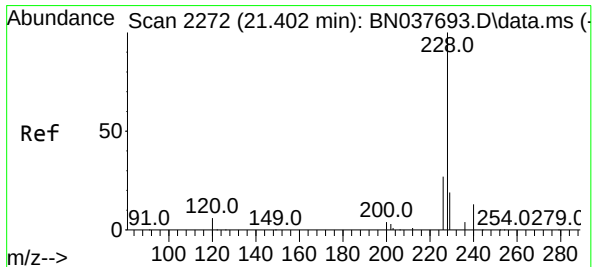
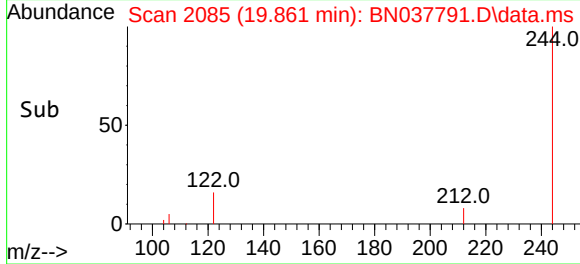
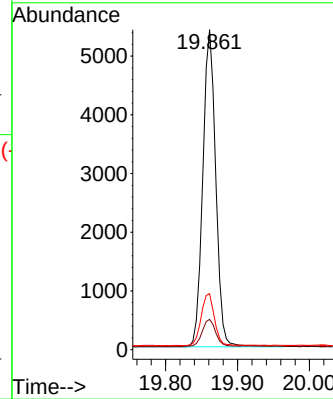
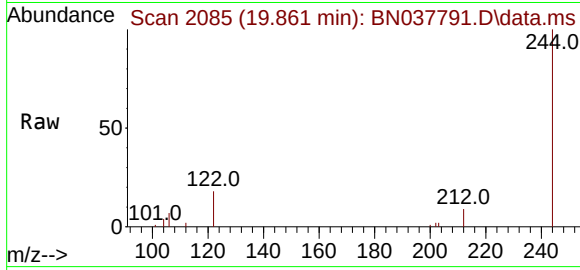




#31
Terphenyl-d14
Concen: 0.313 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

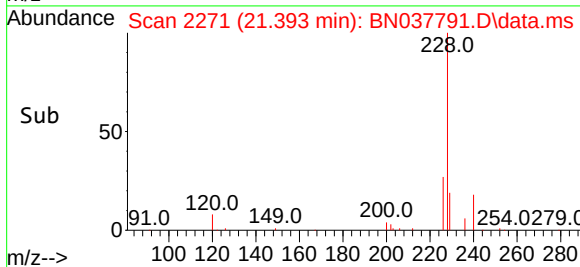
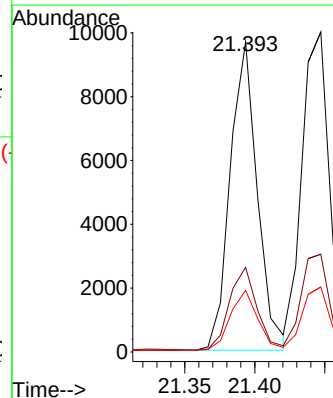
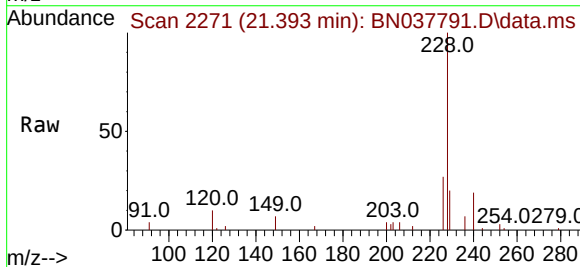
Instrument :
BNA_N
ClientSampleId :
PB169692BS

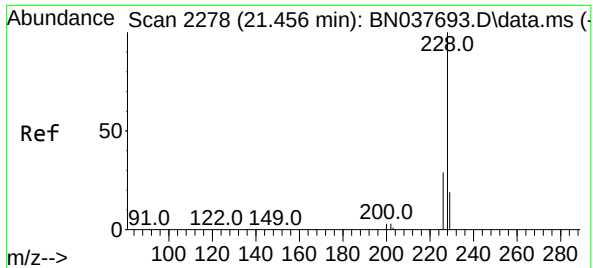
Tgt Ion:244 Resp: 6760
Ion Ratio Lower Upper
244 100
212 9.4 7.5 11.3
122 17.5 13.2 19.8



#32
Benzo(a)anthracene
Concen: 0.351 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:228 Resp: 13045
Ion Ratio Lower Upper
228 100
226 27.3 22.2 33.2
229 19.9 15.8 23.6

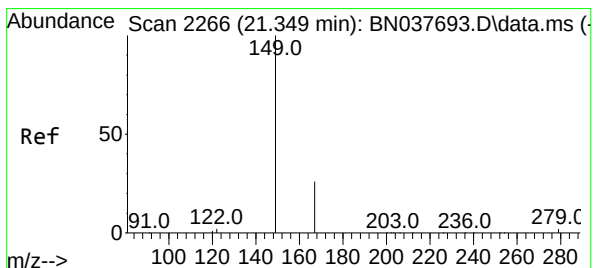
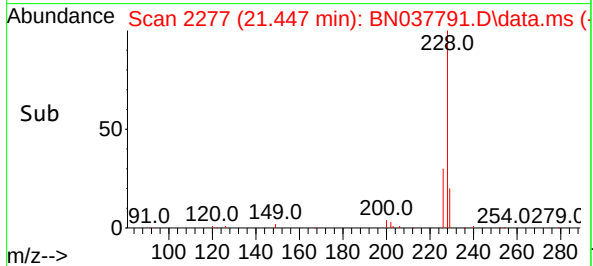
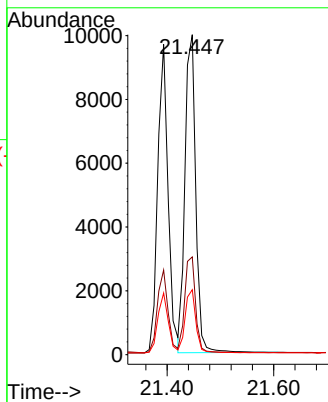
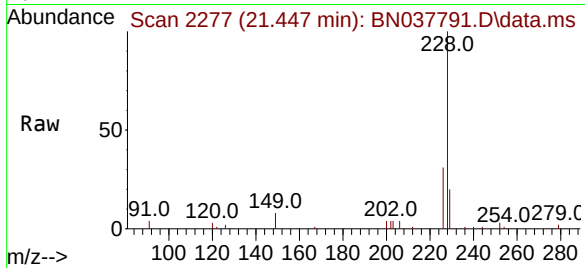




#33
Chrysene
Concen: 0.351 ng
RT: 21.447 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

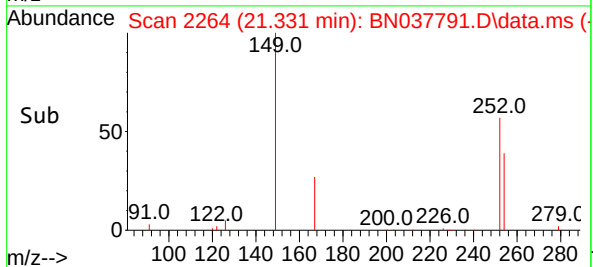
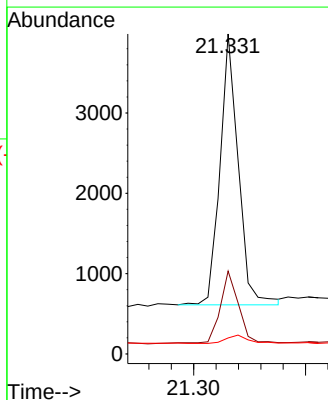
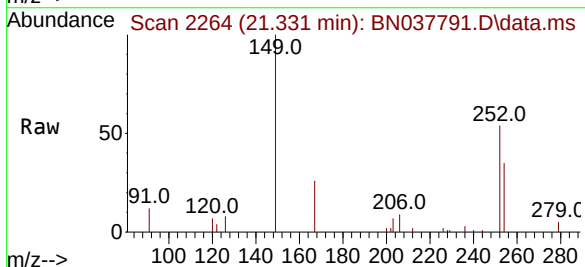
Instrument :
BNA_N
ClientSampleId :
PB169692BS

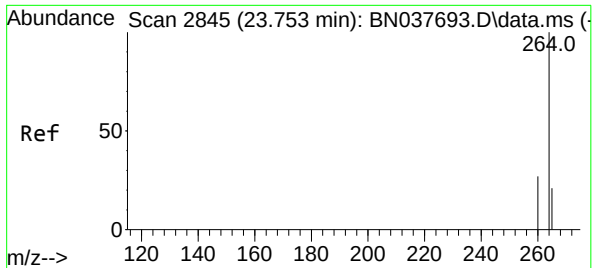
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	23.5	35.3
229	20.3	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.349 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

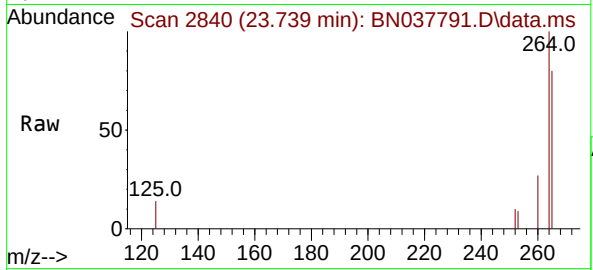
Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.6	20.8	31.2
279	3.7	3.3	4.9



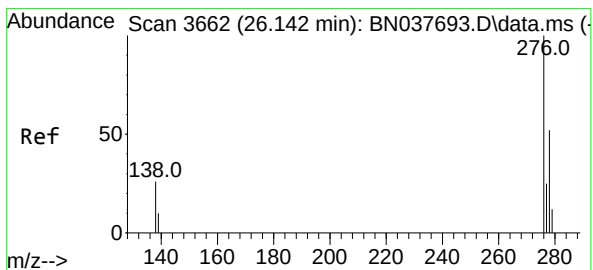
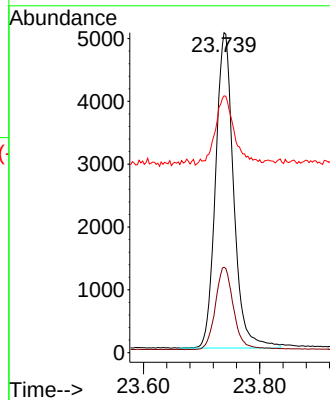


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.739 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Instrument :
BNA_N
ClientSampleId :
PB169692BS

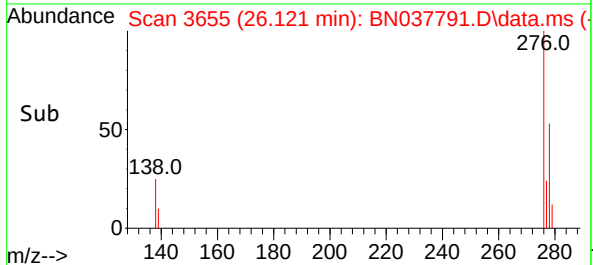
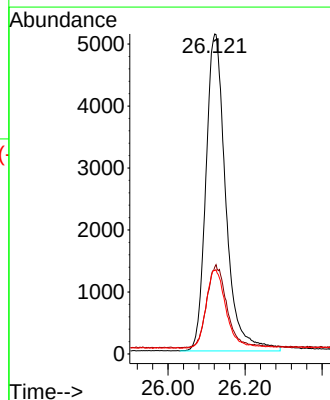
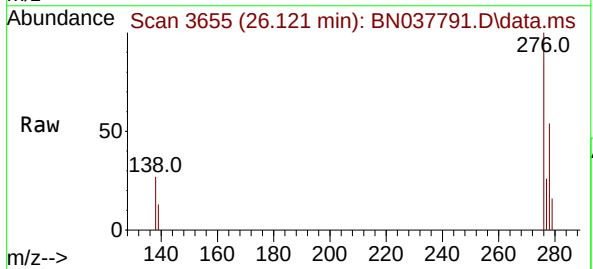


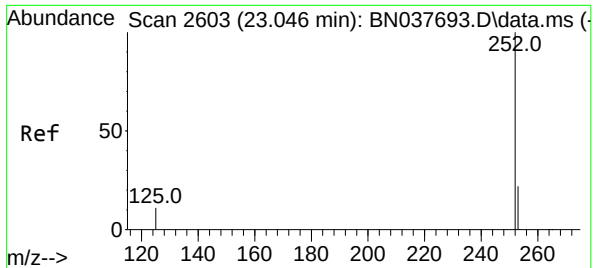
Tgt Ion:264 Resp: 10808
Ion Ratio Lower Upper
264 100
260 26.7 21.8 32.8
265 80.2 39.4 59.2#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.402 ng
RT: 26.121 min Scan# 3655
Delta R.T. -0.020 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:276 Resp: 18272
Ion Ratio Lower Upper
276 100
138 26.0 21.9 32.9
277 24.4 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.354 ng

RT: 23.034 min Scan# 2603

Delta R.T. -0.012 min

Lab File: BN037791.D

Acq: 18 Sep 2025 23:40

Instrument :

BNA_N

ClientSampleId :

PB169692BS

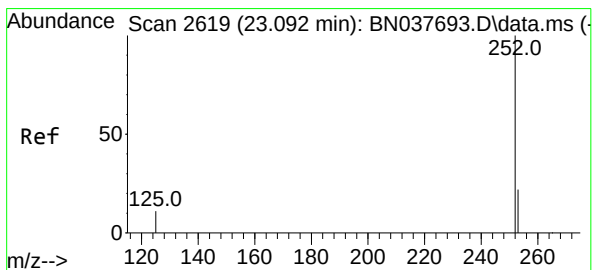
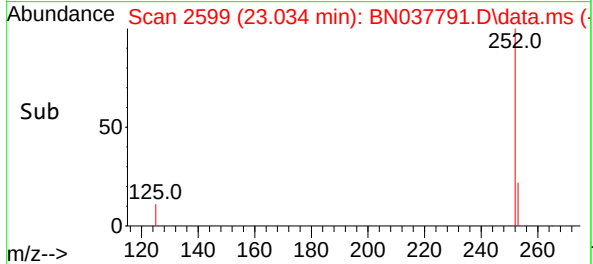
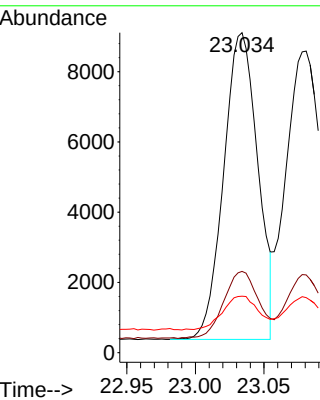
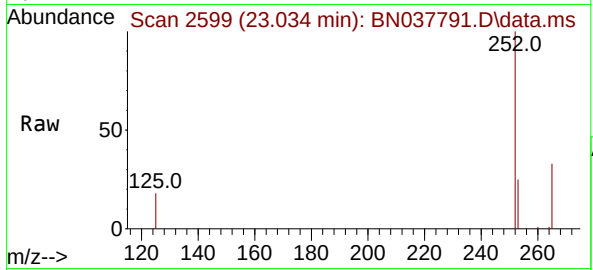
Tgt Ion:252 Resp: 15074

Ion Ratio Lower Upper

252 100

253 25.4 19.4 29.2

125 17.7 11.2 16.8#



#38

Benzo(k)fluoranthene

Concen: 0.356 ng

RT: 23.081 min Scan# 2615

Delta R.T. -0.012 min

Lab File: BN037791.D

Acq: 18 Sep 2025 23:40

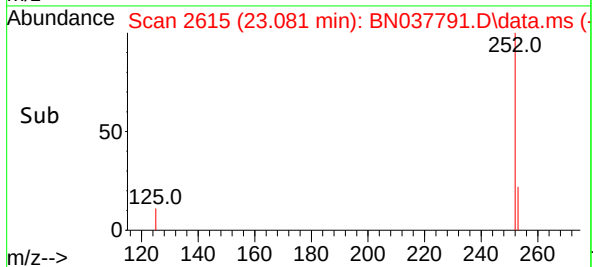
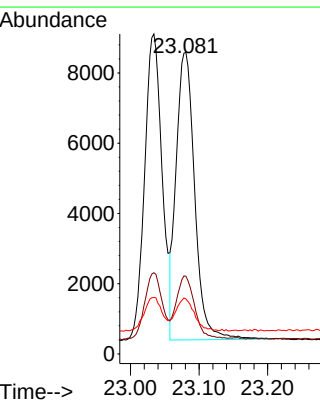
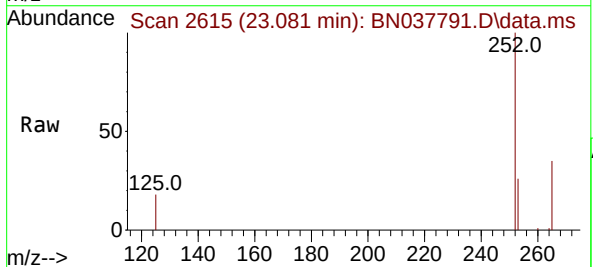
Tgt Ion:252 Resp: 15430

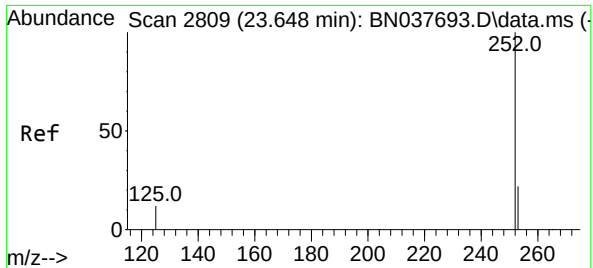
Ion Ratio Lower Upper

252 100

253 25.8 19.4 29.0

125 18.2 11.6 17.4#





#39

Benzo(a)pyrene

Concen: 0.383 ng

RT: 23.636 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037791.D

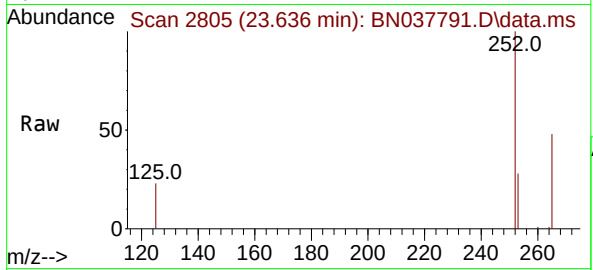
Acq: 18 Sep 2025 23:40

Instrument :

BNA_N

ClientSampleId :

PB169692BS



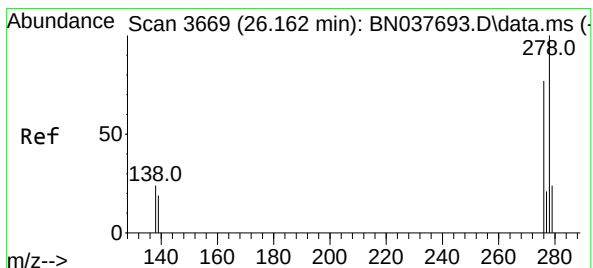
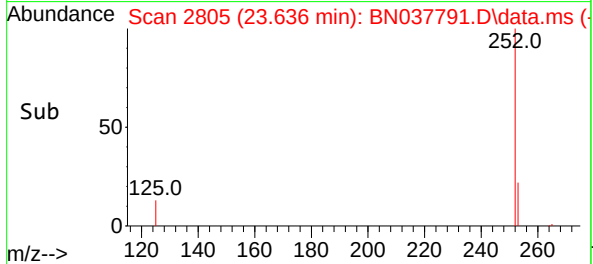
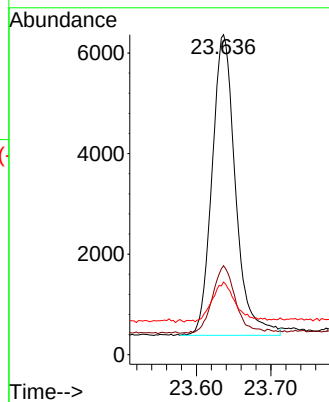
Tgt Ion:252 Resp: 13066

Ion Ratio Lower Upper

252 100

253 27.8 20.8 31.2

125 22.7 13.9 20.9#



#40

Dibenzo(a,h)anthracene

Concen: 0.387 ng

RT: 26.142 min Scan# 3662

Delta R.T. -0.020 min

Lab File: BN037791.D

Acq: 18 Sep 2025 23:40

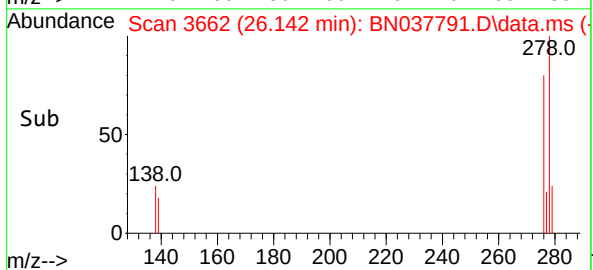
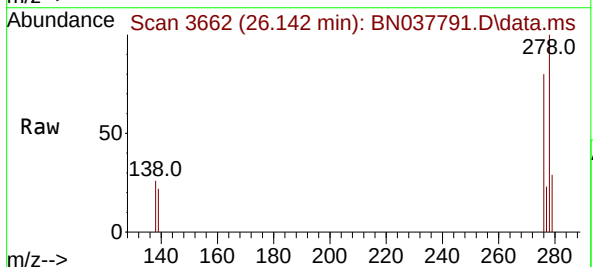
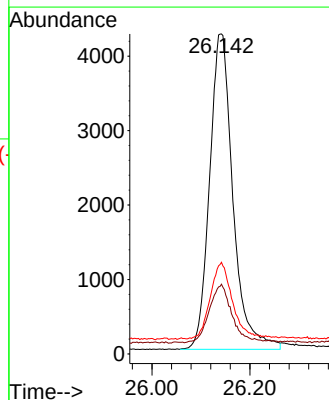
Tgt Ion:278 Resp: 14014

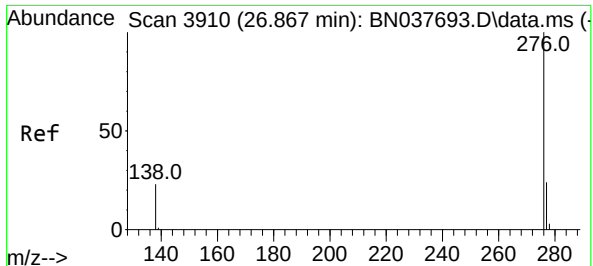
Ion Ratio Lower Upper

278 100

139 21.8 17.8 26.6

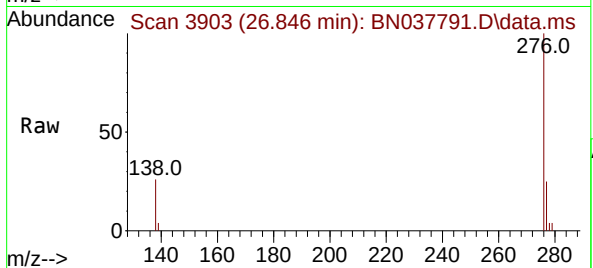
279 28.6 22.0 33.0



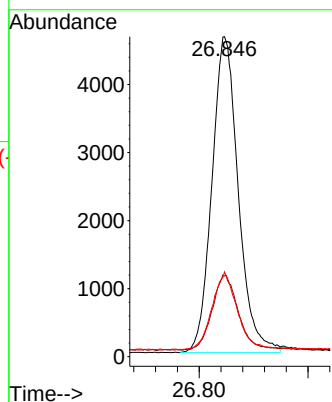
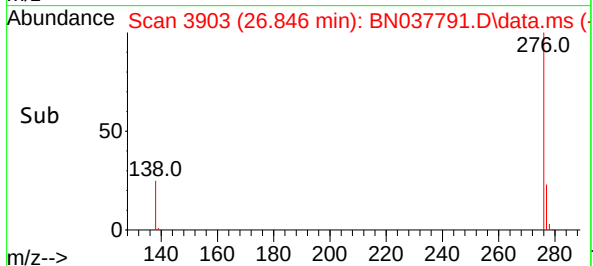


#41
Benzo(g,h,i)perylene
Concen: 0.384 ng
RT: 26.846 min Scan# 3910
Delta R.T. -0.020 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Instrument :
BNA_N
ClientSampleId :
PB169692BS



Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.2	20.6	31.0
138	26.5	20.2	30.2



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:	PB169693BS	SDG No.:	Q3095
Lab Sample ID:	PB169693BS	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
BN037792.D	1	09/15/25 12:00	09/19/25 00:16	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.31		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		77%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.29		30 - 150		73%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		92%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.32		58 - 132		81%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7440	7.833				
1146-65-2	Naphthalene-d8	19400	10.637				
15067-26-2	Acenaphthene-d10	8150	14.484				
1517-22-2	Phenanthrene-d10	12400	17.235				
1719-03-5	Chrysene-d12	10100	21.411				
1520-96-3	Perylene-d12	10200	23.738				

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\BN091825\
 Data File : BN037792.D
 Acq On : 19 Sep 2025 00:16
 Operator : RC/JU
 Sample : PB169693BS
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB169693BS

Manual Integrations**APPROVED**

Reviewed By :Rahul Chavli 09/19/2025

Supervised By :mohammad ahmed 09/23/2025

Quant Time: Sep 19 04:12:55 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Sep 11 14:20:01 2025

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7441	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	19392	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	8149	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	12386	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	10095	0.400	ng	0.00
35) Perylene-d12	23.738	264	10200	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	5555	0.325	ng	0.00
5) Phenol-d6	6.980	99	6563	0.296	ng	0.00
8) Nitrobenzene-d5	8.982	82	5088	0.359	ng	-0.01
11) 2-Methylnaphthalene-d10	12.232	152	7932	0.309	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	674	0.317	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	12492	0.367	ng	-0.01
27) Fluoranthene-d10	19.262	212	9050	0.291	ng	0.00
31) Terphenyl-d14	19.861	244	6591	0.322	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.304	88	2366	0.305	ng	# 85
3) n-Nitrosodimethylamine	3.600	42	3300	0.326	ng	# 90
6) bis(2-Chloroethyl)ether	7.248	93	6941	0.351	ng	100
9) Naphthalene	10.680	128	17810	0.336	ng	99
10) Hexachlorobutadiene	10.989	225	3379	0.352	ng	# 99
12) 2-Methylnaphthalene	12.303	142	9820	0.299	ng	99
16) Acenaphthylene	14.206	152	13377	0.358	ng	99
17) Acenaphthene	14.548	154	8509	0.337	ng	99
18) Fluorene	15.535	166	9452	0.309	ng	99
20) 4,6-Dinitro-2-methylph...	15.609	198	305	0.266	ng	# 88
21) 4-Bromophenyl-phenylether	16.428	248	2895	0.358	ng	# 92
22) Hexachlorobenzene	16.540	284	3601	0.388	ng	98
23) Atrazine	16.689	200	1710	0.333	ng	# 94
24) Pentachlorophenol	16.888	266	1388	0.515	ng	98
25) Phenanthrene	17.273	178	13505	0.346	ng	100
26) Anthracene	17.359	178	11748	0.340	ng	99
28) Fluoranthene	19.294	202	12912	0.302	ng	100
30) Pyrene	19.652	202	12854	0.325	ng	100
32) Benzo(a)anthracene	21.393	228	12540	0.356	ng	100
33) Chrysene	21.447	228	13567	0.359	ng	100
34) Bis(2-ethylhexyl)phtha...	21.331	149	3708	0.355	ng	98
36) Indeno(1,2,3-cd)pyrene	26.118	276	17423	0.407	ng	99
37) Benzo(b)fluoranthene	23.034	252	14955	0.372	ng	# 96
38) Benzo(k)fluoranthene	23.081	252	14241m	0.348	ng	
39) Benzo(a)pyrene	23.633	252	12714	0.395	ng	# 94
40) Dibenzo(a,h)anthracene	26.142	278	13475	0.394	ng	99
41) Benzo(g,h,i)perylene	26.843	276	15272	0.398	ng	99

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

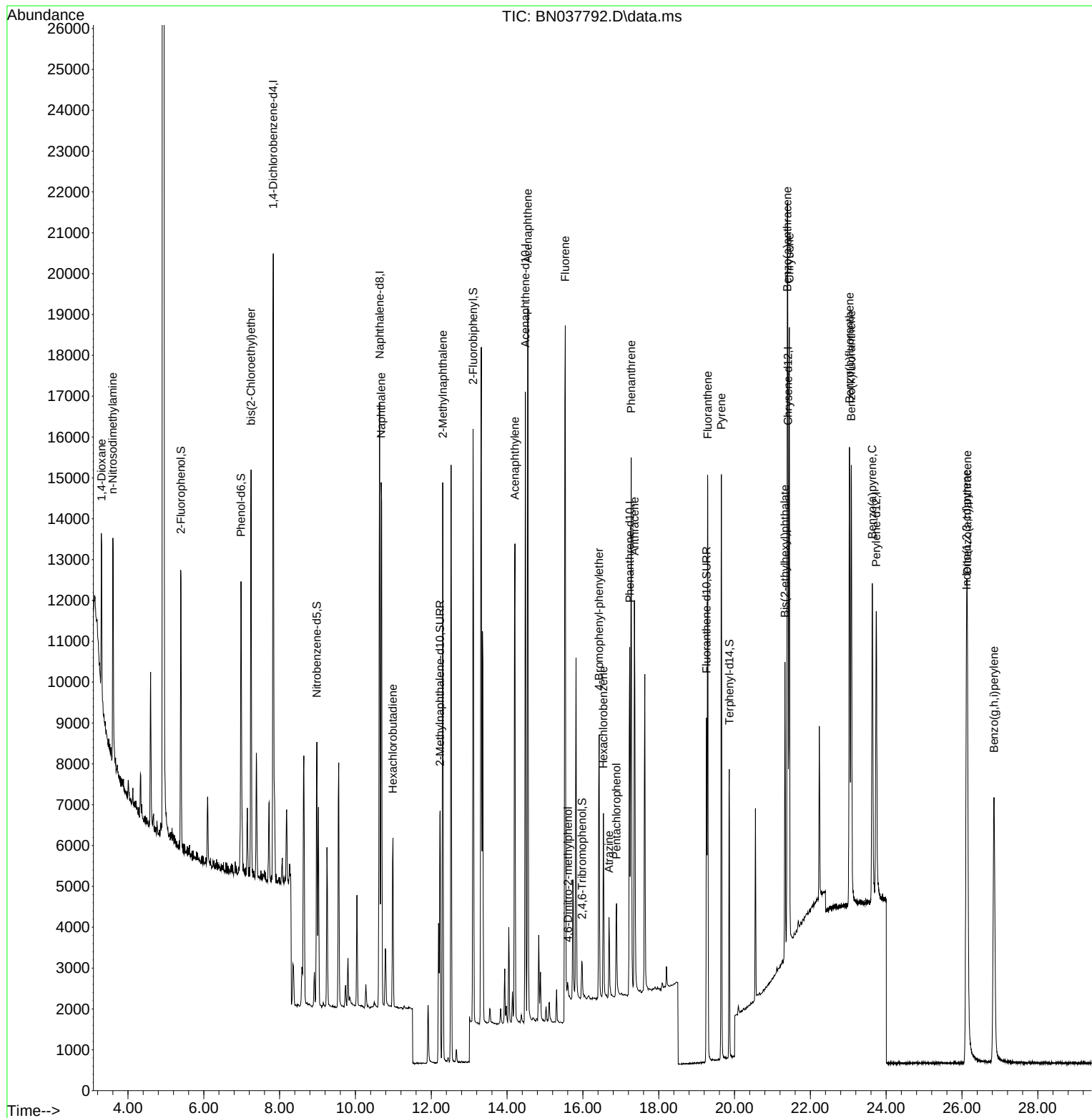
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037792.D
Acq On : 19 Sep 2025 00:16
Operator : RC/JU
Sample : PB169693BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

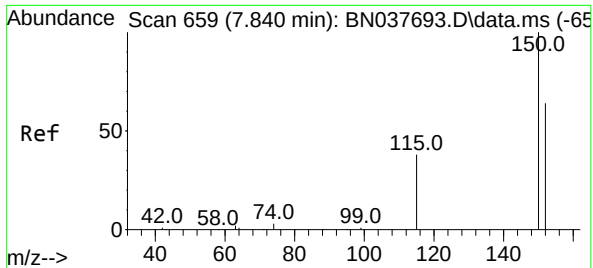
Instrument :
BNA_N
ClientSampleId :
PB169693BS

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

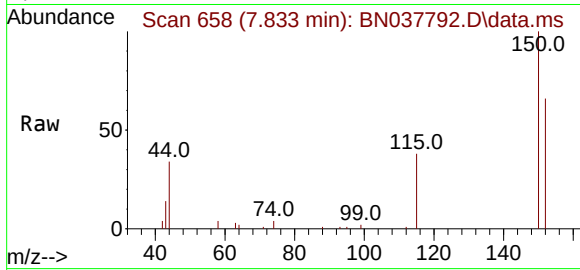
Quant Time: Sep 19 04:12:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

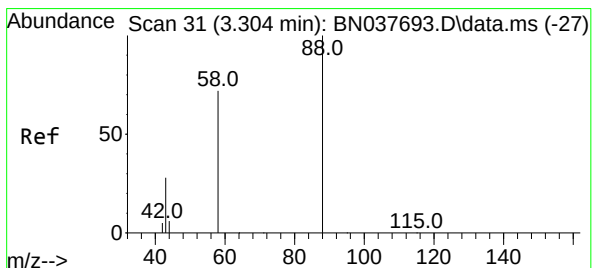
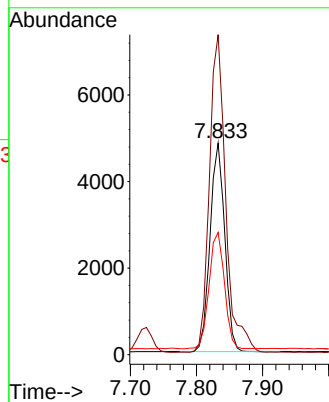
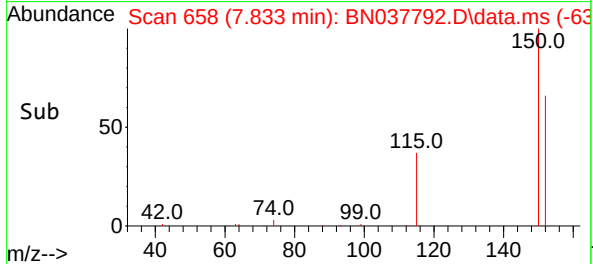
Instrument :
BNA_N
ClientSampleId :
PB169693BS



Tgt Ion:152 Resp: 744
Ion Ratio Lower Upper
152 100
150 151.3 124.5 186.7
115 57.8 49.2 73.8

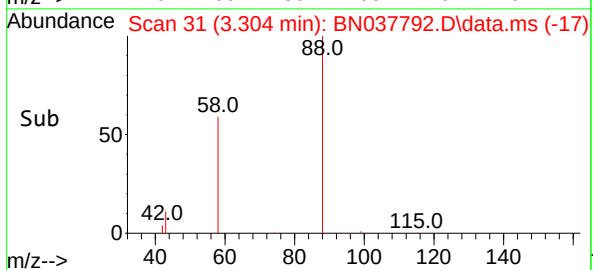
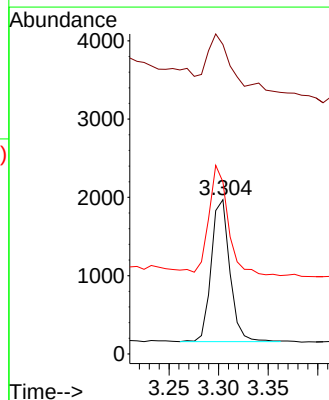
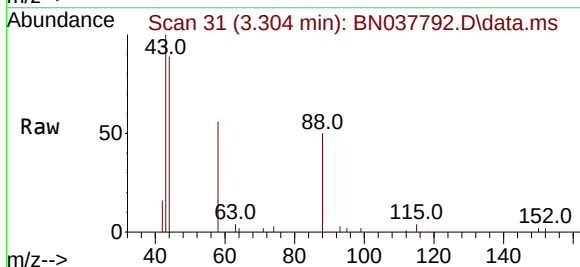
Manual Integrations
APPROVED

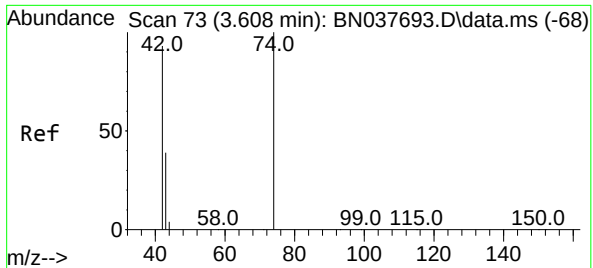
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#2
1,4-Dioxane
Concen: 0.305 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

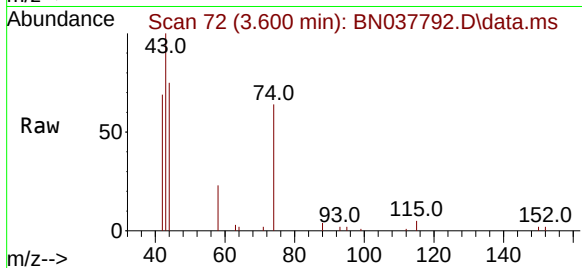
Tgt Ion: 88 Resp: 2366
Ion Ratio Lower Upper
88 100
43 56.6 26.8 40.2#
58 80.3 61.9 92.9





#3
n-Nitrosodimethylamine
Concen: 0.326 ng
RT: 3.600 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

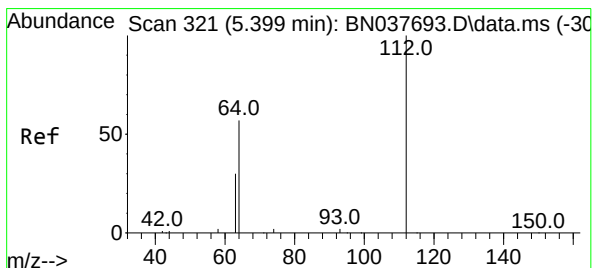
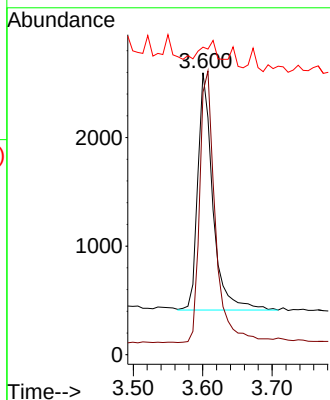
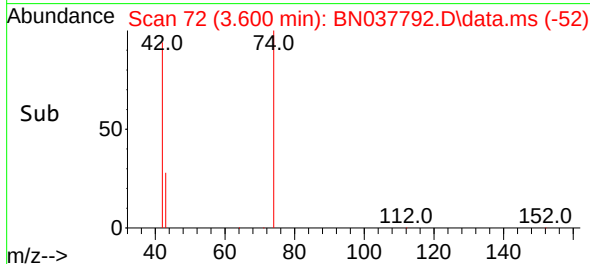
Instrument :
BNA_N
ClientSampleId :
PB169693BS



Tgt Ion: 42 Resp: 3300
Ion Ratio Lower Upper
42 100
74 118.9 86.0 129.0
44 8.3 8.4 12.6

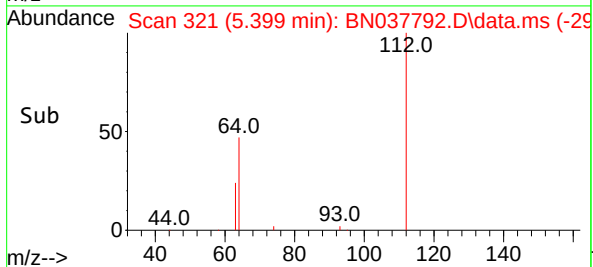
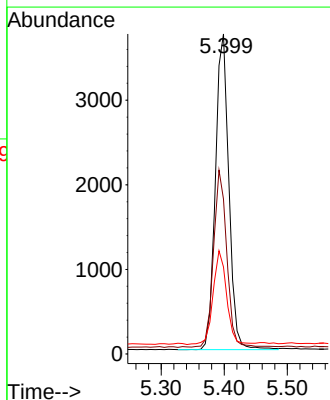
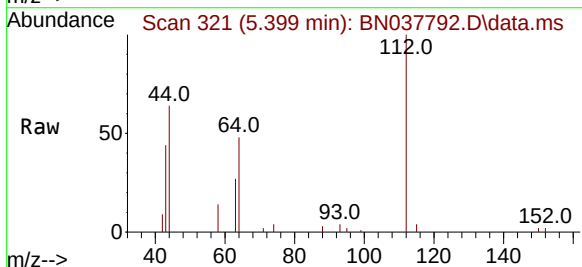
Manual Integrations
APPROVED

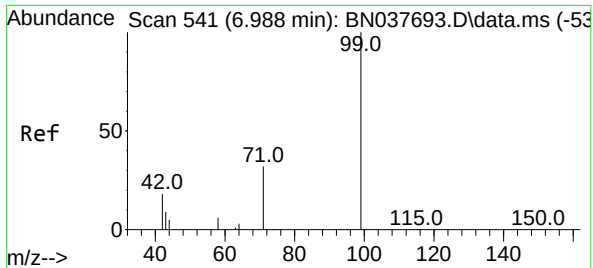
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#4
2-Fluorophenol
Concen: 0.325 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

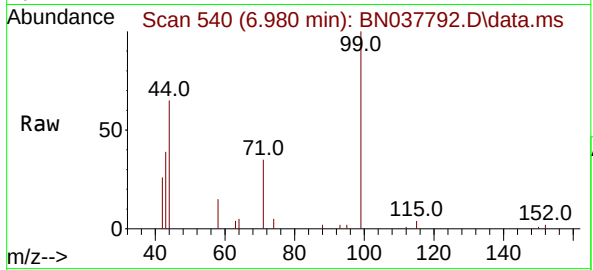
Tgt Ion:112 Resp: 5555
Ion Ratio Lower Upper
112 100
64 55.5 44.9 67.3
63 29.6 24.7 37.1





#5
Phenol-d6
Concen: 0.296 ng
RT: 6.980 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

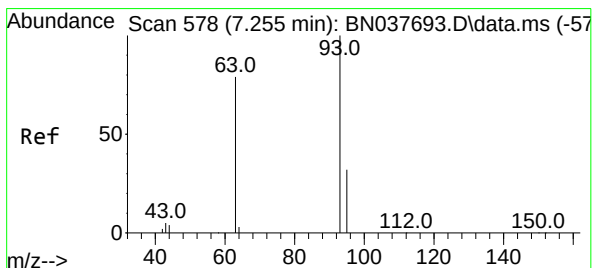
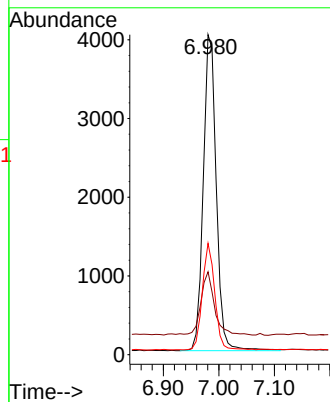
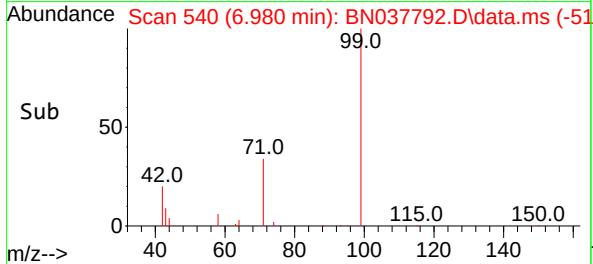
Instrument :
BNA_N
ClientSampleId :
PB169693BS



Tgt Ion: 99 Resp: 656
Ion Ratio Lower Upper
99 100
42 20.6 16.6 24.8
71 32.2 26.7 40.1

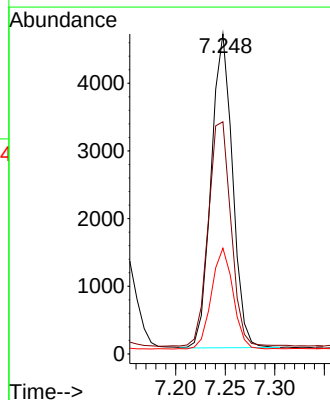
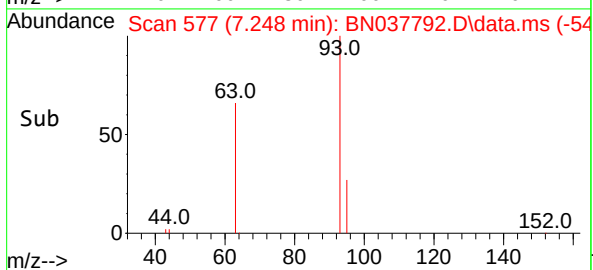
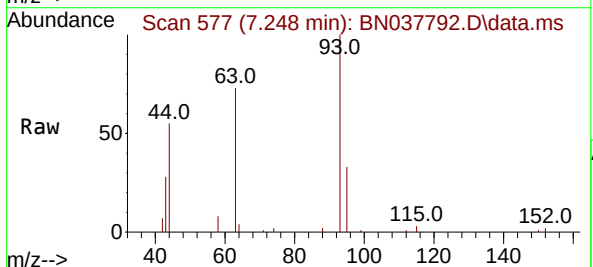
Manual Integrations
APPROVED

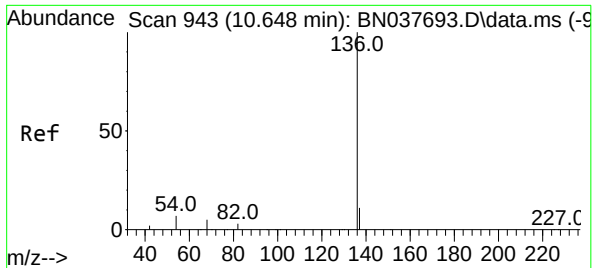
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.351 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion: 93 Resp: 6941
Ion Ratio Lower Upper
93 100
63 76.1 60.6 90.8
95 32.6 26.0 39.0





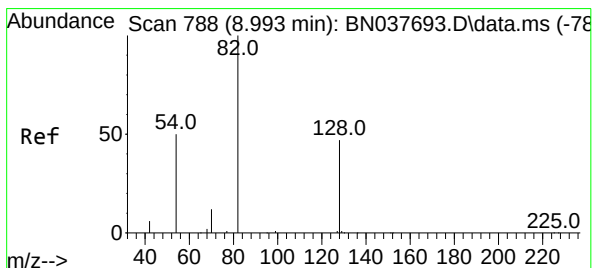
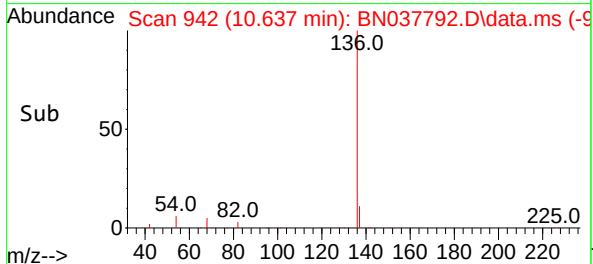
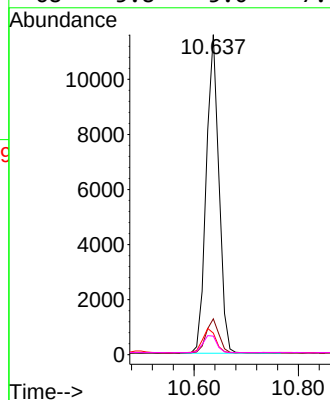
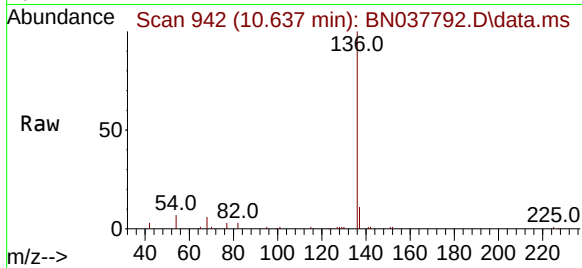
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	6.8	6.3	9.5
68	5.8	5.0	7.4

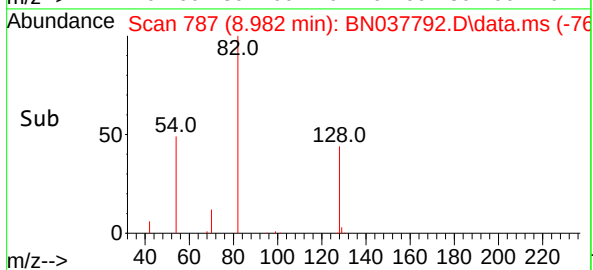
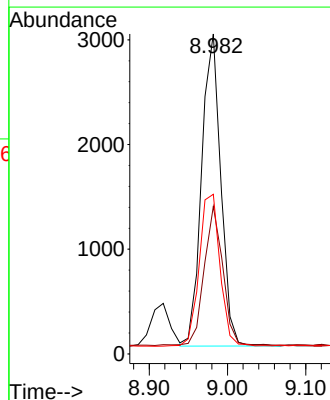
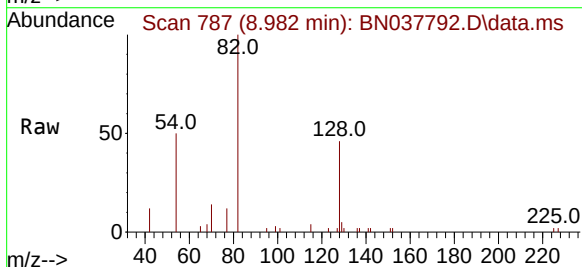
Manual Integrations
APPROVED

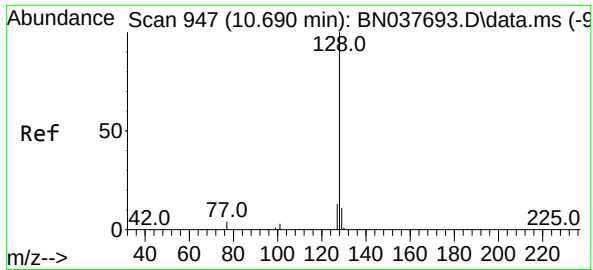
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#8
Nitrobenzene-d5
Concen: 0.359 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

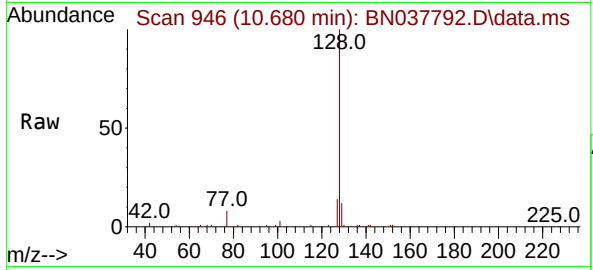
Tgt Ion	Ratio	Lower	Upper
82	100		
128	46.1	38.3	57.5
54	49.9	41.4	62.2





#9
Naphthalene
Concen: 0.336 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

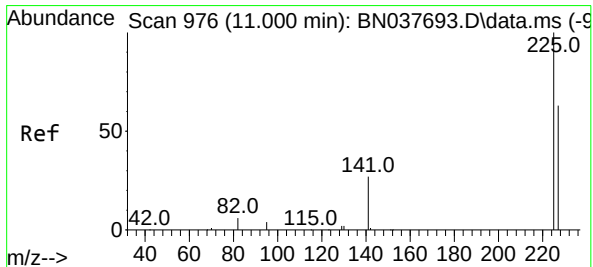
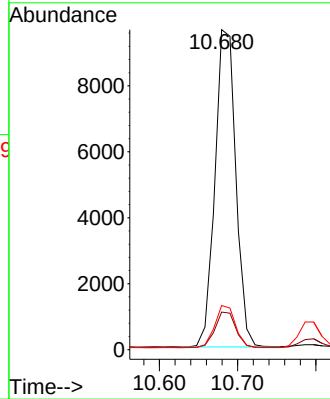
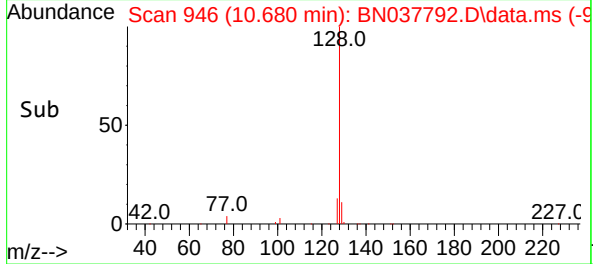
Instrument :
BNA_N
ClientSampleId :
PB169693BS



Tgt Ion:128 Resp: 17810
Ion Ratio Lower Upper
128 100
129 11.7 9.1 13.7
127 13.8 10.9 16.3

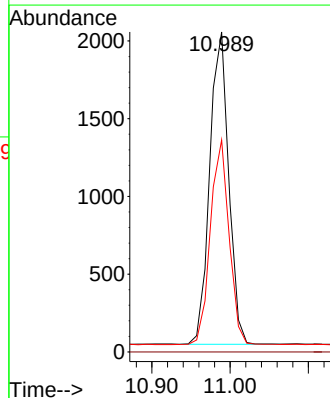
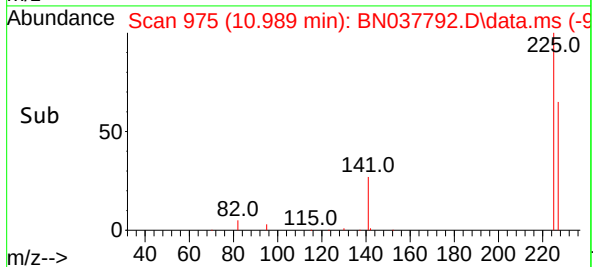
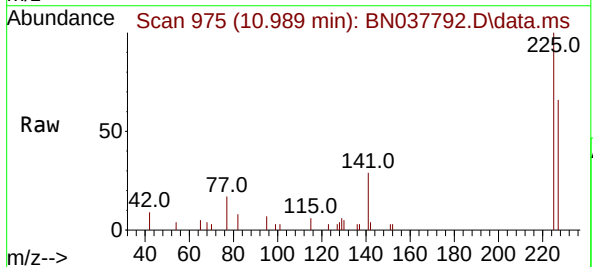
Manual Integrations
APPROVED

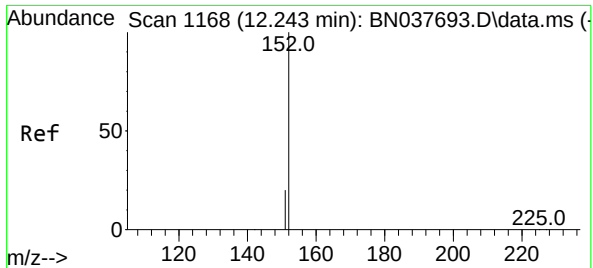
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#10
Hexachlorobutadiene
Concen: 0.352 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

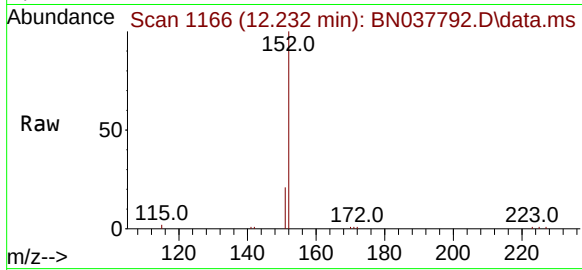
Tgt Ion:225 Resp: 3379
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.5 50.9 76.3





#11
2-Methylnaphthalene-d10
Concen: 0.309 ng
RT: 12.232 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

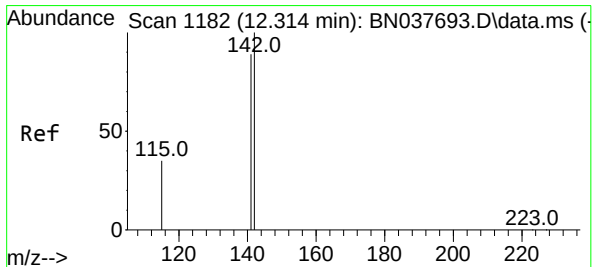
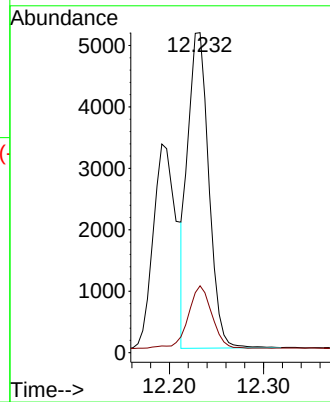
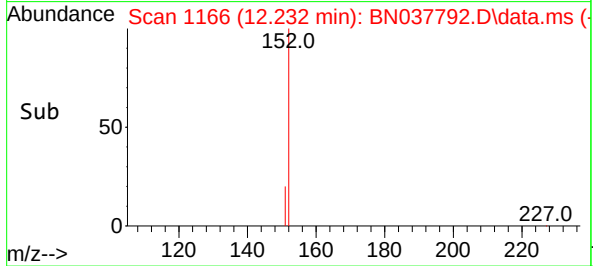
Instrument :
BNA_N
ClientSampleId :
PB169693BS



Tgt Ion:152 Resp: 7932
Ion Ratio Lower Upper
152 100
151 22.6 17.0 25.6

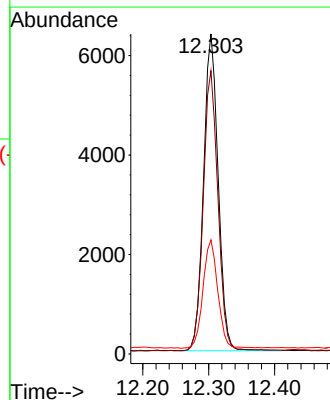
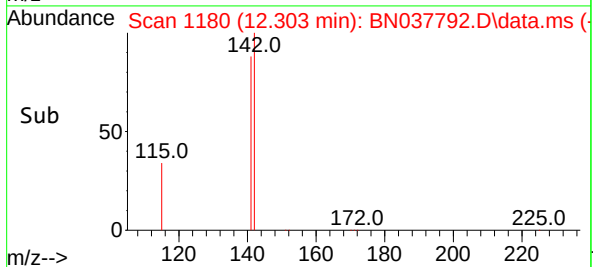
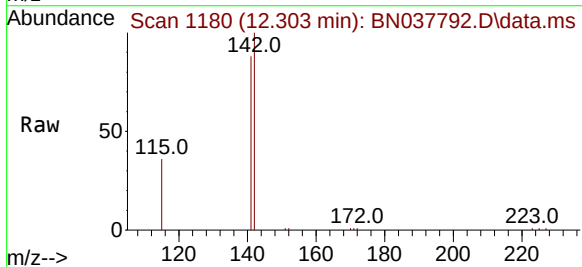
Manual Integrations
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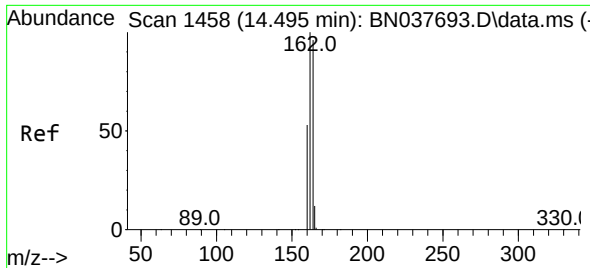
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#12
2-Methylnaphthalene
Concen: 0.299 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

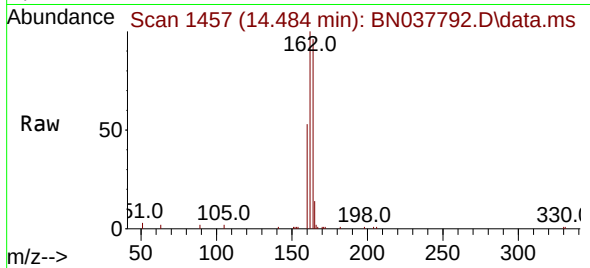
Tgt Ion:142 Resp: 9820
Ion Ratio Lower Upper
142 100
141 88.5 71.6 107.4
115 35.7 28.6 43.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

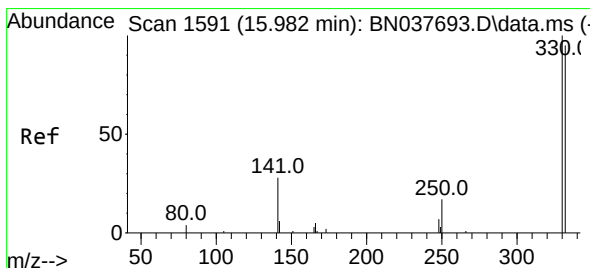
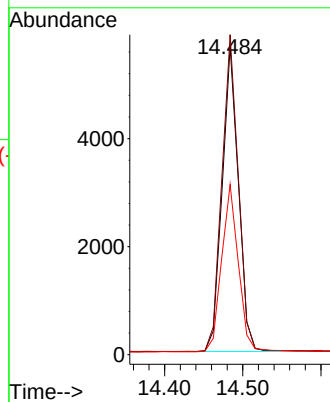
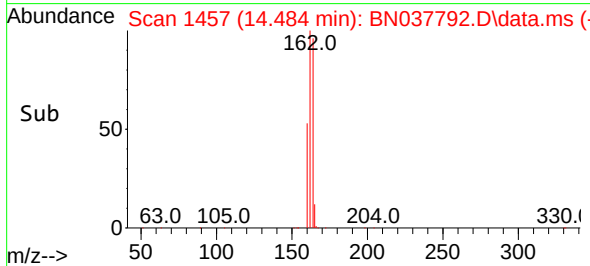
Instrument :
BNA_N
ClientSampleId :
PB169693BS



Tgt Ion:164 Resp: 8149
Ion Ratio Lower Upper
164 100
162 103.7 83.1 124.7
160 55.2 44.3 66.5

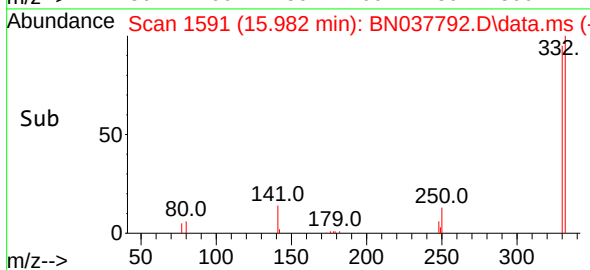
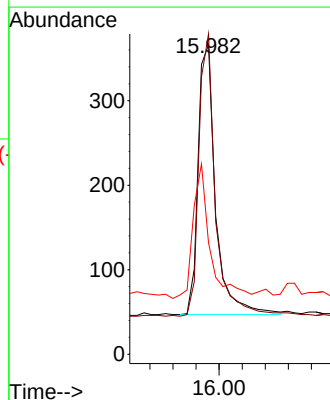
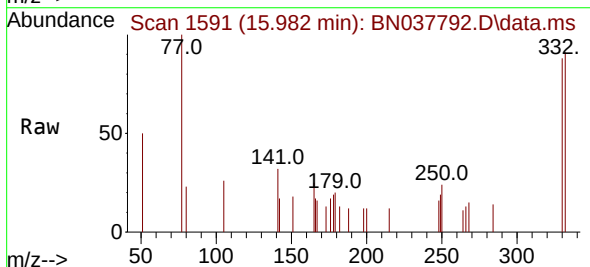
Manual Integrations
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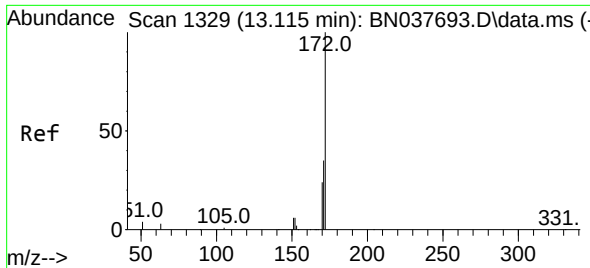
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#14
2,4,6-Tribromophenol
Concen: 0.317 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

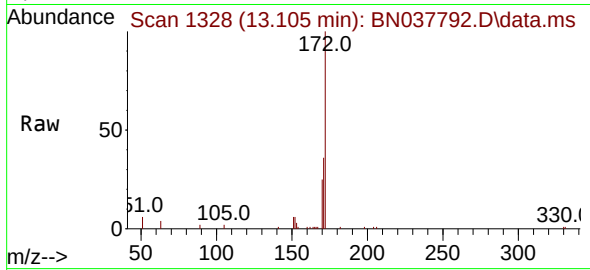
Tgt Ion:330 Resp: 674
Ion Ratio Lower Upper
330 100
332 99.4 75.3 112.9
141 47.6 35.0 52.4





#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 13.105 min Scan# 1329
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

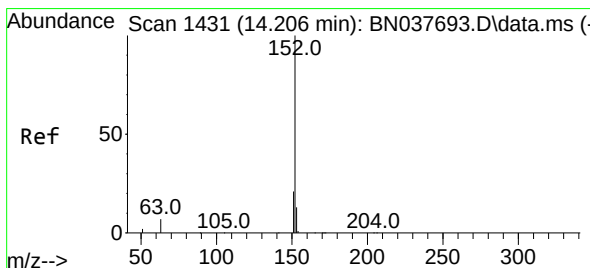
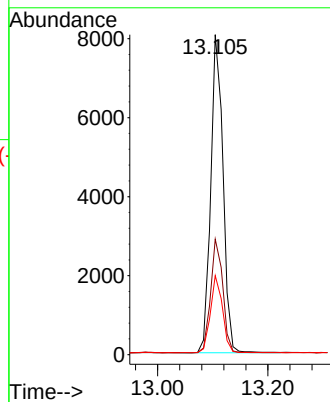
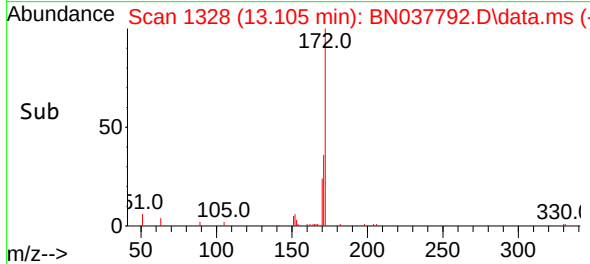
Instrument :
BNA_N
ClientSampleId :
PB169693BS



Tgt Ion:172 Resp: 12492
Ion Ratio Lower Upper
172 100
171 36.1 28.6 43.0
170 24.7 19.8 29.8

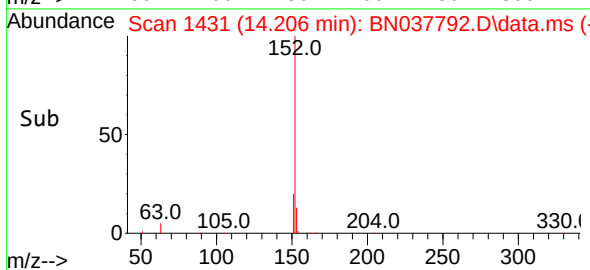
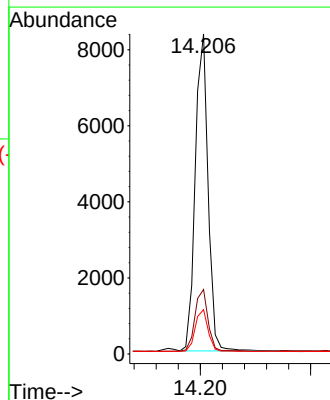
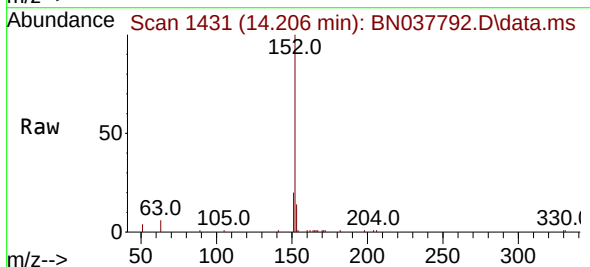
Manual Integrations
APPROVED

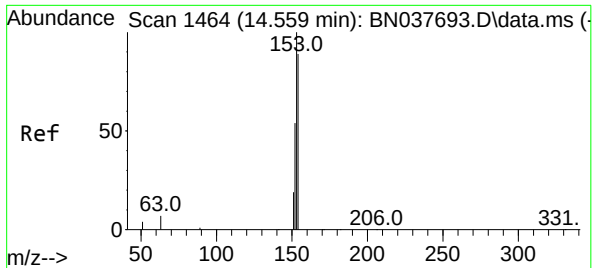
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#16
Acenaphthylene
Concen: 0.358 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

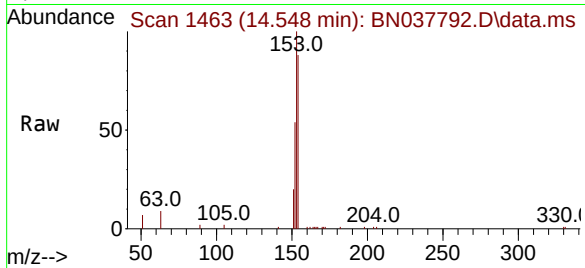
Tgt Ion:152 Resp: 13377
Ion Ratio Lower Upper
152 100
151 20.1 16.2 24.2
153 13.4 10.4 15.6





#17
Acenaphthene
Concen: 0.337 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

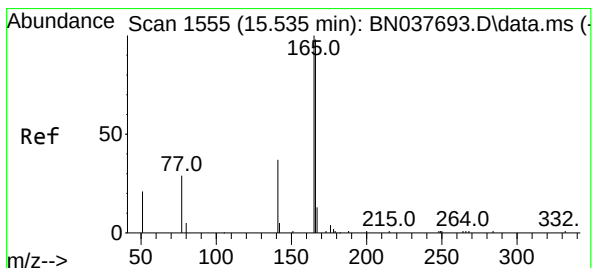
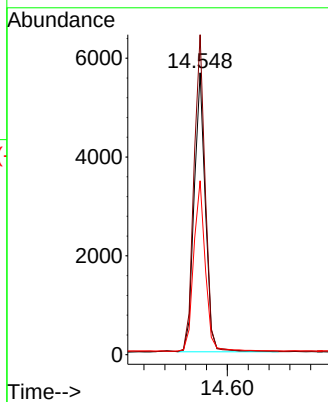
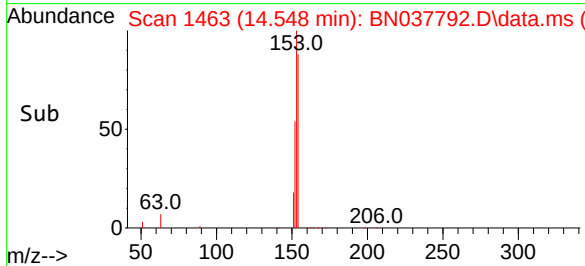
Instrument :
BNA_N
ClientSampleId :
PB169693BS



Tgt Ion:154 Resp: 8509
Ion Ratio Lower Upper
154 100
153 113.0 89.8 134.8
152 62.9 50.2 75.2

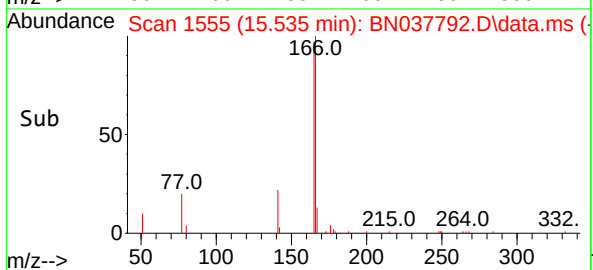
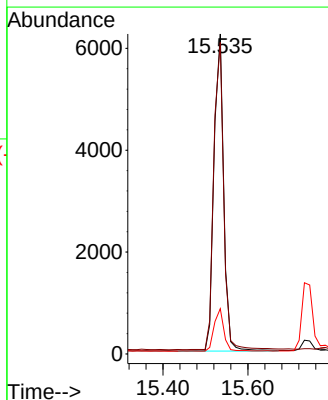
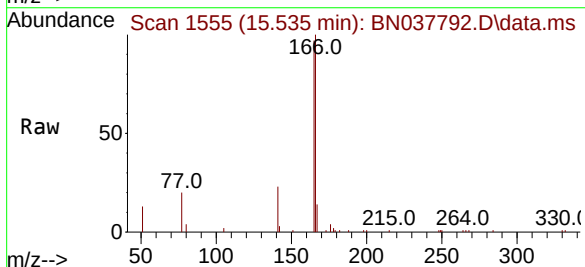
Manual Integrations
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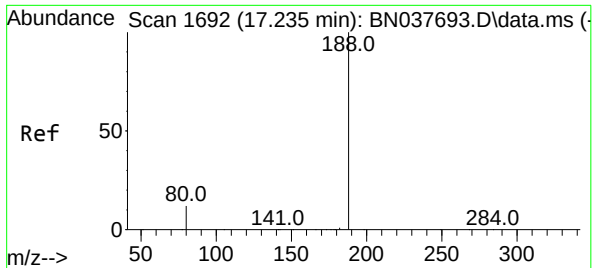
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#18
Fluorene
Concen: 0.309 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

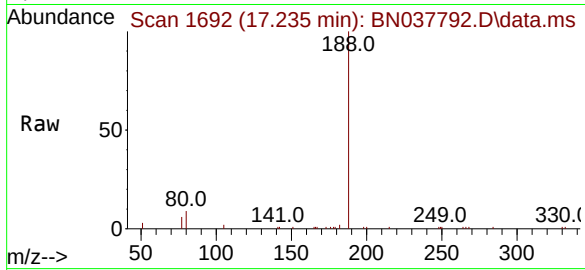
Tgt Ion:166 Resp: 9452
Ion Ratio Lower Upper
166 100
165 99.9 79.6 119.4
167 13.9 10.6 16.0





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

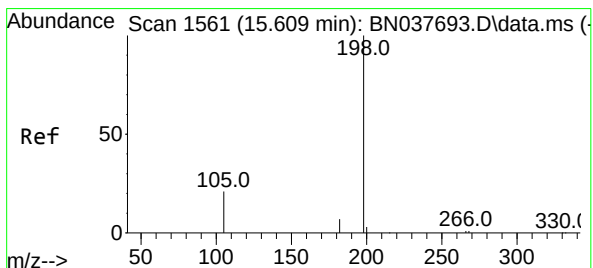
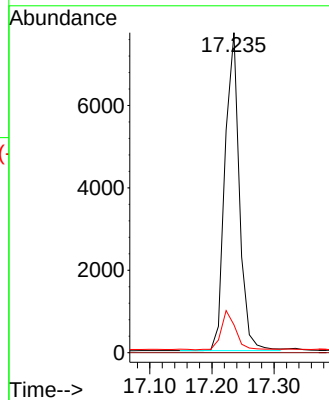
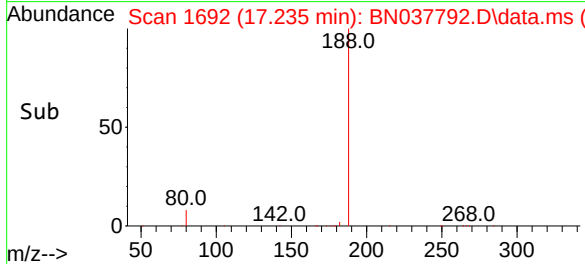
Instrument :
BNA_N
ClientSampleId :
PB169693BS



Tgt Ion:188 Resp: 12380
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.7 10.6 15.8

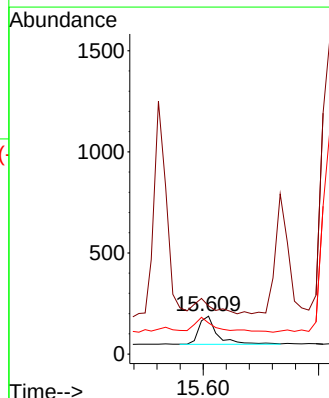
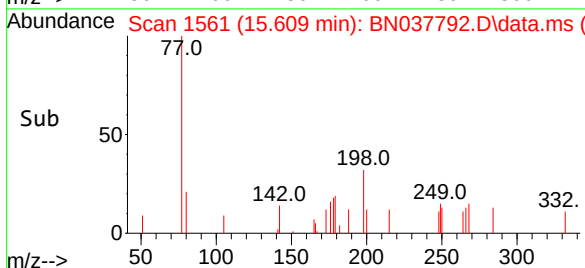
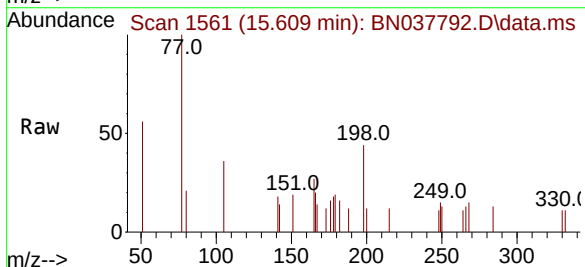
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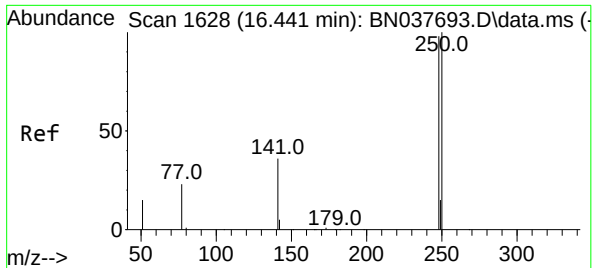
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#20
4,6-Dinitro-2-methylphenol
Concen: 0.266 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

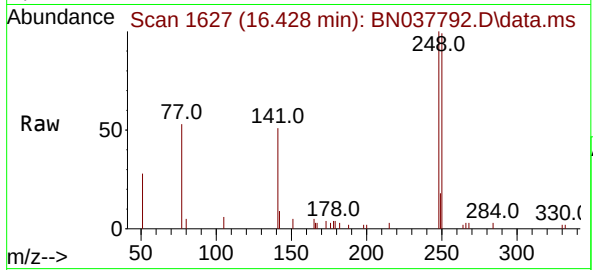
Tgt Ion:198 Resp: 305
Ion Ratio Lower Upper
198 100
51 127.3 95.1 142.7
105 82.4 53.8 80.6





#21
4-Bromophenyl-phenylether
Concen: 0.358 ng
RT: 16.428 min Scan# 1627
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

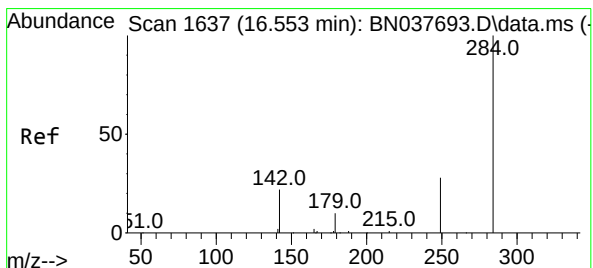
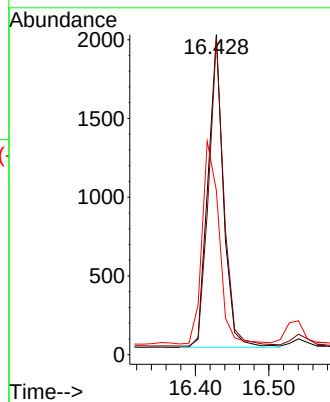
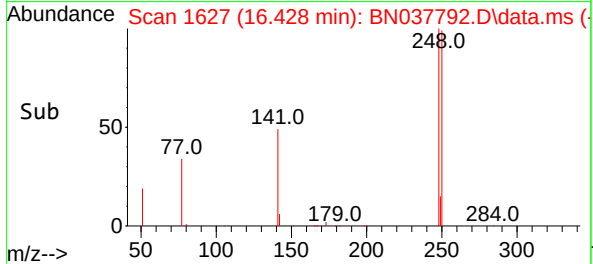
Instrument :
BNA_N
ClientSampleId :
PB169693BS



Tgt Ion:248 Resp: 289
Ion Ratio Lower Upper
248 100
250 99.0 81.5 122.3
141 51.3 30.8 46.2

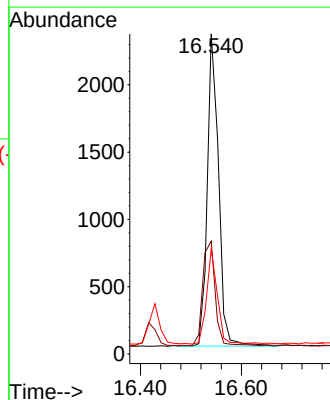
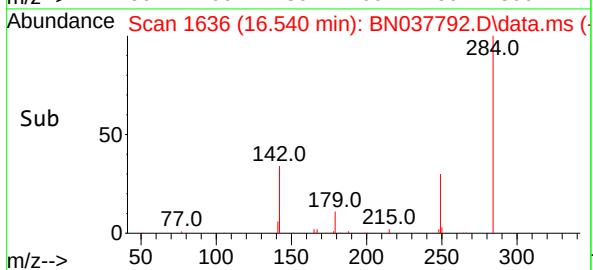
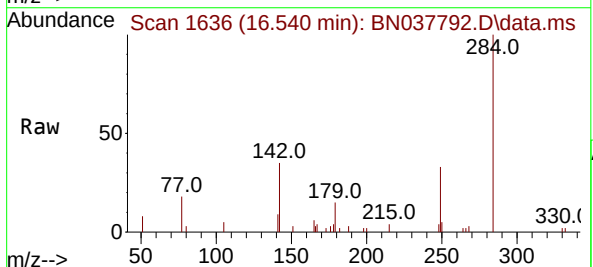
Manual Integrations
APPROVED

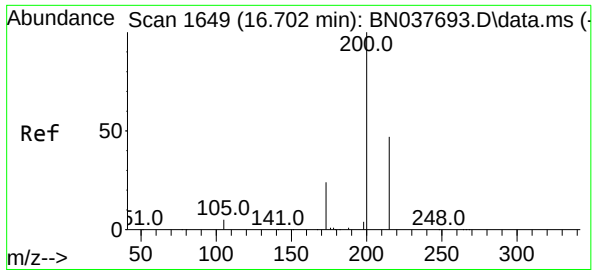
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#22
Hexachlorobenzene
Concen: 0.388 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

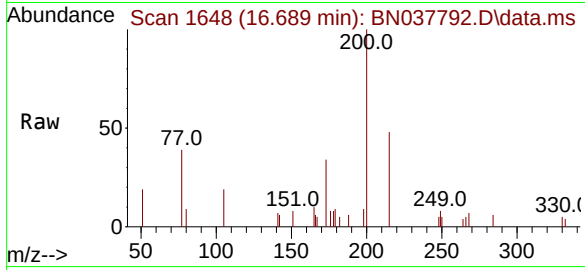
Tgt Ion:284 Resp: 3601
Ion Ratio Lower Upper
284 100
142 37.9 30.9 46.3
249 28.9 24.8 37.2





#23
Atrazine
Concen: 0.333 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

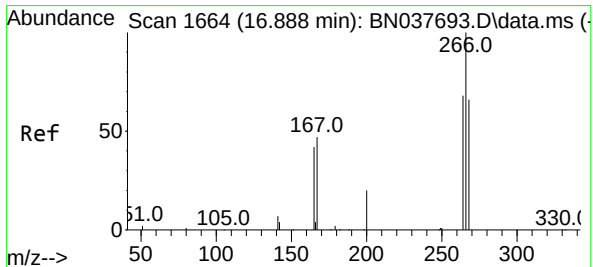
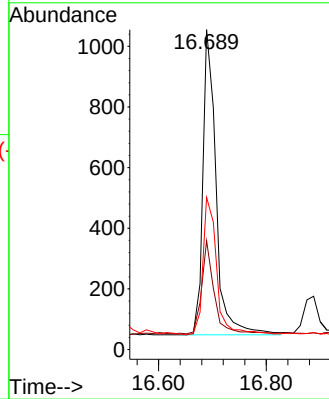
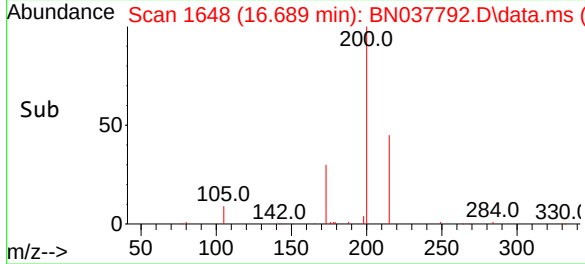
Instrument :
BNA_N
ClientSampleId :
PB169693BS



Tgt Ion:200 Resp: 1710
Ion Ratio Lower Upper
200 100
173 34.0 21.4 32.2
215 47.6 39.2 58.8

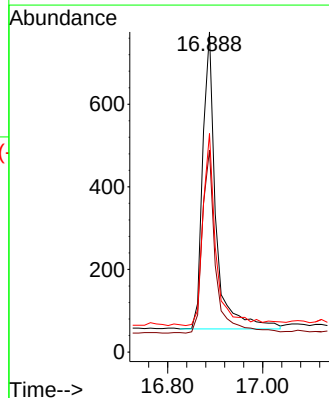
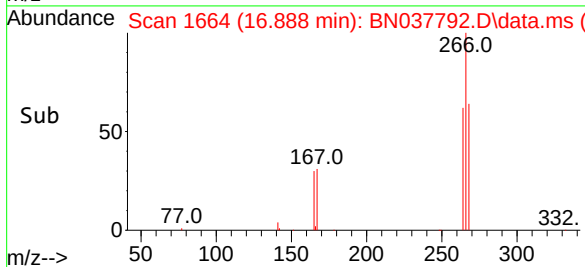
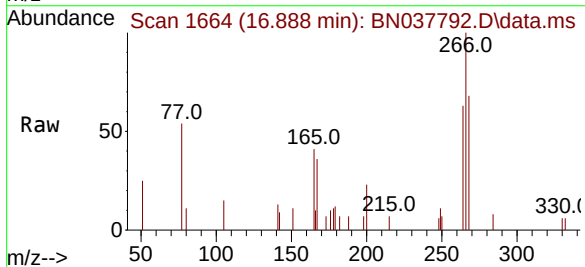
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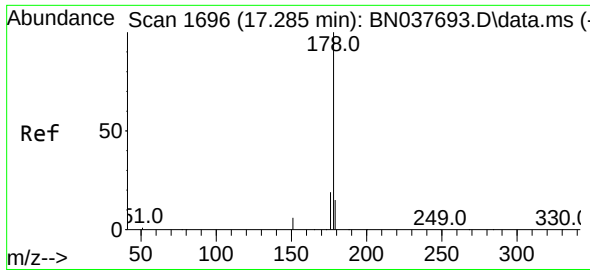
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#24
Pentachlorophenol
Concen: 0.515 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

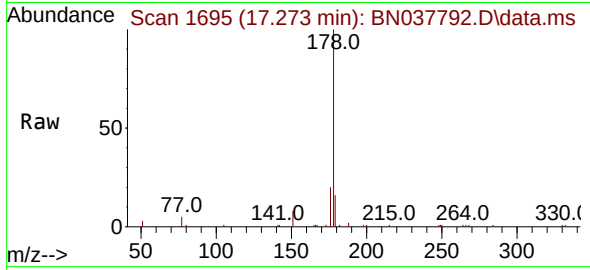
Tgt Ion:266 Resp: 1388
Ion Ratio Lower Upper
266 100
264 62.3 51.6 77.4
268 65.3 53.2 79.8





#25
Phenanthrene
Concen: 0.346 ng
RT: 17.273 min Scan# 11
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

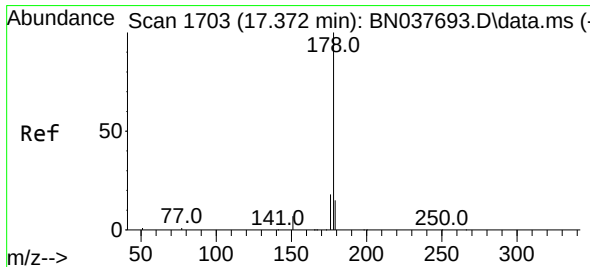
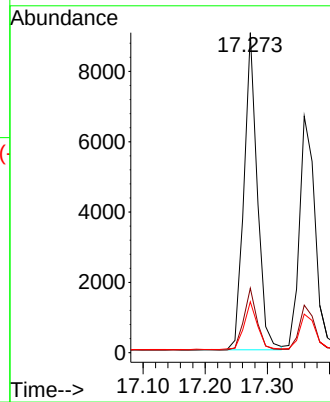
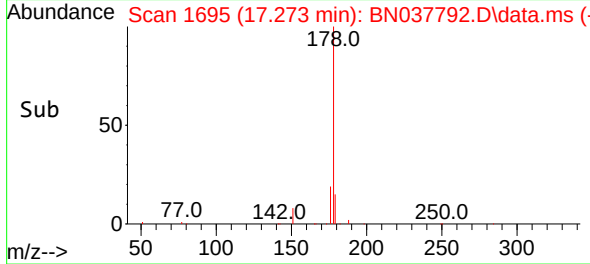
Instrument :
BNA_N
ClientSampleId :
PB169693BS



Tgt Ion:178 Resp: 1350
Ion Ratio Lower Upper
178 100
176 19.4 15.3 22.9
179 15.3 12.2 18.2

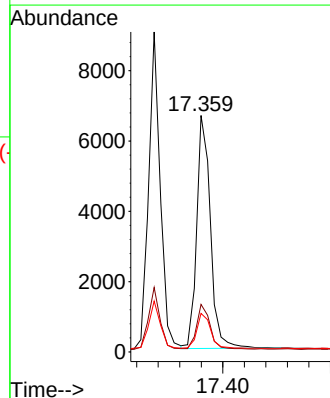
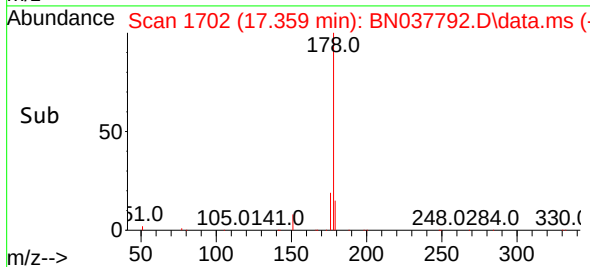
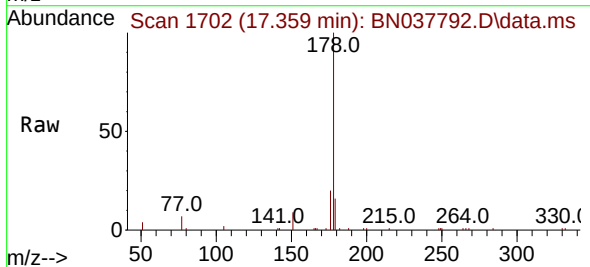
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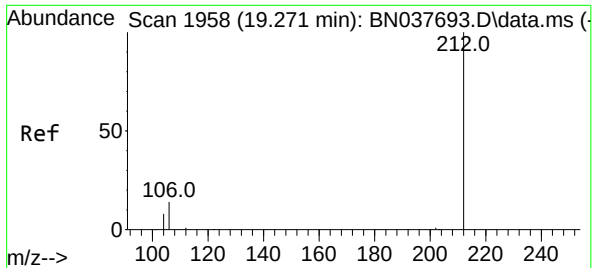
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#26
Anthracene
Concen: 0.340 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

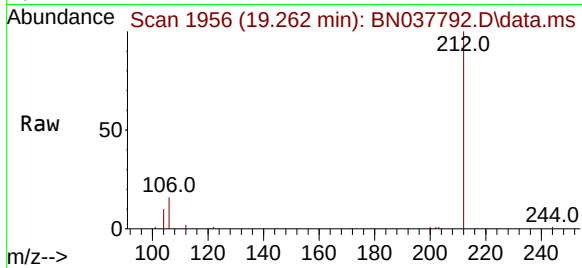
Tgt Ion:178 Resp: 11748
Ion Ratio Lower Upper
178 100
176 19.0 14.6 22.0
179 15.4 12.2 18.4





#27
Fluoranthene-d10
Concen: 0.291 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

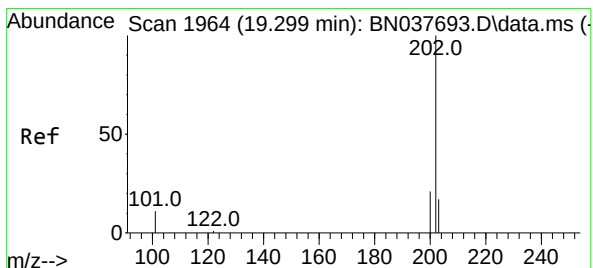
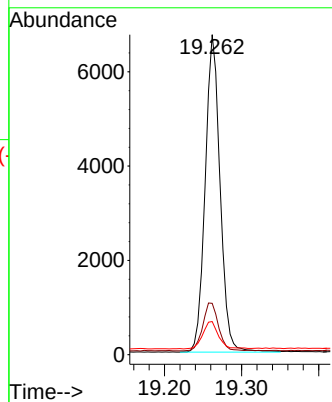
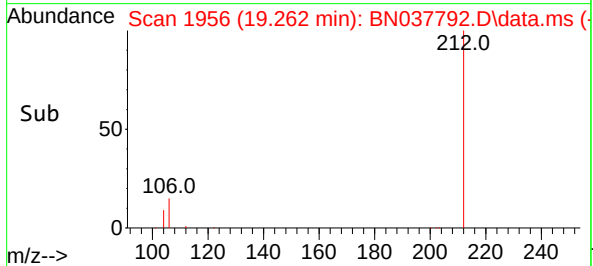
Instrument :
BNA_N
ClientSampleId :
PB169693BS



Tgt Ion:212 Resp: 9050
Ion Ratio Lower Upper
212 100
106 15.8 12.2 18.2
104 9.2 6.9 10.3

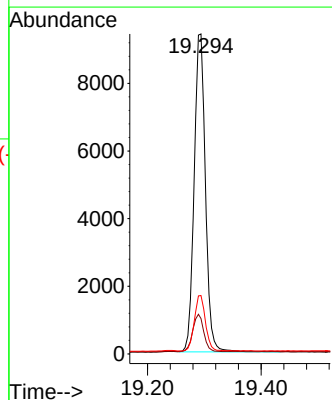
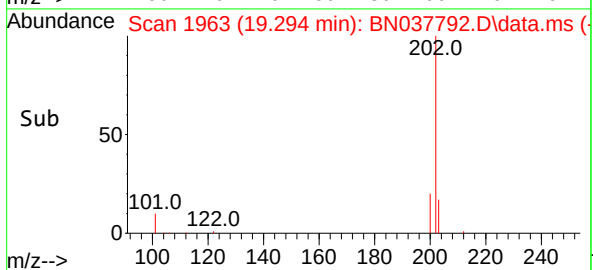
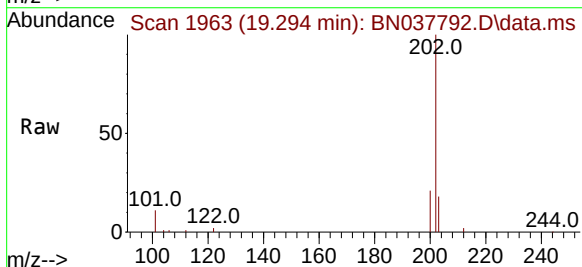
Manual Integrations
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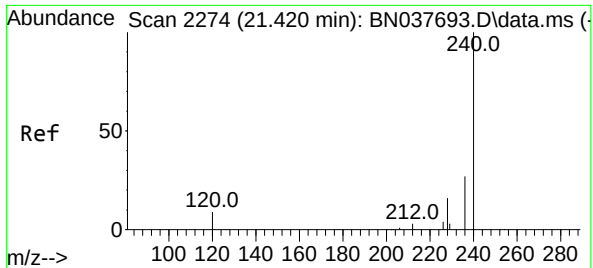
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#28
Fluoranthene
Concen: 0.302 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

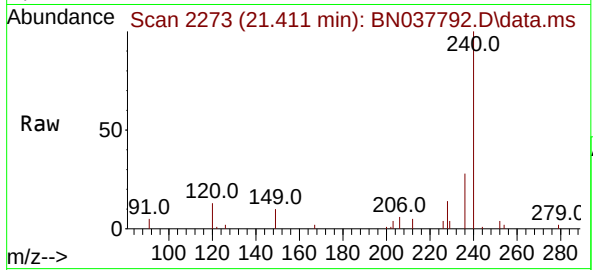
Tgt Ion:202 Resp: 12912
Ion Ratio Lower Upper
202 100
101 11.8 9.3 13.9
203 17.3 13.7 20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

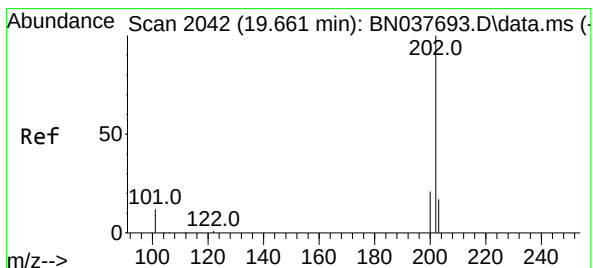
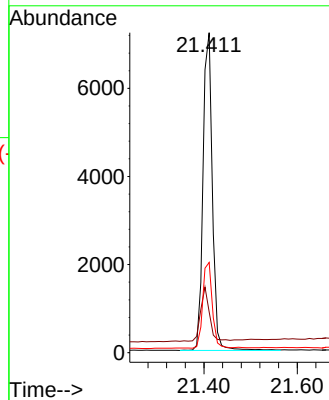
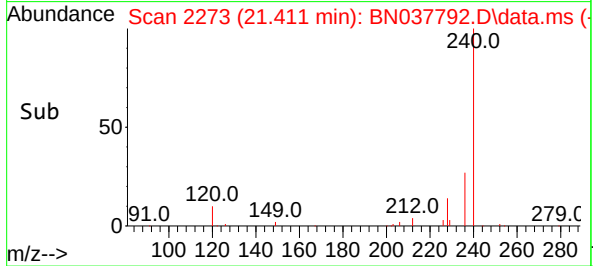
Instrument :
BNA_N
ClientSampleId :
PB169693BS



Tgt Ion:240 Resp: 1009
Ion Ratio Lower Upper
240 100
120 12.7 9.2 13.8
236 28.2 22.6 33.8

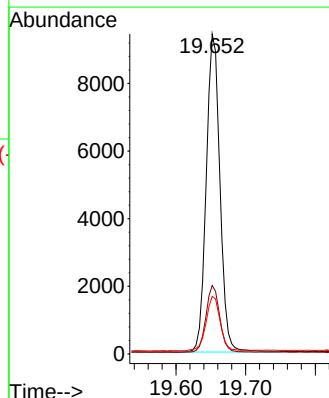
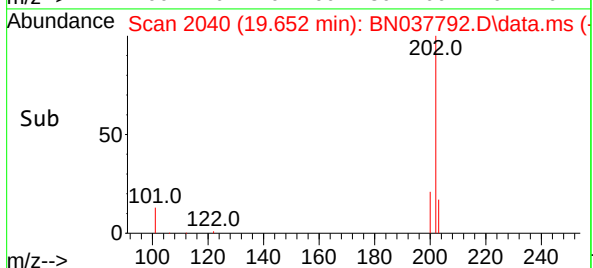
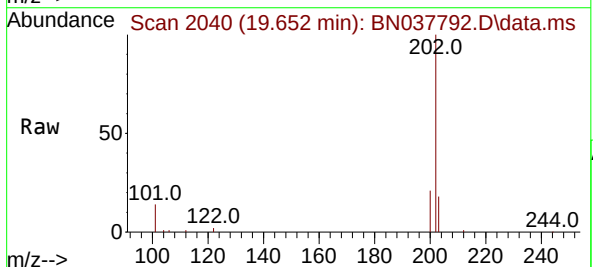
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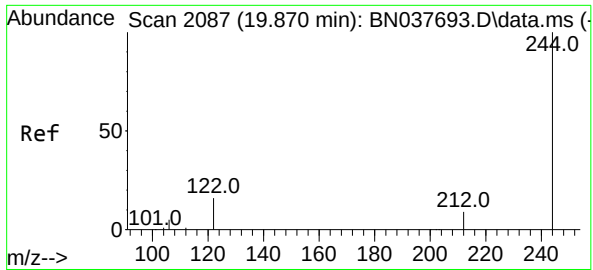
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#30
Pyrene
Concen: 0.325 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:202 Resp: 12854
Ion Ratio Lower Upper
202 100
200 21.0 16.8 25.2
203 17.5 14.3 21.5





