

DATA PACKAGE
SEMI-VOLATILE ORGANICS

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

AECOM TECHNICAL SERVICES, INC.

13640 Briarwick Drive

Austin, TX - 78729

Phone No: 512-454-4797

ORDER ID : Q3127

ATTENTION : Eleanor Vivadou



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q3127

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

Client : AECOM Technical Services, Inc.

Lab Sample Number

Q3127-01
Q3127-02
Q3127-03
Q3127-04
Q3127-05
Q3127-06
Q3127-07
Q3127-08
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Q3127-15
Q3127-16
Q3127-17
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Q3127-19

Client Sample Number

DUP08-20250915
RE131D1-20250915
RE131D2-20250915
DUP07-20250915
TT158I1-20250915
TT180D2-20250915
RE135D2-20250915
RE132D6-20250916
TT101D2-20250915
TT101D-20250915
RE135D3-20250915
RE132D7-20250916
TT119S1-20250916
TT119S1-20250916MS
TT119S1-20250916MSD
TT101D1-20250915
TB06-20250912
BPOW1-8-20250917
BPOW1-7-20250917

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.

APPROVED

Signature : — *By Nimisha Pandya, QA/QC Supervisor at 9:45 am, Oct 01, 2025*

Date: 9/29/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

AECOM Technical Services, Inc.

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

Project # N/A

Order ID # Q3127

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

18 Water samples were received on 09/17/2025.

B. Parameters

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

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The MS recoveries met the requirements for all compounds.

The MSD recoveries met the requirements for all compounds.

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.

Samples RE131D1-20250915, RE131D2-20250915, DUP07-20250915, RE132D6-20250916 and TT101D1-20250915 were diluted due to high concentrations.

E. Additional Comments:

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.



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

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_____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 9:45 am, Oct 01, 2025

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

ORDER ID: Q3127

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.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all compounds.			✓

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

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

ADDITIONAL COMMENTS:

Samples RE131D1-20250915, RE131D2-20250915, DUP07-20250915, RE132D6-20250916 and TT101D1-20250915 were diluted due to high concentrations.

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

The not QT review data is reported in the Miscellaneous.

QA REVIEW	APPROVED By Nimisha Pandya, QA/QC Supervisor at 9:45 am, Oct 01, 2025	Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3127

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: 09/29/2025

LAB CHRONICLE

OrderID:	Q3127	OrderDate:	9/17/2025 1:13:00 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
Q3127-01	DUP08-20250915	Water	SVOC-SIMGroup1	8270-Modified	09/15/25	09/18/25	09/19/25	09/17/25
Q3127-02	RE131D1-20250915	Water	SVOC-SIMGroup1	8270-Modified	09/15/25	09/18/25	09/19/25	09/17/25
Q3127-02DL	RE131D1-20250915D L	Water	SVOC-SIMGroup1	8270-Modified	09/15/25	09/18/25	09/22/25	09/17/25
Q3127-03	RE131D2-20250915	Water	SVOC-SIMGroup1	8270-Modified	09/15/25	09/18/25	09/19/25	09/17/25
Q3127-03DL	RE131D2-20250915D L	Water	SVOC-SIMGroup1	8270-Modified	09/15/25	09/18/25	09/22/25	09/17/25
Q3127-04	DUP07-20250915	Water	SVOC-SIMGroup1	8270-Modified	09/15/25	09/18/25	09/19/25	09/17/25
Q3127-04DL	DUP07-20250915DL	Water	SVOC-SIMGroup1	8270-Modified	09/15/25	09/18/25	09/22/25	09/17/25
Q3127-05	TT158I1-20250915	Water	SVOC-SIMGroup1	8270-Modified	09/15/25	09/18/25	09/20/25	09/17/25
Q3127-06	TT180D2-20250915	Water	SVOC-SIMGroup1	8270-Modified	09/15/25	09/18/25	09/20/25	09/17/25
Q3127-07	RE135D2-20250915	Water	SVOC-SIMGroup1	8270-Modified	09/15/25	09/18/25	09/20/25	09/17/25
Q3127-08	RE132D6-20250916	Water	SVOC-SIMGroup1	8270-Modified	09/16/25	09/18/25	09/20/25	09/17/25

LAB CHRONICLE

Q3127-08DL	RE132D6-20250916D L	Water		09/16/25		09/17/25
			SVOC-SIMGroup1	8270-Modified	09/18/25	09/22/25
Q3127-09	TT101D2-20250915	Water		09/15/25		09/17/25
			SVOC-SIMGroup1	8270-Modified	09/18/25	09/20/25
Q3127-10	TT101D-20250915	Water		09/15/25		09/17/25
			SVOC-SIMGroup1	8270-Modified	09/18/25	09/20/25
Q3127-11	RE135D3-20250915	Water		09/15/25		09/17/25
			SVOC-SIMGroup1	8270-Modified	09/18/25	09/20/25
Q3127-12	RE132D7-20250916	Water		09/16/25		09/17/25
			SVOC-SIMGroup1	8270-Modified	09/18/25	09/20/25
Q3127-13	TT119S1-20250916	Water		09/16/25		09/17/25
			SVOC-SIMGroup1	8270-Modified	09/18/25	09/19/25
Q3127-16	TT101D2-20250915	Water		09/15/25		09/17/25
			SVOC-SIMGroup1	8270-Modified	09/18/25	09/20/25
Q3127-16DL	TT101D2-20250915DL	Water		09/15/25		09/17/25
			SVOC-SIMGroup1	8270-Modified	09/18/25	09/22/25
Q3127-18	BPOW1-8-20250917	Water		09/17/25		09/17/25
			SVOC-SIMGroup1	8270-Modified	09/18/25	09/20/25
Q3127-19	BPOW1-7-20250917	Water		09/17/25		09/17/25
			SVOC-SIMGroup1	8270-Modified	09/18/25	09/20/25

Hit Summary Sheet SW-846

SDG No.: Q3127

Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : DUP08-20250915									
Q3127-01	DUP08-20250915	WATER	1,4-Dioxane	4.800		0.07	0.2	0.2	ug/L
			Total Svoc :			4.80			
			Total Concentration:			4.80			
Client ID : RE131D1-20250915									
Q3127-02	RE131D1-20250915	WATER	1,4-Dioxane	5.300	E	0.07	0.2	0.2	ug/L
			Total Svoc :			5.30			
			Total Concentration:			5.30			
Client ID : RE131D1-20250915DL									
Q3127-02DL	RE131D1-20250915DL	WATER	1,4-Dioxane	6.700	D	0.13	0.4	0.4	ug/L
			Total Svoc :			6.70			
			Total Concentration:			6.70			
Client ID : RE131D2-20250915									
Q3127-03	RE131D2-20250915	WATER	1,4-Dioxane	7.500	E	0.07	0.2	0.2	ug/L
			Total Svoc :			7.50			
			Total Concentration:			7.50			
Client ID : RE131D2-20250915DL									
Q3127-03DL	RE131D2-20250915DL	WATER	1,4-Dioxane	7.900	D	0.13	0.4	0.4	ug/L
			Total Svoc :			7.90			
			Total Concentration:			7.90			
Client ID : DUP07-20250915									
Q3127-04	DUP07-20250915	WATER	1,4-Dioxane	5.300	E	0.07	0.2	0.2	ug/L
			Total Svoc :			5.30			
			Total Concentration:			5.30			
Client ID : DUP07-20250915DL									
Q3127-04DL	DUP07-20250915DL	WATER	1,4-Dioxane	6.700	D	0.13	0.4	0.4	ug/L
			Total Svoc :			6.70			
			Total Concentration:			6.70			
Client ID : TT180D2-20250915									
Q3127-06	TT180D2-20250915	WATER	1,4-Dioxane	4.700		0.07	0.21	0.21	ug/L
			Total Svoc :			4.70			
			Total Concentration:			4.70			
Client ID : RE135D2-20250915									
Q3127-07	RE135D2-20250915	WATER	1,4-Dioxane	0.150	J	0.07	0.2	0.2	ug/L
			Total Svoc :			0.15			