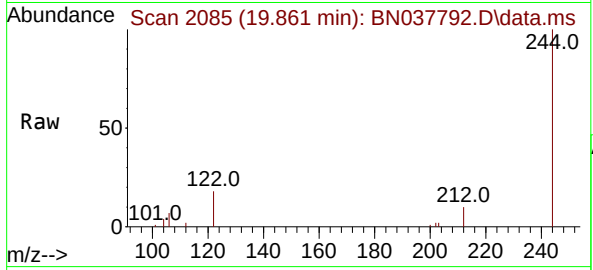
#31
Terphenyl-d14
Concen: 0.322 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :

BNA_N

ClientSampleId :

PB169693BS

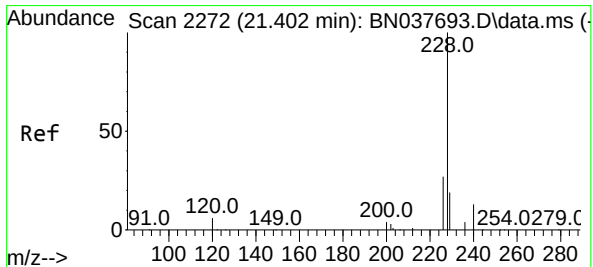
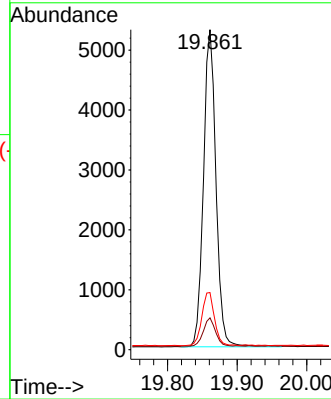
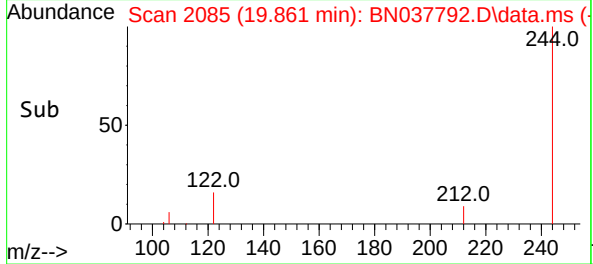


Tgt Ion:244 Resp: 659
Ion Ratio Lower Upper
244 100
212 10.0 7.5 11.3
122 17.8 13.2 19.8

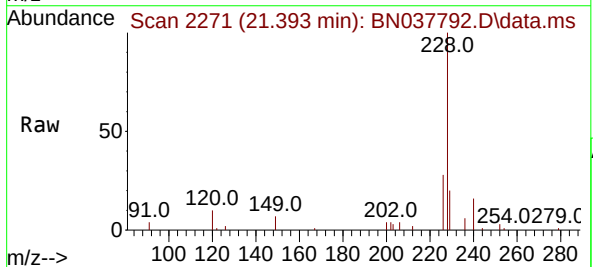
Manual Integrations

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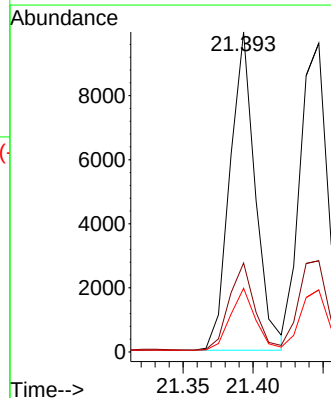
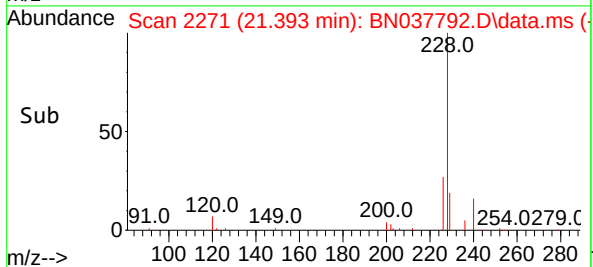
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

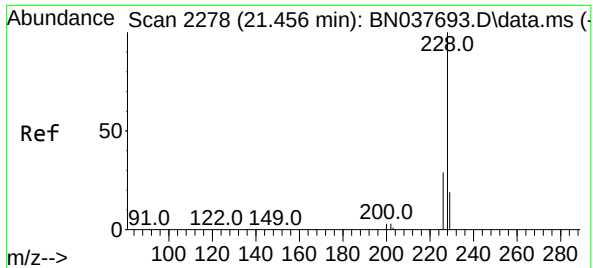


#32
Benzo(a)anthracene
Concen: 0.356 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16



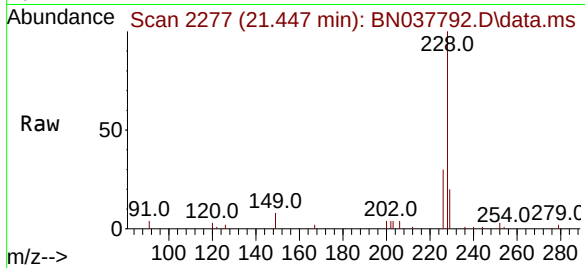
Tgt Ion:228 Resp: 12540
Ion Ratio Lower Upper
228 100
226 27.8 22.2 33.2
229 19.9 15.8 23.6





#33
Chrysene
Concen: 0.359 ng
RT: 21.447 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

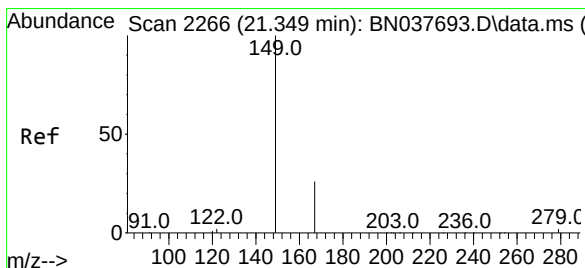
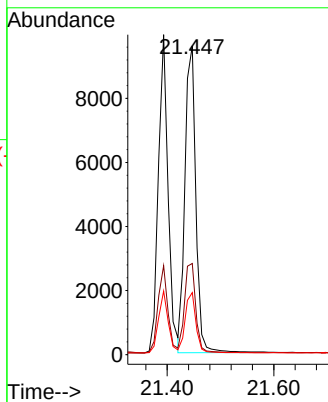
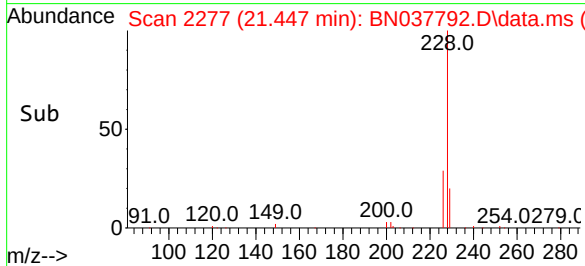
Instrument :
BNA_N
ClientSampleId :
PB169693BS



Tgt Ion:228 Resp: 1356
Ion Ratio Lower Upper
228 100
226 29.5 23.5 35.3
229 20.1 15.9 23.9

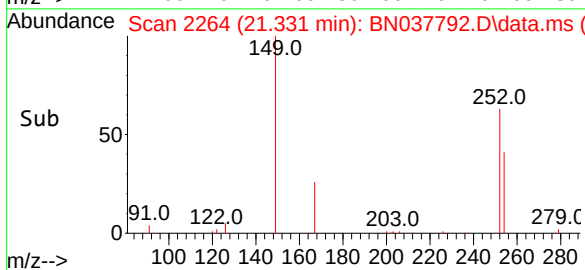
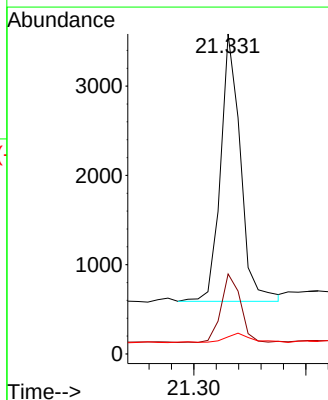
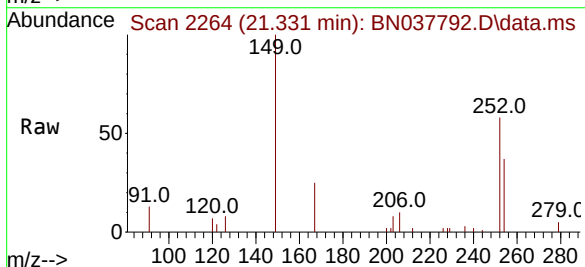
Manual Integrations
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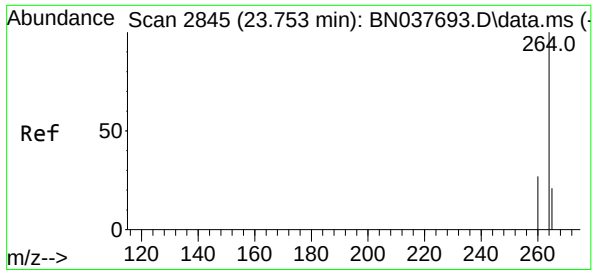
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.355 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

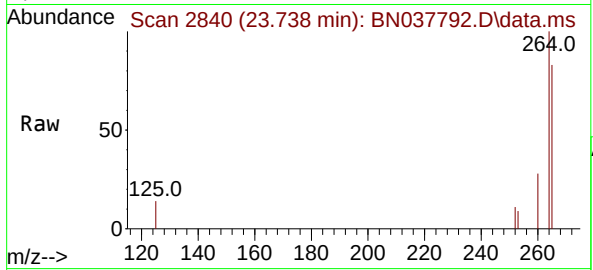
Tgt Ion:149 Resp: 3708
Ion Ratio Lower Upper
149 100
167 25.0 20.8 31.2
279 4.3 3.3 4.9





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.738 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

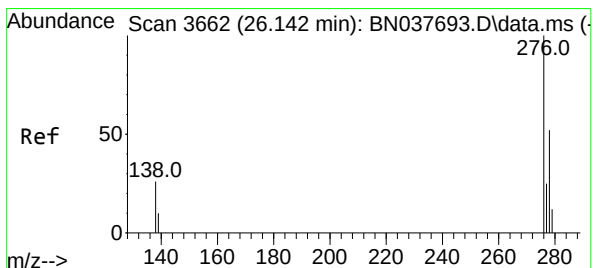
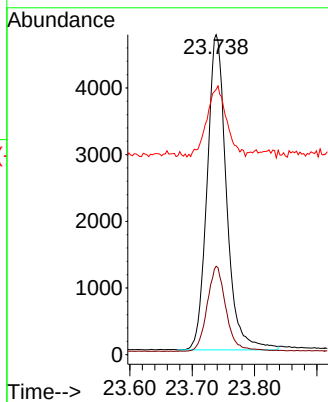
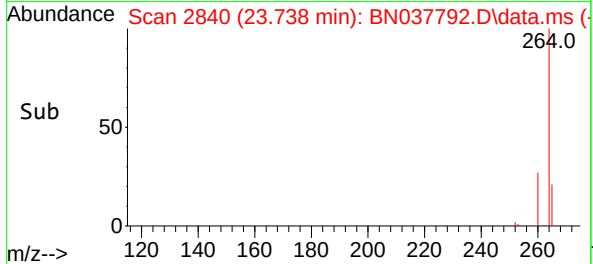
Instrument :
BNA_N
ClientSampleId :
PB169693BS



Tgt Ion:264 Resp: 10200
Ion Ratio Lower Upper
264 100
260 27.6 21.8 32.8
265 82.9 39.4 59.2

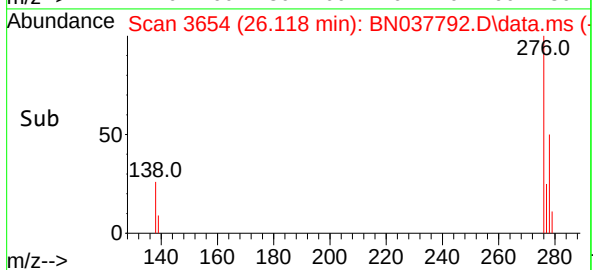
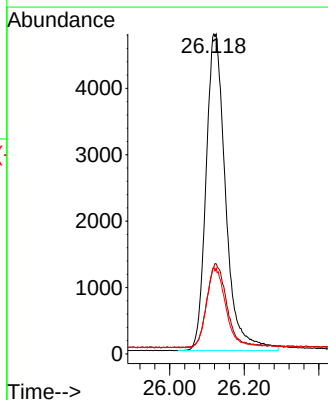
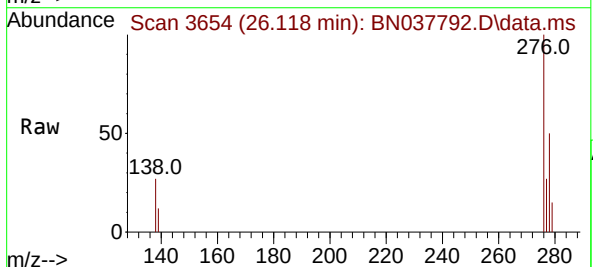
Manual Integrations
APPROVED

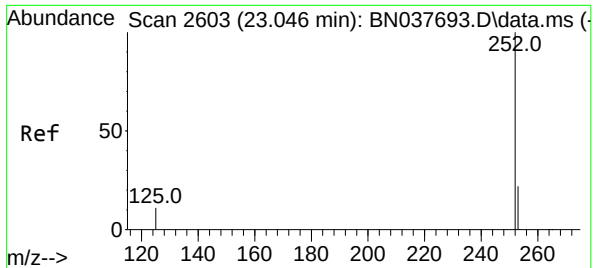
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.407 ng
RT: 26.118 min Scan# 3654
Delta R.T. -0.024 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

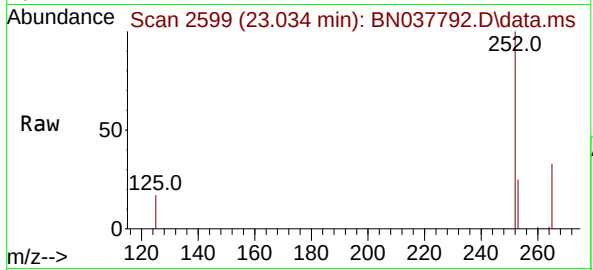
Tgt Ion:276 Resp: 17423
Ion Ratio Lower Upper
276 100
138 27.0 21.9 32.9
277 25.2 20.1 30.1





#37
Benzo(b)fluoranthene
Concen: 0.372 ng
RT: 23.034 min Scan# 2599
Delta R.T. -0.012 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

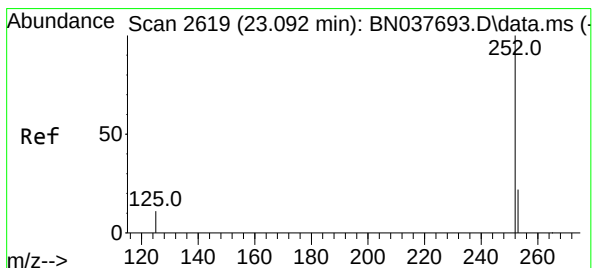
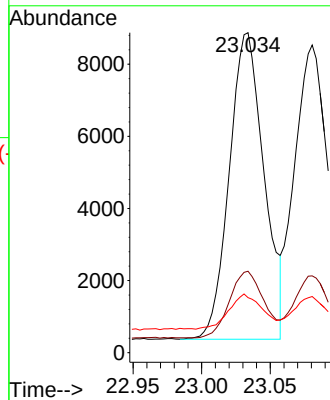
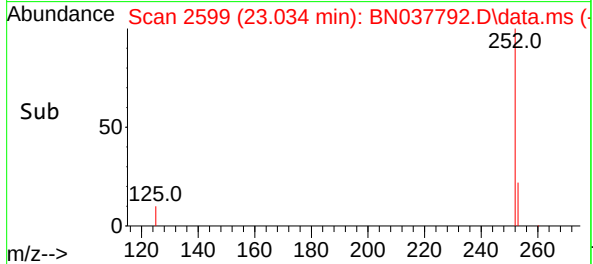
Instrument :
BNA_N
ClientSampleId :
PB169693BS



Tgt Ion:252 Resp: 1495
Ion Ratio Lower Upper
252 100
253 25.5 19.4 29.2
125 17.2 11.2 16.8

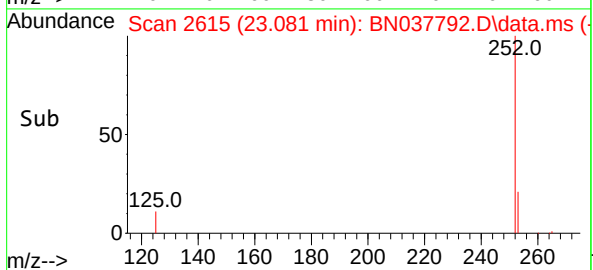
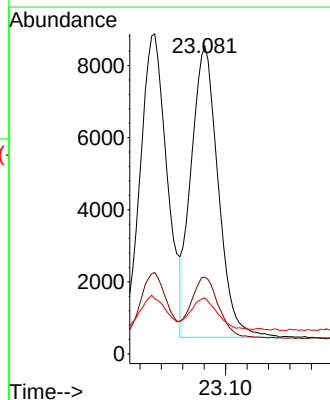
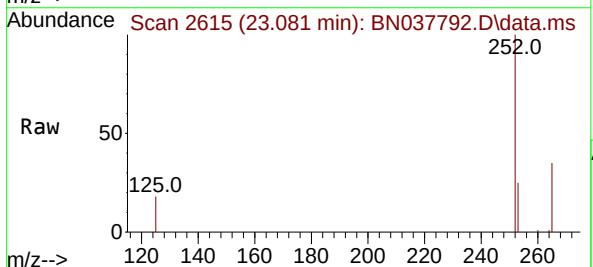
Manual Integrations
APPROVED

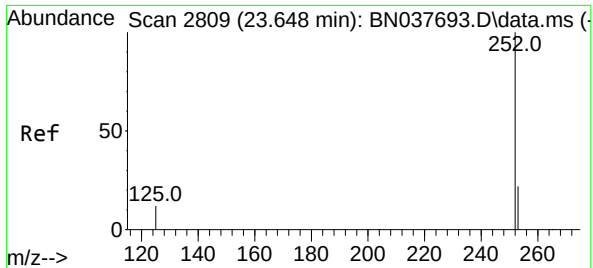
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#38
Benzo(k)fluoranthene
Concen: 0.348 ng m
RT: 23.081 min Scan# 2615
Delta R.T. -0.012 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:252 Resp: 14241
Ion Ratio Lower Upper
252 100
253 25.0 19.4 29.0
125 18.3 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.395 ng

RT: 23.633 min Scan# 2804

Delta R.T. -0.015 min

Lab File: BN037792.D

Acq: 19 Sep 2025 00:16

Instrument :

BNA_N

ClientSampleId :

PB169693BS

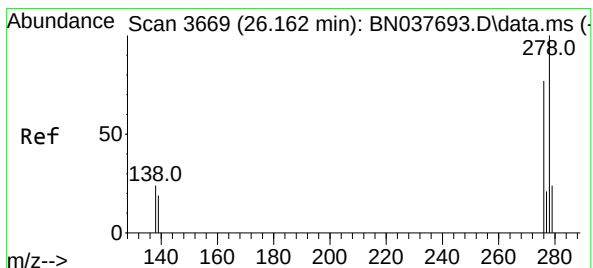
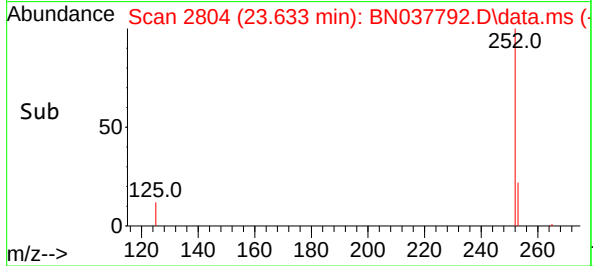
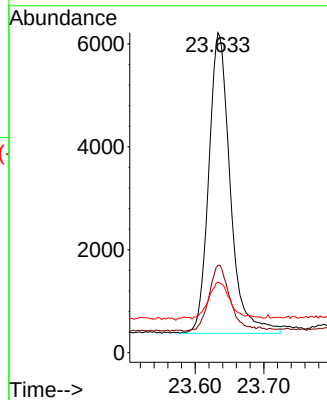
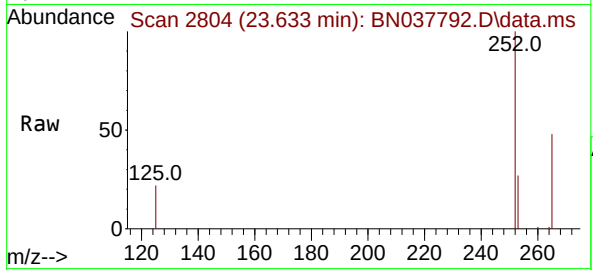
Tgt Ion:	252	Resp:	12714
Ion Ratio	Lower	Upper	
252	100		
253	27.3	20.8	31.2
125	22.1	13.9	20.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/19/2025

Supervised By :mohammad ahmed 09/23/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.394 ng

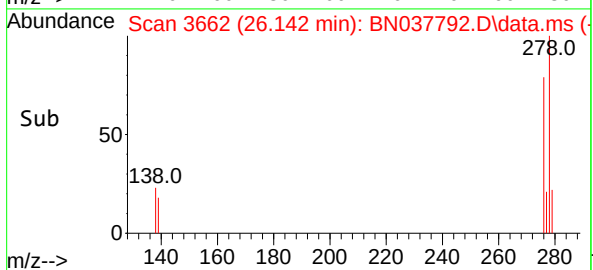
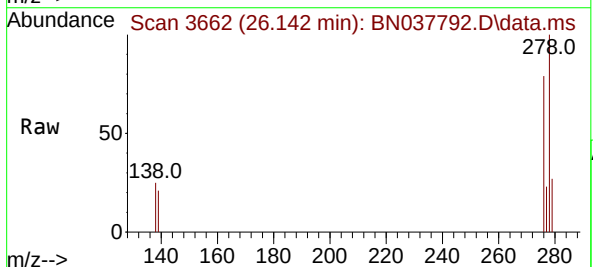
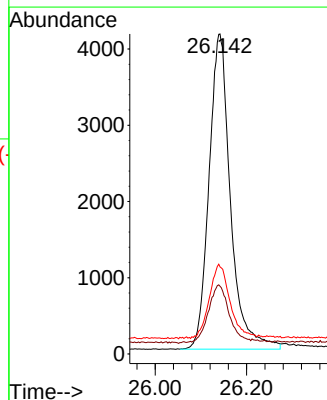
RT: 26.142 min Scan# 3662

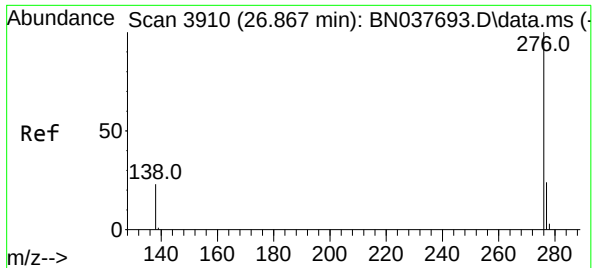
Delta R.T. -0.021 min

Lab File: BN037792.D

Acq: 19 Sep 2025 00:16

Tgt Ion:	278	Resp:	13475
Ion Ratio	Lower	Upper	
278	100		
139	21.2	17.8	26.6
279	27.2	22.0	33.0





#41

Benzo(g,h,i)perylene

Concen: 0.398 ng

RT: 26.843 min Scan# 3910

Delta R.T. -0.024 min

Lab File: BN037792.D

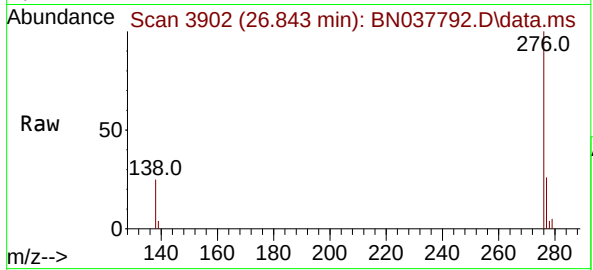
Acq: 19 Sep 2025 00:16

Instrument :

BNA_N

ClientSampleId :

PB169693BS



Tgt Ion:276 Resp: 1527

Ion Ratio Lower Upper

276 100

277 25.6 20.6 31.0

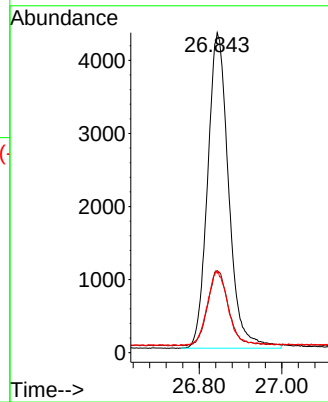
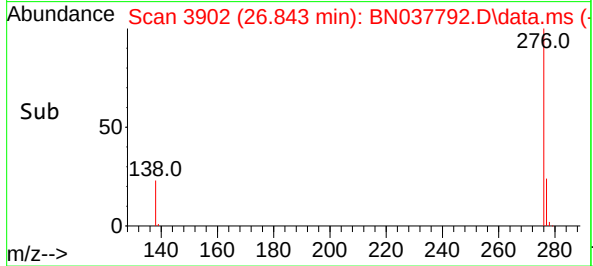
138 24.8 20.2 30.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/19/2025

Supervised By :mohammad ahmed 09/23/2025



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	MW203D2-20250909MS	SDG No.:	Q3095
Lab Sample ID:	Q3095-06MS	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
BN037743.D	1	09/15/25 10:15	09/17/25 13:14	PB169692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.97		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		83%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		79%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		99%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6850	7.84				
1146-65-2	Naphthalene-d8	19000	10.637				
15067-26-2	Acenaphthene-d10	8820	14.494				
1517-22-2	Phenanthrene-d10	15300	17.235				
1719-03-5	Chrysene-d12	13100	21.42				
1520-96-3	Perylene-d12	12800	23.75				

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\BN091725\
 Data File : BN037743.D
 Acq On : 17 Sep 2025 13:14
 Operator : RC/JU
 Sample : Q3095-06MS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW203D2-20250909MS

Quant Time: Sep 17 13:42:11 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

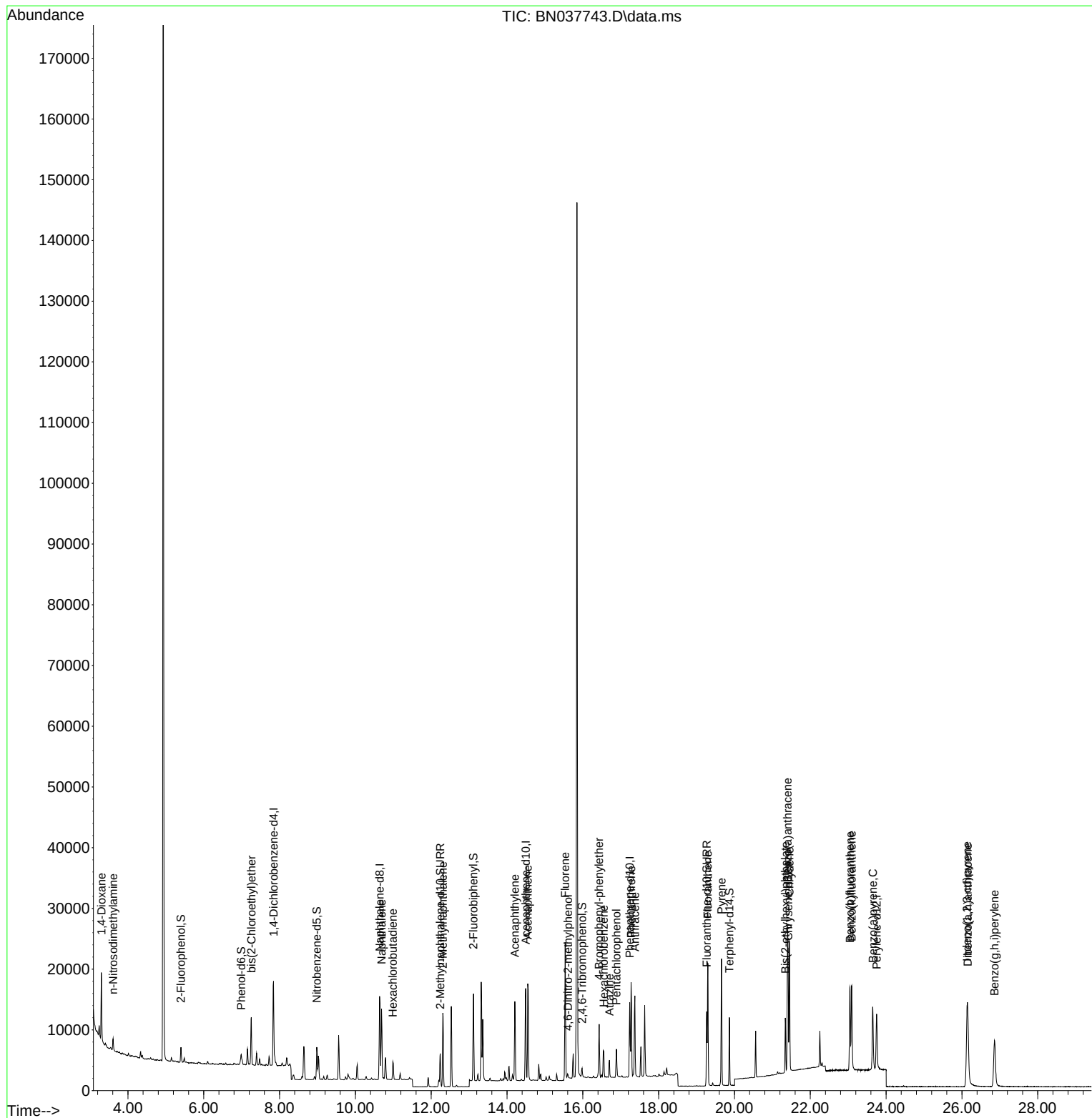
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	6853	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	18950	0.400	ng	-0.01
13) Acenaphthene-d10	14.494	164	8815	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	15289	0.400	ng	# 0.00
29) Chrysene-d12	21.420	240	13059	0.400	ng	0.00
35) Perylene-d12	23.750	264	12757	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	1957	0.124	ng	0.00
5) Phenol-d6	6.988	99	1524	0.075	ng	0.00
8) Nitrobenzene-d5	8.982	82	4126	0.298	ng	-0.01
11) 2-Methylnaphthalene-d10	12.238	152	7246	0.289	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	893	0.388	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	11665	0.316	ng	0.00
27) Fluoranthene-d10	19.266	212	12832	0.334	ng	0.00
31) Terphenyl-d14	19.866	244	10504	0.396	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.304	88	6956	0.974	ng	96
3) n-Nitrosodimethylamine	3.608	42	1104	0.118	ng	# 82
6) bis(2-Chloroethyl)ether	7.255	93	5688	0.312	ng	98
9) Naphthalene	10.690	128	15015	0.290	ng	100
10) Hexachlorobutadiene	10.989	225	2320	0.248	ng	# 100
12) 2-Methylnaphthalene	12.309	142	8655	0.270	ng	100
16) Acenaphthylene	14.206	152	13728	0.340	ng	100
17) Acenaphthene	14.548	154	8639	0.316	ng	99
18) Fluorene	15.535	166	10553	0.319	ng	98
20) 4,6-Dinitro-2-methylph...	15.609	198	499	0.352	ng	91
21) 4-Bromophenyl-phenylether	16.429	248	3460	0.347	ng	# 76
22) Hexachlorobenzene	16.553	284	4115	0.359	ng	96
23) Atrazine	16.702	200	2391	0.377	ng	98
24) Pentachlorophenol	16.888	266	2467	0.741	ng	97
25) Phenanthrene	17.273	178	17307	0.360	ng	100
26) Anthracene	17.372	178	15375	0.361	ng	100
28) Fluoranthene	19.294	202	18462	0.350	ng	99
30) Pyrene	19.657	202	18552	0.363	ng	100
32) Benzo(a)anthracene	21.402	228	17427	0.383	ng	99
33) Chrysene	21.447	228	18053	0.370	ng	98
34) Bis(2-ethylhexyl)phtha...	21.339	149	8669	0.642	ng	100
36) Indeno(1,2,3-cd)pyrene	26.136	276	20862	0.389	ng	98
37) Benzo(b)fluoranthene	23.046	252	18402	0.366	ng	99
38) Benzo(k)fluoranthene	23.092	252	18793	0.367	ng	99
39) Benzo(a)pyrene	23.648	252	16200	0.403	ng	99
40) Dibenzo(a,h)anthracene	26.156	278	16551	0.387	ng	97
41) Benzo(g,h,i)perylene	26.858	276	17872	0.372	ng	98

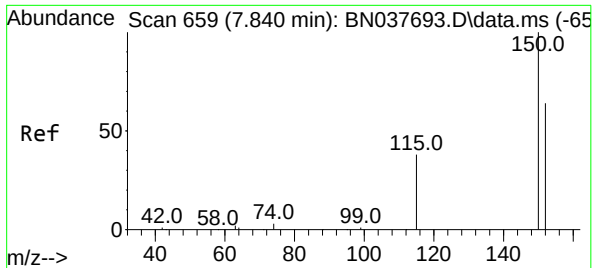
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037743.D
Acq On : 17 Sep 2025 13:14
Operator : RC/JU
Sample : Q3095-06MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MS

Quant Time: Sep 17 13:42:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

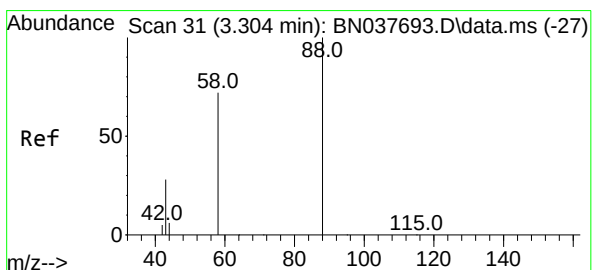
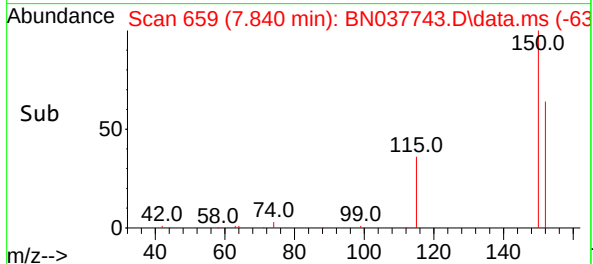
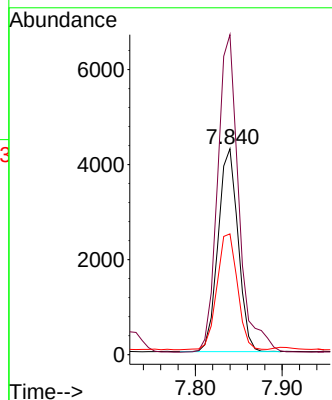
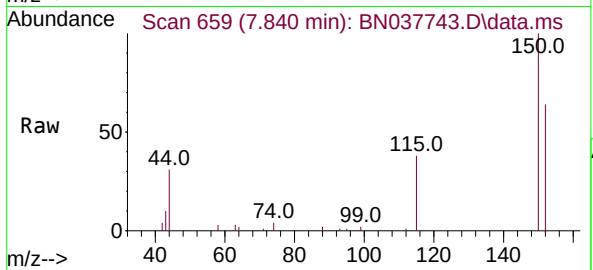




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

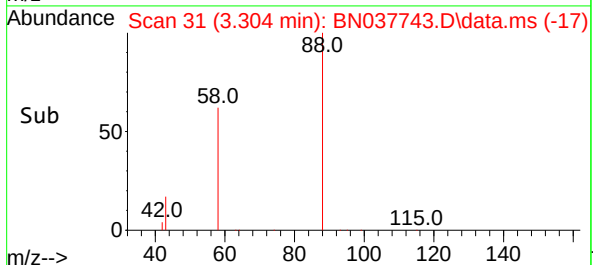
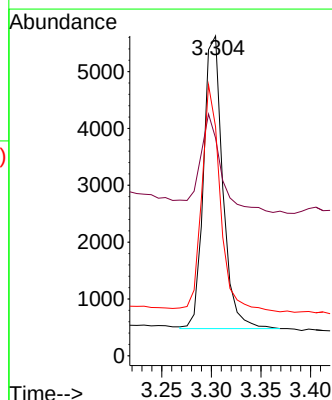
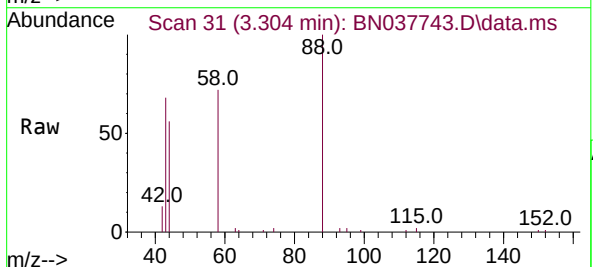
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MS

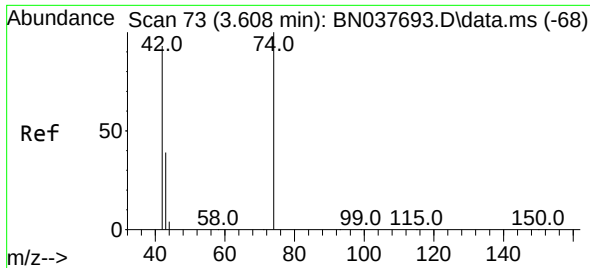
Tgt Ion:152 Resp: 6853
Ion Ratio Lower Upper
152 100
150 155.4 124.5 186.7
115 58.6 49.2 73.8



#2
1,4-Dioxane
Concen: 0.974 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion: 88 Resp: 6956
Ion Ratio Lower Upper
88 100
43 36.8 26.8 40.2
58 75.0 61.9 92.9

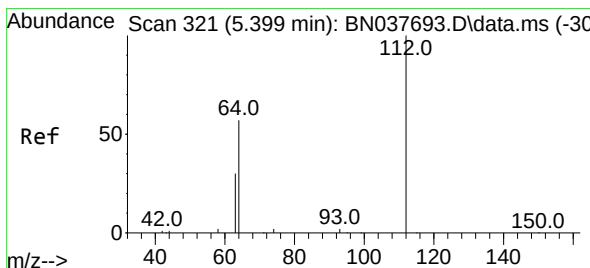
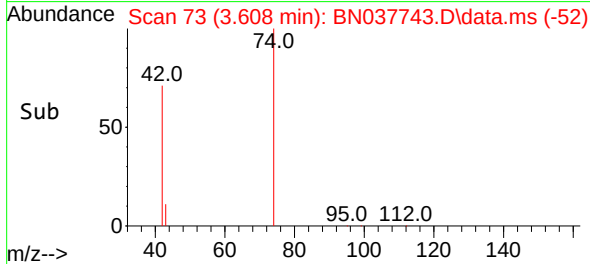
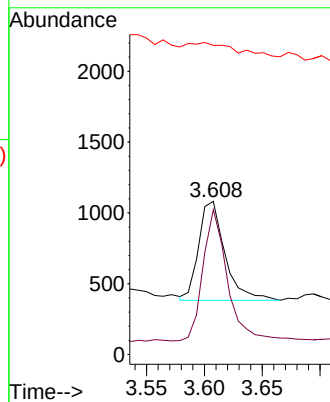
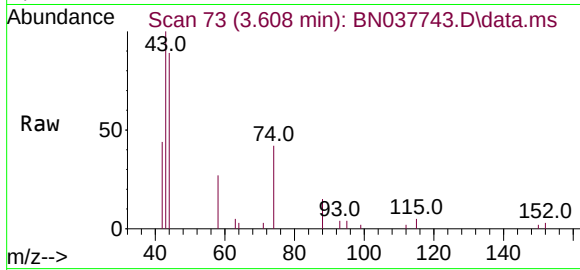




#3
n-Nitrosodimethylamine
Concen: 0.118 ng
RT: 3.608 min Scan# 73
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

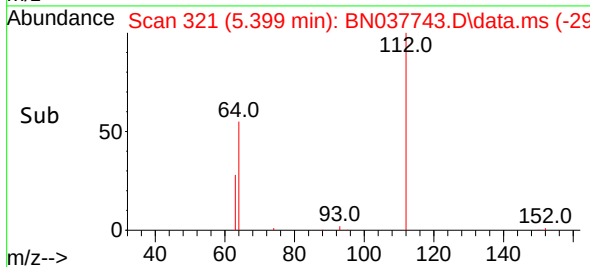
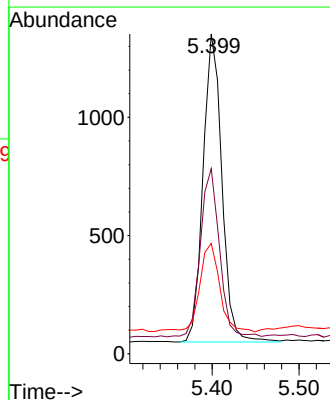
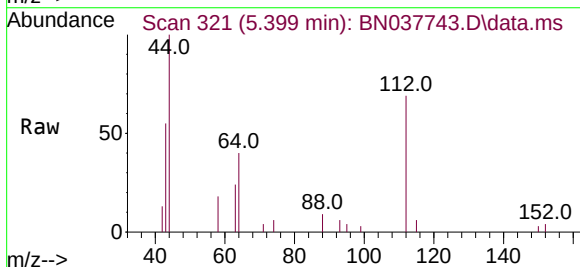
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MS

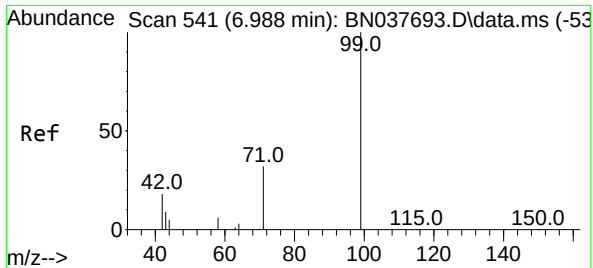
Tgt Ion: 42 Resp: 1104
Ion Ratio Lower Upper
42 100
74 124.7 86.0 129.0
44 0.0 8.4 12.6#



#4
2-Fluorophenol
Concen: 0.124 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion: 112 Resp: 1957
Ion Ratio Lower Upper
112 100
64 55.1 44.9 67.3
63 30.7 24.7 37.1

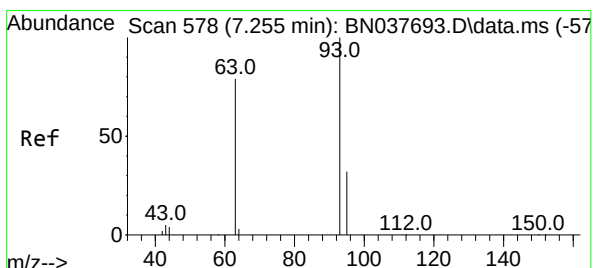
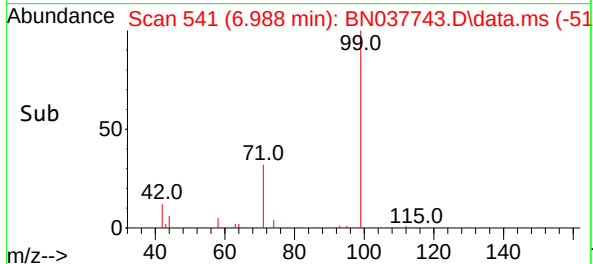
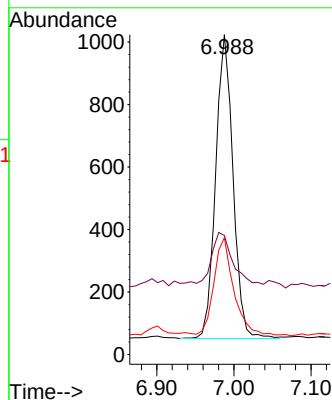
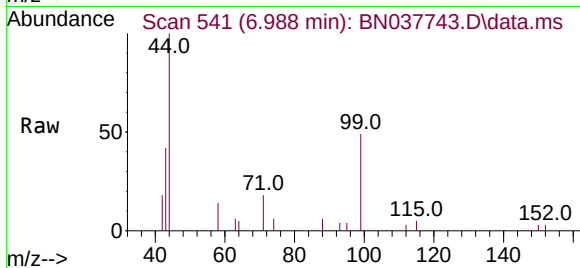




#5
Phenol-d6
Concen: 0.075 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

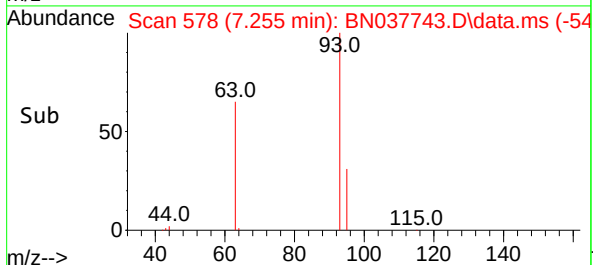
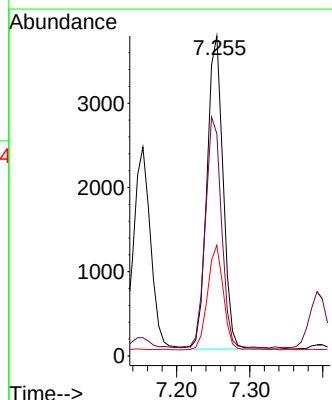
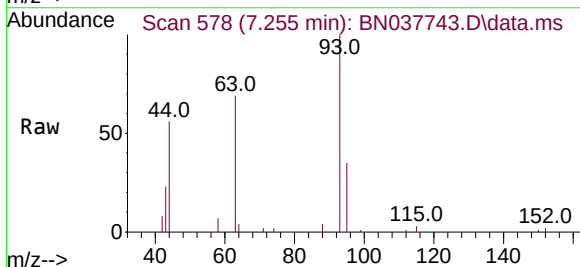
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MS

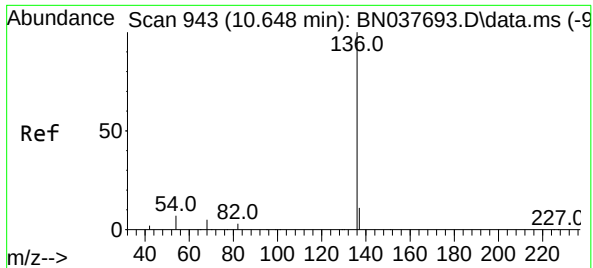
Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.7	16.6	24.8
71	37.3	26.7	40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.312 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion	Ratio	Lower	Upper
93	100		
63	74.0	60.6	90.8
95	32.9	26.0	39.0

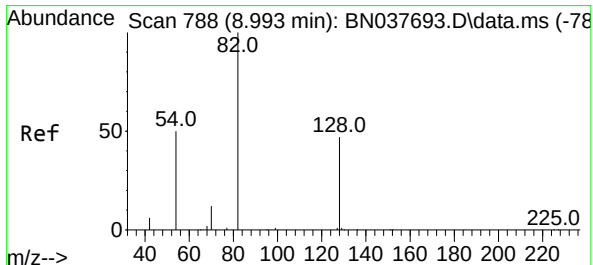
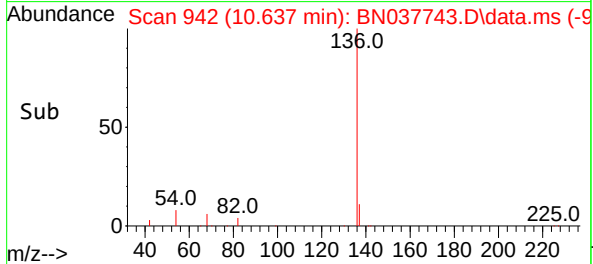
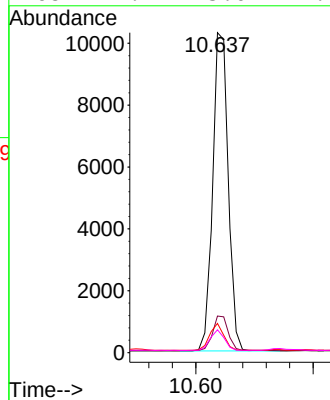
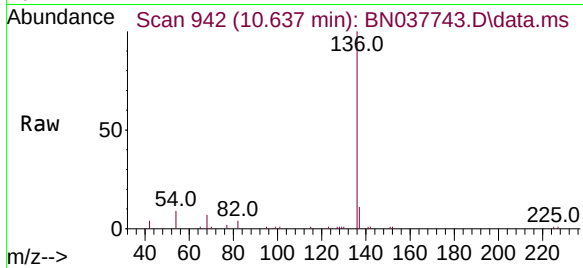




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

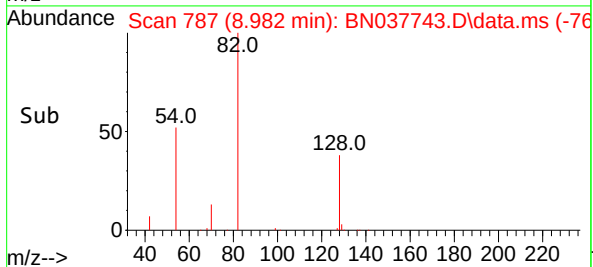
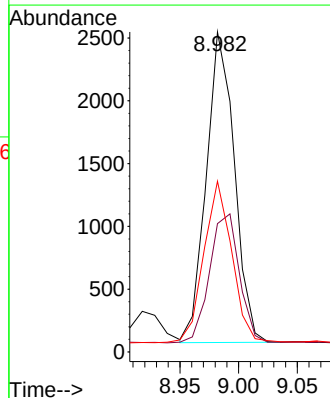
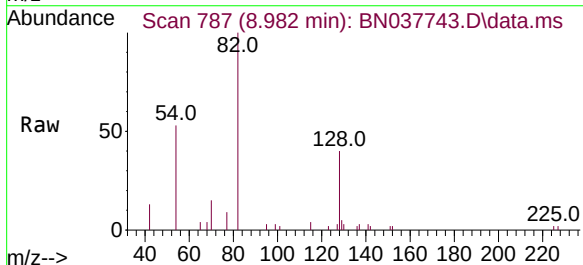
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MS

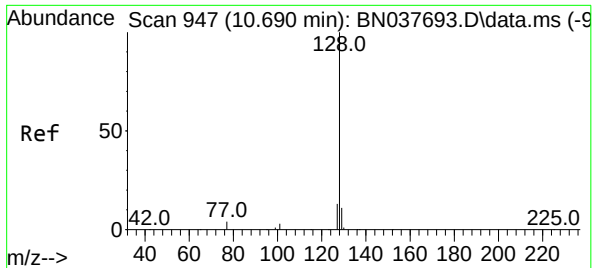
Tgt Ion:	136	Resp:	18950
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	9.2	6.3	9.5
68	7.1	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.298 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion:	82	Resp:	4126
Ion	Ratio	Lower	Upper
82	100		
128	40.1	38.3	57.5
54	53.4	41.4	62.2

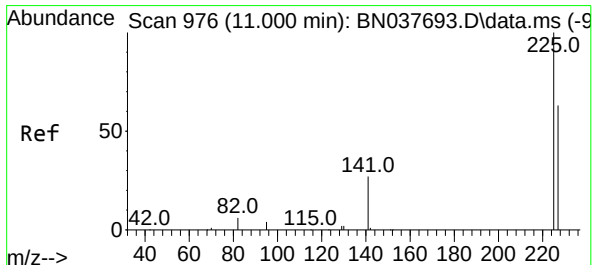
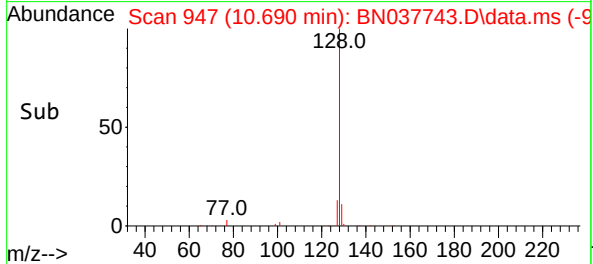
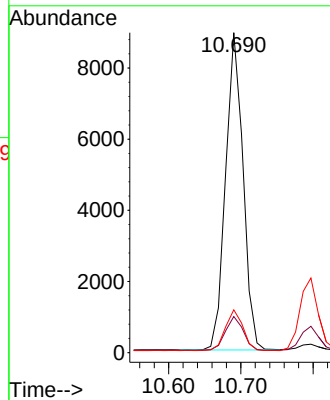
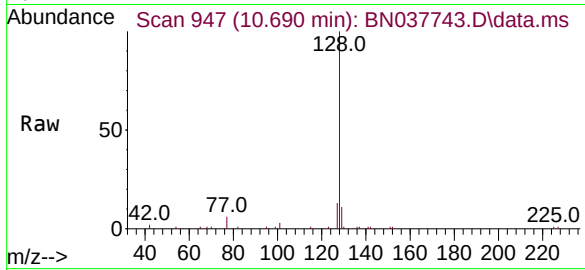




#9
Naphthalene
Concen: 0.290 ng
RT: 10.690 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

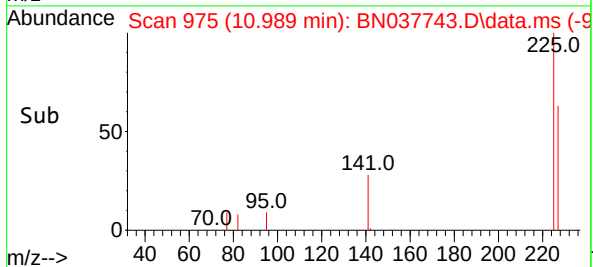
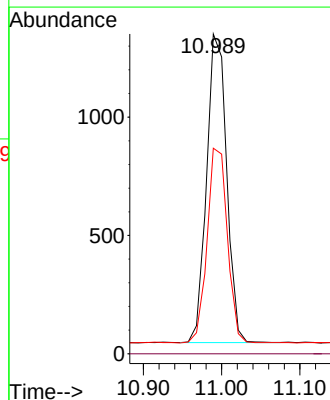
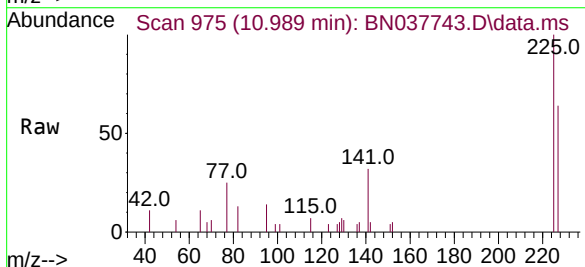
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MS

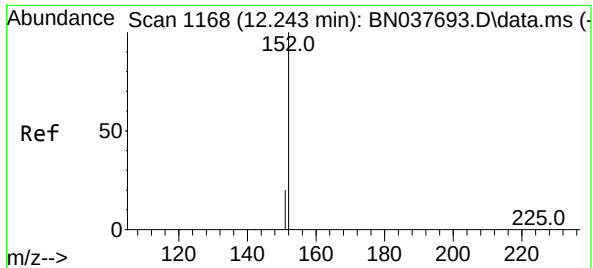
Tgt Ion:	128	Resp:	15015
Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.1	13.7
127	13.4	10.9	16.3



#10
Hexachlorobutadiene
Concen: 0.248 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion:	225	Resp:	2320
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	50.9	76.3

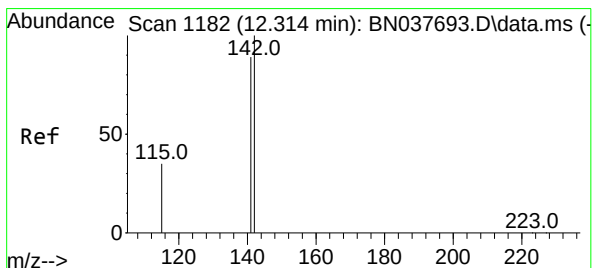
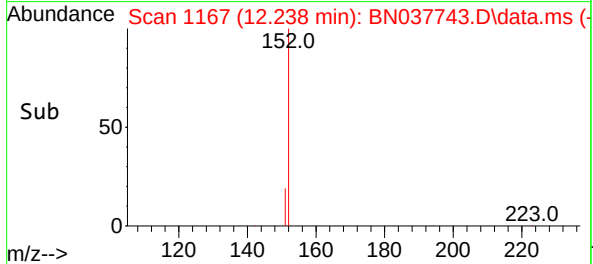
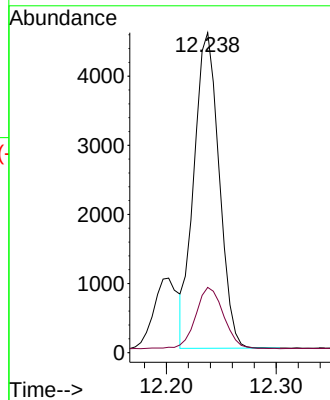
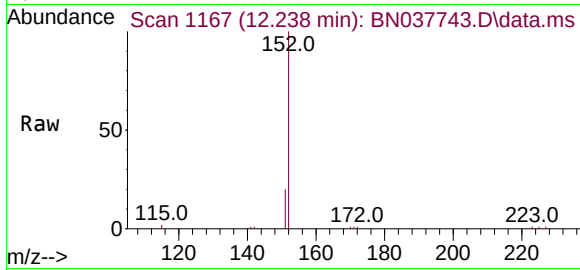




#11
2-Methylnaphthalene-d10
Concen: 0.289 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

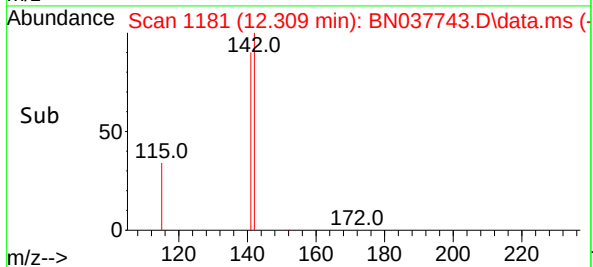
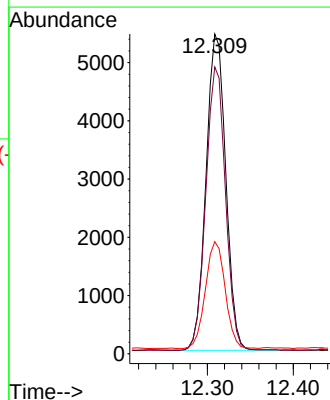
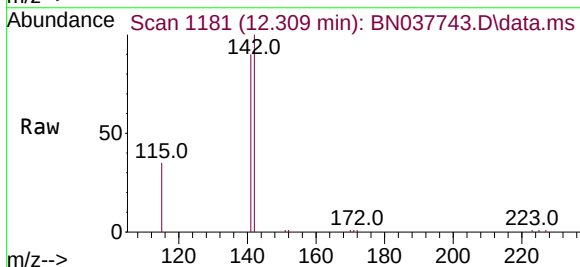
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MS

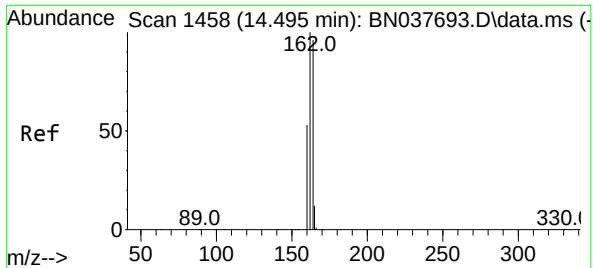
Tgt Ion:152 Resp: 7246
Ion Ratio Lower Upper
152 100
151 21.6 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.270 ng
RT: 12.309 min Scan# 1181
Delta R.T. -0.005 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion:142 Resp: 8655
Ion Ratio Lower Upper
142 100
141 89.7 71.6 107.4
115 35.1 28.6 43.0

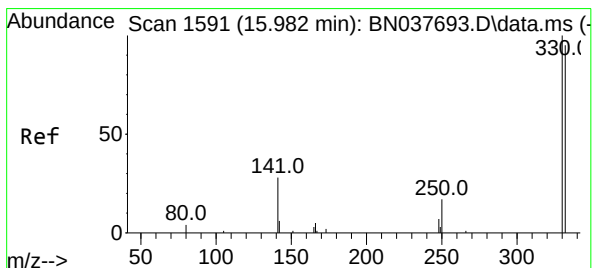
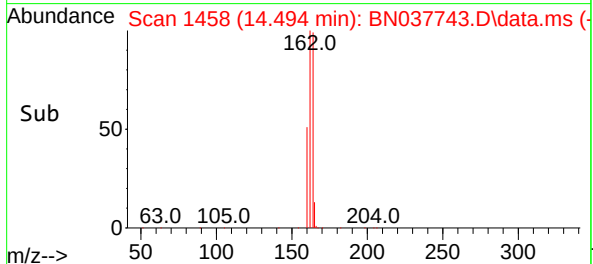
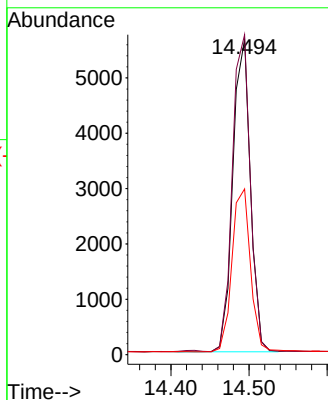
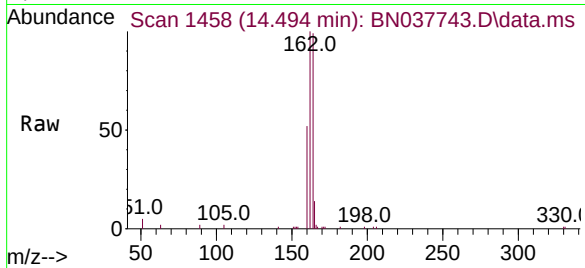




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

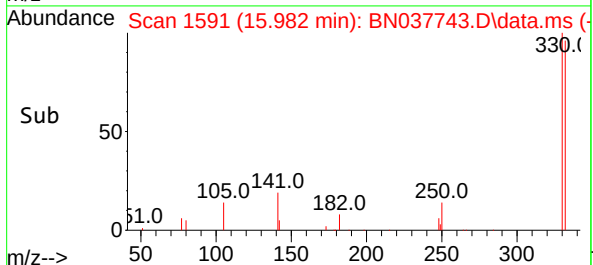
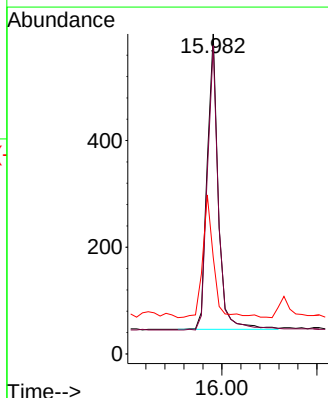
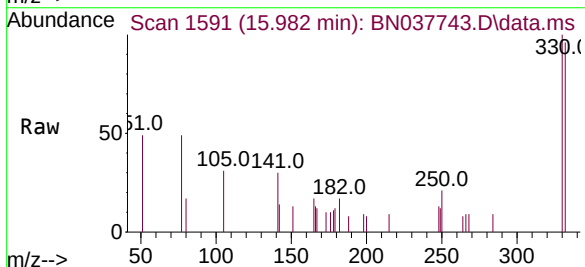
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MS

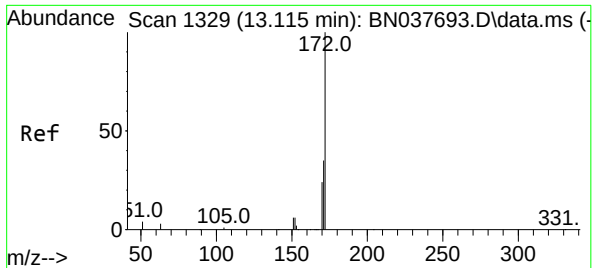
Tgt Ion:164 Resp: 8815
Ion Ratio Lower Upper
164 100
162 101.4 83.1 124.7
160 52.5 44.3 66.5



#14
2,4,6-Tribromophenol
Concen: 0.388 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion:330 Resp: 893
Ion Ratio Lower Upper
330 100
332 96.6 75.3 112.9
141 40.9 35.0 52.4

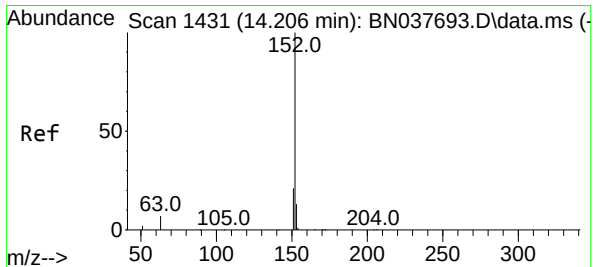
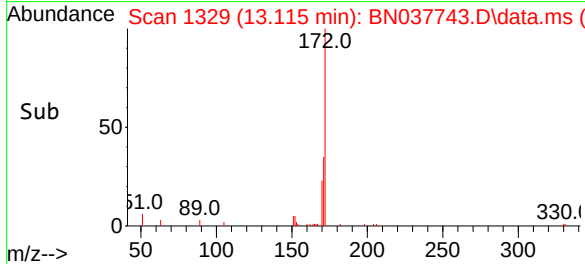
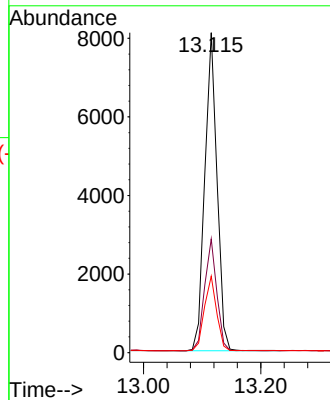
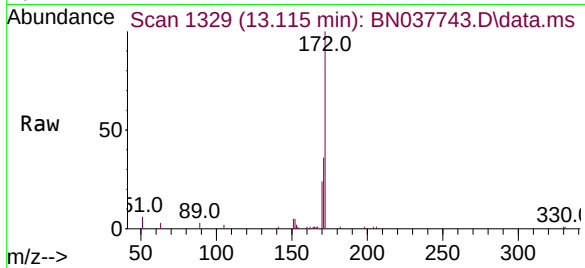




#15
2-Fluorobiphenyl
Concen: 0.316 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

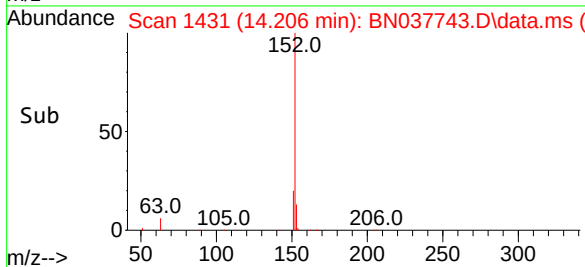
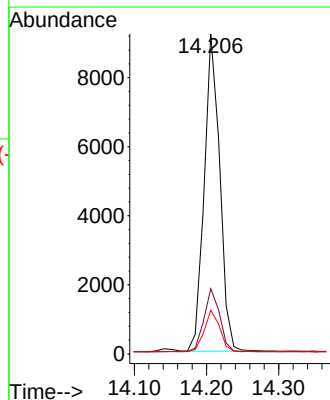
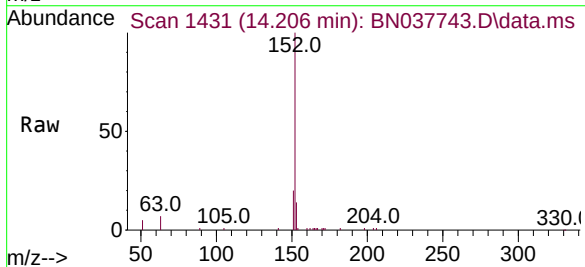
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MS

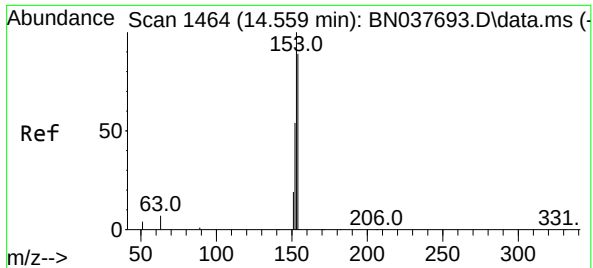
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.6	43.0
170	23.9	19.8	29.8



#16
Acenaphthylene
Concen: 0.340 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.2
153	13.1	10.4	15.6

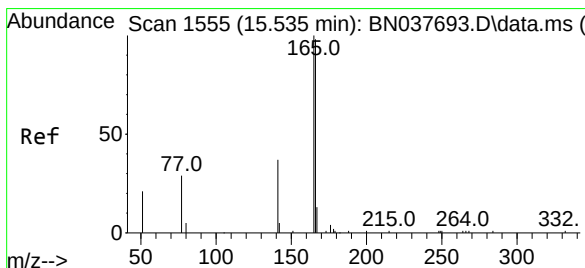
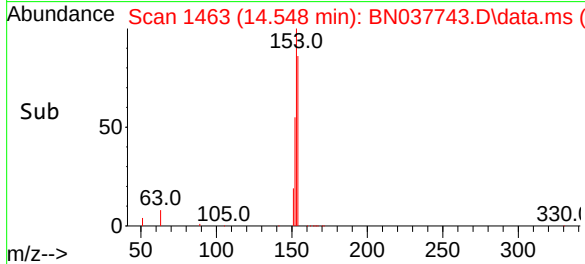
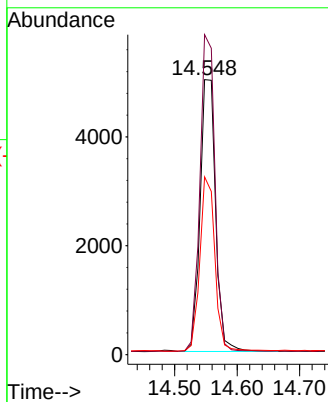
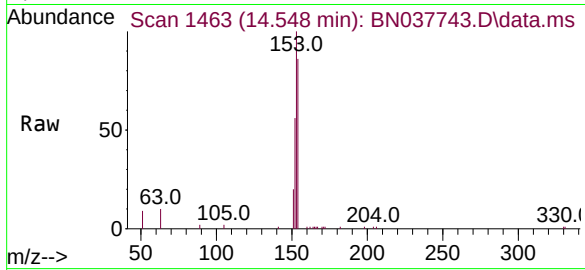




#17
Acenaphthene
Concen: 0.316 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

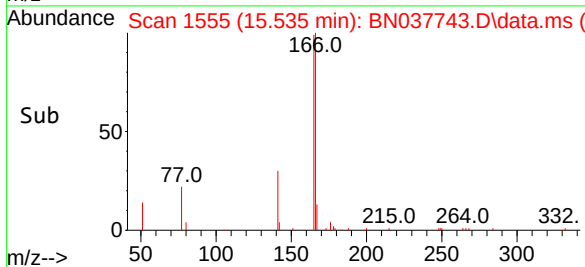
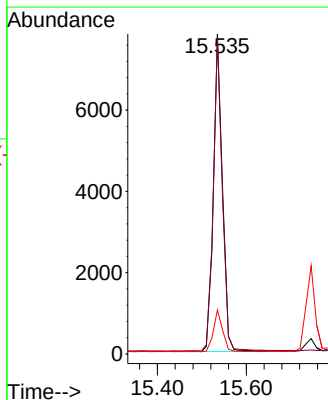
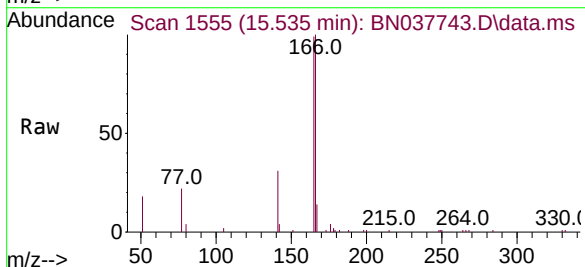
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MS

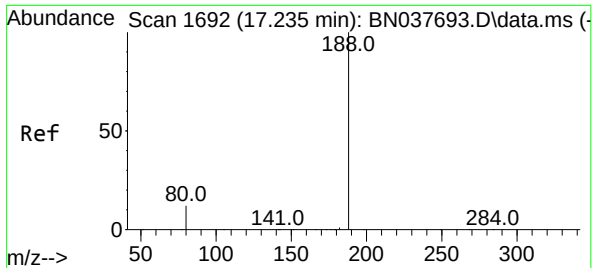
Tgt Ion	154	Resp	8639
Ion Ratio	Lower	Upper	
154	100		
153	112.7	89.8	134.8
152	62.1	50.2	75.2



#18
Fluorene
Concen: 0.319 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion	166	Resp	10553
Ion Ratio	Lower	Upper	
166	100		
165	97.6	79.6	119.4
167	13.6	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037743.D

Acq: 17 Sep 2025 13:14

Instrument :

BNA_N

ClientSampleId :

MW203D2-20250909MS

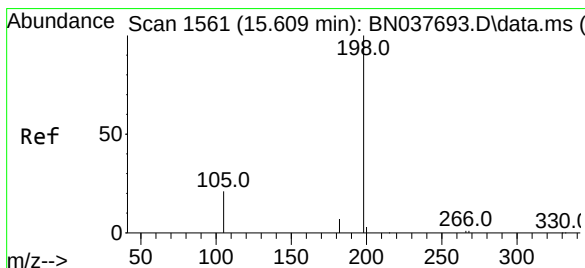
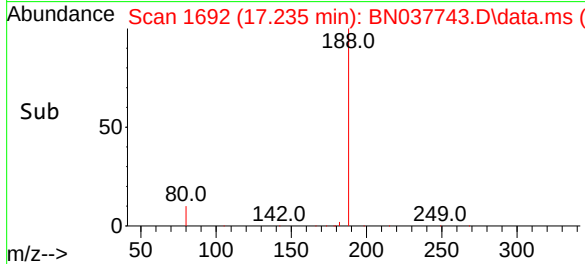
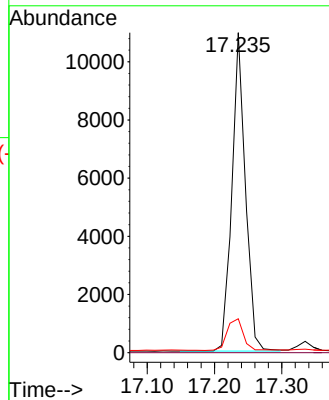
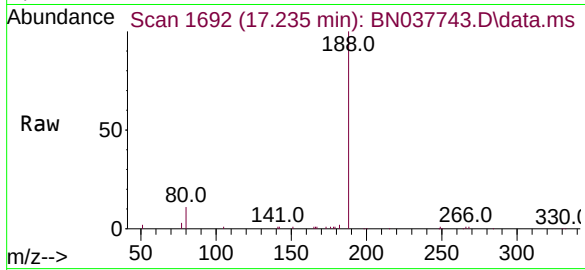
Tgt Ion:188 Resp: 15289

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.6 10.6 15.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.352 ng

RT: 15.609 min Scan# 1561

Delta R.T. 0.000 min

Lab File: BN037743.D

Acq: 17 Sep 2025 13:14

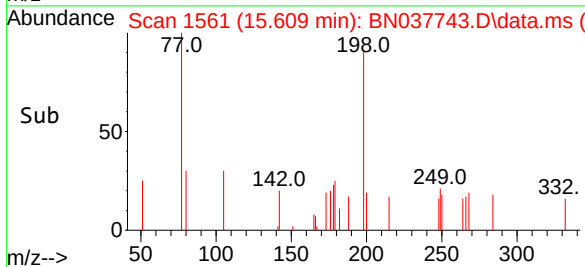
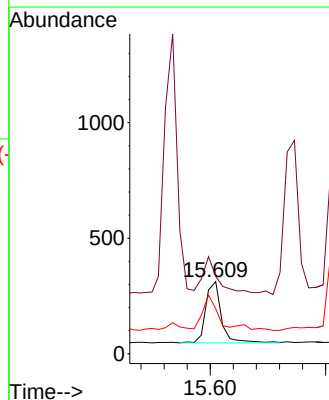
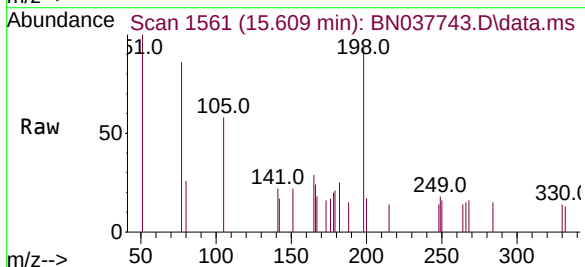
Tgt Ion:198 Resp: 499

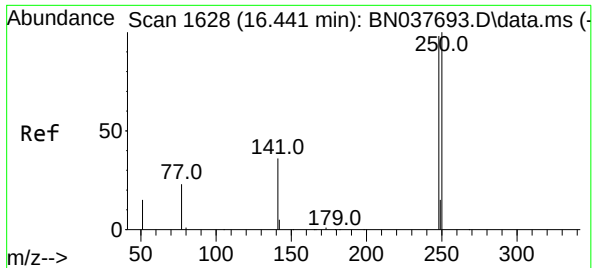
Ion Ratio Lower Upper

198 100

51 107.4 95.1 142.7

105 62.5 53.8 80.6

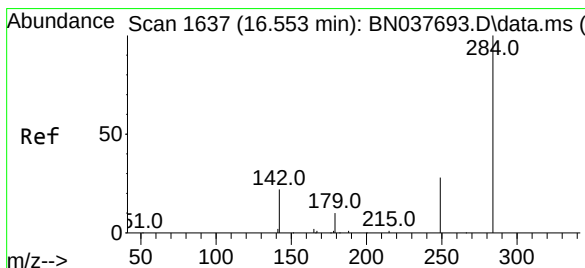
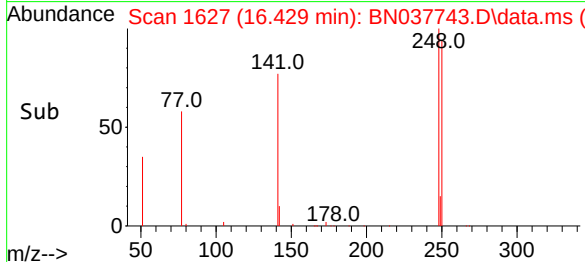
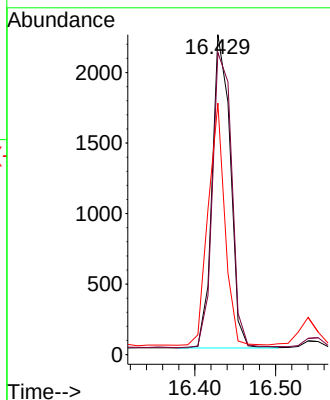
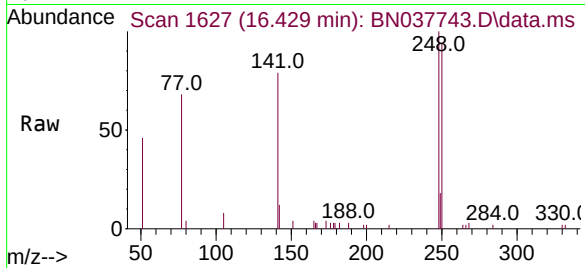




#21
4-Bromophenyl-phenylether
Concen: 0.347 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.013 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

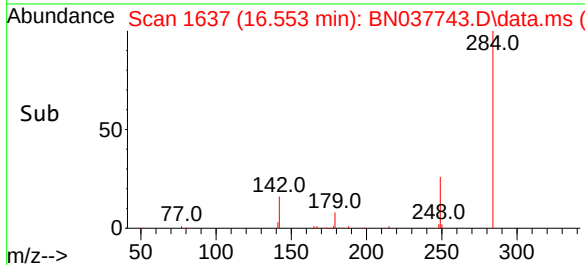
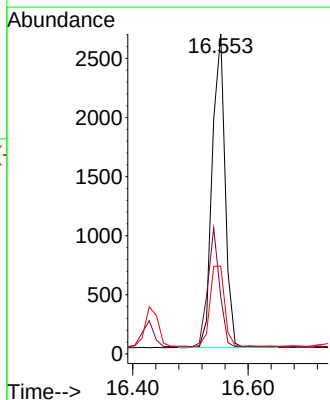
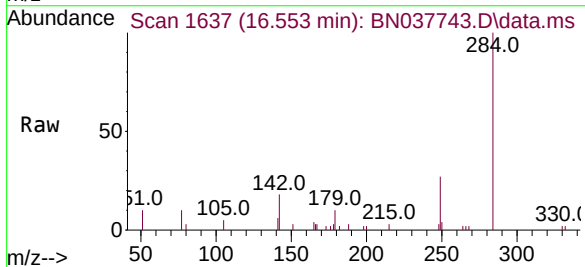
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MS

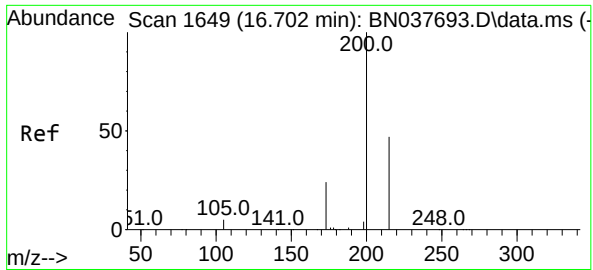
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.4	81.5	122.3
141	78.6	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.359 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion	Ratio	Lower	Upper
284	100		
142	35.2	30.9	46.3
249	29.6	24.8	37.2

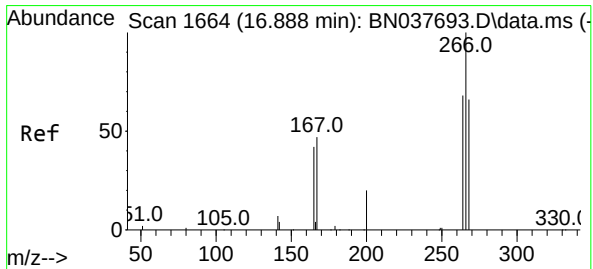
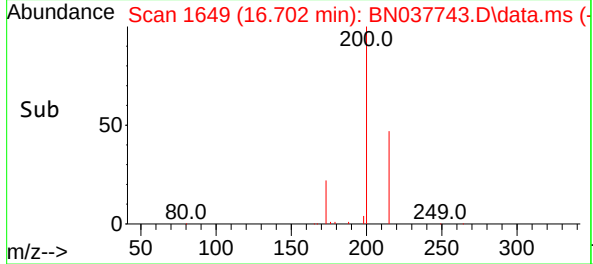
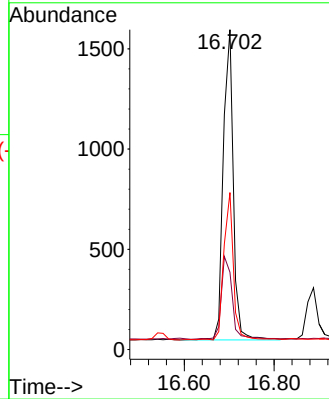
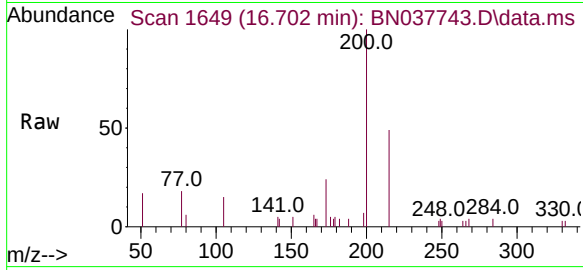




#23
Atrazine
Concen: 0.377 ng
RT: 16.702 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

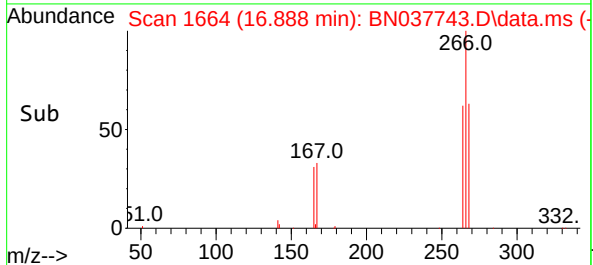
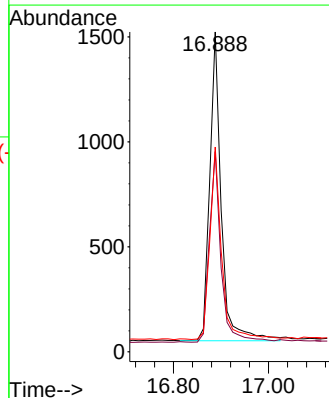
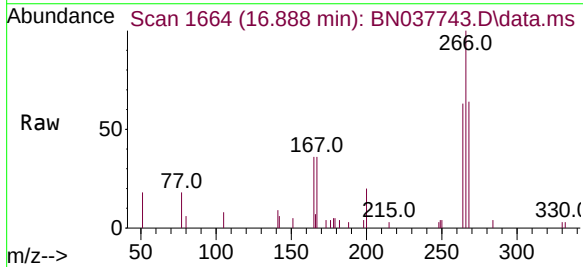
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MS

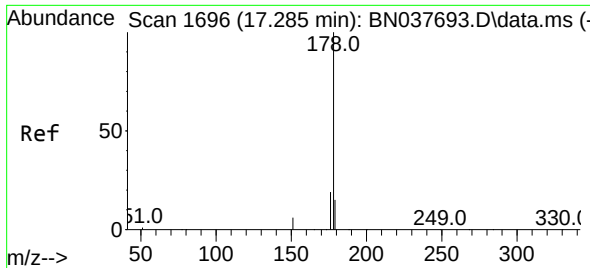
Tgt Ion	Ratio	Lower	Upper
200	100		
173	24.2	21.4	32.2
215	49.1	39.2	58.8



#24
Pentachlorophenol
Concen: 0.741 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.3	51.6	77.4
268	63.5	53.2	79.8

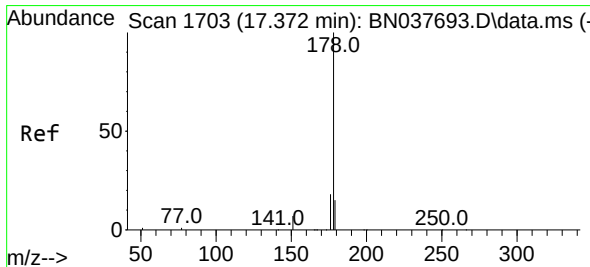
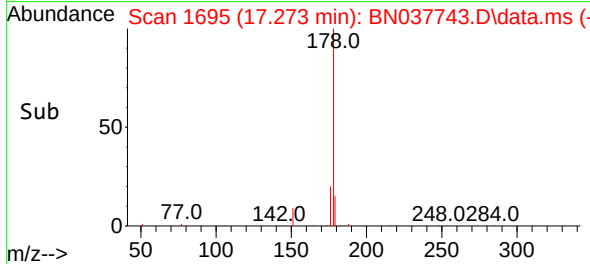
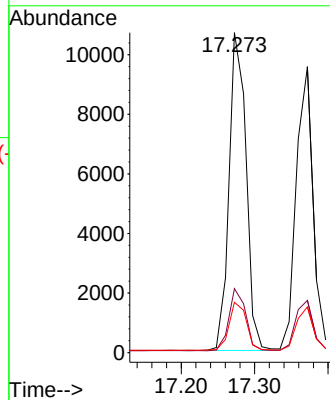
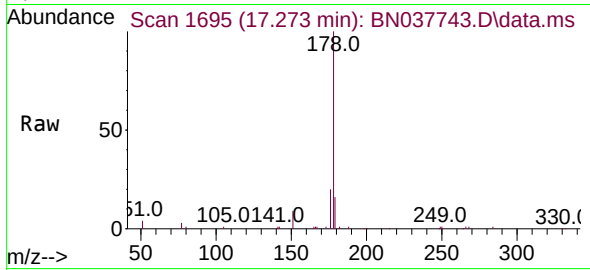




#25
Phenanthrene
Concen: 0.360 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.013 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

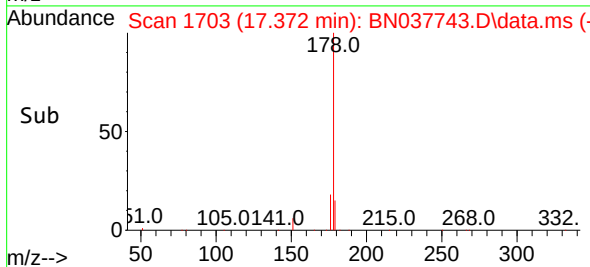
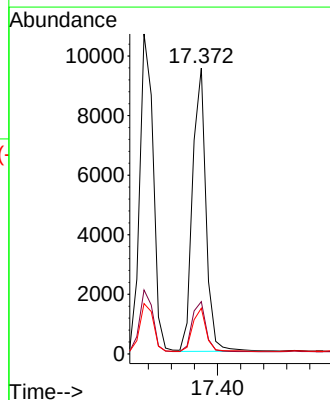
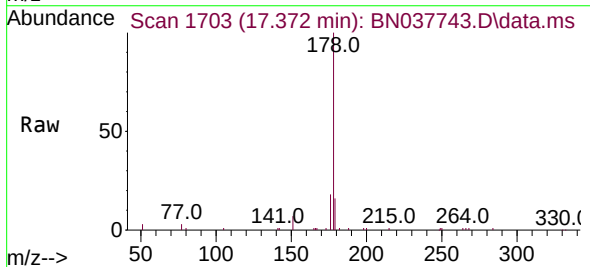
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MS

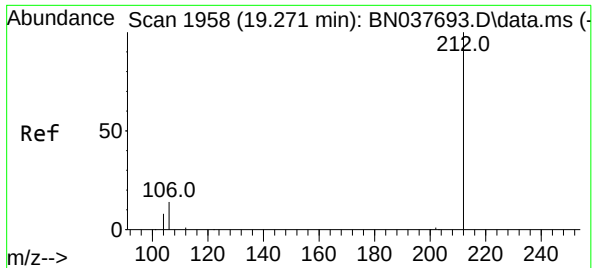
Tgt Ion:178 Resp: 17307
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.5 12.2 18.2



#26
Anthracene
Concen: 0.361 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion:178 Resp: 15375
Ion Ratio Lower Upper
178 100
176 18.5 14.6 22.0
179 15.3 12.2 18.4





#27

Fluoranthene-d10

Concen: 0.334 ng

RT: 19.266 min Scan# 1958

Delta R.T. -0.005 min

Lab File: BN037743.D

Acq: 17 Sep 2025 13:14

Instrument :

BNA_N

ClientSampleId :

MW203D2-20250909MS

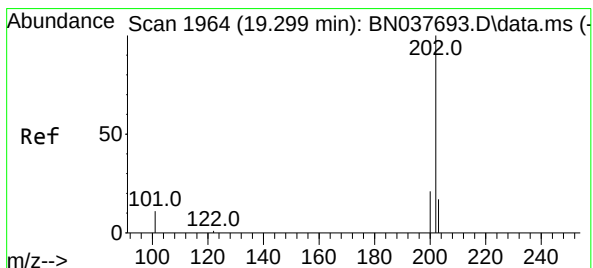
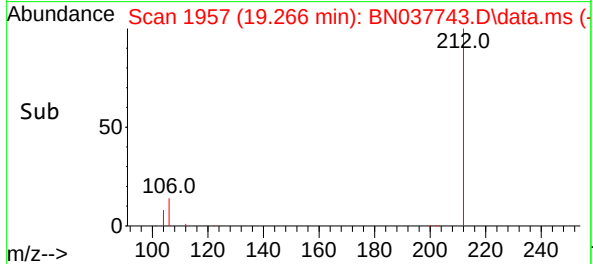
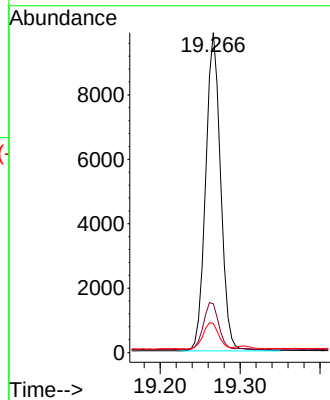
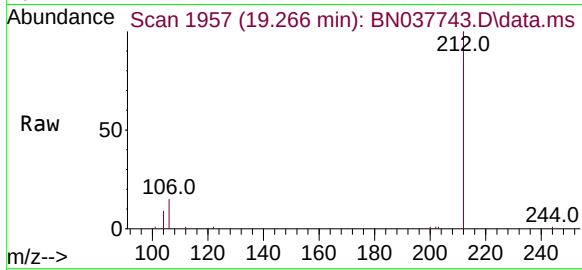
Tgt Ion:212 Resp: 12832

Ion Ratio Lower Upper

212 100

106 15.1 12.2 18.2

104 8.4 6.9 10.3



#28

Fluoranthene

Concen: 0.350 ng

RT: 19.294 min Scan# 1963

Delta R.T. -0.005 min

Lab File: BN037743.D

Acq: 17 Sep 2025 13:14

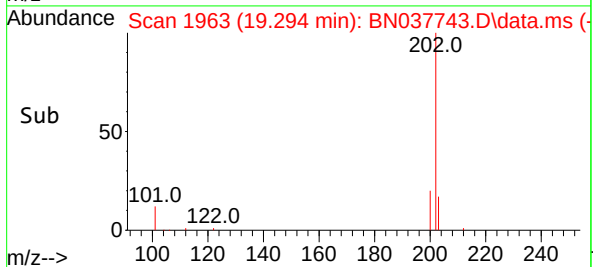
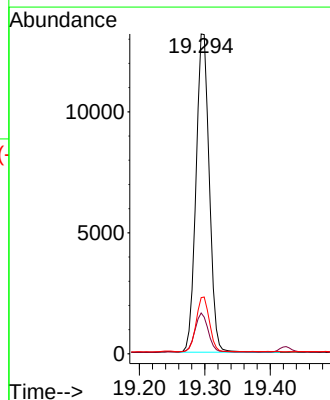
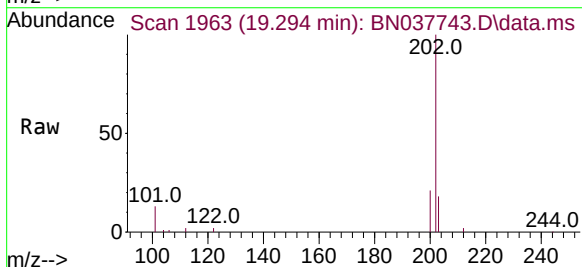
Tgt Ion:202 Resp: 18462

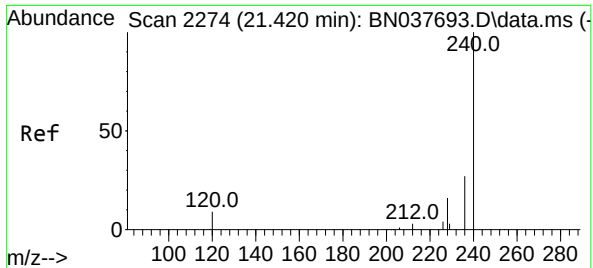
Ion Ratio Lower Upper

202 100

101 12.5 9.3 13.9

203 17.1 13.7 20.5

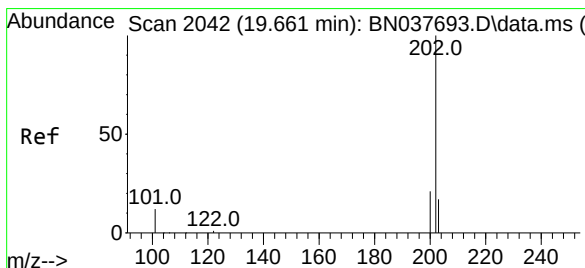
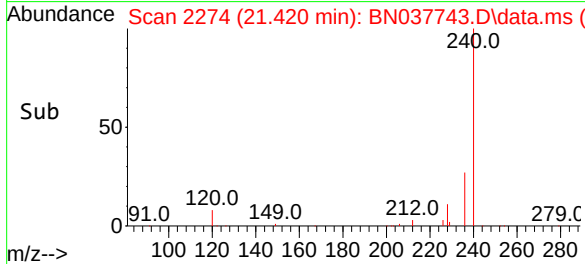
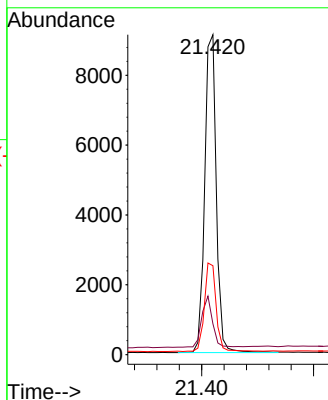
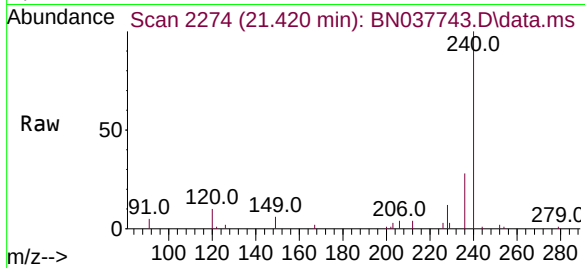




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

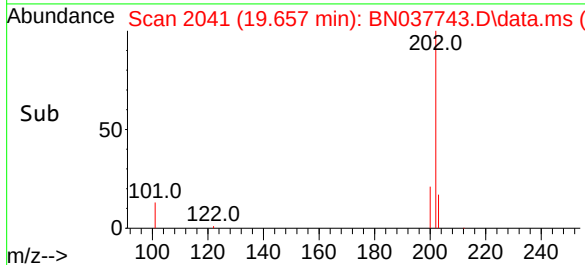
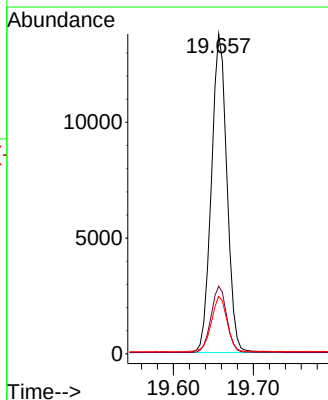
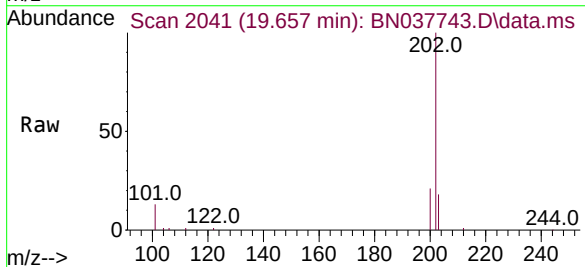
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MS

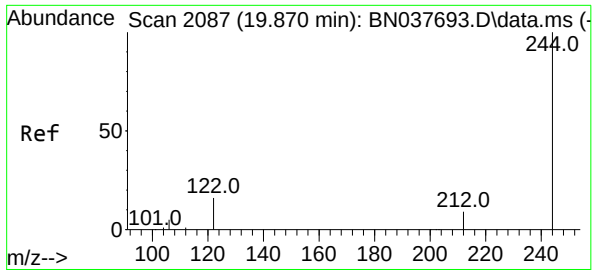
Tgt Ion	Ratio	Lower	Upper
240	100		
120	9.6	9.2	13.8
236	27.8	22.6	33.8



#30
Pyrene
Concen: 0.363 ng
RT: 19.657 min Scan# 2041
Delta R.T. -0.005 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	17.7	14.3	21.5

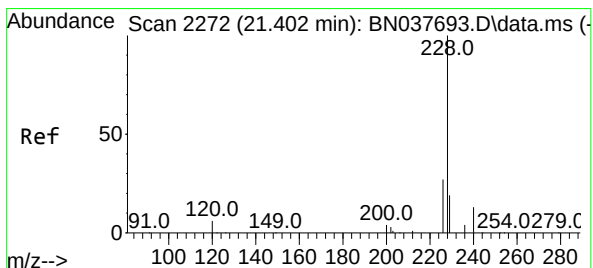
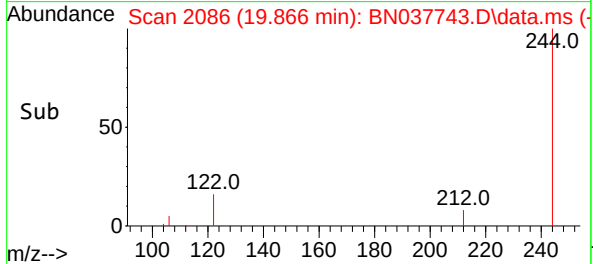
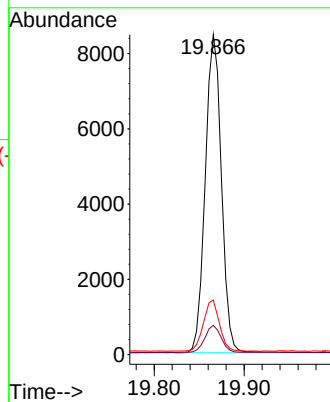
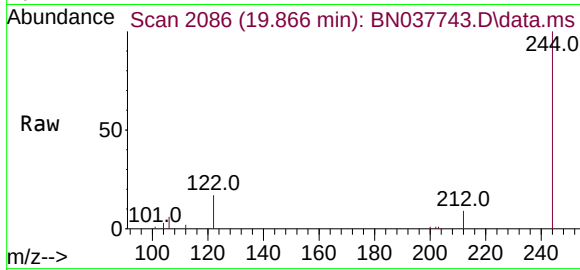




#31
Terphenyl-d14
Concen: 0.396 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

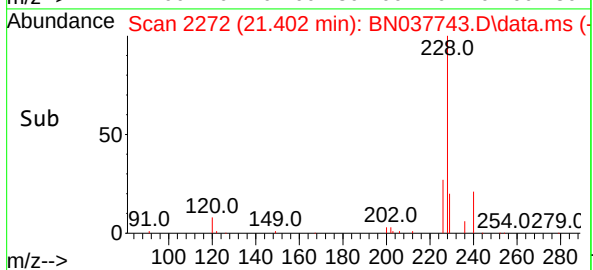
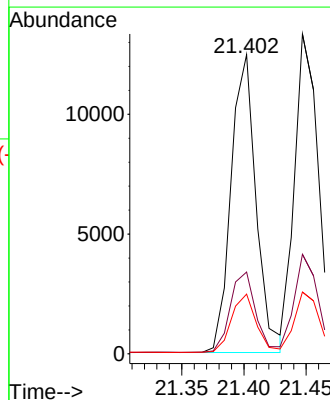
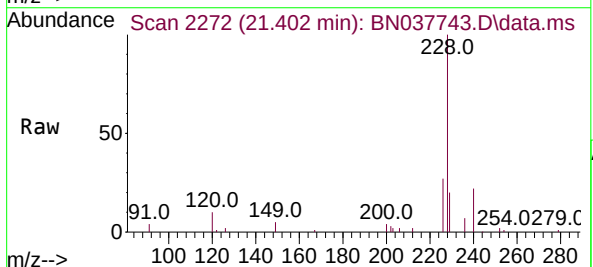
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MS

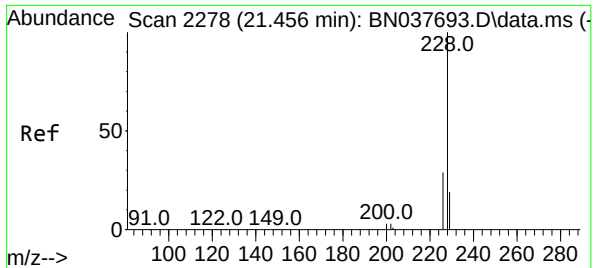
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.1	7.5	11.3
122	17.1	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.383 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.3	22.2	33.2
229	20.0	15.8	23.6





#33

Chrysene

Concen: 0.370 ng

RT: 21.447 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037743.D

Acq: 17 Sep 2025 13:14

Instrument :

BNA_N

ClientSampleId :

MW203D2-20250909MS

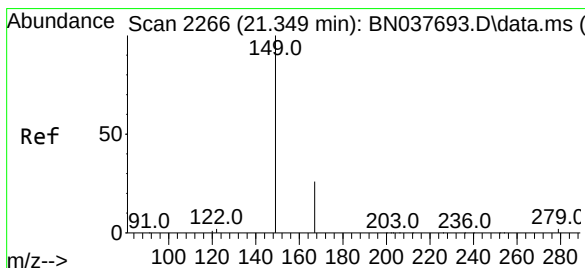
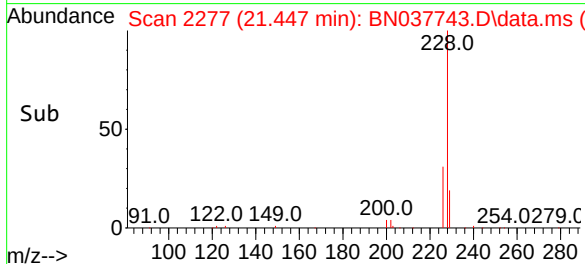
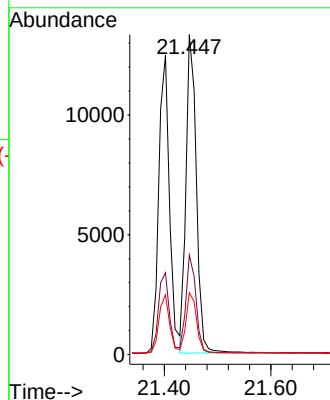
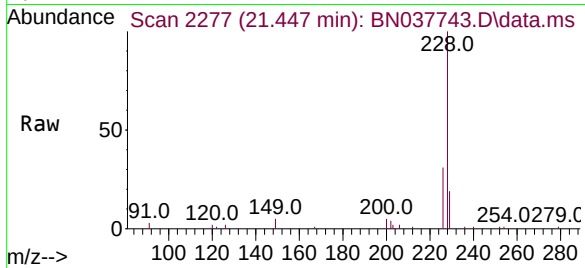
Tgt Ion:228 Resp: 18053

Ion Ratio Lower Upper

228 100

226 31.1 23.5 35.3

229 19.3 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.642 ng

RT: 21.339 min Scan# 2265

Delta R.T. -0.009 min

Lab File: BN037743.D

Acq: 17 Sep 2025 13:14

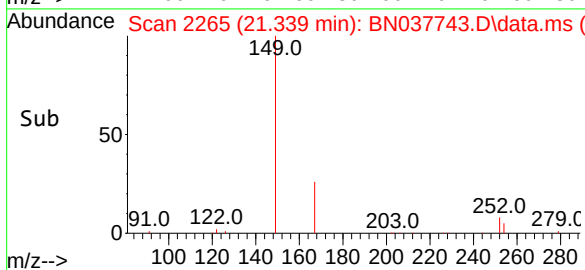
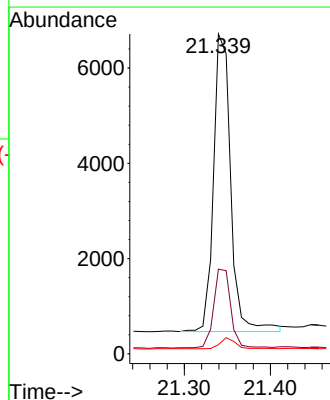
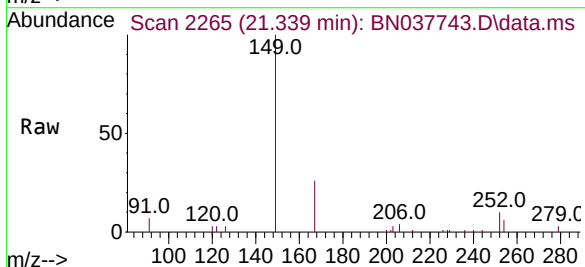
Tgt Ion:149 Resp: 8669

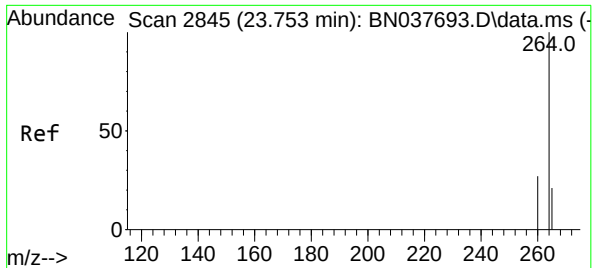
Ion Ratio Lower Upper

149 100

167 25.9 20.8 31.2

279 3.4 3.3 4.9

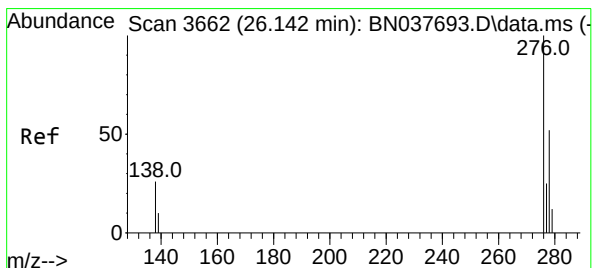
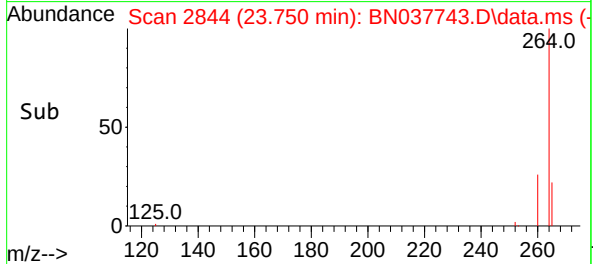
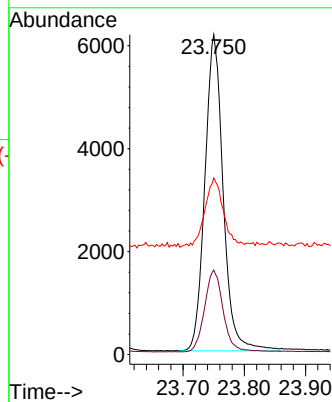
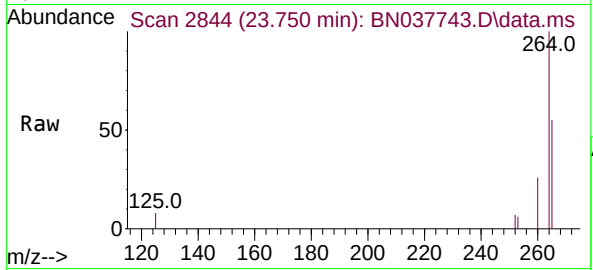




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.750 min Scan# 2845
Delta R.T. -0.003 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

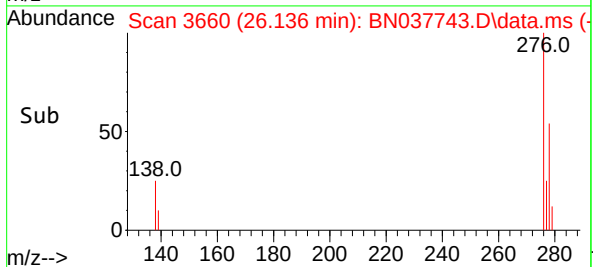
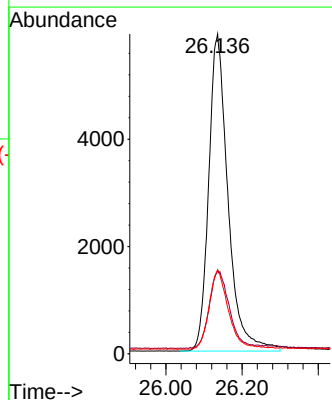
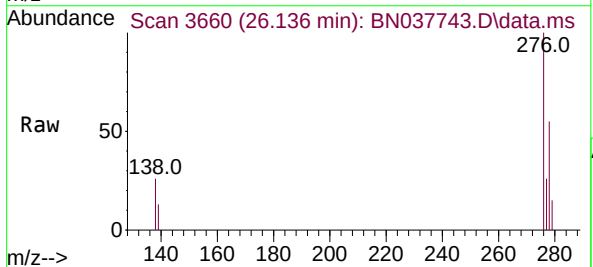
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MS

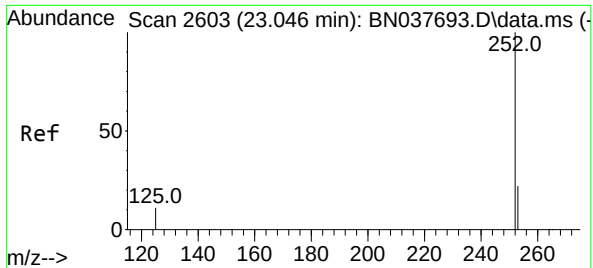
Tgt Ion:264	Resp:	12757
Ion	Ratio	Lower Upper
264	100	
260	26.4	21.8 32.8
265	55.2	39.4 59.2



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.389 ng
RT: 26.136 min Scan# 3660
Delta R.T. -0.006 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion:276	Resp:	20862
Ion	Ratio	Lower Upper
276	100	
138	25.4	21.9 32.9
277	24.9	20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.366 ng

RT: 23.046 min Scan# 2603

Delta R.T. -0.000 min

Lab File: BN037743.D

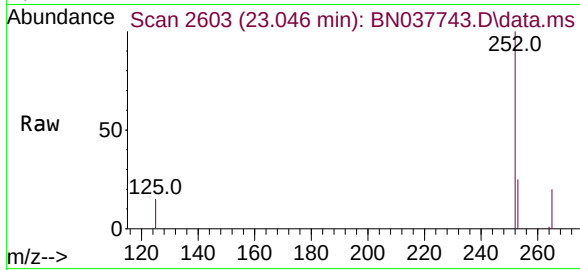
Acq: 17 Sep 2025 13:14

Instrument :

BNA_N

ClientSampleId :

MW203D2-20250909MS



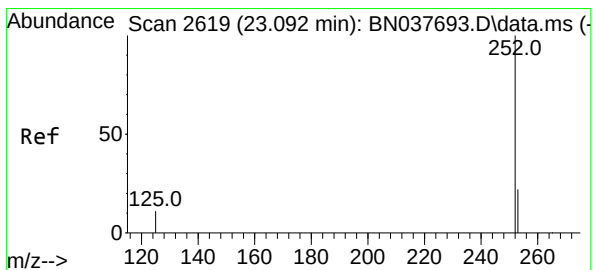
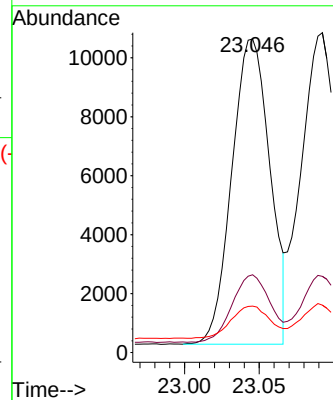
Tgt Ion:252 Resp: 18402

Ion Ratio Lower Upper

252 100

253 24.8 19.4 29.2

125 14.8 11.2 16.8



#38

Benzo(k)fluoranthene

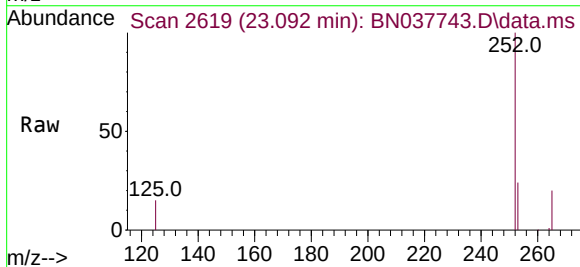
Concen: 0.367 ng

RT: 23.092 min Scan# 2619

Delta R.T. -0.000 min

Lab File: BN037743.D

Acq: 17 Sep 2025 13:14



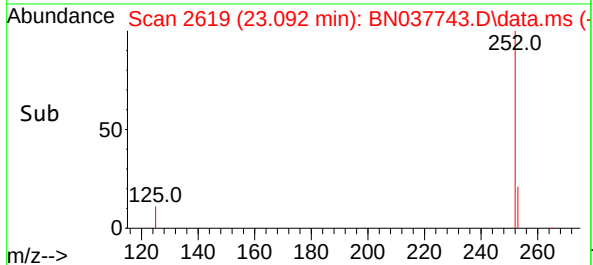
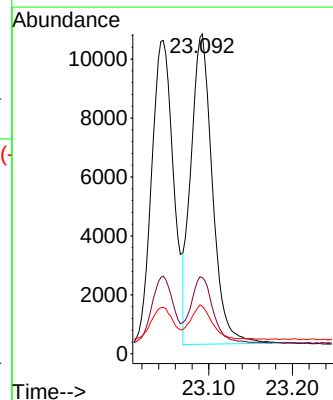
Tgt Ion:252 Resp: 18793

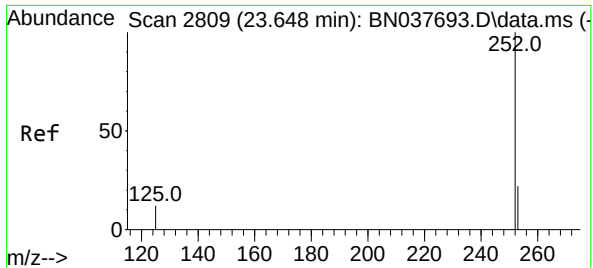
Ion Ratio Lower Upper

252 100

253 23.8 19.4 29.0

125 14.8 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.403 ng

RT: 23.648 min Scan# 2809

Delta R.T. -0.000 min

Lab File: BN037743.D

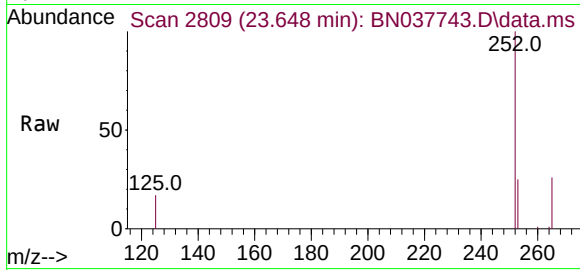
Acq: 17 Sep 2025 13:14

Instrument :

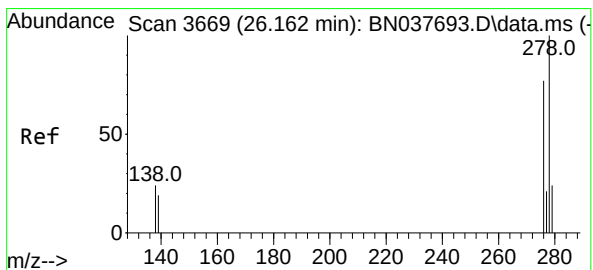
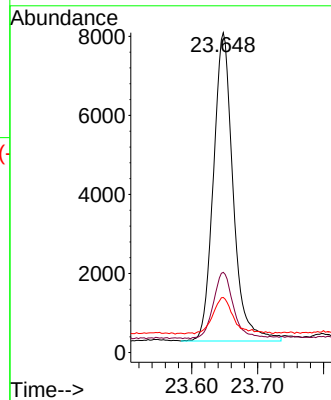
BNA_N

ClientSampleId :

MW203D2-20250909MS



Tgt Ion:	252	Resp:	16200
Ion Ratio	Lower	Upper	
252	100		
253	25.1	20.8	31.2
125	17.2	13.9	20.9



#40

Dibenzo(a,h)anthracene

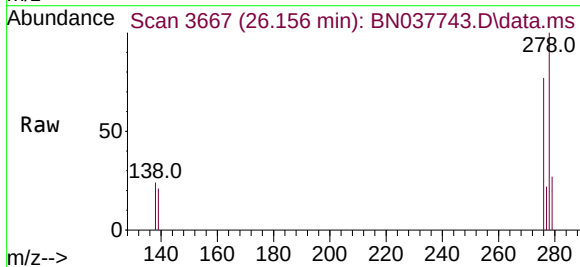
Concen: 0.387 ng

RT: 26.156 min Scan# 3667

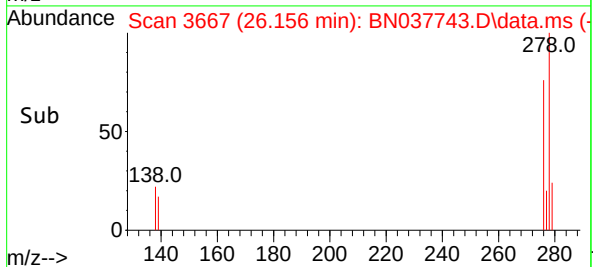
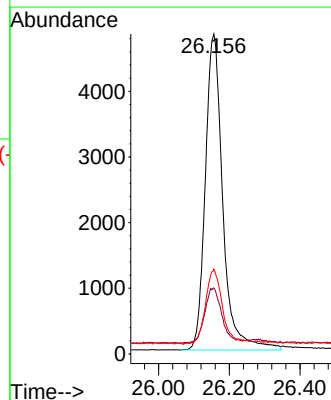
Delta R.T. -0.006 min

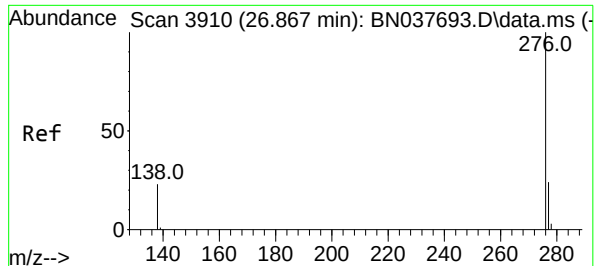
Lab File: BN037743.D

Acq: 17 Sep 2025 13:14



Tgt Ion:	278	Resp:	16551
Ion Ratio	Lower	Upper	
278	100		
139	20.6	17.8	26.6
279	26.5	22.0	33.0





#41

Benzo(g,h,i)perylene

Concen: 0.372 ng

RT: 26.858 min Scan# 39

Delta R.T. -0.009 min

Lab File: BN037743.D

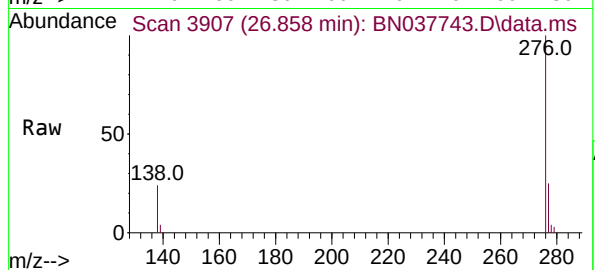
Acq: 17 Sep 2025 13:14

Instrument :

BNA_N

ClientSampleId :

MW203D2-20250909MS



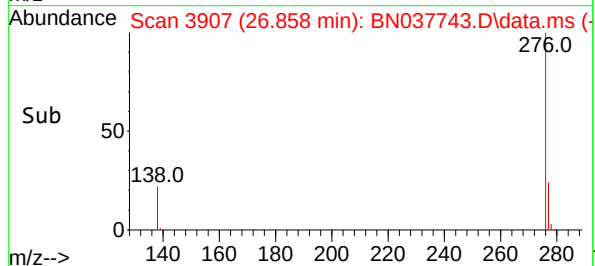
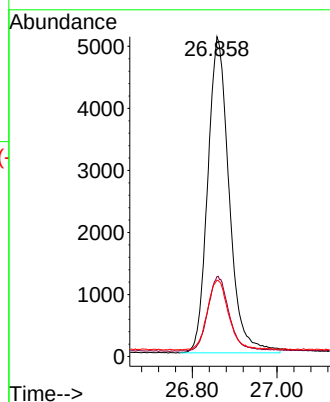
Tgt Ion:276 Resp: 17872

Ion	Ratio	Lower	Upper

276	100		

277	25.0	20.6	31.0

138	23.9	20.2	30.2



Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/12/25
Client Sample ID:	RE103D2-20250911MS		SDG No.:	Q3095
Lab Sample ID:	Q3097-02MS		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
BN037772.D	1	09/15/25 12:00	09/18/25 11:48	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.72		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		87%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		76%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		107%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7220	7.833				
1146-65-2	Naphthalene-d8	19400	10.637				
15067-26-2	Acenaphthene-d10	8790	14.484				
1517-22-2	Phenanthrene-d10	14600	17.236				
1719-03-5	Chrysene-d12	11100	21.411				
1520-96-3	Perylene-d12	10700	23.744				

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\BN091725\
 Data File : BN037772.D
 Acq On : 18 Sep 2025 11:48
 Operator : RC/JU
 Sample : Q3097-02MS
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE103D2-20250911MS

Quant Time: Sep 18 12:16:23 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

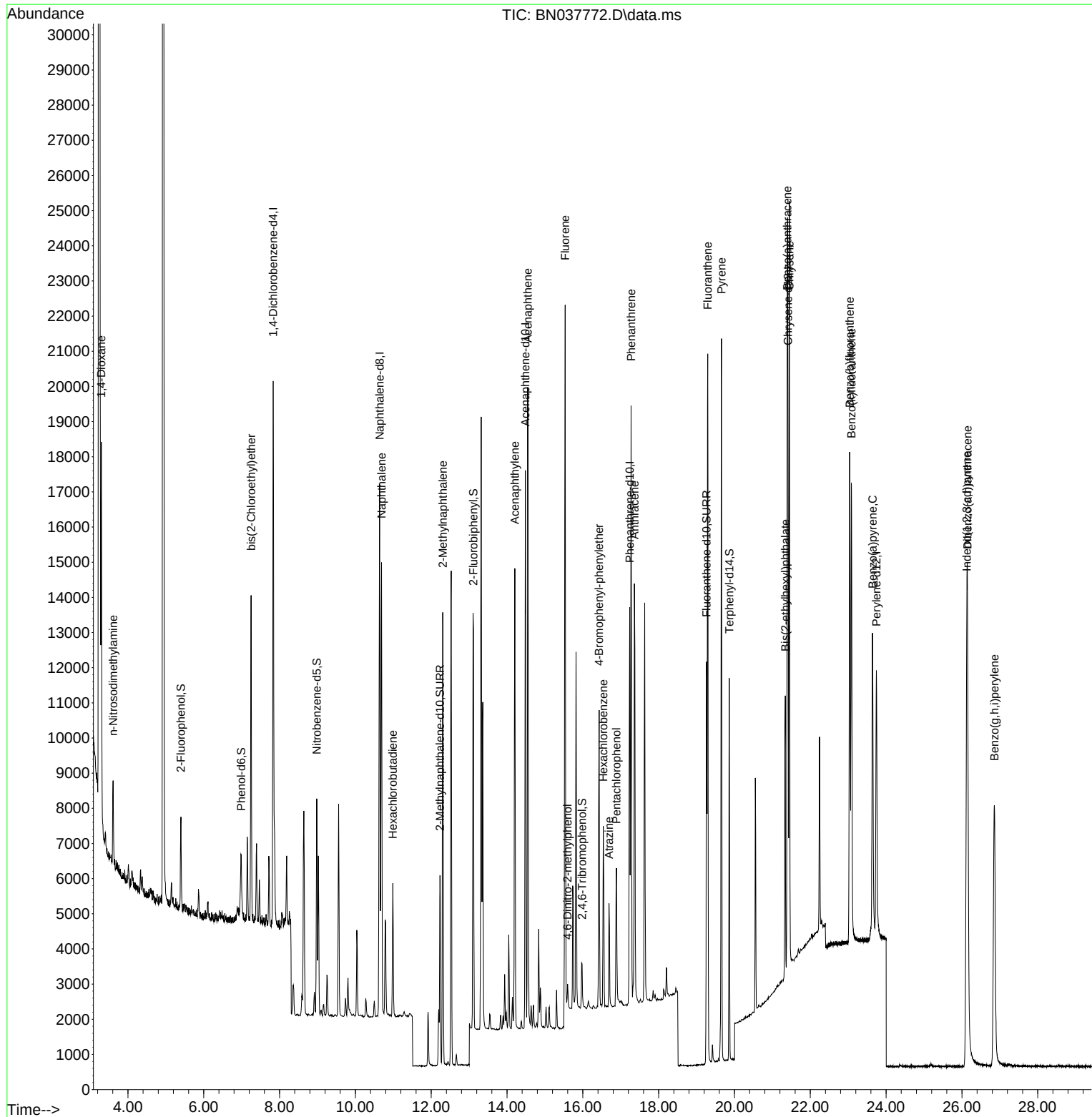
Internal Standards					
1) 1,4-Dichlorobenzene-d4	7.833	152	7218	0.400 ng	0.00
7) Naphthalene-d8	10.637	136	19437	0.400 ng	-0.01
13) Acenaphthene-d10	14.484	164	8792	0.400 ng	-0.01
19) Phenanthrene-d10	17.236	188	14560	0.400 ng	# 0.00
29) Chrysene-d12	21.411	240	11077	0.400 ng	# 0.00
35) Perylene-d12	23.744	264	10712	0.400 ng	# 0.00
System Monitoring Compounds					
4) 2-Fluorophenol	5.399	112	2158	0.130 ng	0.00
5) Phenol-d6	6.988	99	1612	0.075 ng	0.00
8) Nitrobenzene-d5	8.982	82	4623	0.325 ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	7201	0.280 ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	880	0.384 ng	0.00
15) 2-Fluorobiphenyl	13.115	172	11146	0.303 ng	0.00
27) Fluoranthene-d10	19.262	212	12673	0.347 ng	0.00
31) Terphenyl-d14	19.861	244	9630	0.428 ng	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	3.297	88	5443	0.724 ng	95
3) n-Nitrosodimethylamine	3.608	42	1281	0.130 ng	87
6) bis(2-Chloroethyl)ether	7.248	93	6334	0.330 ng	99
9) Naphthalene	10.690	128	17098	0.322 ng	99
10) Hexachlorobutadiene	10.989	225	2914	0.303 ng	# 100
12) 2-Methylnaphthalene	12.304	142	9253	0.282 ng	100
16) Acenaphthylene	14.206	152	13679	0.339 ng	100
17) Acenaphthene	14.548	154	8588	0.315 ng	99
18) Fluorene	15.535	166	10257	0.311 ng	98
20) 4,6-Dinitro-2-methylph...	15.597	198	483	0.358 ng	# 72
21) 4-Bromophenyl-phenylether	16.429	248	3439	0.362 ng	# 89
22) Hexachlorobenzene	16.540	284	4153	0.380 ng	97
23) Atrazine	16.689	200	2516	0.417 ng	# 91
24) Pentachlorophenol	16.888	266	2259	0.712 ng	97
25) Phenanthrene	17.273	178	17041	0.372 ng	100
26) Anthracene	17.360	178	14357	0.354 ng	100
28) Fluoranthene	19.294	202	18098	0.360 ng	99
30) Pyrene	19.657	202	18207	0.420 ng	100
32) Benzo(a)anthracene	21.393	228	16075	0.416 ng	100
33) Chrysene	21.447	228	17366	0.419 ng	99
34) Bis(2-ethylhexyl)phtha...	21.340	149	5730	0.500 ng	98
36) Indeno(1,2,3-cd)pyrene	26.127	276	20796	0.462 ng	99
37) Benzo(b)fluoranthene	23.037	252	18047	0.428 ng	97
38) Benzo(k)fluoranthene	23.084	252	17770	0.413 ng	97
39) Benzo(a)pyrene	23.642	252	14195	0.420 ng	97
40) Dibenzo(a,h)anthracene	26.148	278	16460	0.458 ng	98
41) Benzo(g,h,i)perylene	26.855	276	17542	0.435 ng	98

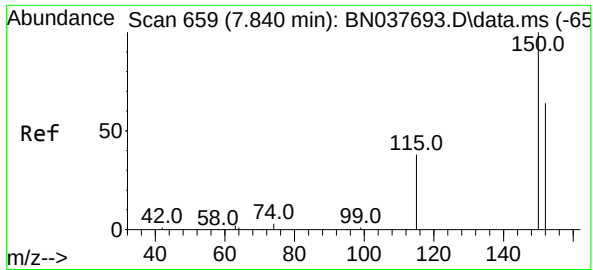
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037772.D
Acq On : 18 Sep 2025 11:48
Operator : RC/JU
Sample : Q3097-02MS
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

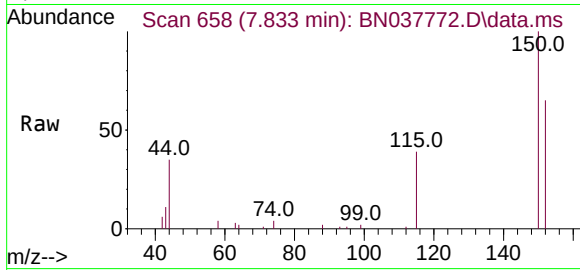
Quant Time: Sep 18 12:16:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



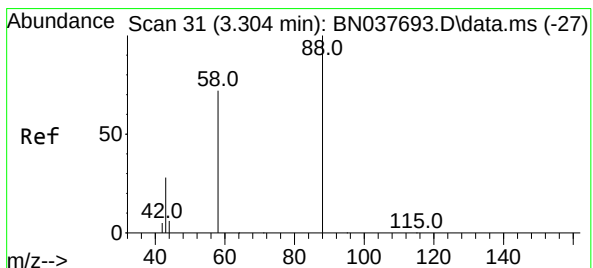
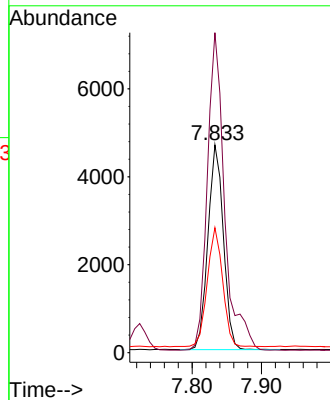
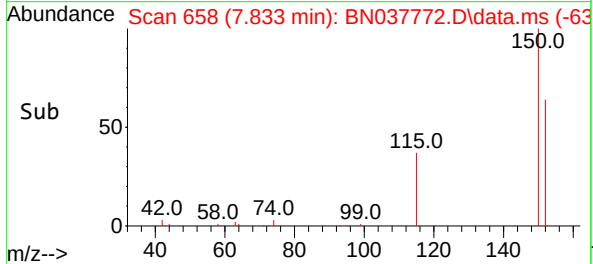


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.833 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN037772.D
 Acq: 18 Sep 2025 11:48

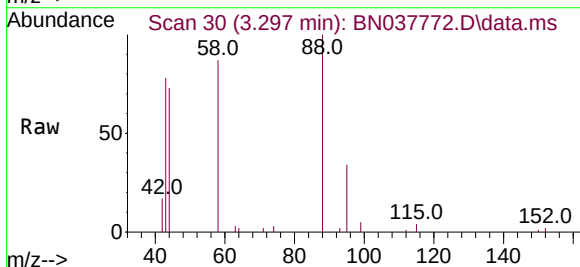
Instrument :
 BNA_N
 ClientSampleId :
 RE103D2-20250911MS



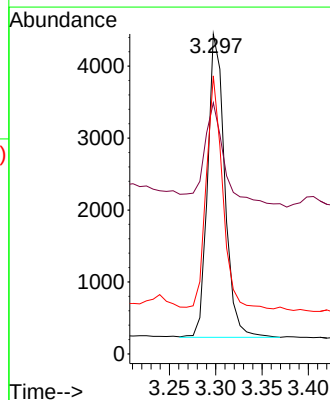
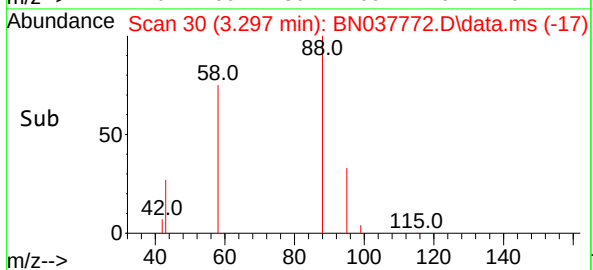
Tgt Ion: 152 Resp: 7218
 Ion Ratio Lower Upper
 152 100
 150 154.1 124.5 186.7
 115 60.1 49.2 73.8

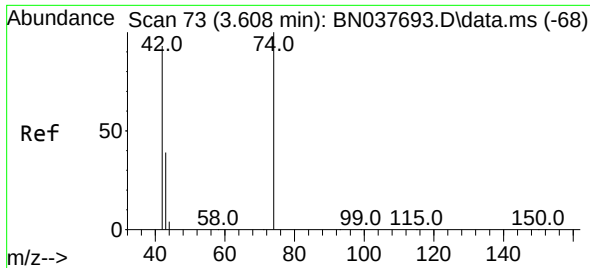


#2
 1,4-Dioxane
 Concen: 0.724 ng
 RT: 3.297 min Scan# 30
 Delta R.T. -0.007 min
 Lab File: BN037772.D
 Acq: 18 Sep 2025 11:48



Tgt Ion: 88 Resp: 5443
 Ion Ratio Lower Upper
 88 100
 43 37.1 26.8 40.2
 58 73.0 61.9 92.9

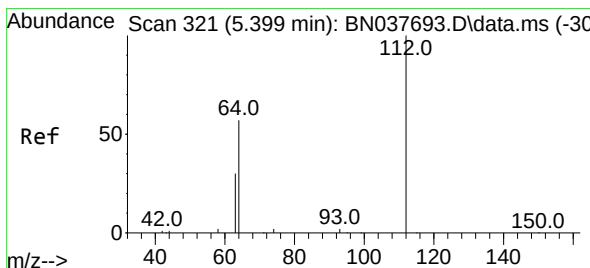
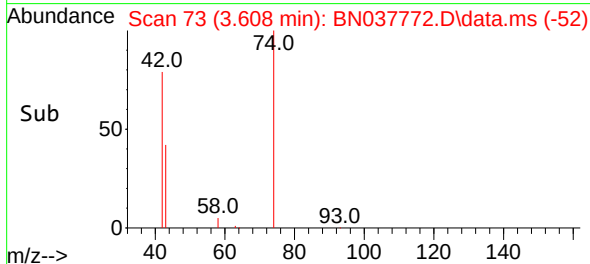
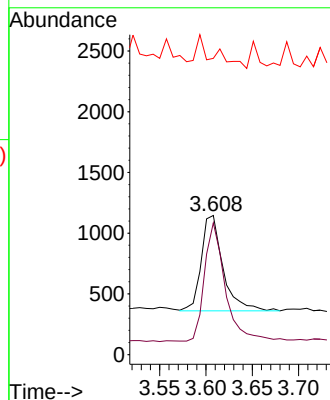
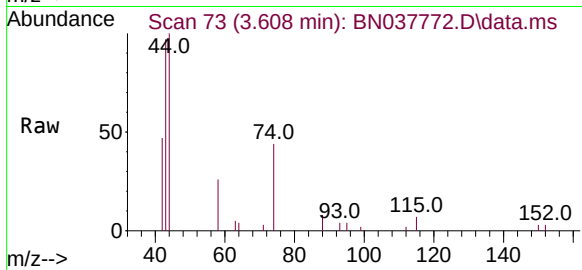




#3
 n-Nitrosodimethylamine
 Concen: 0.130 ng
 RT: 3.608 min Scan# 73
 Delta R.T. 0.000 min
 Lab File: BN037772.D
 Acq: 18 Sep 2025 11:48

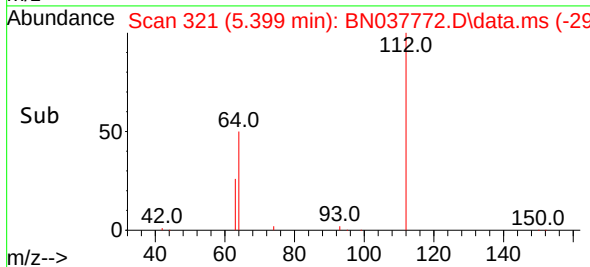
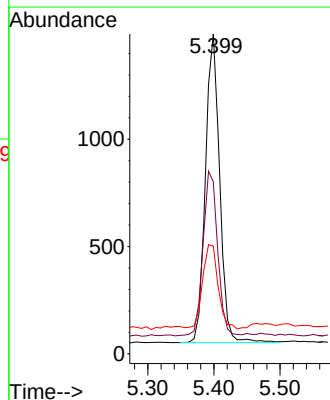
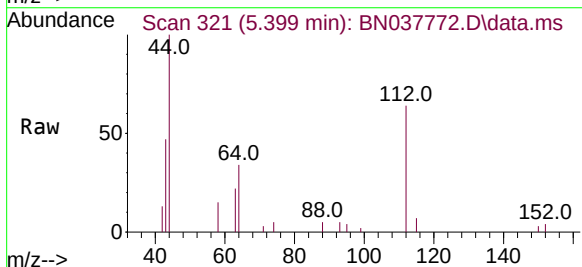
Instrument :
 BNA_N
 ClientSampleId :
 RE103D2-20250911MS

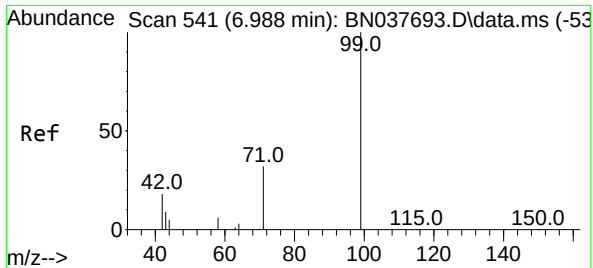
Tgt Ion: 42 Resp: 1281
 Ion Ratio Lower Upper
 42 100
 74 121.5 86.0 129.0
 44 11.9 8.4 12.6



#4
 2-Fluorophenol
 Concen: 0.130 ng
 RT: 5.399 min Scan# 321
 Delta R.T. 0.000 min
 Lab File: BN037772.D
 Acq: 18 Sep 2025 11:48

Tgt Ion: 112 Resp: 2158
 Ion Ratio Lower Upper
 112 100
 64 54.4 44.9 67.3
 63 29.7 24.7 37.1

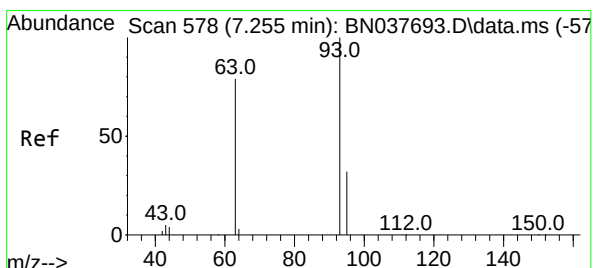
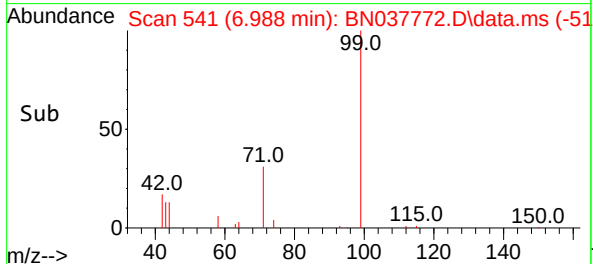
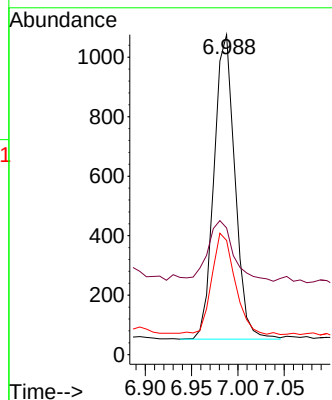
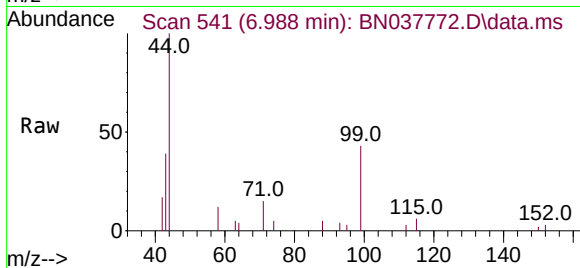




#5
Phenol-d6
Concen: 0.075 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

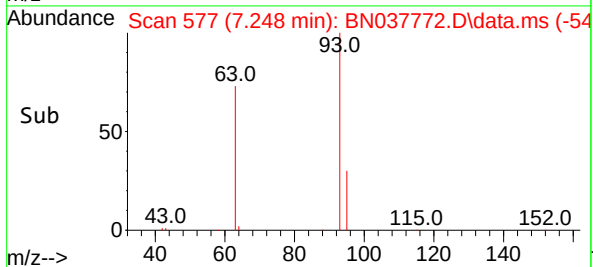
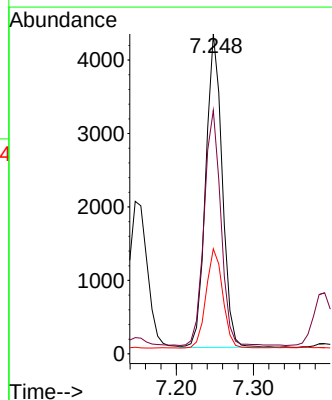
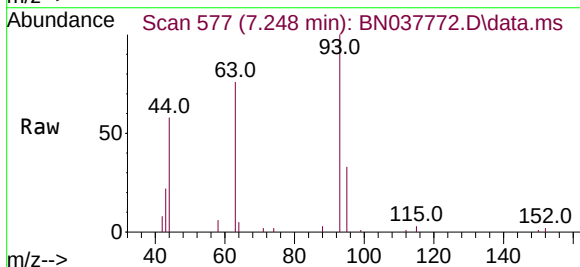
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

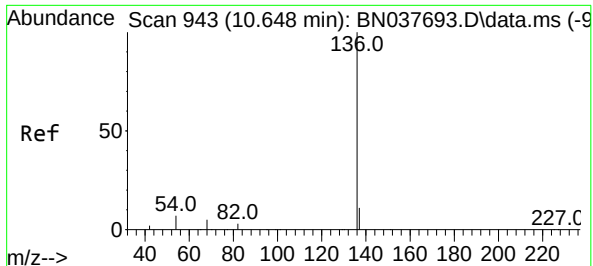
Tgt Ion	Ratio	Lower	Upper
99	100		
42	24.2	16.6	24.8
71	36.7	26.7	40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.330 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion	Ratio	Lower	Upper
93	100		
63	76.1	60.6	90.8
95	32.0	26.0	39.0

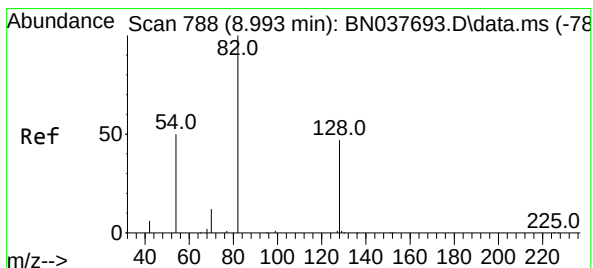
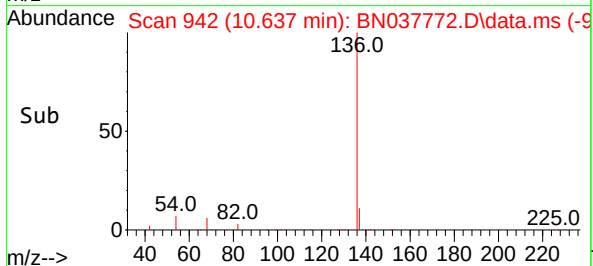
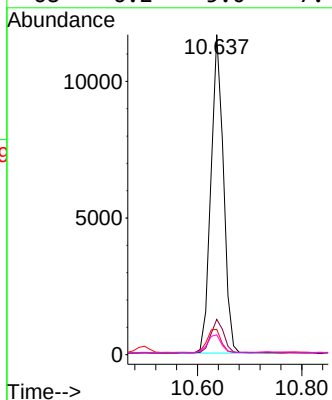
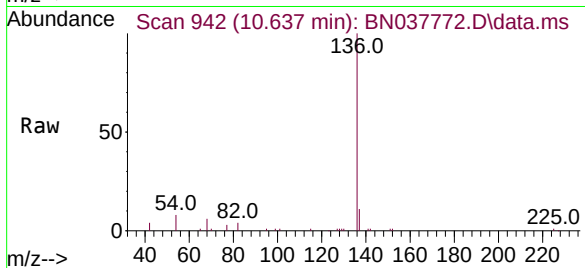




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

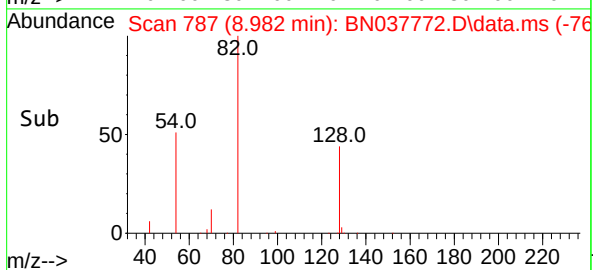
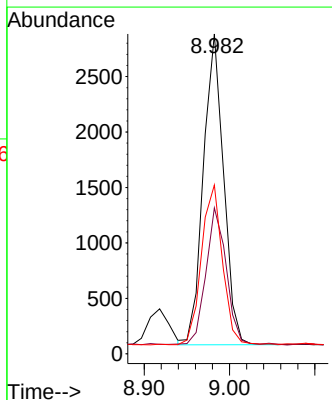
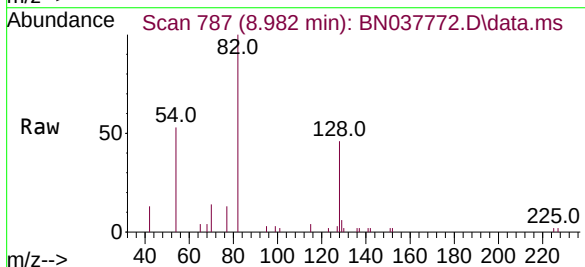
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BNA_N
ClientSampleId :
RE103D2-20250911MS

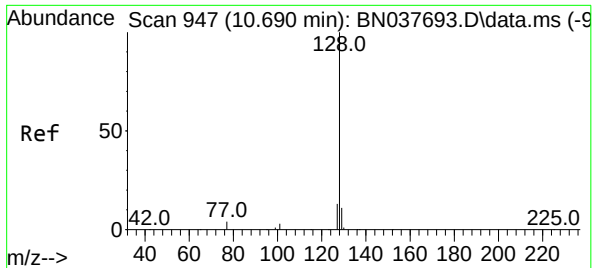
Tgt Ion:	136	Resp:	19437
Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.1	13.7
54	7.9	6.3	9.5
68	6.2	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.325 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:	82	Resp:	4623
Ion	Ratio	Lower	Upper
82	100		
128	45.6	38.3	57.5
54	52.8	41.4	62.2

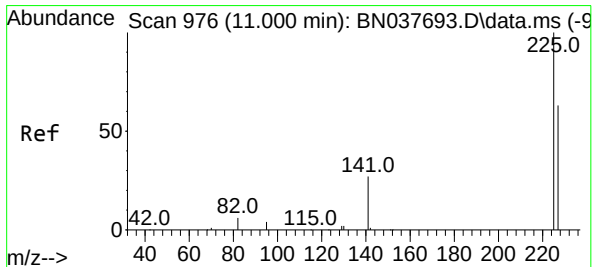
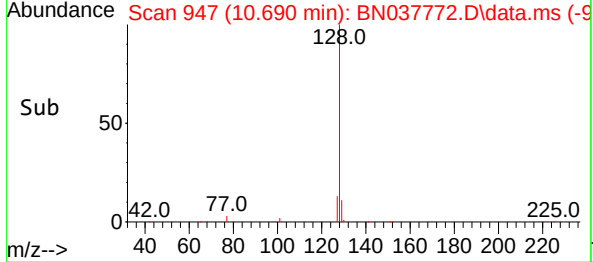
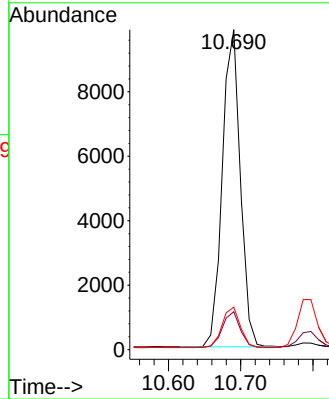
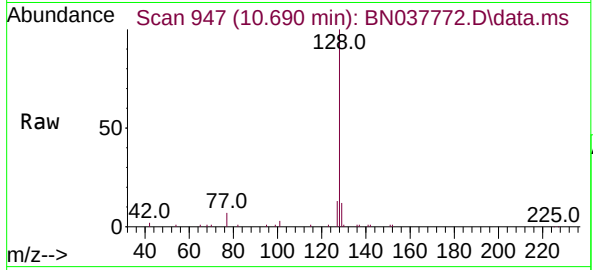




#9
Naphthalene
Concen: 0.322 ng
RT: 10.690 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

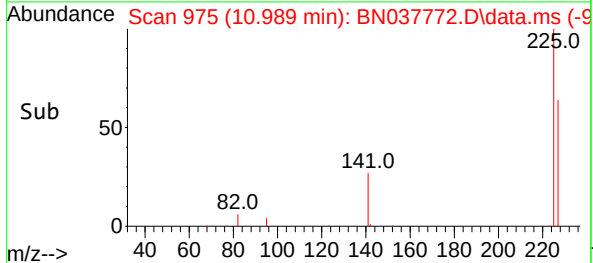
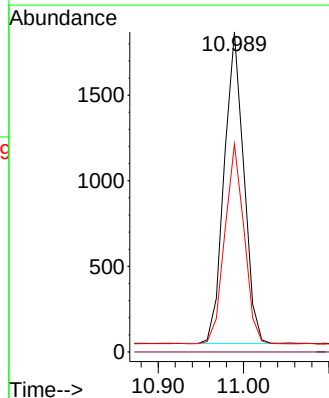
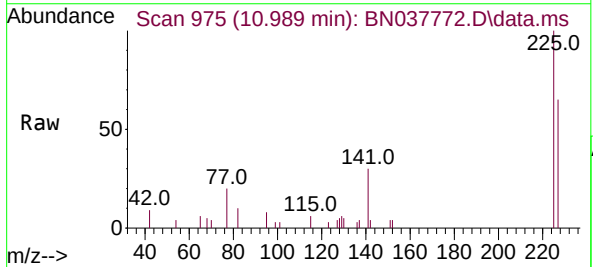
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

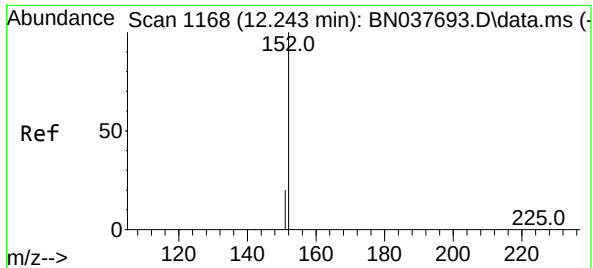
Tgt Ion:	128	Resp:	17098
Ion Ratio	Lower	Upper	
128	100		
129	11.8	9.1	13.7
127	13.3	10.9	16.3



#10
Hexachlorobutadiene
Concen: 0.303 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:	225	Resp:	2914
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	63.3	50.9	76.3

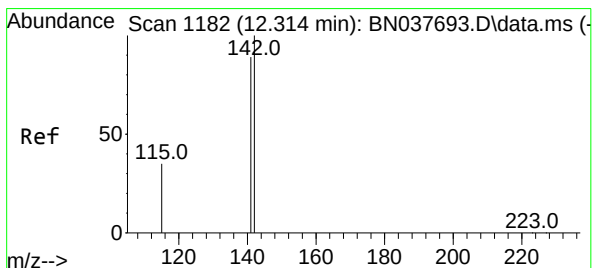
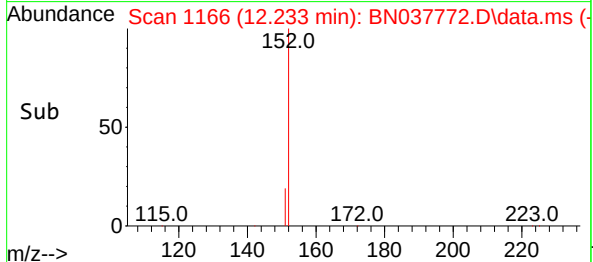
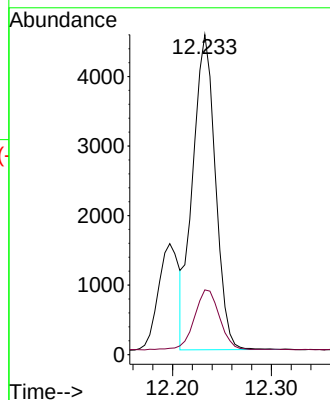
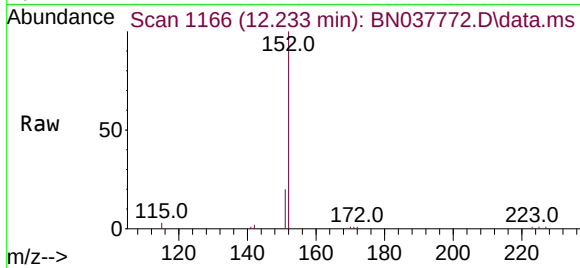




#11
2-Methylnaphthalene-d10
Concen: 0.280 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

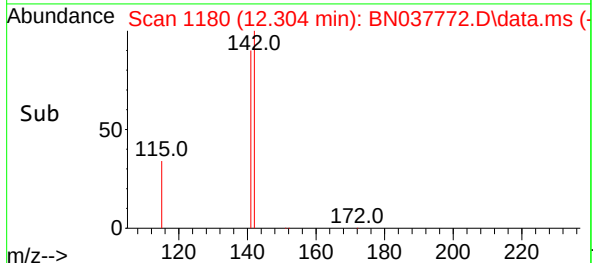
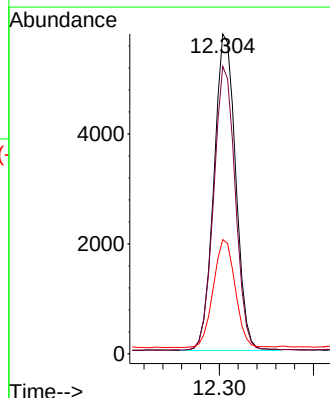
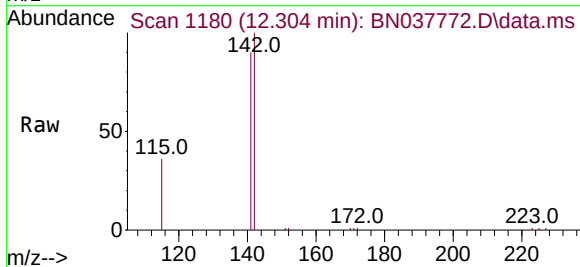
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

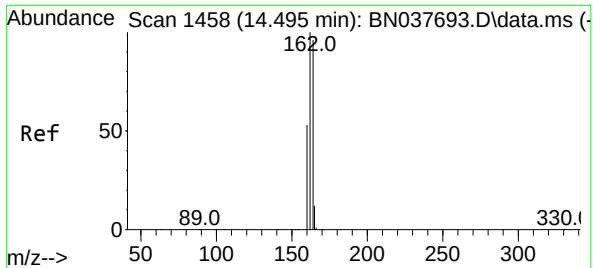
Tgt Ion:152 Resp: 7201
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.282 ng
RT: 12.304 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:142 Resp: 9253
Ion Ratio Lower Upper
142 100
141 89.8 71.6 107.4
115 35.7 28.6 43.0

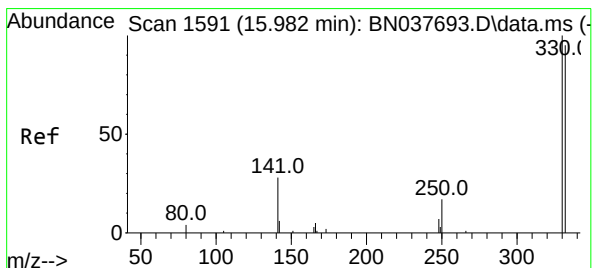
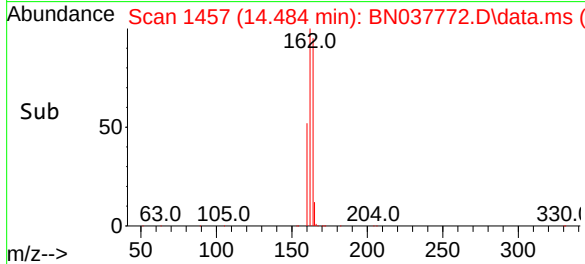
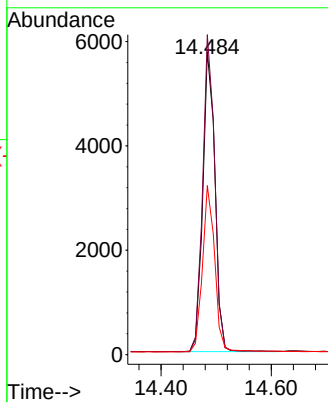
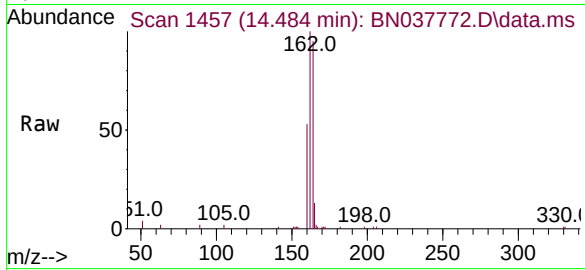




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

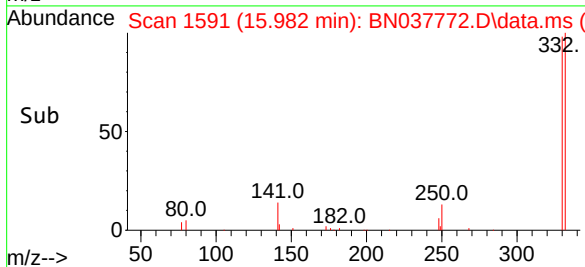
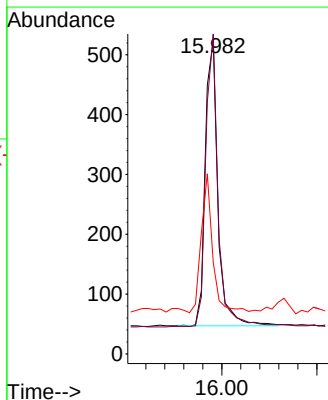
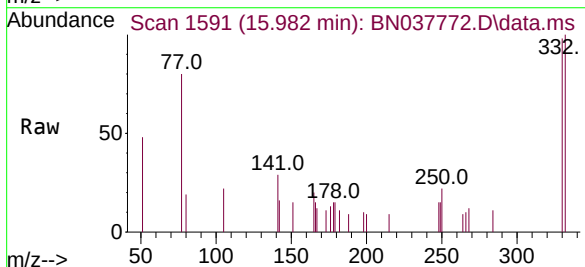
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

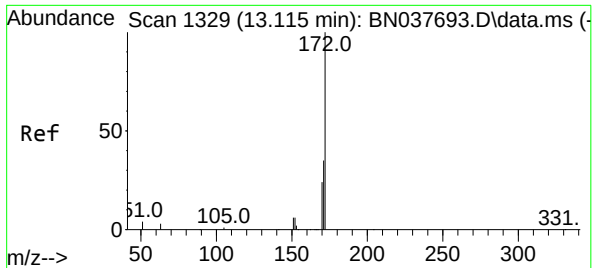
Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.6	83.1	124.7
160	55.8	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.384 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion	Ratio	Lower	Upper
330	100		
332	100.5	75.3	112.9
141	43.6	35.0	52.4

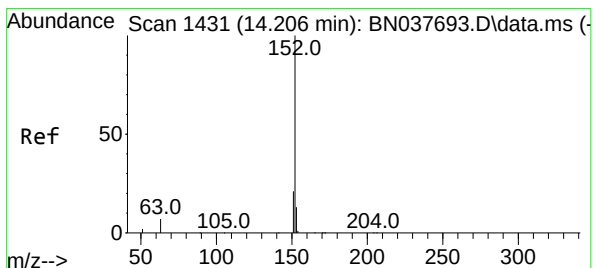
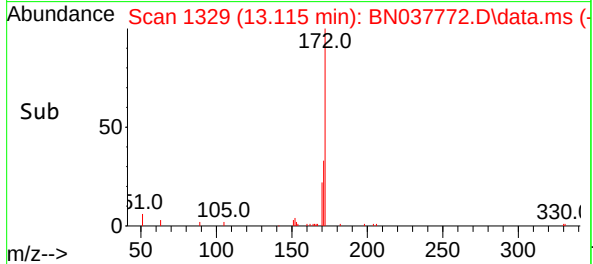
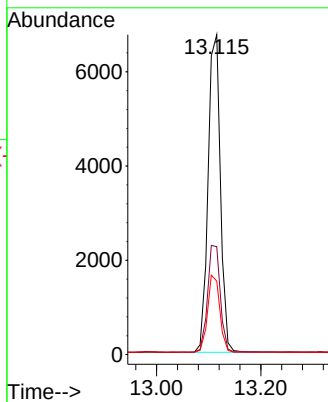
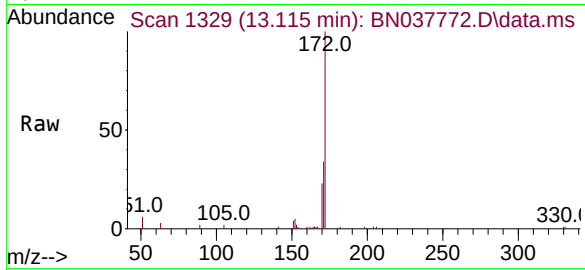




#15
2-Fluorobiphenyl
Concen: 0.303 ng
RT: 13.115 min Scan# 1329
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

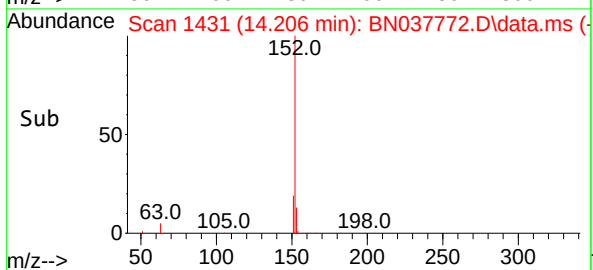
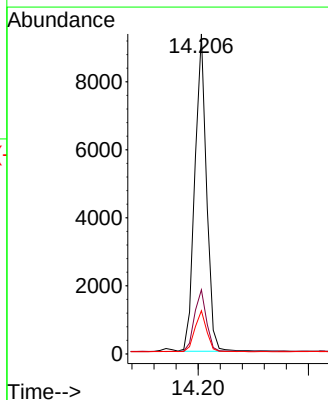
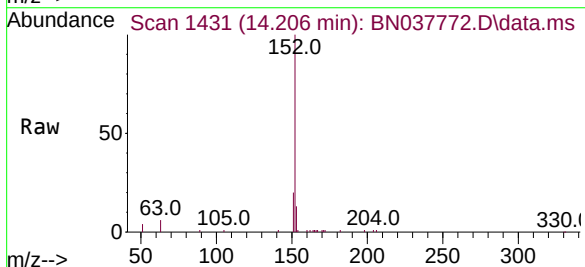
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

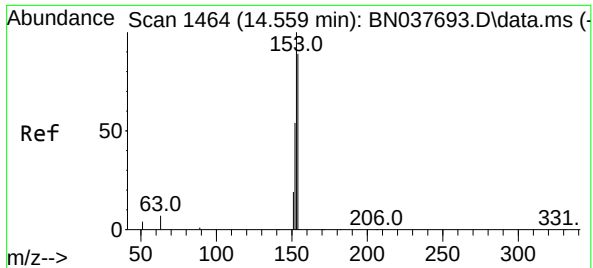
Tgt Ion:172 Resp: 11146
Ion Ratio Lower Upper
172 100
171 33.7 28.6 43.0
170 23.0 19.8 29.8



#16
Acenaphthylene
Concen: 0.339 ng
RT: 14.206 min Scan# 1431
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:152 Resp: 13679
Ion Ratio Lower Upper
152 100
151 20.1 16.2 24.2
153 13.2 10.4 15.6

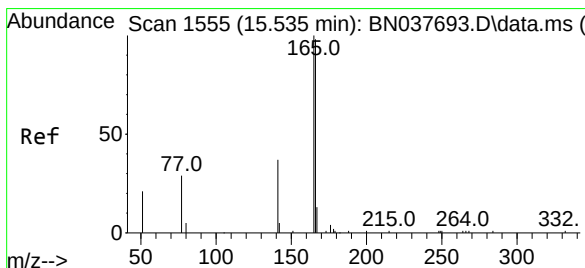
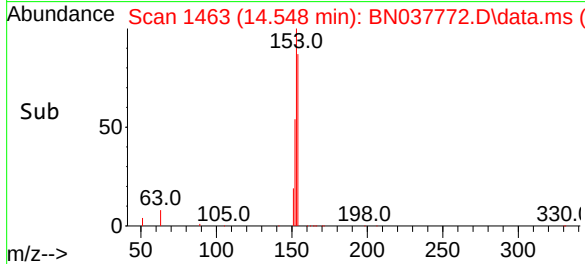
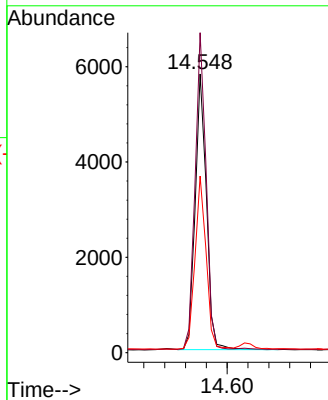
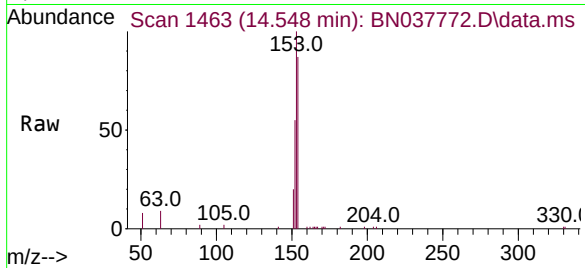




#17
Acenaphthene
Concen: 0.315 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

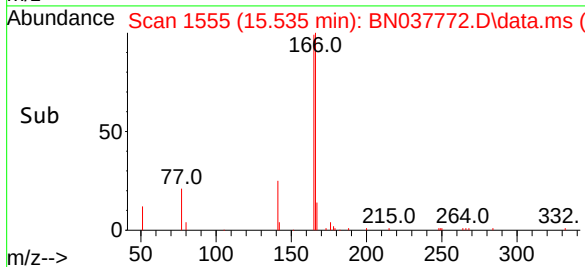
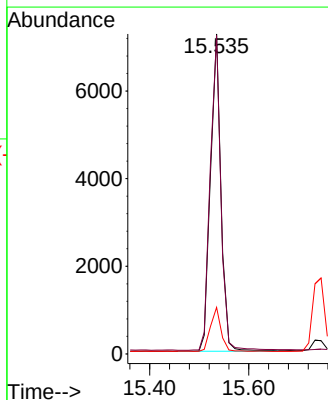
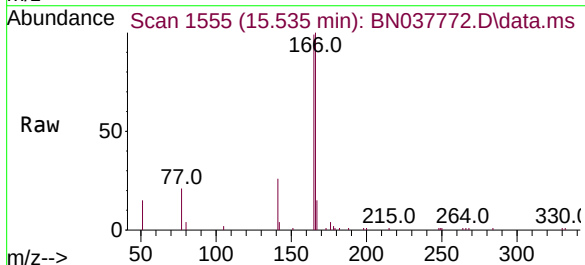
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

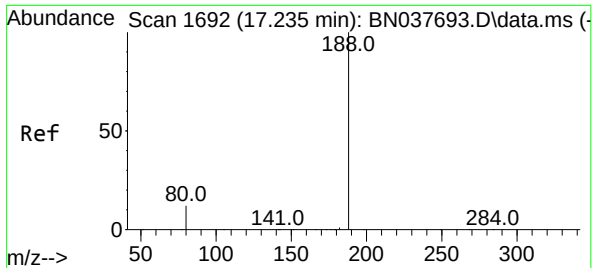
Tgt Ion:154 Resp: 8588
Ion Ratio Lower Upper
154 100
153 113.3 89.8 134.8
152 62.5 50.2 75.2



#18
Fluorene
Concen: 0.311 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:166 Resp: 10257
Ion Ratio Lower Upper
166 100
165 101.5 79.6 119.4
167 14.1 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.236 min Scan# 1692

Delta R.T. 0.000 min

Lab File: BN037772.D

Acq: 18 Sep 2025 11:48

Instrument :

BNA_N

ClientSampleId :

RE103D2-20250911MS

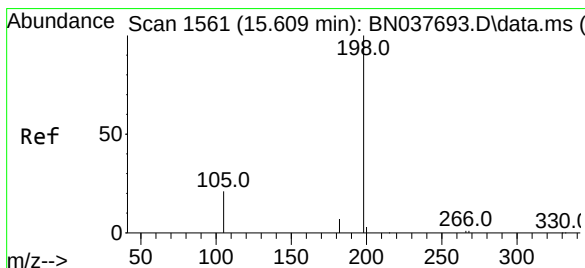
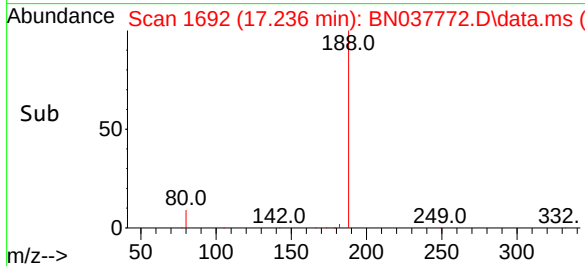
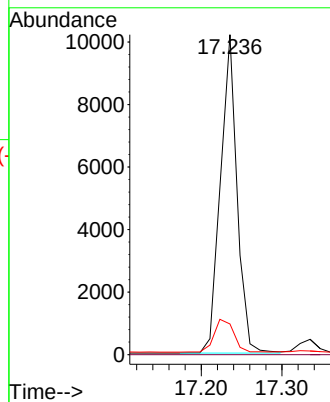
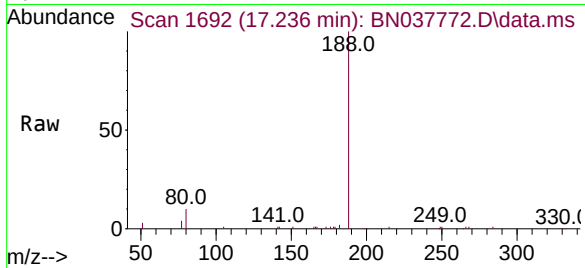
Tgt Ion:188 Resp: 14560

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.6 10.6 15.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.358 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.012 min

Lab File: BN037772.D

Acq: 18 Sep 2025 11:48

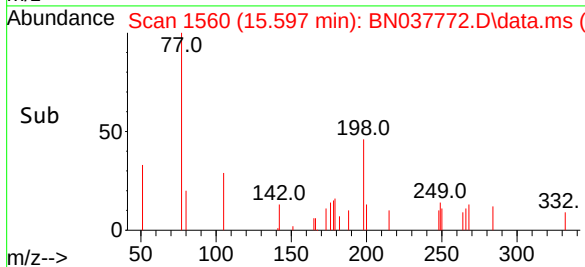
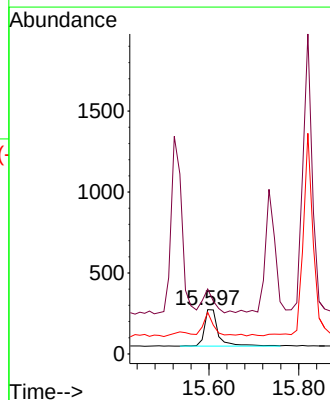
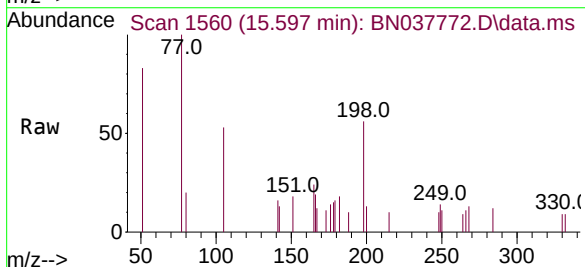
Tgt Ion:198 Resp: 483

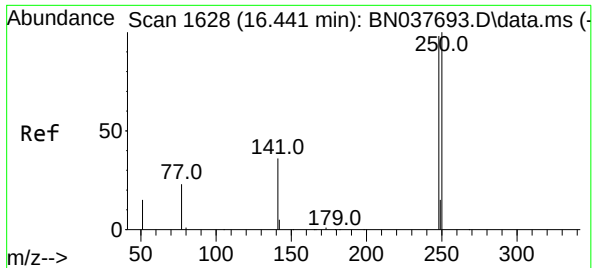
Ion Ratio Lower Upper

198 100

51 146.4 95.1 142.7#

105 93.8 53.8 80.6#

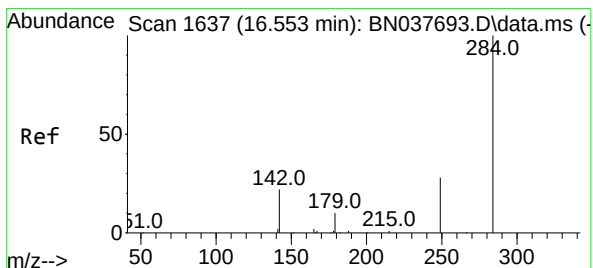
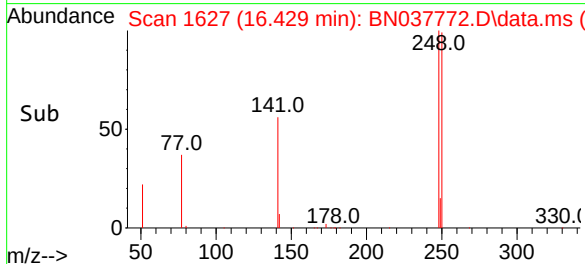
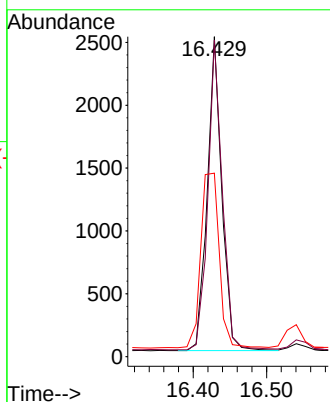
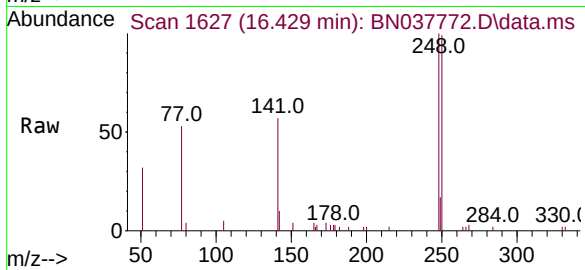




#21
4-Bromophenyl-phenylether
Concen: 0.362 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.012 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

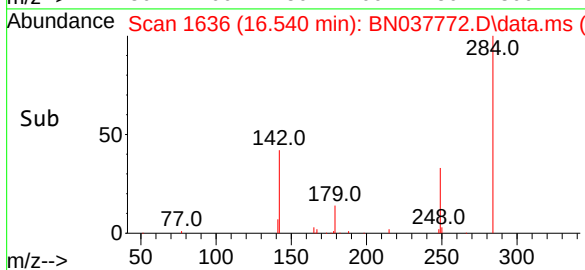
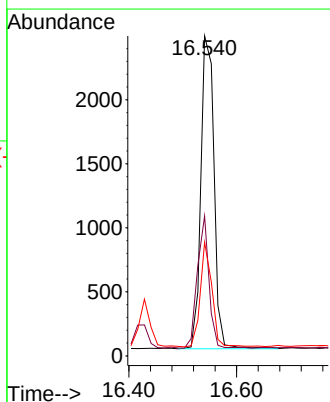
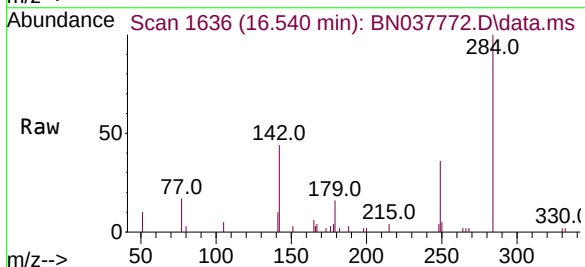
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

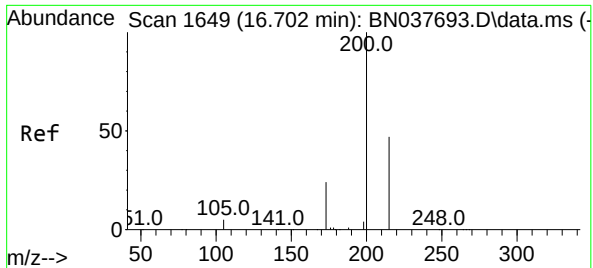
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.9	81.5	122.3
141	57.3	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.380 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.0	30.9	46.3
249	29.4	24.8	37.2





#23

Atrazine

Concen: 0.417 ng

RT: 16.689 min Scan# 1648

Delta R.T. -0.012 min

Lab File: BN037772.D

Acq: 18 Sep 2025 11:48

Instrument :

BNA_N

ClientSampleId :

RE103D2-20250911MS

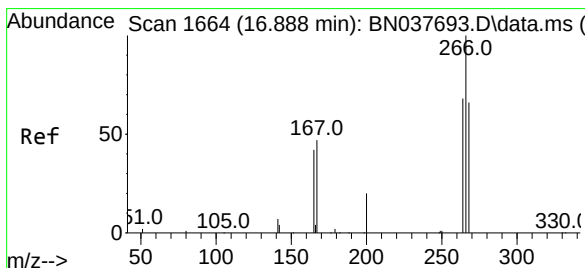
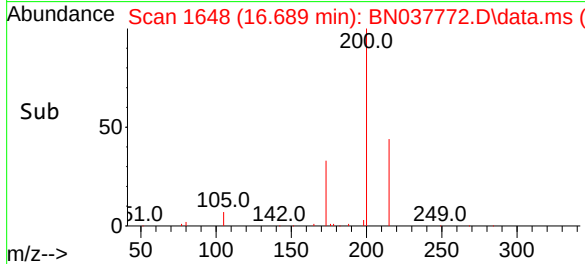
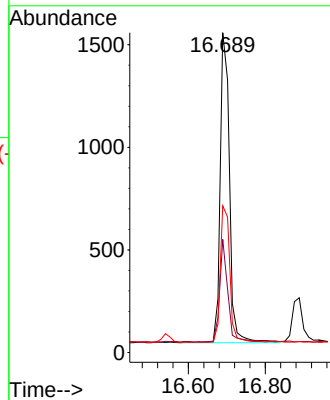
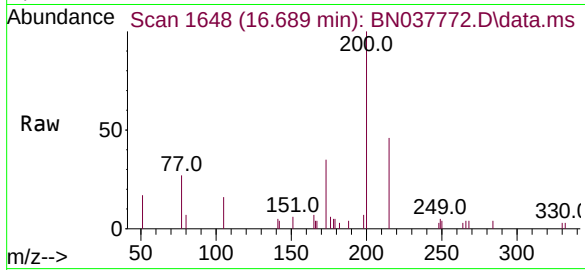
Tgt Ion:200 Resp: 2516

Ion Ratio Lower Upper

200 100

173 35.3 21.4 32.2#

215 45.9 39.2 58.8



#24

Pentachlorophenol

Concen: 0.712 ng

RT: 16.888 min Scan# 1664

Delta R.T. 0.000 min

Lab File: BN037772.D

Acq: 18 Sep 2025 11:48

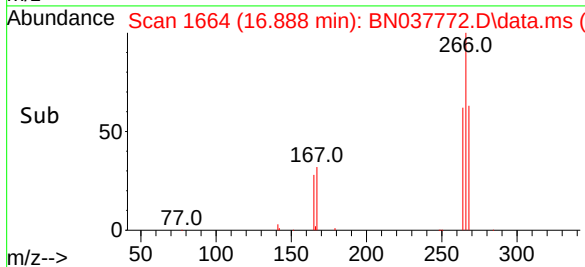
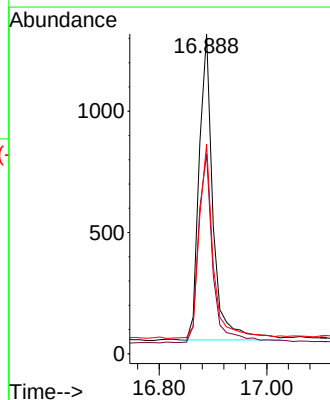
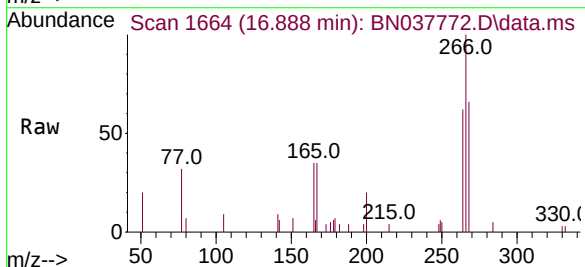
Tgt Ion:266 Resp: 2259

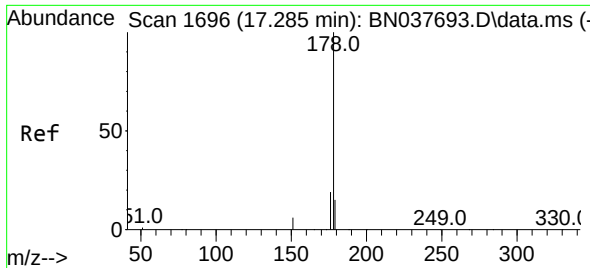
Ion Ratio Lower Upper

266 100

264 64.1 51.6 77.4

268 62.9 53.2 79.8

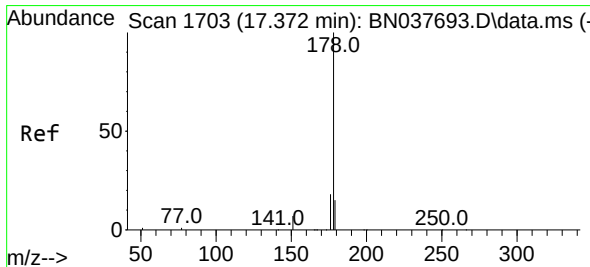
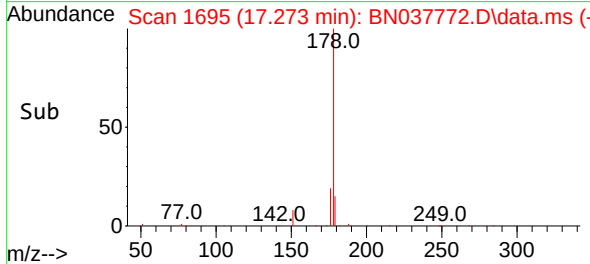
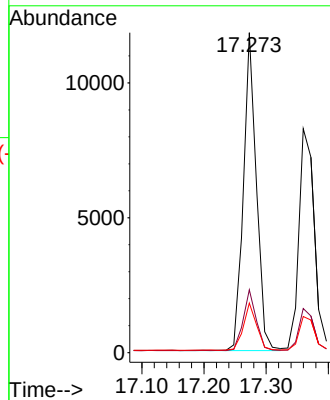
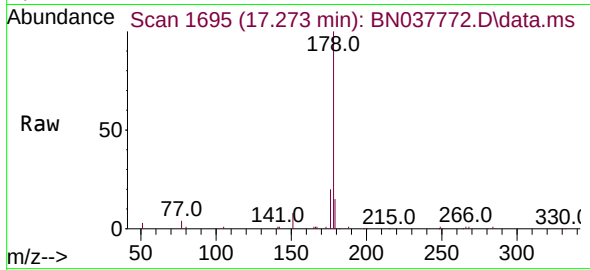




#25
Phenanthrene
Concen: 0.372 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.012 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

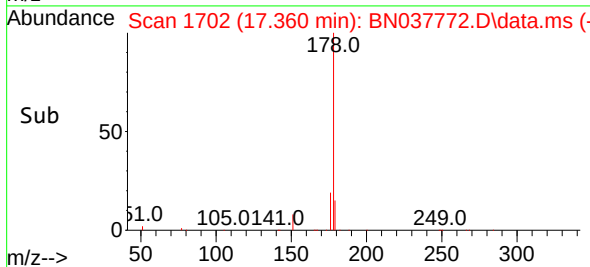
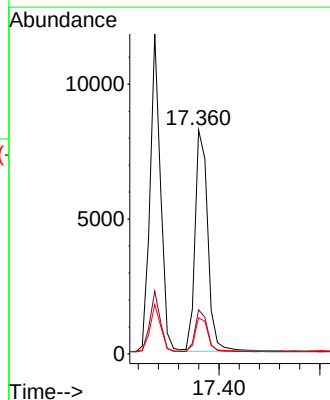
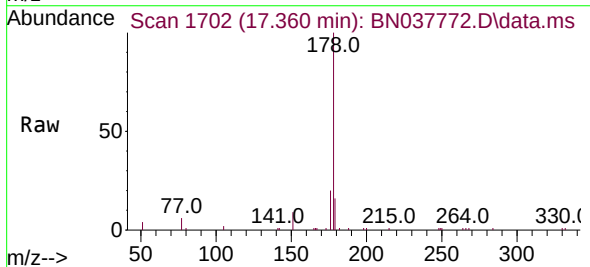
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

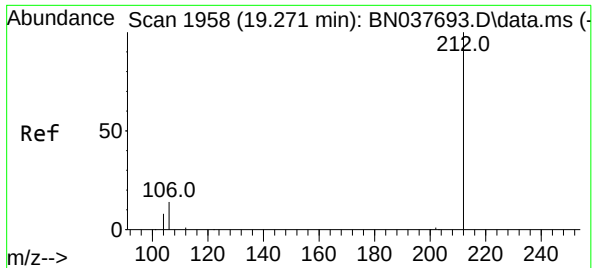
Tgt Ion:178 Resp: 17041
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.2 12.2 18.2



#26
Anthracene
Concen: 0.354 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:178 Resp: 14357
Ion Ratio Lower Upper
178 100
176 18.4 14.6 22.0
179 15.2 12.2 18.4





#27

Fluoranthene-d10

Concen: 0.347 ng

RT: 19.262 min Scan# 1958

Delta R.T. -0.009 min

Lab File: BN037772.D

Acq: 18 Sep 2025 11:48

Instrument :

BNA_N

ClientSampleId :

RE103D2-20250911MS

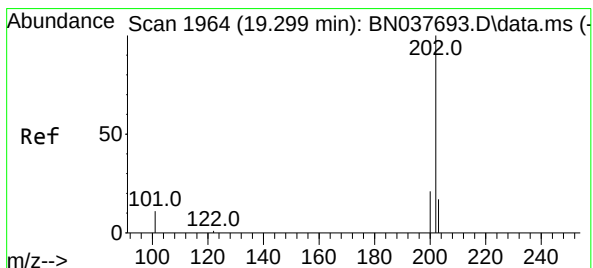
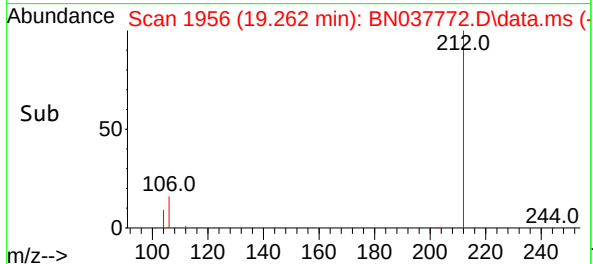
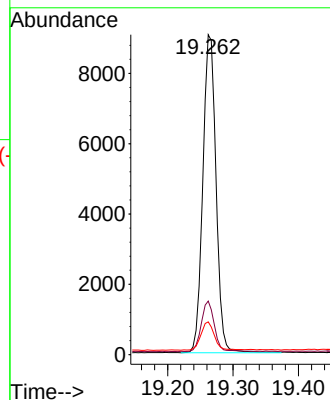
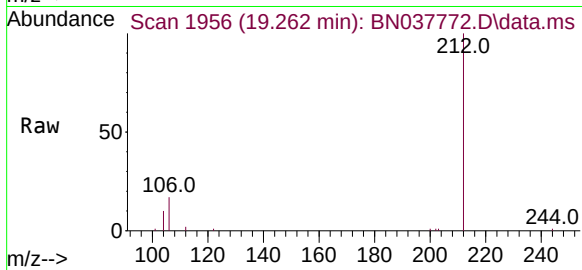
Tgt Ion:212 Resp: 12673

Ion Ratio Lower Upper

212 100

106 15.9 12.2 18.2

104 9.1 6.9 10.3



#28

Fluoranthene

Concen: 0.360 ng

RT: 19.294 min Scan# 1963

Delta R.T. -0.005 min

Lab File: BN037772.D

Acq: 18 Sep 2025 11:48

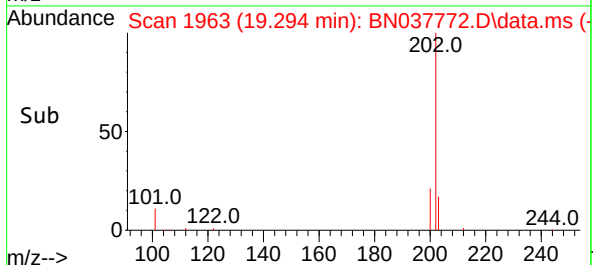
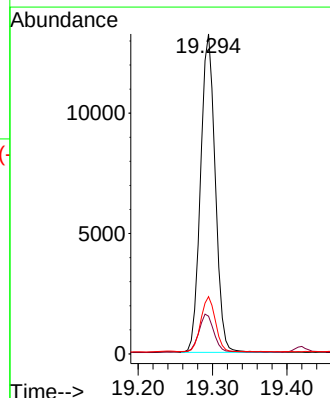
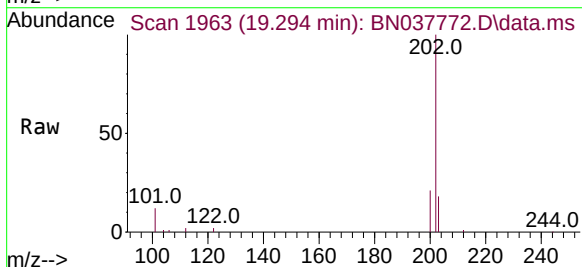
Tgt Ion:202 Resp: 18098

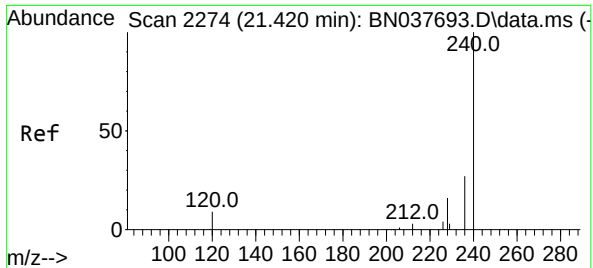
Ion Ratio Lower Upper

202 100

101 12.7 9.3 13.9

203 17.0 13.7 20.5

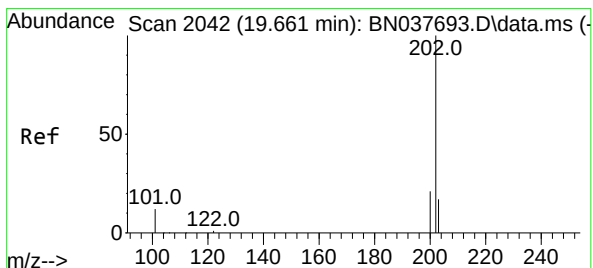
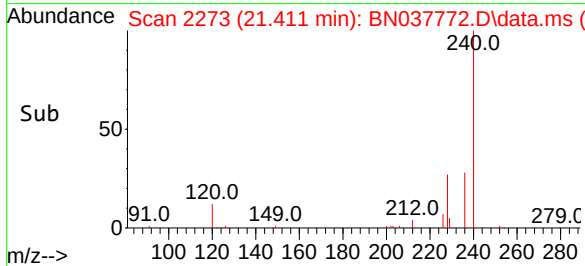
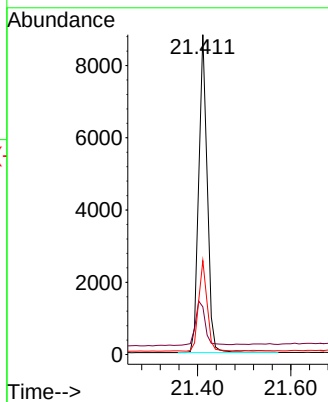
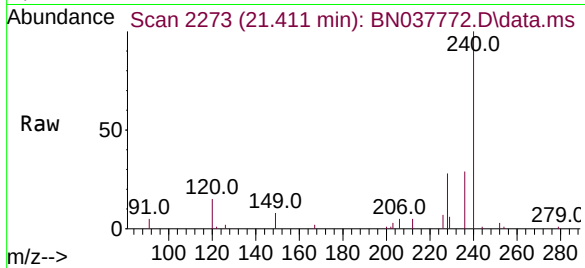




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

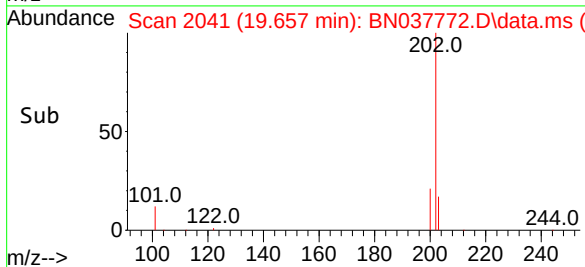
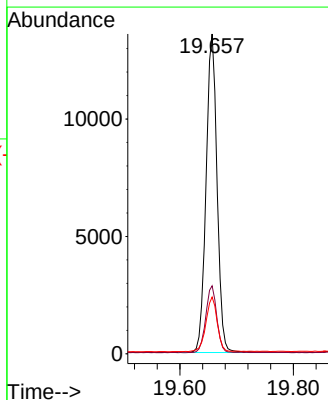
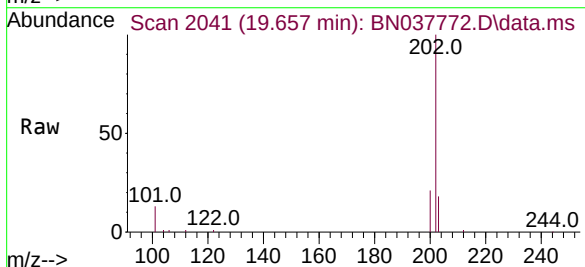
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

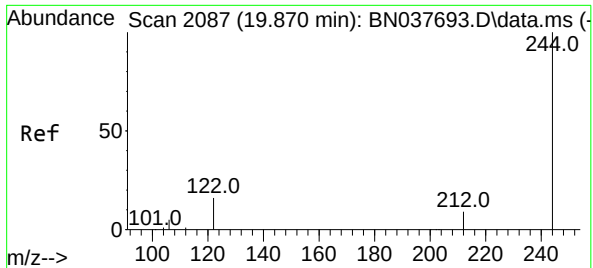
Tgt Ion:240 Resp: 11077
Ion Ratio Lower Upper
240 100
120 14.9 9.2 13.8#
236 29.4 22.6 33.8



#30
Pyrene
Concen: 0.420 ng
RT: 19.657 min Scan# 2041
Delta R.T. -0.005 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:202 Resp: 18207
Ion Ratio Lower Upper
202 100
200 21.0 16.8 25.2
203 17.6 14.3 21.5

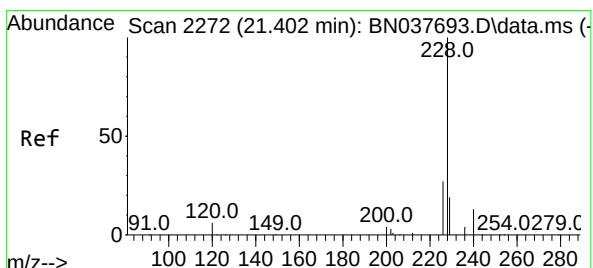
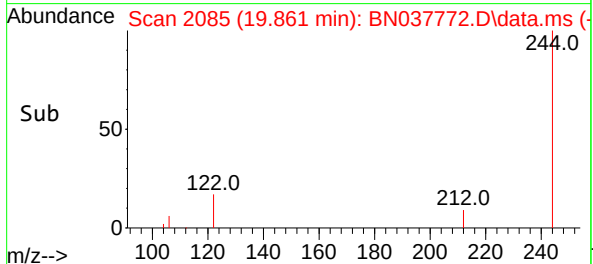
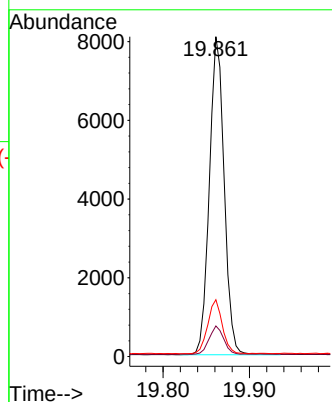
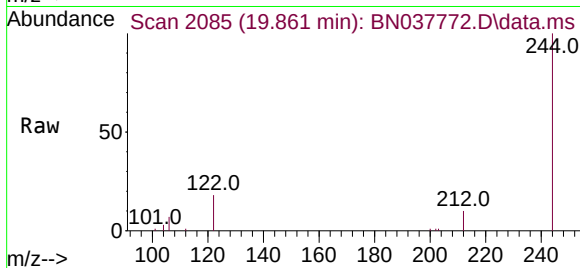




#31
Terphenyl-d14
Concen: 0.428 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