Hit Summary Sheet
SW-846

SDG No.: Q3127
Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
			Total Concentration:	0.15					
Client ID :	RE132D6-20250916								
Q3127-08	RE132D6-20250916	WATER	1,4-Dioxane	5.500	E	0.07	0.2	0.2	ug/L
			Total Svoc :	5.50					
			Total Concentration:	5.50					
Client ID :	RE132D6-20250916DL								
Q3127-08DL	RE132D6-20250916DL	WATER	1,4-Dioxane	5.700	D	0.13	0.41	0.41	ug/L
			Total Svoc :	5.70					
			Total Concentration:	5.70					
Client ID :	TT101D2-20250915								
Q3127-09	TT101D2-20250915	WATER	1,4-Dioxane	3.100		0.07	0.2	0.2	ug/L
			Total Svoc :	3.10					
			Total Concentration:	3.10					
Client ID :	TT101D-20250915								
Q3127-10	TT101D-20250915	WATER	1,4-Dioxane	4.000		0.07	0.2	0.2	ug/L
			Total Svoc :	4.00					
			Total Concentration:	4.00					
Client ID :	RE135D3-20250915								
Q3127-11	RE135D3-20250915	WATER	1,4-Dioxane	0.230		0.07	0.2	0.2	ug/L
			Total Svoc :	0.23					
			Total Concentration:	0.23					
Client ID :	RE132D7-20250916								
Q3127-12	RE132D7-20250916	WATER	1,4-Dioxane	2.900		0.07	0.2	0.2	ug/L
			Total Svoc :	2.90					
			Total Concentration:	2.90					
Client ID :	TT101D2-20250915								
Q3127-16	TT101D2-20250915	WATER	1,4-Dioxane	5.000	E	0.07	0.2	0.2	ug/L
			Total Svoc :	5.00					
			Total Concentration:	5.00					
Client ID :	TT101D2-20250915DL								
Q3127-16DL	TT101D2-20250915DL	WATER	1,4-Dioxane	5.100	D	0.13	0.4	0.4	ug/L
			Total Svoc :	5.10					
			Total Concentration:	5.10					



QC SUMMARY

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- 18

Surrogate Summary

SW-846

SDG No.: Q3127

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB169743BL	PB169743BL	2-Methylnaphthalene-d10	0.4	0.31	78		30	150
		Fluoranthene-d10	0.4	0.33	83		30	150
		Nitrobenzene-d5	0.4	0.37	92		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.32	80		58	132
PB169743BS	PB169743BS	2-Methylnaphthalene-d10	0.4	0.34	84		30	150
		Fluoranthene-d10	0.4	0.33	82		30	150
		Nitrobenzene-d5	0.4	0.37	93		55	111
		2-Fluorobiphenyl	0.4	0.38	95		53	106
		Terphenyl-d14	0.4	0.31	77		58	132
Q3127-01	DUP08-20250915	2-Methylnaphthalene-d10	0.4	0.28	71		30	150
		Fluoranthene-d10	0.4	0.36	89		30	150
		Nitrobenzene-d5	0.4	0.32	80		55	111
		2-Fluorobiphenyl	0.4	0.33	81		53	106
		Terphenyl-d14	0.4	0.38	96		58	132
Q3127-02	RE131D1-20250915	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.39	97		55	111
		2-Fluorobiphenyl	0.4	0.32	80		53	106
		Terphenyl-d14	0.4	0.38	94		58	132
Q3127-02DL	RE131D1-20250915DL	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.37	94		30	150
		Nitrobenzene-d5	0.4	0.36	89		55	111
		2-Fluorobiphenyl	0.4	0.35	86		53	106
		Terphenyl-d14	0.4	0.38	96		58	132
Q3127-03	RE131D2-20250915	2-Methylnaphthalene-d10	0.4	0.28	69		30	150
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.32	80		55	111
		2-Fluorobiphenyl	0.4	0.31	79		53	106
		Terphenyl-d14	0.4	0.35	88		58	132
Q3127-03DL	RE131D2-20250915DL	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.34	84		53	106
		Terphenyl-d14	0.4	0.38	95		58	132
Q3127-04	DUP07-20250915	2-Methylnaphthalene-d10	0.4	0.28	71		30	150
		Fluoranthene-d10	0.4	0.34	85		30	150
		Nitrobenzene-d5	0.4	0.33	83		55	111
		2-Fluorobiphenyl	0.4	0.33	82		53	106
		Terphenyl-d14	0.4	0.39	96		58	132
Q3127-04DL	DUP07-20250915DL	2-Methylnaphthalene-d10	0.4	0.30	75		30	150
		Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.38	94		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.40	101		58	132
Q3127-05	TT158I1-20250915	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.36	91		30	150
		Nitrobenzene-d5	0.4	0.34	84		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.40	100		58	132
Q3127-06	TT180D2-20250915	2-Methylnaphthalene-d10	0.4	0.27	67		30	150

Surrogate Summary

SW-846

SDG No.: Q3127

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3127-06	TT180D2-20250915	Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.33	83		55	111
		2-Fluorobiphenyl	0.4	0.31	78		53	106
		Terphenyl-d14	0.4	0.38	95		58	132
Q3127-07	RE135D2-20250915	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.37	94		30	150
		Nitrobenzene-d5	0.4	0.33	83		55	111
		2-Fluorobiphenyl	0.4	0.32	79		53	106
Q3127-08	RE132D6-20250916	Terphenyl-d14	0.4	0.40	100		58	132
		2-Methylnaphthalene-d10	0.4	0.24	61		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.31	77		55	111
Q3127-08DL	RE132D6-20250916DL	2-Fluorobiphenyl	0.4	0.27	68		53	106
		Terphenyl-d14	0.4	0.39	97		58	132
		2-Methylnaphthalene-d10	0.4	0.25	62		30	150
		Fluoranthene-d10	0.4	0.39	97		30	150
Q3127-09	TT101D2-20250915	Nitrobenzene-d5	0.4	0.33	83		55	111
		2-Fluorobiphenyl	0.4	0.29	72		53	106
		Terphenyl-d14	0.4	0.40	100		58	132
		2-Methylnaphthalene-d10	0.4	0.29	72		30	150
Q3127-10	TT101D-20250915	Fluoranthene-d10	0.4	0.37	93		30	150
		Nitrobenzene-d5	0.4	0.36	89		55	111
		2-Fluorobiphenyl	0.4	0.35	86		53	106
		Terphenyl-d14	0.4	0.41	101		58	132
Q3127-11	RE135D3-20250915	2-Methylnaphthalene-d10	0.4	0.23	58		30	150
		Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.30	74		55	111
		2-Fluorobiphenyl	0.4	0.28	71		53	106
Q3127-12	RE132D7-20250916	Terphenyl-d14	0.4	0.40	100		58	132
		2-Methylnaphthalene-d10	0.4	0.27	67		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.32	81		55	111
Q3127-13	TT119S1-20250916	2-Fluorobiphenyl	0.4	0.32	80		53	106
		Terphenyl-d14	0.4	0.41	103		58	132
		2-Methylnaphthalene-d10	0.4	0.25	62		30	150
		Fluoranthene-d10	0.4	0.37	93		30	150
Q3127-14MS	TT119S1-20250916MS	Nitrobenzene-d5	0.4	0.31	76		55	111
		2-Fluorobiphenyl	0.4	0.30	74		53	106
		Terphenyl-d14	0.4	0.41	102		58	132
		2-Methylnaphthalene-d10	0.4	0.30	75		30	150
Q3127-15MSD	TT119S1-20250916MSD	Fluoranthene-d10	0.4	0.38	95		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.31	78		53	106
		Terphenyl-d14	0.4	0.42	104		58	132
Q3127-14MS	TT119S1-20250916MS	2-Methylnaphthalene-d10	0.4	0.31	78		30	150
		Fluoranthene-d10	0.4	0.38	96		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.35	88		53	106
Q3127-15MSD	TT119S1-20250916MSD	Terphenyl-d14	0.4	0.40	101		58	132
		2-Methylnaphthalene-d10	0.4	0.31	77		30	150
Q3127-15MSD	TT119S1-20250916MSD	Fluoranthene-d10	0.4	0.37	93		30	150