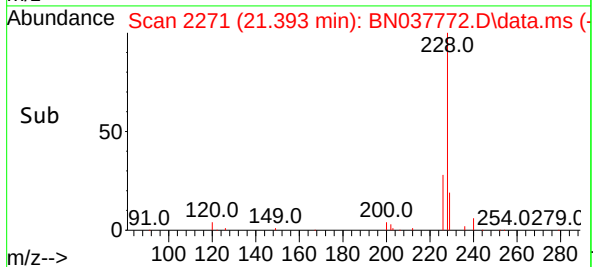
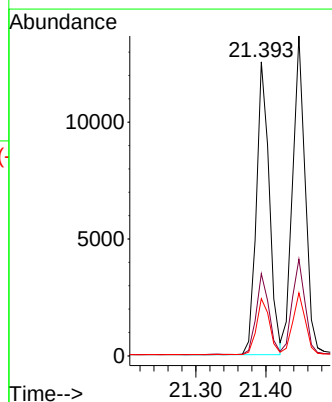
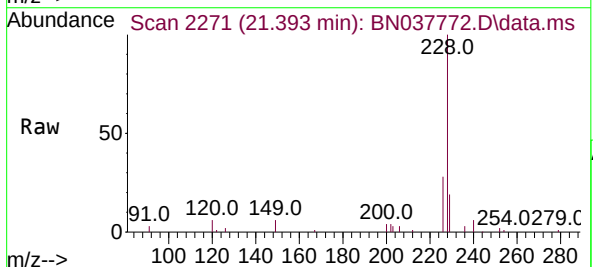
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

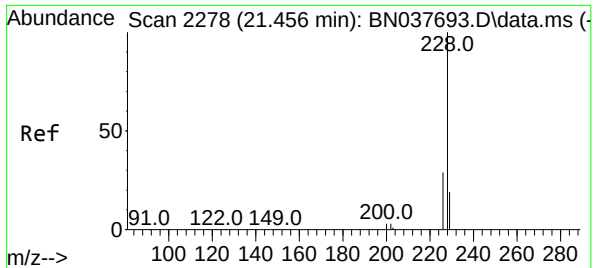
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.5	11.3
122	17.8	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.416 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.2	33.2
229	19.5	15.8	23.6

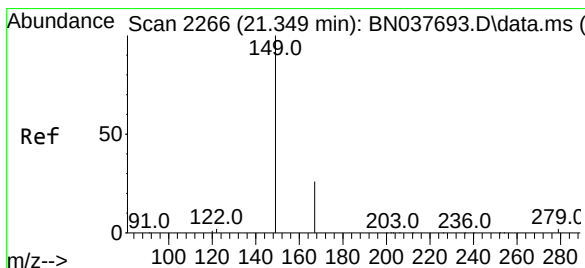
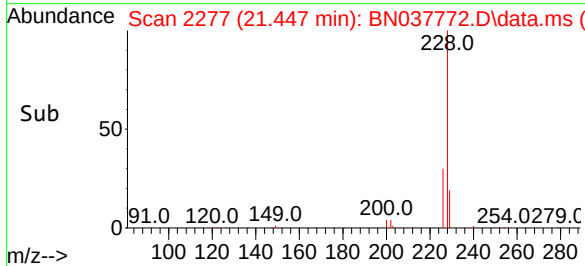
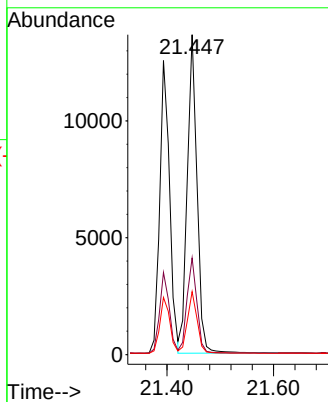
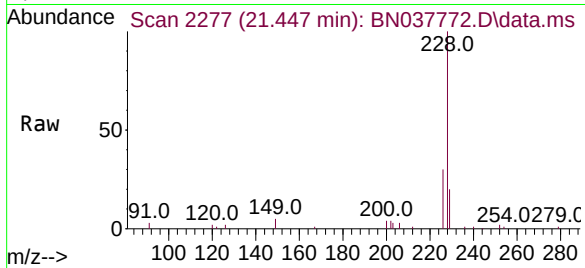




#33
Chrysene
Concen: 0.419 ng
RT: 21.447 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

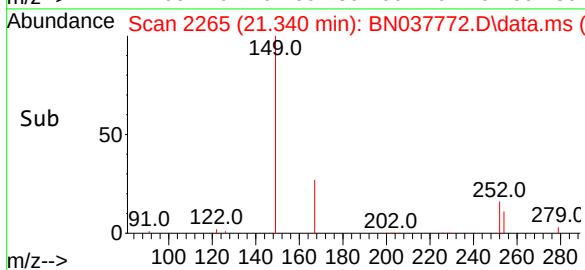
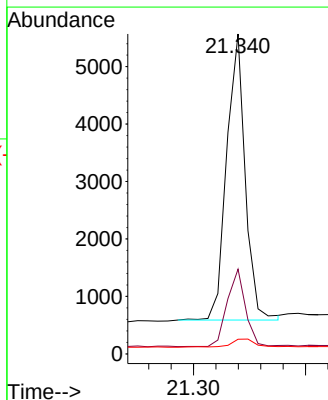
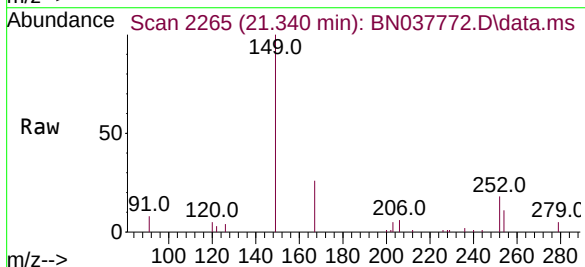
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

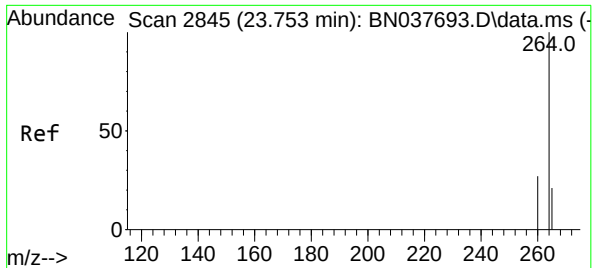
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	23.5	35.3
229	19.7	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.500 ng
RT: 21.340 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.9	20.8	31.2
279	4.0	3.3	4.9

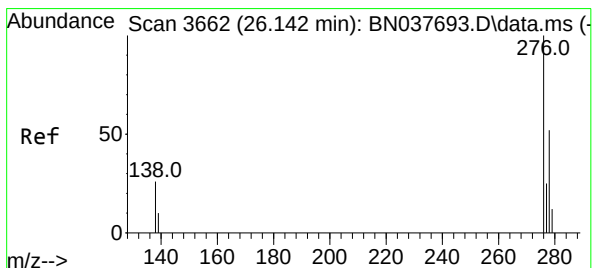
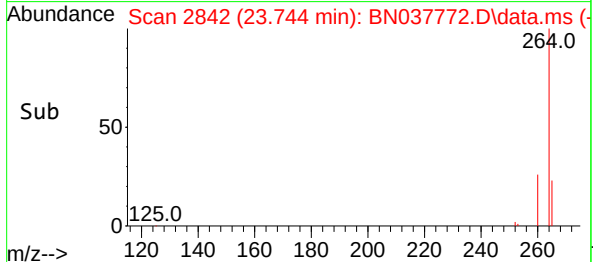
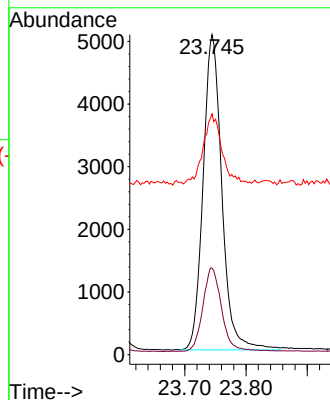
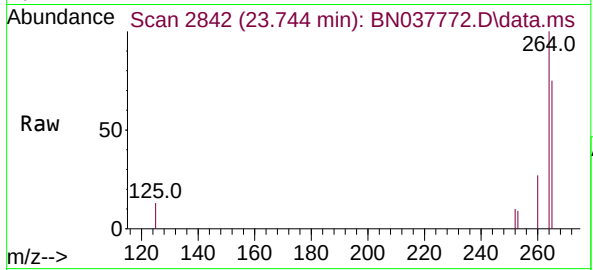




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2845
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

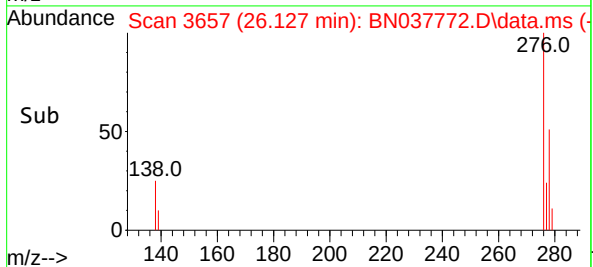
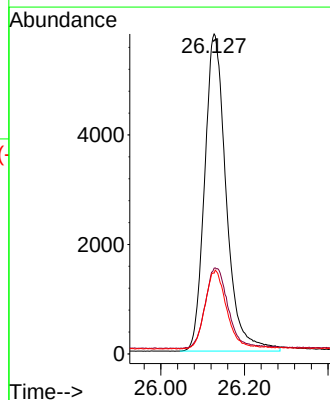
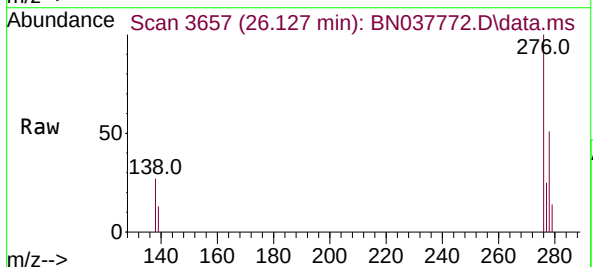
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

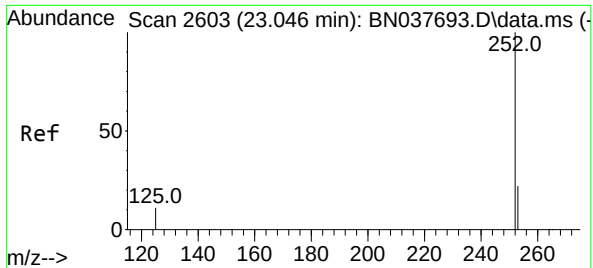
Tgt Ion:264 Resp: 10712
Ion Ratio Lower Upper
264 100
260 27.0 21.8 32.8
265 75.2 39.4 59.2#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.462 ng
RT: 26.127 min Scan# 3657
Delta R.T. -0.015 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:276 Resp: 20796
Ion Ratio Lower Upper
276 100
138 26.7 21.9 32.9
277 24.7 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.428 ng

RT: 23.037 min Scan# 2600

Delta R.T. -0.009 min

Lab File: BN037772.D

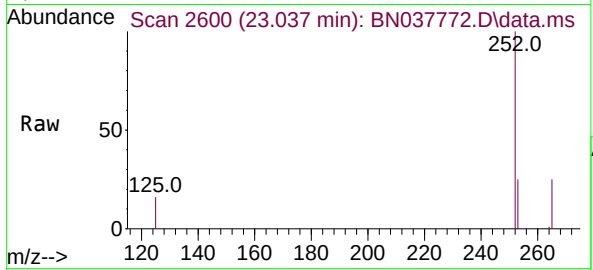
Acq: 18 Sep 2025 11:48

Instrument :

BNA_N

ClientSampleId :

RE103D2-20250911MS



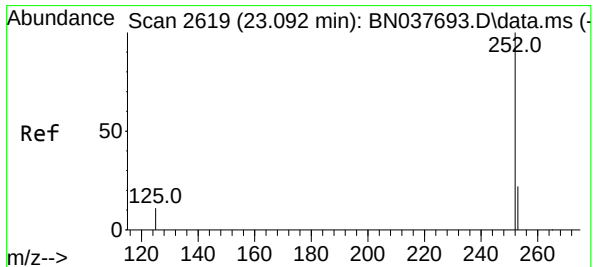
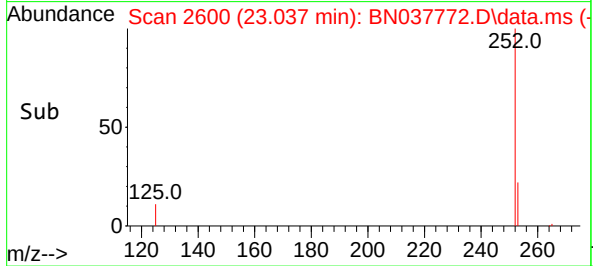
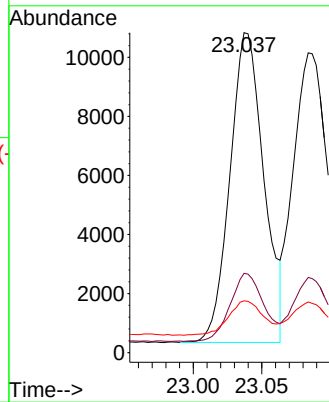
Tgt Ion:252 Resp: 18047

Ion Ratio Lower Upper

252 100

253 24.8 19.4 29.2

125 16.2 11.2 16.8



#38

Benzo(k)fluoranthene

Concen: 0.413 ng

RT: 23.084 min Scan# 2616

Delta R.T. -0.009 min

Lab File: BN037772.D

Acq: 18 Sep 2025 11:48

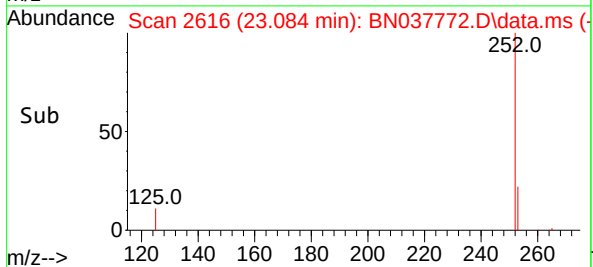
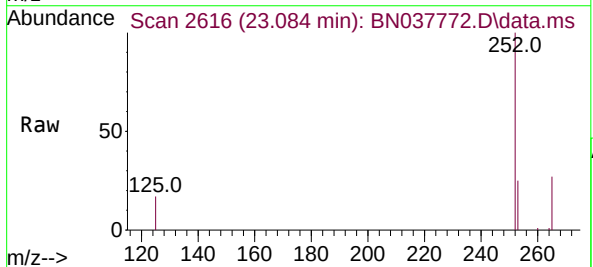
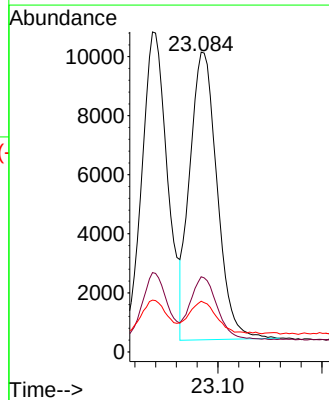
Tgt Ion:252 Resp: 17770

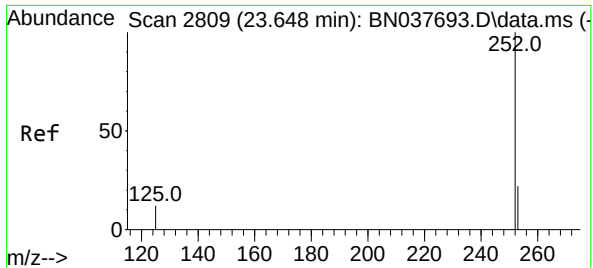
Ion Ratio Lower Upper

252 100

253 25.1 19.4 29.0

125 16.9 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.420 ng

RT: 23.642 min Scan# 2807

Delta R.T. -0.006 min

Lab File: BN037772.D

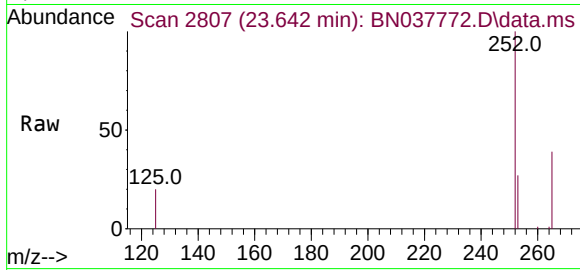
Acq: 18 Sep 2025 11:48

Instrument :

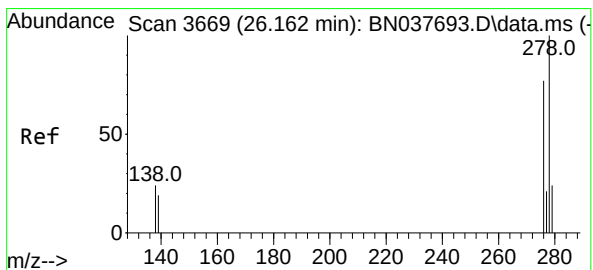
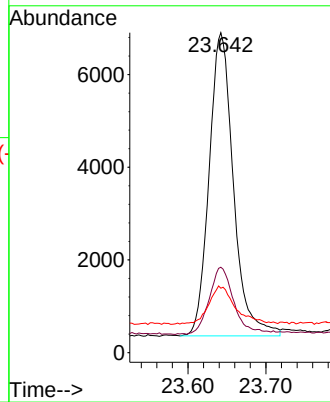
BNA_N

ClientSampleId :

RE103D2-20250911MS



Tgt Ion:	252	Resp:	14195
Ion Ratio	Lower	Upper	
252	100		
253	26.7	20.8	31.2
125	20.1	13.9	20.9



#40

Dibenzo(a,h)anthracene

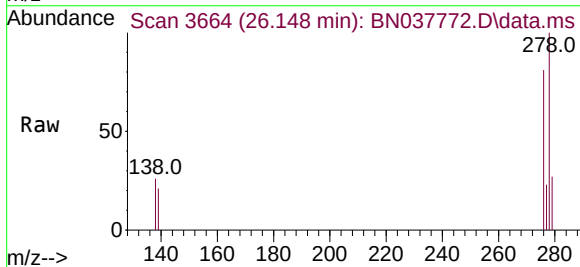
Concen: 0.458 ng

RT: 26.148 min Scan# 3664

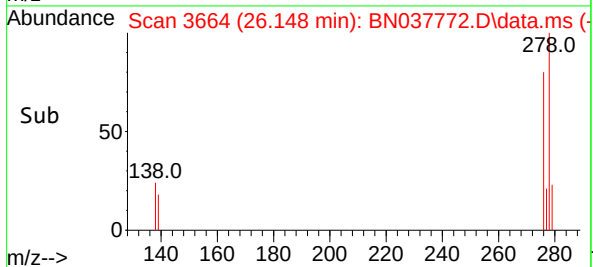
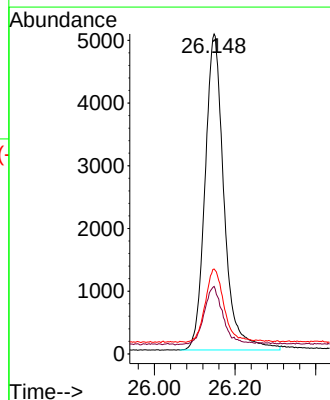
Delta R.T. -0.015 min

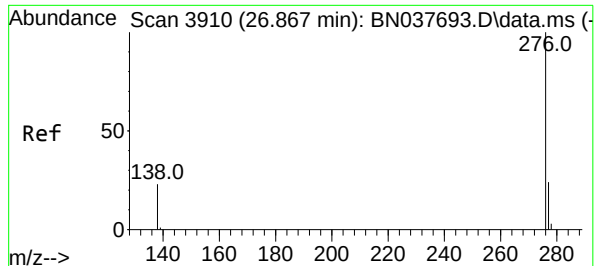
Lab File: BN037772.D

Acq: 18 Sep 2025 11:48



Tgt Ion:	278	Resp:	16460
Ion Ratio	Lower	Upper	
278	100		
139	21.1	17.8	26.6
279	26.5	22.0	33.0





#41

Benzo(g,h,i)perylene

Concen: 0.435 ng

RT: 26.855 min Scan# 39

Delta R.T. -0.012 min

Lab File: BN037772.D

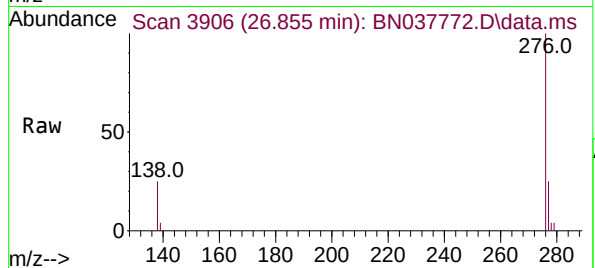
Acq: 18 Sep 2025 11:48

Instrument :

BNA_N

ClientSampleId :

RE103D2-20250911MS



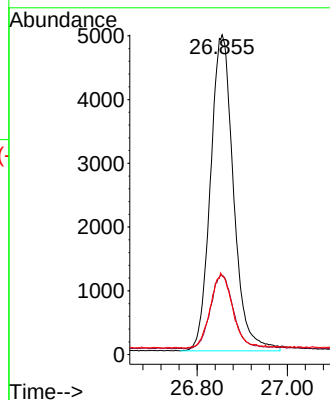
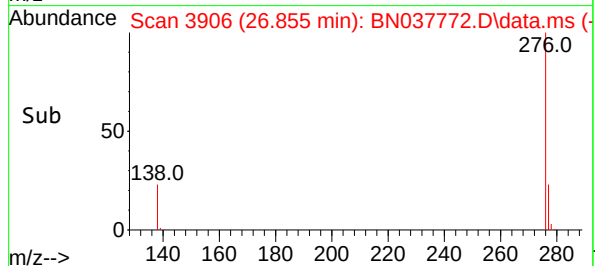
Tgt Ion:276 Resp: 17542

Ion Ratio Lower Upper

276 100

277 24.8 20.6 31.0

138 24.5 20.2 30.2



Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	09/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/12/25
Client Sample ID:	MW203D2-20250909MSD		SDG No.:	Q3095
Lab Sample ID:	Q3095-07MSD		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
BN037744.D	1	09/15/25 10:15	09/17/25 13:59	PB169692

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.96		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		74%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		83%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		79%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		99%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7570	7.847				
1146-65-2	Naphthalene-d8	20900	10.648				
15067-26-2	Acenaphthene-d10	9820	14.494				
1517-22-2	Phenanthrene-d10	17000	17.235				
1719-03-5	Chrysene-d12	14300	21.42				
1520-96-3	Perylene-d12	14000	23.756				

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\BN091725\
 Data File : BN037744.D
 Acq On : 17 Sep 2025 13:59
 Operator : RC/JU
 Sample : Q3095-07MSD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW203D2-20250909MSD

Quant Time: Sep 17 14:31:09 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

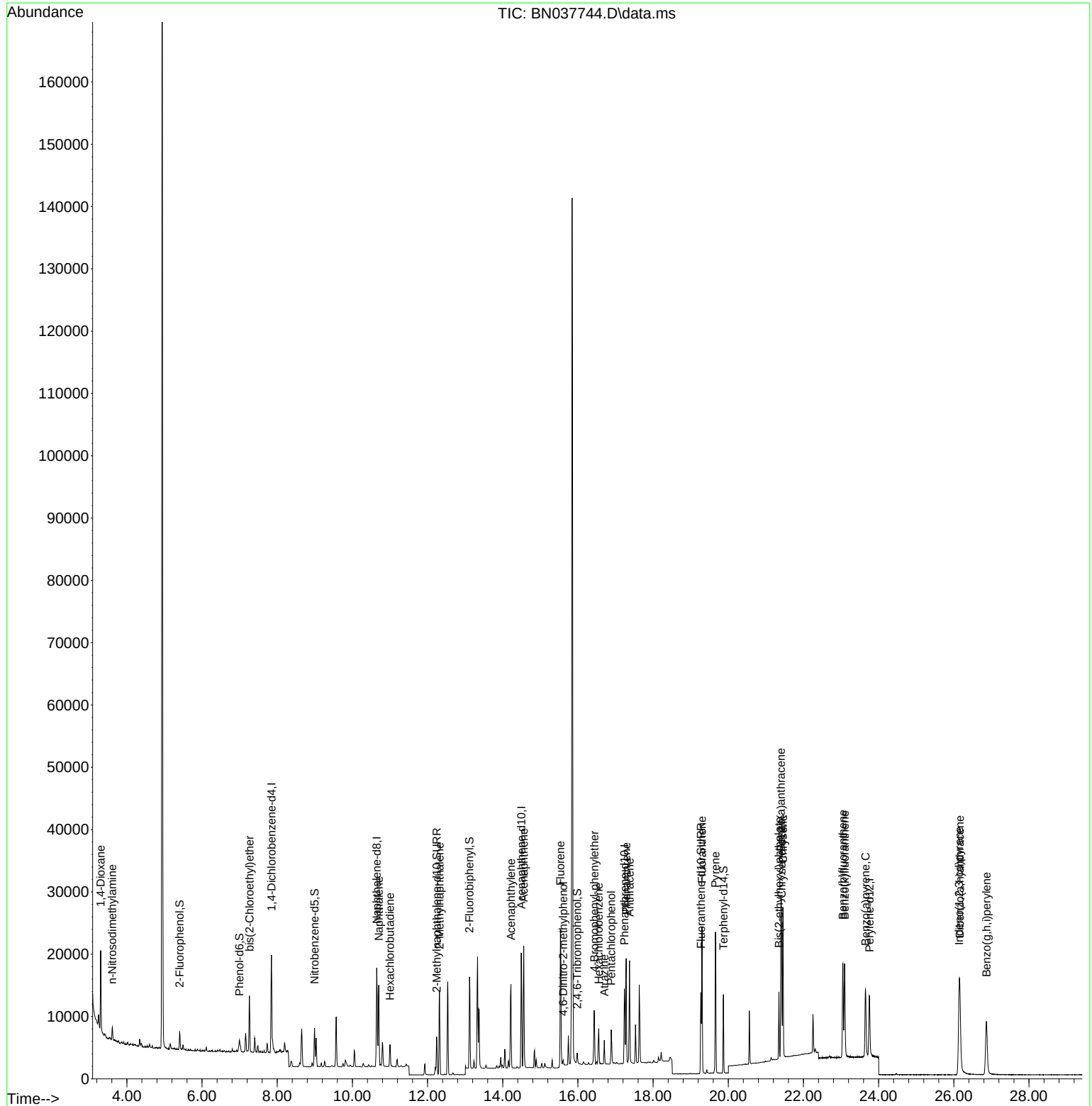
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.847	152	7569	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	20880	0.400	ng	0.00
13) Acenaphthene-d10	14.494	164	9823	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	16954	0.400	ng	0.00
29) Chrysene-d12	21.420	240	14253	0.400	ng	0.00
35) Perylene-d12	23.756	264	13967	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.406	112	2212	0.127	ng	0.00
5) Phenol-d6	6.995	99	1709	0.076	ng	0.00
8) Nitrobenzene-d5	8.993	82	4607	0.302	ng	0.00
11) 2-Methylnaphthalene-d10	12.243	152	8165	0.295	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	1013	0.395	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	13067	0.318	ng	0.00
27) Fluoranthene-d10	19.271	212	14031	0.330	ng	0.00
31) Terphenyl-d14	19.870	244	11475	0.397	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.304	88	7552	0.958	ng	95
3) n-Nitrosodimethylamine	3.608	42	1209	0.117	ng	# 81
6) bis(2-Chloroethyl)ether	7.262	93	6223	0.309	ng	98
9) Naphthalene	10.701	128	16698	0.293	ng	100
10) Hexachlorobutadiene	11.000	225	2575	0.249	ng	# 99
12) 2-Methylnaphthalene	12.319	142	9478	0.268	ng	97
16) Acenaphthylene	14.217	152	15433	0.343	ng	99
17) Acenaphthene	14.559	154	9606	0.315	ng	99
18) Fluorene	15.535	166	11771	0.319	ng	99
20) 4,6-Dinitro-2-methylph...	15.609	198	553	0.352	ng	86
21) 4-Bromophenyl-phenylether	16.441	248	3888	0.352	ng	99
22) Hexachlorobenzene	16.553	284	4480	0.352	ng	96
23) Atrazine	16.702	200	2705	0.385	ng	96
24) Pentachlorophenol	16.888	266	2781	0.753	ng	98
25) Phenanthrene	17.285	178	18751	0.351	ng	99
26) Anthracene	17.372	178	16950	0.358	ng	99
28) Fluoranthene	19.299	202	20168	0.345	ng	99
30) Pyrene	19.661	202	20353	0.365	ng	100
32) Benzo(a)anthracene	21.402	228	18881	0.380	ng	100
33) Chrysene	21.456	228	19830	0.372	ng	99
34) Bis(2-ethylhexyl)phtha...	21.349	149	9422	0.639	ng	# 99
36) Indeno(1,2,3-cd)pyrene	26.139	276	23199	0.395	ng	98
37) Benzo(b)fluoranthene	23.049	252	20529	0.373	ng	99
38) Benzo(k)fluoranthene	23.095	252	20752	0.370	ng	99
39) Benzo(a)pyrene	23.651	252	17627	0.400	ng	99
40) Dibenzo(a,h)anthracene	26.159	278	18232	0.389	ng	96
41) Benzo(g,h,i)perylene	26.867	276	19707	0.375	ng	98

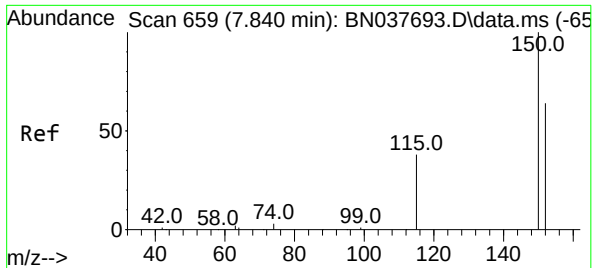
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037744.D
Acq On : 17 Sep 2025 13:59
Operator : RC/JU
Sample : Q3095-07MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MSD

Quant Time: Sep 17 14:31:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

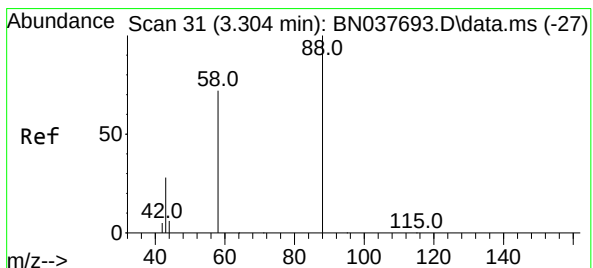
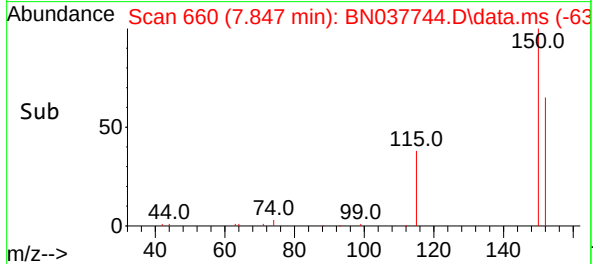
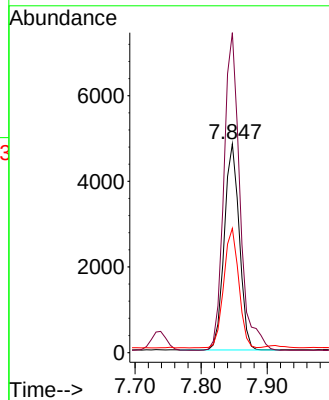
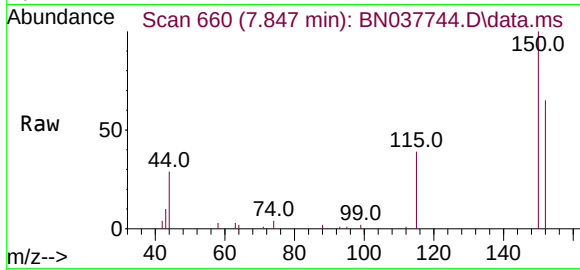




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.847 min Scan# 60
Delta R.T. 0.007 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

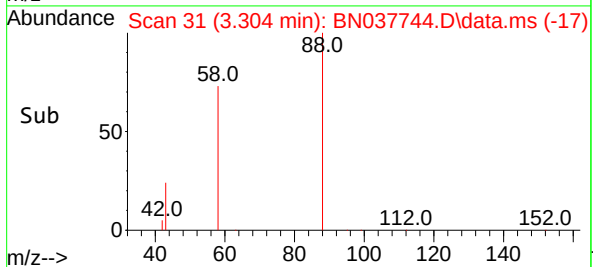
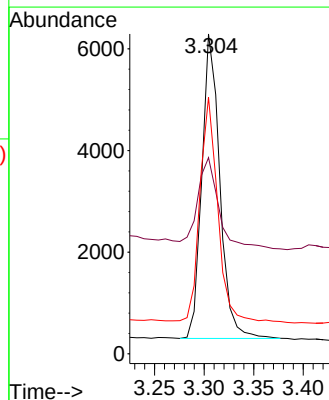
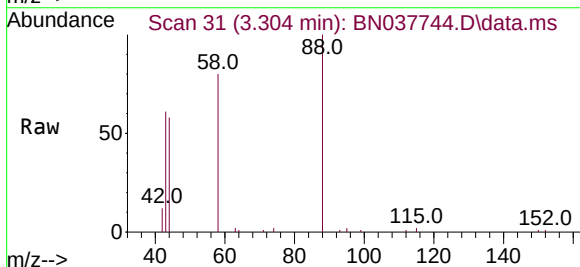
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MSD

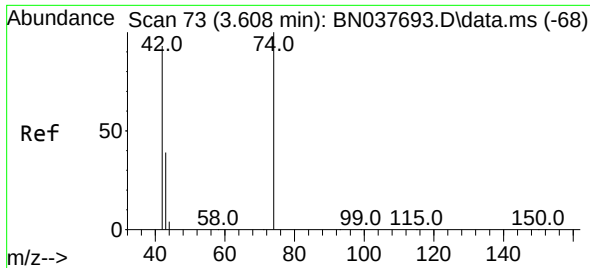
Tgt Ion:152 Resp: 7569
Ion Ratio Lower Upper
152 100
150 153.3 124.5 186.7
115 59.5 49.2 73.8



#2
1,4-Dioxane
Concen: 0.958 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion: 88 Resp: 7552
Ion Ratio Lower Upper
88 100
43 35.3 26.8 40.2
58 72.3 61.9 92.9

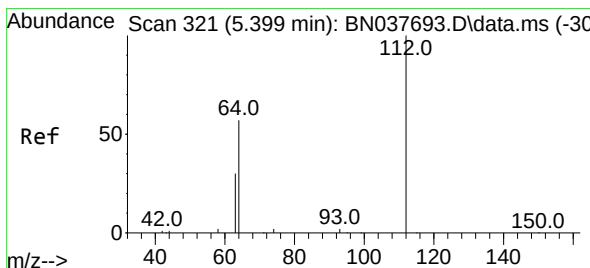
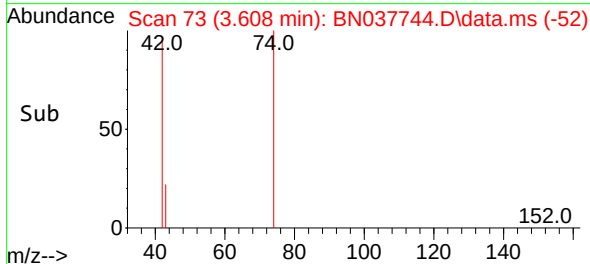
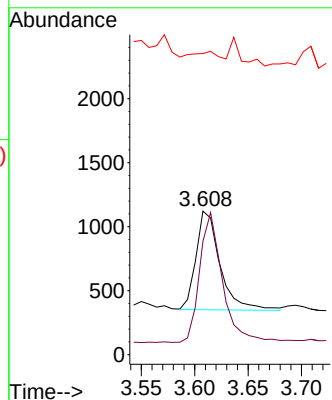
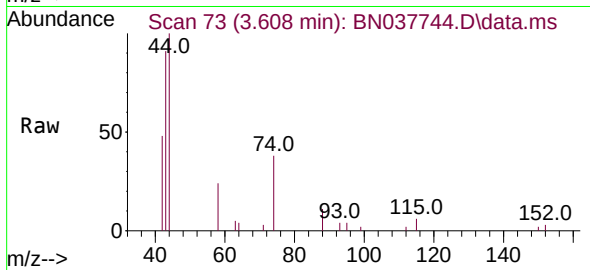




#3
n-Nitrosodimethylamine
Concen: 0.117 ng
RT: 3.608 min Scan# 73
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

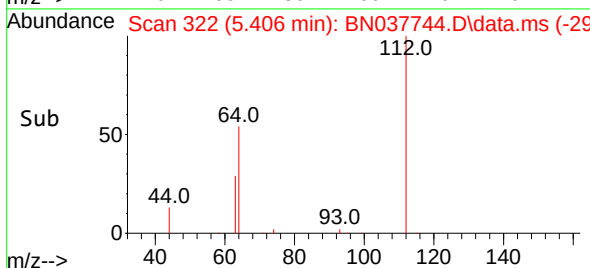
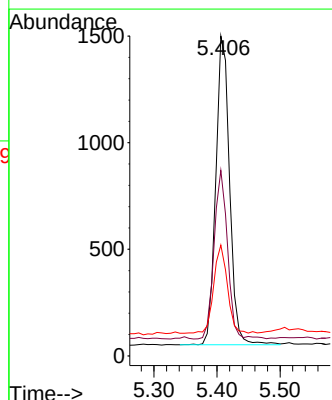
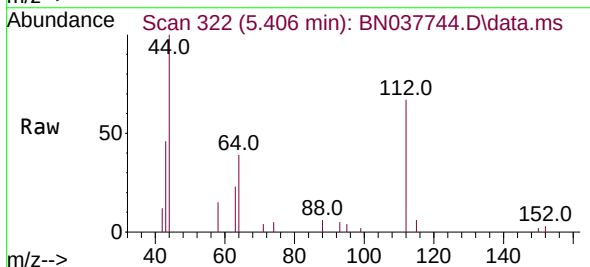
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MSD

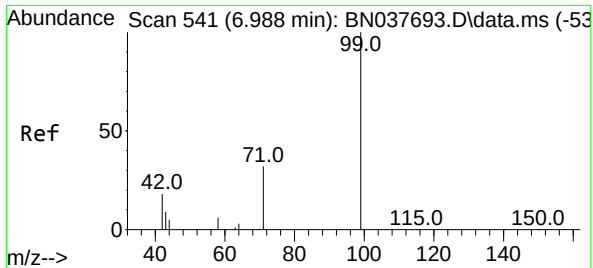
Tgt Ion: 42 Resp: 1209
Ion Ratio Lower Upper
42 100
74 126.8 86.0 129.0
44 0.0 8.4 12.6#



#4
2-Fluorophenol
Concen: 0.127 ng
RT: 5.406 min Scan# 322
Delta R.T. 0.007 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion: 112 Resp: 2212
Ion Ratio Lower Upper
112 100
64 53.4 44.9 67.3
63 28.3 24.7 37.1

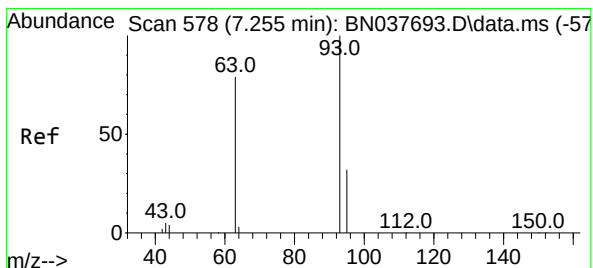
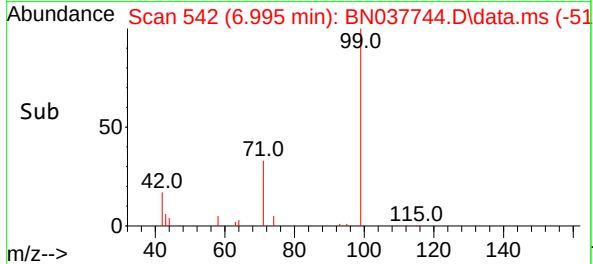
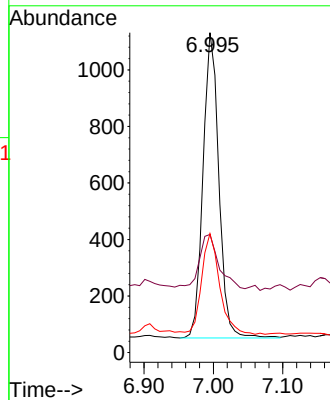
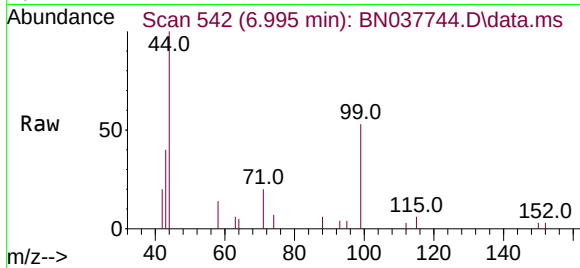




#5
Phenol-d6
Concen: 0.076 ng
RT: 6.995 min Scan# 541
Delta R.T. 0.007 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

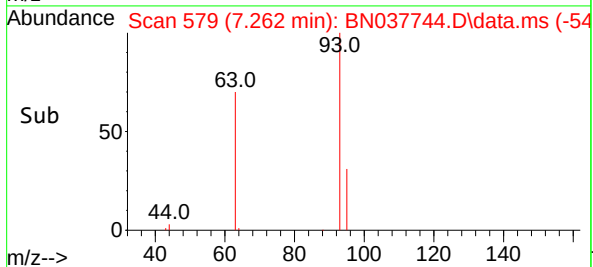
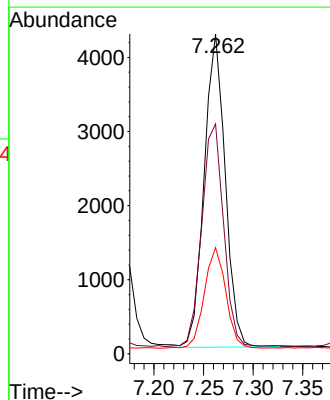
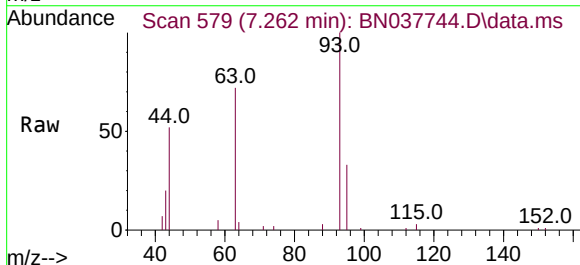
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MSD

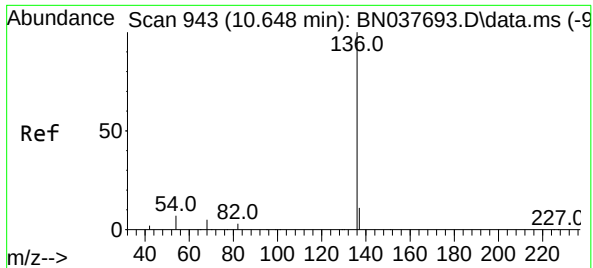
Tgt Ion: 99 Resp: 1709
Ion Ratio Lower Upper
99 100
42 22.0 16.6 24.8
71 37.4 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.309 ng
RT: 7.262 min Scan# 579
Delta R.T. 0.007 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion: 93 Resp: 6223
Ion Ratio Lower Upper
93 100
63 74.0 60.6 90.8
95 32.9 26.0 39.0

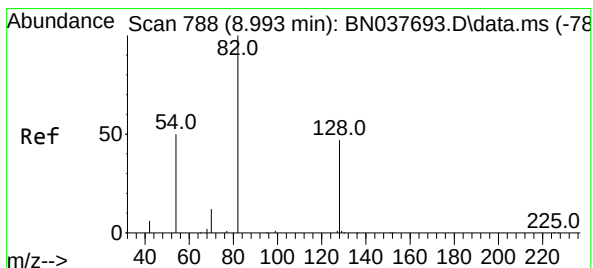
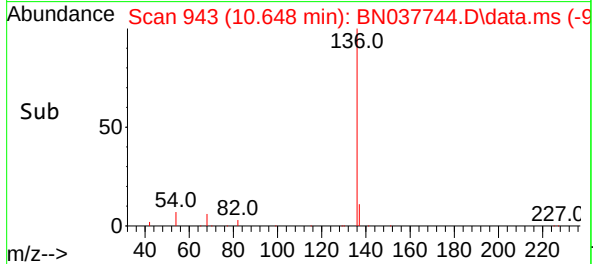
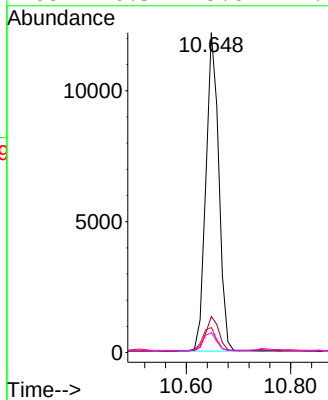
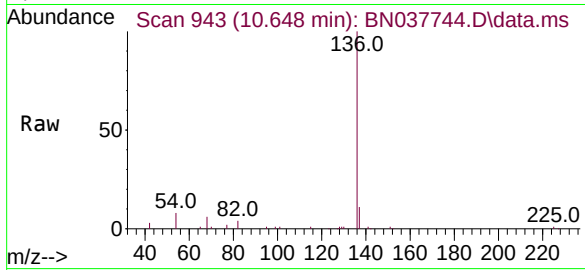




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

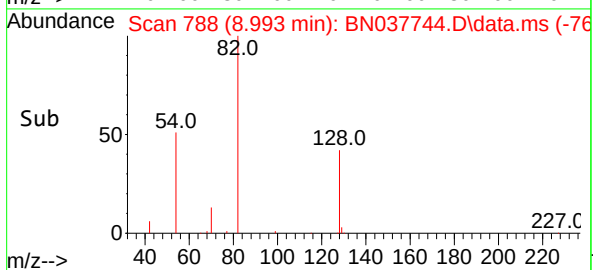
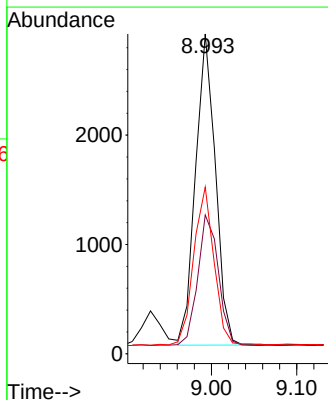
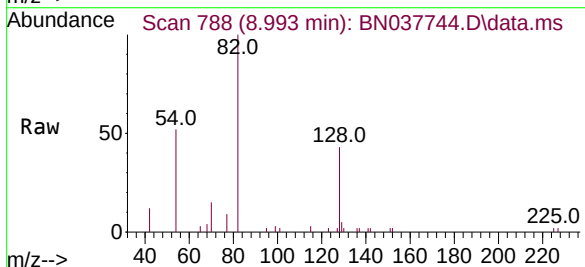
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MSD

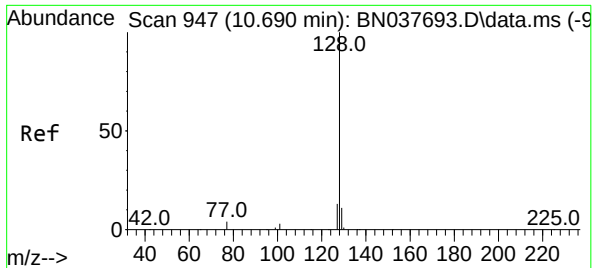
Tgt Ion:	136	Resp:	20880
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.1	13.7
54	7.8	6.3	9.5
68	6.3	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.302 ng
RT: 8.993 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion:	82	Resp:	4607
Ion Ratio	Lower	Upper	
82	100		
128	43.4	38.3	57.5
54	52.1	41.4	62.2

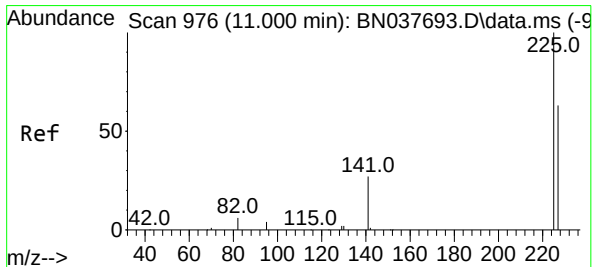
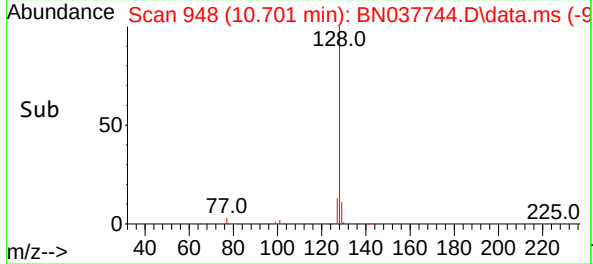
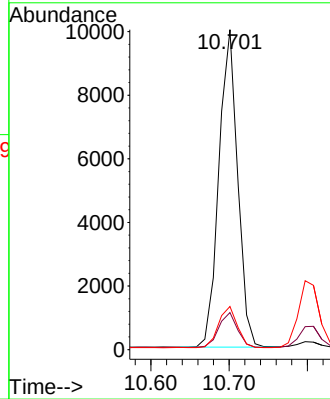
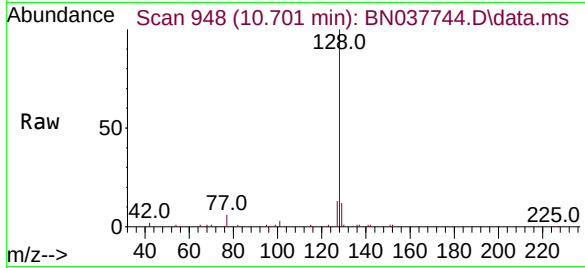




#9
Naphthalene
Concen: 0.293 ng
RT: 10.701 min Scan# 948
Delta R.T. 0.011 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

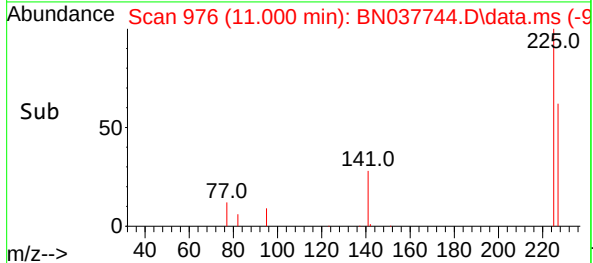
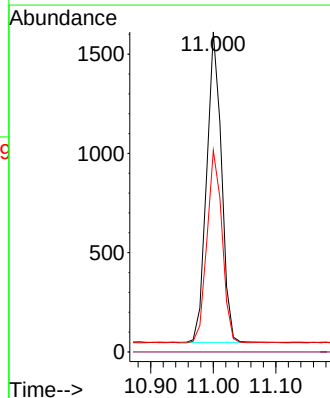
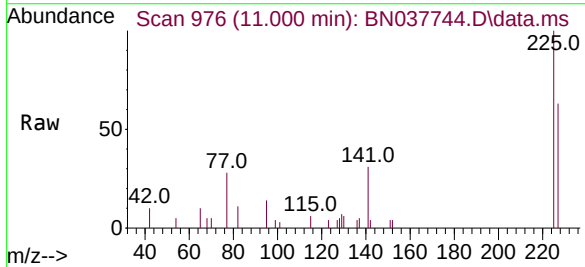
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MSD

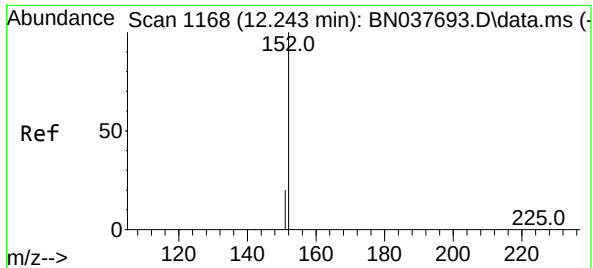
Tgt Ion:	128	Resp:	16698
Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.1	13.7
127	13.5	10.9	16.3



#10
Hexachlorobutadiene
Concen: 0.249 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion:	225	Resp:	2575
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.8	50.9	76.3

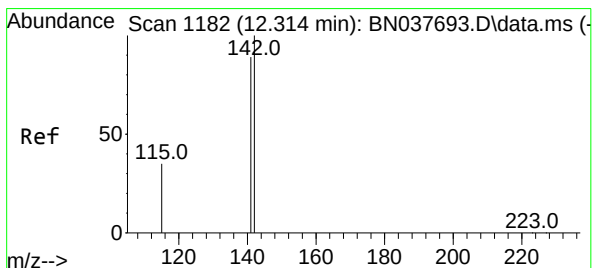
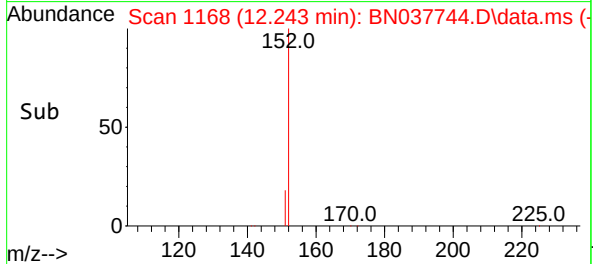
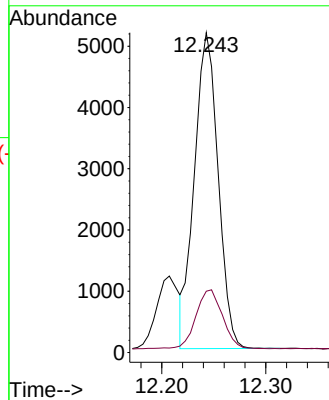
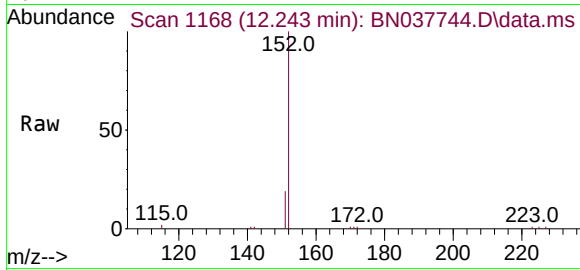




#11
2-Methylnaphthalene-d10
Concen: 0.295 ng
RT: 12.243 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

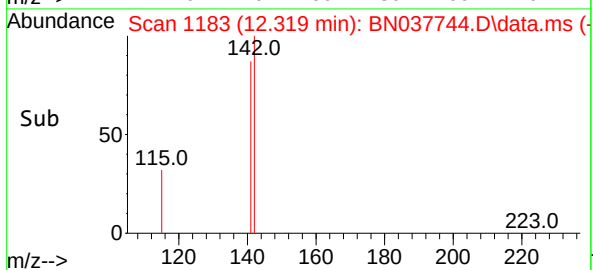
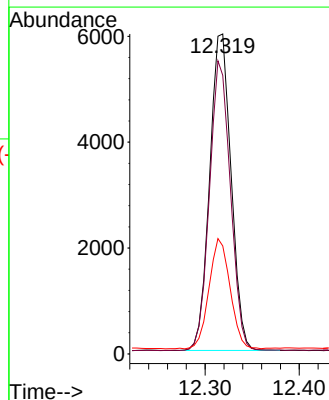
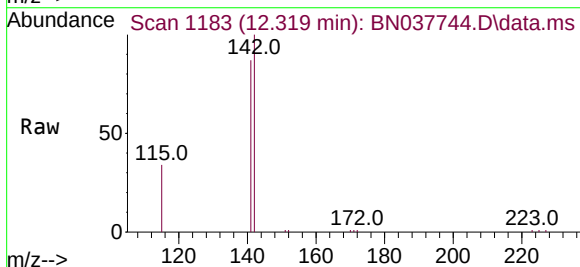
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MSD

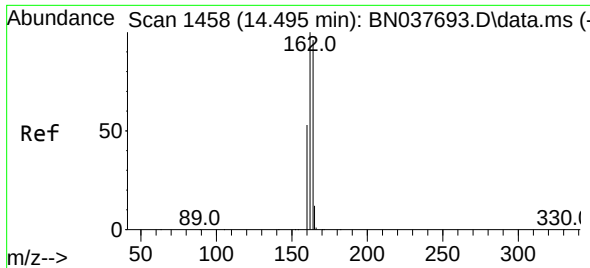
Tgt Ion:152 Resp: 8165
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.268 ng
RT: 12.319 min Scan# 1183
Delta R.T. 0.005 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion:142 Resp: 9478
Ion Ratio Lower Upper
142 100
141 87.0 71.6 107.4
115 33.7 28.6 43.0

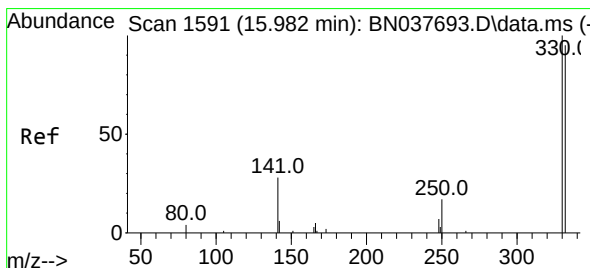
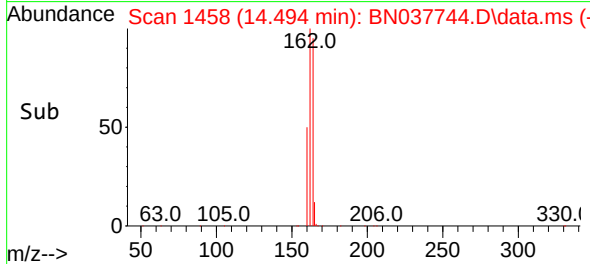
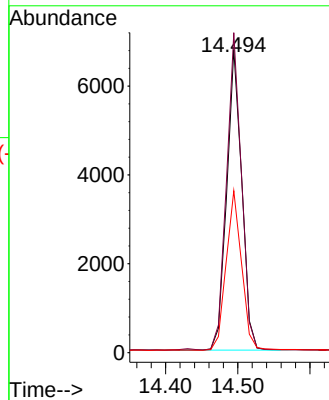
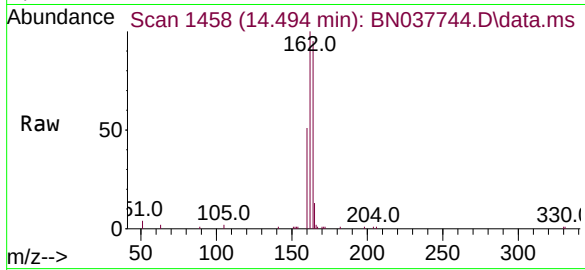




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

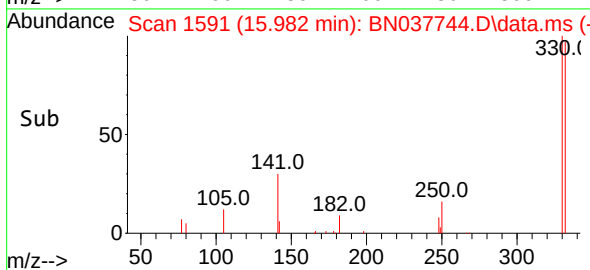
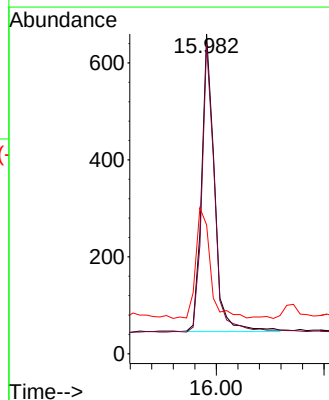
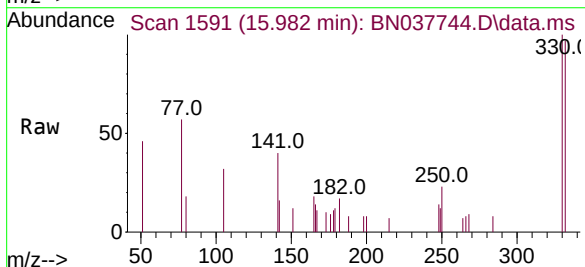
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MSD

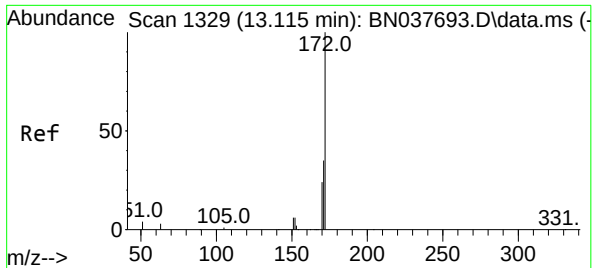
Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.6	83.1	124.7
160	53.4	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.395 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.6	75.3	112.9
141	41.9	35.0	52.4

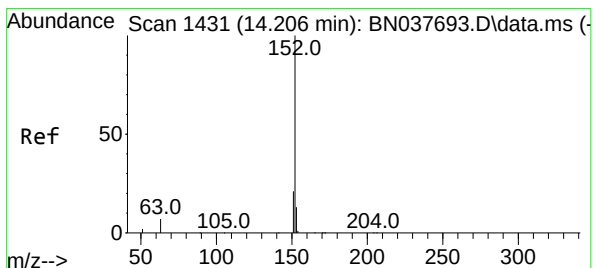
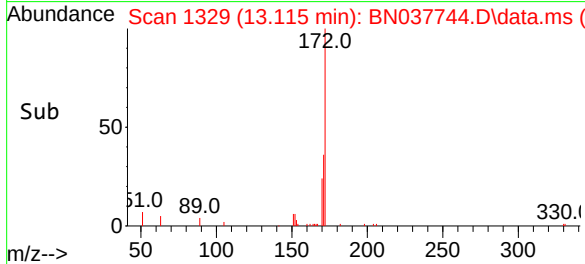
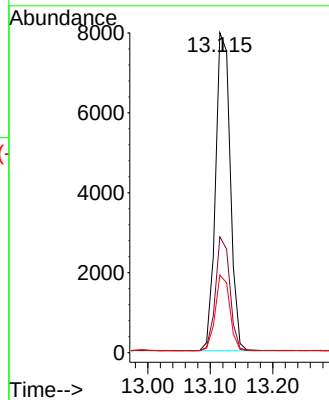
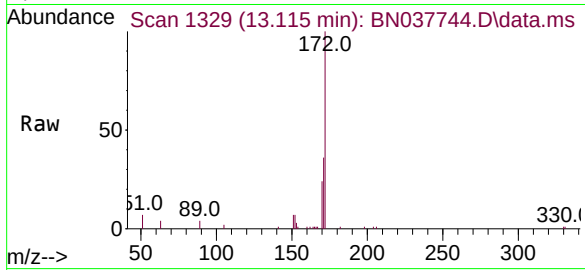




#15
2-Fluorobiphenyl
Concen: 0.318 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

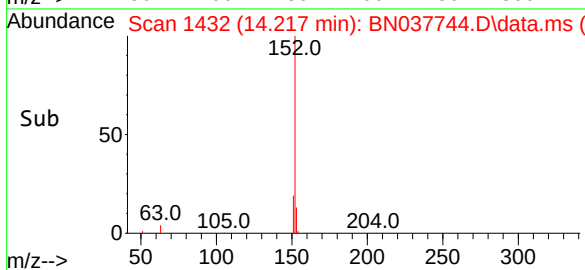
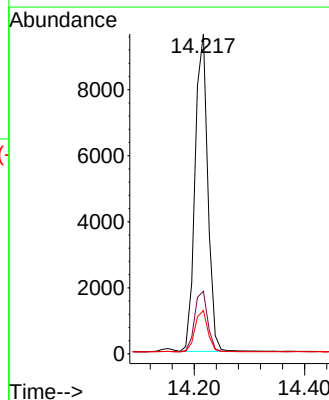
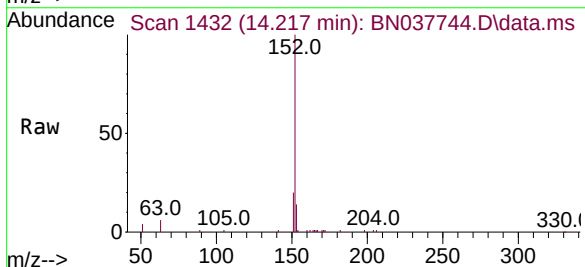
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MSD

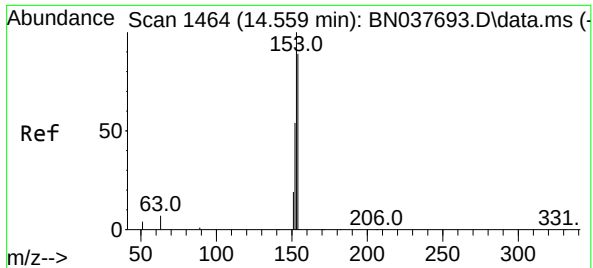
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.6	43.0
170	24.2	19.8	29.8



#16
Acenaphthylene
Concen: 0.343 ng
RT: 14.217 min Scan# 1432
Delta R.T. 0.011 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.2	24.2
153	13.2	10.4	15.6

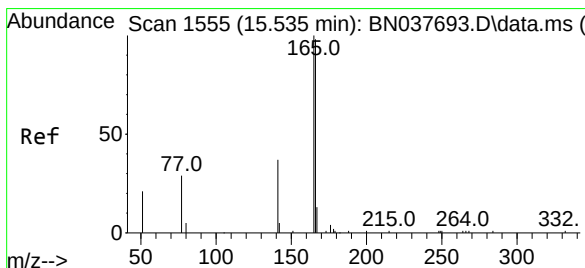
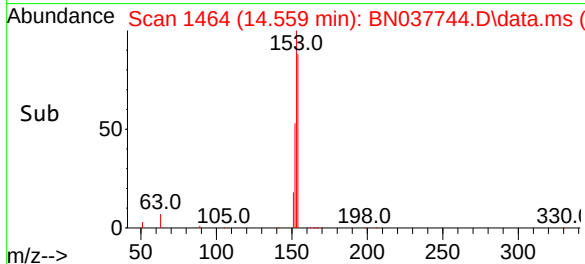
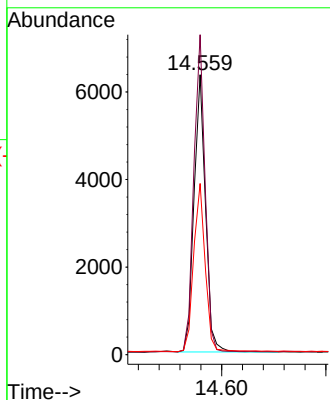
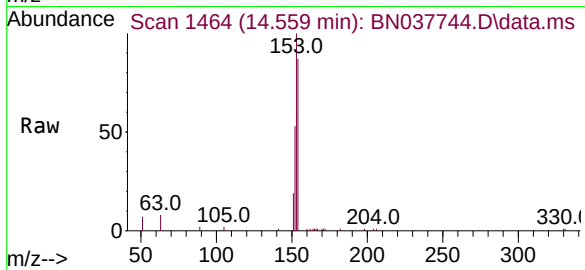




#17
Acenaphthene
Concen: 0.315 ng
RT: 14.559 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

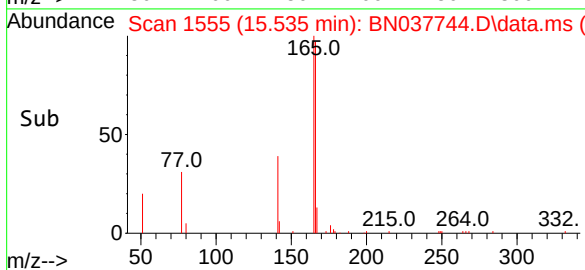
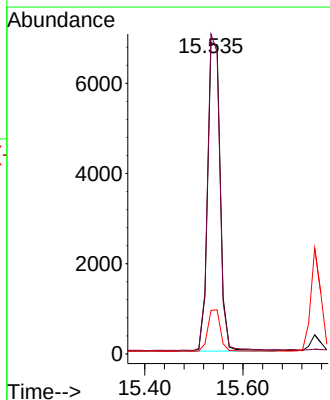
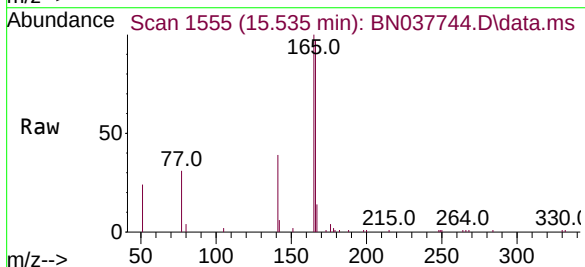
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MSD

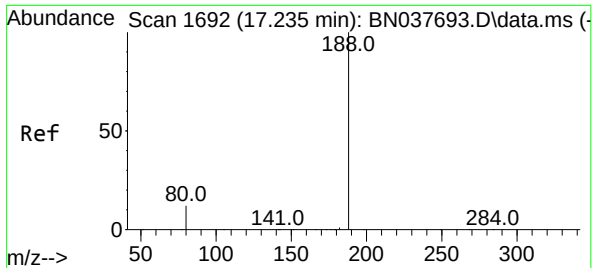
Tgt Ion	154	Resp	9606
Ion Ratio	Lower	Upper	
154	100		
153	112.1	89.8	134.8
152	61.8	50.2	75.2



#18
Fluorene
Concen: 0.319 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion	166	Resp	11771
Ion Ratio	Lower	Upper	
166	100		
165	100.1	79.6	119.4
167	13.8	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037744.D

Acq: 17 Sep 2025 13:59

Instrument :

BNA_N

ClientSampleId :

MW203D2-20250909MSD

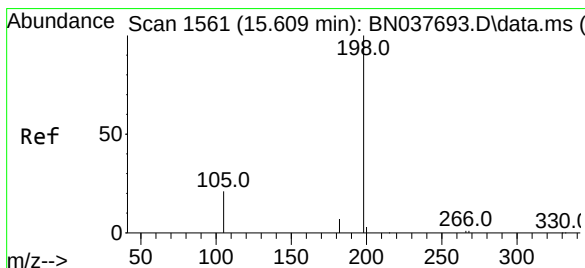
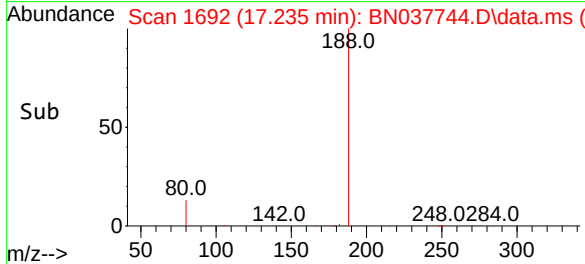
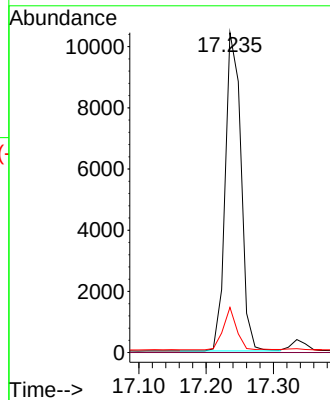
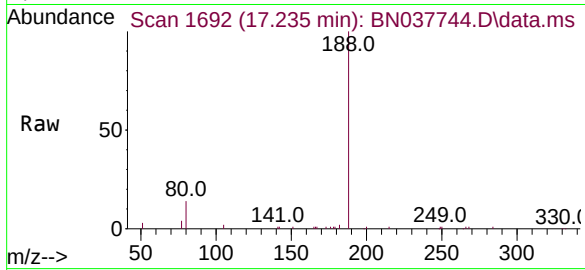
Tgt Ion:188 Resp: 16954

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.1 10.6 15.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.352 ng

RT: 15.609 min Scan# 1561

Delta R.T. 0.000 min

Lab File: BN037744.D

Acq: 17 Sep 2025 13:59

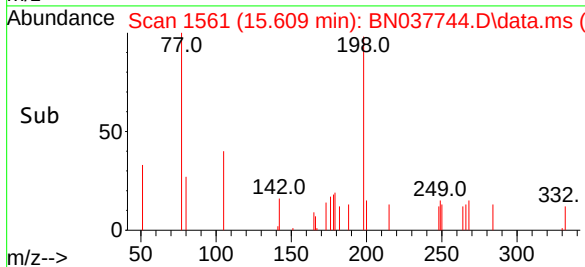
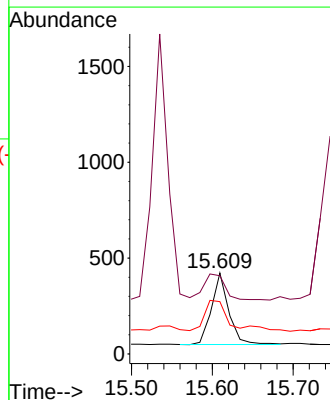
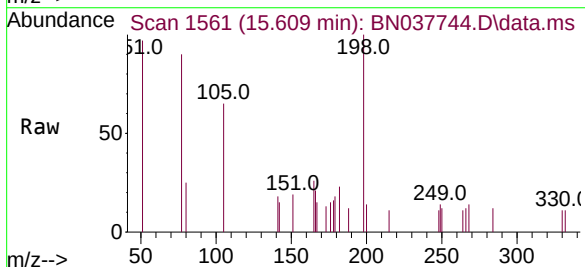
Tgt Ion:198 Resp: 553

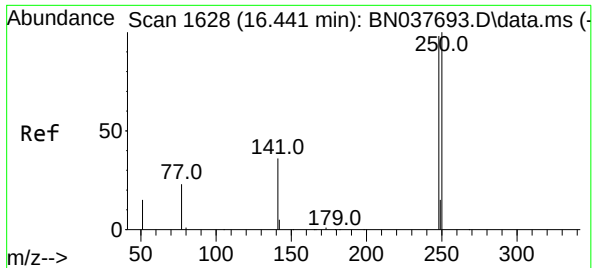
Ion Ratio Lower Upper

198 100

51 96.7 95.1 142.7

105 64.7 53.8 80.6

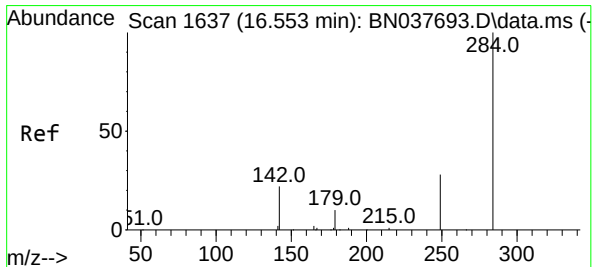
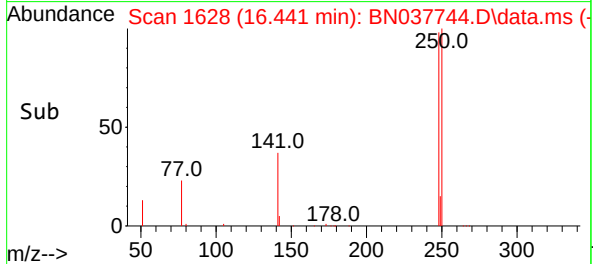
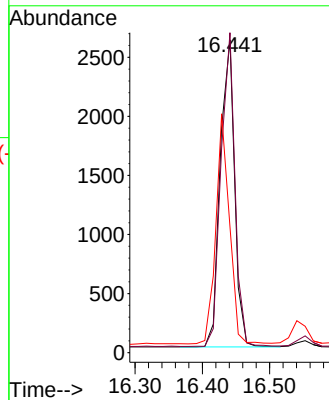
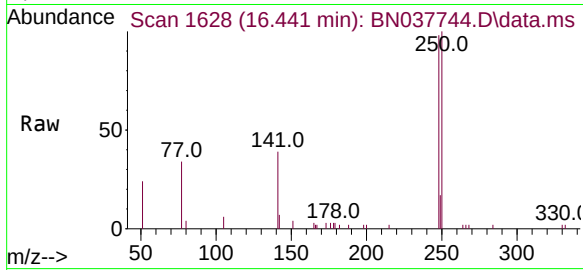




#21
4-Bromophenyl-phenylether
Concen: 0.352 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

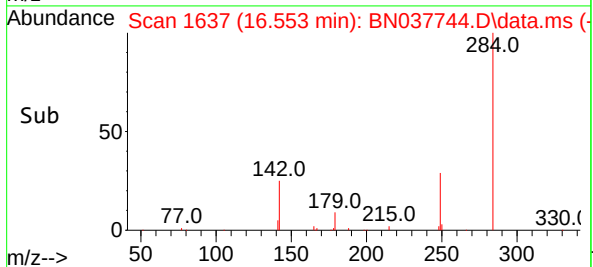
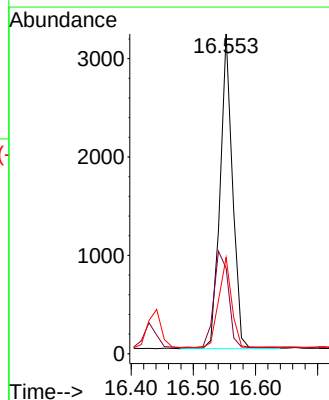
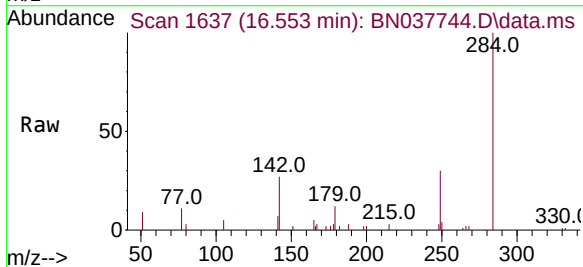
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MSD

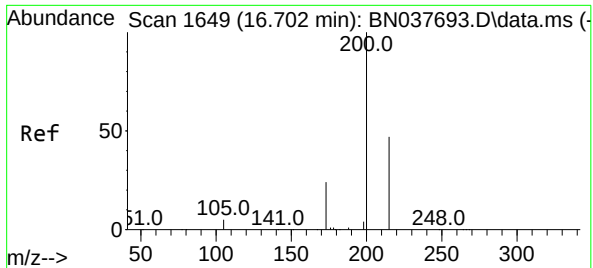
Tgt Ion	Ratio	Lower	Upper
248	100		
250	102.3	81.5	122.3
141	40.3	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.352 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion	Ratio	Lower	Upper
284	100		
142	35.8	30.9	46.3
249	29.5	24.8	37.2





#23

Atrazine

Concen: 0.385 ng

RT: 16.702 min Scan# 1649

Delta R.T. -0.000 min

Lab File: BN037744.D

Acq: 17 Sep 2025 13:59

Instrument :

BNA_N

ClientSampleId :

MW203D2-20250909MSD

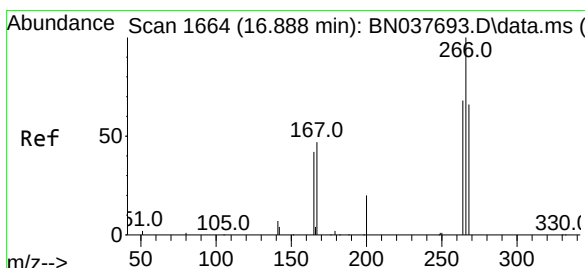
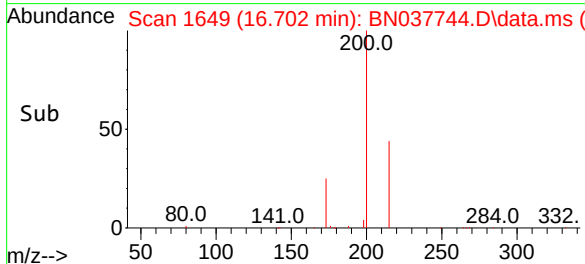
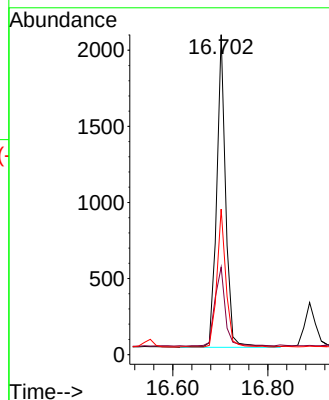
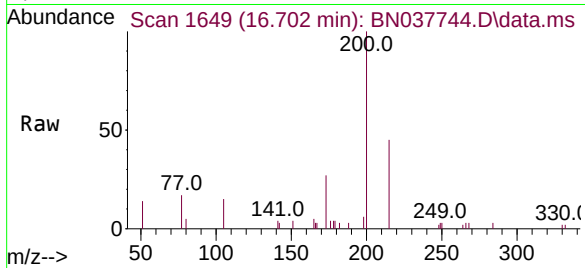
Tgt Ion:200 Resp: 2705

Ion Ratio Lower Upper

200 100

173 27.3 21.4 32.2

215 45.5 39.2 58.8



#24

Pentachlorophenol

Concen: 0.753 ng

RT: 16.888 min Scan# 1664

Delta R.T. -0.000 min

Lab File: BN037744.D

Acq: 17 Sep 2025 13:59

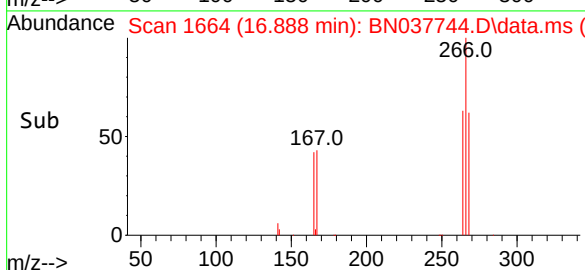
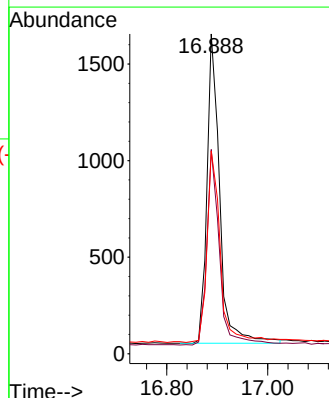
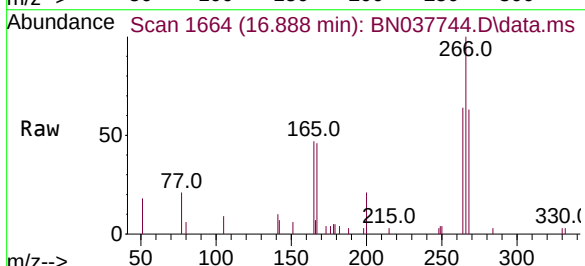
Tgt Ion:266 Resp: 2781

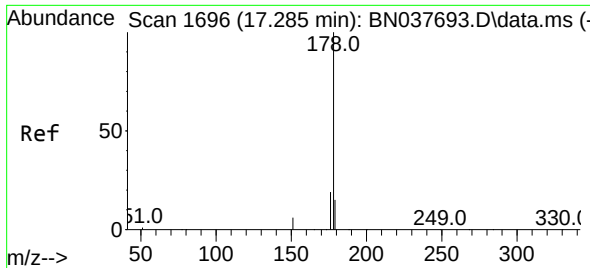
Ion Ratio Lower Upper

266 100

264 62.8 51.6 77.4

268 65.4 53.2 79.8

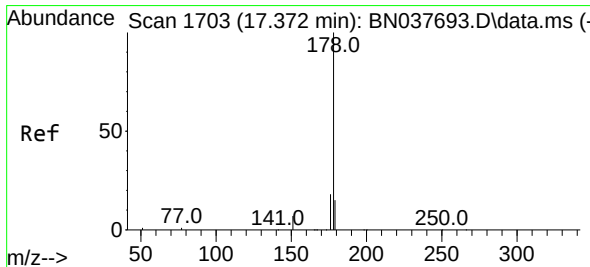
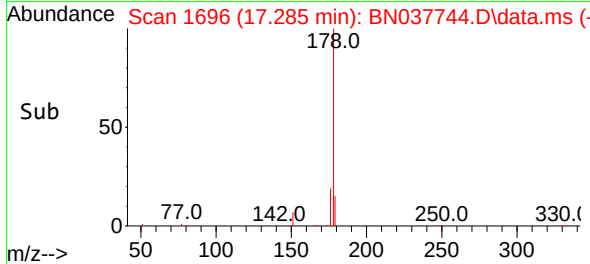
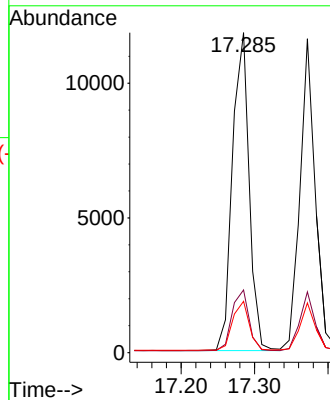
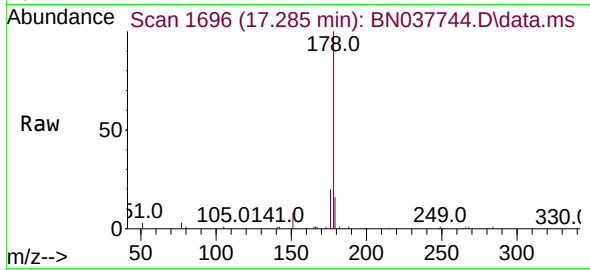




#25
Phenanthrene
Concen: 0.351 ng
RT: 17.285 min Scan# 1696
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

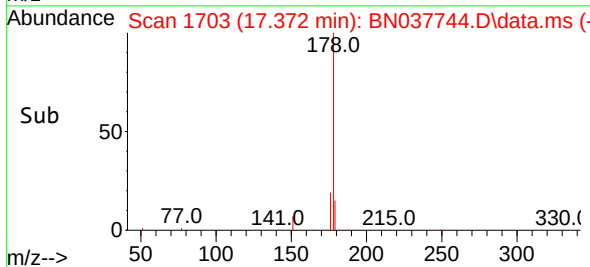
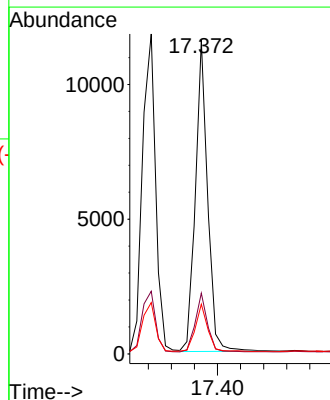
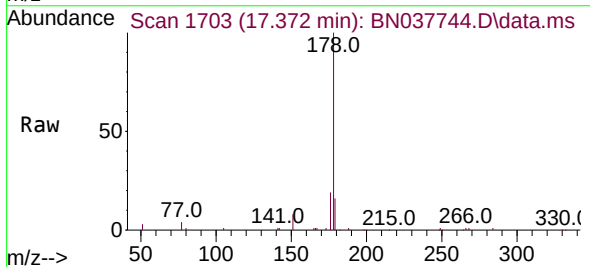
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MSD

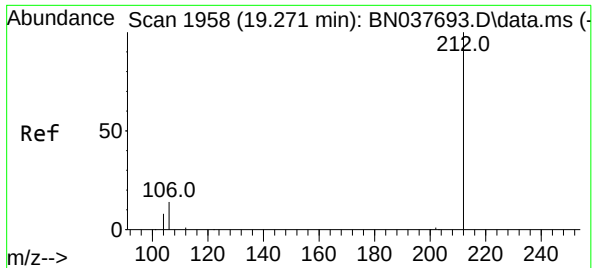
Tgt Ion:178 Resp: 18751
Ion Ratio Lower Upper
178 100
176 19.3 15.3 22.9
179 15.5 12.2 18.2



#26
Anthracene
Concen: 0.358 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion:178 Resp: 16950
Ion Ratio Lower Upper
178 100
176 18.8 14.6 22.0
179 15.2 12.2 18.4





#27

Fluoranthene-d10

Concen: 0.330 ng

RT: 19.271 min Scan# 1958

Delta R.T. -0.000 min

Lab File: BN037744.D

Acq: 17 Sep 2025 13:59

Instrument :

BNA_N

ClientSampleId :

MW203D2-20250909MSD

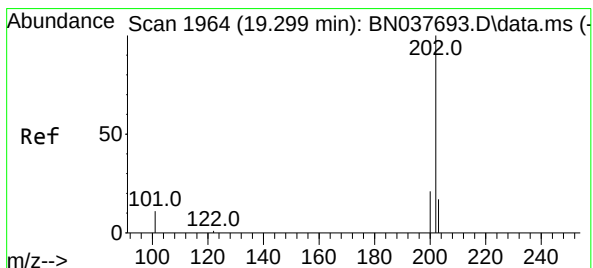
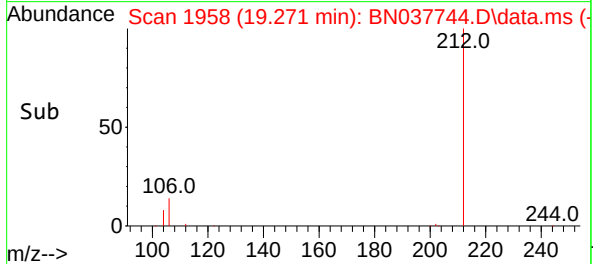
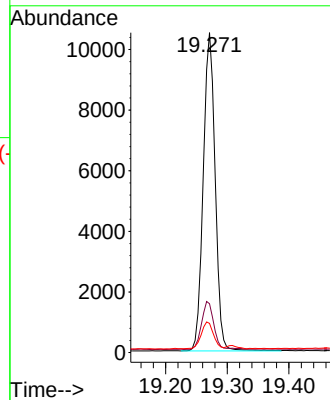
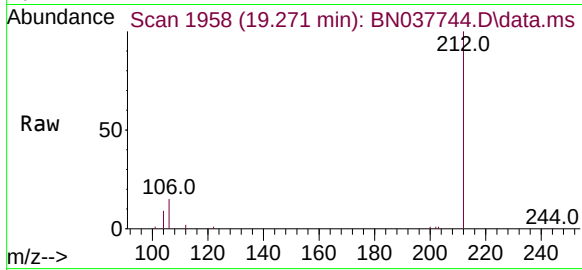
Tgt Ion:212 Resp: 14031

Ion Ratio Lower Upper

212 100

106 15.7 12.2 18.2

104 8.6 6.9 10.3



#28

Fluoranthene

Concen: 0.345 ng

RT: 19.299 min Scan# 1964

Delta R.T. -0.000 min

Lab File: BN037744.D

Acq: 17 Sep 2025 13:59

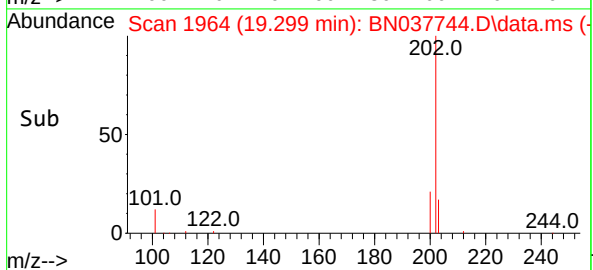
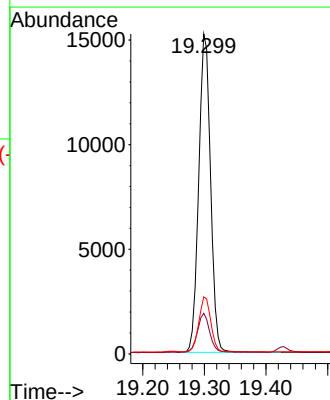
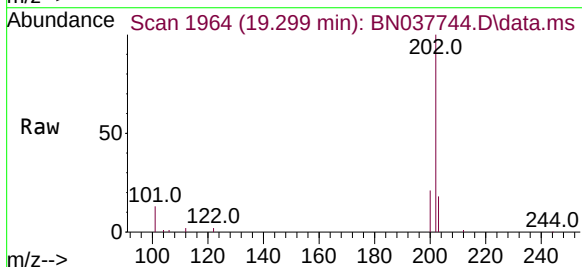
Tgt Ion:202 Resp: 20168

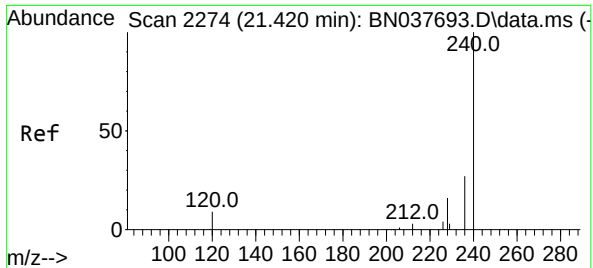
Ion Ratio Lower Upper

202 100

101 12.5 9.3 13.9

203 17.4 13.7 20.5

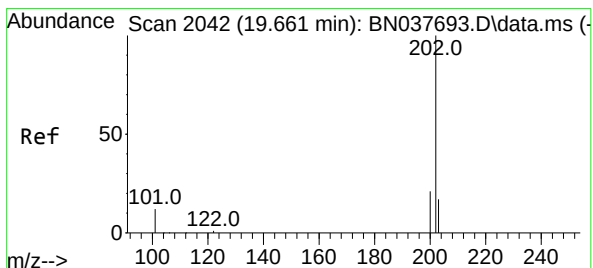
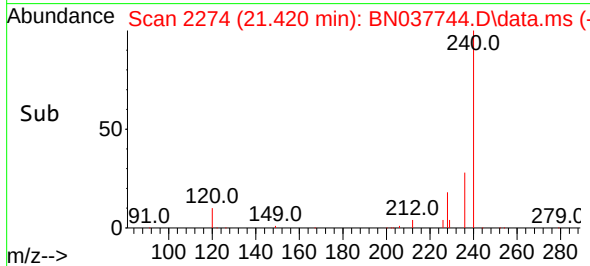
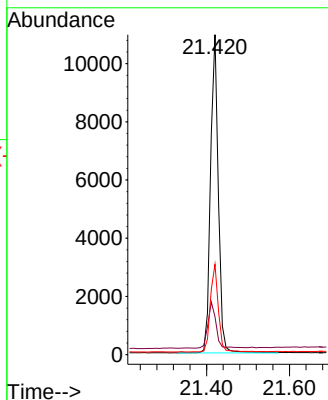
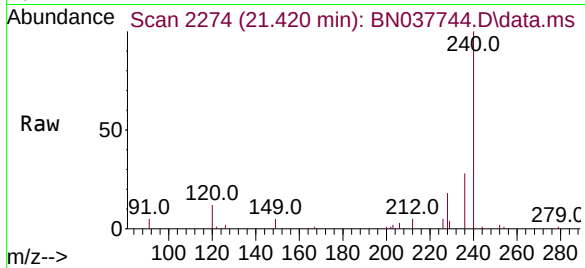




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

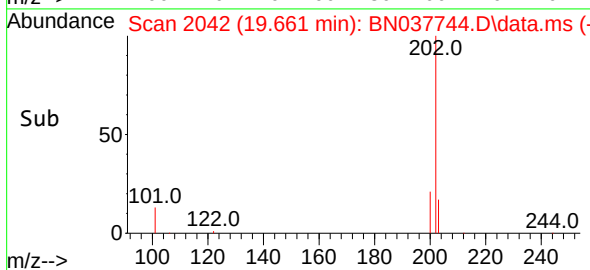
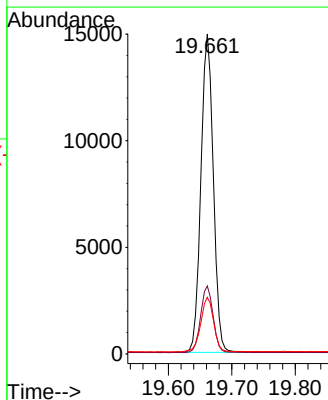
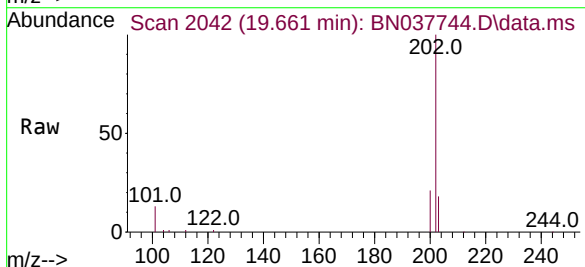
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MSD

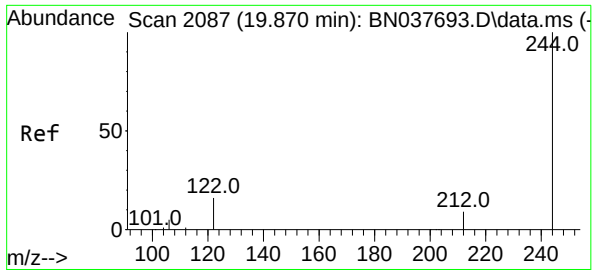
Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.8	9.2	13.8
236	28.2	22.6	33.8



#30
Pyrene
Concen: 0.365 ng
RT: 19.661 min Scan# 2042
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.8	25.2
203	17.8	14.3	21.5

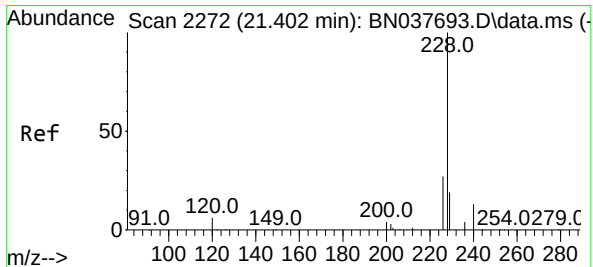
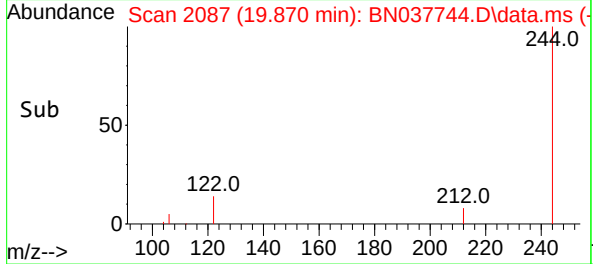
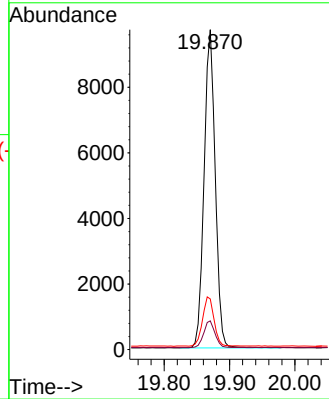
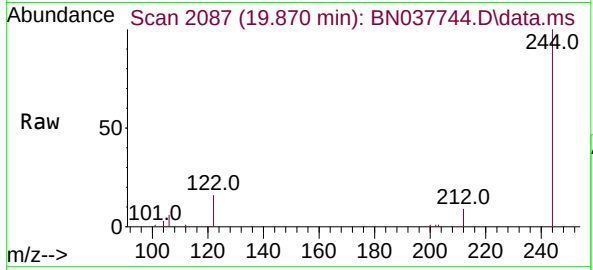




#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.870 min Scan# 2087
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

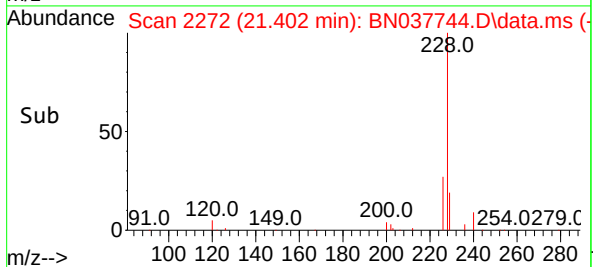
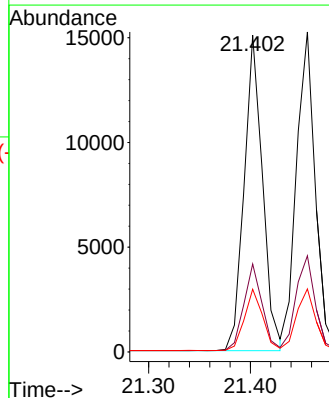
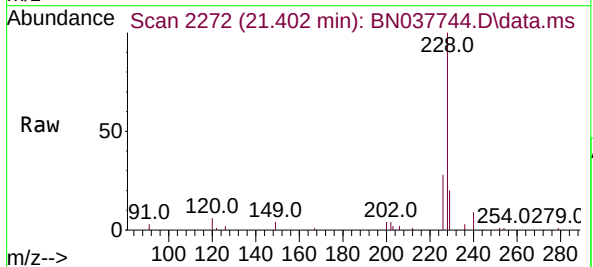
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MSD

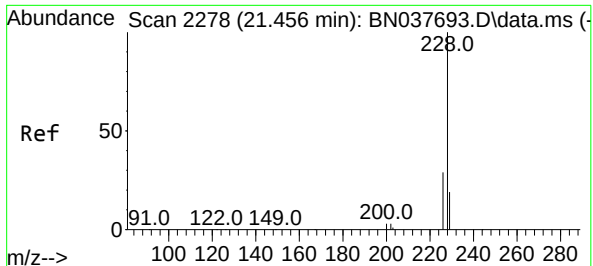
Tgt Ion:244 Resp: 11475
Ion Ratio Lower Upper
244 100
212 9.0 7.5 11.3
122 15.8 13.2 19.8



#32
Benzo(a)anthracene
Concen: 0.380 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion:228 Resp: 18881
Ion Ratio Lower Upper
228 100
226 27.7 22.2 33.2
229 19.8 15.8 23.6





#33

Chrysene

Concen: 0.372 ng

RT: 21.456 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037744.D

Acq: 17 Sep 2025 13:59

Instrument :

BNA_N

ClientSampleId :

MW203D2-20250909MSD

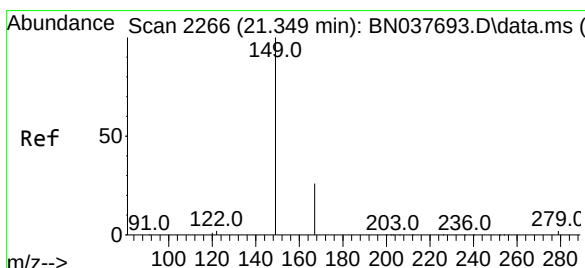
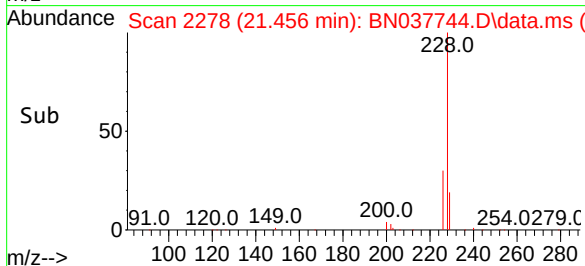
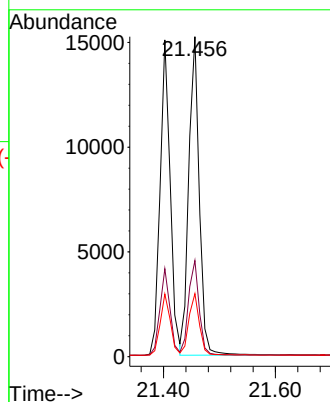
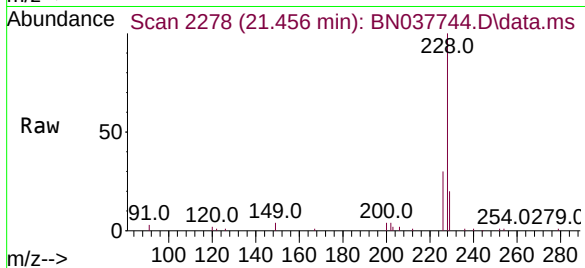
Tgt Ion:228 Resp: 19830

Ion Ratio Lower Upper

228 100

226 30.0 23.5 35.3

229 19.7 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.639 ng

RT: 21.349 min Scan# 2266

Delta R.T. -0.000 min

Lab File: BN037744.D

Acq: 17 Sep 2025 13:59

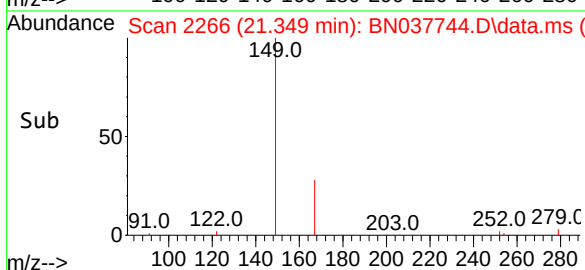
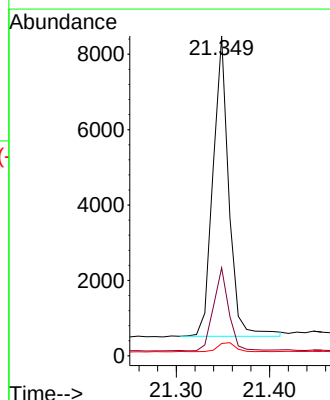
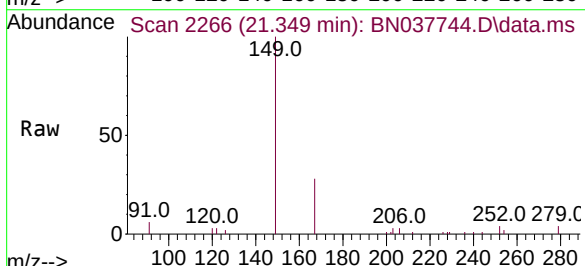
Tgt Ion:149 Resp: 9422

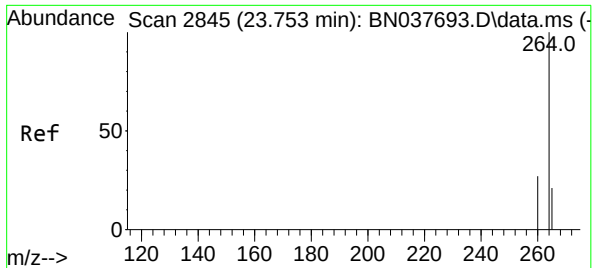
Ion Ratio Lower Upper

149 100

167 26.4 20.8 31.2

279 3.3 3.3 4.9#

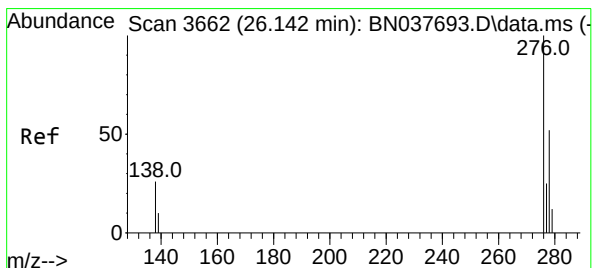
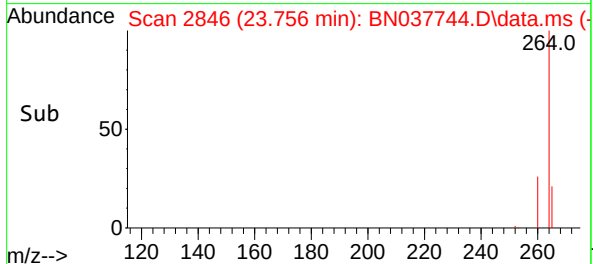
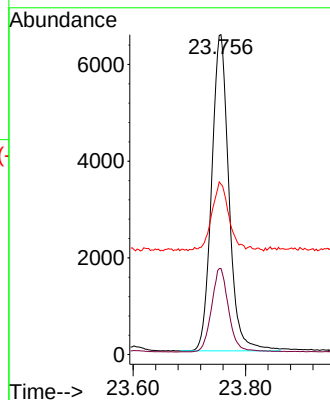
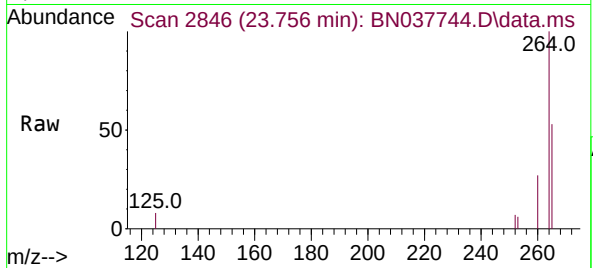




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.756 min Scan# 2846
Delta R.T. 0.003 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

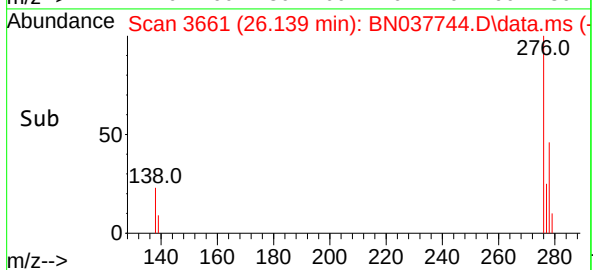
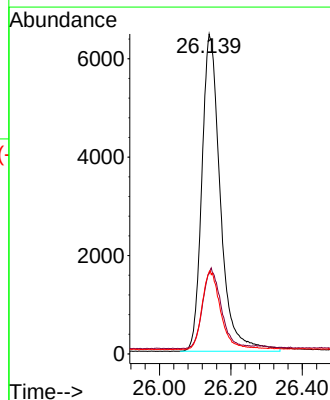
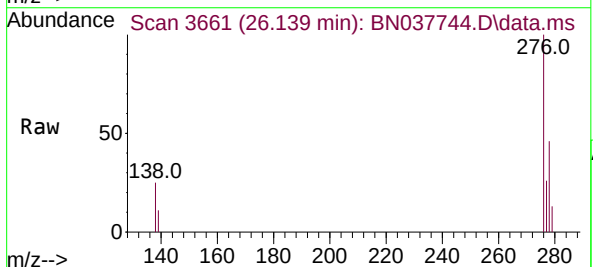
Instrument :
BNA_N
ClientSampleId :
MW203D2-20250909MSD

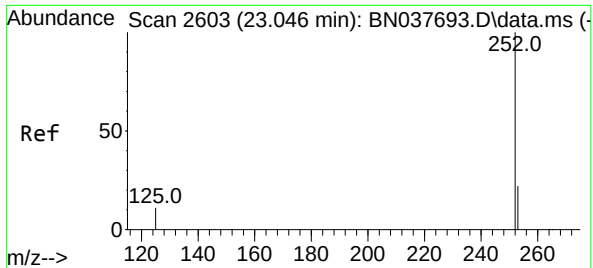
Tgt Ion:264 Resp: 13967
Ion Ratio Lower Upper
264 100
260 26.9 21.8 32.8
265 53.3 39.4 59.2



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.395 ng
RT: 26.139 min Scan# 3661
Delta R.T. -0.003 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion:276 Resp: 23199
Ion Ratio Lower Upper
276 100
138 25.6 21.9 32.9
277 24.6 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.373 ng

RT: 23.049 min Scan# 2604

Delta R.T. 0.003 min

Lab File: BN037744.D

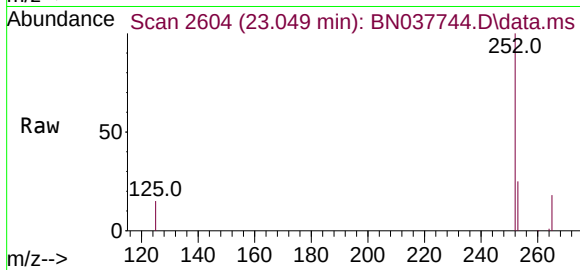
Acq: 17 Sep 2025 13:59

Instrument :

BNA_N

ClientSampleId :

MW203D2-20250909MSD



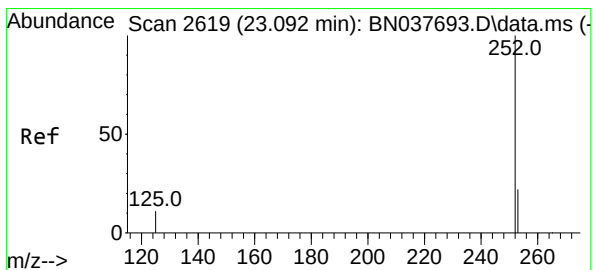
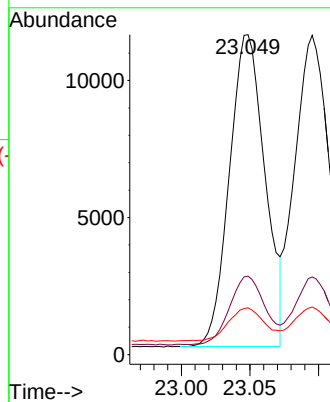
Tgt Ion:252 Resp: 20529

Ion Ratio Lower Upper

252 100

253 24.6 19.4 29.2

125 14.6 11.2 16.8



#38

Benzo(k)fluoranthene

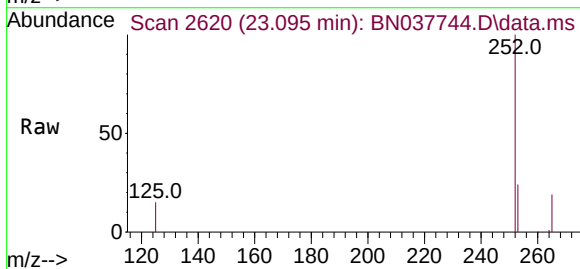
Concen: 0.370 ng

RT: 23.095 min Scan# 2620

Delta R.T. 0.003 min

Lab File: BN037744.D

Acq: 17 Sep 2025 13:59



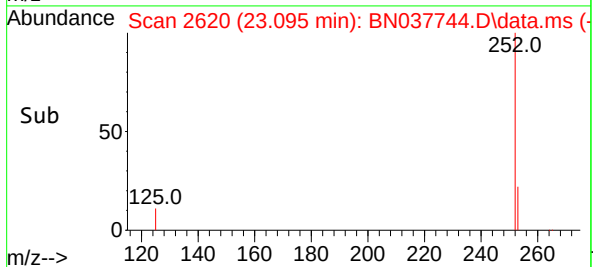
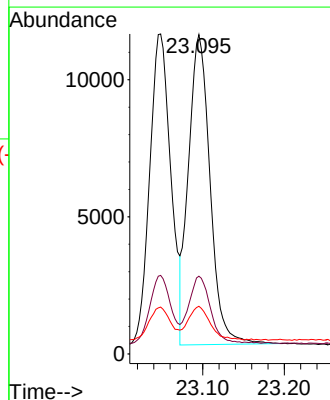
Tgt Ion:252 Resp: 20752

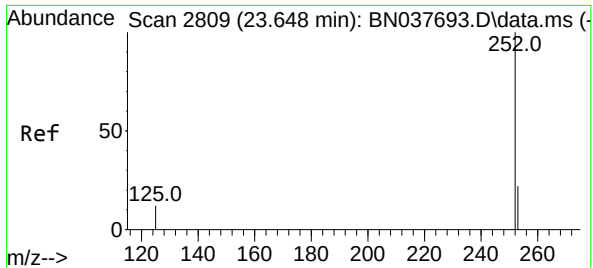
Ion Ratio Lower Upper

252 100

253 24.3 19.4 29.0

125 14.9 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.400 ng

RT: 23.651 min Scan# 2809

Delta R.T. 0.003 min

Lab File: BN037744.D

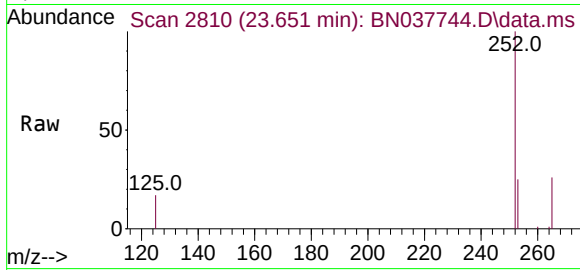
Acq: 17 Sep 2025 13:59

Instrument :

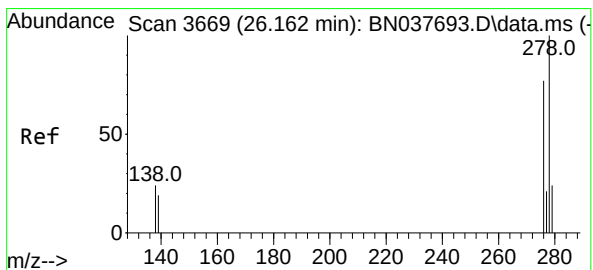
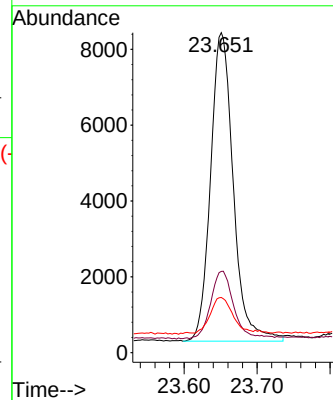
BNA_N

ClientSampleId :

MW203D2-20250909MSD



Tgt Ion:	252	Resp:	17627
Ion Ratio	Lower	Upper	
252	100		
253	25.4	20.8	31.2
125	17.2	13.9	20.9



#40

Dibenzo(a,h)anthracene

Concen: 0.389 ng

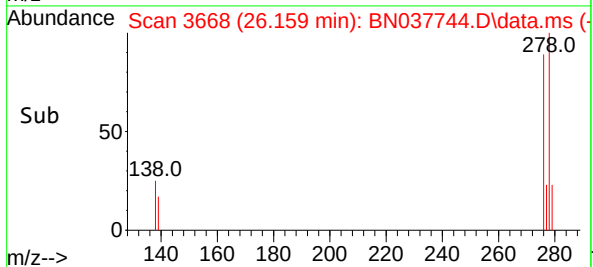
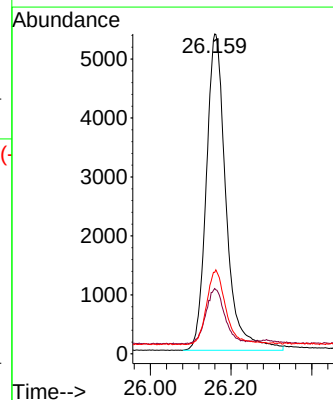
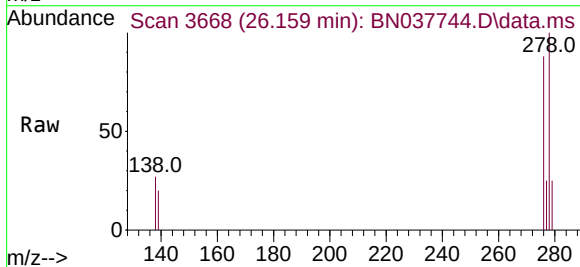
RT: 26.159 min Scan# 3668

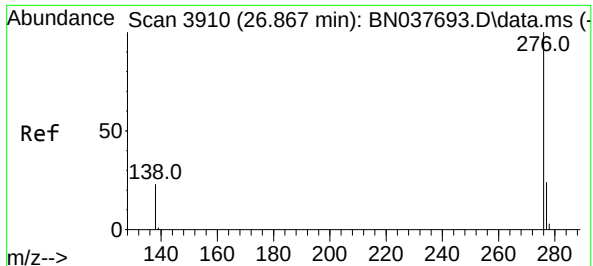
Delta R.T. -0.003 min

Lab File: BN037744.D

Acq: 17 Sep 2025 13:59

Tgt Ion:	278	Resp:	18232
Ion Ratio	Lower	Upper	
278	100		
139	20.4	17.8	26.6
279	25.5	22.0	33.0





#41

Benzo(g,h,i)perylene

Concen: 0.375 ng

RT: 26.867 min Scan# 39

Delta R.T. -0.000 min

Lab File: BN037744.D

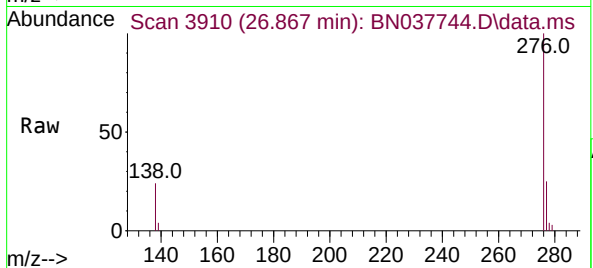
Acq: 17 Sep 2025 13:59

Instrument :

BNA_N

ClientSampleId :

MW203D2-20250909MSD



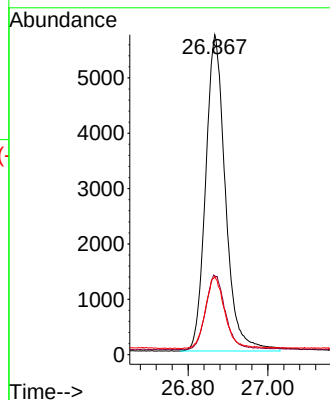
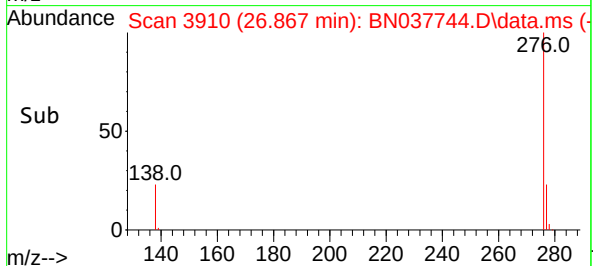
Tgt Ion:276 Resp: 19707

Ion Ratio Lower Upper

276 100

277 24.6 20.6 31.0

138 24.4 20.2 30.2



Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/12/25
Client Sample ID:	RE103D2-20250911MSD		SDG No.:	Q3095
Lab Sample ID:	Q3097-03MSD		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
BN037773.D	1	09/15/25 12:00	09/18/25 12:25	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.73		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		76%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		101%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7160	7.833				
1146-65-2	Naphthalene-d8	19100	10.637				
15067-26-2	Acenaphthene-d10	8490	14.484				
1517-22-2	Phenanthrene-d10	14200	17.235				
1719-03-5	Chrysene-d12	12000	21.411				
1520-96-3	Perylene-d12	11700	23.747				

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\BN091725\
 Data File : BN037773.D
 Acq On : 18 Sep 2025 12:25
 Operator : RC/JU
 Sample : Q3097-03MSD
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE103D2-20250911MSD

Quant Time: Sep 18 12:59:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

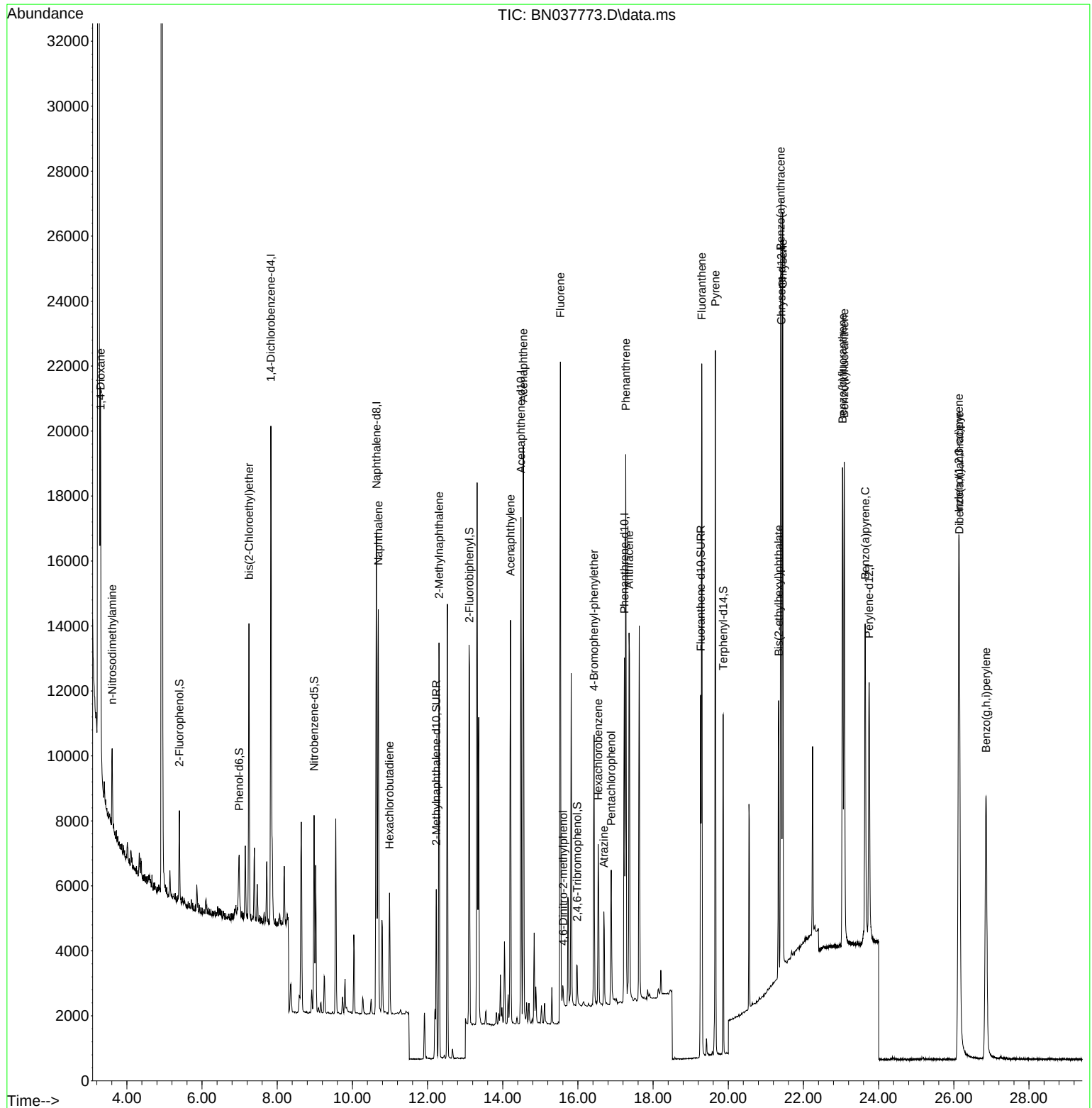
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7159	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	19099	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	8494	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	14218	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	11982	0.400	ng	# 0.00
35) Perylene-d12	23.747	264	11726	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2162	0.132	ng	0.00
5) Phenol-d6	6.988	99	1603	0.075	ng	0.00
8) Nitrobenzene-d5	8.982	82	4572	0.327	ng	-0.01
11) 2-Methylnaphthalene-d10	12.232	152	7086	0.280	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	876	0.395	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	10884	0.306	ng	0.00
27) Fluoranthene-d10	19.266	212	12926	0.362	ng	0.00
31) Terphenyl-d14	19.866	244	9877	0.406	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.304	88	5455	0.732	ng	# 93
3) n-Nitrosodimethylamine	3.608	42	1372	0.141	ng	# 93
6) bis(2-Chloroethyl)ether	7.248	93	6329	0.332	ng	100
9) Naphthalene	10.690	128	16829	0.322	ng	99
10) Hexachlorobutadiene	10.989	225	2887	0.306	ng	# 98
12) 2-Methylnaphthalene	12.303	142	9108	0.282	ng	100
16) Acenaphthylene	14.206	152	13370	0.343	ng	99
17) Acenaphthene	14.548	154	8415	0.319	ng	99
18) Fluorene	15.535	166	10028	0.314	ng	100
20) 4,6-Dinitro-2-methylph...	15.609	198	468	0.355	ng	94
21) 4-Bromophenyl-phenylether	16.429	248	3385	0.365	ng	# 87
22) Hexachlorobenzene	16.540	284	3993	0.374	ng	98
23) Atrazine	16.689	200	2440	0.414	ng	# 90
24) Pentachlorophenol	16.888	266	2303	0.744	ng	97
25) Phenanthrene	17.273	178	16893	0.377	ng	99
26) Anthracene	17.359	178	14220	0.359	ng	99
28) Fluoranthene	19.294	202	18446	0.376	ng	99
30) Pyrene	19.657	202	18763	0.400	ng	100
32) Benzo(a)anthracene	21.393	228	17097	0.409	ng	99
33) Chrysene	21.447	228	18729	0.418	ng	98
34) Bis(2-ethylhexyl)phtha...	21.339	149	5916	0.477	ng	99
36) Indeno(1,2,3-cd)pyrene	26.130	276	22920	0.465	ng	99
37) Benzo(b)fluoranthene	23.040	252	19407	0.420	ng	98
38) Benzo(k)fluoranthene	23.086	252	19956	0.424	ng	98
39) Benzo(a)pyrene	23.642	252	15734	0.426	ng	98
40) Dibenzo(a,h)anthracene	26.148	278	17896	0.455	ng	97
41) Benzo(g,h,i)perylene	26.855	276	19134	0.433	ng	98

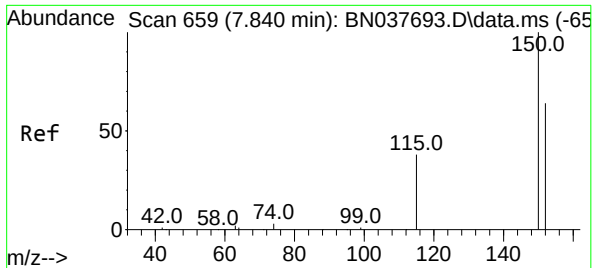
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037773.D
Acq On : 18 Sep 2025 12:25
Operator : RC/JU
Sample : Q3097-03MSD
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

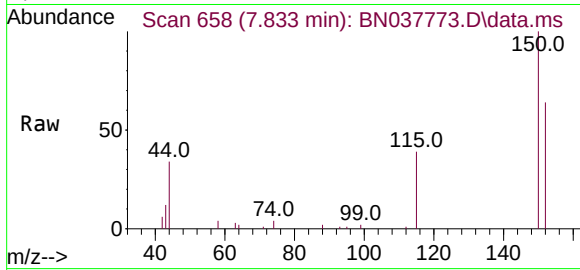
Quant Time: Sep 18 12:59:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



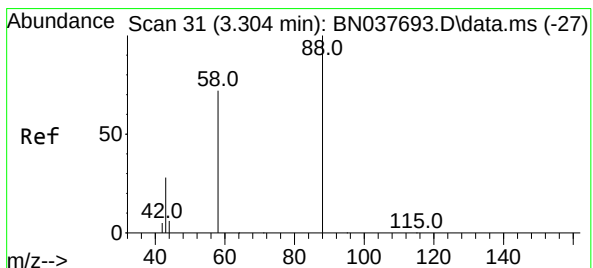
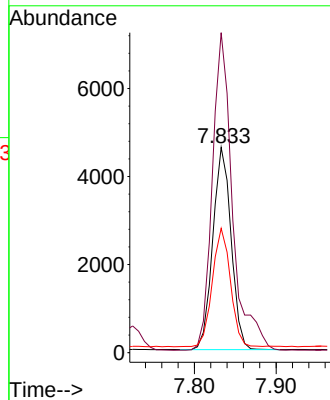
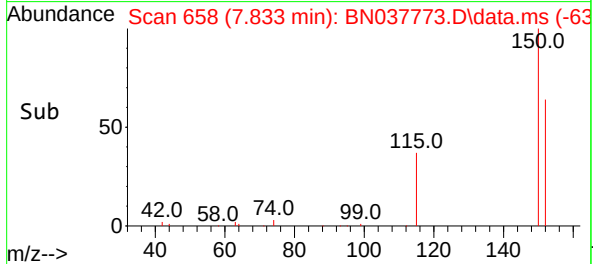


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.833 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN037773.D
 Acq: 18 Sep 2025 12:25

Instrument :
 BNA_N
 ClientSampleId :
 RE103D2-20250911MSD

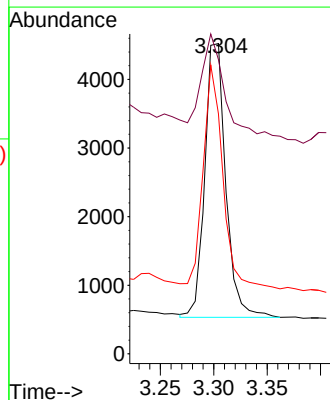
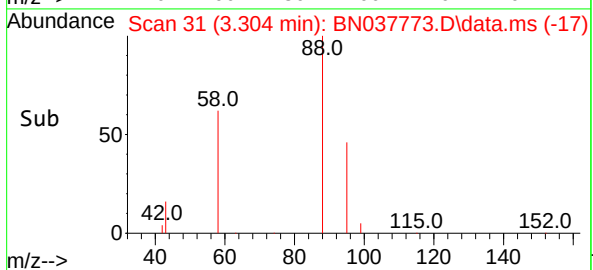
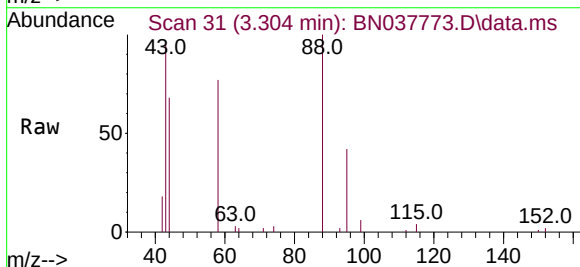


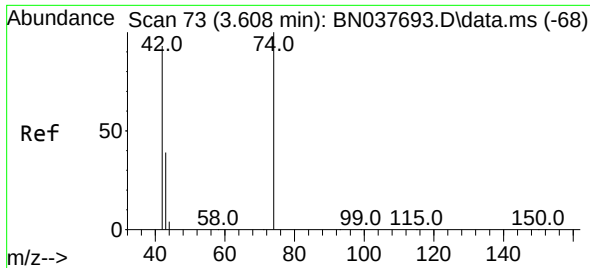
Tgt Ion:152 Resp: 7159
 Ion Ratio Lower Upper
 152 100
 150 155.9 124.5 186.7
 115 60.5 49.2 73.8



#2
 1,4-Dioxane
 Concen: 0.732 ng
 RT: 3.304 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: BN037773.D
 Acq: 18 Sep 2025 12:25

Tgt Ion: 88 Resp: 5455
 Ion Ratio Lower Upper
 88 100
 43 45.0 26.8 40.2#
 58 76.7 61.9 92.9

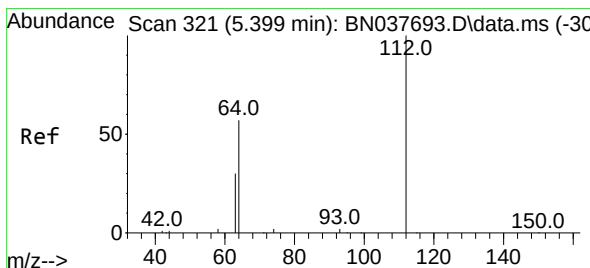
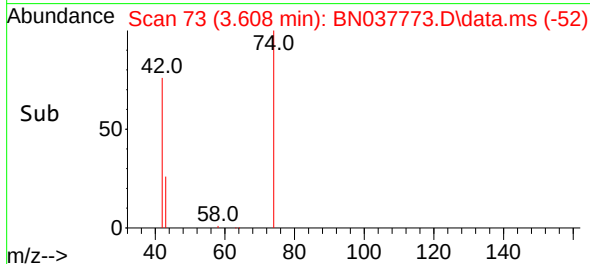
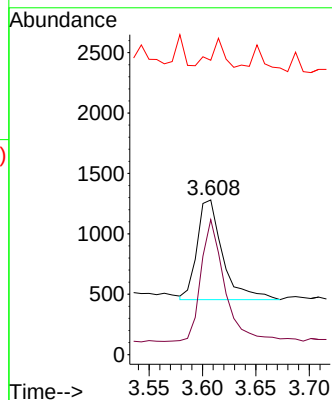
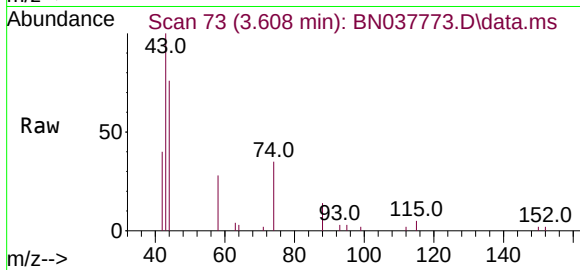




#3
n-Nitrosodimethylamine
Concen: 0.141 ng
RT: 3.608 min Scan# 73
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

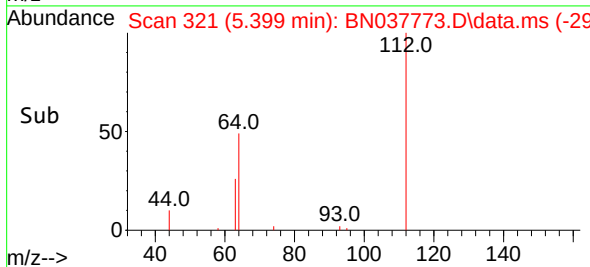
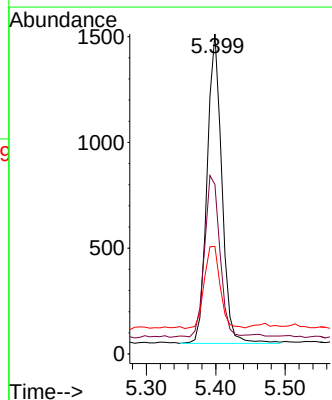
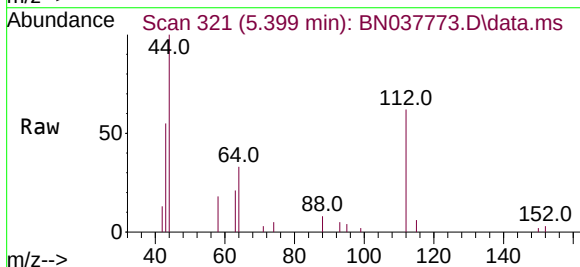
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

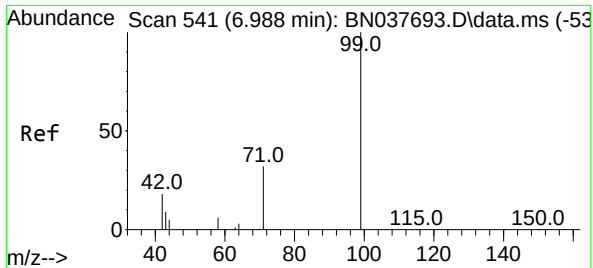
Tgt Ion: 42 Resp: 1372
Ion Ratio Lower Upper
42 100
74 114.1 86.0 129.0
44 15.3 8.4 12.6#



#4
2-Fluorophenol
Concen: 0.132 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion: 112 Resp: 2162
Ion Ratio Lower Upper
112 100
64 54.6 44.9 67.3
63 28.6 24.7 37.1

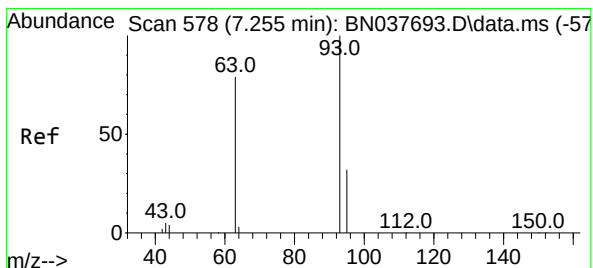
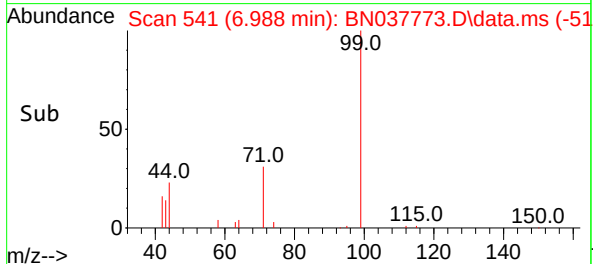
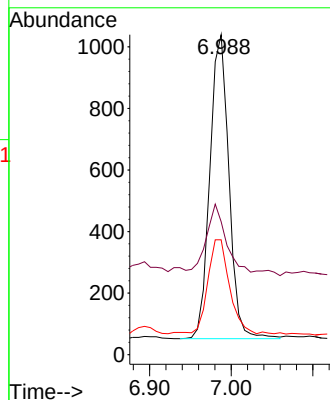
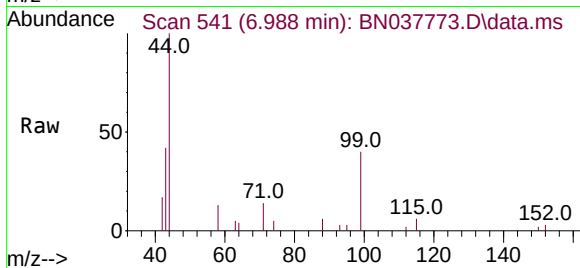




#5
Phenol-d6
Concen: 0.075 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

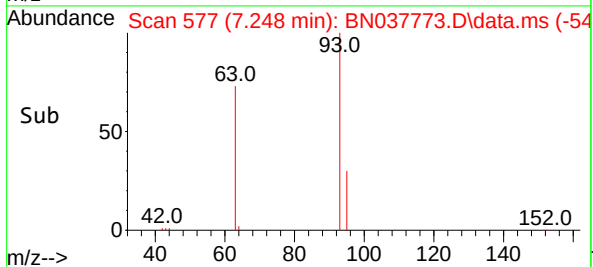
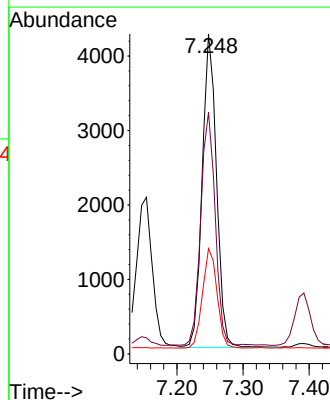
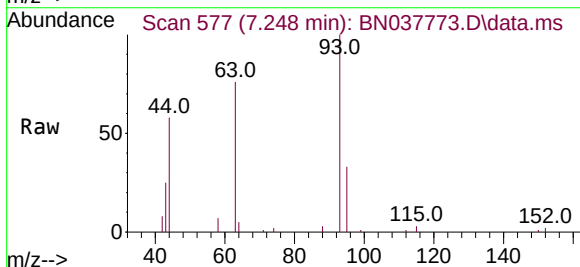
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

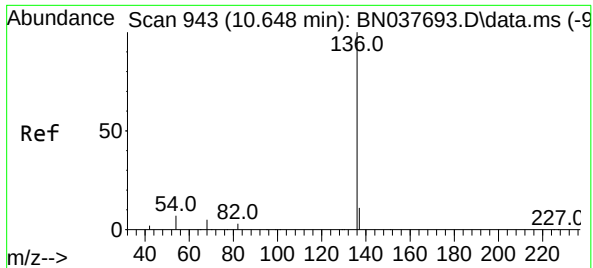
Tgt Ion	Ratio	Lower	Upper
99	100		
42	22.1	16.6	24.8
71	36.1	26.7	40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.332 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion	Ratio	Lower	Upper
93	100		
63	75.4	60.6	90.8
95	32.2	26.0	39.0

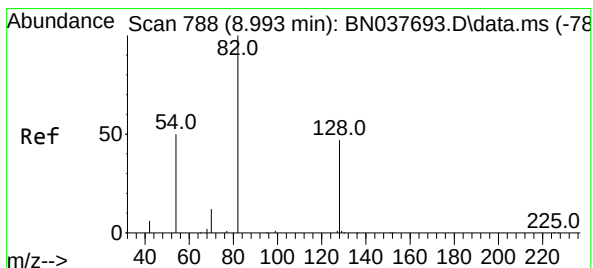
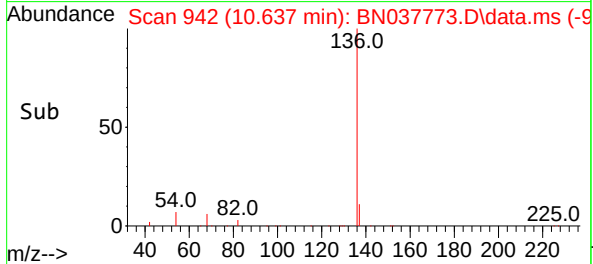
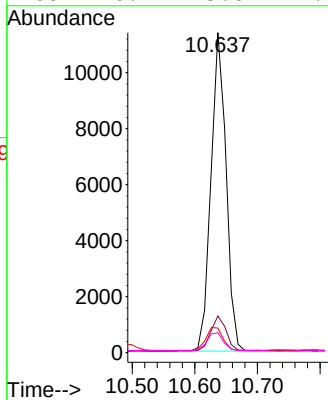
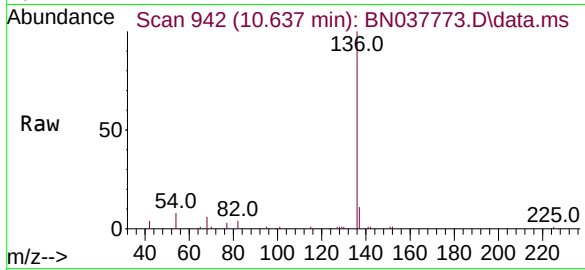




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

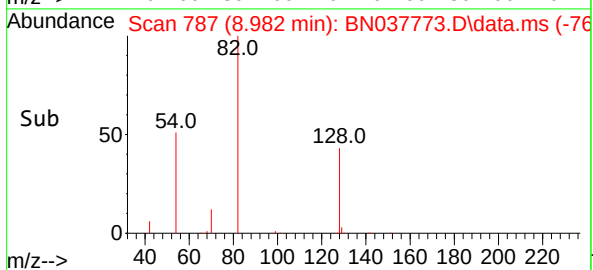
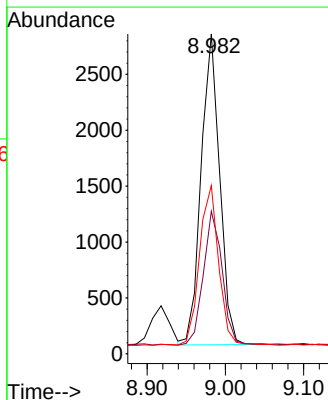
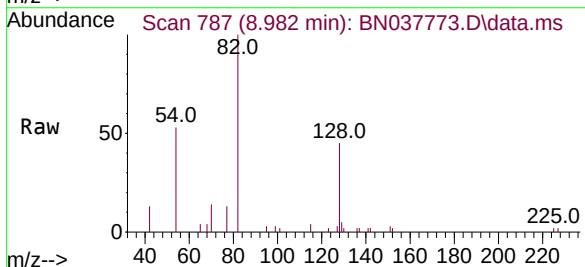
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

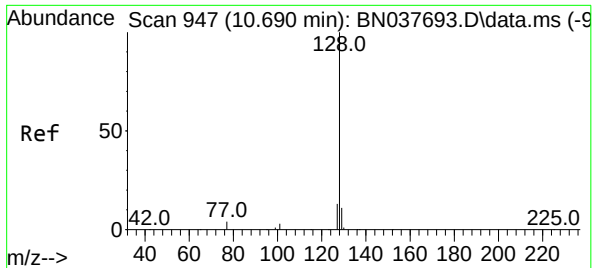
Tgt Ion:	136	Resp:	19099
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	7.7	6.3	9.5
68	6.2	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.327 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:	82	Resp:	4572
Ion	Ratio	Lower	Upper
82	100		
128	44.6	38.3	57.5
54	52.6	41.4	62.2

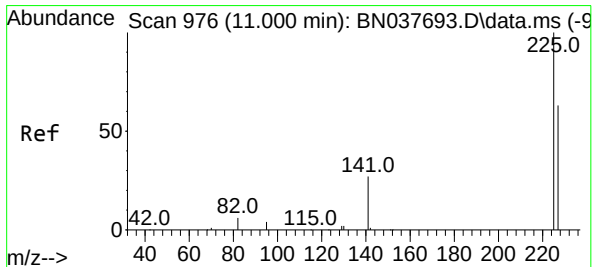
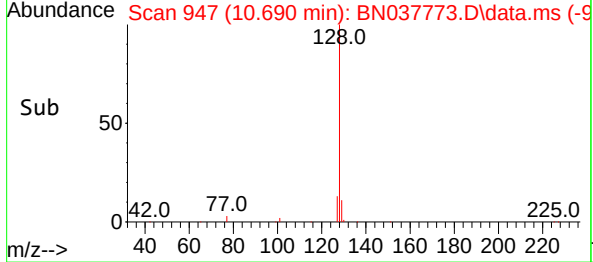
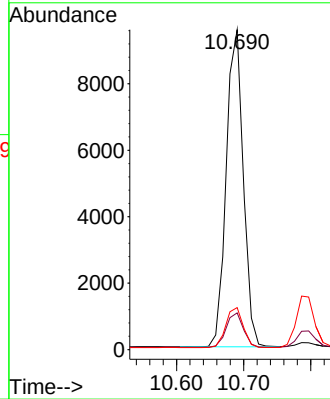
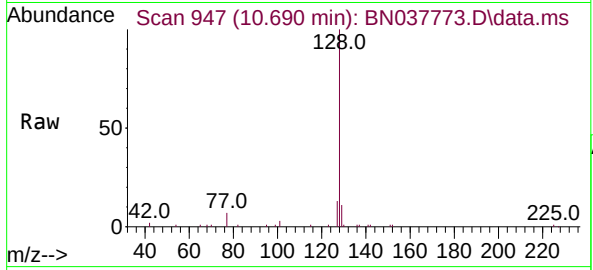




#9
Naphthalene
Concen: 0.322 ng
RT: 10.690 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

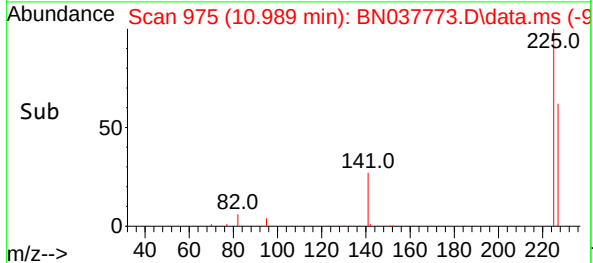
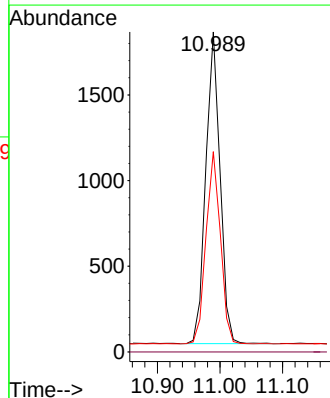
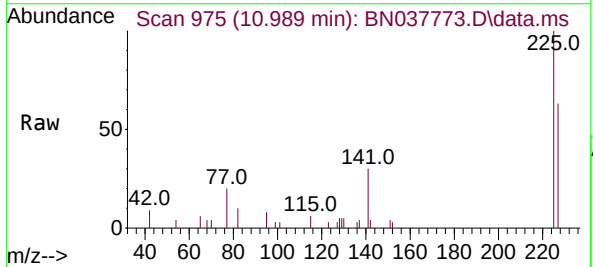
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

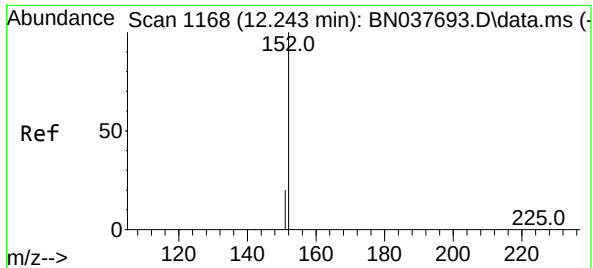
Tgt Ion:128 Resp: 16829
Ion Ratio Lower Upper
128 100
129 11.5 9.1 13.7
127 13.1 10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.306 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:225 Resp: 2887
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.2 50.9 76.3

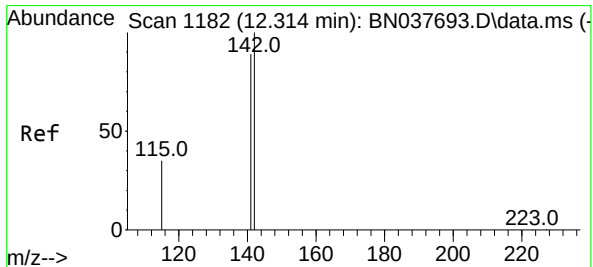
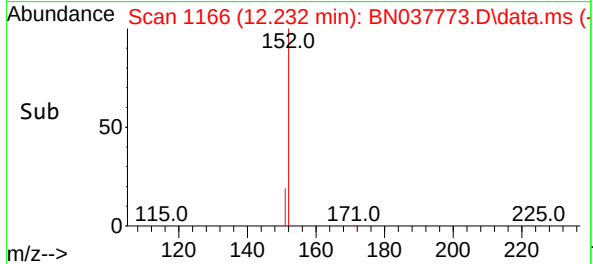
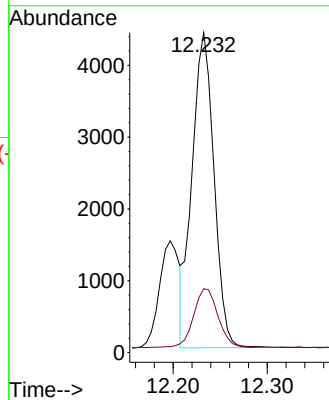
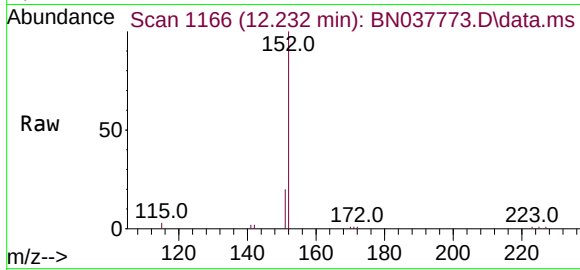




#11
2-Methylnaphthalene-d10
Concen: 0.280 ng
RT: 12.232 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

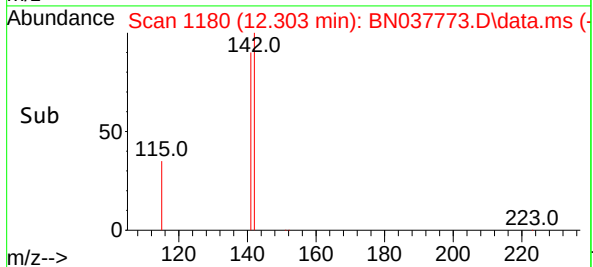
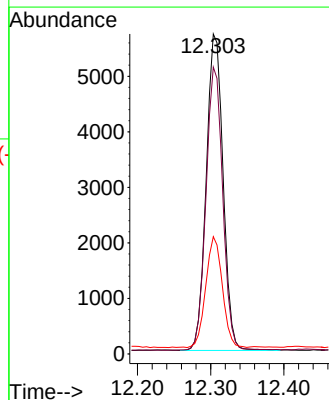
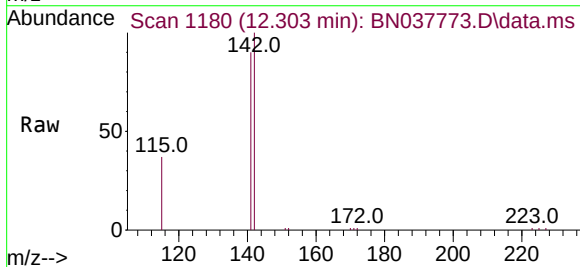
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

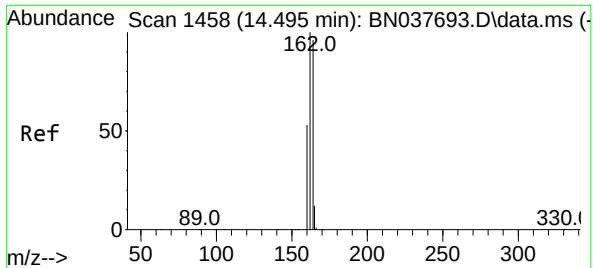
Tgt Ion:152 Resp: 7086
Ion Ratio Lower Upper
152 100
151 20.9 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.282 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:142 Resp: 9108
Ion Ratio Lower Upper
142 100
141 89.6 71.6 107.4
115 36.6 28.6 43.0

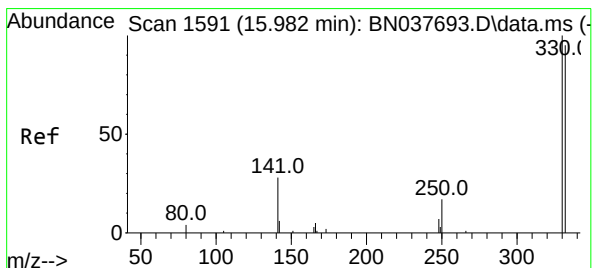
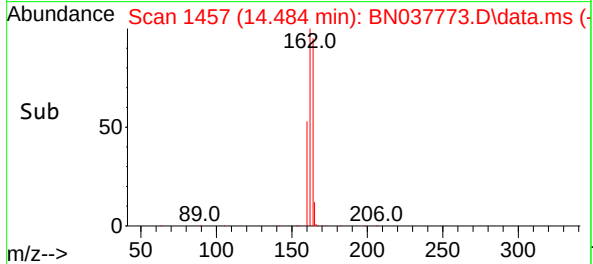
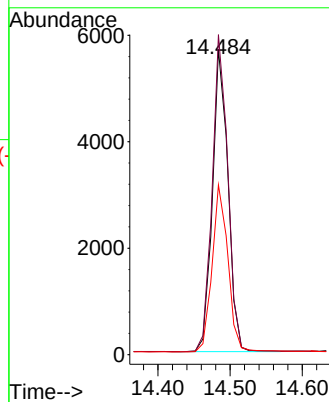
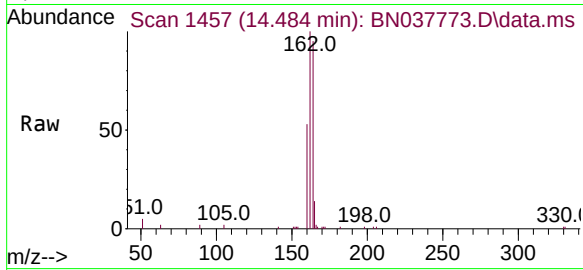




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

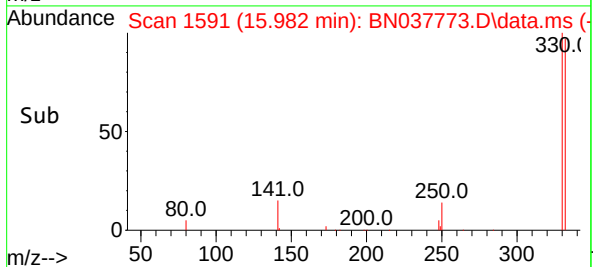
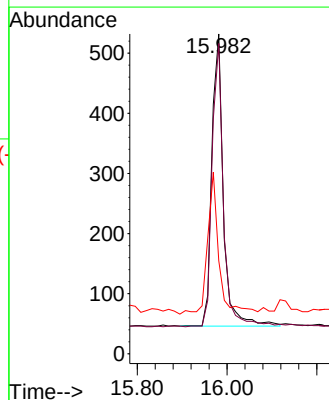
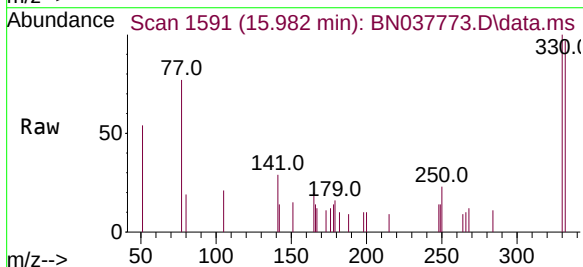
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

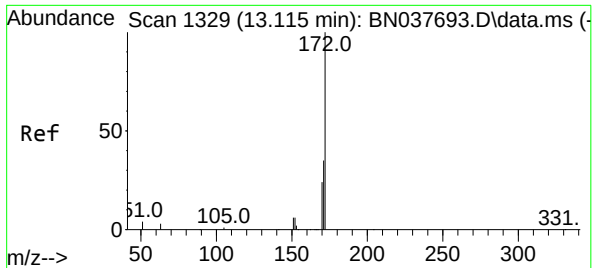
Tgt Ion	164	Resp	8494
Ion Ratio	Lower	Upper	
164	100		
162	105.0	83.1	124.7
160	55.7	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.395 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion	330	Resp	876
Ion Ratio	Lower	Upper	
330	100		
332	95.3	75.3	112.9
141	47.4	35.0	52.4

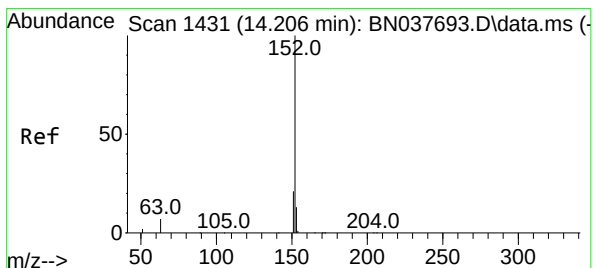
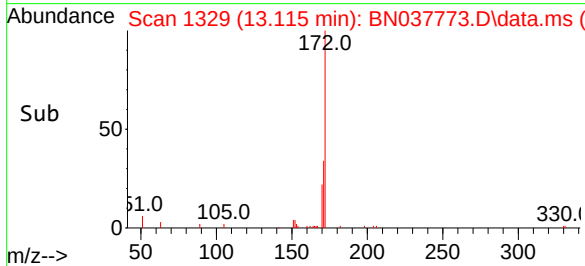
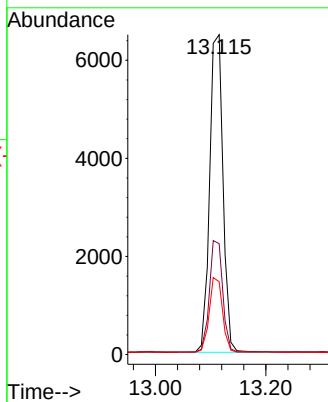
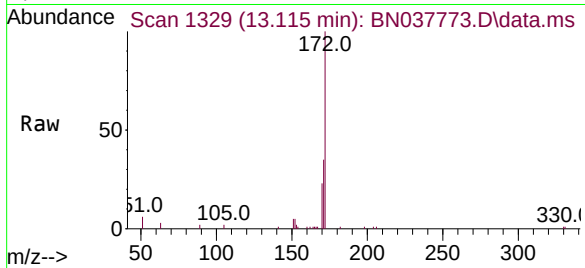




#15
2-Fluorobiphenyl
Concen: 0.306 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

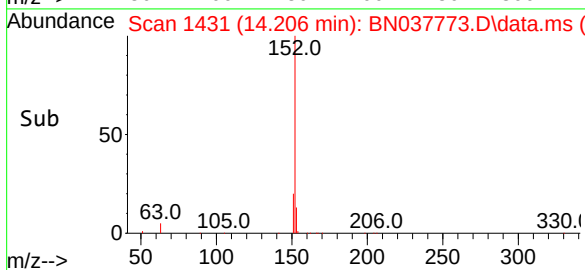
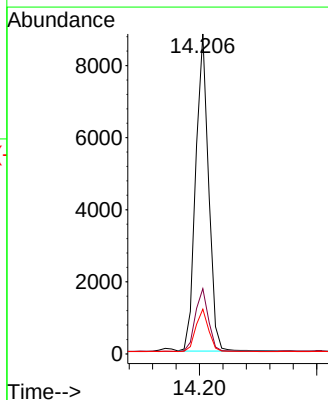
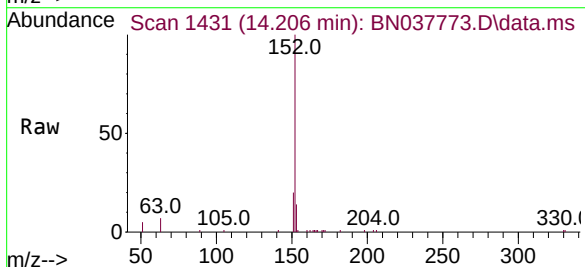
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

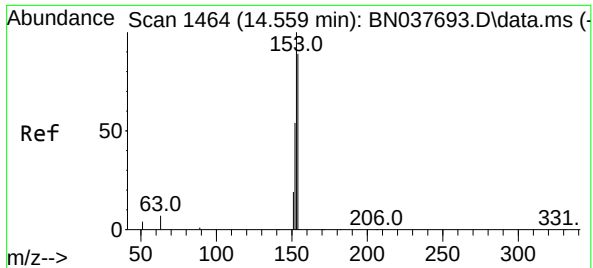
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.6	43.0
170	22.8	19.8	29.8



#16
Acenaphthylene
Concen: 0.343 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.2	24.2
153	13.3	10.4	15.6

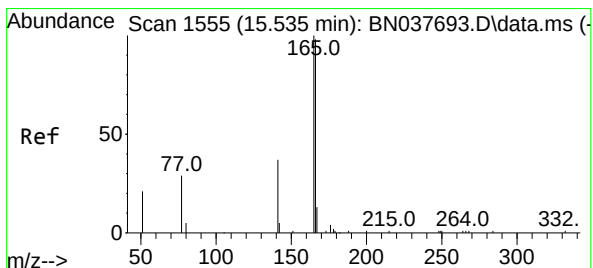
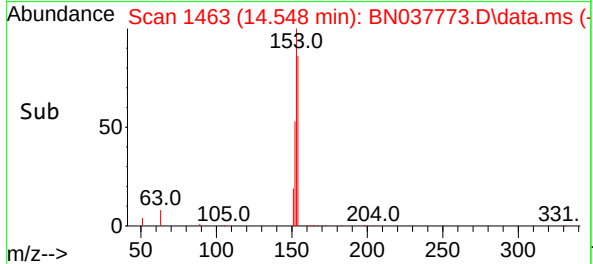
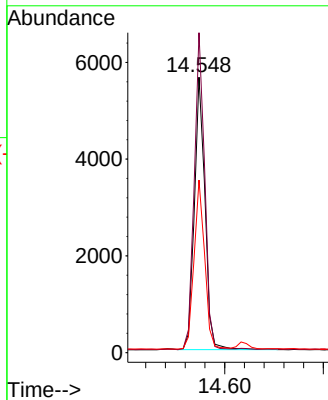
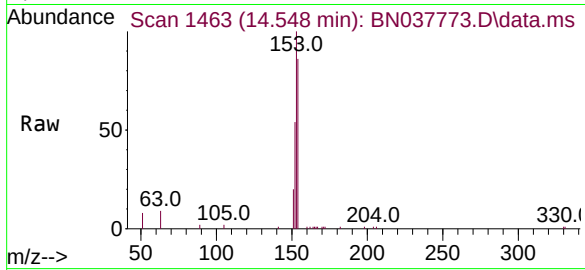




#17
Acenaphthene
Concen: 0.319 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

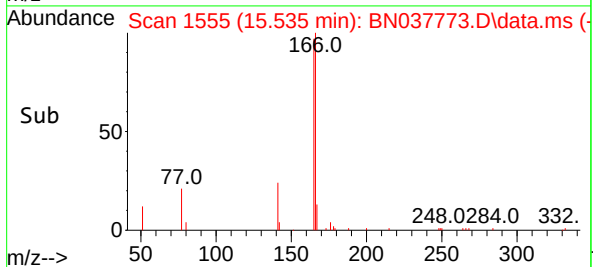
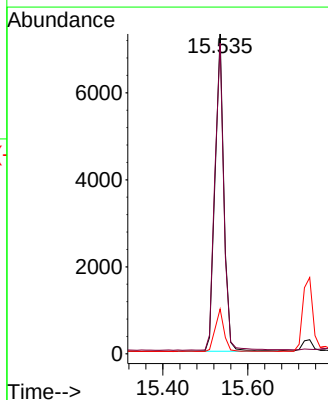
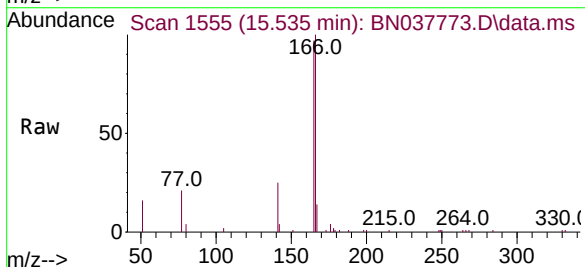
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

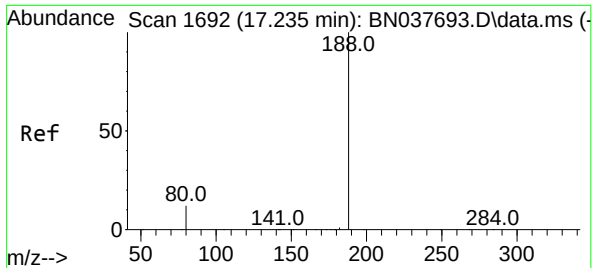
Tgt Ion:154 Resp: 8415
Ion Ratio Lower Upper
154 100
153 114.0 89.8 134.8
152 62.0 50.2 75.2



#18
Fluorene
Concen: 0.314 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:166 Resp: 10028
Ion Ratio Lower Upper
166 100
165 99.6 79.6 119.4
167 14.0 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037773.D

Acq: 18 Sep 2025 12:25

Instrument :

BNA_N

ClientSampleId :

RE103D2-20250911MSD

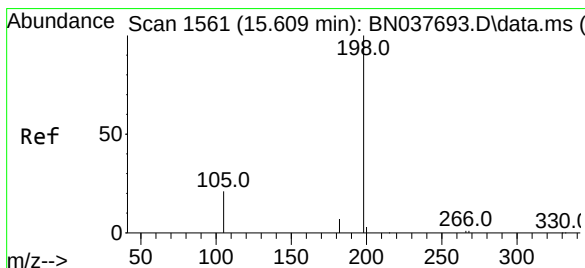
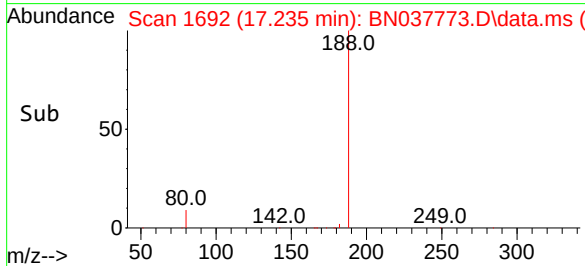
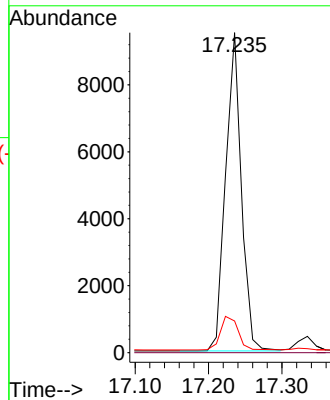
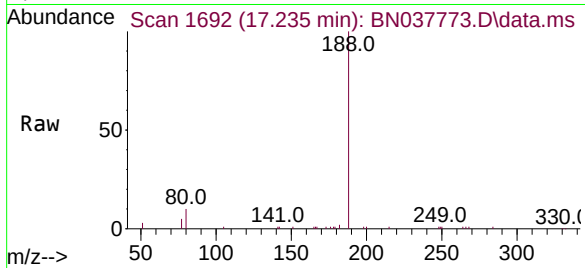
Tgt Ion:188 Resp: 14218

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.9 10.6 15.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.355 ng

RT: 15.609 min Scan# 1561

Delta R.T. 0.000 min

Lab File: BN037773.D

Acq: 18 Sep 2025 12:25

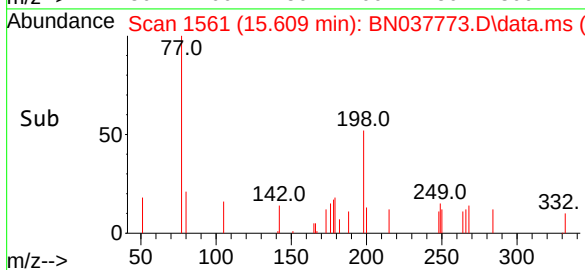
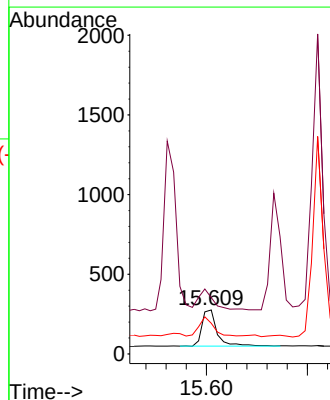
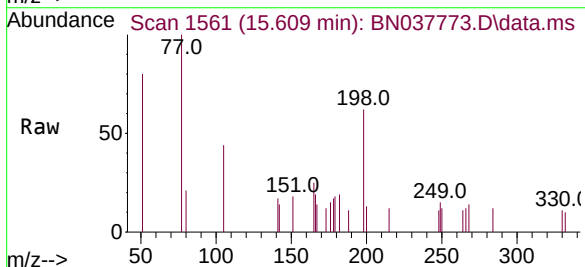
Tgt Ion:198 Resp: 468

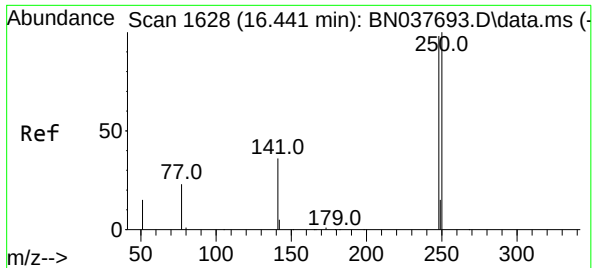
Ion Ratio Lower Upper

198 100

51 127.9 95.1 142.7

105 69.9 53.8 80.6

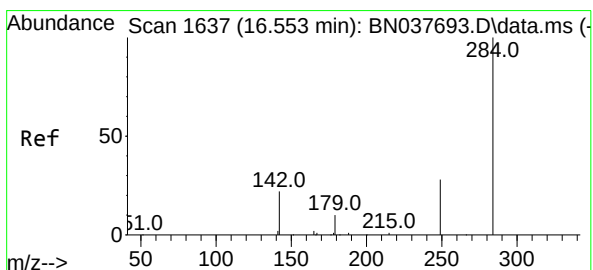
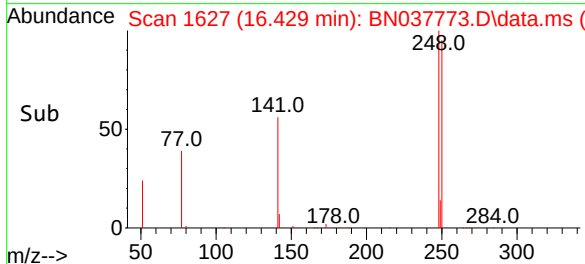
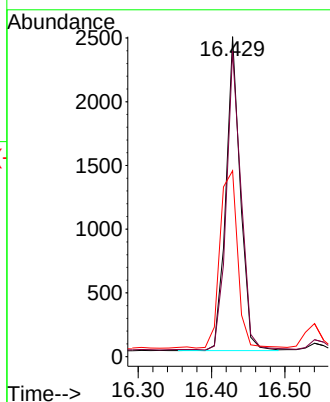
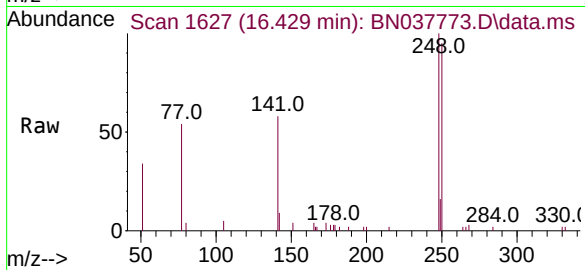




#21
4-Bromophenyl-phenylether
Concen: 0.365 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.013 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

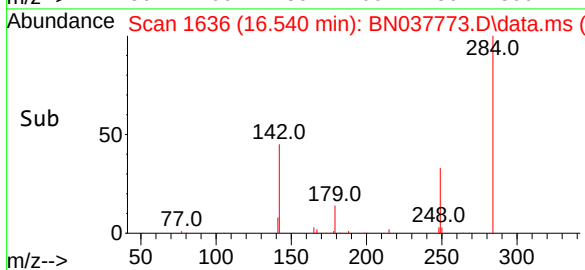
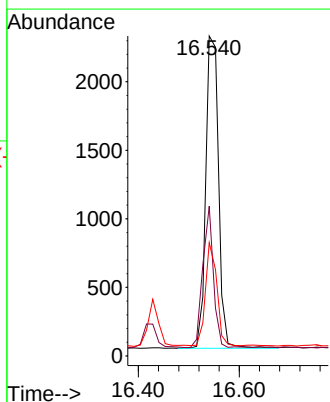
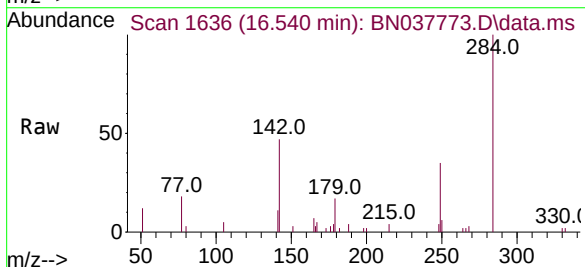
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

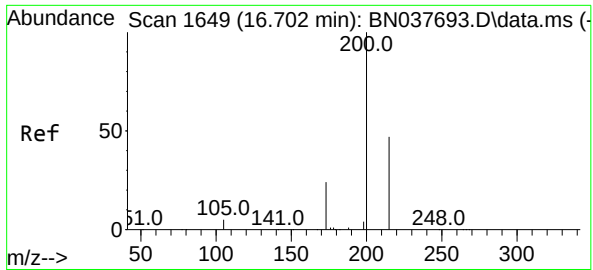
Tgt Ion:248 Resp: 3385
Ion Ratio Lower Upper
248 100
250 95.5 81.5 122.3
141 58.1 30.8 46.2#



#22
Hexachlorobenzene
Concen: 0.374 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:284 Resp: 3993
Ion Ratio Lower Upper
284 100
142 37.8 30.9 46.3
249 29.4 24.8 37.2

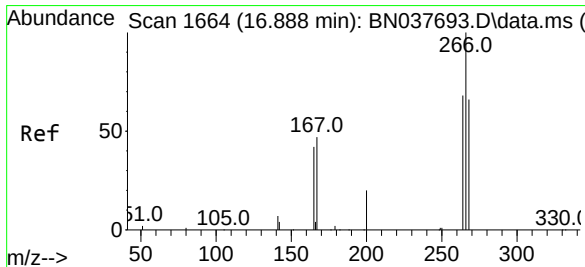
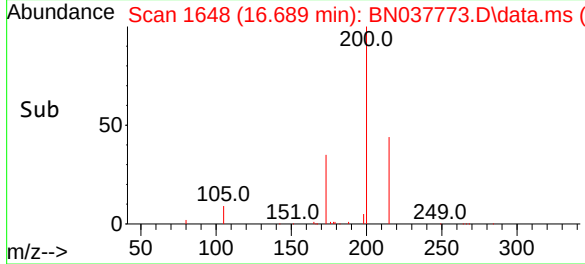
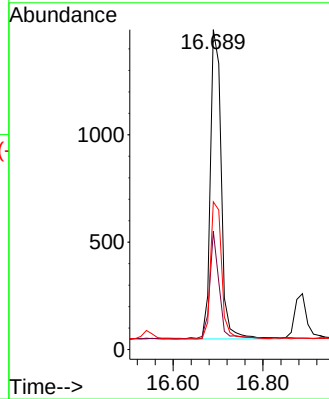
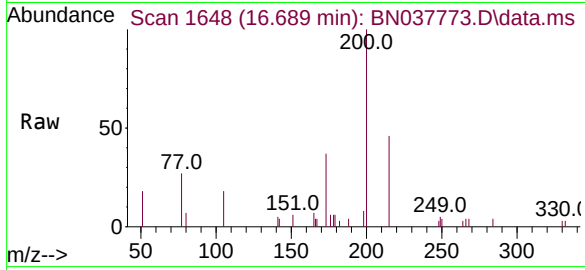




#23
Atrazine
Concen: 0.414 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.013 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

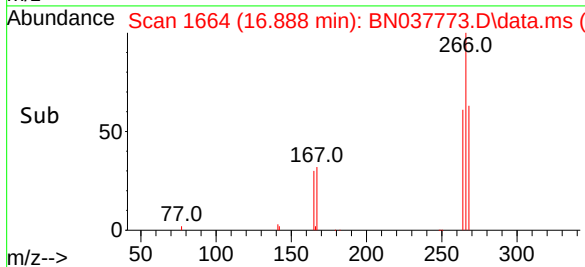
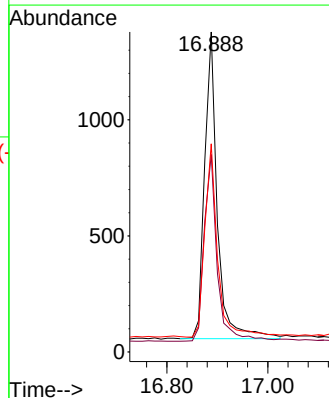
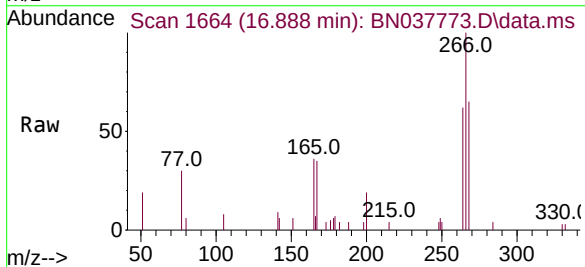
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

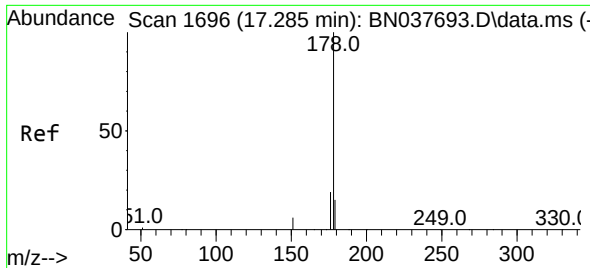
Tgt Ion:200 Resp: 2440
Ion Ratio Lower Upper
200 100
173 37.0 21.4 32.2#
215 46.2 39.2 58.8



#24
Pentachlorophenol
Concen: 0.744 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:266 Resp: 2303
Ion Ratio Lower Upper
266 100
264 62.2 51.6 77.4
268 64.2 53.2 79.8

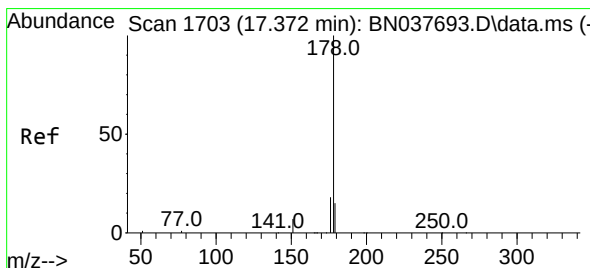
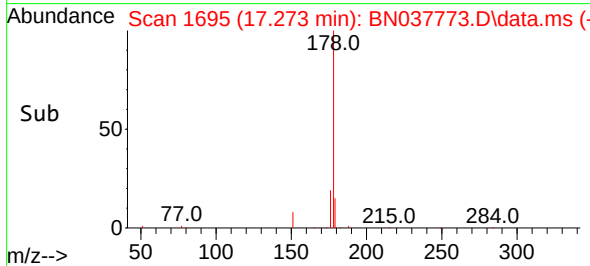
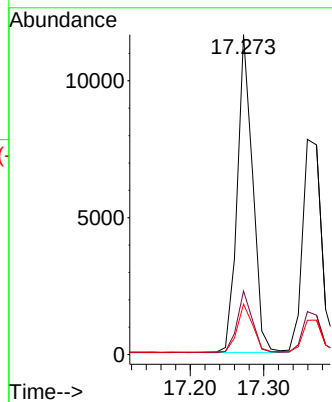
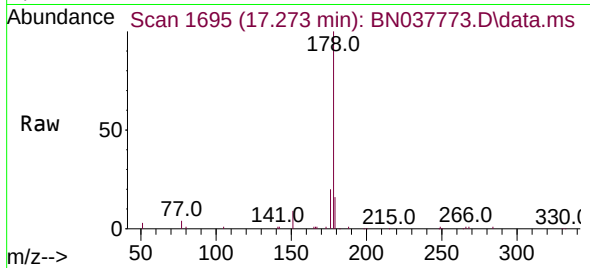




#25
Phenanthrene
Concen: 0.377 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.013 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

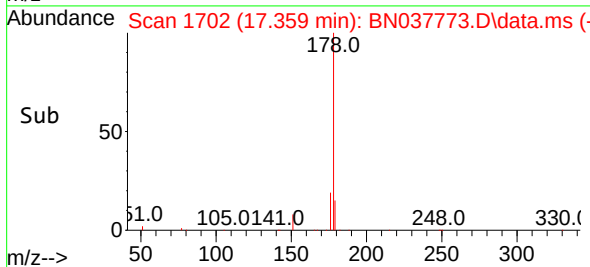
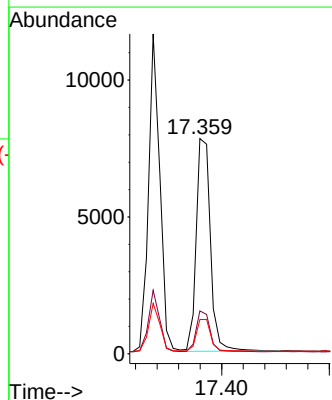
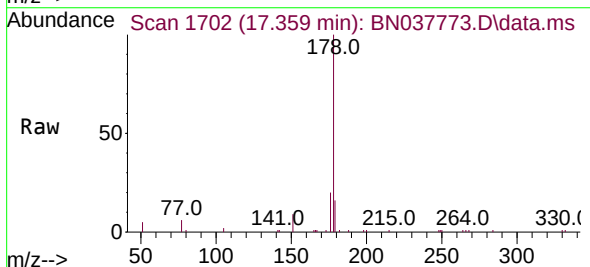
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

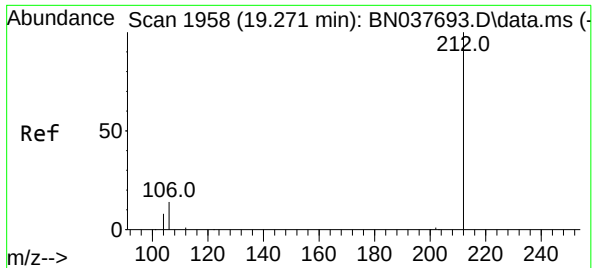
Tgt Ion:178 Resp: 16893
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.8 12.2 18.2



#26
Anthracene
Concen: 0.359 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:178 Resp: 14220
Ion Ratio Lower Upper
178 100
176 18.7 14.6 22.0
179 15.2 12.2 18.4

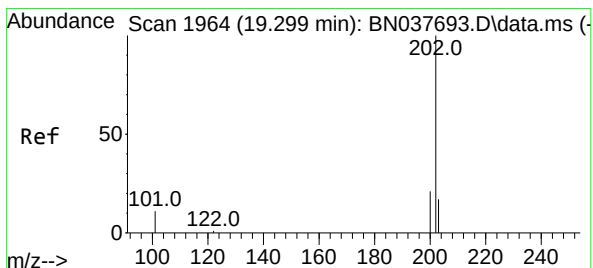
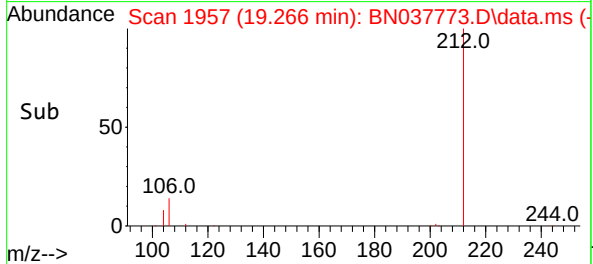
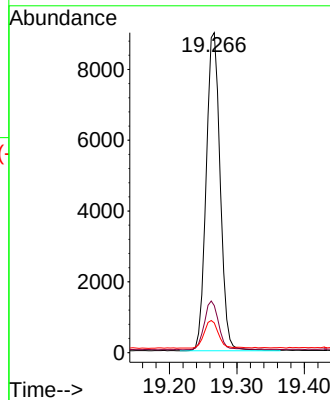
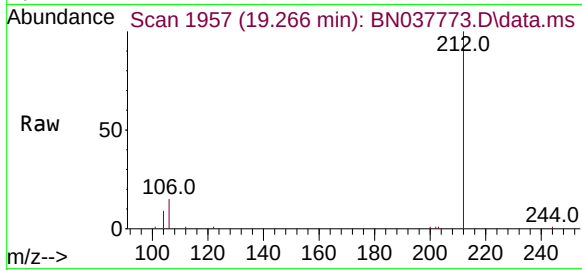




#27
Fluoranthene-d10
Concen: 0.362 ng
RT: 19.266 min Scan# 1957
Delta R.T. -0.005 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

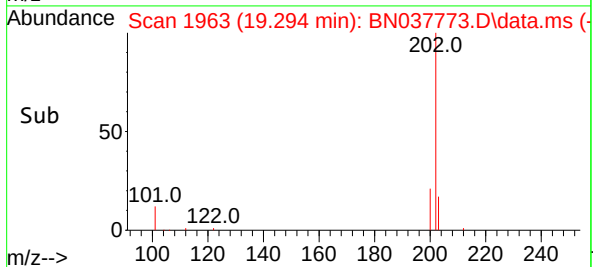
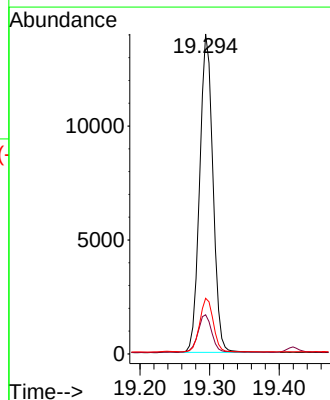
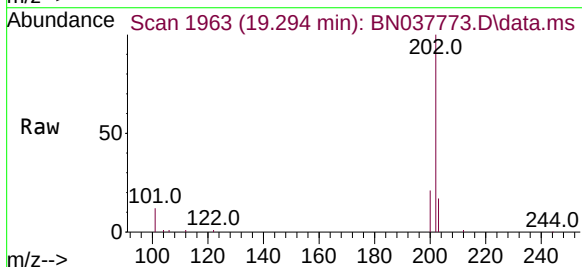
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

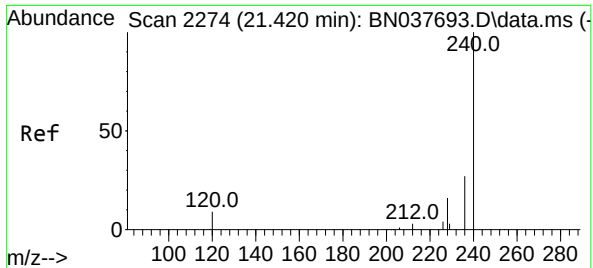
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.8	12.2	18.2
104	8.7	6.9	10.3



#28
Fluoranthene
Concen: 0.376 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.3	9.3	13.9
203	17.2	13.7	20.5

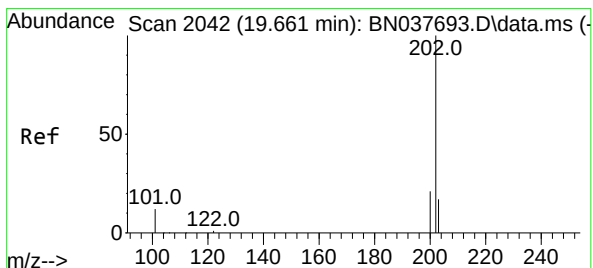
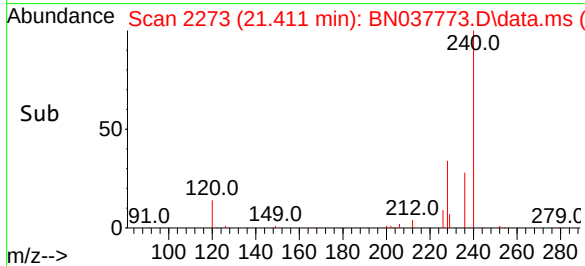
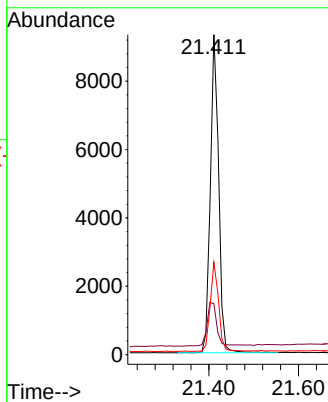
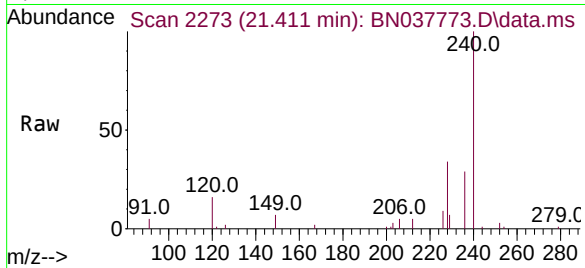




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

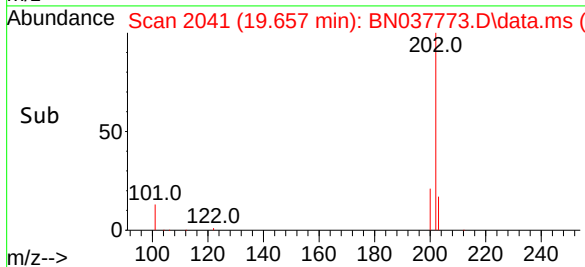
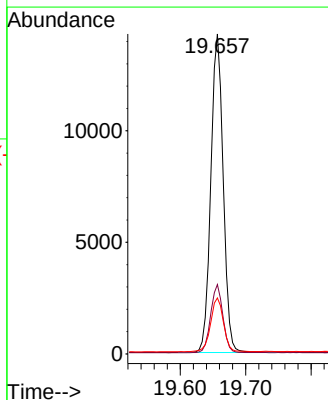
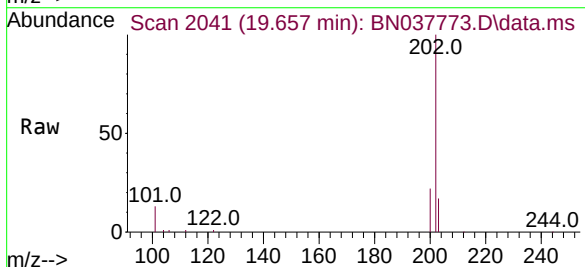
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

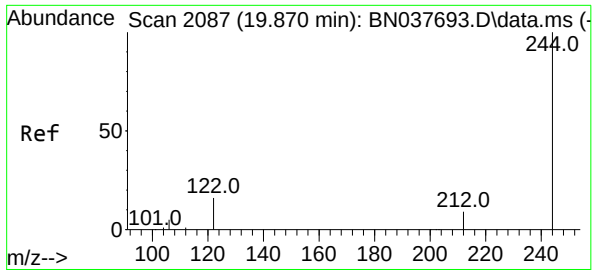
Tgt Ion:240 Resp: 11982
Ion Ratio Lower Upper
240 100
120 15.9 9.2 13.8#
236 28.8 22.6 33.8



#30
Pyrene
Concen: 0.400 ng
RT: 19.657 min Scan# 2041
Delta R.T. -0.005 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:202 Resp: 18763
Ion Ratio Lower Upper
202 100
200 21.1 16.8 25.2
203 17.7 14.3 21.5

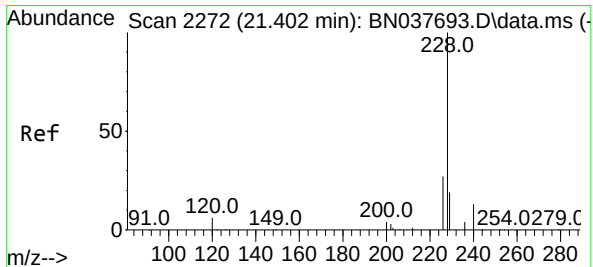
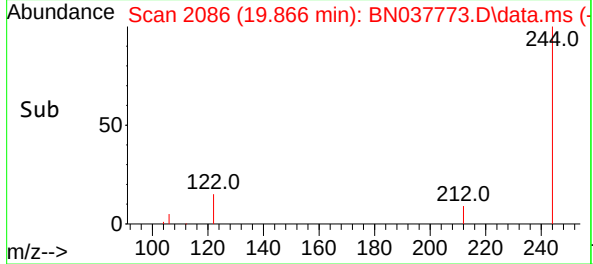
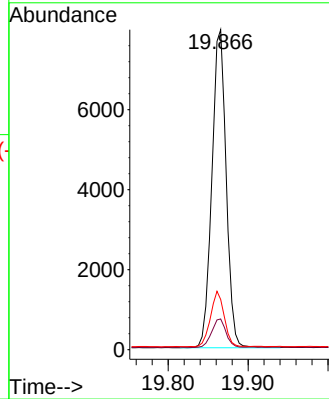
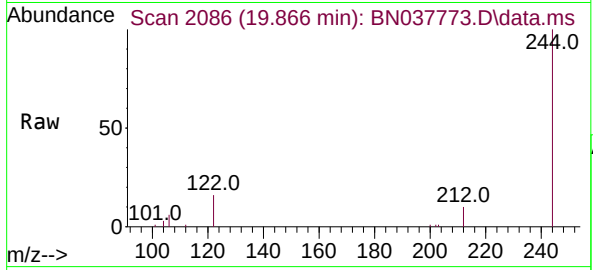




#31
Terphenyl-d14
Concen: 0.406 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

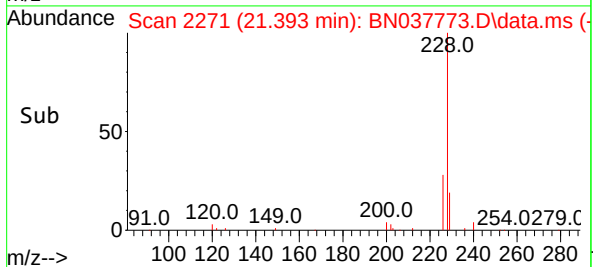
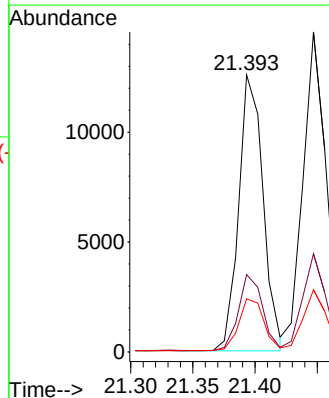
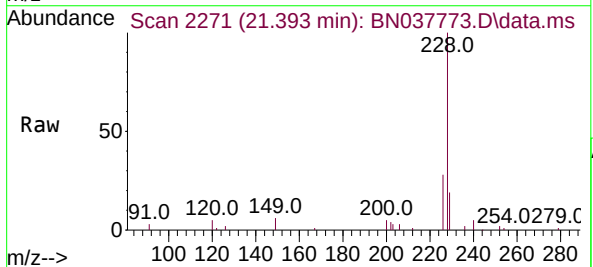
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

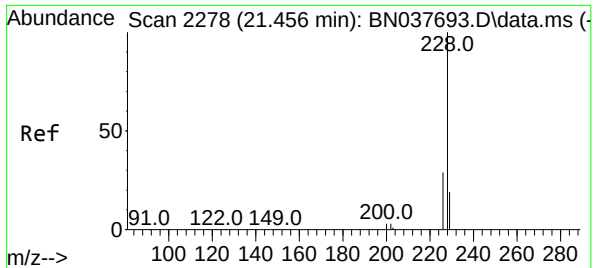
Tgt Ion:244 Resp: 9877
Ion Ratio Lower Upper
244 100
212 9.6 7.5 11.3
122 15.7 13.2 19.8



#32
Benzo(a)anthracene
Concen: 0.409 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:228 Resp: 17097
Ion Ratio Lower Upper
228 100
226 27.9 22.2 33.2
229 19.2 15.8 23.6

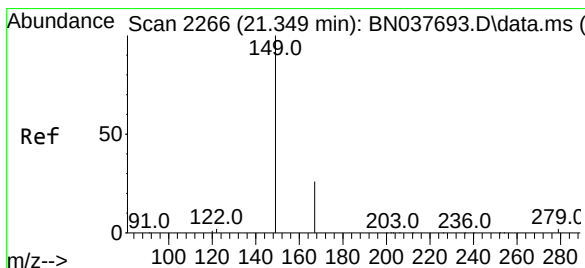
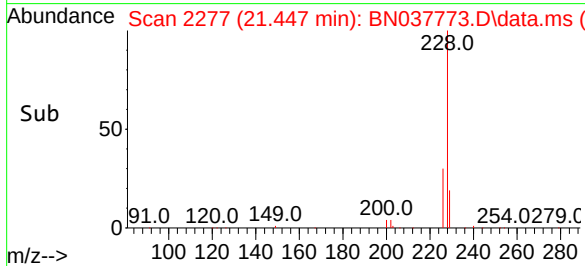
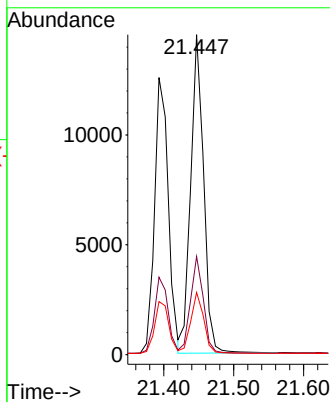
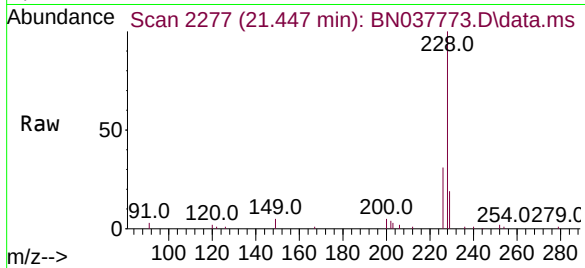