Surrogate Summary

SW-846

SDG No.: Q3127

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3127-15MSD	TT119S1-20250916MSD	Nitrobenzene-d5	0.4	0.35	86		55	111
		2-Fluorobiphenyl	0.4	0.35	88		53	106
		Terphenyl-d14	0.4	0.42	104		58	132
Q3127-16	TT101D2-20250915	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.40	101		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
Q3127-16DL	TT101D2-20250915DL	2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.38	95		58	132
		2-Methylnaphthalene-d10	0.4	0.30	75		30	150
		Fluoranthene-d10	0.4	0.39	97		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.35	88		53	106
Q3127-18	BPOW1-8-20250917	Terphenyl-d14	0.4	0.41	101		58	132
		2-Methylnaphthalene-d10	0.4	0.26	66		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.34	85		55	111
		2-Fluorobiphenyl	0.4	0.31	76		53	106
		Terphenyl-d14	0.4	0.38	94		58	132
Q3127-19	BPOW1-7-20250917	2-Methylnaphthalene-d10	0.4	0.32	80		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.40	100		55	111
		2-Fluorobiphenyl	0.4	0.37	92		53	106
		Terphenyl-d14	0.4	0.41	103		58	132

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.:

Q3127

Analytical Method:

SW8270-Modified

Client:

AECOM Technical Services, Inc.

DataFile:

BN037809.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q3127-14MS	Client Sample ID:	TT119S1-20250916MS								
1,4-Dioxane	0.4	0	0.41	ug/L	103				70	130	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3127

Analytical Method: SW8270-Modified

Client: AECOM Technical Services, Inc.

DataFile: BN037810.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q3127-15MSD	Client Sample ID:	TT119S1-20250916MSD								
1,4-Dioxane	0.4	0	0.35	ug/L	88		16		70	130	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3127</u>	Analytical Method:	<u>8270-Modified</u>
Client:	<u>AECOM Technical Services, Inc.</u>	DataFile:	<u>BN037829.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB169743BS	1,4-Dioxane	0.4	0.32	ug/L	80				70	130		

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB169743BL

Lab Name: Alliance

Contract: AECO15

Lab Code: ACE

SDG NO.: Q3127

Lab File ID: BN037850.D

Lab Sample ID: PB169743BL

Instrument ID: BNA_N

Date Extracted: 09/18/2025

Matrix: (soil/water) Water

Date Analyzed: 09/22/2025

Level: (low/med) LOW

Time Analyzed: 10:55

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
TT119S1-20250916	Q3127-13	BN037808.D	09/19/2025
TT119S1-20250916MS	Q3127-14MS	BN037809.D	09/19/2025
TT119S1-20250916MSD	Q3127-15MSD	BN037810.D	09/19/2025
DUP08-20250915	Q3127-01	BN037825.D	09/19/2025
RE131D1-20250915	Q3127-02	BN037826.D	09/19/2025
PB169743BS	PB169743BS	BN037829.D	09/20/2025
RE131D2-20250915	Q3127-03	BN037827.D	09/19/2025
DUP07-20250915	Q3127-04	BN037828.D	09/19/2025
TT158I1-20250915	Q3127-05	BN037834.D	09/20/2025
TT180D2-20250915	Q3127-06	BN037835.D	09/20/2025
RE135D2-20250915	Q3127-07	BN037836.D	09/20/2025
RE132D6-20250916	Q3127-08	BN037837.D	09/20/2025
TT101D2-20250915	Q3127-09	BN037838.D	09/20/2025
TT101D-20250915	Q3127-10	BN037839.D	09/20/2025
RE135D3-20250915	Q3127-11	BN037840.D	09/20/2025
RE132D7-20250916	Q3127-12	BN037841.D	09/20/2025
TT101D2-20250915	Q3127-16	BN037842.D	09/20/2025
BPOW1-8-20250917	Q3127-18	BN037845.D	09/20/2025
BPOW1-7-20250917	Q3127-19	BN037846.D	09/20/2025

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.: Q3127
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: BN037794.D
Instrument ID: BNA_N

Contract: AECO15
SDG NO.: Q3127
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
TT119S1-20250916	Q3127-13	BN037808.D	09/19/2025	10:38
TT119S1-20250916MS	Q3127-14MS	BN037809.D	09/19/2025	11:50
TT119S1-20250916MSD	Q3127-15MSD	BN037810.D	09/19/2025	12:27
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.: Q3127
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
DUP08-20250915	Q3127-01	BN037825.D	09/19/2025	21:37
RE131D1-20250915	Q3127-02	BN037826.D	09/19/2025	22:13
RE131D2-20250915	Q3127-03	BN037827.D	09/19/2025	22:50
DUP07-20250915	Q3127-04	BN037828.D	09/19/2025	23:26
PB169743BS	PB169743BS	BN037829.D	09/20/2025	00:03
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.: Q3127
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
TT158I1-20250915	Q3127-05	BN037834.D	09/20/2025	03:48
TT180D2-20250915	Q3127-06	BN037835.D	09/20/2025	04:25
RE135D2-20250915	Q3127-07	BN037836.D	09/20/2025	05:01
RE132D6-20250916	Q3127-08	BN037837.D	09/20/2025	05:37
TT101D2-20250915	Q3127-09	BN037838.D	09/20/2025	06:13
TT101D-20250915	Q3127-10	BN037839.D	09/20/2025	06:50
RE135D3-20250915	Q3127-11	BN037840.D	09/20/2025	07:26
RE132D7-20250916	Q3127-12	BN037841.D	09/20/2025	08:02
TT101D2-20250915	Q3127-16	BN037842.D	09/20/2025	08:38
BPOW1-8-20250917	Q3127-18	BN037845.D	09/20/2025	10:27
BPOW1-7-20250917	Q3127-19	BN037846.D	09/20/2025	11:03
SSTDCCC0.4EC	SSTDCCC0.4	BN037847.D	09/20/2025	11:39



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037848.D
Instrument ID: BNA_N

Contract: AECO15
SDG NO.: Q3127
DFTPP Injection Date: 09/22/2025
DFTPP Injection Time: 08:59