#33
Chrysene
Concen: 0.418 ng
RT: 21.447 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

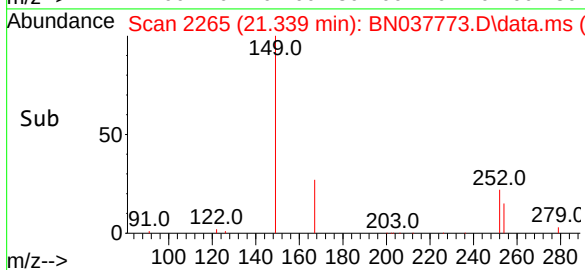
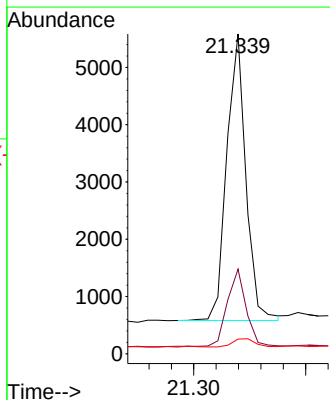
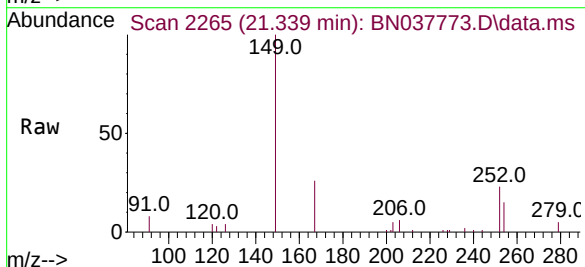
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

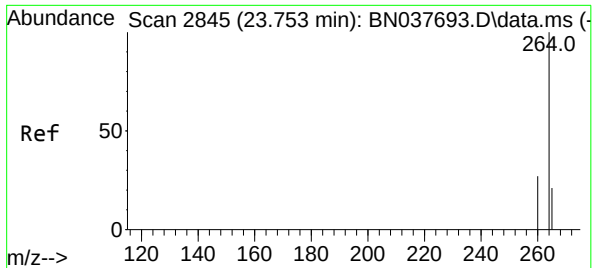
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	23.5	35.3
229	19.4	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.477 ng
RT: 21.339 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

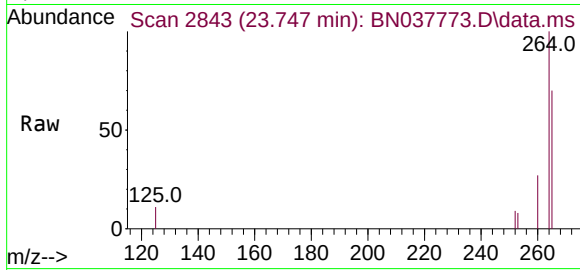
Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.2	20.8	31.2
279	3.4	3.3	4.9



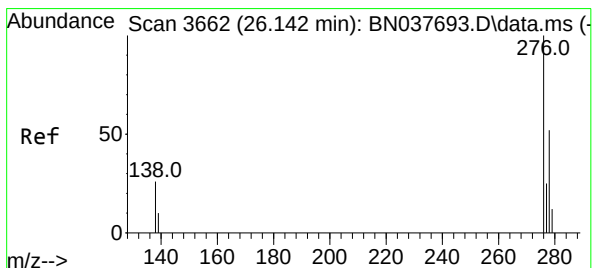
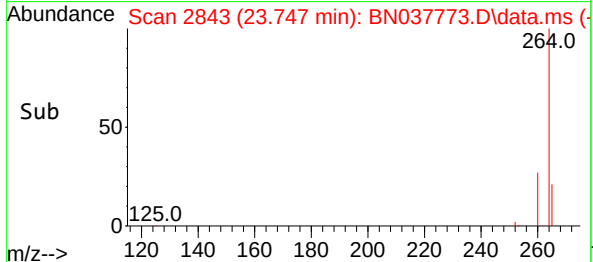
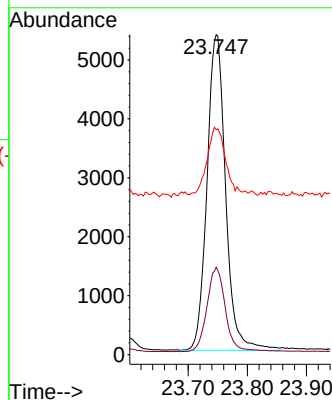


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.747 min Scan# 2843
Delta R.T. -0.006 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

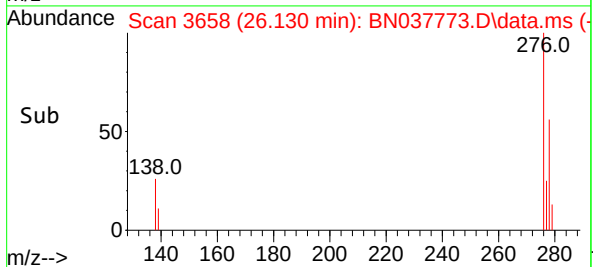
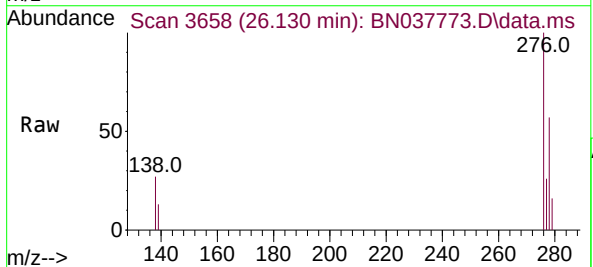
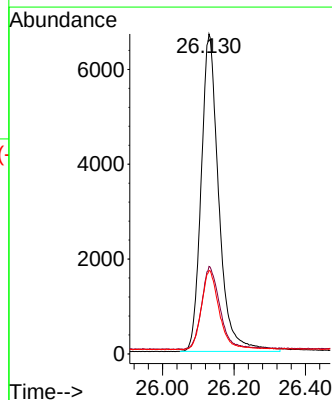


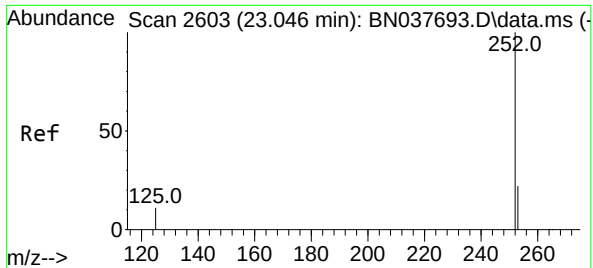
Tgt Ion:264 Resp: 11726
Ion Ratio Lower Upper
264 100
260 27.3 21.8 32.8
265 70.3 39.4 59.2#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.465 ng
RT: 26.130 min Scan# 3658
Delta R.T. -0.012 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:276 Resp: 22920
Ion Ratio Lower Upper
276 100
138 26.8 21.9 32.9
277 25.2 20.1 30.1

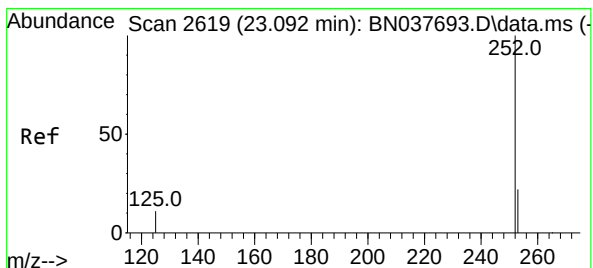
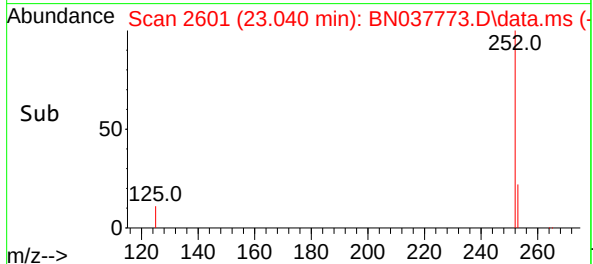
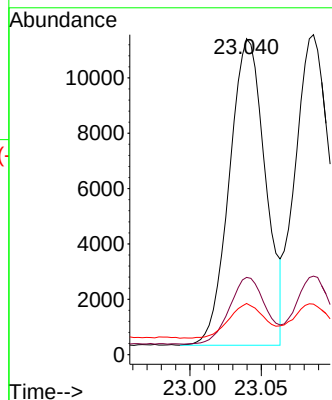
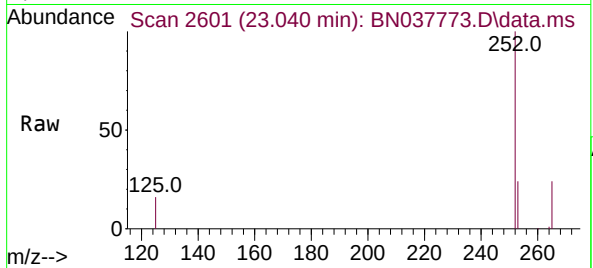




#37
Benzo(b)fluoranthene
Concen: 0.420 ng
RT: 23.040 min Scan# 2603
Delta R.T. -0.006 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

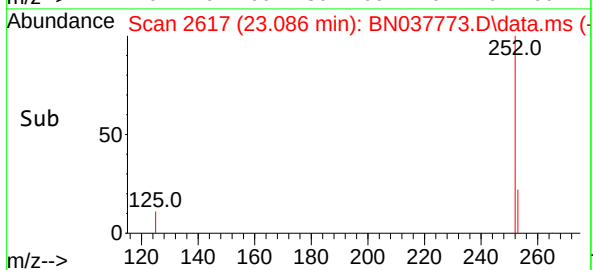
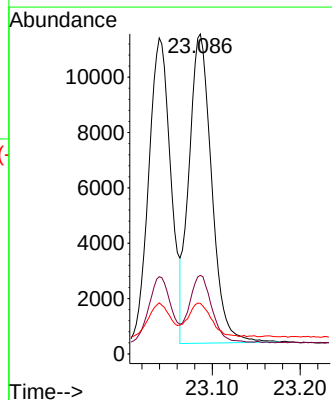
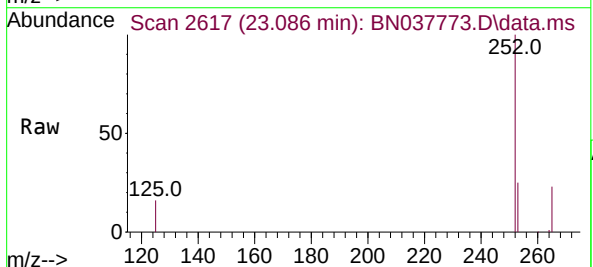
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

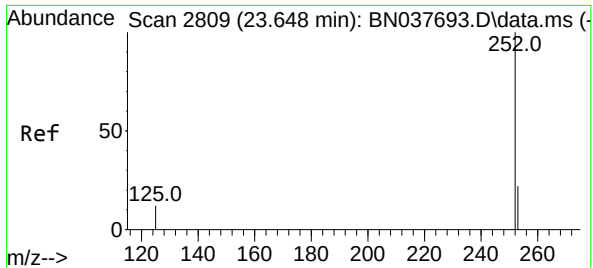
Tgt Ion:252 Resp: 19407
Ion Ratio Lower Upper
252 100
253 24.4 19.4 29.2
125 16.2 11.2 16.8



#38
Benzo(k)fluoranthene
Concen: 0.424 ng
RT: 23.086 min Scan# 2617
Delta R.T. -0.006 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:252 Resp: 19956
Ion Ratio Lower Upper
252 100
253 24.5 19.4 29.0
125 15.8 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.426 ng

RT: 23.642 min Scan# 2807

Delta R.T. -0.006 min

Lab File: BN037773.D

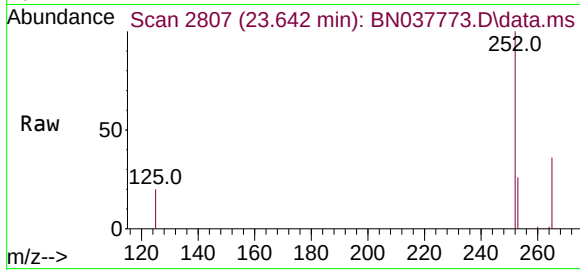
Acq: 18 Sep 2025 12:25

Instrument :

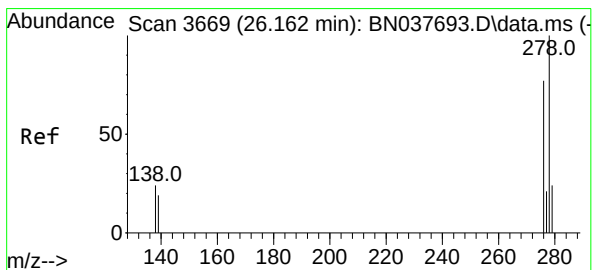
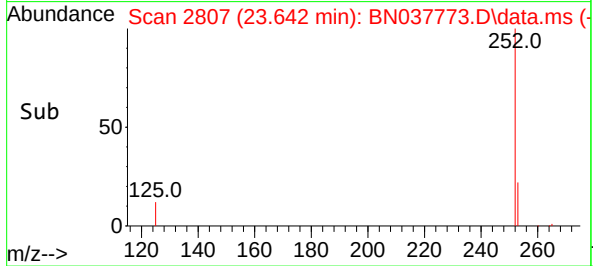
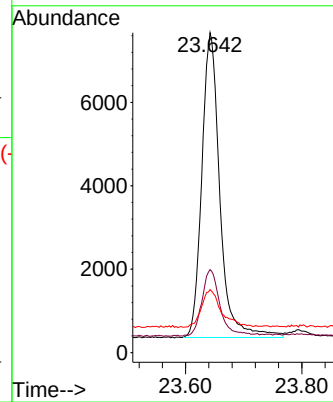
BNA_N

ClientSampleId :

RE103D2-20250911MSD



Tgt Ion:	252	Resp:	15734
Ion Ratio	Lower	Upper	
252	100		
253	25.9	20.8	31.2
125	19.7	13.9	20.9



#40

Dibenzo(a,h)anthracene

Concen: 0.455 ng

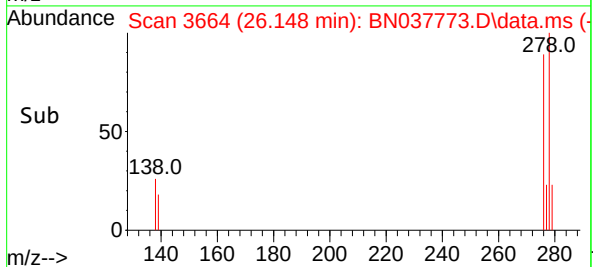
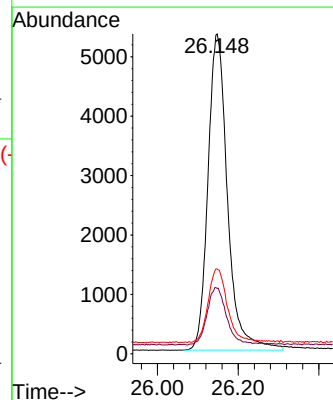
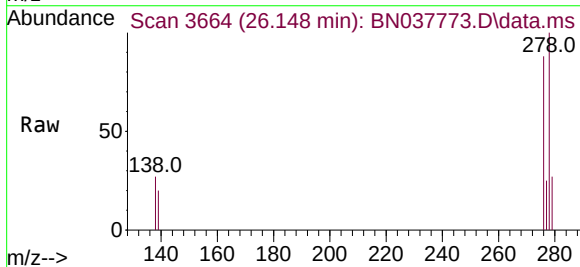
RT: 26.148 min Scan# 3664

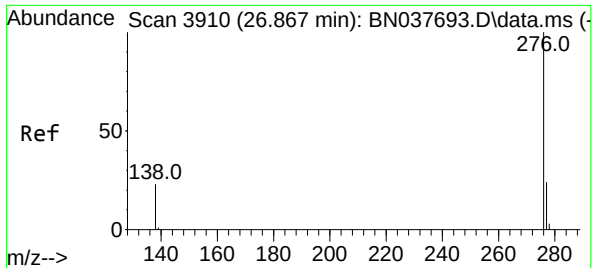
Delta R.T. -0.015 min

Lab File: BN037773.D

Acq: 18 Sep 2025 12:25

Tgt Ion:	278	Resp:	17896
Ion Ratio	Lower	Upper	
278	100		
139	20.5	17.8	26.6
279	26.5	22.0	33.0





#41

Benzo(g,h,i)perylene

Concen: 0.433 ng

RT: 26.855 min Scan# 39

Delta R.T. -0.012 min

Lab File: BN037773.D

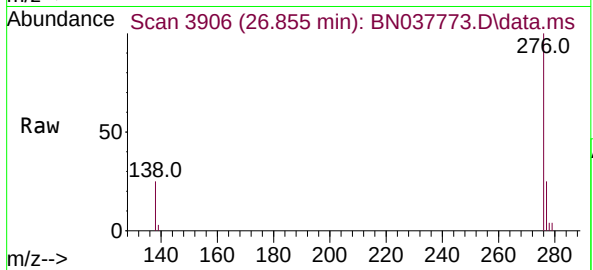
Acq: 18 Sep 2025 12:25

Instrument :

BNA_N

ClientSampleId :

RE103D2-20250911MSD



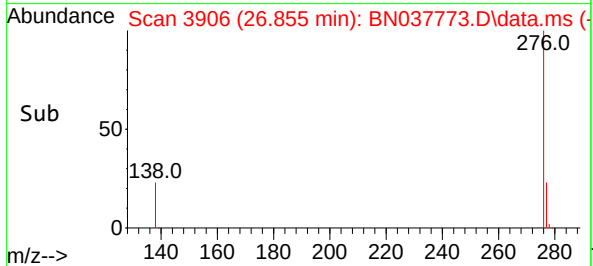
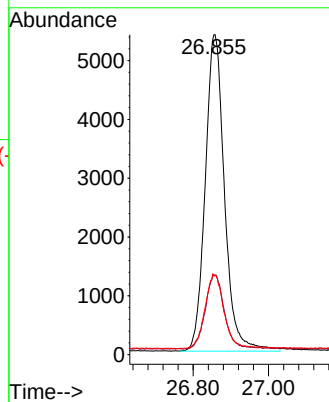
Tgt Ion:276 Resp: 19134

Ion	Ratio	Lower	Upper

276	100		

277	24.9	20.6	31.0

138	24.5	20.2	30.2





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Manual Integration Report

Sequence:

BN091125

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.2	BN037692.D	Benzo(k)fluoranthene	Rahul	9/12/2025 8:44:30 AM	Jagrut	9/12/2025 11:51:26 AM	Peak Integrated by Software



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Manual Integration Report

Sequence:

BN091725

Instrument

BNA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason



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Manual Integration Report

Sequence:	BN091825	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB169693BS	BN037792.D	Benzo(k)fluoranthene	Rahul	9/19/2025 8:46:42 AM	mohammad	9/23/2025 2:07:38 AM	Peak Integrated by Software



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Manual Integration Report

Sequence:

BN091925

Instrument

BNA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN091125

Review By	Rahul	Review On	9/12/2025 10:21:18 AM
Supervise By	Jagrut	Supervise On	9/12/2025 11:52:20 AM
SubDirectory	BN091125	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn091125
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6830,1ul/100ul sample		
ICV/I.BLK	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037689.D	11 Sep 2025 07:54	RC/JU	Ok
2	SSTDCCC0.4	BN037690.D	11 Sep 2025 09:20	RC/JU	Ok
3	SSTDICC0.1	BN037691.D	11 Sep 2025 09:56	RC/JU	Ok
4	SSTDICC0.2	BN037692.D	11 Sep 2025 10:32	RC/JU	Ok,M
5	SSTDICCC0.4	BN037693.D	11 Sep 2025 11:08	RC/JU	Ok
6	SSTDICC0.8	BN037694.D	11 Sep 2025 11:44	RC/JU	Ok
7	SSTDICC1.6	BN037695.D	11 Sep 2025 12:20	RC/JU	Ok
8	SSTDICC3.2	BN037696.D	11 Sep 2025 12:56	RC/JU	Ok
9	SSTDICC5.0	BN037697.D	11 Sep 2025 13:33	RC/JU	Ok
10	SSTDICV0.4	BN037698.D	11 Sep 2025 14:09	RC/JU	Ok
11	PB169529BL	BN037699.D	11 Sep 2025 14:45	RC/JU	Ok
12	Q2893-03	BN037700.D	11 Sep 2025 15:21	RC/JU	Ok
13	Q2893-03	BN037701.D	11 Sep 2025 15:58	RC/JU	Ok
14	Q2893-09	BN037702.D	11 Sep 2025 16:34	RC/JU	Ok
15	Q2893-09	BN037703.D	11 Sep 2025 17:10	RC/JU	Ok
16	PB169527BL	BN037704.D	11 Sep 2025 17:47	RC/JU	Ok
17	SSTDCCC0.4	BN037705.D	11 Sep 2025 18:23	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN091725

Review By	Rahul	Review On	9/18/2025 2:11:37 PM
Supervise By	Jagrut	Supervise On	9/18/2025 5:21:45 PM
SubDirectory	BN091725	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn091125
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6830,1ul/100ul sample		
ICV/I.BLK	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037739.D	17 Sep 2025 10:46	RC/JU	Ok
2	SSTDCCC0.4	BN037740.D	17 Sep 2025 11:25	RC/JU	Ok
3	PB169692BL	BN037741.D	17 Sep 2025 12:02	RC/JU	Ok
4	Q3095-05	BN037742.D	17 Sep 2025 12:38	RC/JU	Ok
5	Q3095-06MS	BN037743.D	17 Sep 2025 13:14	RC/JU	Ok
6	Q3095-07MSD	BN037744.D	17 Sep 2025 13:59	RC/JU	Ok
7	Q3086-01	BN037745.D	17 Sep 2025 14:35	RC/JU	Ok
8	Q3086-02	BN037746.D	17 Sep 2025 15:11	RC/JU	Ok
9	Q3095-01	BN037747.D	17 Sep 2025 15:47	RC/JU	Ok
10	Q3095-02	BN037748.D	17 Sep 2025 16:24	RC/JU	Ok
11	Q3095-03	BN037749.D	17 Sep 2025 17:00	RC/JU	Dilution
12	Q3095-04	BN037750.D	17 Sep 2025 17:36	RC/JU	Ok
13	Q3095-08	BN037751.D	17 Sep 2025 18:13	RC/JU	Ok
14	Q3095-09	BN037752.D	17 Sep 2025 18:49	RC/JU	Ok
15	Q3095-10	BN037753.D	17 Sep 2025 19:25	RC/JU	Ok
16	Q3095-11	BN037754.D	17 Sep 2025 20:01	RC/JU	Ok
17	Q3095-13	BN037755.D	17 Sep 2025 20:37	RC/JU	Ok
18	SP6870	BN037756.D	17 Sep 2025 21:13	RC/JU	Ok
19	SSTDCCC0.4	BN037757.D	17 Sep 2025 21:50	RC/JU	Ok
20	DFTPP	BN037758.D	18 Sep 2025 02:06	RC/JU	Ok
21	SSTDCCC0.4	BN037759.D	18 Sep 2025 02:46	RC/JU	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN091725

Review By	Rahul	Review On	9/18/2025 2:11:37 PM
Supervise By	Jagrut	Supervise On	9/18/2025 5:21:45 PM
SubDirectory	BN091725	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn091125
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6830,1ul/100ul sample		
ICV/I.BLK	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	PB169692BL	BN037760.D	18 Sep 2025 03:22	RC/JU	Ok
23	Q3095-12	BN037761.D	18 Sep 2025 03:58	RC/JU	Ok
24	Q3095-14	BN037762.D	18 Sep 2025 04:34	RC/JU	Ok
25	Q3095-15	BN037763.D	18 Sep 2025 05:10	RC/JU	Ok
26	Q3095-16	BN037764.D	18 Sep 2025 05:46	RC/JU	Ok
27	Q3095-17	BN037765.D	18 Sep 2025 06:23	RC/JU	Ok
28	Q3095-18	BN037766.D	18 Sep 2025 06:59	RC/JU	Ok
29	Q3095-19	BN037767.D	18 Sep 2025 07:35	RC/JU	Ok
30	Q3095-20	BN037768.D	18 Sep 2025 08:11	RC/JU	Ok
31	Q3097-07	BN037769.D	18 Sep 2025 08:47	RC/JU	Ok
32	Q3097-08	BN037770.D	18 Sep 2025 09:23	RC/JU	Dilution
33	Q3097-01	BN037771.D	18 Sep 2025 10:00	RC/JU	Ok
34	Q3097-02MS	BN037772.D	18 Sep 2025 11:48	RC/JU	Ok
35	Q3097-03MSD	BN037773.D	18 Sep 2025 12:25	RC/JU	Ok
36	SSTDCCC0.4	BN037774.D	18 Sep 2025 13:16	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN091825

Review By	Rahul	Review On	9/19/2025 8:50:16 AM
Supervise By	mohammad	Supervise On	9/23/2025 2:07:38 AM
SubDirectory	BN091825	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn091125
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6830,1ul/100ul sample		
ICV/I.BLK	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037775.D	18 Sep 2025 13:53	RC/JU	Ok
2	SSTDCCC0.4	BN037776.D	18 Sep 2025 14:32	RC/JU	Ok
3	PB169693BL	BN037777.D	18 Sep 2025 15:10	RC/JU	Ok
4	Q3097-09	BN037778.D	18 Sep 2025 15:47	RC/JU	Ok
5	Q3097-04	BN037779.D	18 Sep 2025 16:23	RC/JU	Ok
6	Q3097-05	BN037780.D	18 Sep 2025 17:00	RC/JU	Ok
7	Q3097-06	BN037781.D	18 Sep 2025 17:36	RC/JU	Ok
8	Q3083-03	BN037782.D	18 Sep 2025 18:12	RC/JU	Dilution
9	Q3095-21	BN037783.D	18 Sep 2025 18:49	RC/JU	Ok
10	Q3095-22	BN037784.D	18 Sep 2025 19:25	RC/JU	Ok
11	Q3095-23	BN037785.D	18 Sep 2025 20:02	RC/JU	Ok
12	Q3095-24	BN037786.D	18 Sep 2025 20:38	RC/JU	Ok
13	Q3095-25	BN037787.D	18 Sep 2025 21:14	RC/JU	Ok
14	Q3095-26	BN037788.D	18 Sep 2025 21:51	RC/JU	Ok
15	Q3095-03DL	BN037789.D	18 Sep 2025 22:27	RC/JU	Ok
16	Q3097-08DL	BN037790.D	18 Sep 2025 23:03	RC/JU	Ok
17	PB169692BS	BN037791.D	18 Sep 2025 23:40	RC/JU	Ok
18	PB169693BS	BN037792.D	19 Sep 2025 00:16	RC/JU	Ok,M
19	SSTDCCC0.4	BN037793.D	19 Sep 2025 00:52	RC/JU	Ok
20	DFTPP	BN037794.D	19 Sep 2025 02:08	RC/JU	Ok
21	SSTDCCC0.4	BN037795.D	19 Sep 2025 02:47	RC/JU	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN091825

Review By	Rahul	Review On	9/19/2025 8:50:16 AM
Supervise By	mohammad	Supervise On	9/23/2025 2:07:38 AM
SubDirectory	BN091825	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn091125
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6830,1ul/100ul sample		
ICV/I.BLK	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	PB169692BL	BN037796.D	19 Sep 2025 03:24	RC/JU	Ok
23	Q3095-29	BN037797.D	19 Sep 2025 04:00	RC/JU	Ok
24	Q3095-30	BN037798.D	19 Sep 2025 04:37	RC/JU	Ok
25	Q3095-31	BN037799.D	19 Sep 2025 05:13	RC/JU	Ok
26	Q3095-32	BN037800.D	19 Sep 2025 05:49	RC/JU	Ok
27	Q3097-10	BN037801.D	19 Sep 2025 06:25	RC/JU	Ok
28	Q3097-11	BN037802.D	19 Sep 2025 07:01	RC/JU	Ok
29	Q3097-12	BN037803.D	19 Sep 2025 07:37	RC/JU	Ok
30	Q3097-13	BN037804.D	19 Sep 2025 08:13	RC/JU	Dilution
31	Q3097-14	BN037805.D	19 Sep 2025 08:49	RC/JU	Ok
32	Q3097-15	BN037806.D	19 Sep 2025 09:25	RC/JU	Ok
33	Q3097-19	BN037807.D	19 Sep 2025 10:02	RC/JU	Dilution
34	Q3127-13	BN037808.D	19 Sep 2025 10:38	RC/JU	Ok
35	Q3127-14MS	BN037809.D	19 Sep 2025 11:50	RC/JU	Ok,M
36	Q3127-15MSD	BN037810.D	19 Sep 2025 12:27	RC/JU	Ok,M
37	SSTDCCC0.4	BN037811.D	19 Sep 2025 13:03	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN091925

Review By	Rahul	Review On	9/22/2025 8:49:07 AM
Supervise By	mohammad	Supervise On	9/23/2025 2:08:18 AM
SubDirectory	BN091925	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn091125
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6830,1ul/100ul sample		
ICV/I.BLK	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037812.D	19 Sep 2025 13:39	RC/JU	Ok
2	SSTDCCC0.4	BN037813.D	19 Sep 2025 14:19	RC/JU	Ok
3	PB169743BL	BN037814.D	19 Sep 2025 14:55	RC/JU	Ok
4	Q3095-27	BN037815.D	19 Sep 2025 15:32	RC/JU	Ok
5	Q3083-03DL	BN037816.D	19 Sep 2025 16:08	RC/JU	Ok
6	Q3097-13DL	BN037817.D	19 Sep 2025 16:45	RC/JU	Ok
7	Q3097-19DL	BN037818.D	19 Sep 2025 17:21	RC/JU	Ok
8	Q3097-21	BN037819.D	19 Sep 2025 17:58	RC/JU	Ok
9	Q3097-22	BN037820.D	19 Sep 2025 18:34	RC/JU	Ok
10	Q3097-23	BN037821.D	19 Sep 2025 19:11	RC/JU	Ok
11	Q3097-24	BN037822.D	19 Sep 2025 19:47	RC/JU	Dilution
12	Q3097-25	BN037823.D	19 Sep 2025 20:24	RC/JU	Dilution
13	Q3097-26	BN037824.D	19 Sep 2025 21:00	RC/JU	Ok
14	Q3127-01	BN037825.D	19 Sep 2025 21:37	RC/JU	Ok
15	Q3127-02	BN037826.D	19 Sep 2025 22:13	RC/JU	Dilution
16	Q3127-03	BN037827.D	19 Sep 2025 22:50	RC/JU	Dilution
17	Q3127-04	BN037828.D	19 Sep 2025 23:26	RC/JU	Dilution
18	PB169743BS	BN037829.D	20 Sep 2025 00:03	RC/JU	Ok
19	SSTDCCC0.4	BN037830.D	20 Sep 2025 00:39	RC/JU	Ok
20	DFTPP	BN037831.D	20 Sep 2025 01:16	RC/JU	Ok
21	SSTDCCC0.4	BN037832.D	20 Sep 2025 02:35	RC/JU	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN091925

Review By	Rahul	Review On	9/22/2025 8:49:07 AM
Supervise By	mohammad	Supervise On	9/23/2025 2:08:18 AM
SubDirectory	BN091925	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn091125
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6830,1ul/100ul sample		
ICV/I.BLK	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	PB169743BL	BN037833.D	20 Sep 2025 03:12	RC/JU	Ok
23	Q3127-05	BN037834.D	20 Sep 2025 03:48	RC/JU	Ok
24	Q3127-06	BN037835.D	20 Sep 2025 04:25	RC/JU	Ok
25	Q3127-07	BN037836.D	20 Sep 2025 05:01	RC/JU	Ok
26	Q3127-08	BN037837.D	20 Sep 2025 05:37	RC/JU	Dilution
27	Q3127-09	BN037838.D	20 Sep 2025 06:13	RC/JU	Ok
28	Q3127-10	BN037839.D	20 Sep 2025 06:50	RC/JU	Ok
29	Q3127-11	BN037840.D	20 Sep 2025 07:26	RC/JU	Ok
30	Q3127-12	BN037841.D	20 Sep 2025 08:02	RC/JU	Ok
31	Q3127-16	BN037842.D	20 Sep 2025 08:38	RC/JU	Dilution
32	Q3095-28	BN037843.D	20 Sep 2025 09:14	RC/JU	Ok
33	Q3097-20	BN037844.D	20 Sep 2025 09:51	RC/JU	Dilution
34	Q3127-18	BN037845.D	20 Sep 2025 10:27	RC/JU	Ok
35	Q3127-19	BN037846.D	20 Sep 2025 11:03	RC/JU	Ok
36	SSTDCCC0.4	BN037847.D	20 Sep 2025 11:39	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN091125

Review By	Rahul	Review On	9/12/2025 10:21:18 AM
Supervise By	Jagrut	Supervise On	9/12/2025 11:52:20 AM
SubDirectory	BN091125	HP Acquire Method	BNA_N, 8270_HP Processing Method bn091125

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	SP6757 SP6842, SP6843, SP6844, SP6845, SP6846, SP6847, SP6848
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	SP6846 SP6830, 1ul/100ul sample SP6854

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037689.D	11 Sep 2025 07:54		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037690.D	11 Sep 2025 09:20	A Fresh Calibration is required.	RC/JU	Ok
3	SSTDICC0.1	SSTDICC0.1	BN037691.D	11 Sep 2025 09:56		RC/JU	Ok
4	SSTDICC0.2	SSTDICC0.2	BN037692.D	11 Sep 2025 10:32		RC/JU	Ok,M
5	SSTDICCC0.4	SSTDICCC0.4	BN037693.D	11 Sep 2025 11:08		RC/JU	Ok
6	SSTDICC0.8	SSTDICC0.8	BN037694.D	11 Sep 2025 11:44		RC/JU	Ok
7	SSTDICC1.6	SSTDICC1.6	BN037695.D	11 Sep 2025 12:20		RC/JU	Ok
8	SSTDICC3.2	SSTDICC3.2	BN037696.D	11 Sep 2025 12:56		RC/JU	Ok
9	SSTDICC5.0	SSTDICC5.0	BN037697.D	11 Sep 2025 13:33	Compound#14,20 removed from 5 ppm	RC/JU	Ok
10	SSTDICV0.4	ICVBN091125	BN037698.D	11 Sep 2025 14:09		RC/JU	Ok
11	PB169529BL	PB169529BL	BN037699.D	11 Sep 2025 14:45		RC/JU	Ok
12	Q2893-03	MDL-SOIL-03-QT3-202	BN037700.D	11 Sep 2025 15:21	MDL-SOIL -0.1 ppm	RC/JU	Ok
13	Q2893-03	MDL-SOIL-03-QT3-202	BN037701.D	11 Sep 2025 15:58	MDL-SOIL -0.2 ppm	RC/JU	Ok
14	Q2893-09	MDL-WATER-03-QT3-2	BN037702.D	11 Sep 2025 16:34	MDL-WATER -0.1 ppm	RC/JU	Ok
15	Q2893-09	MDL-WATER-03-QT3-2	BN037703.D	11 Sep 2025 17:10	MDL-WATER -0.2 ppm	RC/JU	Ok
16	PB169527BL	PB169527BL	BN037704.D	11 Sep 2025 17:47		RC/JU	Ok
17	SSTDCCC0.4	SSTDCCC0.4EC	BN037705.D	11 Sep 2025 18:23		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN091725

Review By	Rahul	Review On	9/18/2025 2:11:37 PM
Supervise By	Jagrut	Supervise On	9/18/2025 5:21:45 PM
SubDirectory	BN091725	HP Acquire Method	BNA_N, 8270_HP Processing Method bn091125

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	SP6757 SP6842, SP6843, SP6844, SP6845, SP6846, SP6847, SP6848
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	SP6846 SP6830, 1ul/100ul sample SP6854

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037739.D	17 Sep 2025 10:46		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037740.D	17 Sep 2025 11:25		RC/JU	Ok
3	PB169692BL	PB169692BL	BN037741.D	17 Sep 2025 12:02		RC/JU	Ok
4	Q3095-05	MW203D2-20250909	BN037742.D	17 Sep 2025 12:38		RC/JU	Ok
5	Q3095-06MS	MW203D2-20250909M	BN037743.D	17 Sep 2025 13:14		RC/JU	Ok
6	Q3095-07MSD	MW203D2-20250909M	BN037744.D	17 Sep 2025 13:59		RC/JU	Ok
7	Q3086-01	RW8-SP100-20250911	BN037745.D	17 Sep 2025 14:35		RC/JU	Ok
8	Q3086-02	RW8-SP303-20250911	BN037746.D	17 Sep 2025 15:11		RC/JU	Ok
9	Q3095-01	MW305I-20250908	BN037747.D	17 Sep 2025 15:47		RC/JU	Ok
10	Q3095-02	MW179D-20250908	BN037748.D	17 Sep 2025 16:24		RC/JU	Ok
11	Q3095-03	MW201D-20250908	BN037749.D	17 Sep 2025 17:00	Need 2X Dilution	RC/JU	Dilution
12	Q3095-04	MW179D1-20250908	BN037750.D	17 Sep 2025 17:36		RC/JU	Ok
13	Q3095-08	MW203D1-20250909	BN037751.D	17 Sep 2025 18:13		RC/JU	Ok
14	Q3095-09	MW179D2-20250909	BN037752.D	17 Sep 2025 18:49		RC/JU	Ok
15	Q3095-10	MW201D1-20250909	BN037753.D	17 Sep 2025 19:25		RC/JU	Ok
16	Q3095-11	RE122D1-20250909	BN037754.D	17 Sep 2025 20:01		RC/JU	Ok
17	Q3095-13	MW178I1-20250909	BN037755.D	17 Sep 2025 20:37		RC/JU	Ok
18	SP6870	SP6870	BN037756.D	17 Sep 2025 21:13		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN091725

Review By	Rahul	Review On	9/18/2025 2:11:37 PM
Supervise By	Jagrut	Supervise On	9/18/2025 5:21:45 PM
SubDirectory	BN091725	HP Acquire Method	BNA_N, 8270_HP Processing Method bn091125
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	SP6757 SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	SP6846 SP6830,1ul/100ul sample SP6854		

19	SSTDCCC0.4	SSTDCCC0.4EC	BN037757.D	17 Sep 2025 21:50		RC/JU	Ok
20	DFTPP	DFTPP	BN037758.D	18 Sep 2025 02:06		RC/JU	Ok
21	SSTDCCC0.4	SSTDCCC0.4	BN037759.D	18 Sep 2025 02:46		RC/JU	Ok
22	PB169692BL	PB169692BL	BN037760.D	18 Sep 2025 03:22		RC/JU	Ok
23	Q3095-12	MW202D-20250909	BN037761.D	18 Sep 2025 03:58		RC/JU	Ok
24	Q3095-14	RE123D1-20250909	BN037762.D	18 Sep 2025 04:34		RC/JU	Ok
25	Q3095-15	RE123D3-20250909	BN037763.D	18 Sep 2025 05:10		RC/JU	Ok
26	Q3095-16	MW305D-20250909	BN037764.D	18 Sep 2025 05:46		RC/JU	Ok
27	Q3095-17	DUP01-20250909	BN037765.D	18 Sep 2025 06:23		RC/JU	Ok
28	Q3095-18	RE126D2-20250909	BN037766.D	18 Sep 2025 06:59		RC/JU	Ok
29	Q3095-19	RE126D3-20250909	BN037767.D	18 Sep 2025 07:35		RC/JU	Ok
30	Q3095-20	MW178S-20250910	BN037768.D	18 Sep 2025 08:11		RC/JU	Ok
31	Q3097-07	RE108D2-20250911	BN037769.D	18 Sep 2025 08:47		RC/JU	Ok
32	Q3097-08	RE125D2-20250911	BN037770.D	18 Sep 2025 09:23	Need 5X Dilution	RC/JU	Dilution
33	Q3097-01	RE103D2-20250911	BN037771.D	18 Sep 2025 10:00		RC/JU	Ok
34	Q3097-02MS	RE103D2-20250911MS	BN037772.D	18 Sep 2025 11:48		RC/JU	Ok
35	Q3097-03MSD	RE103D2-20250911MS	BN037773.D	18 Sep 2025 12:25		RC/JU	Ok
36	SSTDCCC0.4	SSTDCCC0.4EC	BN037774.D	18 Sep 2025 13:16		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN091825

Review By	Rahul	Review On	9/19/2025 8:50:16 AM
Supervise By	mohammad	Supervise On	9/23/2025 2:07:38 AM
SubDirectory	BN091825	HP Acquire Method	BNA_N, 8270_HP Processing Method bn091125

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	SP6757 SP6842, SP6843, SP6844, SP6845, SP6846, SP6847, SP6848
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	SP6846 SP6830, 1ul/100ul sample SP6854

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037775.D	18 Sep 2025 13:53		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037776.D	18 Sep 2025 14:32		RC/JU	Ok
3	PB169693BL	PB169693BL	BN037777.D	18 Sep 2025 15:10		RC/JU	Ok
4	Q3097-09	RE108D1-20250911	BN037778.D	18 Sep 2025 15:47		RC/JU	Ok
5	Q3097-04	RE125D1-20250911	BN037779.D	18 Sep 2025 16:23		RC/JU	Ok
6	Q3097-05	RE125D3-20250911	BN037780.D	18 Sep 2025 17:00		RC/JU	Ok
7	Q3097-06	RE103D3-20250911	BN037781.D	18 Sep 2025 17:36		RC/JU	Ok
8	Q3083-03	MW3S	BN037782.D	18 Sep 2025 18:12	Need 2x Dilution	RC/JU	Dilution
9	Q3095-21	RE126D1-20250910	BN037783.D	18 Sep 2025 18:49		RC/JU	Ok
10	Q3095-22	MW202D1-20250910	BN037784.D	18 Sep 2025 19:25		RC/JU	Ok
11	Q3095-23	RE104D2-20250910	BN037785.D	18 Sep 2025 20:02		RC/JU	Ok
12	Q3095-24	MW178I-20250910	BN037786.D	18 Sep 2025 20:38		RC/JU	Ok
13	Q3095-25	DUP02-20250910	BN037787.D	18 Sep 2025 21:14		RC/JU	Ok
14	Q3095-26	DUP03-20250910	BN037788.D	18 Sep 2025 21:51		RC/JU	Ok
15	Q3095-03DL	MW201D-20250908DL	BN037789.D	18 Sep 2025 22:27		RC/JU	Ok
16	Q3097-08DL	RE125D2-20250911DL	BN037790.D	18 Sep 2025 23:03		RC/JU	Ok
17	PB169692BS	PB169692BS	BN037791.D	18 Sep 2025 23:40		RC/JU	Ok
18	PB169693BS	PB169693BS	BN037792.D	19 Sep 2025 00:16		RC/JU	Ok,M

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN091825

Review By	Rahul	Review On	9/19/2025 8:50:16 AM
Supervise By	mohammad	Supervise On	9/23/2025 2:07:38 AM
SubDirectory	BN091825	HP Acquire Method	BNA_N, 8270_HP Processing Method bn091125
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6830,1ul/100ul sample		
ICV/I.BLK	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	SSTDCCC0.4	SSTDCCC0.4EC	BN037793.D	19 Sep 2025 00:52		RC/JU	Ok
20	DFTPP	DFTPP	BN037794.D	19 Sep 2025 02:08		RC/JU	Ok
21	SSTDCCC0.4	SSTDCCC0.4	BN037795.D	19 Sep 2025 02:47		RC/JU	Ok
22	PB169692BL	PB169692BL	BN037796.D	19 Sep 2025 03:24		RC/JU	Ok
23	Q3095-29	RE122D2-20250910	BN037797.D	19 Sep 2025 04:00		RC/JU	Ok
24	Q3095-30	RE104D1-20250910	BN037798.D	19 Sep 2025 04:37		RC/JU	Ok
25	Q3095-31	TT180D-20250911	BN037799.D	19 Sep 2025 05:13		RC/JU	Ok
26	Q3095-32	RE122D3-20250911	BN037800.D	19 Sep 2025 05:49		RC/JU	Ok
27	Q3097-10	RE120D3-20250911	BN037801.D	19 Sep 2025 06:25		RC/JU	Ok
28	Q3097-11	RE105D1-20250911	BN037802.D	19 Sep 2025 07:01		RC/JU	Ok
29	Q3097-12	DUP04-20250911	BN037803.D	19 Sep 2025 07:37		RC/JU	Ok
30	Q3097-13	DUP05-20250911	BN037804.D	19 Sep 2025 08:13	Need 2X Dilution	RC/JU	Dilution
31	Q3097-14	RE105D2-20250911	BN037805.D	19 Sep 2025 08:49		RC/JU	Ok
32	Q3097-15	RE117D2-20250911	BN037806.D	19 Sep 2025 09:25		RC/JU	Ok
33	Q3097-19	RE120D1-20250912	BN037807.D	19 Sep 2025 10:02	Need 2X Dilution	RC/JU	Dilution
34	Q3127-13	TT119S1-20250916	BN037808.D	19 Sep 2025 10:38		RC/JU	Ok
35	Q3127-14MS	TT119S1-20250916MS	BN037809.D	19 Sep 2025 11:50		RC/JU	Ok,M
36	Q3127-15MSD	TT119S1-20250916MS	BN037810.D	19 Sep 2025 12:27		RC/JU	Ok,M
37	SSTDCCC0.4	SSTDCCC0.4EC	BN037811.D	19 Sep 2025 13:03		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN091825

Review By	Rahul	Review On	9/19/2025 8:50:16 AM
Supervise By	mohammad	Supervise On	9/23/2025 2:07:38 AM
SubDirectory	BN091825	HP Acquire Method	BNA_N, 8270_HP Processing Method bn091125
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6830,1ul/100ul sample		
ICV/I.BLK	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN091925

Review By	Rahul	Review On	9/22/2025 8:49:07 AM
Supervise By	mohammad	Supervise On	9/23/2025 2:08:18 AM
SubDirectory	BN091925	HP Acquire Method	BNA_N, 8270_HP Processing Method bn091125

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	SP6757 SP6842, SP6843, SP6844, SP6845, SP6846, SP6847, SP6848
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	SP6846 SP6830, 1ul/100ul sample SP6854

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037812.D	19 Sep 2025 13:39		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037813.D	19 Sep 2025 14:19		RC/JU	Ok
3	PB169743BL	PB169743BL	BN037814.D	19 Sep 2025 14:55		RC/JU	Ok
4	Q3095-27	RE117D1-20250910	BN037815.D	19 Sep 2025 15:32		RC/JU	Ok
5	Q3083-03DL	MW3SDL	BN037816.D	19 Sep 2025 16:08		RC/JU	Ok
6	Q3097-13DL	DUP05-20250911DL	BN037817.D	19 Sep 2025 16:45		RC/JU	Ok
7	Q3097-19DL	RE120D1-20250912DL	BN037818.D	19 Sep 2025 17:21		RC/JU	Ok
8	Q3097-21	RE120D2-20250912	BN037819.D	19 Sep 2025 17:58		RC/JU	Ok
9	Q3097-22	RE134D1-20250912	BN037820.D	19 Sep 2025 18:34		RC/JU	Ok
10	Q3097-23	RE134D4-20250912	BN037821.D	19 Sep 2025 19:11		RC/JU	Ok
11	Q3097-24	RE134D2-20250912	BN037822.D	19 Sep 2025 19:47	Need 2X Dilution	RC/JU	Dilution
12	Q3097-25	RE134D3-20250912	BN037823.D	19 Sep 2025 20:24	Need 2X Dilution	RC/JU	Dilution
13	Q3097-26	EB01-20250912	BN037824.D	19 Sep 2025 21:00		RC/JU	Ok
14	Q3127-01	DUP08-20250915	BN037825.D	19 Sep 2025 21:37		RC/JU	Ok
15	Q3127-02	RE131D1-20250915	BN037826.D	19 Sep 2025 22:13	Need 2X Dilution	RC/JU	Dilution
16	Q3127-03	RE131D2-20250915	BN037827.D	19 Sep 2025 22:50	Need 2X Dilution	RC/JU	Dilution
17	Q3127-04	DUP07-20250915	BN037828.D	19 Sep 2025 23:26	Need 2X Dilution	RC/JU	Dilution
18	PB169743BS	PB169743BS	BN037829.D	20 Sep 2025 00:03		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN091925

Review By	Rahul	Review On	9/22/2025 8:49:07 AM
Supervise By	mohammad	Supervise On	9/23/2025 2:08:18 AM
SubDirectory	BN091925	HP Acquire Method	BNA_N, 8270_HP Processing Method bn091125
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	SP6757 SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	SP6846 SP6830,1ul/100ul sample SP6854		

19	SSTDCCC0.4	SSTDCCC0.4EC	BN037830.D	20 Sep 2025 00:39		RC/JU	Ok
20	DFTPP	DFTPP	BN037831.D	20 Sep 2025 01:16		RC/JU	Ok
21	SSTDCCC0.4	SSTDCCC0.4	BN037832.D	20 Sep 2025 02:35		RC/JU	Ok
22	PB169743BL	PB169743BL	BN037833.D	20 Sep 2025 03:12		RC/JU	Ok
23	Q3127-05	TT15811-20250915	BN037834.D	20 Sep 2025 03:48		RC/JU	Ok
24	Q3127-06	TT180D2-20250915	BN037835.D	20 Sep 2025 04:25		RC/JU	Ok
25	Q3127-07	RE135D2-20250915	BN037836.D	20 Sep 2025 05:01		RC/JU	Ok
26	Q3127-08	RE132D6-20250916	BN037837.D	20 Sep 2025 05:37	Need 2X Dilution	RC/JU	Dilution
27	Q3127-09	TT101D2-20250915	BN037838.D	20 Sep 2025 06:13		RC/JU	Ok
28	Q3127-10	TT101D-20250915	BN037839.D	20 Sep 2025 06:50		RC/JU	Ok
29	Q3127-11	RE135D3-20250915	BN037840.D	20 Sep 2025 07:26		RC/JU	Ok
30	Q3127-12	RE132D7-20250916	BN037841.D	20 Sep 2025 08:02		RC/JU	Ok
31	Q3127-16	TT101D2-20250915	BN037842.D	20 Sep 2025 08:38	Need 2X Dilution	RC/JU	Dilution
32	Q3095-28	RE104D3-20250910	BN037843.D	20 Sep 2025 09:14		RC/JU	Ok
33	Q3097-20	DUP06-20250912	BN037844.D	20 Sep 2025 09:51	Need 2X Dilution	RC/JU	Dilution
34	Q3127-18	BPOW1-8-20250917	BN037845.D	20 Sep 2025 10:27		RC/JU	Ok
35	Q3127-19	BPOW1-7-20250917	BN037846.D	20 Sep 2025 11:03		RC/JU	Ok
36	SSTDCCC0.4	SSTDCCC0.4EC	BN037847.D	20 Sep 2025 11:39		RC/JU	Ok

M : Manual Integration

SOP ID:	M3510C,3580A-Extraction SVOC-21		
Clean Up SOP #:	N/A	Extraction Start Date :	09/15/2025
Matrix :	Water	Extraction Start Time :	10:15
Welgh By:	N/A	Extraction By:	RJ
Balance check:	N/A	Filter By:	RJ
Balance ID:	N/A	pH Meter ID:	N/A
pH Strlp Lot#:	N/A	Hood ID:	4,5,6,7
Extraction Method:	☒ Separatory Funnel	☐ Continious Liquid/Liquid	☐ Sonication
		☐ Waste Dilution	☐ Soxhlet
		Extraction End Date :	09/15/2025
		Extraction End Time :	14:30
		Concentration By:	EH
		Supervisor By :	ritesh

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6855
Surrogate	1.0ML	0.4 PPM	SP6831
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3937
Baked Na2SO4	N/A	EP2639
H2SO4 1:1	N/A	EP2610
10N NaoH	N/A	EP2609
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

PH Adjusted TO <2 with 1:1 H2SO4 & >11with 10N NAOH ,1.5ML Vial Lot #2210443.

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

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
9/15/25	RJ (Ext-116)	RJ/960C
14:35	Preparation Group	Analysis Group

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

Concentration Date: 09/15/2025

Sample ID	Client Sample ID	Test	g / (mL)	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169692BL	SBLK692	SVOC-SIMGrou p1	1000	N/A	ritesh	Evelyn	1			SEP-1
PB169692BS	SLCS692	SVOC-SIMGrou p1	1000	N/A	ritesh	Evelyn	1			2
Q3086-01	RW8-SP100-20250911	SVOC-SIMGrou p1	1000	N/A	ritesh	Evelyn	1	D		3
Q3086-02	RW8-SP303-20250911	SVOC-SIMGrou p1	1000	N/A	ritesh	Evelyn	1	D		4
Q3095-01	MW30S1-20250908	SVOC-SIMGrou p1	980	N/A	ritesh	Evelyn	1	C		5
Q3095-02	MW179D-20250908	SVOC-SIMGrou p1	1000	N/A	ritesh	Evelyn	1	C		6
Q3095-03	MW201D-20250908	SVOC-SIMGrou p1	1000	N/A	ritesh	Evelyn	1	C		7
Q3095-04	MW179D1-20250908	SVOC-SIMGrou p1	1000	N/A	ritesh	Evelyn	1	C		8
Q3095-05	MW203D2-20250909	SVOC-SIMGrou p1	1000	N/A	ritesh	Evelyn	1	C		9
Q3095-06	Q3095-05MS	SVOC-SIMGrou p1	1000	N/A	ritesh	Evelyn	1	C		10
Q3095-07	Q3095-05MSD	SVOC-SIMGrou p1	1000	N/A	ritesh	Evelyn	1	C		11
Q3095-08	MW203D1-20250909	SVOC-SIMGrou p1	1000	N/A	ritesh	Evelyn	1	C		12
Q3095-09	MW179D2-20250909	SVOC-SIMGrou p1	970	N/A	ritesh	Evelyn	1	C		13
Q3095-10	MW201D1-20250909	SVOC-SIMGrou p1	1000	N/A	ritesh	Evelyn	1	C		14
Q3095-11	RE122D1-20250909	SVOC-SIMGrou p1	1000	N/A	ritesh	Evelyn	1	C		15
Q3095-12	MW202D-20250909	SVOC-SIMGrou p1	1000	N/A	ritesh	Evelyn	1	C		16
Q3095-13	MW178I1-20250909	SVOC-SIMGrou p1	1000	N/A	ritesh	Evelyn	1	C		SEP-1
Q3095-14	RE123D1-20250909	SVOC-SIMGrou p1	970	N/A	ritesh	Evelyn	1	C		2
Q3095-15	RE123D3-20250909	SVOC-SIMGrou p1	990	N/A	ritesh	Evelyn	1	C		3
Q3095-16	MW305D-20250909	SVOC-SIMGrou p1	1000	N/A	ritesh	Evelyn	1	C		4
Q3095-17	DUP01-20250909	SVOC-SIMGrou p1	1000	N/A	ritesh	Evelyn	1	C		5
Q3095-18	RE126D2-20250909	SVOC-SIMGrou p1	1000	N/A	ritesh	Evelyn	1	C		6
Q3095-19	RE126D3-20250909	SVOC-SIMGrou p1	1000	N/A	ritesh	Evelyn	1	C		7
Q3095-20	MW178S-20250910	SVOC-SIMGrou p1	1000	N/A	ritesh	Evelyn	1	C		8

* Extracts relinquished on the same date as received.

RJ
9/15

6949
10:15

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3086

WorkList ID : 191876

Department : Extraction

Date : 09-15-2025 10:10:33

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3086-01	RW8-SP100-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	TETRO6	D31	09/11/2025	8270-Modified
Q3086-02	RW8-SP303-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	TETRO6	D31	09/11/2025	8270-Modified
Q3095-01	MW30S1-20250908	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/08/2025	8270-Modified
Q3095-02	MW179D-20250908	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/08/2025	8270-Modified
Q3095-03	MW201D-20250908	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/08/2025	8270-Modified
Q3095-04	MW179D1-20250908	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/08/2025	8270-Modified
Q3095-05	MW203D2-20250909	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/08/2025	8270-Modified
Q3095-06	Q3095-05MS	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/09/2025	8270-Modified
Q3095-07	Q3095-05MSD	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/09/2025	8270-Modified
Q3095-08	MW203D1-20250909	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/09/2025	8270-Modified
Q3095-09	MW179D2-20250909	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/09/2025	8270-Modified
Q3095-10	MW201D1-20250909	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/09/2025	8270-Modified
Q3095-11	RE122D1-20250909	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/09/2025	8270-Modified
Q3095-12	MW202D-20250909	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/09/2025	8270-Modified
Q3095-13	MW17811-20250909	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/09/2025	8270-Modified
Q3095-14	RE123D1-20250909	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/09/2025	8270-Modified
Q3095-15	RE123D3-20250909	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/09/2025	8270-Modified
Q3095-16	MW305D-20250909	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/09/2025	8270-Modified
Q3095-17	DUP01-20250909	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/09/2025	8270-Modified
Q3095-18	RE126D2-20250909	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/09/2025	8270-Modified
Q3095-19	RE126D3-20250909	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/09/2025	8270-Modified

Date/Time 9/15/25 10:10

Raw Sample Received by: RJ (GRT-146)

Raw Sample Relinquished by: OR 8

Date/Time 9/15/25 10:50

Raw Sample Received by: OR 8

Raw Sample Relinquished by: RJ (GRT-146)

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3086 WorkList ID : 191876 Department : Extraction Date : 09-15-2025 10:54:33

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3095-20	MW178S-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified

Date/Time 9/15/25 10:16
 Raw Sample Received by: RJ (EXT-1060)
 Raw Sample Relinquished by: AS

Date/Time 9/15/25 10:50
 Raw Sample Received by: AS
 Raw Sample Relinquished by: RJ (EXT-1060)

SOP ID: M3510C,3580A-Extraction SVOC-21

Clean Up SOP #: N/A

Extraction Start Date : 09/15/2025

Matrix : Water

Extraction Start Time : 12:00

Weigh By: N/A

Extraction By: RJ

Extraction End Date : 09/15/2025

Balance check: N/A

Filter By: RJ

Extraction End Time : 16:30

Balance ID: N/A

pH Meter ID: N/A

Concentration By: EH

pH Strip Lot#: N/A

Hood ID: 4,5,6,7

Supervisor By : ritesh

Extraction Method: ☒ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6855
Surrogate	1.0ML	0.4 PPM	SP6831
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3937
Baked Na2SO4	N/A	EP2639
H2SO4 1:1	N/A	EP2610
10N NaOH	N/A	EP2609
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

PH Adjusted TO <2 with 1:1 H2SO4 & >11with 10N NAOH ,1.5ML Vial Lot #2210443.

KD Bath ID: WATER BATH-1,2

Envap ID: NEVAP-02

KD Bath Temperature: 60 °C

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
9/15/25	RJ (EXT-100b)	Ritesh
16:35	Preparation Group	Analysis Group

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

Concentration Date: 09/15/2025

Sample ID	Client Sample ID	Test	g / (mL)	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169693BL	SBLK693	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1			SEP-1
PB169693BS	SLCS693	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1			2
Q3083-03	MW3S	SVOC-SIM	1000	6	ritesh	Evelyn	1	C		3
Q3095-21	RE126D1-20250910	SVOC-SIMGrou p1	990	6	ritesh	Evelyn	1	C		4
Q3095-22	MW202D1-20250910	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		5
Q3095-23	RE104D2-20250910	SVOC-SIMGrou p1	980	6	ritesh	Evelyn	1	C		6
Q3095-24	MW178I-20250910	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		7
Q3095-25	DUP02-20250910	SVOC-SIMGrou p1	970	6	ritesh	Evelyn	1	C		8
Q3095-26	DUP0-20250910	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		9
Q3095-27	RE117D1-20250910	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		10
Q3095-28	RE104D3-20250910	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		11
Q3095-29	RE122D2-20250910	SVOC-SIMGrou p1	980	6	ritesh	Evelyn	1	C		12
Q3095-30	RE104D1-20250910	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		13
Q3095-31	TT180D-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		14
Q3095-32	RE122D3-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		15
Q3097-01	RE103D2-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		16
Q3097-02	Q3097-01MS	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		SEP-1
Q3097-03	Q3097-01MSD	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		2
Q3097-04	RE125D1-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		3
Q3097-05	RE125D3-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		4
Q3097-06	RE103D3-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		5
Q3097-07	RE108D2-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		6
Q3097-08	RE125D2-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		7
Q3097-09	RE108D1-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		8

* Extracts relinquished on the same date as received.

RJ
9/15

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3095 WorkList ID : 191877 Department : Extraction Date : 09-15-2025 11:28:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3083-03	MW3S	Water	SVOC-SIM	Cool 4 deg C	GENV01	D31	09/11/2025	8270-Modified
Q3095-21	RE126D1-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-22	MW202D1-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-23	RE104D2-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-24	MW178I-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-25	DUP02-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-26	DUP0-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-27	RE117D1-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-28	RE104D3-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-29	RE122D2-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-30	RE104D1-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-31	TT180D-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/11/2025	8270-Modified
Q3095-32	RE122D3-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/11/2025	8270-Modified
Q3097-01	RE103D2-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-02	Q3097-01MS	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-03	Q3097-01MSD	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-04	RE125D1-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-05	RE125D3-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-06	RE103D3-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-07	RE108D2-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-08	RE125D2-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified

Date/Time 09/15/25 11:55
 Raw Sample Received by: RJ (CFL-044)
 Raw Sample Relinquished by: QSR

Date/Time 09/15/25 12:35
 Raw Sample Received by: QSR
 Raw Sample Relinquished by: RJ (CFL-044)

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3095 WorkList ID : 191877 Department : Extraction Date : 09-15-2025 11:28:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3097-09	RE108D1-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified

Date/Time 09/15/25 11:55
 Raw Sample Received by: R3 (674-1ae6)
 Raw Sample Relinquished by: AP

Date/Time 09/15/25 12:35
 Raw Sample Received by: AP
 Raw Sample Relinquished by: R3 (674-1ae6)

Prep Standard - Chemical Standard Summary

Order ID : Q3095

Test : SVOC-SIMGroup1

Prepbatch ID : PB169692,PB169693,

Sequence ID/Qc Batch ID: BN091725,BN091825,BN091825,BN091925,BN091925,

Standard ID :

EP2609,EP2610,EP2639,SP6757,SP6830,SP6831,SP6841,SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848,SP6853,SP6854,SP6855,

Chemical ID :

1ul/100ul

sample,E3657,E3875,E3904,E3932,E3940,E3942,E3943,E3973,M6157,S10105,S11073,S11496,S11652,S11807,S11828,S12115,S12195,S12197,S12216,S12220,S12273,S12498,S12499,S12552,S12577,S12670,S12986,S13058,W3112,



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2609	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/07/2025
<u>FROM</u>	1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml							

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

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	EP2639	09/12/2025	01/28/2026	Riteshkumar Patel	Extraction_SC ALE_2	None	Evelyn Huang

(EX-SC-2)

FROM 4000.00000gram of E3875 = Final Quantity: 4000.000 gram

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTTP 8270E	SP6757	03/31/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay

04/01/2025

FROM 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6830	06/17/2025	12/13/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/19/2025

FROM 0.10000ml of S12670 + 4.90000ml of E3942 = Final Quantity: 5.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3491	8270-SIM-Surrogate 0.4 PPM	SP6831	06/18/2025	09/18/2025	Rahul Chavli	None	None	Jagrut Upadhyay
								06/18/2025

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



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3339	8270 sim calibration stock 10ppm (CPI)	SP6841	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 06/25/2025
<u>FROM</u> 0.03350ml of S10105 + 0.05000ml of S11496 + 0.12500ml of S11828 + 0.12500ml of S12115 + 0.25000ml of S12273 + 0.25000ml of S13058 + 24.16650ml of E3943 = Final Quantity: 25.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6842	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 06/25/2025
<u>FROM</u> 0.50000ml of E3943 + 0.01000ml of SP6830 + 0.50000ml of SP6841 = Final Quantity: 1.010 ml								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6843	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.68000ml of E3943 + 0.01000ml of SP6830 + 0.32000ml of SP6841 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6844	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.84000ml of E3943 + 0.01000ml of SP6830 + 0.16000ml of SP6841 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6845	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.92000ml of E3943 + 0.01000ml of SP6830 + 0.08000ml of SP6841 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6846	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.96000ml of E3943 + 0.01000ml of SP6830 + 0.04000ml of SP6841 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6847	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.50000ml of E3943 + 0.01000ml of SP6830 + 0.50000ml of SP6846 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6848	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.75000ml of E3943 + 0.01000ml of SP6830 + 0.25000ml of SP6846 = Final Quantity: 1.010 ml



<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 SOURCE	SP6853	07/02/2025	09/30/2025	Jagrut Upadhyay	None	None	Rahul Chavli 07/08/2025
<u>FROM</u>	0.00630ml of S12197 + 0.01280ml of S12220 + 0.03200ml of S11073 + 0.03200ml of S11828 + 0.06400ml of S12499 + 0.06400ml of S12552 + 0.06400ml of S12986 + 19.72490ml of E3943 = Final Quantity: 20.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6854	07/02/2025	09/30/2025	Jagrut Upadhyay	None	None	Rahul Chavli
SOURCE 0.87500ml of E3943 + 0.01000ml of SP6830 + 0.12500ml of SP6853 = Final Quantity: 1.010 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6855	07/30/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay 08/05/2025
<u>FROM</u>	0.00080ml of S11652 + 0.01000ml of S11807 + 0.02000ml of S12498 + 0.02000ml of S12552 + 0.02000ml of S12986 + 49.92920ml of E3932 = Final Quantity: 50.000 ml							

CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	417203	01/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	01/07/2026	03/13/2025 /	12/27/2024 / RUPESH	E3904

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	11/05/2025	05/05/2025 / RUPESH	04/23/2025 / RUPESH	E3932

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	12/11/2025	06/11/2025 / Rajesh	06/04/2025 / Rajesh	E3940

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3942

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3943

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25C1262005	04/16/2026	09/15/2025 / Riteshkumar	09/15/2025 / Riteshkumar	E3973

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	24i1262013	11/07/2025	05/07/2025 / RUPESH	02/18/2025 / Mohan	M6157

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	12/19/2025	06/19/2025 / Jagrut	12/09/2021 / Christian	S10105

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	11/16/2025	05/16/2025 / Jagrut	02/06/2023 / Christian	S11073

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	10/28/2025	04/28/2025 / Jagrut	08/11/2023 / Yogesh	S11496

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	01/30/2026	07/30/2025 / Rahul	11/09/2023 / Yogesh	S11652

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0200655	01/01/2026	07/01/2025 / Rahul	11/21/2023 / rahul	S11807

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	12/09/2025	06/09/2025 / Jagrut	11/21/2023 / rahul	S11828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	10/28/2025	04/28/2025 / Jagrut	03/08/2024 / Rahul	S12115

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12195

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12197

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12216

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0206381	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12220

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	12/25/2025	06/25/2025 / Jagrut	05/24/2024 / Rahul	S12273

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	12/04/2025	06/04/2025 / Jagrut	07/23/2024 / RAHUL	S12498

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12499

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12552

[CS 4978-2]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH ₂ Cl ₂ , 1mL,	A0212955	06/30/2027	03/31/2025 / Rahul	08/01/2024 / Rahul	S12577

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0212266	12/16/2025	06/16/2025 / anahy	09/20/2024 / anahy	S12670

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	09/30/2025	06/04/2025 / Jagrut	12/11/2024 / anahy	S12986

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	531243	12/25/2025	06/25/2025 / Jagrut	01/16/2025 / anahy	S13058

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**
Z-112090 440246 $\leq -10^{\circ}\text{C}$ Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Erica Castiglione

Certified By:

Erica Castiglione
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.



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
02/08/23

b1

CG

S 11071

to

S 11075

Catalog No. : 31853 Lot No.: A0187043
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2027 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,4-Dioxane CAS # 123-91-1 Purity 99% (Lot SHBN5929)	2,019.0 µg/mL	+/- 11.8486 µg/mL Gravimetric +/- 43.2570 µg/mL Unstressed +/- 44.5129 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

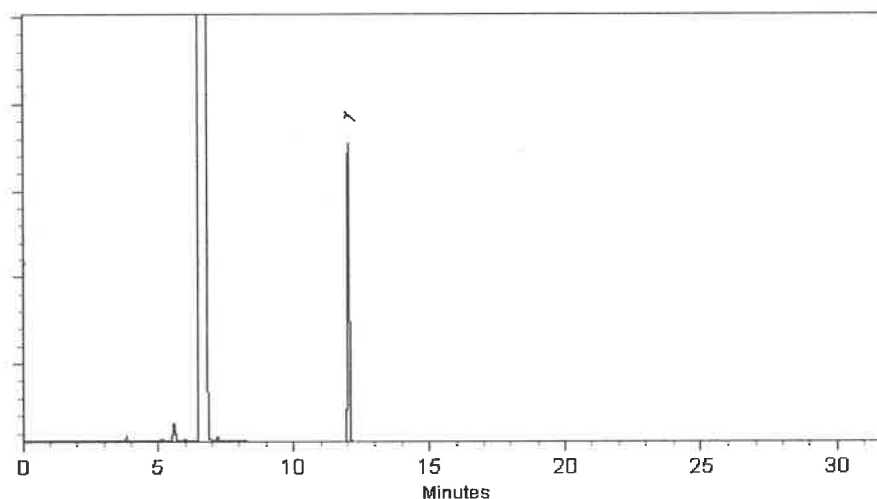
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	$\leq 0.005 \%$	$< 0.005 \%$	PASS
Chloride	$\leq 0.005 \%$	0.002 %	PASS
Heavy Metals	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Iron	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Magnesium	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Mercury	$\leq 0.1 \text{ ppm}$	$< 0.1 \text{ ppm}$	PASS
Nickel	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Nitrogen Compounds	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Phosphate	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Potassium	$\leq 0.02 \%$	$< 0.02 \%$	PASS
Purity	$\geq 97.0 \%$	99.2 %	PASS
Sodium Carbonate	$\leq 1.0 \%$	0.5 %	PASS
Sulfate	$\leq 0.003 \%$	$< 0.003 \%$	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

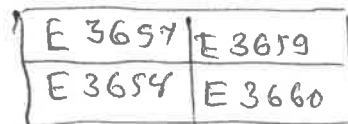
This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.





**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
CP 64070
TEL +52 81 13 52 67 67
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER:	6399	RELEASE DATE:	MAY/23/2024
LOT NUMBER :	417203		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.2
Insoluble matter	Max. 0.01%	0.001 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.001 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.001 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	96.2 %
Through US Standard No. 60 sieve	Max. 5%	3.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RE-02-01, Ed. 3

E 3875

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

 avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

RS

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3932



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Rec'd by RP on 6/11/25

E3940

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25A2862010
Manufactured Date: 2024-12-18
Expiration Date: 2026-03-19
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μ eq/g)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	<0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3942

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™



Material No.: 9266-A4

Batch No.: 25A2862010

Manufactured Date: 2024-12-18

Expiration Date: 2026-03-19

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 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

Avantor Performance Materials LLC

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4

Batch No.: 25C1262005

Manufactured Date: 2025-01-15

Expiration Date: 2026-04-16

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3973

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™



MG157
MS

Material No.: 9673-33

Batch No.: 24I1262013

Manufactured Date: 2024-08-07

Retest Date: 2029-08-06

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H ₂ SO ₄)	95.0 – 98.0 %	96.2 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	<1 ppm
ACS – Substances Reducing Permanganate(as SO ₂)	<= 2 ppm	<2 ppm
Ammonium (NH ₄)	<= 1 ppm	<1 ppm
Chloride (Cl)	<= 0.1 ppm	<0.1 ppm
Nitrate (NO ₃)	<= 0.2 ppm	0.1 ppm
Phosphate (PO ₄)	<= 0.5 ppm	<0.1 ppm
Trace Impurities – Aluminum (Al)	<= 30.0 ppb	<5.0 ppb
Arsenic & Antimony (as As)	<= 4.0 ppb	<2.0 ppb
Trace Impurities – Boron (B)	<= 10.0 ppb	<5.0 ppb
Trace Impurities – Cadmium (Cd)	<= 2.0 ppb	<1.0 ppb
Trace Impurities – Chromium (Cr)	<= 6.0 ppb	<1.0 ppb
Trace Impurities – Cobalt (Co)	<= 0.5 ppb	<0.3 ppb
Trace Impurities – Copper (Cu)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Gold (Au)	<= 10.0 ppb	<5.0 ppb
Heavy Metals (as Pb)	<= 500.0 ppb	<100.0 ppb
Trace Impurities – Iron (Fe)	<= 50.0 ppb	<1.0 ppb
Trace Impurities – Lead (Pb)	<= 0.5 ppb	<0.5 ppb
Trace Impurities – Magnesium (Mg)	<= 7.0 ppb	<1.0 ppb
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	<0.1 ppb
Trace Impurities – Nickel (Ni)	<= 2.0 ppb	<0.3 ppb
Trace Impurities – Potassium (K)	<= 500.0 ppb	<10.0 ppb
Trace Impurities – Selenium (Se)	<= 50.0 ppb	7.2 ppb
Trace Impurities – Silicon (Si)	<= 100.0 ppb	12.8 ppb
Trace Impurities – Silver (Ag)	<= 1.0 ppb	<1.0 ppb

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

 **avantors**™



Material No.: 9673-33

Batch No.: 2411262013

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 5.0 ppb	< 1.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	1.1 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	< 1.0 ppb

For Laboratory, Research, or Manufacturing Use

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak

Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC



5580 Skyline Blvd
Santa Rosa, CA 95403

(707)525-5788

(800)878-7654 Toll Free

(707)545-7901 Fax

Date Received: _____

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

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-d ₅	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

Certified By: _____

Clint Tipton
Chemist

[Signature]

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.

*Not a certified value

511494
↓
511498
08/11/2023
Y.P.



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.



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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0200655
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11795
↓
S11808 } RC /
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBQ1693	99%	2,007.0 µg/mL	+/- 24.9775

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

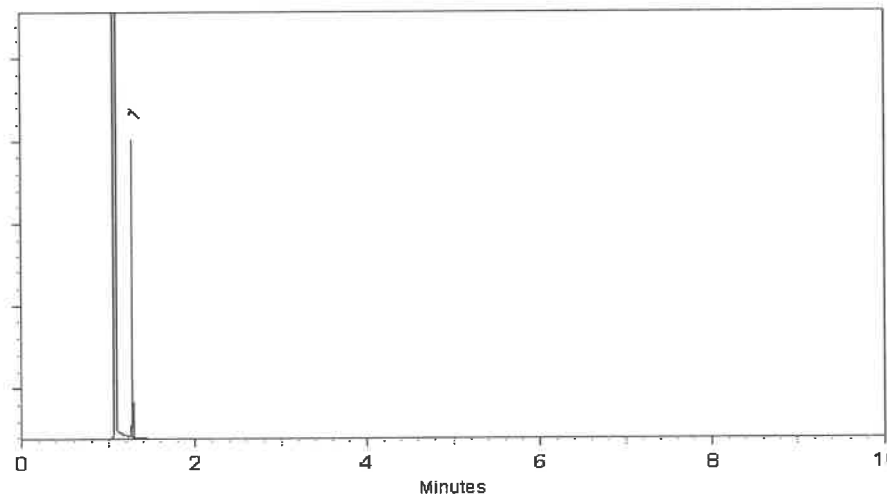
FID

Split Vent:

100 mL/min.

Inj. Vol

1µL



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 06-Aug-2023

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0201976
Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

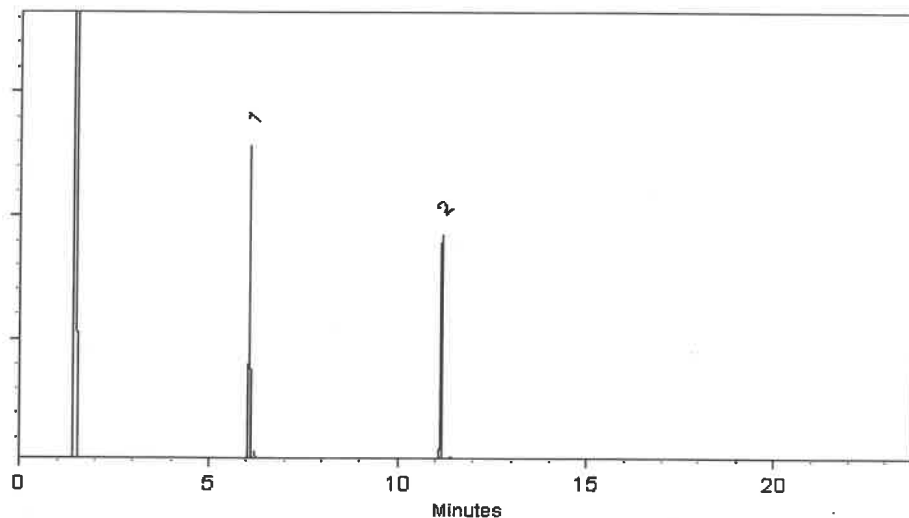
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

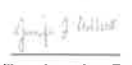


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Date Received: _____

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Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:	
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL	
Compound			CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane			123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓ } 03/18/24
512206 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

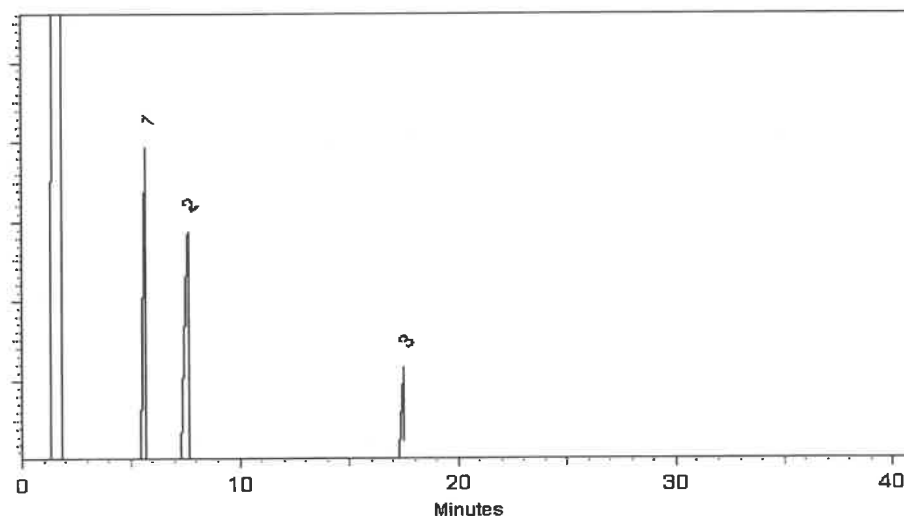
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope S. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓ } 03/18/24
512206 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

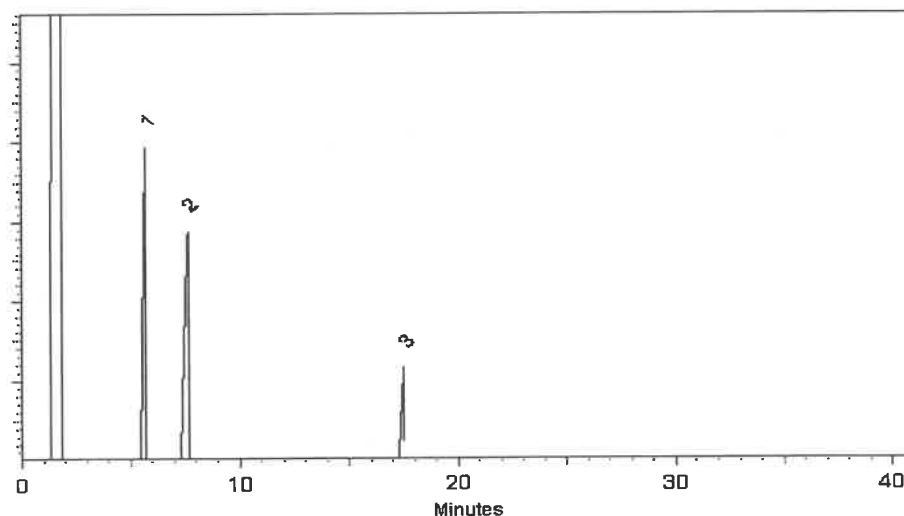
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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Penelope S. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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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:

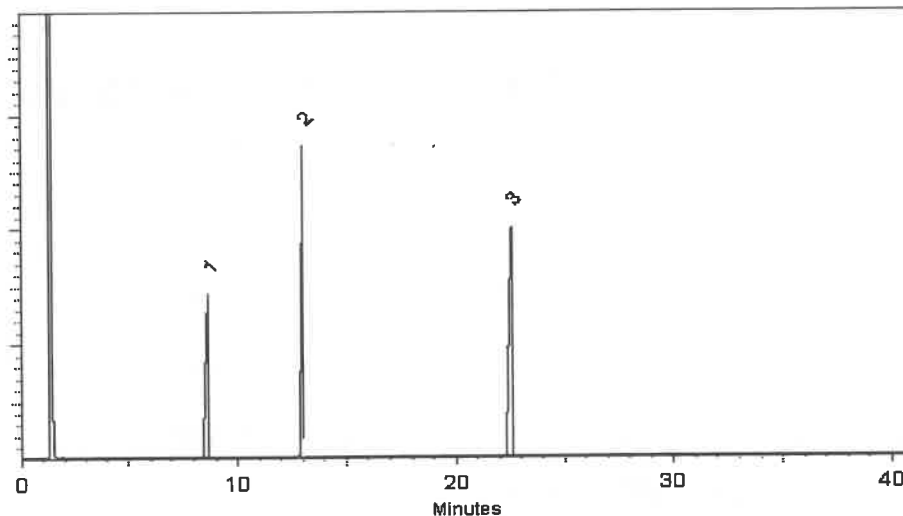
FID

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
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

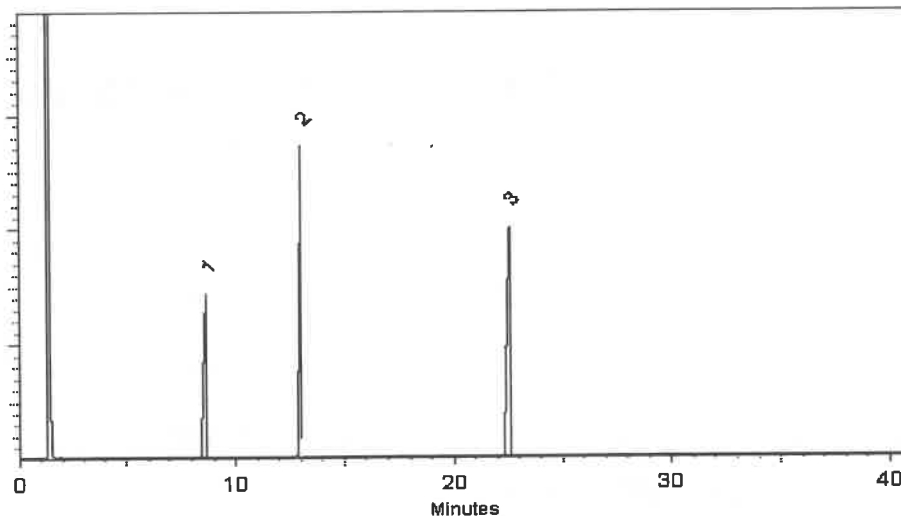
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.

Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value



Certified By: _____

Kerry Kane
Chemist

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Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24


Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31615 **Lot No.:** A0212955

Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2027 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 µg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 µg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 µg/mL	+/- 44.6922

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12577 } RC
↓
S12579 } 8/2/24

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

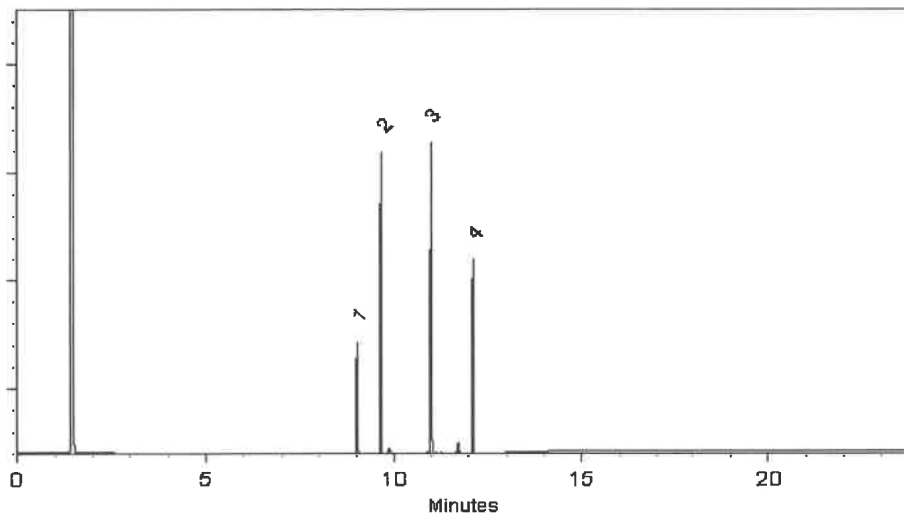
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

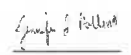


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024

Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645
↓
S12674 } AC
10/1/24



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963
↓
S12992 } AC
12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCKK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCKK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCKK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.



5580 Skyline Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	531243	$\leq -10^{\circ}\text{C}$	Methylene Chloride	1/2/2030	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.4P	997 $\pm$ 5.81
benzidine	92-87-5	99.9	124.18.6.2P	993.8 $\pm$ 5.78
caprolactam	105-60-2	99.9	271.1.6P	999 $\pm$ 5.82

513057
↓
513061 } AC
1/16/25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Resolution Consultants
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: Eleanor Vivadan
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT NO.: 60731872 LOCATION: Bethpage, NY
PROJECT MANAGER: Eleanor Vivadan
e-mail: Eleanor.Vivadan@aecon.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor Vivadan 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. VOCs 8260
2. 1,4 dioxane 82705M
3. 4. 5. 6. 7. 8. 9.

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		A	F								
1.	MW3051-20250908	GW		X	9/8	1505	3	2	1								
2.	MW179D-20250908	GW		X	9/8	1538	3	2	1								
3.	MW201D-20250908	GW		X	9/8	1600	3	2	1								
4.	MW179D1-20250908	GW		X	9/8	1630	3	2	1								
5.	MW203D2-20250909	GW		X	9/9	1020	3	2	1								ms/msd
6.	MW203D1-20250909	GW		X	9/9	1030	3	2	1								
7.	MW179D2-20250909	GW		X		1012	3	2	1								
8.	MW201D1-20250909	GW		X		1045	3	2	1								
9.	RE122D1-20250909	GW		X		1300	3	2	1								
10.	MW202D-20250909	GW		X		1112	3	2	1								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <u>Moni Acrok</u>	DATE/TIME: <u>1320</u> <u>8/12/15</u>	RECEIVED BY: 1. <u>[Signature]</u>	DATE/TIME: <u>1320</u> <u>9-12-25</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>3.0</u> °C
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.		Comments:
RELINQUISHED BY SAMPLER: 3.	DATE/TIME: <u>1720</u> <u>9-12-25</u>	RECEIVED BY: 3.		

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Resolution Consultants

ADDRESS:

CITY: STATE: ZIP:

ATTENTION: Eleanor Vivadan

PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: MWIRP Bethpage

PROJECT NO.: 60731872 LOCATION: Bethpage, NY

PROJECT MANAGER: Eleanor Vivadan

e-mail: Eleanor.Vivadan@aecom.com

PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor Vivadan 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	2	3	4	5	6	7	8	9

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS ← Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-OTHER
			COMP	GRAB	DATE	TIME		A	F								
1.	MW178I1-20250909	GW		X	9/9	1300	3	2	1								
2.	RE123D1-20250909	GW		X	9/9	1340	3	2	1								
3.	RE123D3-20250909	GW		X	9/9	1355	3	2	1								
4.	MW305D-20250909	GW		X	9/9	1155	3	2	1								
5.	DUP01-20250909	GW		X	9/9	1235	3	2	1								
6.	RE126D2-20250909	GW		X	9/9	1442	3	2	1								
7.	RE126D3-20250909	GW		X	9/9	1540	3	2	1								
8.	MW178S-20250910	GW		X	9/10	0847	3	2	1								
9.	RE126D1-20250910	GW		X	9/10	1010	3	2	1								
10.	MW202D1-20250910	GW		X	9/10	1010	3	2	1								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME: 1320	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 29°C
1. [Signature]	9/12/25	1. [Signature]	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME: 1720	RECEIVED BY:	
2. [Signature]	9/12/25	2. [Signature]	
RELINQUISHED BY SAMPLER:	DATE/TIME: 1720	RECEIVED BY:	
3. [Signature]	9/12/25	3. [Signature]	

Page 2 of 6

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete
☐ YES ☐ NO

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Resolution Consultants

ADDRESS:

CITY

STATE:

ZIP:

ATTENTION: Eleanor Vivadon

PHONE:

FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage

PROJECT NO.: 6073187 LOCATION: Bethpage, NY

PROJECT MANAGER: Eleanor Vivadon

e-mail: Eleanor.vivadon@aecom.com

PHONE:

FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor Vivadon

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	2	3	4	5	6	7	8	9
VOCs 8260	1,4-dioxane	8270 SIM						

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS		
			COMP	GRAB	DATE	TIME		A	F									← Specify Preservatives	
								1	2	3	4	5	6	7	8	9	A-HCl B-HNO3 C-H2SO4	D-NaOH E-ICE F-OTHER	
1.	RE104D2-20250910	GW		X	9/10	1045	3	2	1										
2.	MW178I-20250910	GW		X	9/10	1052	3	2	1										
3.	DUP02-20250910	GW		X	9/10	1315	3	2	1										
4.	DUP03-20250910	GW		X	9/10	1035	3	2	1										
5.	RE-H ^{MA} RE117D1-20250910	GW		X	9/10	1300	3	2	1										
6.	RE104D3-20250910	GW		X	9/10	1305	3	2	1										
7.	RE122D2-20250910	GW		X	9/10	1315	3	2	1										
8.	RE104D1-20250910	GW		X	9/10	1115	3	2	1										
9.	TT180D-20250911	GW		X	9/11	0940	3	2	1										
10.	RE122D3-20250911	GW		X	9/11	1010	3	2	1										

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:

DATE/TIME: 1:320

RECEIVED BY:

1. Morris Acheek

9/12/25

1. [Signature]

RELINQUISHED BY SAMPLER:

DATE/TIME:

RECEIVED BY:

RELINQUISHED BY SAMPLER:

DATE/TIME: 1:20

RECEIVED BY:

3. [Signature]

9-12-25

3. [Signature]

Conditions of bottles or coolers at receipt:

☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP

2.1 °C

Comments:

Page 3 of 6

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete

☐ YES ☐ NO

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.: 60731872 LOCATION: Bethpage, NY
PROJECT MANAGER: Eleanor Vivadon
e-mail: Eleanor.Vivadon@resolution.com
PHONE: FAX:

BILL TO: Eleanor Vivadon 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 dia 8275 S1

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		A	F									
								1	2	3	4	5	6	7	8	9		
1.	RE103D2 - 20250911	GW		X	9/11	0957	9	6	3									ms / msd
2.	RE125D1 - 20250911	GW		X	9/11	1055	3	2	1									
3.	RE125D3 - 20250911	GW		X	9/11	1125	3	2	1									
4.	RE103D3 - 20250911	GW		X	9/11	1112	3	2	1									
5.	RE108D2 - 20250911	GW		X	9/11	1155 ^{ms}	3	2	1									
6.	RE125D2 - 20250911	GW		X	9/11	1245	3	2	1									
7.	RE108D1 - 20250911	GW		X	9/11	1255	3	2	1									
8.	RE120D3 - 20250911	GW		X	9/11	1420	3	2	1									
9.	RE105D1 - 20250911	GW		X	9/11	1535	3	2	1									
10.	DUP04 - 20250911	GW		X	9/11	1635	3	2	1									

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. Mono Achele	DATE/TIME: 1320 09/12/25	RECEIVED BY: [Signature]	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.8 °C
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY:	Comments:
RELINQUISHED BY SAMPLER: 3. [Signature]	DATE/TIME: 1728 9-12-25	RECEIVED BY: 3.	Page 4 of 6

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete
☐ YES ☐ NO

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Resolution Consultants
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: Eleanor Vivadan
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NMARP Bethpage
PROJECT NO.: 60731872 LOCATION: Bethpage, NY
PROJECT MANAGER: Eleanor Vivadan
e-mail: eleanor.vivadan@ae.com, com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor Vivadan 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. VOCs 8260
2. 1,4 dioxane 8270-517

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS		
			COMP	GRAB	DATE	TIME		A	F									← Specify Preservatives A-HCl B-HNO3 C-H2SO4	D-NaOH E-ICE F-OTHER
1.	DUP05 - 20250911	GW		X	9/11	1105	3	2	1										
2.	RE10SD2 - 20250911	GW		X	9/11	1625	3	2	1										
3.	RE117D2 - 20250911	GW		X	9/11	1520	3	2	1										
4.	TB01 - 20250911	Aq			9/11	N/A	2	2										QA/QC TDS	
5.	TB02 - 20250911	Aq			9/11	N/A	2	2										QA/QC TDS	
6.	TB03 - 20250911	Aq			9/11	N/A	2	2										QA/QC TDS	
7.	TB04 - 20250911	Aq			9/11	N/A	2	2										QA/QC TDS	
8.	TB05 - 20250912	Aq			9/12	N/A	2	2											
9.	RE120D1 - 20250912	GW		X	9/12	0952	3	2	1										
10.	DUP06 - 20250912	GW		X	9/12	1140	3	2	1										

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. Mono Achek	DATE/TIME: 1320 9/12/25	RECEIVED BY: 1. [Signature] 1320 9-12-25	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1 °C
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.	Comments:
RELINQUISHED BY SAMPLER: 3.	DATE/TIME: 1720 9-12-25	RECEIVED BY: 3.	Page 5 of 6

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete
☐ YES ☐ NO

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Resolution Consultants

ADDRESS:

CITY: STATE: ZIP:

ATTENTION: Eleanor Vivadan

PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: MWIRP Bethpage

PROJECT NO.: 60731872 LOCATION: Bethpage

PROJECT MANAGER: Eleanor Vivadan

e-mail: elenr.vivadan@rcm.com

PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor Vivadan PO#:

ADDRESS: 27 Ellis Place

CITY Ossining STATE: NY ZIP: 10566

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

VOCs 8260
14 others 8270/517

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		A	F								
1.	RE120DL-20250912	6W		X	9/12	0955	3	2	1								
2.	RE134D1-20250912	6W		X	9/12	0955	3	2	1								
3.	RE134D4-20250912	6W		X	9/12	1010	3	2	1								
4.	RE134D2-20250912	6W		X	9/12	0950	3	2	1								
5.	RE134D3-20250912	6W		X	9/12	1030	3	2	1								
6.	EB01-20250912	6W ^{A9}		X	9/12	0822	3	2	1								Equipment Blank
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME: 1320	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP: 3.16 °C
1. Mario Aciole	9/12-25	1. [Signature]	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2.		2. [Signature]	
RELINQUISHED BY SAMPLER:	DATE/TIME: 1720	RECEIVED BY:	
3. [Signature]	9-12-25	3. [Signature]	

Page 6 of 6

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete

☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3095	AECO15	Order Date : 9/12/2025 12:38:00 PM	Project Mgr : Yazmeen
Client Name : AECOM Technical Services		Project Name : NAVFAC NWIRP Bethpage	Report Type : ~~Results Only~~ NYS ASP B
Client Contact : Eleanor Vivadou		Receive DateTime : 9/12/2025 5:20:00 PM	EDD Type : EQUIS
Invoice Name : AECOM Technical Services		Purchase Order :	Hard Copy Date :
Invoice Contact : Eleanor Vivadou			Date Signoff : 9/15/2025 10:00:04 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3095-01	MW3051-20250908 3051 <i>du</i>	Water	09/08/2025	15:05		VOCMS Group1	8260-Low 10 Bus. Days		
Q3095-02	MW179D-20250908	Water	09/08/2025	15:38		VOCMS Group1	8260-Low 10 Bus. Days		
Q3095-03	MW201D-20250908	Water	09/08/2025	16:00		VOCMS Group1	8260-Low 10 Bus. Days		
Q3095-04	MW179D1-20250908	Water	09/08/2025	16:30		VOCMS Group1	8260-Low 10 Bus. Days		
Q3095-05	MW203D2-20250909	Water	09/09/2025	10:20		VOCMS Group1	8260-Low 10 Bus. Days		
Q3095-06	Q3095-05MS	Water	09/09/2025	10:20		VOCMS Group1	8260-Low 10 Bus. Days		
Q3095-07	Q3095-05MSD	Water	09/09/2025	10:20		VOCMS Group1	8260-Low 10 Bus. Days		
Q3095-08	MW203D1-20250909	Water	09/09/2025	10:30					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3095	AECO15	Order Date : 9/12/2025 12:38:00 PM	Project Mgr : Yazmeen
Client Name : AECOM Technical Services		Project Name : NAVFAC NWIRP Bethpage	Report Type : ~~Results Only~~ NYS ASP B
Client Contact : Eleanor Vivadou		Receive DateTime : 9/12/2025 5:20:00 PM	EDD Type : EQUIS
Invoice Name : AECOM Technical Services		Purchase Order :	Hard Copy Date :
Invoice Contact : Eleanor Vivadou			Date Signoff : 9/15/2025 10:00:04 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3095-09	MW179D2-20250909	Water	09/09/2025	10:12	VOCMS Group1		8260-Low	10 Bus. Days	
Q3095-10	MW201D1-20250909	Water	09/09/2025	10:45	VOCMS Group1		8260-Low	10 Bus. Days	
Q3095-11	RE122D1-20250909	Water	09/09/2025	13:00	VOCMS Group1		8260-Low	10 Bus. Days	
Q3095-12	MW202D-20250909	Water	09/09/2025	11:12	VOCMS Group1		8260-Low	10 Bus. Days	
Q3095-13	MW178I1-20250909	Water	09/09/2025	13:00	VOCMS Group1		8260-Low	10 Bus. Days	
Q3095-14	RE123D1-20250909	Water	09/09/2025	13:40	VOCMS Group1		8260-Low	10 Bus. Days	
Q3095-15	RE123D3-20250909	Water	09/09/2025	13:55	VOCMS Group1		8260-Low	10 Bus. Days	

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3095	AECO15	Order Date : 9/12/2025 12:38:00 PM	Project Mgr : Yazmeen
Client Name : AECOM Technical Services		Project Name : NAVFAC NWIRP Bethpage	Report Type : ~~Results Only~~ NYS ASP B
Client Contact : Eleanor Vivadou		Receive DateTime : 9/12/2025 5:20:00 PM	EDD Type : EQUIS
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Invoice Contact : Eleanor Vivadou			Date Signoff : 9/15/2025 10:00:04 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3095-16	MW305D-20250909	Water	09/09/2025	11:55					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3095-17	DUP01-20250909	Water	09/09/2025	12:35					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3095-18	RE126D2-20250909	Water	09/09/2025	14:42					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3095-19	RE126D3-20250909	Water	09/09/2025	15:40					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3095-20	MW178S-20250910	Water	09/10/2025	09:47					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3095-21	RE126D1-20250910	Water	09/10/2025	10:10					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3095-22	MW202D1-20250910	Water	09/10/2025	10:10					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3095-23	RE104D2-20250910	Water	09/10/2025	10:45					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3095	AECO15	Order Date : 9/12/2025 12:38:00 PM	Project Mgr : Yazmeen
Client Name : AECOM Technical Services		Project Name : NAVFAC NWIRP Bethpage	Report Type : ~~Results Only~~ NYS ASP B
Client Contact : Eleanor Vivadou		Receive DateTime : 9/12/2025 5:20:00 PM	EDD Type : EQUIS
Invoice Name : AECOM Technical Services		Purchase Order :	Hard Copy Date :
Invoice Contact : Eleanor Vivadou			Date Signoff : 9/15/2025 10:00:04 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3095-24	MW178I-20250910	Water	09/10/2025	10:52	VOCMS Group1		8260-Low	10 Bus. Days	
Q3095-25	DUP02-20250910	Water	09/10/2025	13:15	VOCMS Group1		8260-Low	10 Bus. Days	
Q3095-26	~~DUP0-20250910~~ DUP03-20250910	Water	09/10/2025	10:35	VOCMS Group1		8260-Low	10 Bus. Days	
Q3095-27	RE117D1-20250910	Water	09/10/2025	13:00	VOCMS Group1		8260-Low	10 Bus. Days	
Q3095-28	RE104D3-20250910	Water	09/10/2025	13:05	VOCMS Group1		8260-Low	10 Bus. Days	
Q3095-29	RE122D2-20250910	Water	09/10/2025	13:15	VOCMS Group1		8260-Low	10 Bus. Days	
Q3095-30	RE104D1-20250910	Water	09/10/2025	11:15	VOCMS Group1		8260-Low	10 Bus. Days	

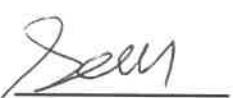
LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3095	AECO15	Order Date : 9/12/2025 12:38:00 PM	Project Mgr : Yazmeen
Client Name : AECOM Technical Services		Project Name : NAVFAC NWIRP Bethpage	Report Type : ~~Results Only~~ NYS ASP B
Client Contact : Eleanor Vivadou		Receive Date/Time : 9/12/2025 5:20:00 PM	EDD Type : EQUIS
Invoice Name : AECOM Technical Services		Purchase Order :	Hard Copy Date :
Invoice Contact : Eleanor Vivadou			Date Signoff : 9/15/2025 10:00:04 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3095-31	TT180D-20250911	Water	09/11/2025	09:40					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3095-32	RE122D3-20250911	Water	09/11/2025	10:10					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3095-33	TB01-20250911	Water	09/11/2025	00:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3095-34	TB02-20250911	Water	09/11/2025	00:00					
					VOCMS Group1		8260-Low	10 Bus. Days	

Relinquished By : 

Date / Time : 9/15/25 1250

Received By : 

Date / Time : 09/15/25

Storage Area : VOA Refridgerator Room

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
 Data File : BN037692.D
 Acq On : 11 Sep 2025 10:32
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Sep 11 14:05:36 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:02:44 2025
 Response via : Initial Calibration

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

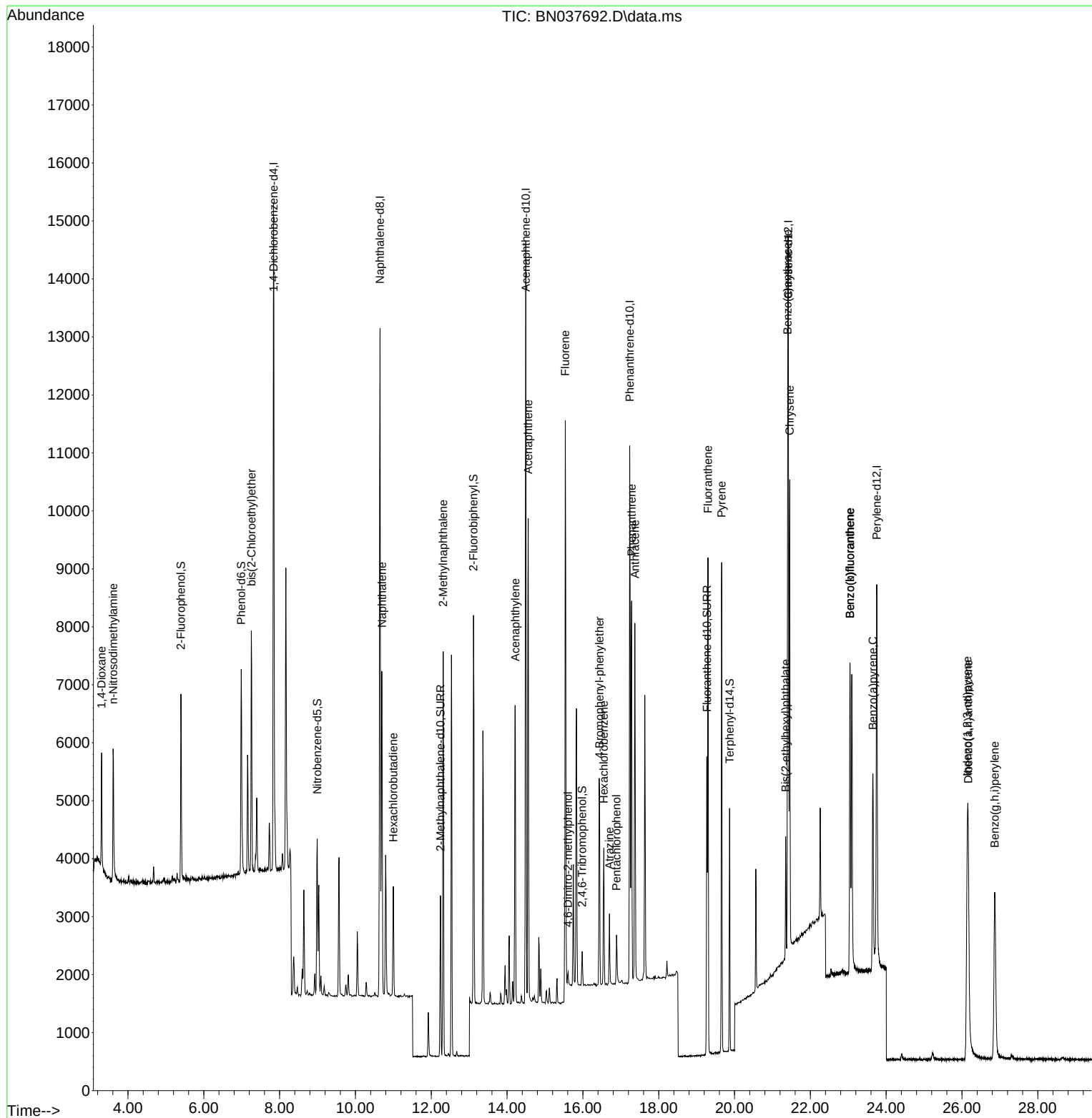
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	5547	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	15018	0.400	ng	0.00
13) Acenaphthene-d10	14.494	164	6952	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	12385	0.400	ng	0.00
29) Chrysene-d12	21.420	240	9324	0.400	ng	0.00
35) Perylene-d12	23.753	264	9364	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2533	0.199	ng	0.00
5) Phenol-d6	6.988	99	3308	0.200	ng	0.00
8) Nitrobenzene-d5	8.993	82	2098	0.191	ng	0.00
11) 2-Methylnaphthalene-d10	12.243	152	3732	0.188	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	340	0.188	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	5791	0.199	ng	0.00
27) Fluoranthene-d10	19.271	212	5492	0.177	ng	0.00
31) Terphenyl-d14	19.870	244	3884	0.205	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.304	88	1189	0.206	ng	99
3) n-Nitrosodimethylamine	3.608	42	1470	0.195	ng	# 93
6) bis(2-Chloroethyl)ether	7.255	93	2982	0.202	ng	100
9) Naphthalene	10.701	128	8051	0.196	ng	99
10) Hexachlorobutadiene	11.000	225	1472	0.198	ng	# 100
12) 2-Methylnaphthalene	12.314	142	4889	0.193	ng	100
16) Acenaphthylene	14.216	152	6105	0.191	ng	98
17) Acenaphthene	14.559	154	4168	0.193	ng	98
18) Fluorene	15.535	166	4875	0.187	ng	97
20) 4,6-Dinitro-2-methylph...	15.609	198	201	0.175	ng	# 58
21) 4-Bromophenyl-phenylether	16.441	248	1560	0.193	ng	97
22) Hexachlorobenzene	16.553	284	1906	0.205	ng	99
23) Atrazine	16.702	200	932	0.181	ng	96
24) Pentachlorophenol	16.888	266	461	0.171	ng	98
25) Phenanthrene	17.285	178	7526	0.193	ng	98
26) Anthracene	17.372	178	6375	0.185	ng	99
28) Fluoranthene	19.299	202	7577	0.177	ng	100
30) Pyrene	19.661	202	7543	0.207	ng	99
32) Benzo(a)anthracene	21.402	228	6270	0.193	ng	99
33) Chrysene	21.456	228	6953	0.199	ng	98
34) Bis(2-ethylhexyl)phtha...	21.348	149	2049	0.213	ng	# 97
36) Indeno(1,2,3-cd)pyrene	26.142	276	6982	0.177	ng	99
37) Benzo(b)fluoranthene	23.046	252	6907	0.187	ng	# 93
38) Benzo(k)fluoranthene	23.046	252	6907	0.184	ng	94
39) Benzo(a)pyrene	23.651	252	5489	0.186	ng	# 92
40) Dibenzo(a,h)anthracene	26.165	278	5503	0.175	ng	# 90
41) Benzo(g,h,i)perylene	26.864	276	6566	0.186	ng	95

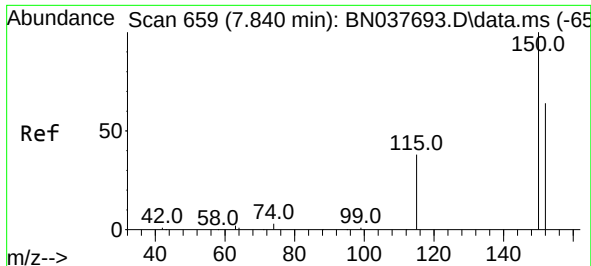
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037692.D
Acq On : 11 Sep 2025 10:32
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

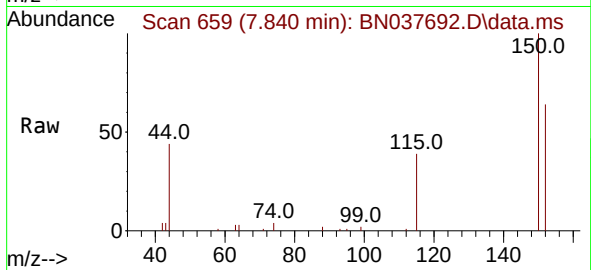
Quant Time: Sep 11 14:05:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration



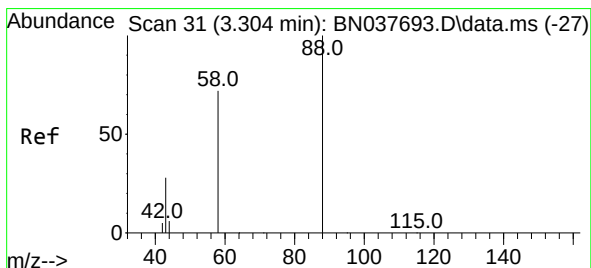
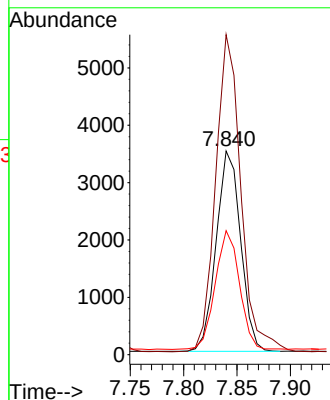
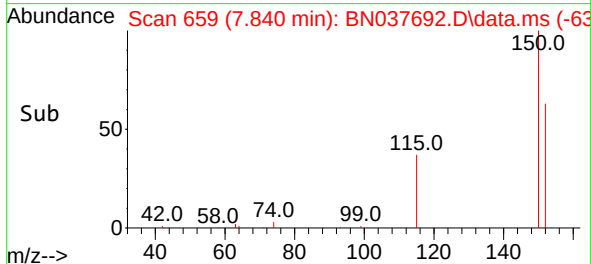


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.840 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN037692.D
 Acq: 11 Sep 2025 10:32

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

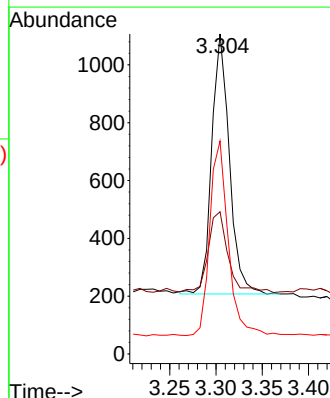
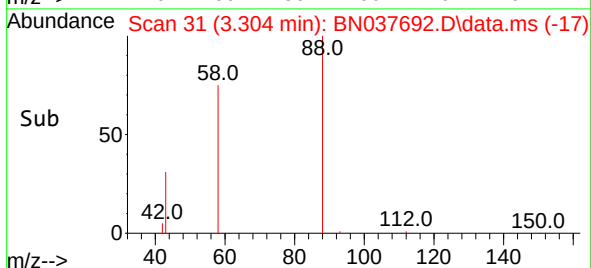
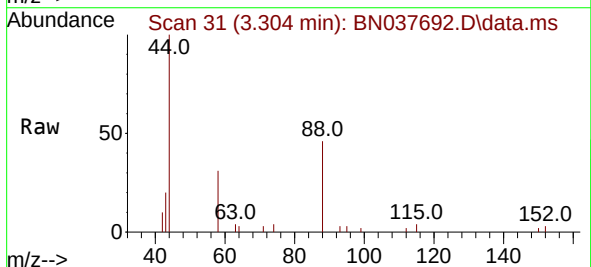


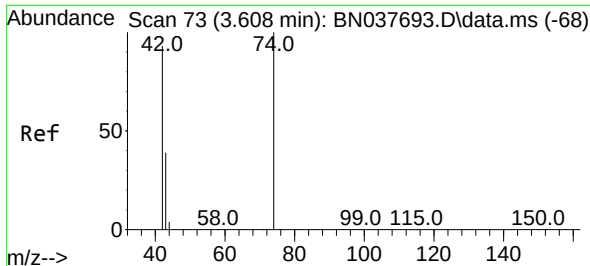
Tgt Ion:152 Resp: 5547
 Ion Ratio Lower Upper
 152 100
 150 157.2 124.5 186.7
 115 60.9 49.2 73.8



#2
 1,4-Dioxane
 Concen: 0.206 ng
 RT: 3.304 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: BN037692.D
 Acq: 11 Sep 2025 10:32

Tgt Ion: 88 Resp: 1189
 Ion Ratio Lower Upper
 88 100
 43 34.1 26.8 40.2
 58 78.4 61.9 92.9

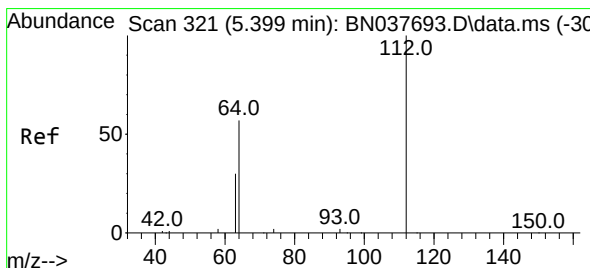
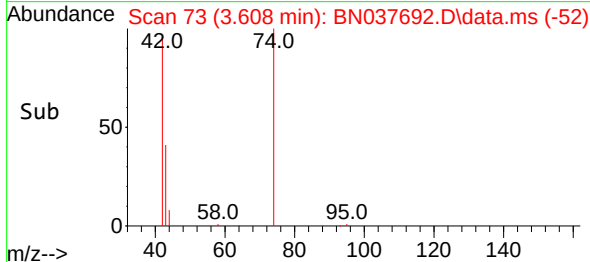
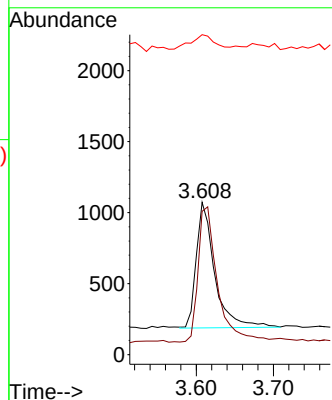
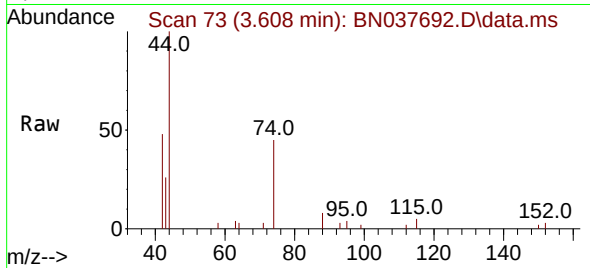




#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.608 min Scan# 73
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

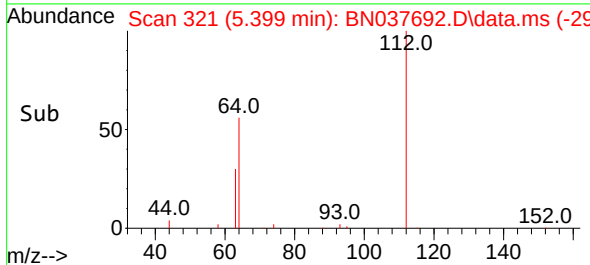
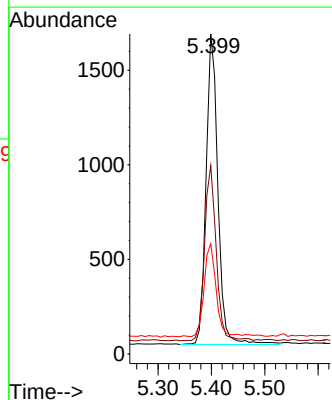
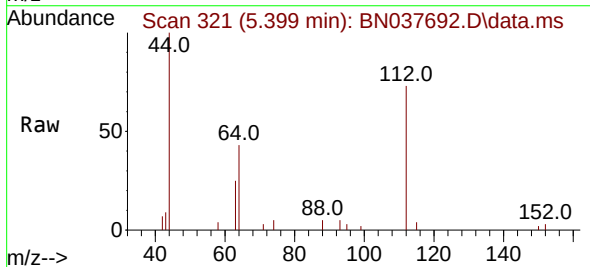
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

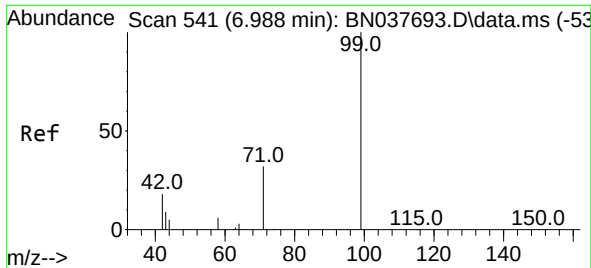
Tgt Ion: 42 Resp: 1470
Ion Ratio Lower Upper
42 100
74 113.6 86.0 129.0
44 16.2 8.4 12.6#



#4
2-Fluorophenol
Concen: 0.199 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

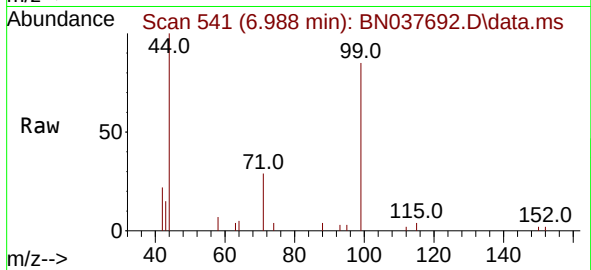
Tgt Ion: 112 Resp: 2533
Ion Ratio Lower Upper
112 100
64 55.5 44.9 67.3
63 30.4 24.7 37.1



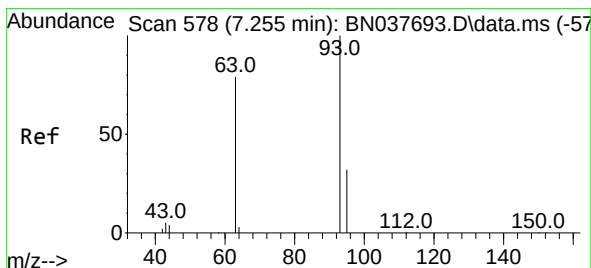
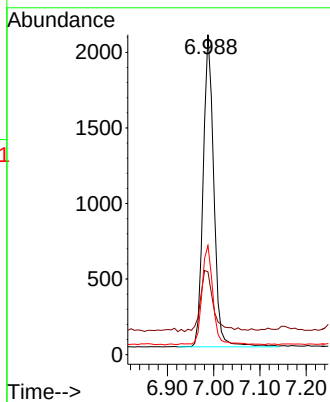
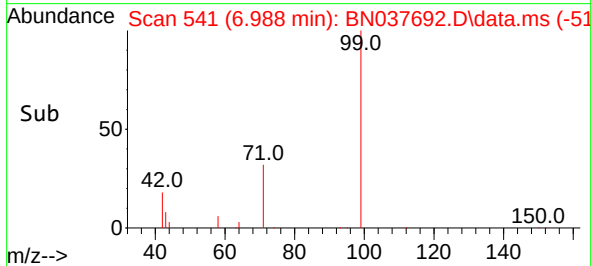


#5
Phenol-d6
Concen: 0.200 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

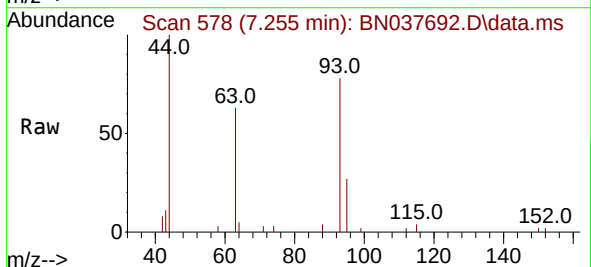
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



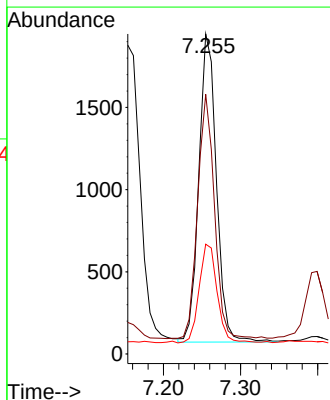
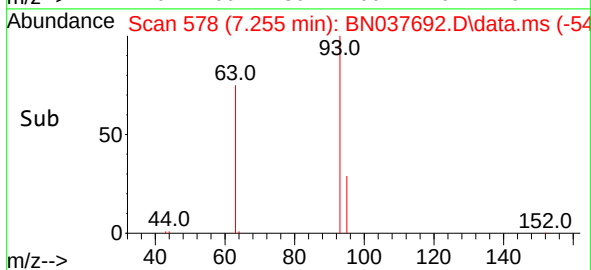
Tgt Ion: 99 Resp: 3308
Ion Ratio Lower Upper
99 100
42 24.3 16.6 24.8
71 32.8 26.7 40.1

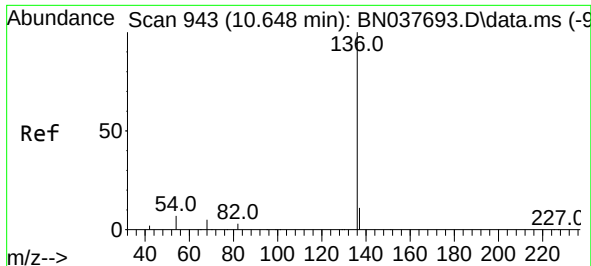


#6
bis(2-Chloroethyl)ether
Concen: 0.202 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32



Tgt Ion: 93 Resp: 2982
Ion Ratio Lower Upper
93 100
63 75.7 60.6 90.8
95 32.5 26.0 39.0

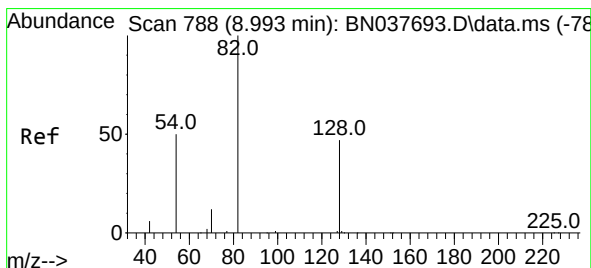
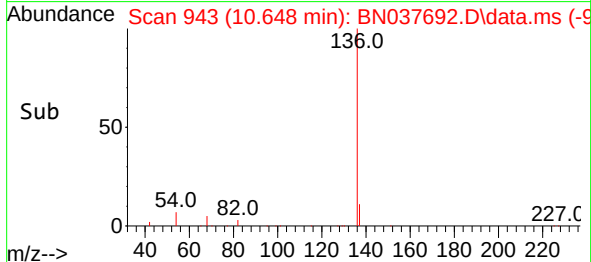
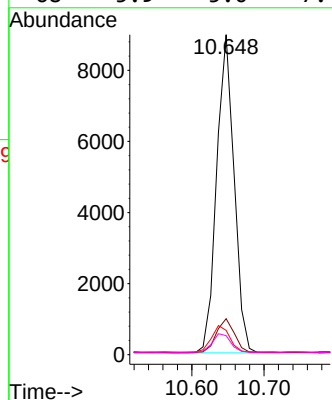
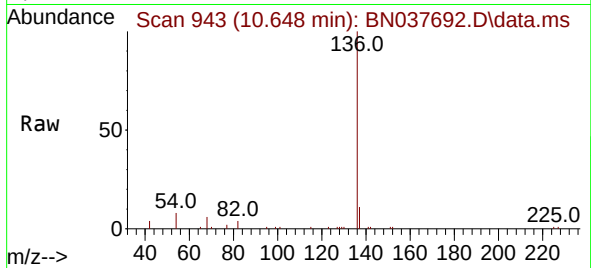




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

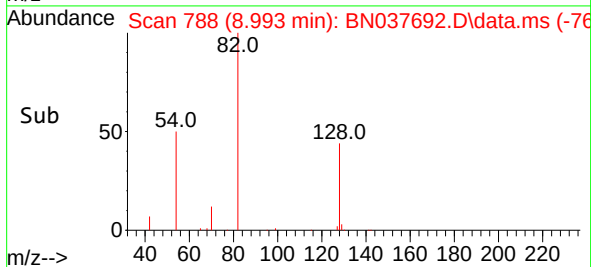
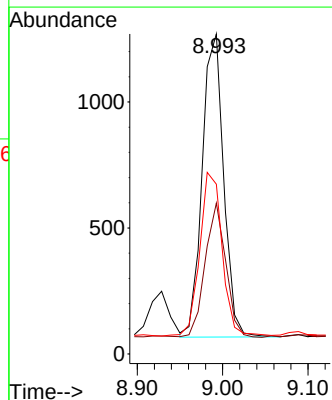
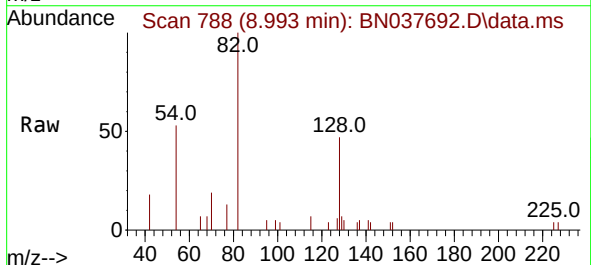
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

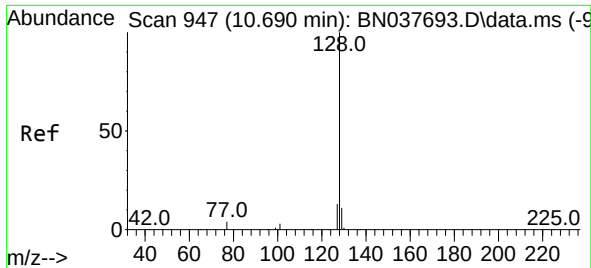
Tgt Ion:	136	Resp:	15018
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.1	13.7
54	7.6	6.3	9.5
68	5.9	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.191 ng
RT: 8.993 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:	82	Resp:	2098
Ion Ratio	Lower	Upper	
82	100		
128	47.2	38.3	57.5
54	53.1	41.4	62.2

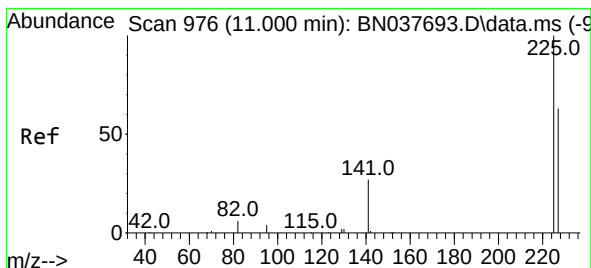
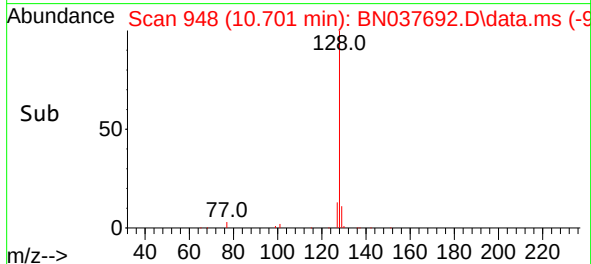
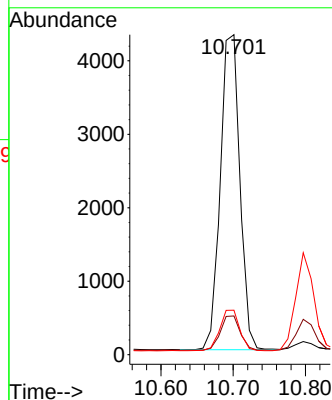
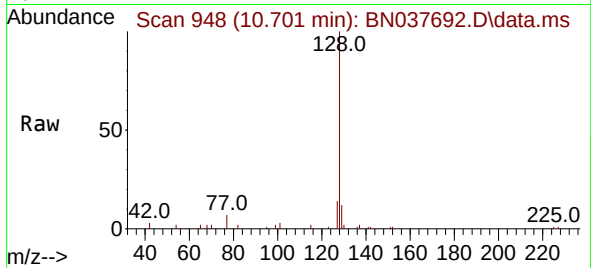




#9
Naphthalene
Concen: 0.196 ng
RT: 10.701 min Scan# 948
Delta R.T. 0.011 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

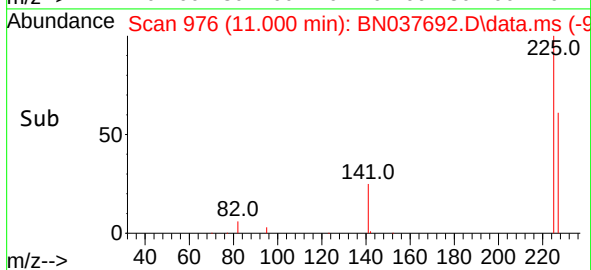
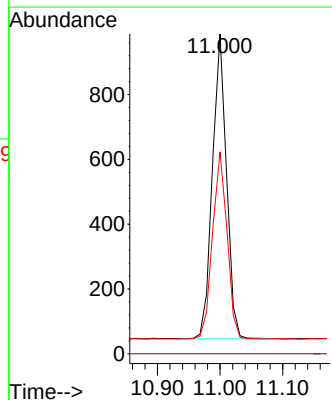
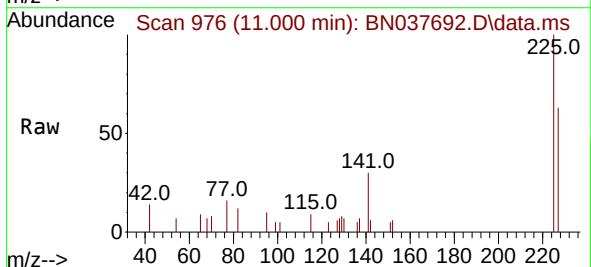
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

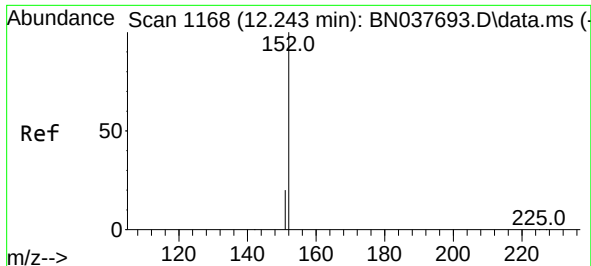
Tgt Ion:128 Resp: 8051
Ion Ratio Lower Upper
128 100
129 12.1 9.1 13.7
127 13.9 10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.198 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:225 Resp: 1472
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.2 50.9 76.3

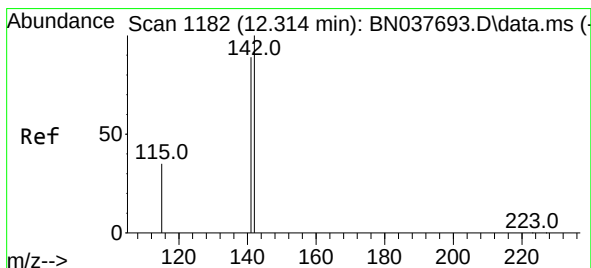
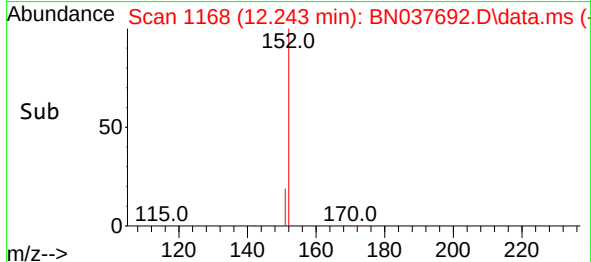
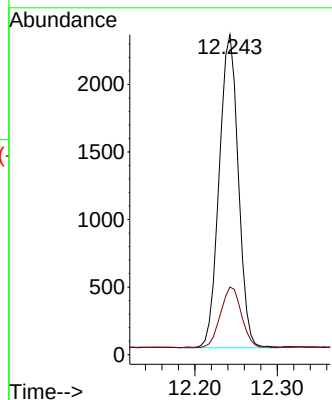
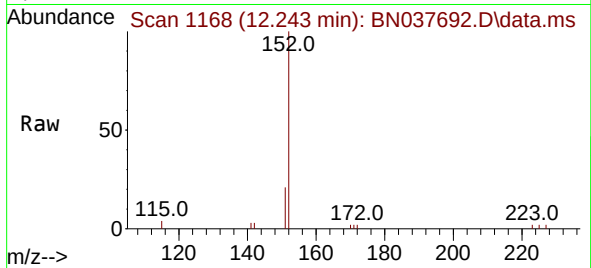




#11
2-Methylnaphthalene-d10
Concen: 0.188 ng
RT: 12.243 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

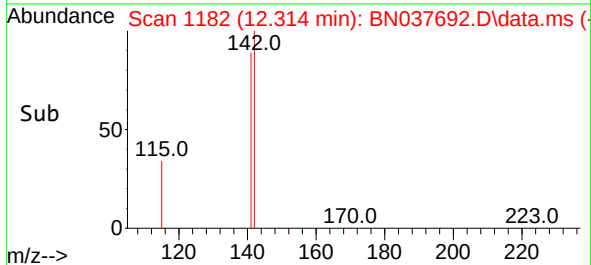
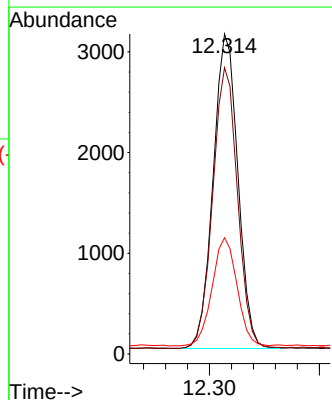
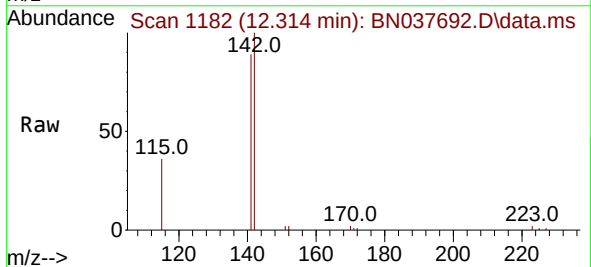
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

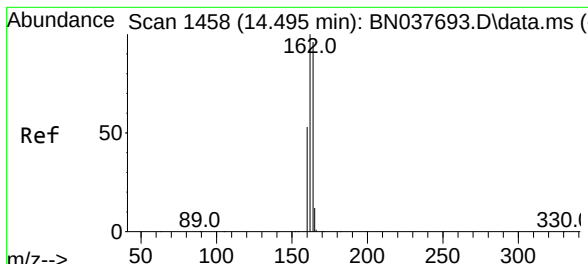
Tgt Ion:152 Resp: 3732
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.193 ng
RT: 12.314 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:142 Resp: 4889
Ion Ratio Lower Upper
142 100
141 89.5 71.6 107.4
115 36.3 28.6 43.0

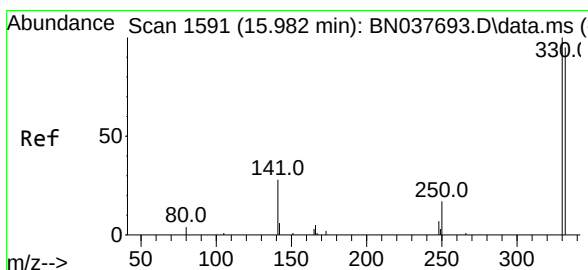
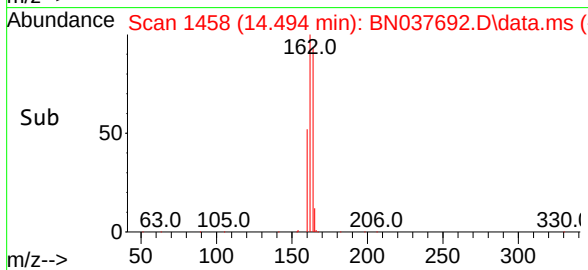
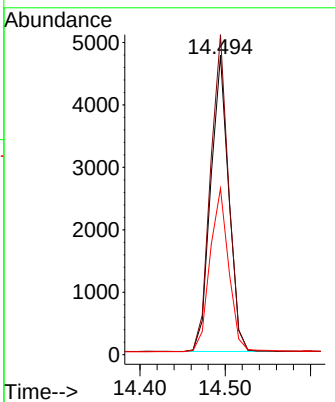
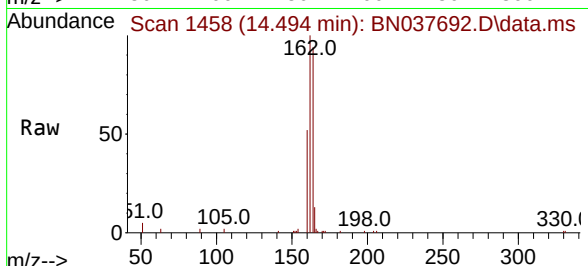




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.494 min Scan# 1458
 Delta R.T. -0.000 min
 Lab File: BN037692.D
 Acq: 11 Sep 2025 10:32

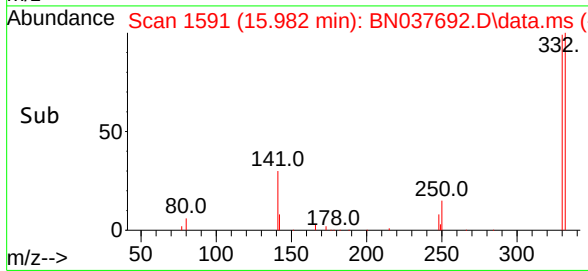
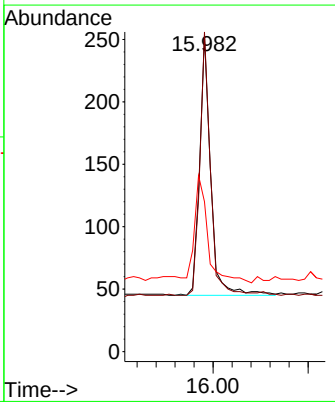
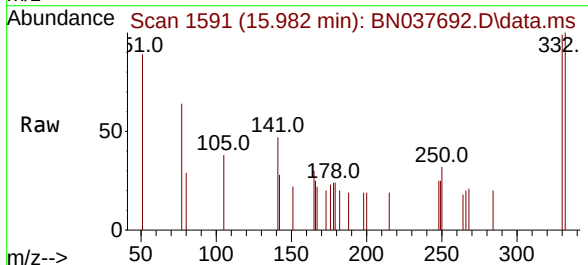
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

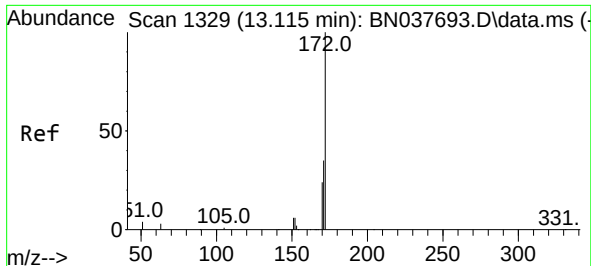
Tgt Ion:	164	Resp:	6952
Ion Ratio	Lower	Upper	
164	100		
162	106.9	83.1	124.7
160	55.5	44.3	66.5



#14
 2,4,6-Tribromophenol
 Concen: 0.188 ng
 RT: 15.982 min Scan# 1591
 Delta R.T. -0.000 min
 Lab File: BN037692.D
 Acq: 11 Sep 2025 10:32

Tgt Ion:	330	Resp:	340
Ion Ratio	Lower	Upper	
330	100		
332	95.6	75.3	112.9
141	49.4	35.0	52.4

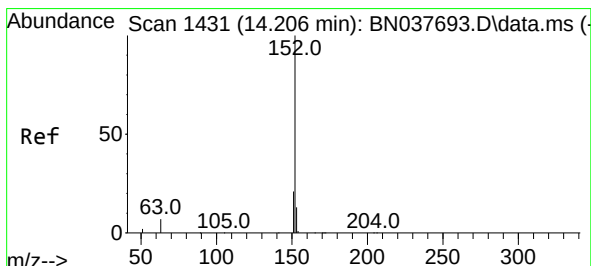
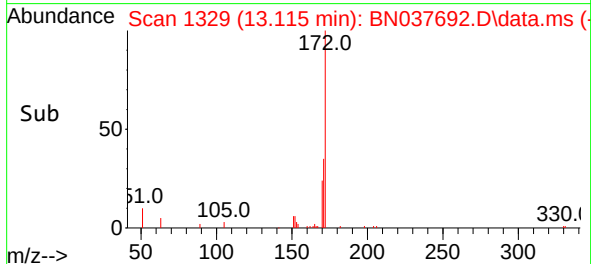
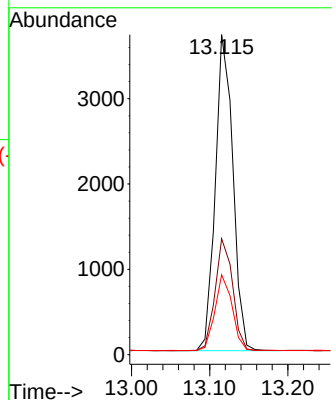
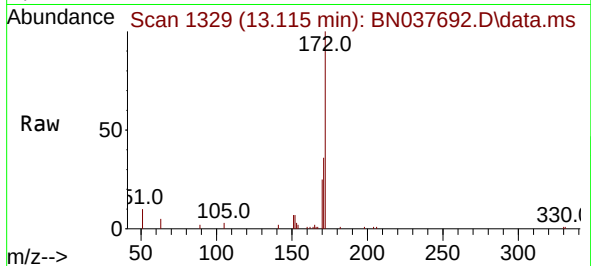




#15
2-Fluorobiphenyl
Concen: 0.199 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

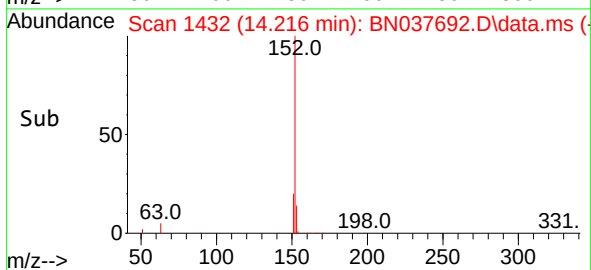
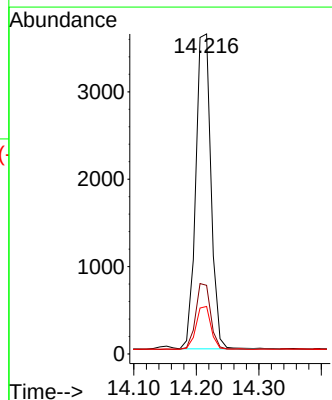
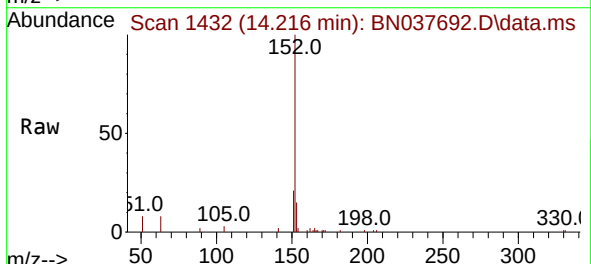
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

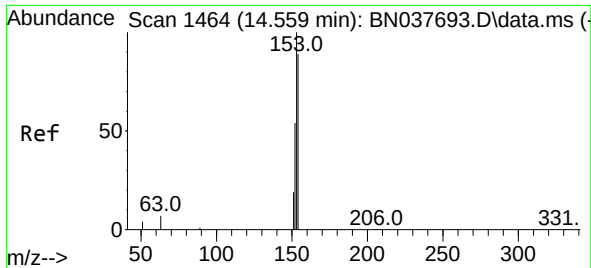
Tgt Ion:172 Resp: 5791
Ion Ratio Lower Upper
172 100
171 36.2 28.6 43.0
170 24.9 19.8 29.8



#16
Acenaphthylene
Concen: 0.191 ng
RT: 14.216 min Scan# 1432
Delta R.T. 0.011 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:152 Resp: 6105
Ion Ratio Lower Upper
152 100
151 20.8 16.2 24.2
153 13.8 10.4 15.6

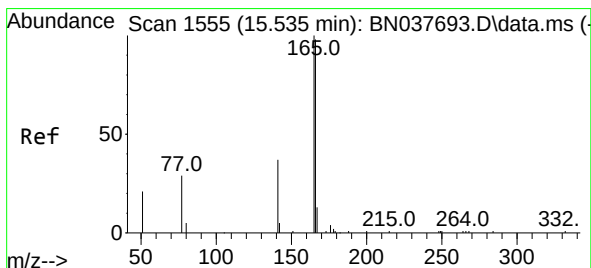
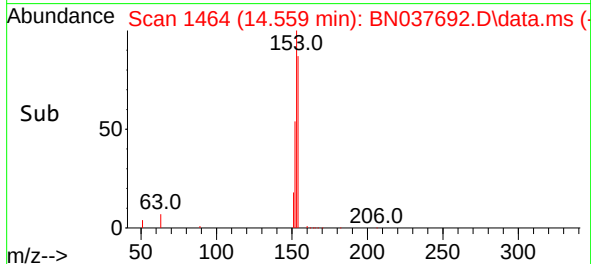
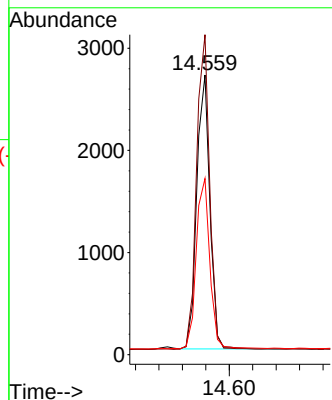
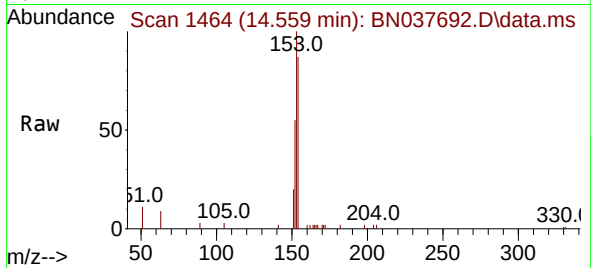




#17
Acenaphthene
Concen: 0.193 ng
RT: 14.559 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

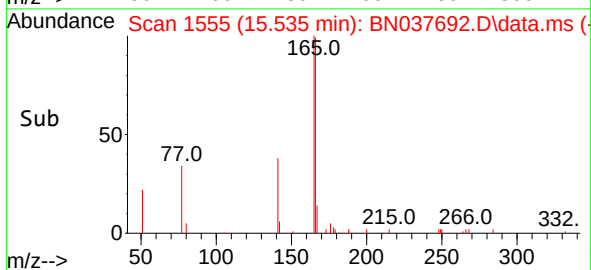
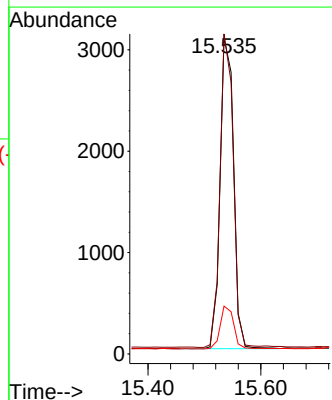
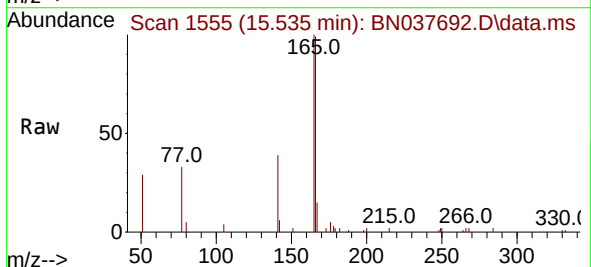
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

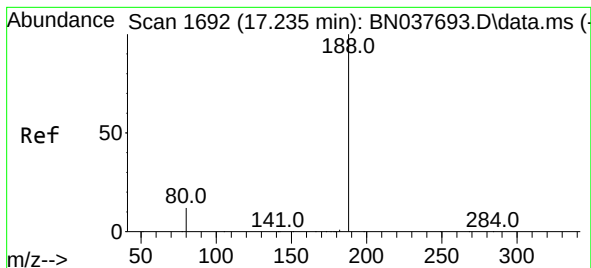
Tgt Ion:154 Resp: 4168
Ion Ratio Lower Upper
154 100
153 114.9 89.8 134.8
152 64.4 50.2 75.2



#18
Fluorene
Concen: 0.187 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:166 Resp: 4875
Ion Ratio Lower Upper
166 100
165 102.3 79.6 119.4
167 14.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

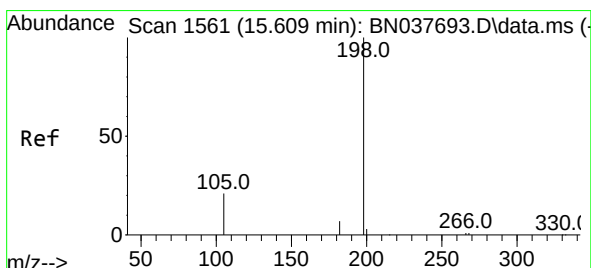
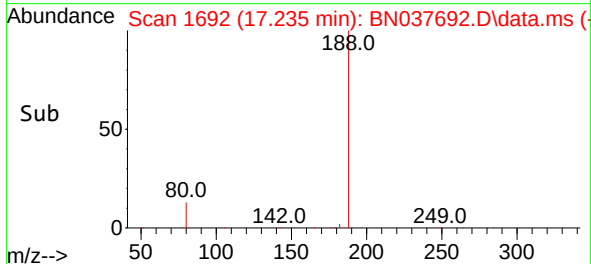
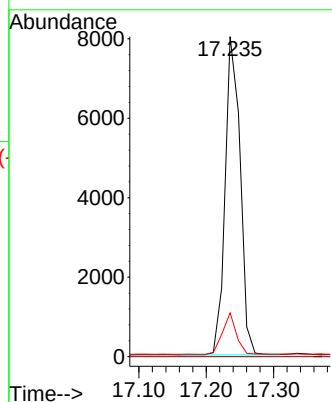
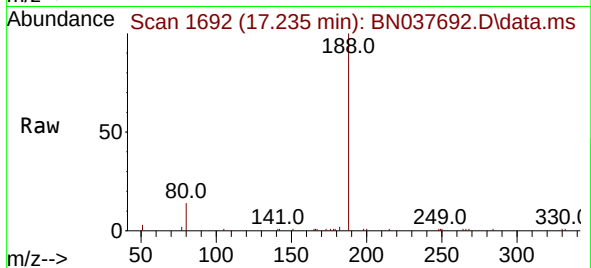
Tgt Ion:188 Resp: 12385

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.7 10.6 15.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.175 ng

RT: 15.609 min Scan# 1561

Delta R.T. 0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

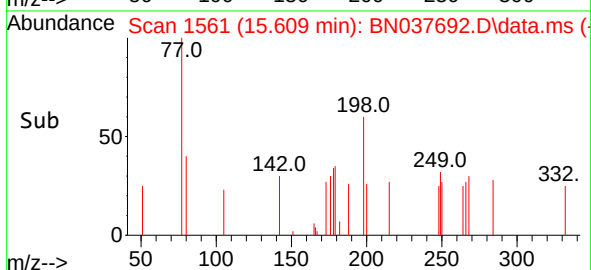
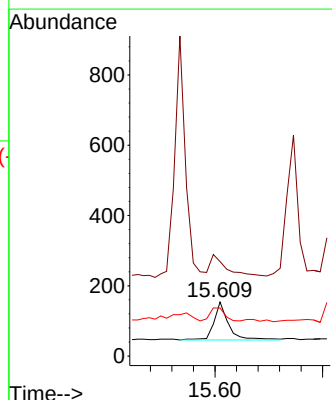
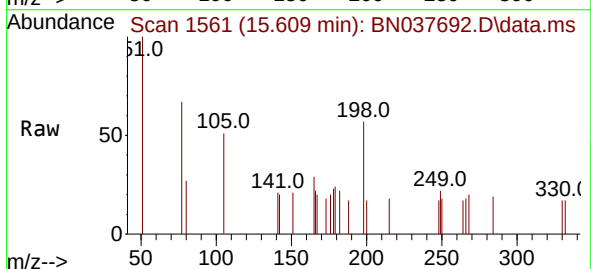
Tgt Ion:198 Resp: 201

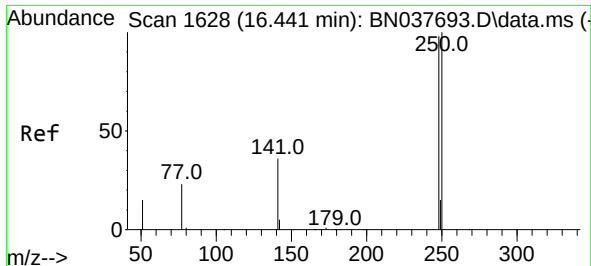
Ion Ratio Lower Upper

198 100

51 174.7 95.1 142.7#

105 89.0 53.8 80.6#

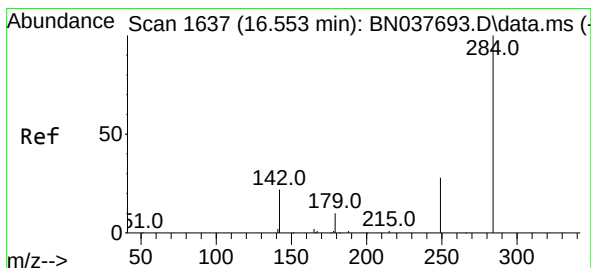
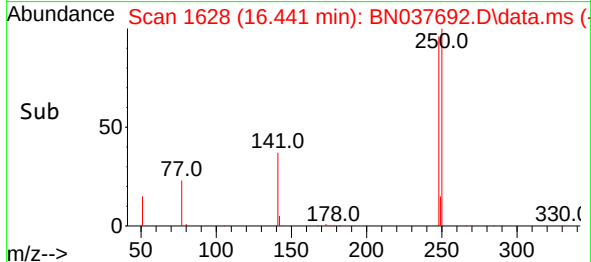
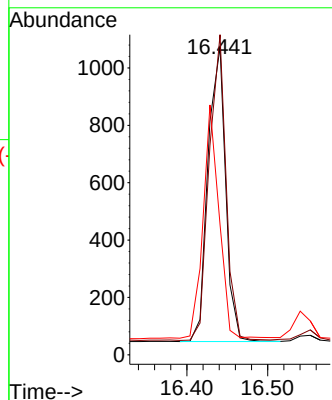
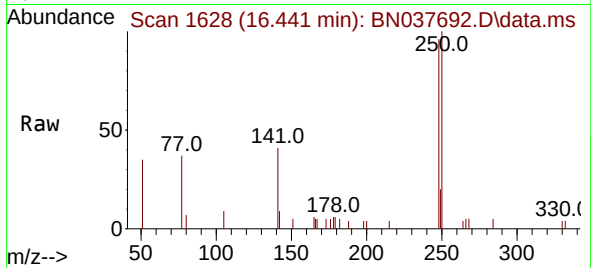




#21
4-Bromophenyl-phenylether
Concen: 0.193 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

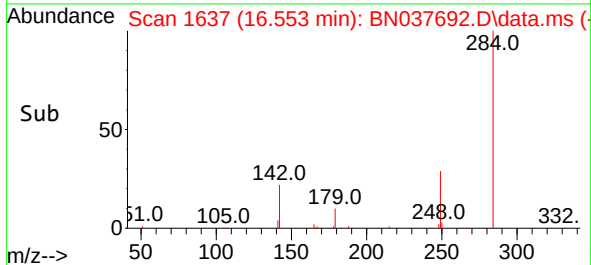
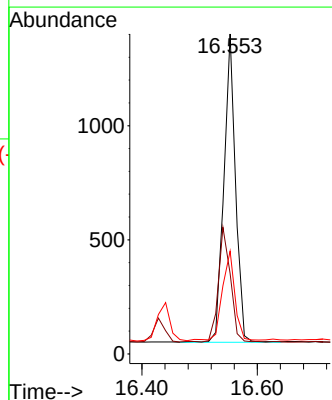
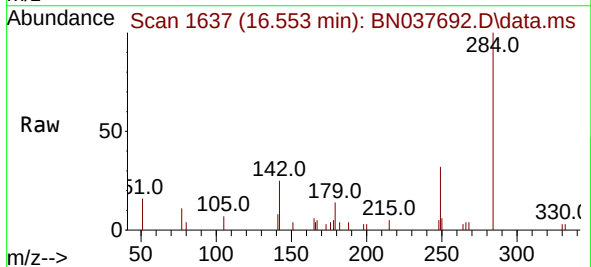
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

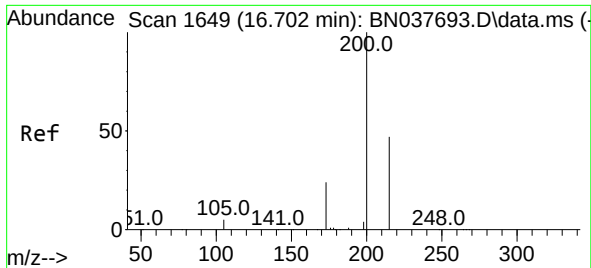
Tgt Ion:248 Resp: 1560
Ion Ratio Lower Upper
248 100
250 104.0 81.5 122.3
141 42.3 30.8 46.2



#22
Hexachlorobenzene
Concen: 0.205 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:284 Resp: 1906
Ion Ratio Lower Upper
284 100
142 38.4 30.9 46.3
249 31.4 24.8 37.2

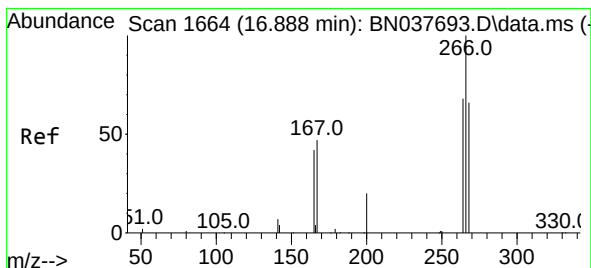
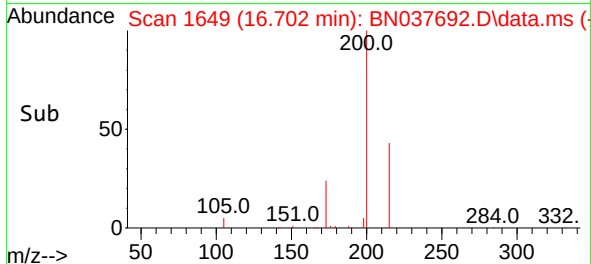
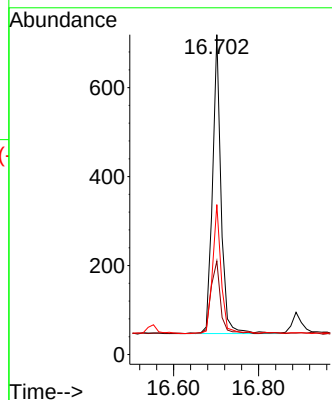
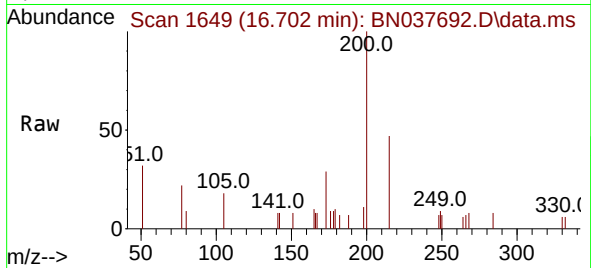




#23
 Atrazine
 Concen: 0.181 ng
 RT: 16.702 min Scan# 1649
 Delta R.T. -0.000 min
 Lab File: BN037692.D
 Acq: 11 Sep 2025 10:32

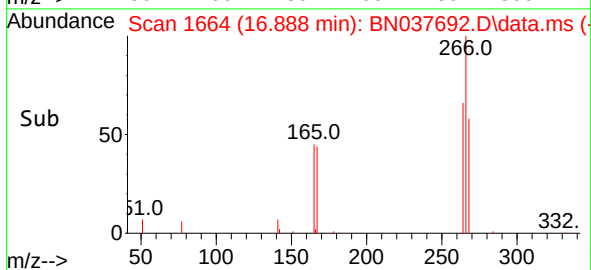
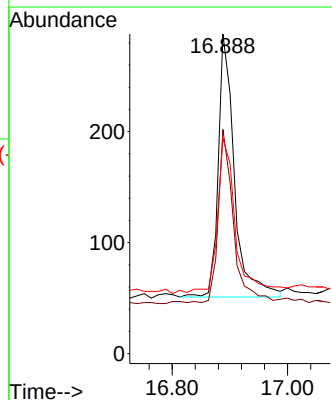
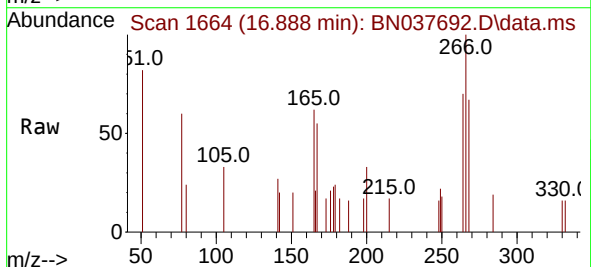
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

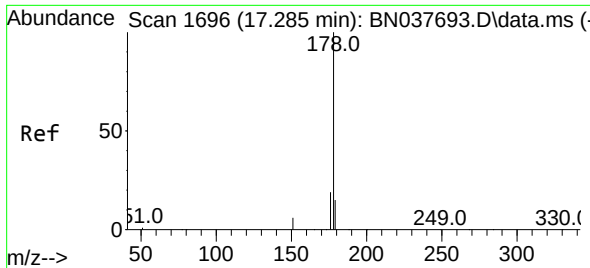
Tgt Ion:200 Resp: 932
 Ion Ratio Lower Upper
 200 100
 173 29.2 21.4 32.2
 215 46.9 39.2 58.8



#24
 Pentachlorophenol
 Concen: 0.171 ng
 RT: 16.888 min Scan# 1664
 Delta R.T. -0.000 min
 Lab File: BN037692.D
 Acq: 11 Sep 2025 10:32

Tgt Ion:266 Resp: 461
 Ion Ratio Lower Upper
 266 100
 264 61.6 51.6 77.4
 268 67.5 53.2 79.8

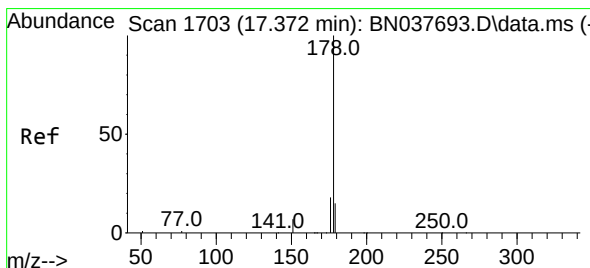
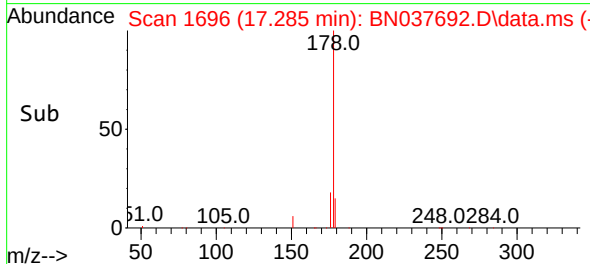
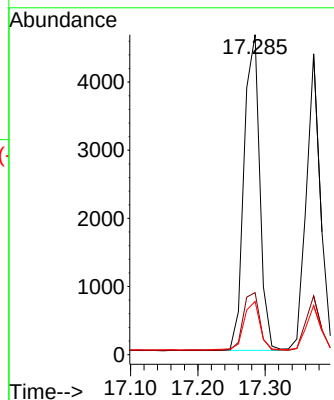
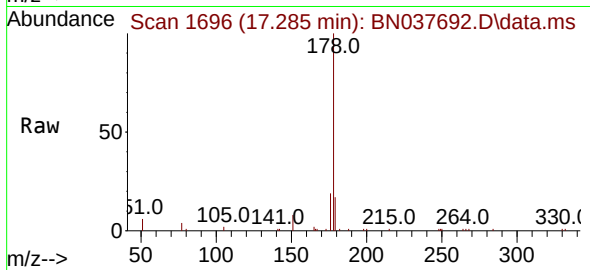




#25
Phenanthrene
Concen: 0.193 ng
RT: 17.285 min Scan# 1696
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

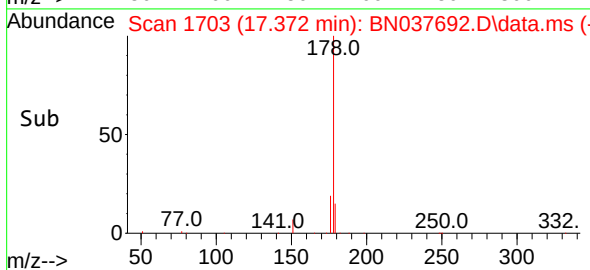
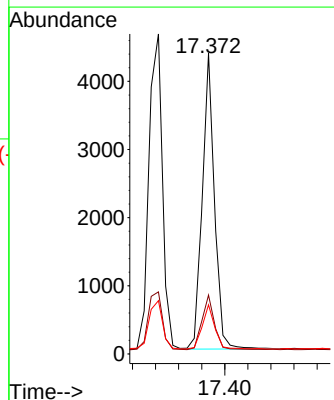
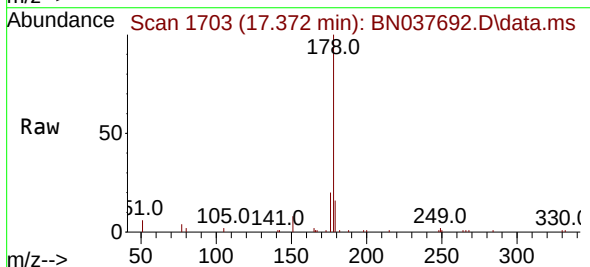
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

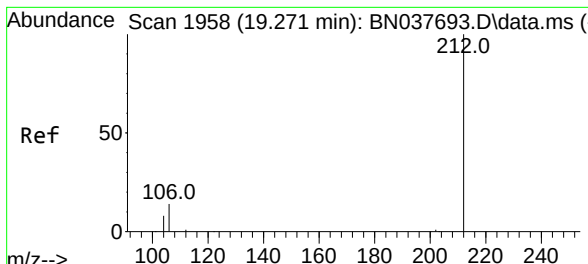
Tgt Ion:178 Resp: 7526
Ion Ratio Lower Upper
178 100
176 19.9 15.3 22.9
179 15.7 12.2 18.2



#26
Anthracene
Concen: 0.185 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:178 Resp: 6375
Ion Ratio Lower Upper
178 100
176 19.0 14.6 22.0
179 15.4 12.2 18.4

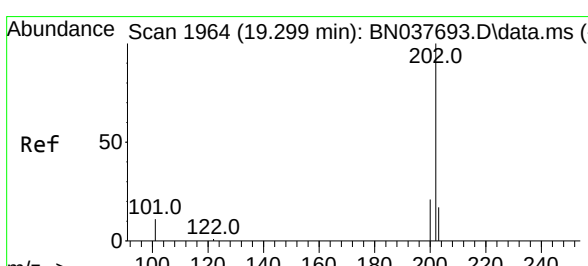
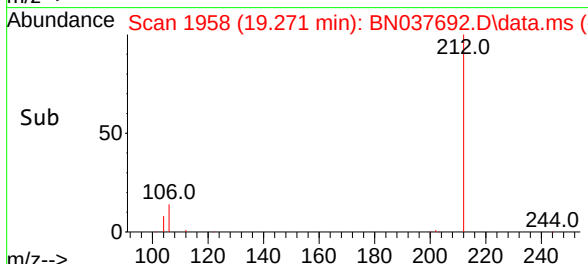
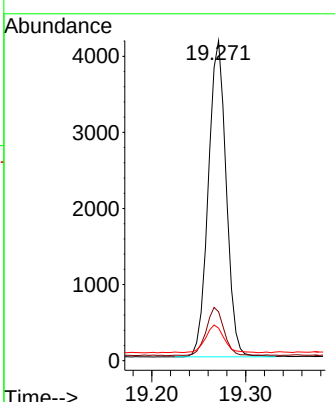
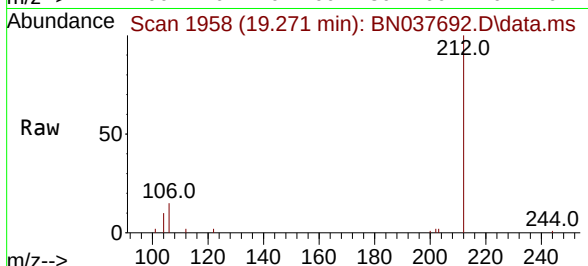




#27
 Fluoranthene-d10
 Concen: 0.177 ng
 RT: 19.271 min Scan# 1958
 Delta R.T. -0.000 min
 Lab File: BN037692.D
 Acq: 11 Sep 2025 10:32

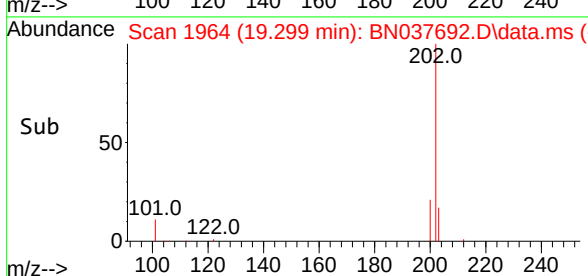
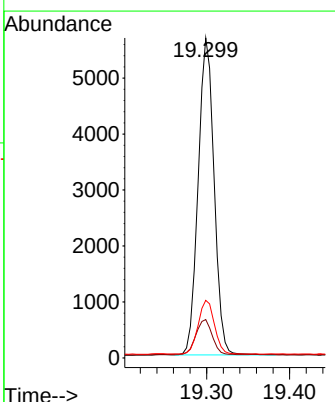
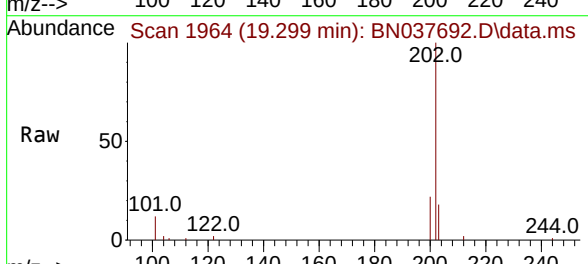
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

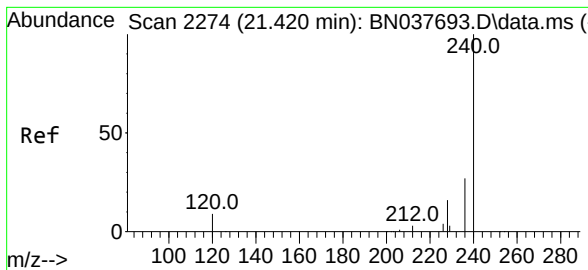
Tgt Ion:	212	Resp:	5492
Ion Ratio	Lower	Upper	
212	100		
106	15.4	12.2	18.2
104	9.0	6.9	10.3



#28
 Fluoranthene
 Concen: 0.177 ng
 RT: 19.299 min Scan# 1964
 Delta R.T. -0.000 min
 Lab File: BN037692.D
 Acq: 11 Sep 2025 10:32

Tgt Ion:	202	Resp:	7577
Ion Ratio	Lower	Upper	
202	100		
101	11.7	9.3	13.9
203	17.1	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.420 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

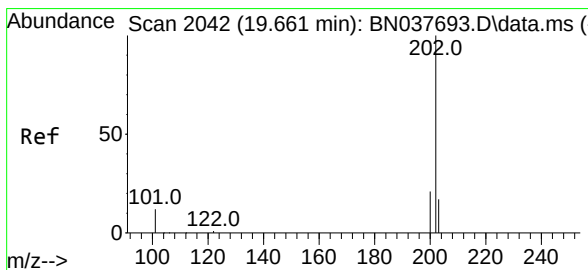
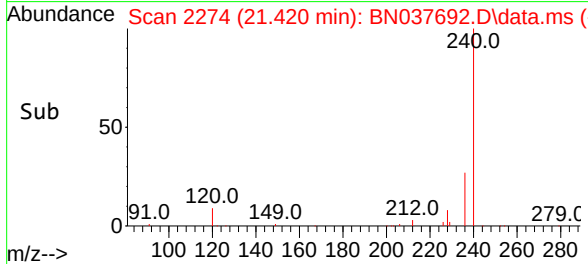
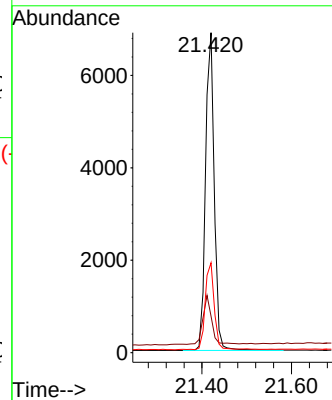
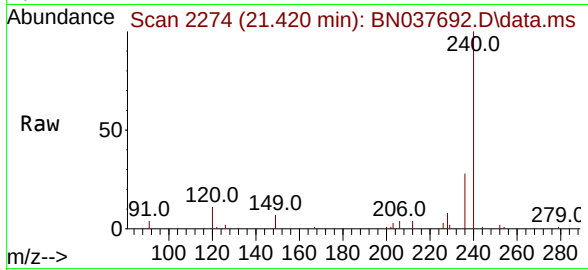
Tgt Ion:240 Resp: 9324

Ion Ratio Lower Upper

240 100

120 11.4 9.2 13.8

236 28.1 22.6 33.8



#30

Pyrene

Concen: 0.207 ng

RT: 19.661 min Scan# 2042

Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

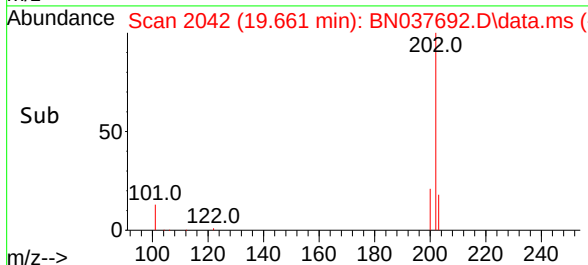
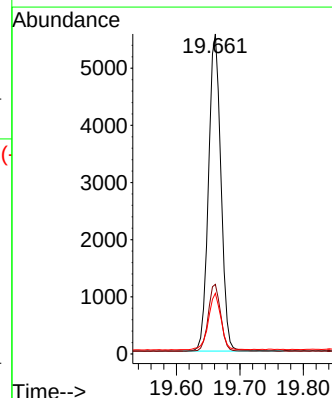
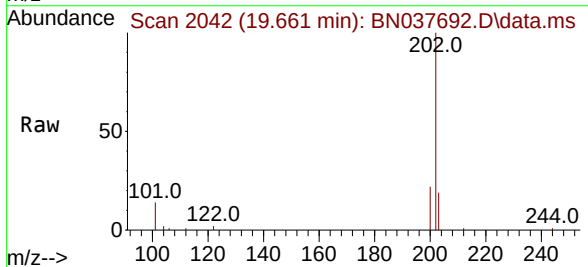
Tgt Ion:202 Resp: 7543

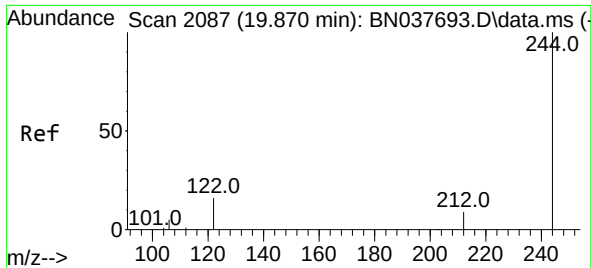
Ion Ratio Lower Upper

202 100

200 21.2 16.8 25.2

203 18.3 14.3 21.5

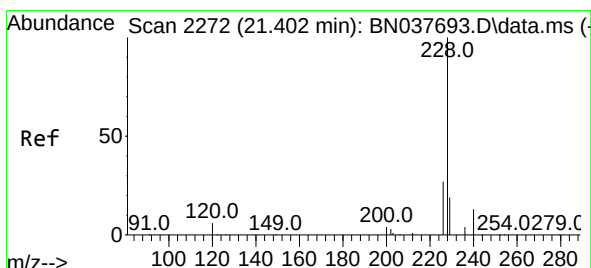
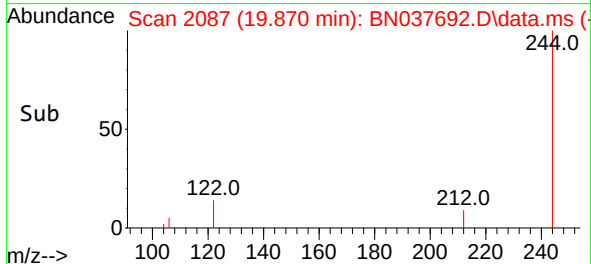
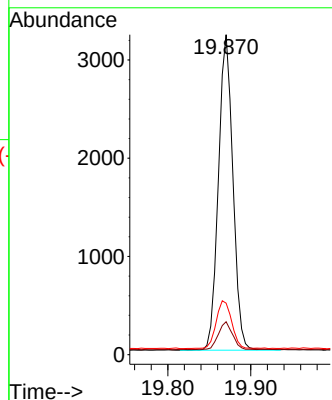
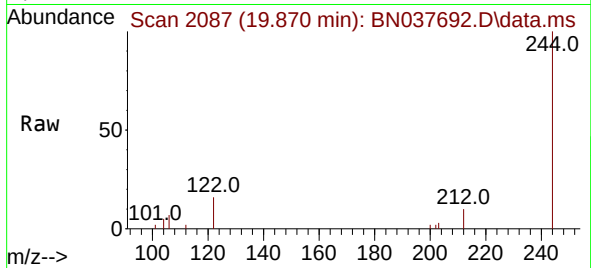




#31
 Terphenyl-d14
 Concen: 0.205 ng
 RT: 19.870 min Scan# 2087
 Delta R.T. -0.000 min
 Lab File: BN037692.D
 Acq: 11 Sep 2025 10:32

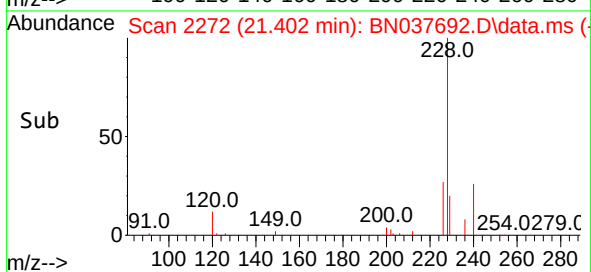
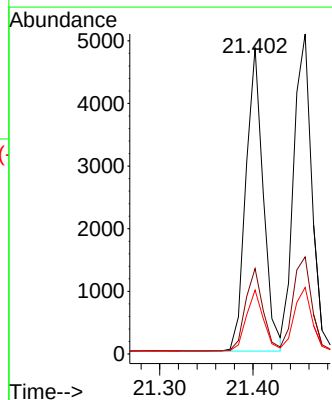
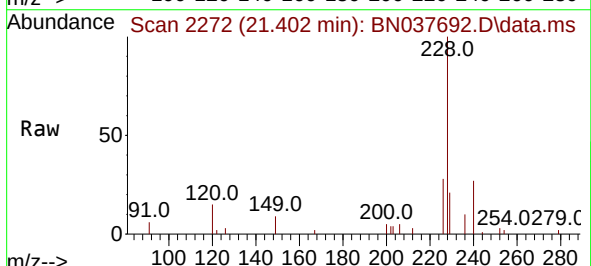
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

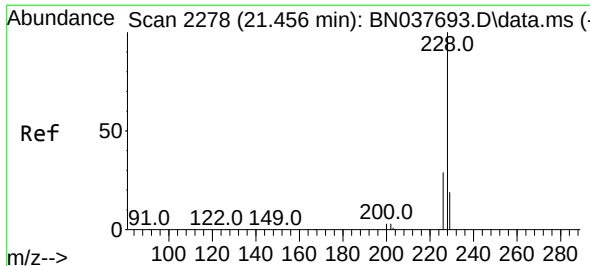
Tgt Ion:244	Resp:	3884	
Ion	Ratio	Lower	Upper
244	100		
212	10.3	7.5	11.3
122	16.1	13.2	19.8



#32
 Benzo(a)anthracene
 Concen: 0.193 ng
 RT: 21.402 min Scan# 2272
 Delta R.T. -0.000 min
 Lab File: BN037692.D
 Acq: 11 Sep 2025 10:32

Tgt Ion:228	Resp:	6270	
Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.2	33.2
229	20.8	15.8	23.6





#33

Chrysene

Concen: 0.199 ng

RT: 21.456 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

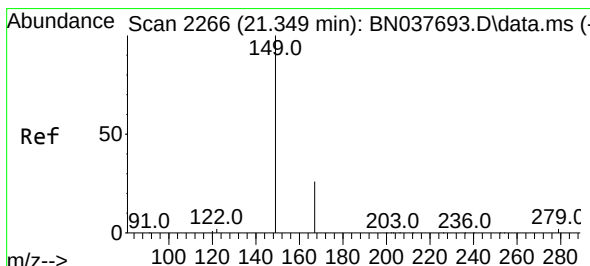
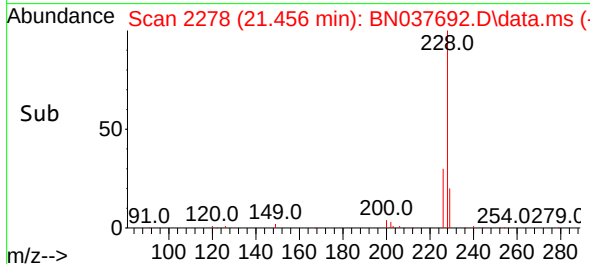
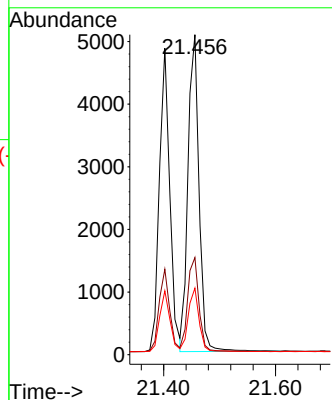
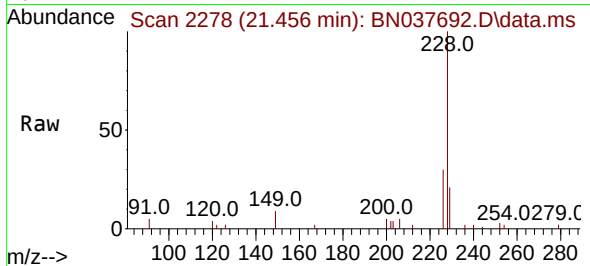
Tgt Ion:228 Resp: 6953

Ion Ratio Lower Upper

228 100

226 30.3 23.5 35.3

229 20.8 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.213 ng

RT: 21.348 min Scan# 2266

Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

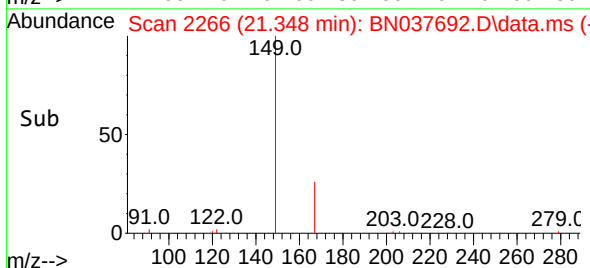
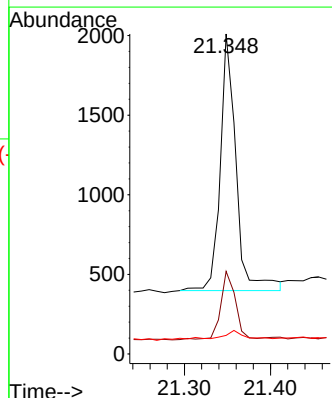
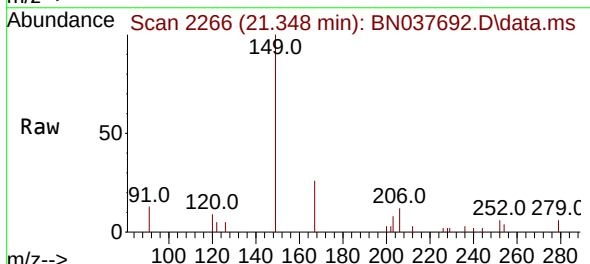
Tgt Ion:149 Resp: 2049

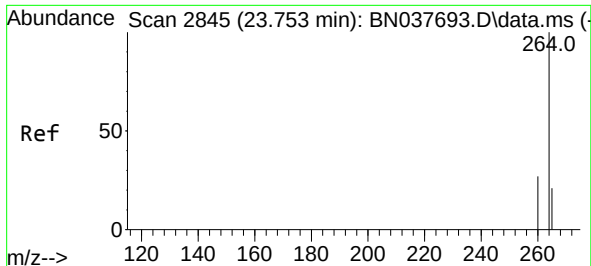
Ion Ratio Lower Upper

149 100

167 24.7 20.8 31.2

279 3.1 3.3 4.9#

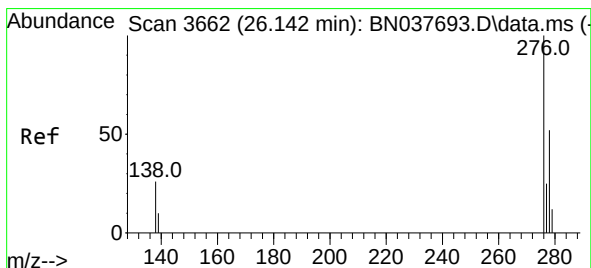
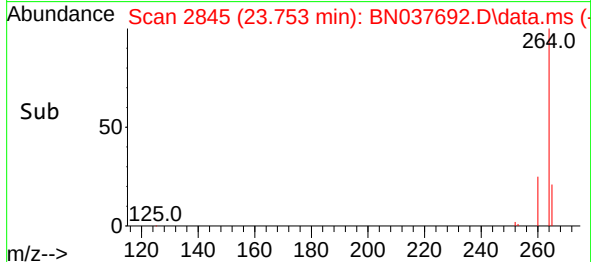
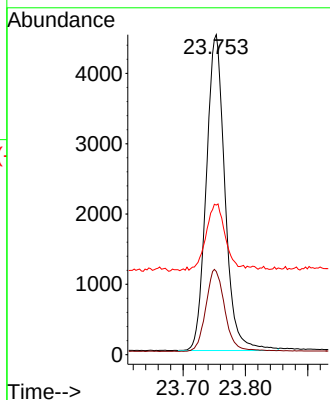
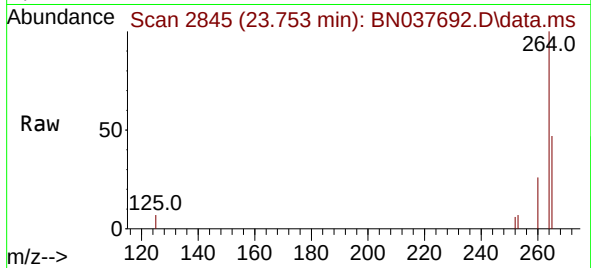




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.753 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN037692.D
 Acq: 11 Sep 2025 10:32

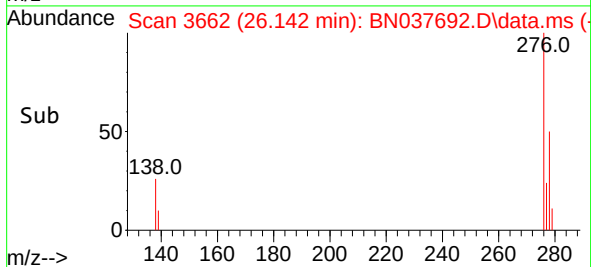
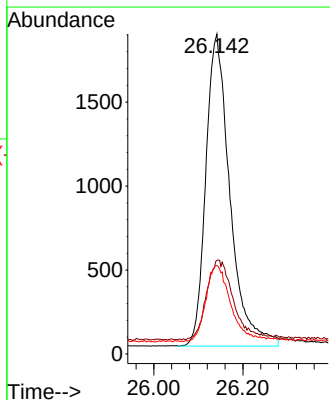
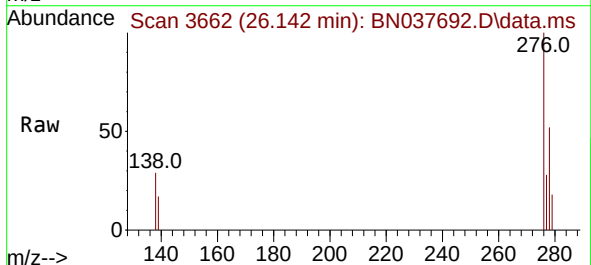
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

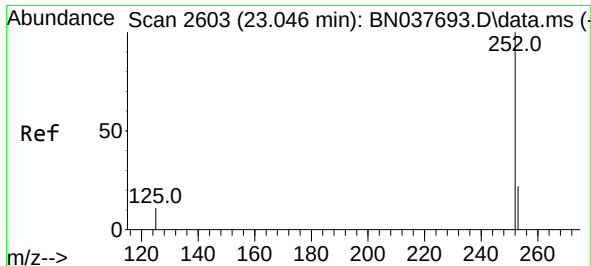
Tgt Ion:	264	Resp:	9364
Ion Ratio	Lower	Upper	
264	100		
260	26.0	21.8	32.8
265	46.7	39.4	59.2



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.177 ng
 RT: 26.142 min Scan# 3662
 Delta R.T. -0.000 min
 Lab File: BN037692.D
 Acq: 11 Sep 2025 10:32

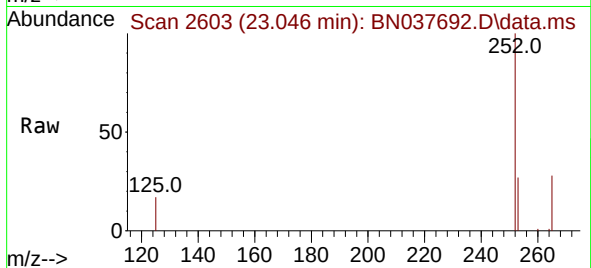
Tgt Ion:	276	Resp:	6982
Ion Ratio	Lower	Upper	
276	100		
138	28.1	21.9	32.9
277	24.6	20.1	30.1



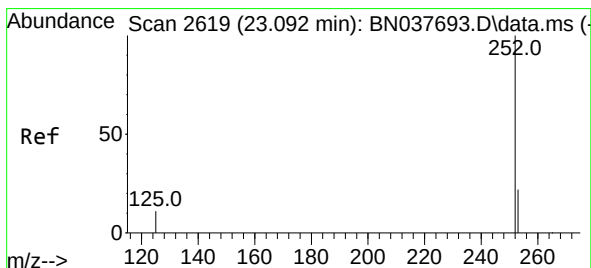
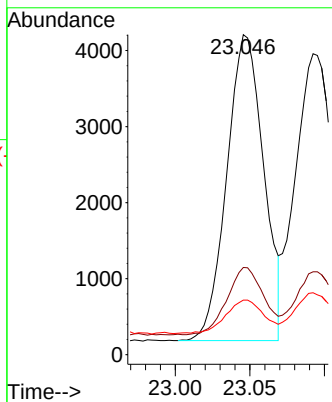
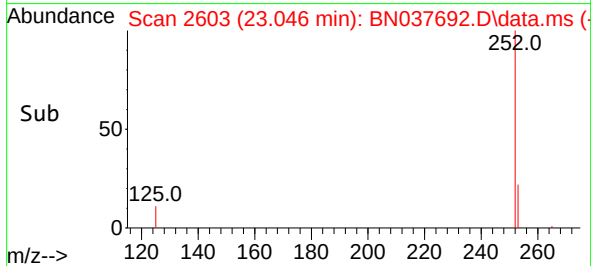


#37
Benzo(b)fluoranthene
Concen: 0.187 ng
RT: 23.046 min Scan# 2603
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

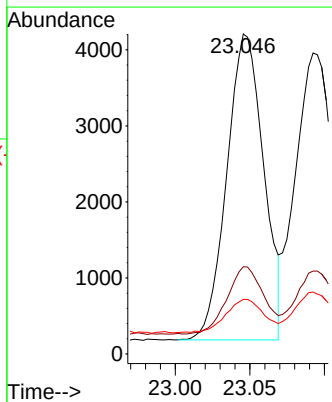
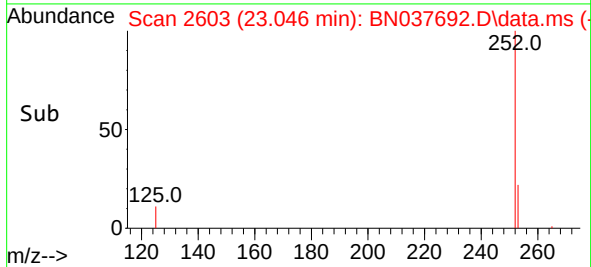
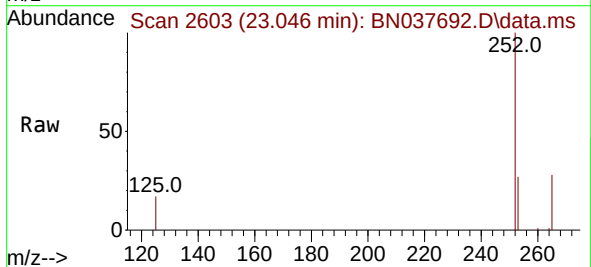


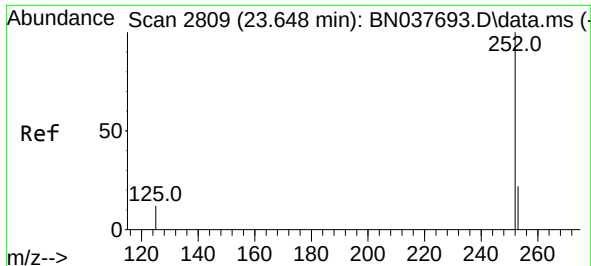
Tgt Ion:252 Resp: 6907
Ion Ratio Lower Upper
252 100
253 27.3 19.4 29.2
125 17.0 11.2 16.8#



#38
Benzo(k)fluoranthene
Concen: 0.184 ng
RT: 23.046 min Scan# 2603
Delta R.T. -0.047 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:252 Resp: 6907
Ion Ratio Lower Upper
252 100
253 27.3 19.4 29.0
125 17.0 11.6 17.4

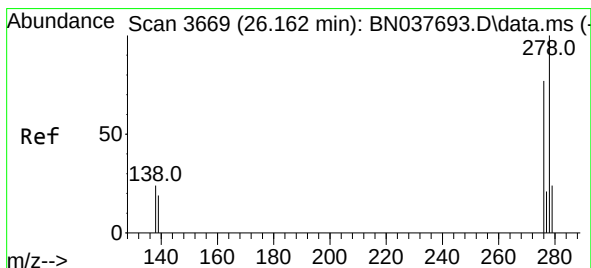
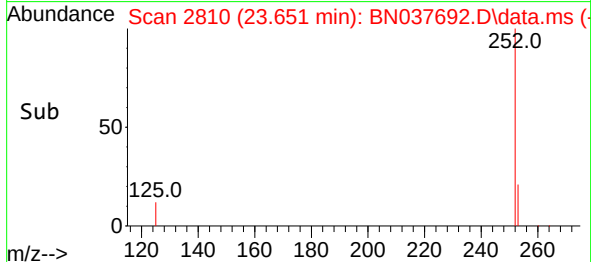
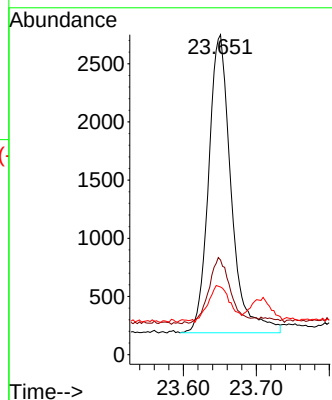
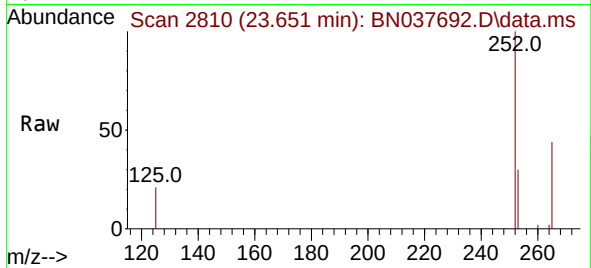




#39
Benzo(a)pyrene
Concen: 0.186 ng
RT: 23.651 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

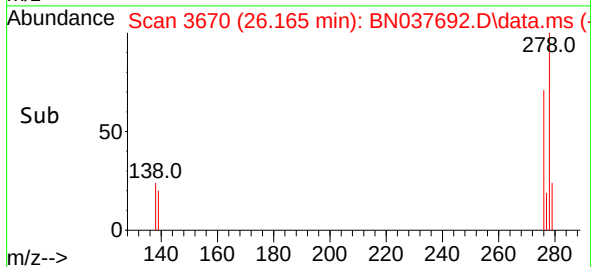
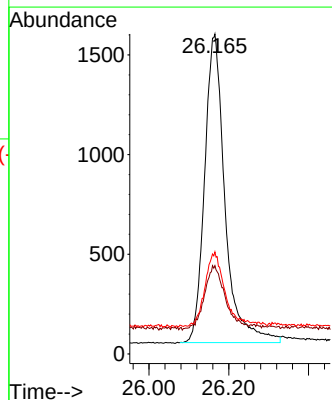
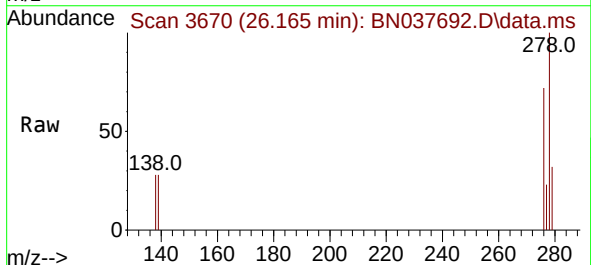
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

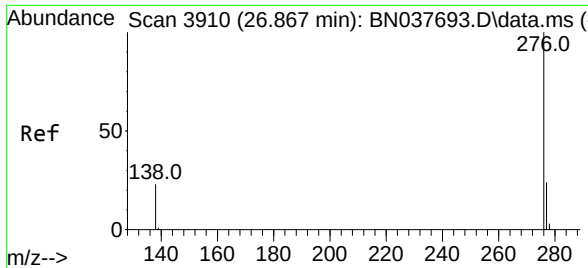
Tgt Ion:252 Resp: 5489
Ion Ratio Lower Upper
252 100
253 29.6 20.8 31.2
125 21.1 13.9 20.9#



#40
Dibenzo(a,h)anthracene
Concen: 0.175 ng
RT: 26.165 min Scan# 3670
Delta R.T. 0.003 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:278 Resp: 5503
Ion Ratio Lower Upper
278 100
139 27.6 17.8 26.6#
279 31.9 22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 0.186 ng

RT: 26.864 min Scan# 3910

Delta R.T. -0.003 min

Lab File: BN037692.D

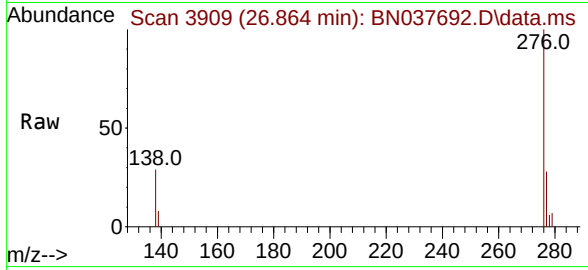
Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