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.5
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	78.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.1 (19.7) 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	BN037849.D	09/22/2025	10:19
PB169743BL	PB169743BL	BN037850.D	09/22/2025	10:55
RE131D1-20250915DL	Q3127-02DL	BN037853.D	09/22/2025	12:44
RE131D2-20250915DL	Q3127-03DL	BN037854.D	09/22/2025	13:20
DUP07-20250915DL	Q3127-04DL	BN037855.D	09/22/2025	13:56
RE132D6-20250916DL	Q3127-08DL	BN037856.D	09/22/2025	14:33
TT101D2-20250915DL	Q3127-16DL	BN037857.D	09/22/2025	15:09
SSTDCCC0.4EC	SSTDCCC0.4	BN037859.D	09/22/2025	16:39

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3127

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 TT119S1-20250916	5936	7.83	15845	10.64	6915	14.48
02 TT119S1-20250916MS	5852	7.83	15625	10.64	7051	14.48
03 TT119S1-20250916MSD	5675	7.83	15407	10.64	6857	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.: Q3127

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 TT119S1-20250916	12519	17.24	10592	21.41	10201	23.74
02 TT119S1-20250916MS	12911	17.22	12021	21.41	11515	23.74
03 TT119S1-20250916MSD	11592	17.22	10004	21.41	9737	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.: Q3127

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 DUP08-20250915	4541	7.83	11932	10.64	5027	14.48
02 RE131D1-20250915	5595	7.83	12577	10.64	5333	14.48
03 RE131D2-20250915	4301	7.83	11071	10.64	4603	14.48
04 DUP07-20250915	5353	7.83	14239	10.64	5937	14.48
05 PB169743BS	4918	7.83	12547	10.64	5131	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.: Q3127

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)

	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.						
01 DUP08-20250915	8716	17.22	7781	21.40	7494	23.73
02 RE131D1-20250915	9207	17.22	7688	21.40	7581	23.73
03 RE131D2-20250915	8412	17.22	8082	21.40	7770	23.74
04 DUP07-20250915	10146	17.22	8206	21.40	7941	23.73
05 PB169743BS	8052	17.22	7504	21.40	7479	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.: Q3127

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 TT158I1-20250915	6378	7.83	16488	10.63	6684	14.48
02 TT180D2-20250915	6064	7.83	15560	10.64	6417	14.48
03 RE135D2-20250915	5391	7.83	14016	10.63	5793	14.48
04 RE132D6-20250916	5840	7.83	15290	10.64	6642	14.48
05 TT101D2-20250915	5806	7.83	15130	10.63	6198	14.48
06 TT101D-20250915	5800	7.83	15024	10.63	6297	14.48
07 RE135D3-20250915	6083	7.83	16094	10.63	6777	14.48
08 RE132D7-20250916	5705	7.83	14784	10.63	6252	14.48
09 TT101D2-20250915	5292	7.83	13672	10.63	5762	14.48
10 BPOW1-8-20250917	6014	7.83	15872	10.63	6555	14.48
11 BPOW1-7-20250917	5584	7.83	14527	10.63	6076	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.: Q3127

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 TT158I1-20250915	11955	17.22	10371	21.40	9922	23.74
02 TT180D2-20250915	10868	17.22	9475	21.40	8893	23.74
03 RE135D2-20250915	10493	17.22	8896	21.40	8424	23.74
04 RE132D6-20250916	12889	17.22	11537	21.40	10995	23.74
05 TT101D2-20250915	10844	17.22	8801	21.41	8553	23.74
06 TT101D-20250915	11149	17.22	9464	21.40	8977	23.74
07 RE135D3-20250915	11688	17.22	9654	21.40	8997	23.74
08 RE132D7-20250916	10893	17.22	9428	21.40	9043	23.74
09 TT101D2-20250915	10516	17.22	9805	21.40	9100	23.74
10 BPOW1-8-20250917	10938	17.22	9081	21.40	8738	23.74
11 BPOW1-7-20250917	10584	17.22	9458	21.41	8871	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.: Q3127

Client ID : SSTDCCC0.4

Date Analyzed: 09/22/2025

Lab File ID: BN037849.D

Time Analyzed: 10:19

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	6007	7.833	15935	10.64	7024	14.48
UPPER LIMIT	12014	8.333	31870	11.137	14048	14.984
LOWER LIMIT	3003.5	7.333	7967.5	10.137	3512	13.984
EPA SAMPLE NO.						
01 PB169743BL	6064	7.83	15212	10.63	6032	14.48
02 RE131D1-20250915DL	5210	7.83	13414	10.63	5405	14.48
03 RE131D2-20250915DL	5543	7.83	14287	10.63	5844	14.48
04 DUP07-20250915DL	5382	7.83	14120	10.63	5769	14.48
05 RE132D6-20250916DL	5456	7.83	14189	10.63	5837	14.48
06 TT101D2-20250915DL	5466	7.83	14302	10.63	5898	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.: Q3127

Client ID: SSTDCCC0.4

Date Analyzed: 09/22/2025

Lab File ID: BN037849.D

Time Analyzed: 10:19

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	11177	17.223	8688	21.411	8600	23.738
UPPER LIMIT	22354	17.723	17376	21.911	17200	24.238
LOWER LIMIT	5588.5	16.723	4344	20.911	4300	23.238
EPA SAMPLE NO.						
01 PB169743BL	9991	17.22	9227	21.41	8954	23.74
02 RE131D1-20250915DL	9591	17.22	8310	21.40	7982	23.74
03 RE131D2-20250915DL	9811	17.22	8402	21.40	8112	23.74
04 DUP07-20250915DL	9844	17.22	7847	21.40	7550	23.74
05 RE132D6-20250916DL	11015	17.22	9607	21.40	9066	23.73
06 TT101D2-20250915DL	10257	17.22	8483	21.40	7996	23.73

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/15/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/17/25
Client Sample ID:	DUP08-20250915	SDG No.:	Q3127
Lab Sample ID:	Q3127-01	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
BN037825.D	1	09/18/25 11:35	09/19/25 21:37	PB169743

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.80		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		71%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		89%	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		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		96%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4540	7.826				
1146-65-2	Naphthalene-d8	11900	10.637				
15067-26-2	Acenaphthene-d10	5030	14.484				
1517-22-2	Phenanthrene-d10	8720	17.223				
1719-03-5	Chrysene-d12	7780	21.402				
1520-96-3	Perylene-d12	7490	23.733				

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 : BN037825.D
Acq On : 19 Sep 2025 21:37
Operator : RC/JU
Sample : Q3127-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP08-20250915

Quant Time: Sep 19 23:50:45 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