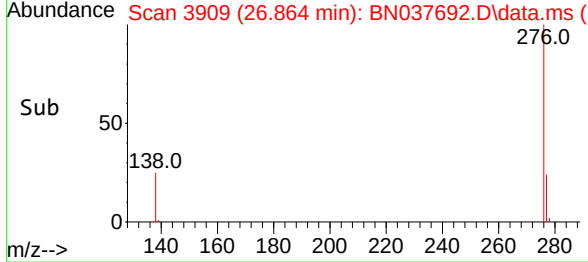
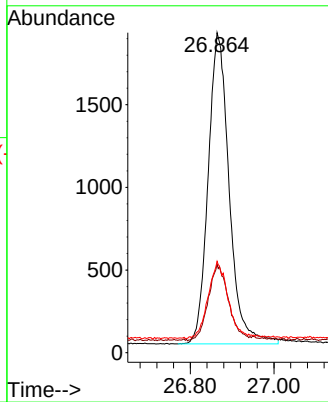
Tgt Ion:276 Resp: 6566

Ion Ratio Lower Upper

276 100

277 27.6 20.6 31.0

138 28.6 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
 Data File : BN037792.D
 Acq On : 19 Sep 2025 00:16
 Operator : RC/JU
 Sample : PB169693BS
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB169693BS

Quant Time: Sep 19 04:12:55 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

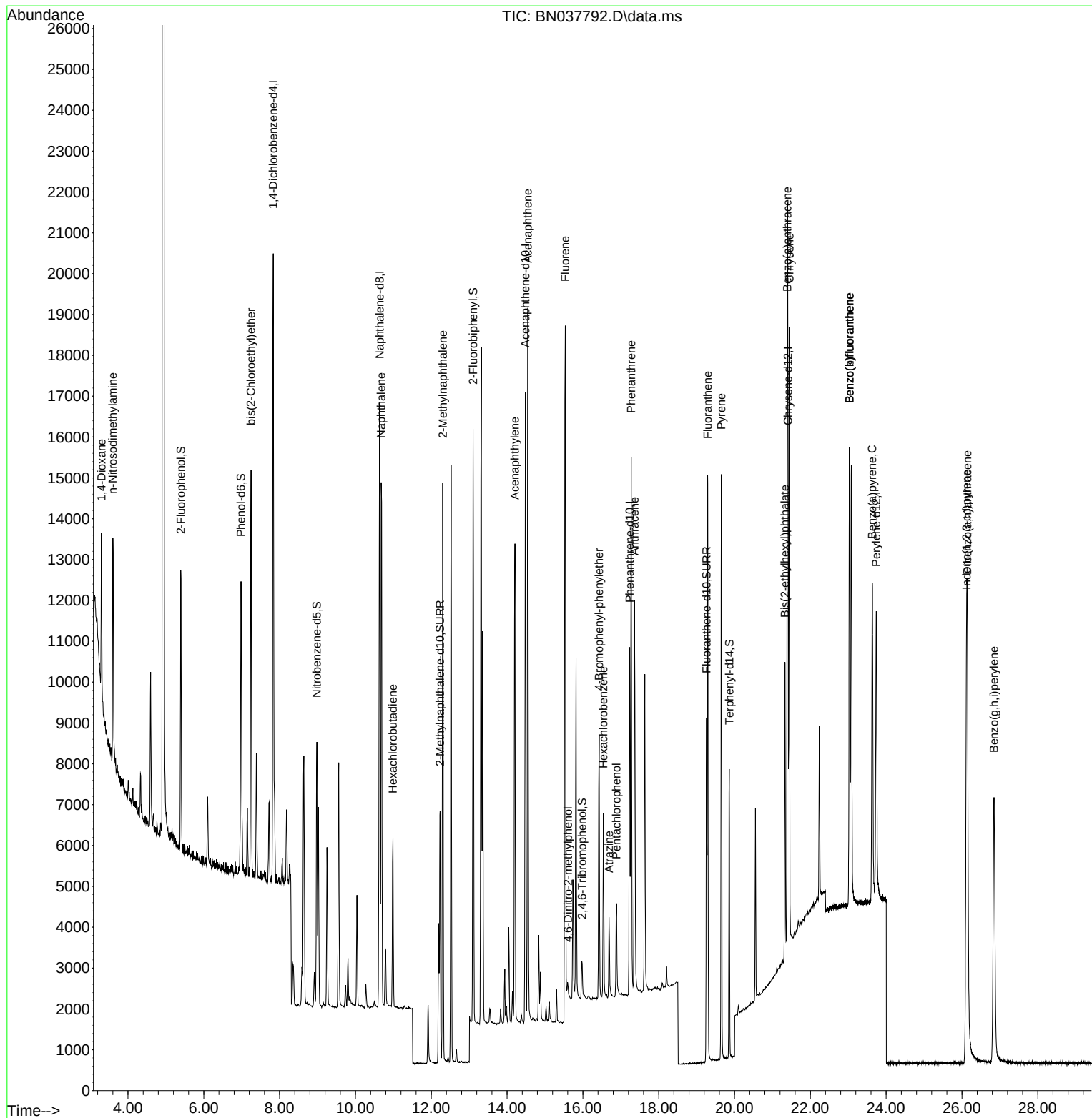
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7441	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	19392	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	8149	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	12386	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	10095	0.400	ng	0.00
35) Perylene-d12	23.738	264	10200	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	5555	0.325	ng	0.00
5) Phenol-d6	6.980	99	6563	0.296	ng	0.00
8) Nitrobenzene-d5	8.982	82	5088	0.359	ng	-0.01
11) 2-Methylnaphthalene-d10	12.232	152	7932	0.309	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	674	0.317	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	12492	0.367	ng	-0.01
27) Fluoranthene-d10	19.262	212	9050	0.291	ng	0.00
31) Terphenyl-d14	19.861	244	6591	0.322	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.304	88	2366	0.305	ng	# 85
3) n-Nitrosodimethylamine	3.600	42	3300	0.326	ng	# 90
6) bis(2-Chloroethyl)ether	7.248	93	6941	0.351	ng	100
9) Naphthalene	10.680	128	17810	0.336	ng	99
10) Hexachlorobutadiene	10.989	225	3379	0.352	ng	# 99
12) 2-Methylnaphthalene	12.303	142	9820	0.299	ng	99
16) Acenaphthylene	14.206	152	13377	0.358	ng	99
17) Acenaphthene	14.548	154	8509	0.337	ng	99
18) Fluorene	15.535	166	9452	0.309	ng	99
20) 4,6-Dinitro-2-methylph...	15.609	198	305	0.266	ng	# 88
21) 4-Bromophenyl-phenylether	16.428	248	2895	0.358	ng	# 92
22) Hexachlorobenzene	16.540	284	3601	0.388	ng	98
23) Atrazine	16.689	200	1710	0.333	ng	# 94
24) Pentachlorophenol	16.888	266	1388	0.515	ng	98
25) Phenanthrene	17.273	178	13505	0.346	ng	100
26) Anthracene	17.359	178	11748	0.340	ng	99
28) Fluoranthene	19.294	202	12912	0.302	ng	100
30) Pyrene	19.652	202	12854	0.325	ng	100
32) Benzo(a)anthracene	21.393	228	12540	0.356	ng	100
33) Chrysene	21.447	228	13567	0.359	ng	100
34) Bis(2-ethylhexyl)phtha...	21.331	149	3708	0.355	ng	98
36) Indeno(1,2,3-cd)pyrene	26.118	276	17423	0.407	ng	99
37) Benzo(b)fluoranthene	23.034	252	14955	0.372	ng	# 96
38) Benzo(k)fluoranthene	23.034	252	14955	0.365	ng	96
39) Benzo(a)pyrene	23.633	252	12714	0.395	ng	# 94
40) Dibenzo(a,h)anthracene	26.142	278	13475	0.394	ng	99
41) Benzo(g,h,i)perylene	26.843	276	15272	0.398	ng	99

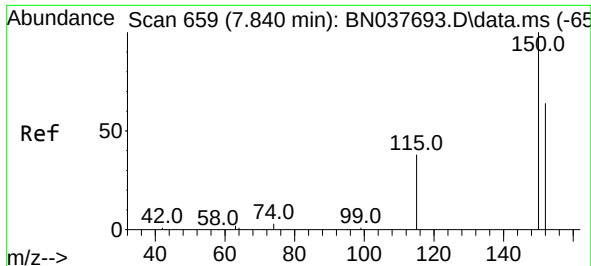
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Acq On : 19 Sep 2025 00:16
Operator : RC/JU
Sample : PB169693BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169693BS

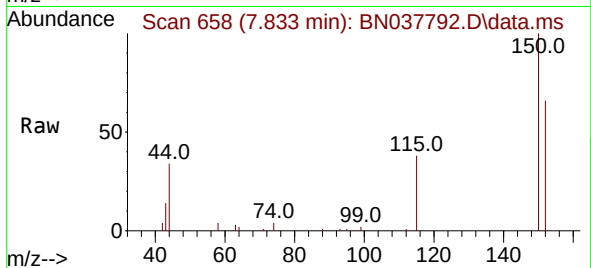
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QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



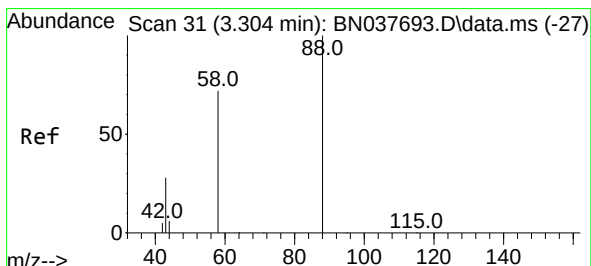
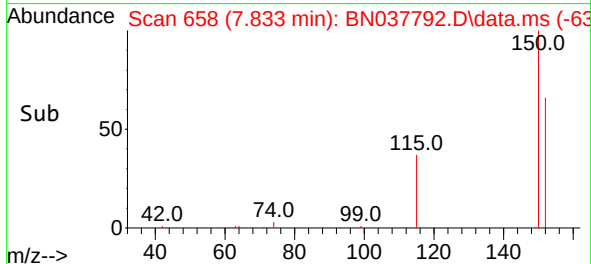
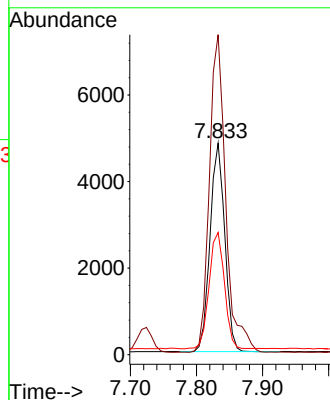


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.833 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN037792.D
 Acq: 19 Sep 2025 00:16

Instrument :
 BNA_N
 ClientSampleId :
 PB169693BS

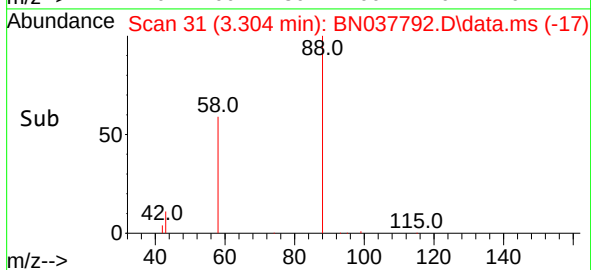
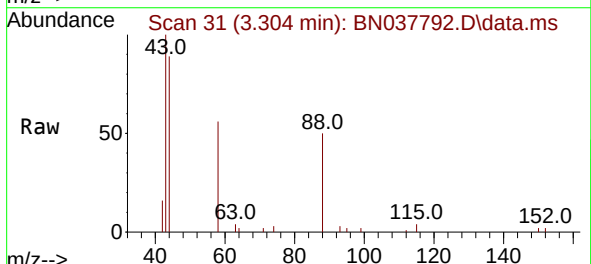
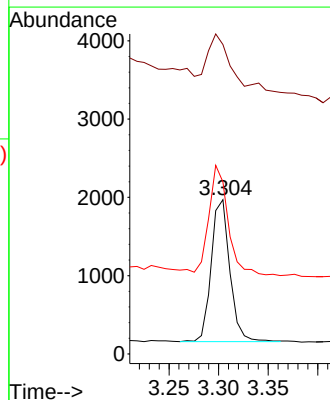


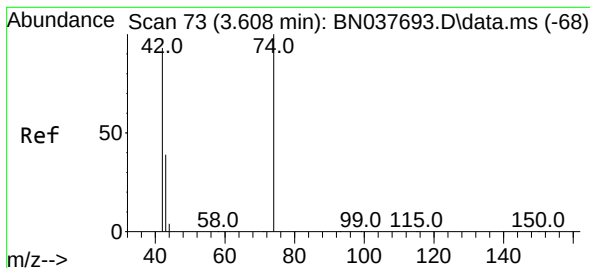
Tgt Ion:152 Resp: 7441
 Ion Ratio Lower Upper
 152 100
 150 151.3 124.5 186.7
 115 57.8 49.2 73.8



#2
 1,4-Dioxane
 Concen: 0.305 ng
 RT: 3.304 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: BN037792.D
 Acq: 19 Sep 2025 00:16

Tgt Ion: 88 Resp: 2366
 Ion Ratio Lower Upper
 88 100
 43 56.6 26.8 40.2#
 58 80.3 61.9 92.9

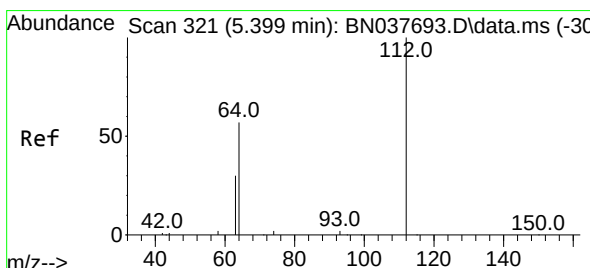
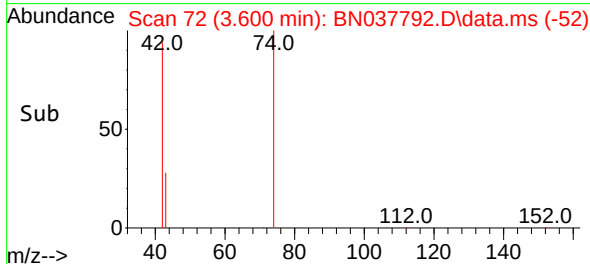
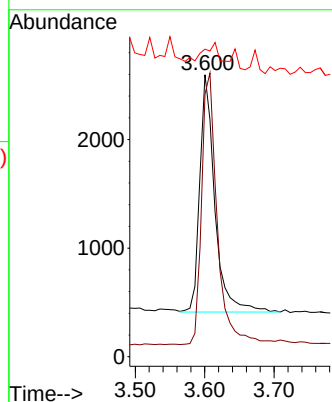
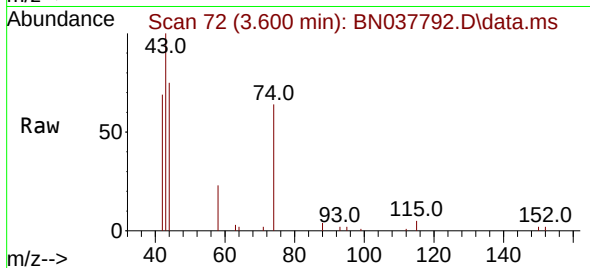




#3
 n-Nitrosodimethylamine
 Concen: 0.326 ng
 RT: 3.600 min Scan# 71
 Delta R.T. -0.007 min
 Lab File: BN037792.D
 Acq: 19 Sep 2025 00:16

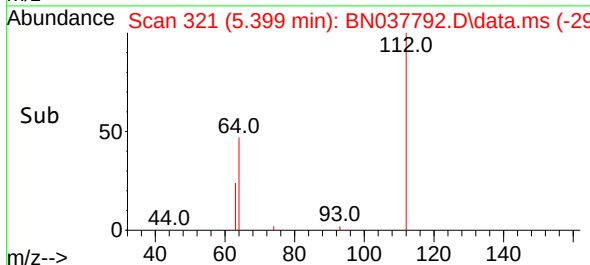
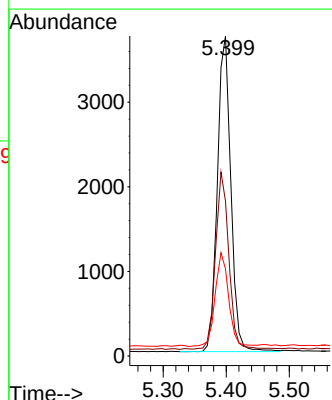
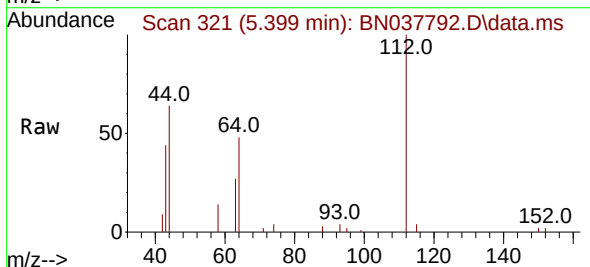
Instrument :
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 ClientSampleId :
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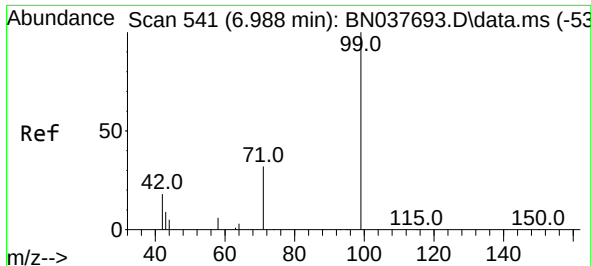
Tgt Ion: 42 Resp: 3300
 Ion Ratio Lower Upper
 42 100
 74 118.9 86.0 129.0
 44 8.3 8.4 12.6#



#4
 2-Fluorophenol
 Concen: 0.325 ng
 RT: 5.399 min Scan# 321
 Delta R.T. -0.000 min
 Lab File: BN037792.D
 Acq: 19 Sep 2025 00:16

Tgt Ion: 112 Resp: 5555
 Ion Ratio Lower Upper
 112 100
 64 55.5 44.9 67.3
 63 29.6 24.7 37.1

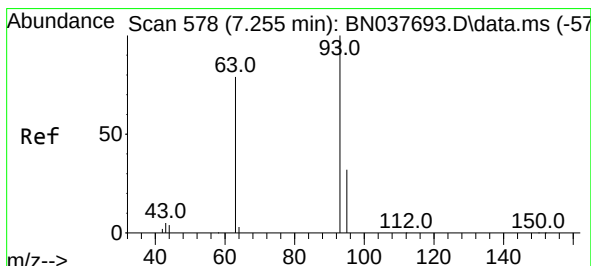
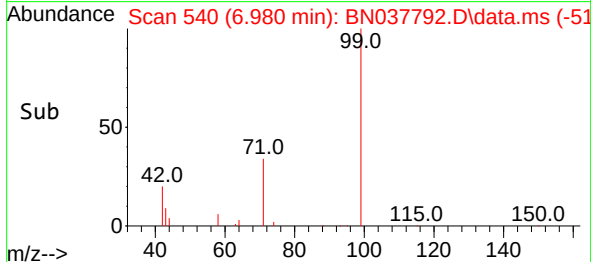
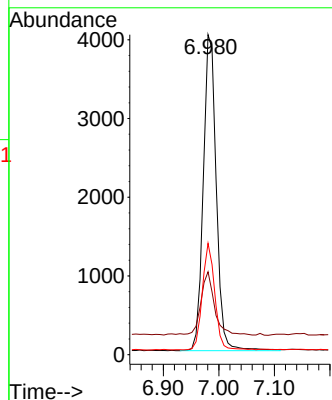
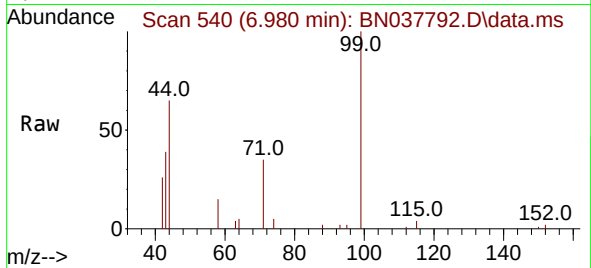




#5
Phenol-d6
Concen: 0.296 ng
RT: 6.980 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

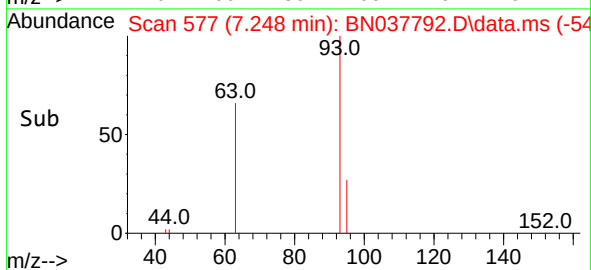
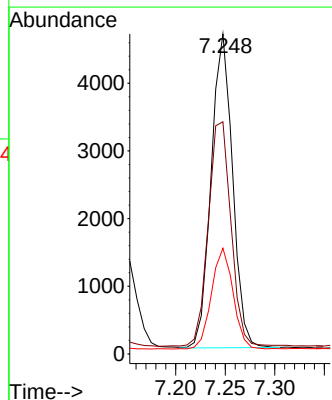
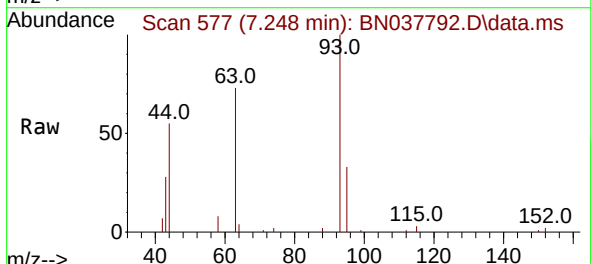
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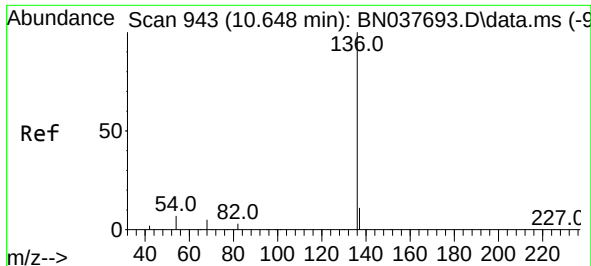
Tgt Ion: 99 Resp: 6563
Ion Ratio Lower Upper
99 100
42 20.6 16.6 24.8
71 32.2 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.351 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion: 93 Resp: 6941
Ion Ratio Lower Upper
93 100
63 76.1 60.6 90.8
95 32.6 26.0 39.0

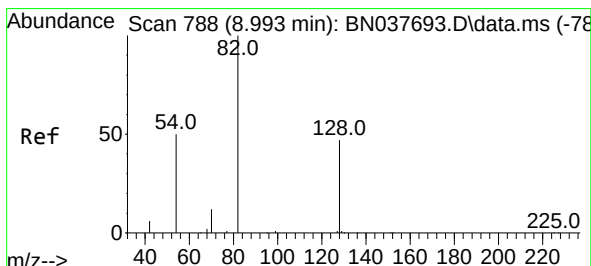
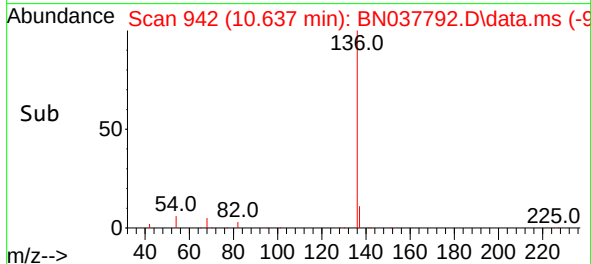
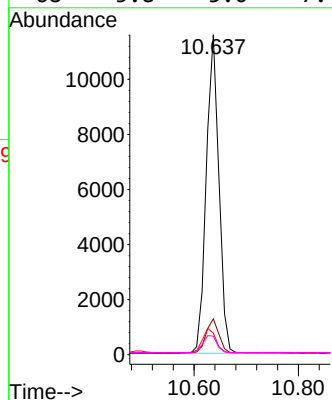
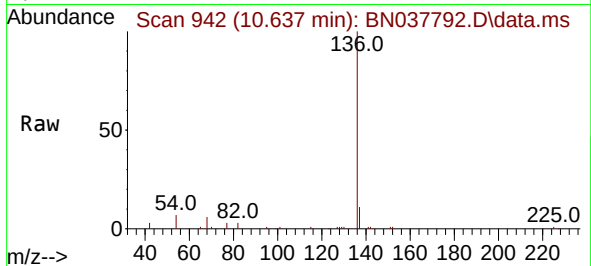




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

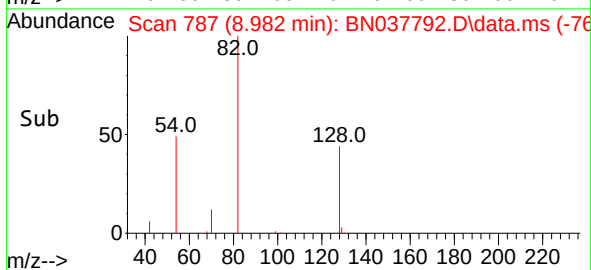
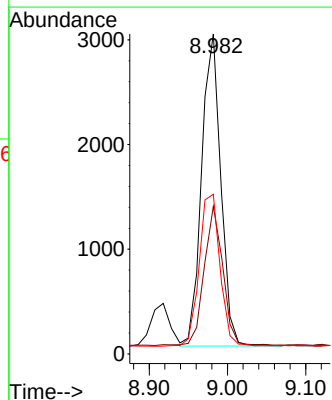
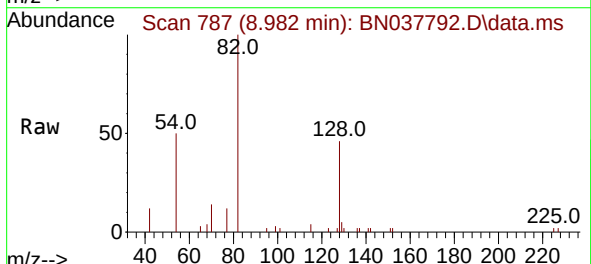
Instrument :
BNA_N
ClientSampleId :
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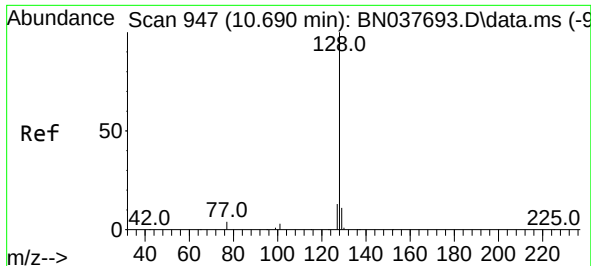
Tgt Ion:	136	Resp:	19392
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	6.8	6.3	9.5
68	5.8	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.359 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:	82	Resp:	5088
Ion	Ratio	Lower	Upper
82	100		
128	46.1	38.3	57.5
54	49.9	41.4	62.2

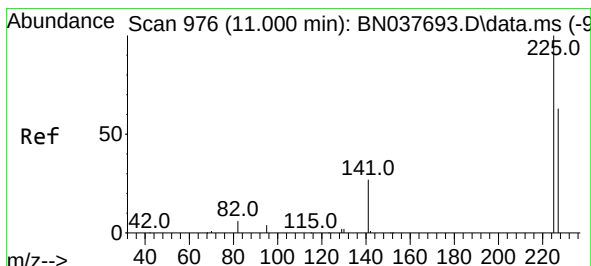
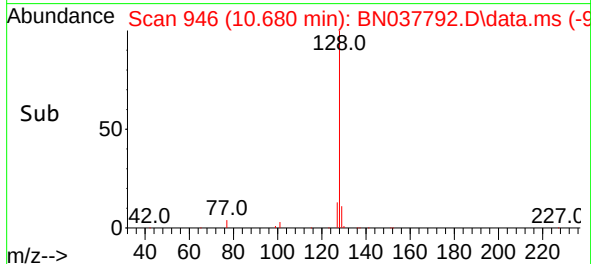
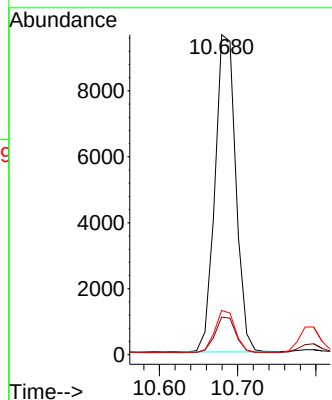
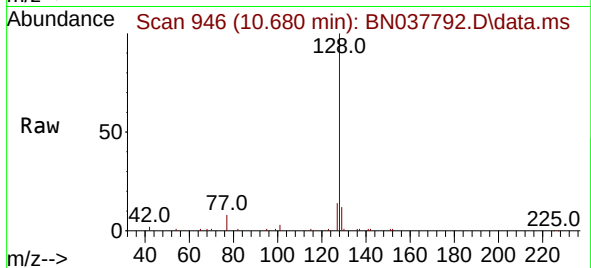




#9
Naphthalene
Concen: 0.336 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

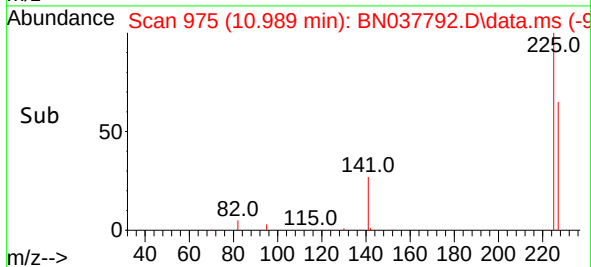
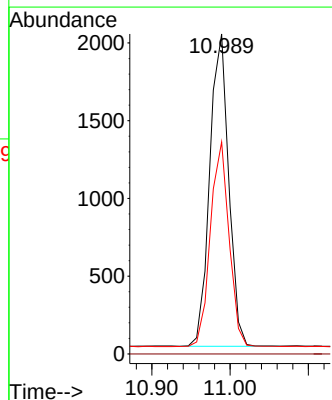
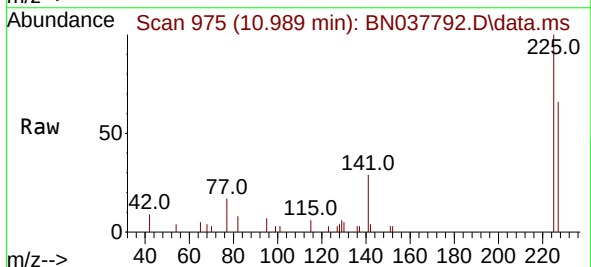
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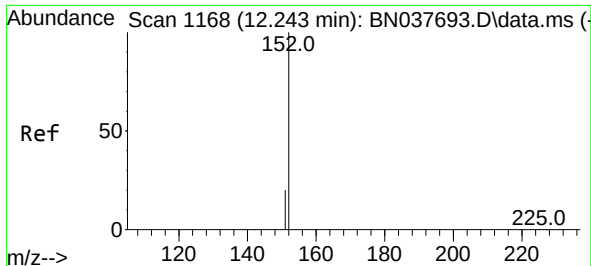
Tgt Ion:128 Resp: 17810
Ion Ratio Lower Upper
128 100
129 11.7 9.1 13.7
127 13.8 10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.352 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:225 Resp: 3379
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.5 50.9 76.3

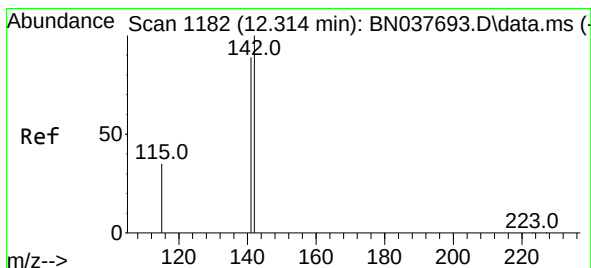
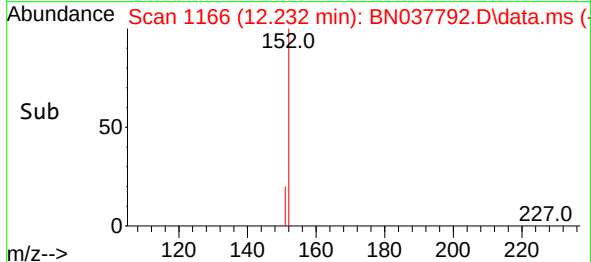
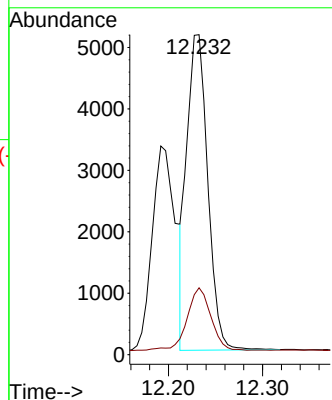
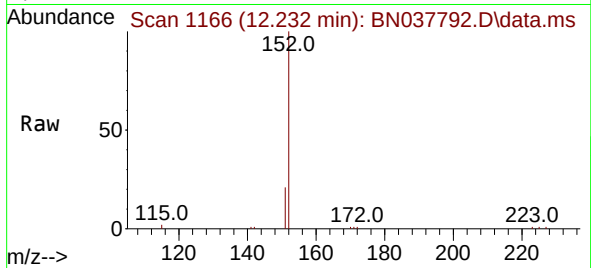




#11
2-Methylnaphthalene-d10
Concen: 0.309 ng
RT: 12.232 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

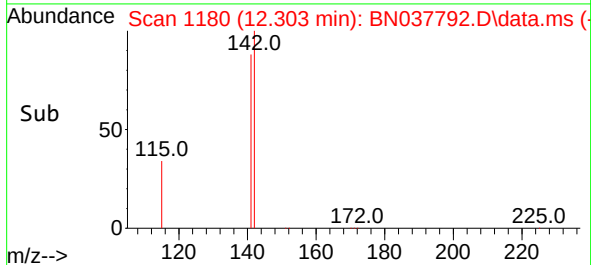
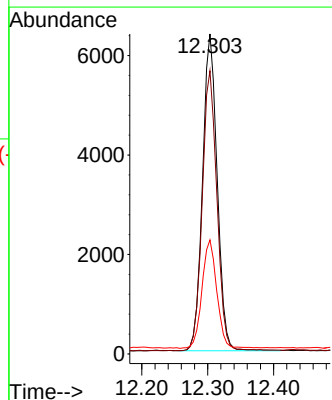
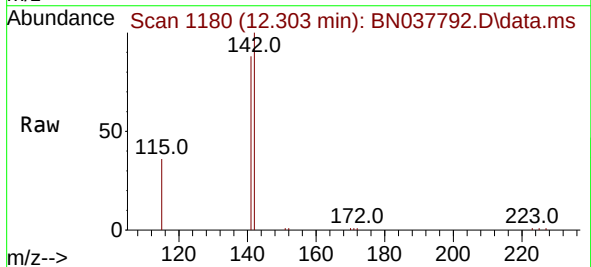
Instrument :
BNA_N
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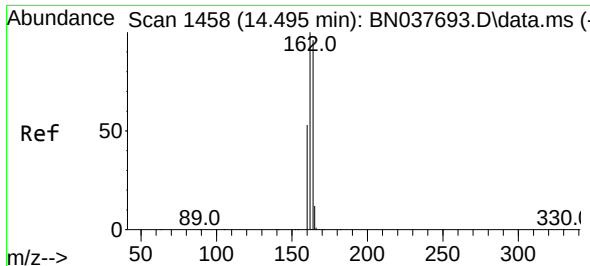
Tgt Ion:152 Resp: 7932
Ion Ratio Lower Upper
152 100
151 22.6 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.299 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:142 Resp: 9820
Ion Ratio Lower Upper
142 100
141 88.5 71.6 107.4
115 35.7 28.6 43.0

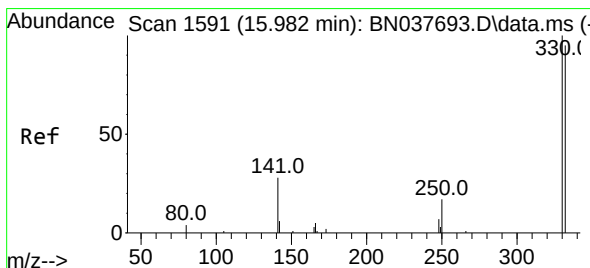
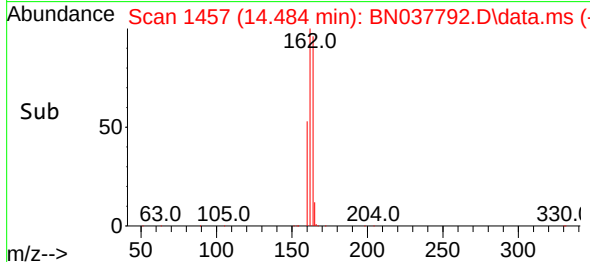
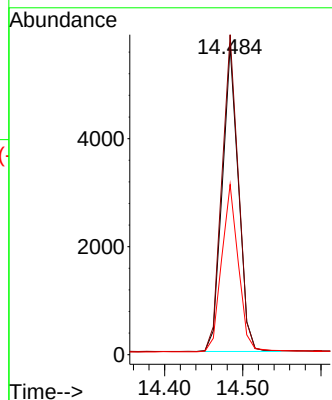
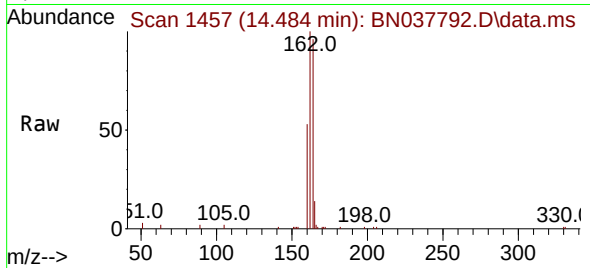




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

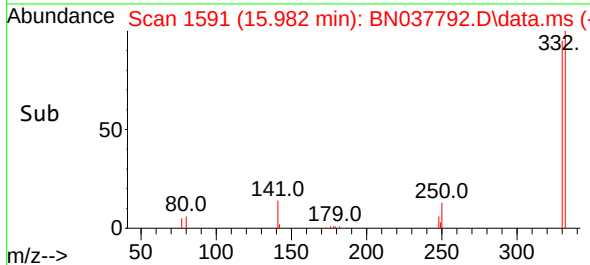
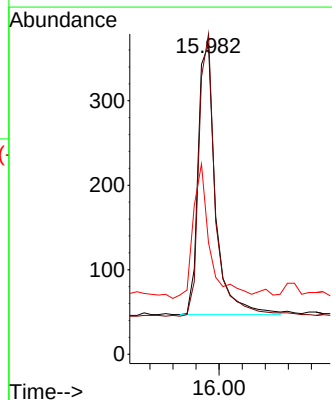
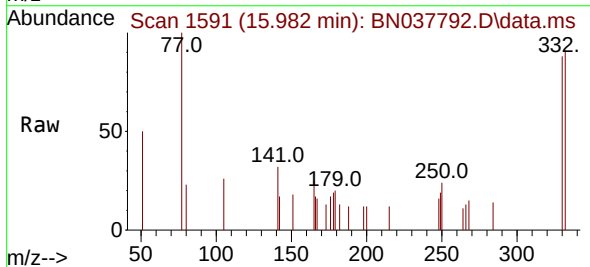
Instrument :
BNA_N
ClientSampleId :
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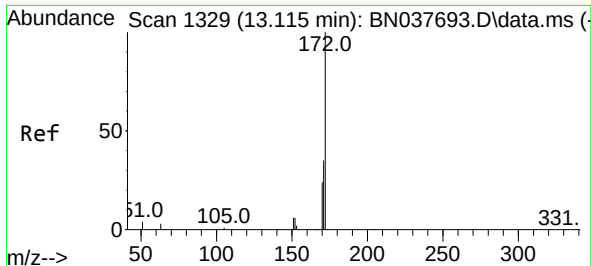
Tgt Ion:164 Resp: 8149
Ion Ratio Lower Upper
164 100
162 103.7 83.1 124.7
160 55.2 44.3 66.5



#14
2,4,6-Tribromophenol
Concen: 0.317 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:330 Resp: 674
Ion Ratio Lower Upper
330 100
332 99.4 75.3 112.9
141 47.6 35.0 52.4

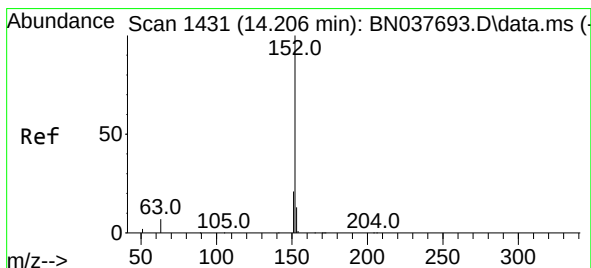
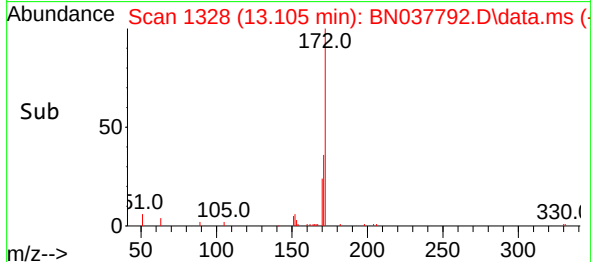
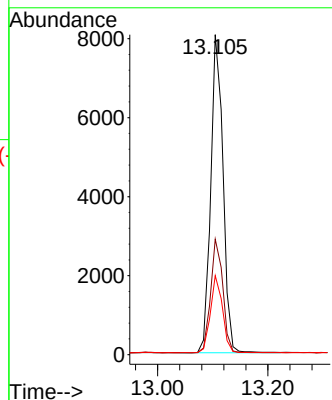
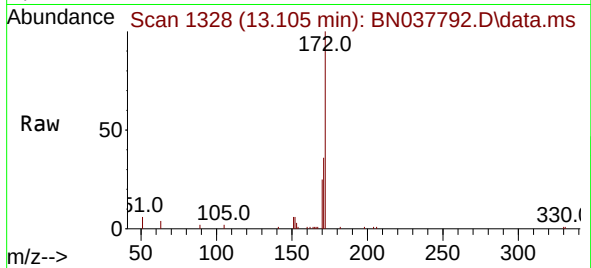




#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

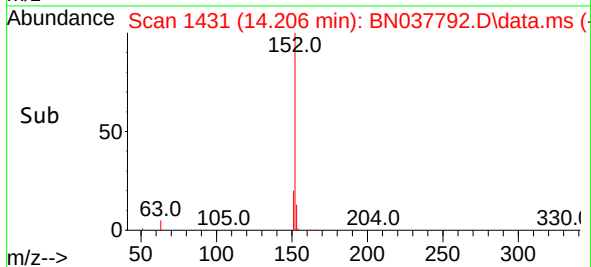
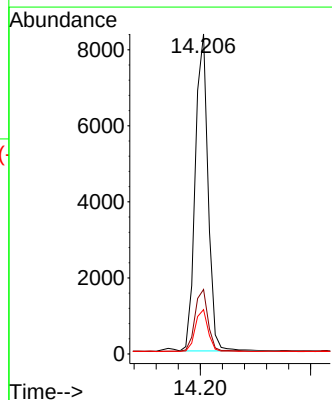
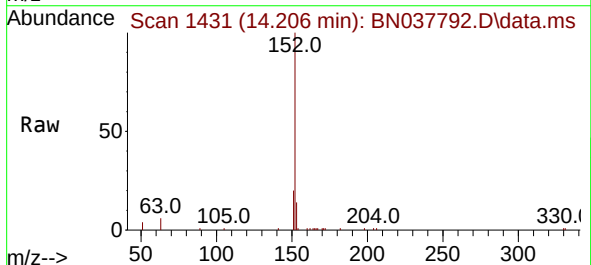
Instrument :
BNA_N
ClientSampleId :
PB169693BS

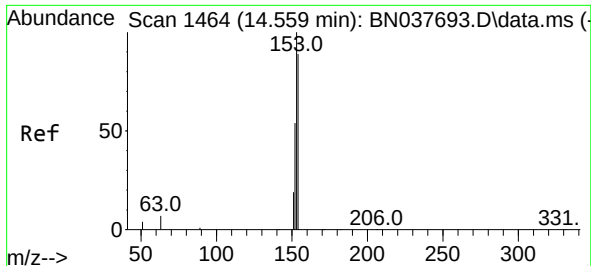
Tgt Ion:172 Resp: 12492
Ion Ratio Lower Upper
172 100
171 36.1 28.6 43.0
170 24.7 19.8 29.8



#16
Acenaphthylene
Concen: 0.358 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

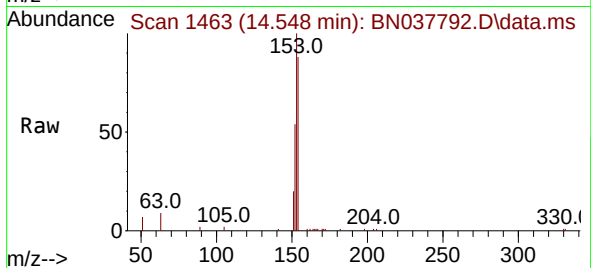
Tgt Ion:152 Resp: 13377
Ion Ratio Lower Upper
152 100
151 20.1 16.2 24.2
153 13.4 10.4 15.6



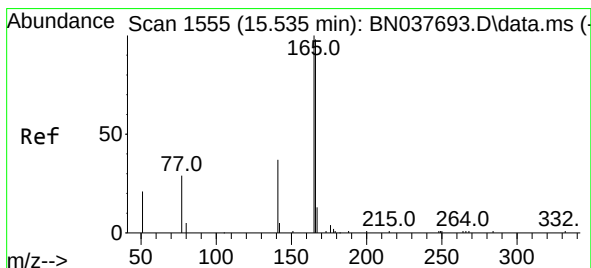
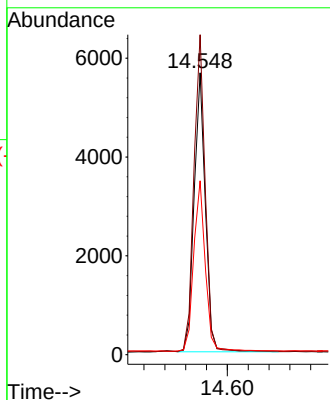
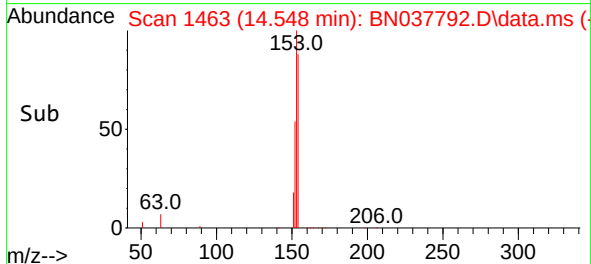


#17
Acenaphthene
Concen: 0.337 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

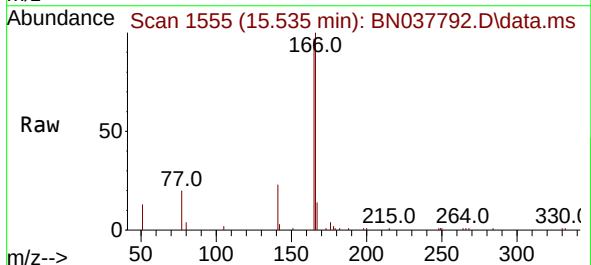
Instrument :
BNA_N
ClientSampleId :
PB169693BS



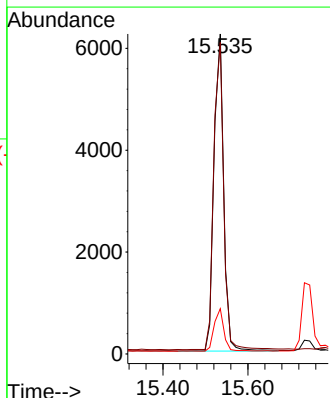
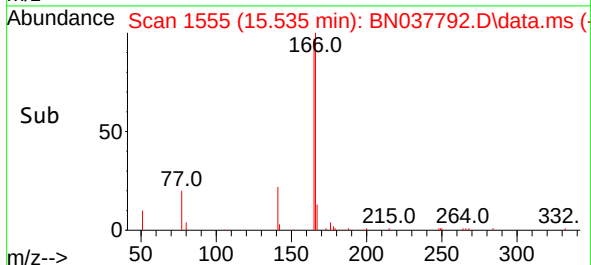
Tgt Ion:154 Resp: 8509
Ion Ratio Lower Upper
154 100
153 113.0 89.8 134.8
152 62.9 50.2 75.2

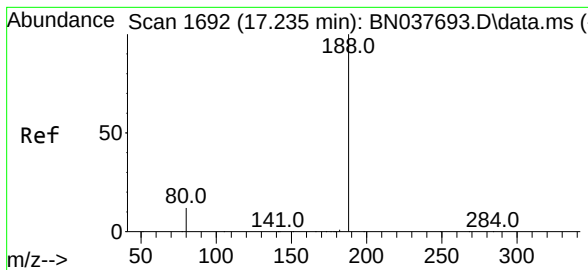


#18
Fluorene
Concen: 0.309 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16



Tgt Ion:166 Resp: 9452
Ion Ratio Lower Upper
166 100
165 99.9 79.6 119.4
167 13.9 10.6 16.0

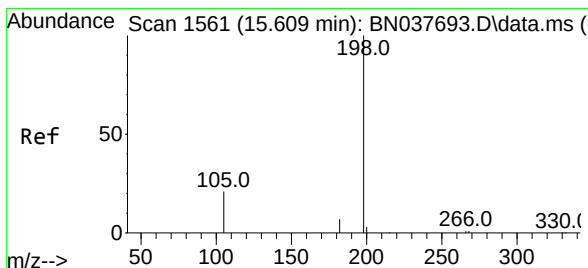
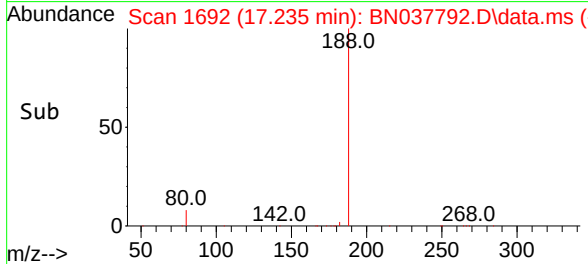
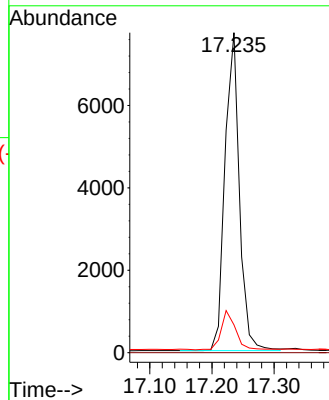
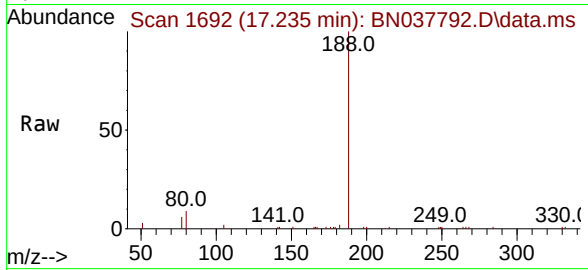




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

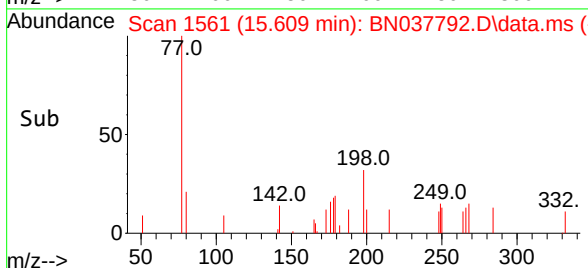
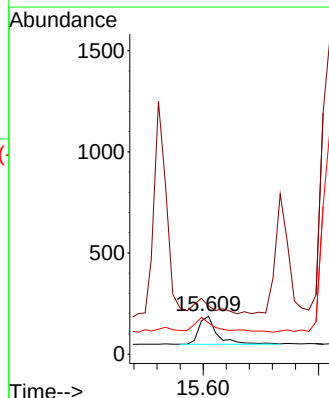
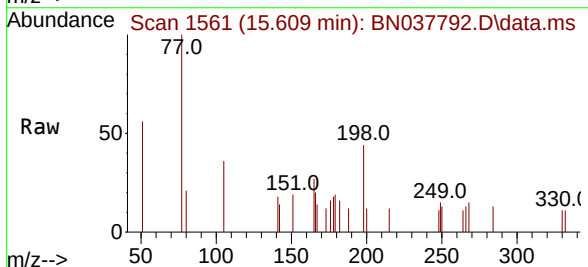
Instrument :
BNA_N
ClientSampleId :
PB169693BS

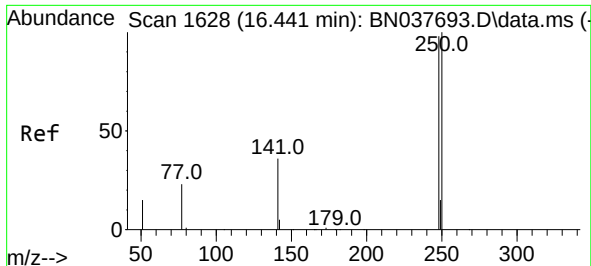
Tgt Ion:188 Resp: 12386
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.7 10.6 15.8#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.266 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:198 Resp: 305
Ion Ratio Lower Upper
198 100
51 127.3 95.1 142.7
105 82.4 53.8 80.6#

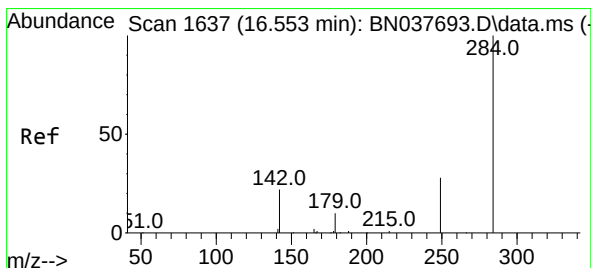
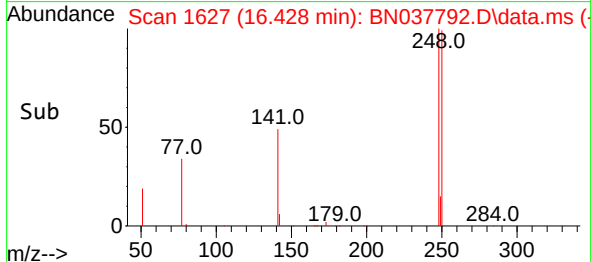
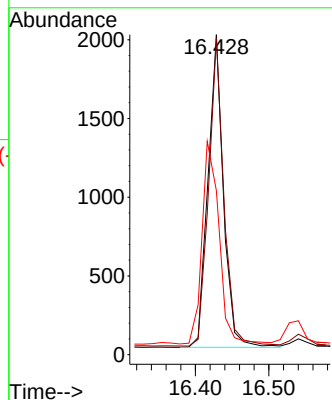
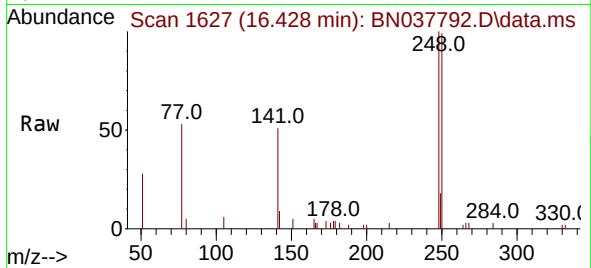




#21
4-Bromophenyl-phenylether
Concen: 0.358 ng
RT: 16.428 min Scan# 1627
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

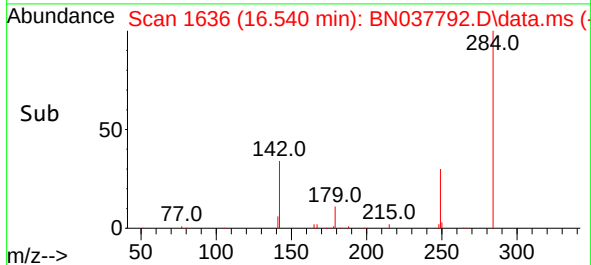
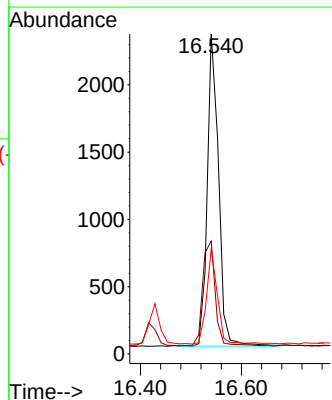
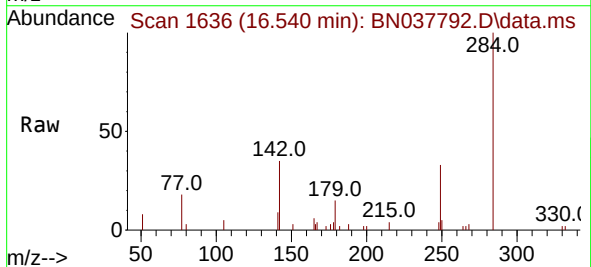
Instrument :
BNA_N
ClientSampleId :
PB169693BS

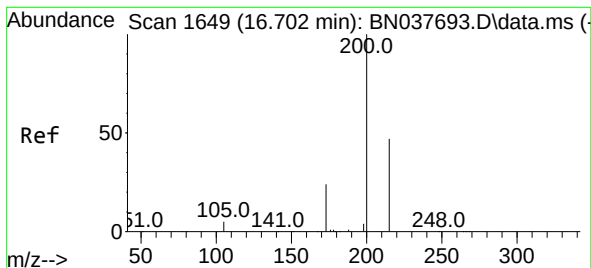
Tgt Ion:248 Resp: 2895
Ion Ratio Lower Upper
248 100
250 99.0 81.5 122.3
141 51.3 30.8 46.2#



#22
Hexachlorobenzene
Concen: 0.388 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:284 Resp: 3601
Ion Ratio Lower Upper
284 100
142 37.9 30.9 46.3
249 28.9 24.8 37.2





#23

Atrazine

Concen: 0.333 ng

RT: 16.689 min Scan# 1

Delta R.T. -0.013 min

Lab File: BN037792.D

Acq: 19 Sep 2025 00:16

Instrument :

BNA_N

ClientSampleId :

PB169693BS

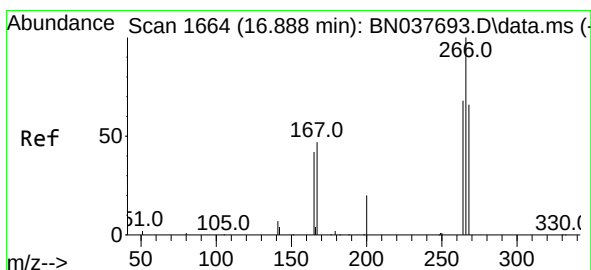
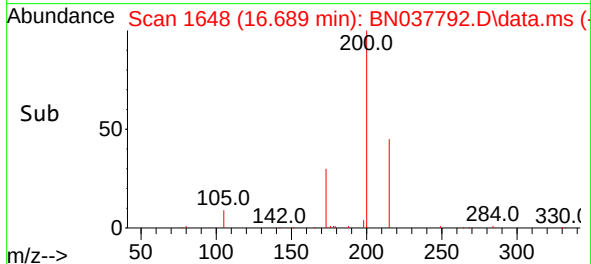
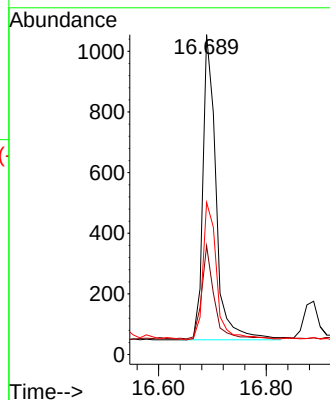
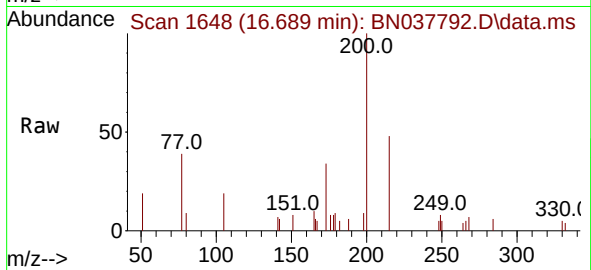
Tgt Ion:200 Resp: 1710

Ion Ratio Lower Upper

200 100

173 34.0 21.4 32.2#

215 47.6 39.2 58.8



#24

Pentachlorophenol

Concen: 0.515 ng

RT: 16.888 min Scan# 1664

Delta R.T. -0.000 min

Lab File: BN037792.D

Acq: 19 Sep 2025 00:16

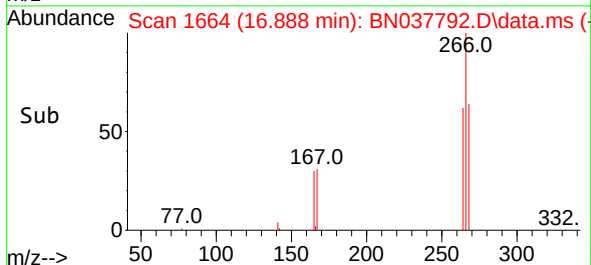
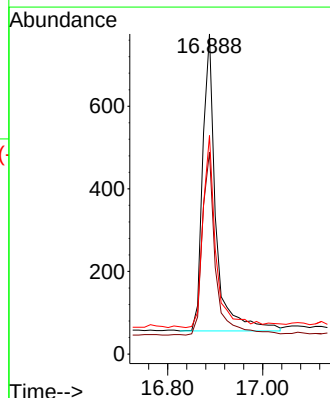
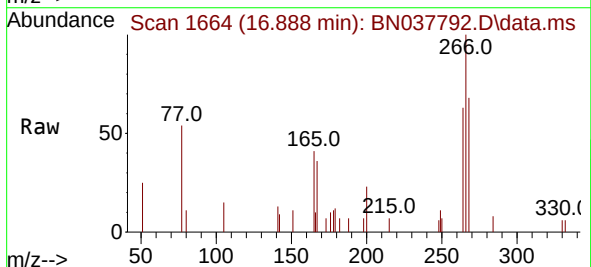
Tgt Ion:266 Resp: 1388

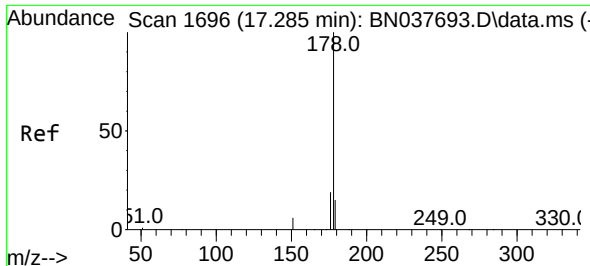
Ion Ratio Lower Upper

266 100

264 62.3 51.6 77.4

268 65.3 53.2 79.8

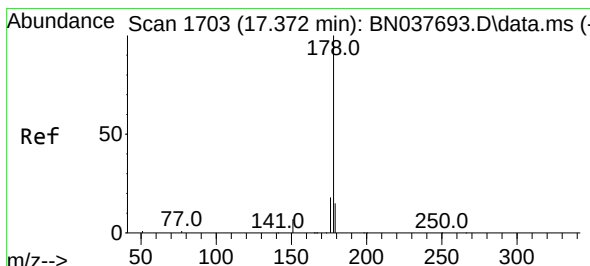
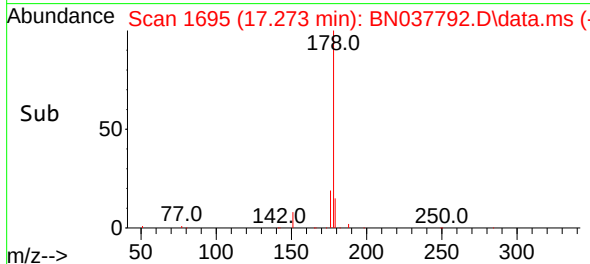
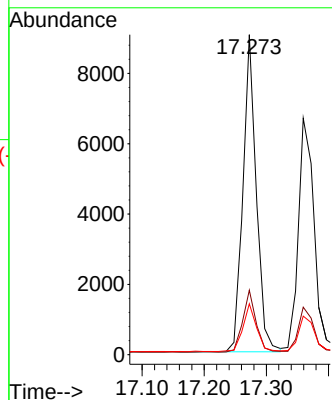
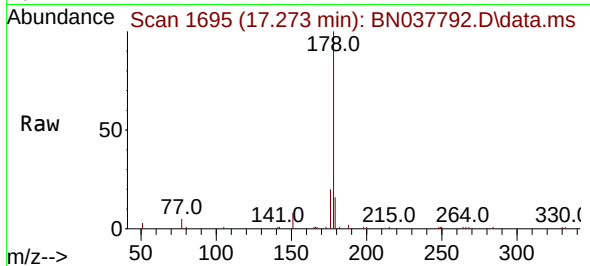




#25
 Phenanthrene
 Concen: 0.346 ng
 RT: 17.273 min Scan# 1702
 Delta R.T. -0.013 min
 Lab File: BN037792.D
 Acq: 19 Sep 2025 00:16

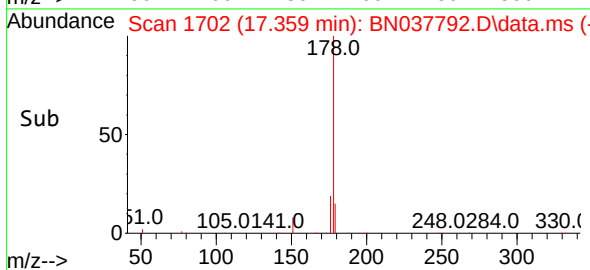
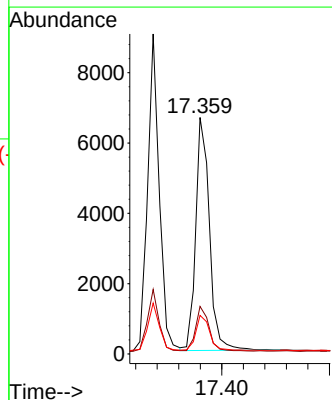
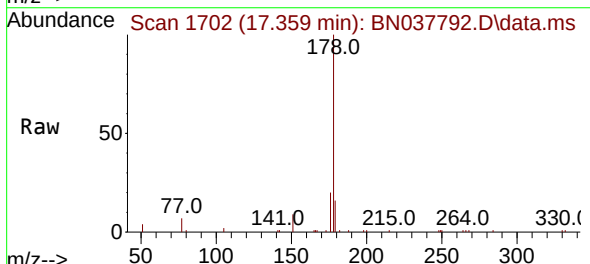
Instrument :
 BNA_N
 ClientSampleId :
 PB169693BS

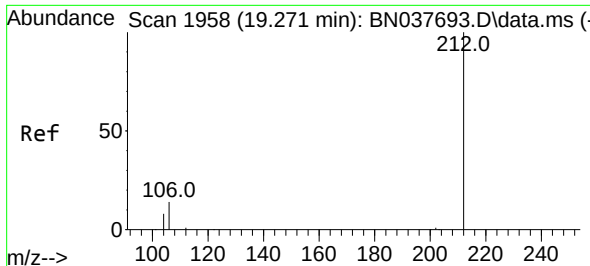
Tgt Ion:178 Resp: 13505
 Ion Ratio Lower Upper
 178 100
 176 19.4 15.3 22.9
 179 15.3 12.2 18.2



#26
 Anthracene
 Concen: 0.340 ng
 RT: 17.359 min Scan# 1702
 Delta R.T. -0.013 min
 Lab File: BN037792.D
 Acq: 19 Sep 2025 00:16

Tgt Ion:178 Resp: 11748
 Ion Ratio Lower Upper
 178 100
 176 19.0 14.6 22.0
 179 15.4 12.2 18.4

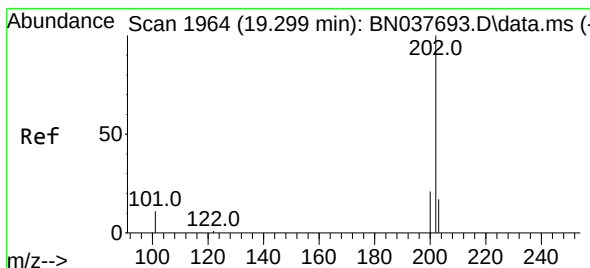
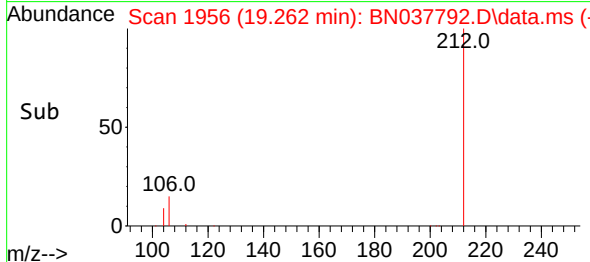
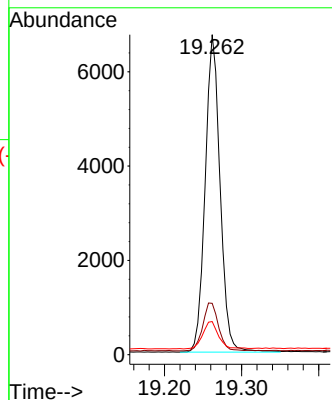
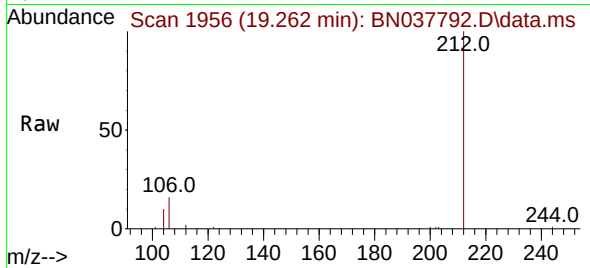




#27
Fluoranthene-d10
Concen: 0.291 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

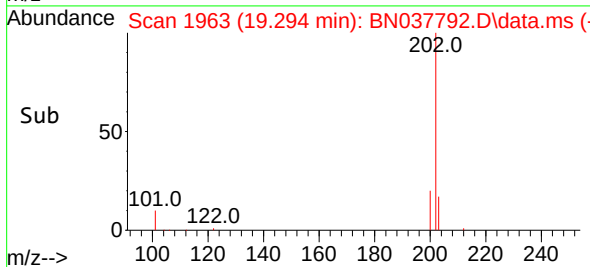
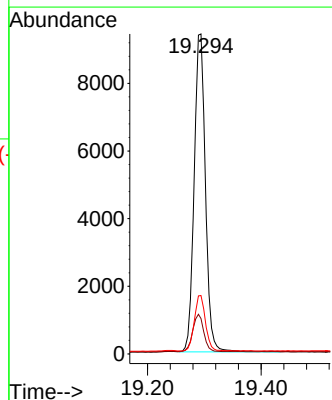
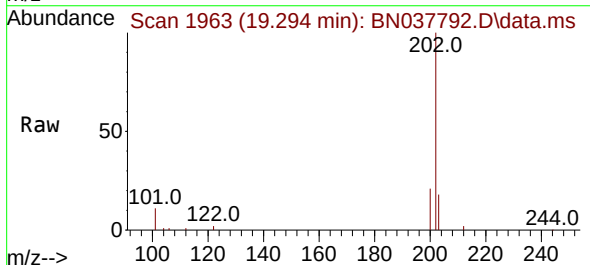
Instrument :
BNA_N
ClientSampleId :
PB169693BS

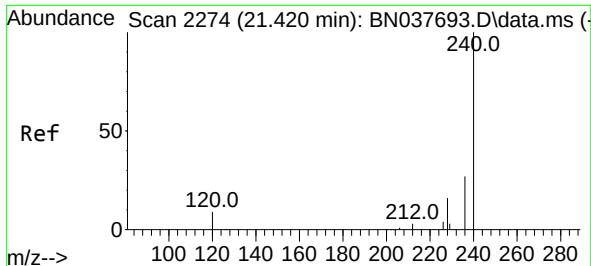
Tgt Ion:212 Resp: 9050
Ion Ratio Lower Upper
212 100
106 15.8 12.2 18.2
104 9.2 6.9 10.3



#28
Fluoranthene
Concen: 0.302 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:202 Resp: 12912
Ion Ratio Lower Upper
202 100
101 11.8 9.3 13.9
203 17.3 13.7 20.5

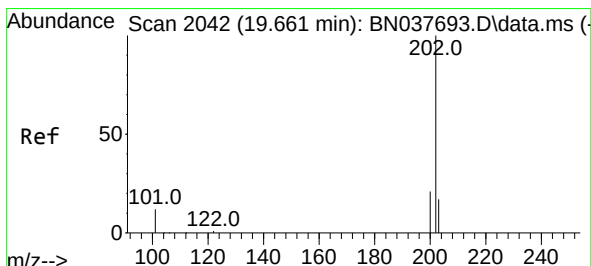
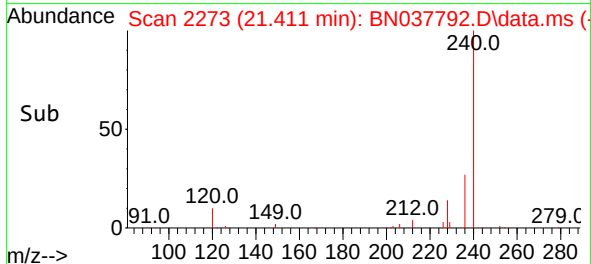
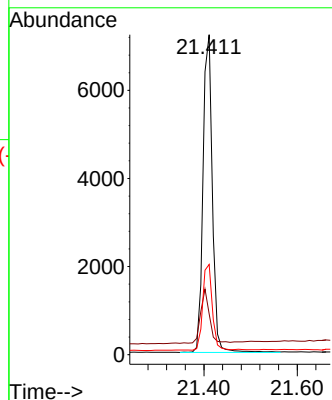
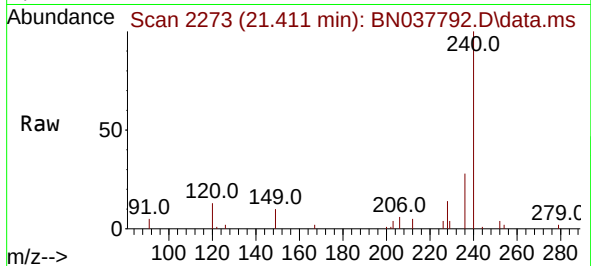




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

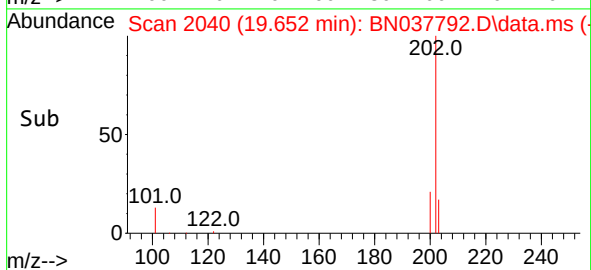
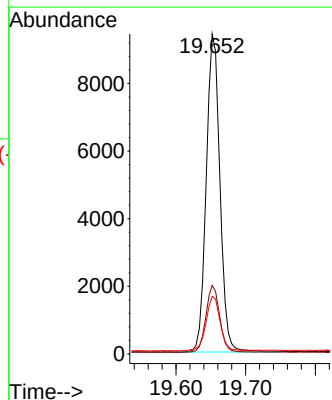
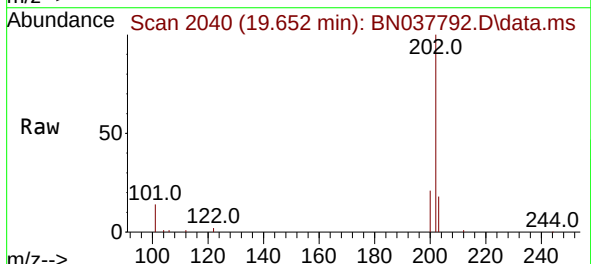
Instrument :
BNA_N
ClientSampleId :
PB169693BS

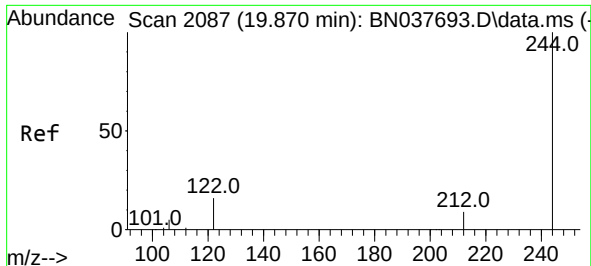
Tgt Ion:240 Resp: 10095
Ion Ratio Lower Upper
240 100
120 12.7 9.2 13.8
236 28.2 22.6 33.8



#30
Pyrene
Concen: 0.325 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

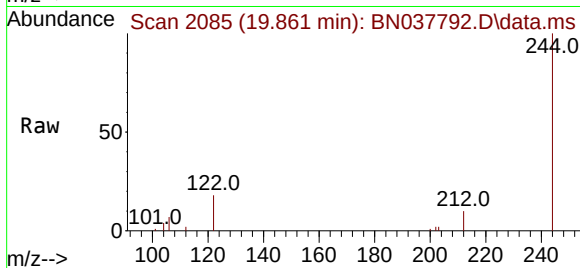
Tgt Ion:202 Resp: 12854
Ion Ratio Lower Upper
202 100
200 21.0 16.8 25.2
203 17.5 14.3 21.5



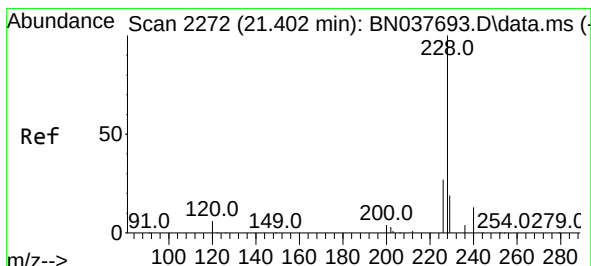
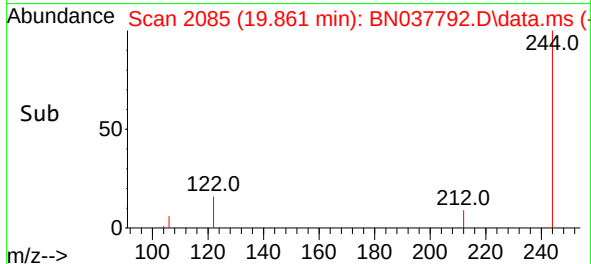
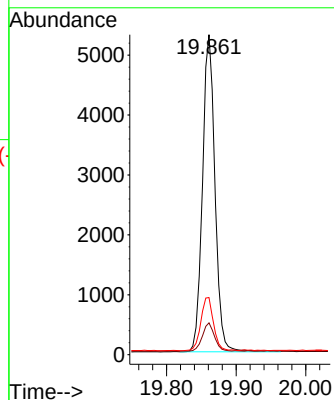


#31
 Terphenyl-d14
 Concen: 0.322 ng
 RT: 19.861 min Scan# 2085
 Delta R.T. -0.009 min
 Lab File: BN037792.D
 Acq: 19 Sep 2025 00:16

Instrument :
 BNA_N
 ClientSampleId :
 PB169693BS

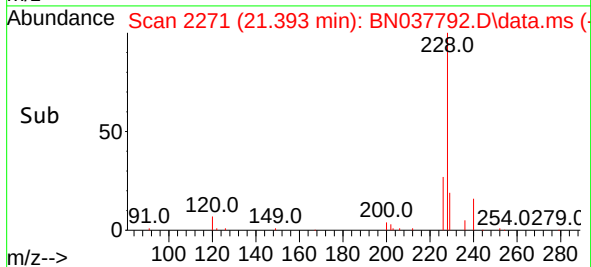
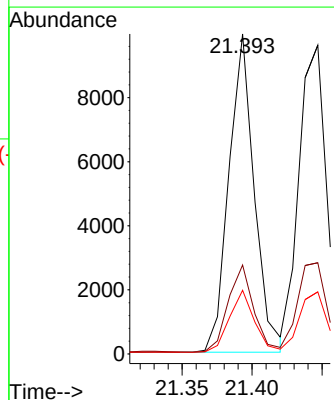
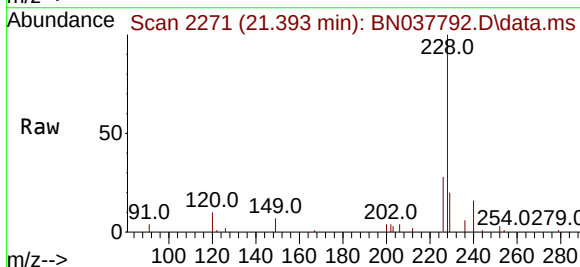


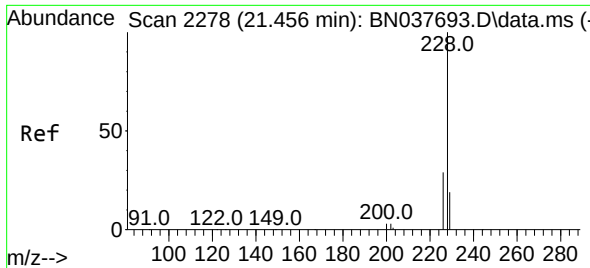
Tgt Ion:244 Resp: 6591
 Ion Ratio Lower Upper
 244 100
 212 10.0 7.5 11.3
 122 17.8 13.2 19.8



#32
 Benzo(a)anthracene
 Concen: 0.356 ng
 RT: 21.393 min Scan# 2271
 Delta R.T. -0.009 min
 Lab File: BN037792.D
 Acq: 19 Sep 2025 00:16

Tgt Ion:228 Resp: 12540
 Ion Ratio Lower Upper
 228 100
 226 27.8 22.2 33.2
 229 19.9 15.8 23.6

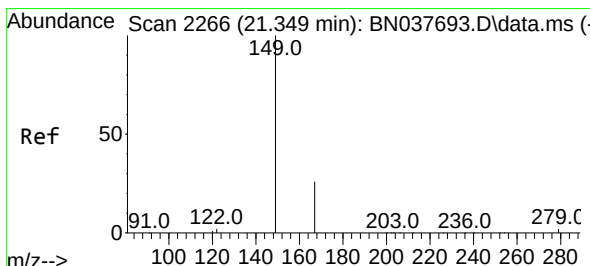
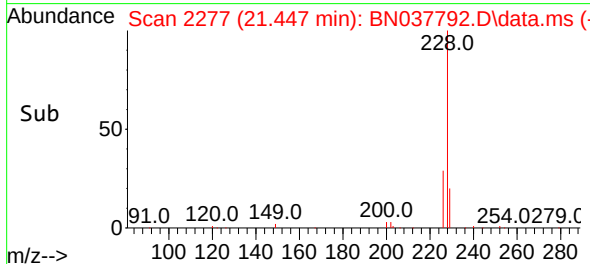
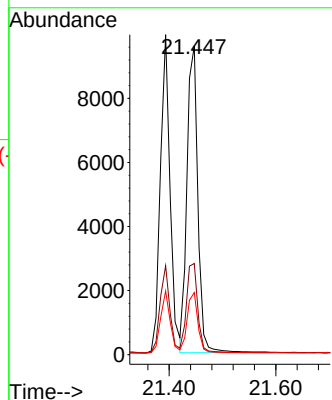
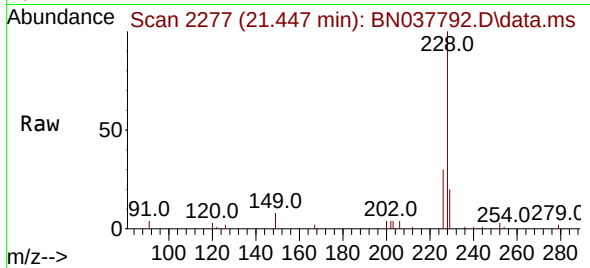




#33
Chrysene
Concen: 0.359 ng
RT: 21.447 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

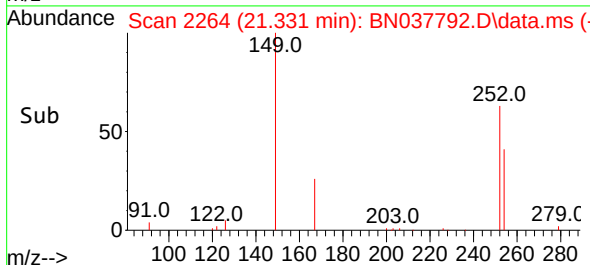
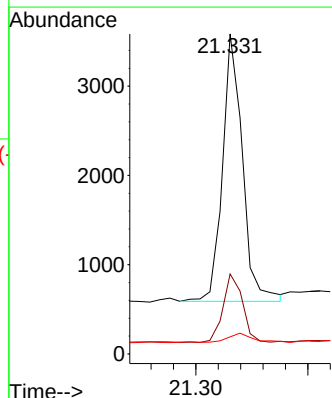
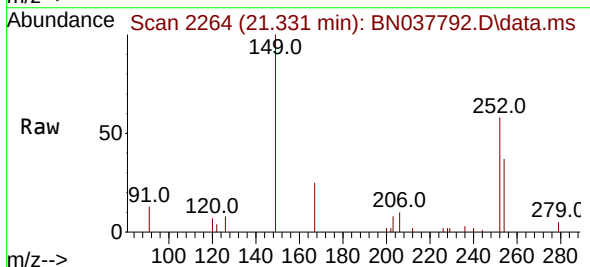
Instrument :
BNA_N
ClientSampleId :
PB169693BS

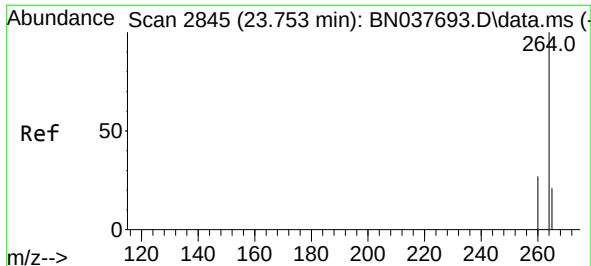
Tgt Ion:	228	Resp:	13567
Ion Ratio	Lower	Upper	
228	100		
226	29.5	23.5	35.3
229	20.1	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.355 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

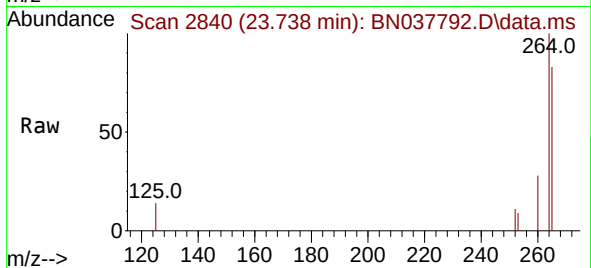
Tgt Ion:	149	Resp:	3708
Ion Ratio	Lower	Upper	
149	100		
167	25.0	20.8	31.2
279	4.3	3.3	4.9



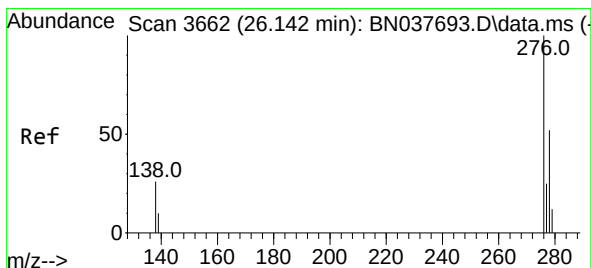
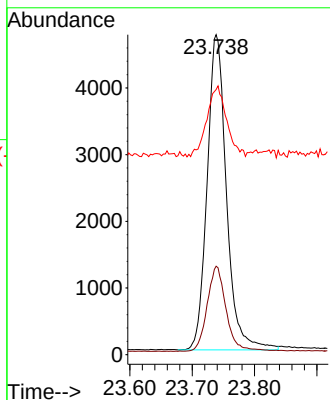
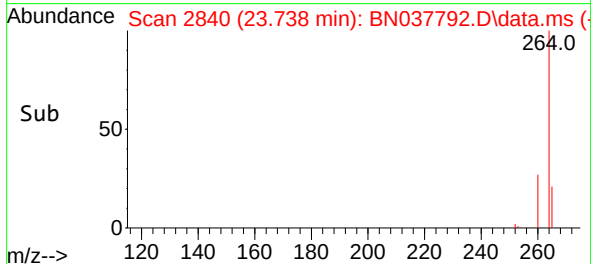


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.738 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

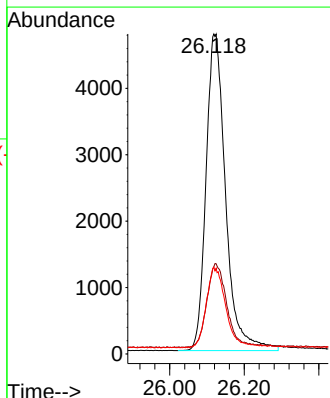
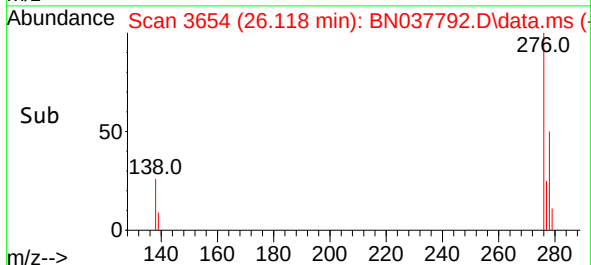
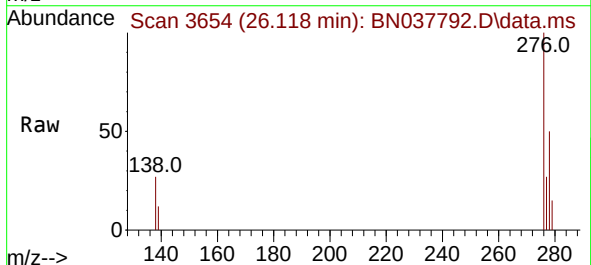


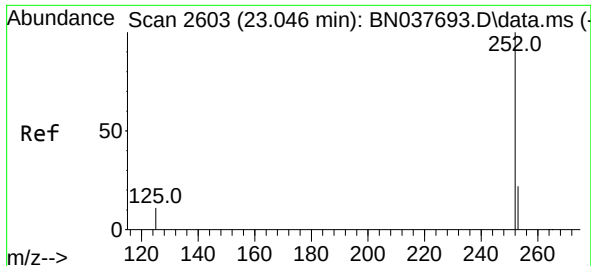
Tgt Ion:264 Resp: 10200
Ion Ratio Lower Upper
264 100
260 27.6 21.8 32.8
265 82.9 39.4 59.2#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.407 ng
RT: 26.118 min Scan# 3654
Delta R.T. -0.024 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:276 Resp: 17423
Ion Ratio Lower Upper
276 100
138 27.0 21.9 32.9
277 25.2 20.1 30.1

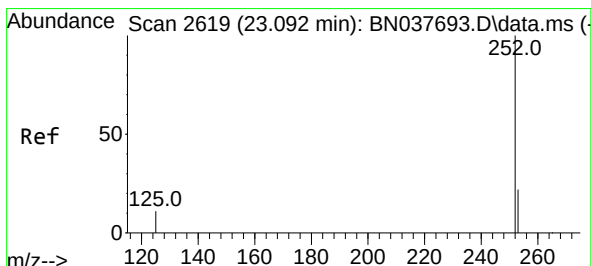
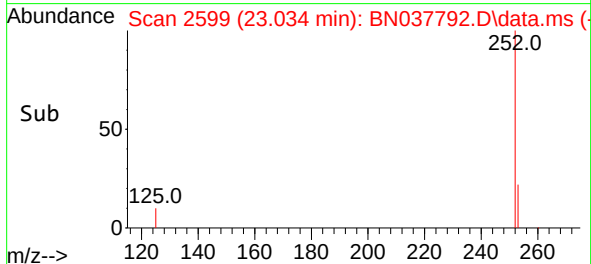
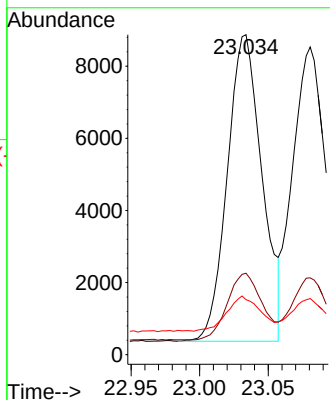
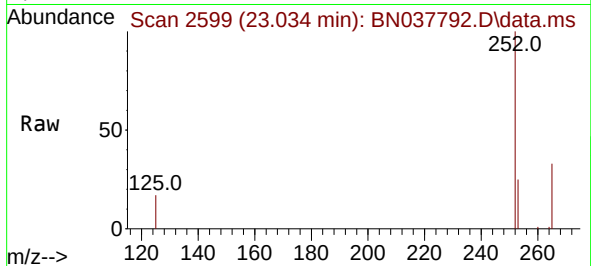




#37
Benzo(b)fluoranthene
Concen: 0.372 ng
RT: 23.034 min Scan# 2599
Delta R.T. -0.012 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

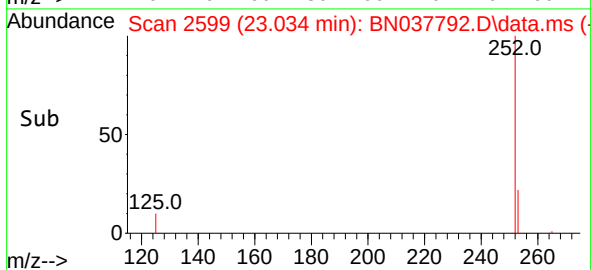
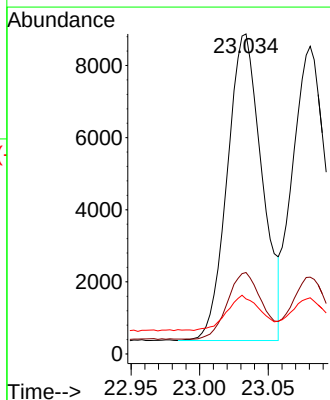
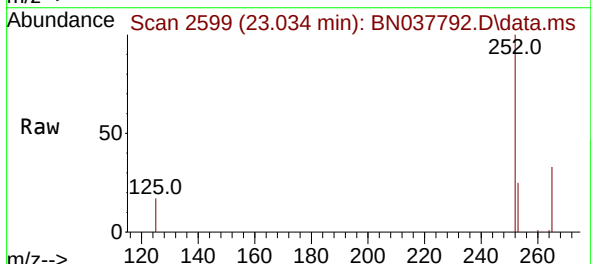
Instrument :
BNA_N
ClientSampleId :
PB169693BS

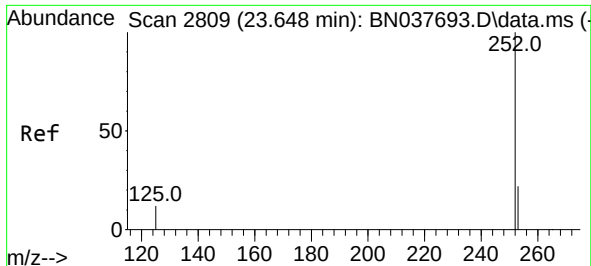
Tgt Ion:252 Resp: 14955
Ion Ratio Lower Upper
252 100
253 25.5 19.4 29.2
125 17.2 11.2 16.8#



#38
Benzo(k)fluoranthene
Concen: 0.365 ng
RT: 23.034 min Scan# 2599
Delta R.T. -0.059 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:252 Resp: 14955
Ion Ratio Lower Upper
252 100
253 25.5 19.4 29.0
125 17.2 11.6 17.4

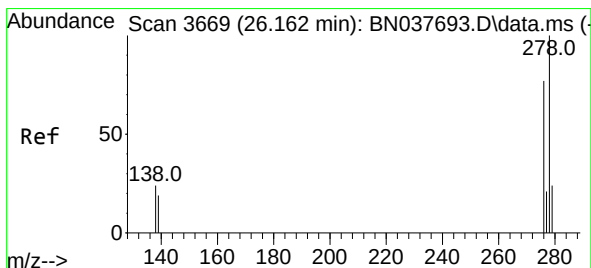
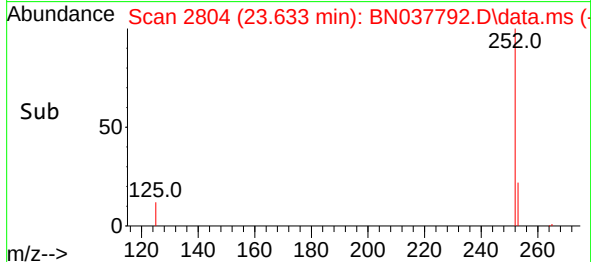
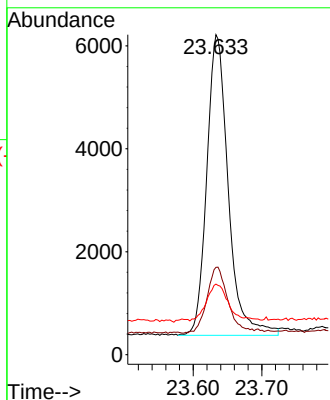
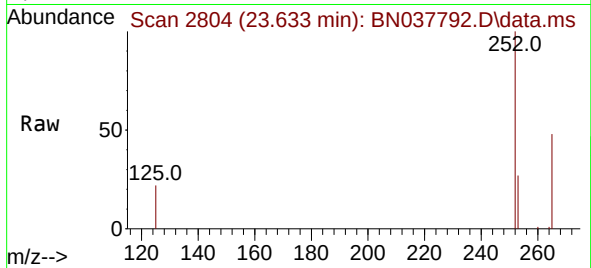




#39
Benzo(a)pyrene
Concen: 0.395 ng
RT: 23.633 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

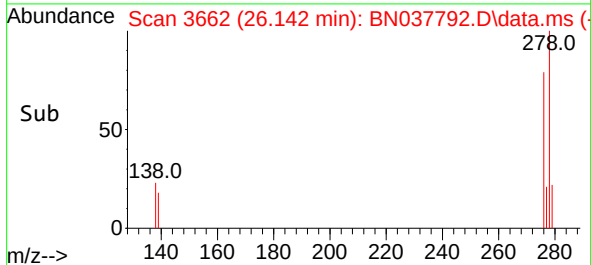
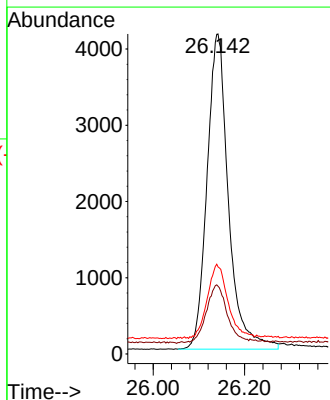
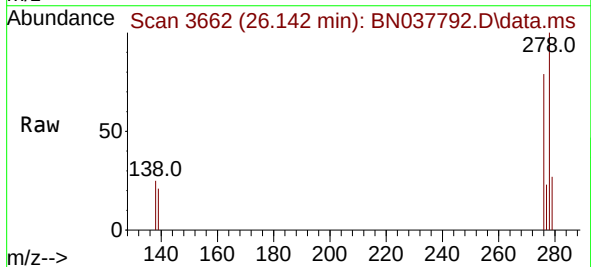
Instrument :
BNA_N
ClientSampleId :
PB169693BS

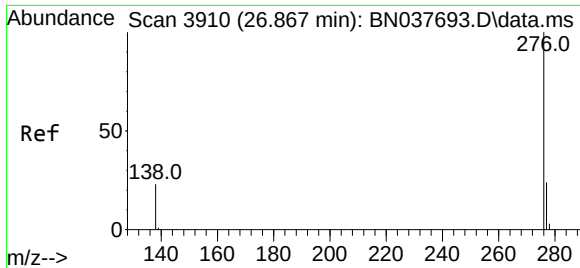
Tgt Ion:252 Resp: 12714
Ion Ratio Lower Upper
252 100
253 27.3 20.8 31.2
125 22.1 13.9 20.9#



#40
Dibenzo(a,h)anthracene
Concen: 0.394 ng
RT: 26.142 min Scan# 3662
Delta R.T. -0.021 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:278 Resp: 13475
Ion Ratio Lower Upper
278 100
139 21.2 17.8 26.6
279 27.2 22.0 33.0





#41
Benzo(g,h,i)perylene
Concen: 0.398 ng
RT: 26.843 min Scan# 3910
Delta R.T. -0.024 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion:276 Resp: 15272
Ion Ratio Lower Upper
276 100
277 25.6 20.6 31.0
138 24.8 20.2 30.2