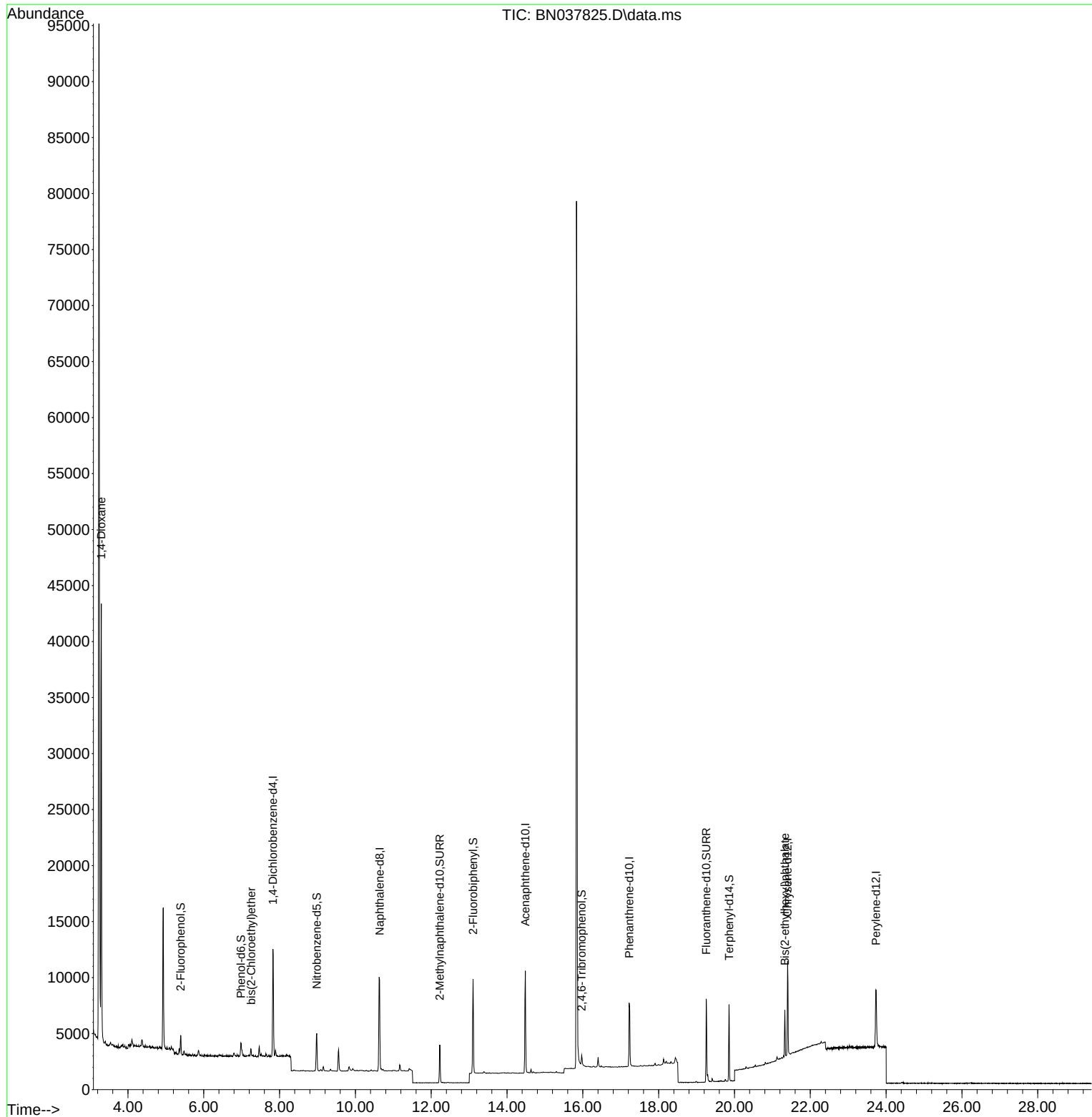
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.826	152	4541	0.400	ng	-0.01
7) Naphthalene-d8	10.637	136	11932	0.400	ng	#-0.01
13) Acenaphthene-d10	14.484	164	5027	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	8716	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	7781	0.400	ng	#-0.02
35) Perylene-d12	23.733	264	7494	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1369	0.131	ng	0.00
5) Phenol-d6	6.981	99	1015	0.075	ng	0.00
8) Nitrobenzene-d5	8.982	82	2793	0.320	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	4513	0.285	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	555	0.423	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	6856	0.326	ng	-0.01
27) Fluoranthene-d10	19.257	212	7781	0.356	ng	-0.01
31) Terphenyl-d14	19.856	244	6045	0.383	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	22773	4.815	ng	96
6) bis(2-Chloroethyl)ether	7.248	93	475	0.039	ng	95
34) Bis(2-ethylhexyl)phtha...	21.331	149	4028	0.501	ng	99

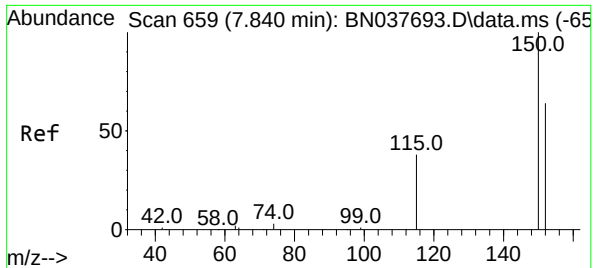
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037825.D
Acq On : 19 Sep 2025 21:37
Operator : RC/JU
Sample : Q3127-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP08-20250915

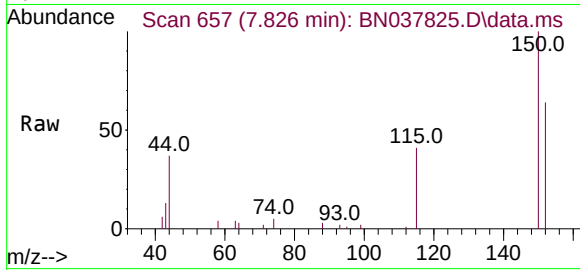
Quant Time: Sep 19 23:50:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



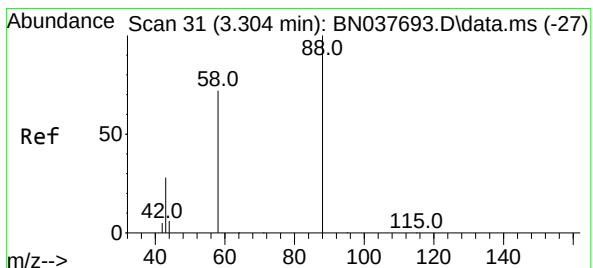
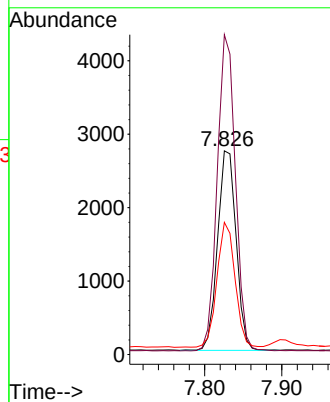
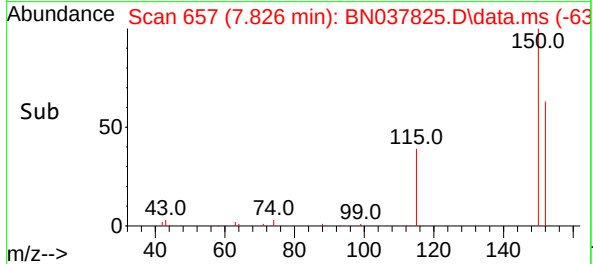


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 61
Delta R.T. -0.014 min
Lab File: BN037825.D
Acq: 19 Sep 2025 21:37

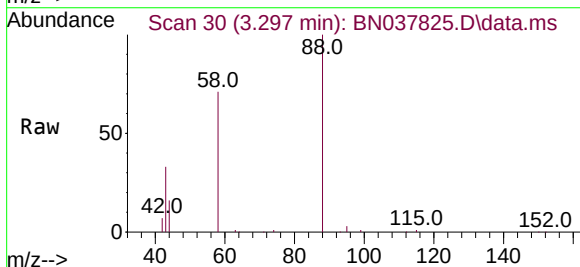
Instrument :
BNA_N
ClientSampleId :
DUP08-20250915



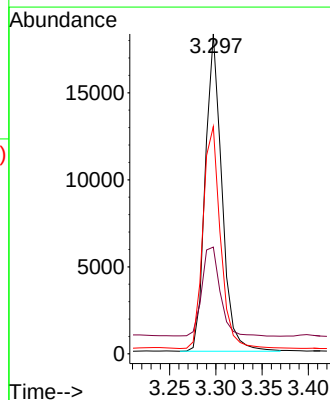
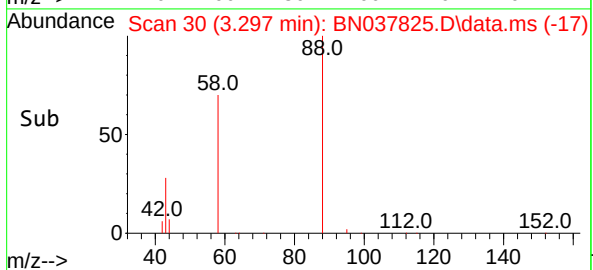
Tgt Ion:152 Resp: 4541
Ion Ratio Lower Upper
152 100
150 157.1 124.5 186.7
115 64.9 49.2 73.8

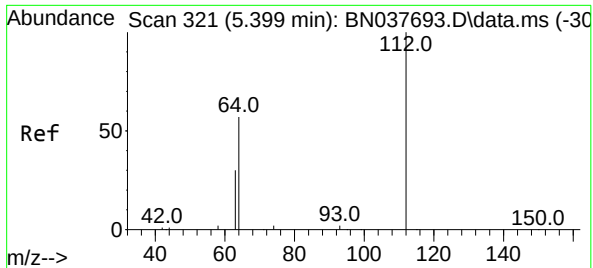


#2
1,4-Dioxane
Concen: 4.815 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037825.D
Acq: 19 Sep 2025 21:37



Tgt Ion: 88 Resp: 22773
Ion Ratio Lower Upper
88 100
43 31.0 26.8 40.2
58 73.5 61.9 92.9

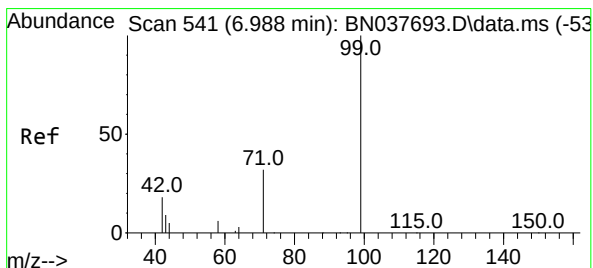
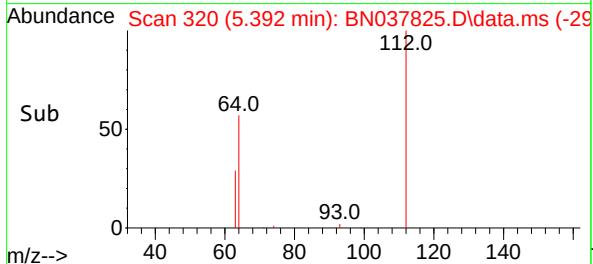
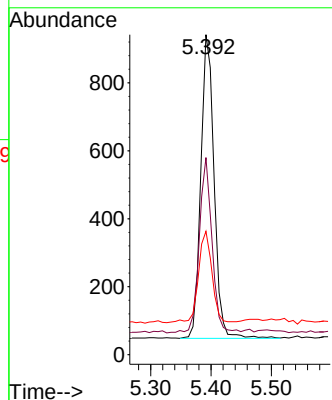
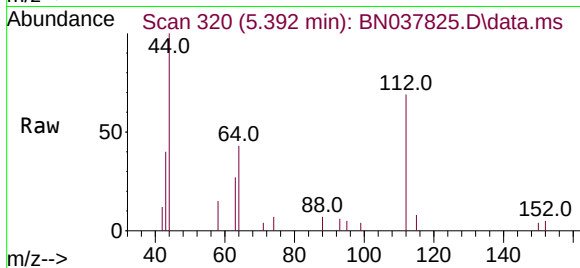




#4
2-Fluorophenol
Concen: 0.131 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037825.D
Acq: 19 Sep 2025 21:37

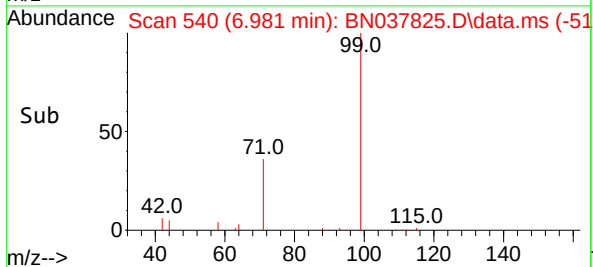
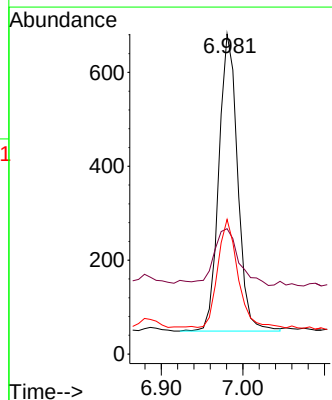
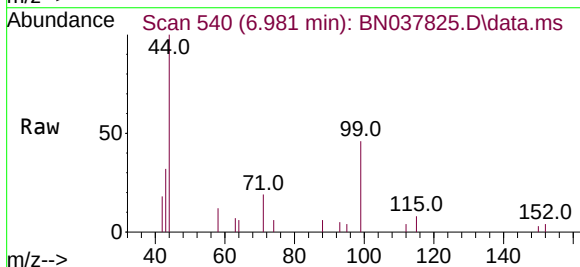
Instrument :
BNA_N
ClientSampleId :
DUP08-20250915

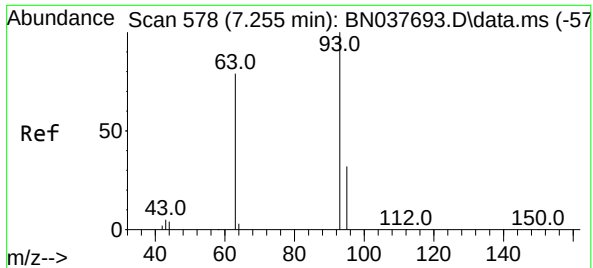
Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.7	44.9	67.3
63	30.8	24.7	37.1



#5
Phenol-d6
Concen: 0.075 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037825.D
Acq: 19 Sep 2025 21:37

Tgt Ion	Ratio	Lower	Upper
99	100		
42	25.2	16.6	24.8#
71	39.3	26.7	40.1

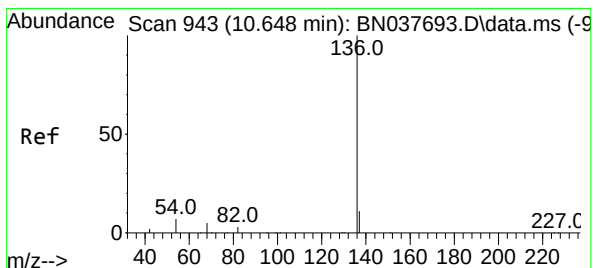
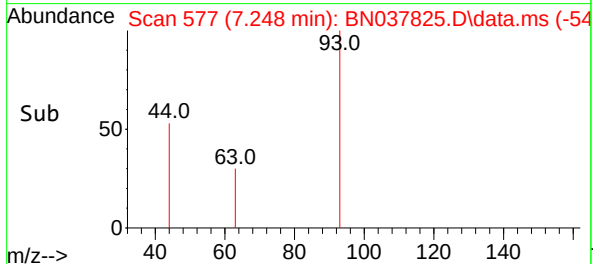
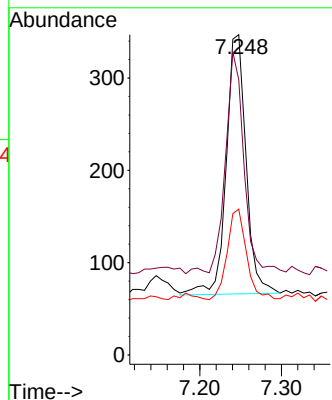
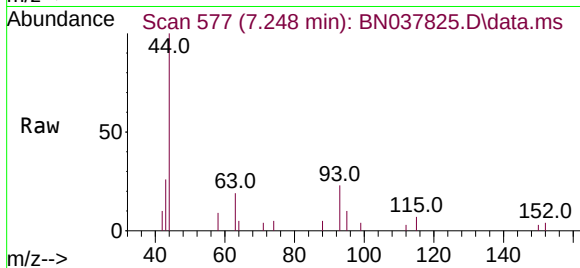




#6
bis(2-Chloroethyl)ether
Concen: 0.039 ng
RT: 7.248 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037825.D
Acq: 19 Sep 2025 21:37

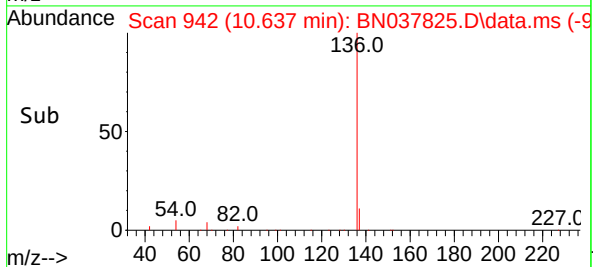
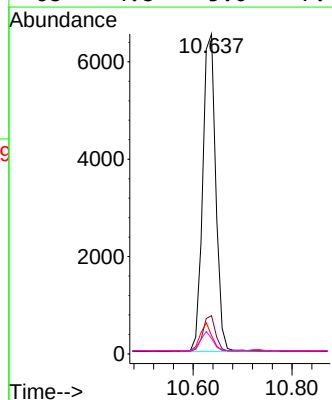
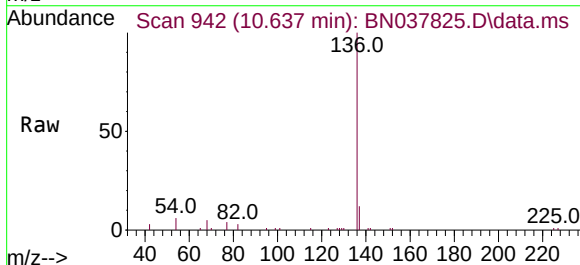
Instrument :
BNA_N
ClientSampleId :
DUP08-20250915

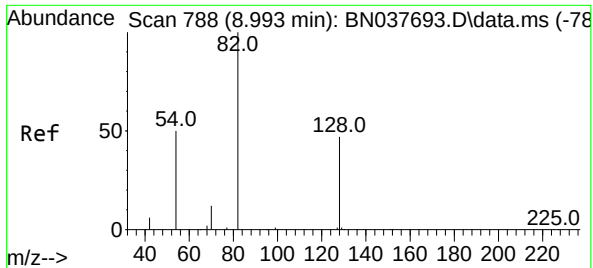
Tgt Ion: 93 Resp: 475
Ion Ratio Lower Upper
93 100
63 80.2 60.6 90.8
95 34.1 26.0 39.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN037825.D
Acq: 19 Sep 2025 21:37

Tgt Ion: 136 Resp: 11932
Ion Ratio Lower Upper
136 100
137 11.9 9.1 13.7
54 5.7 6.3 9.5#
68 4.8 5.0 7.4#

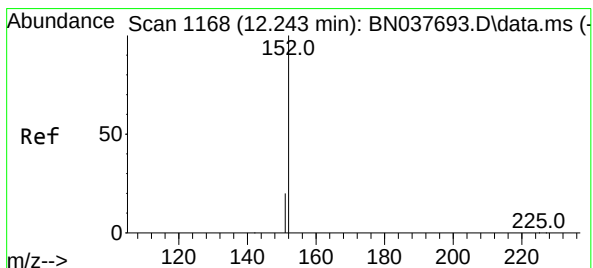
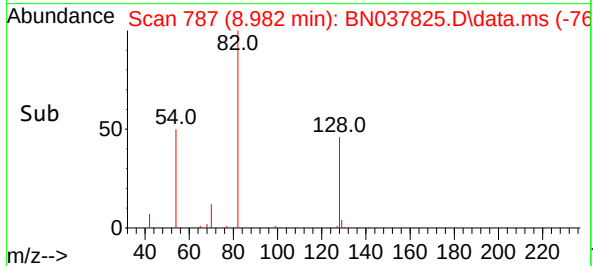
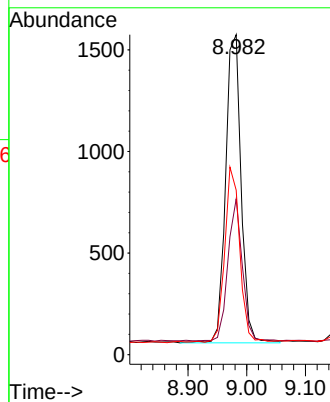
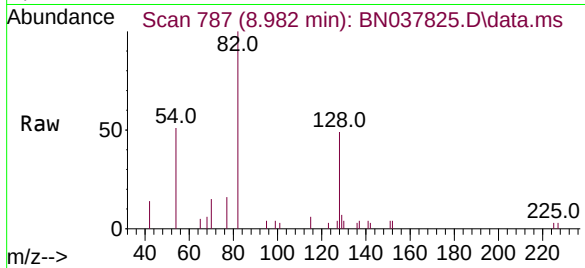




#8
Nitrobenzene-d5
Concen: 0.320 ng
RT: 8.982 min Scan# 788
Delta R.T. -0.011 min
Lab File: BN037825.D
Acq: 19 Sep 2025 21:37

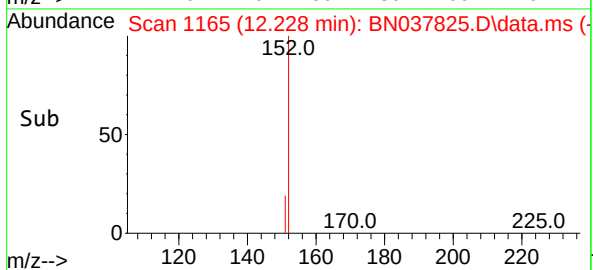
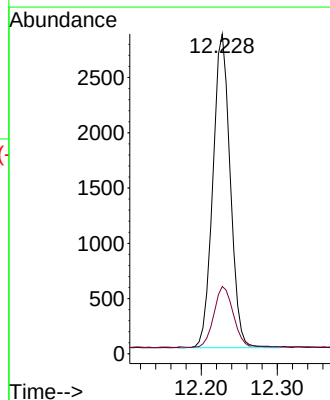
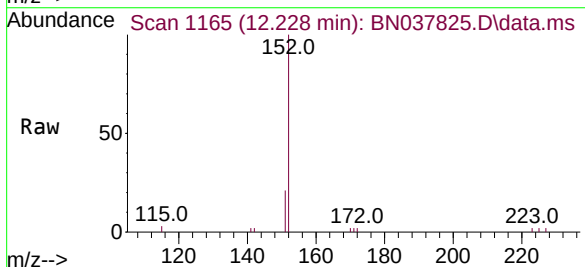
Instrument :
BNA_N
ClientSampleId :
DUP08-20250915

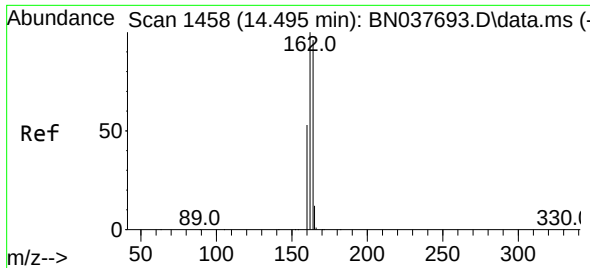
Tgt Ion: 82 Resp: 2793
Ion Ratio Lower Upper
82 100
128 48.7 38.3 57.5
54 51.4 41.4 62.2



#11
2-Methylnaphthalene-d10
Concen: 0.285 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037825.D
Acq: 19 Sep 2025 21:37

Tgt Ion: 152 Resp: 4513
Ion Ratio Lower Upper
152 100
151 21.8 17.0 25.6

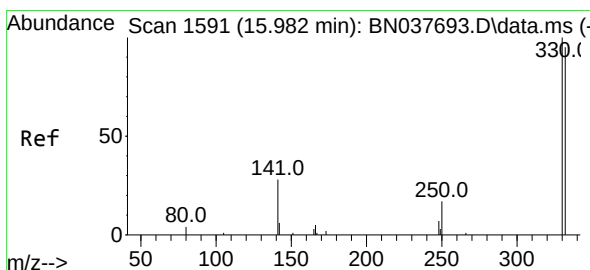
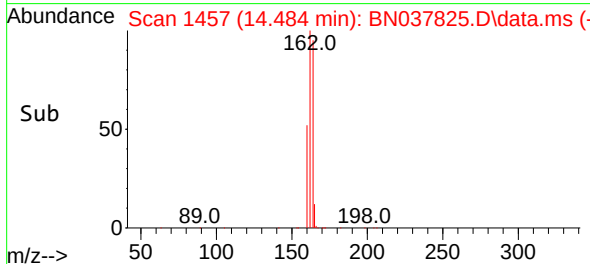
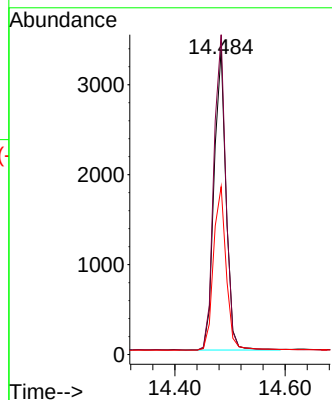
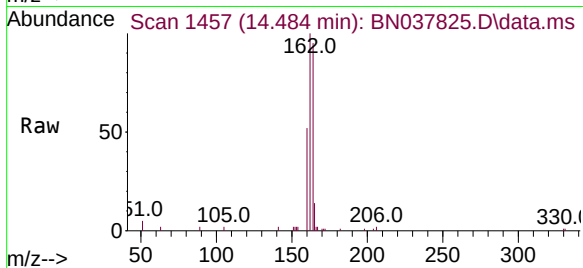




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037825.D
Acq: 19 Sep 2025 21:37

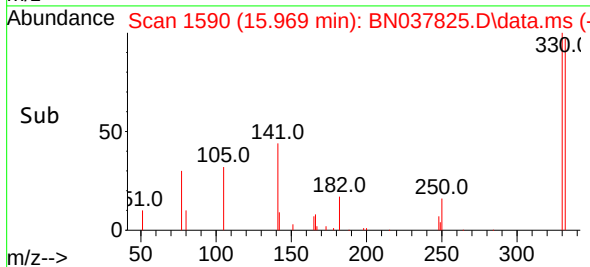
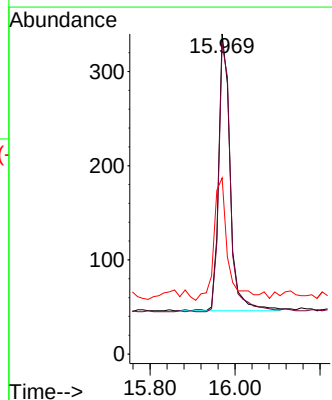
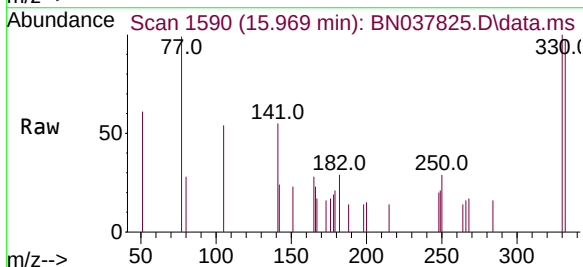
Instrument :
BNA_N
ClientSampleId :
DUP08-20250915

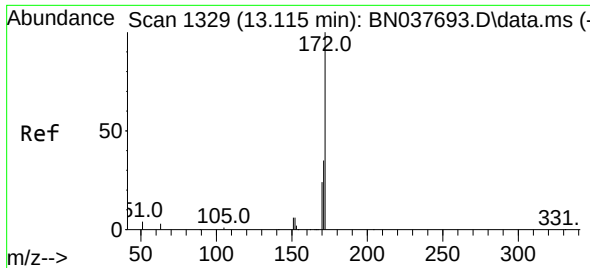
Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.1	83.1	124.7
160	55.1	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.423 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037825.D
Acq: 19 Sep 2025 21:37

Tgt Ion	Ratio	Lower	Upper
330	100		
332	98.6	75.3	112.9
141	53.0	35.0	52.4

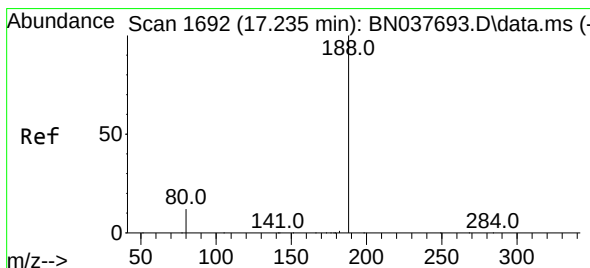
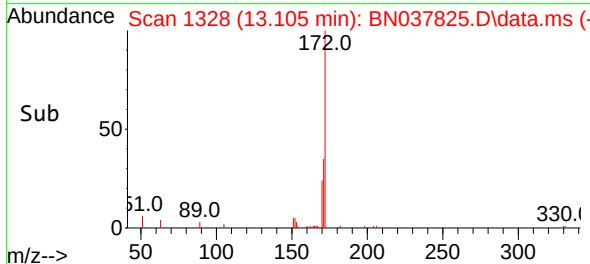
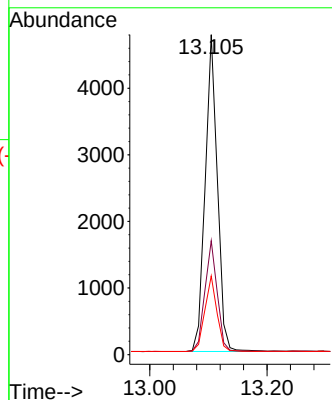
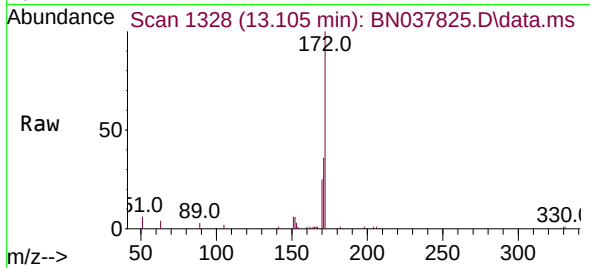




#15
2-Fluorobiphenyl
Concen: 0.326 ng
RT: 13.105 min Scan# 1329
Delta R.T. -0.011 min
Lab File: BN037825.D
Acq: 19 Sep 2025 21:37

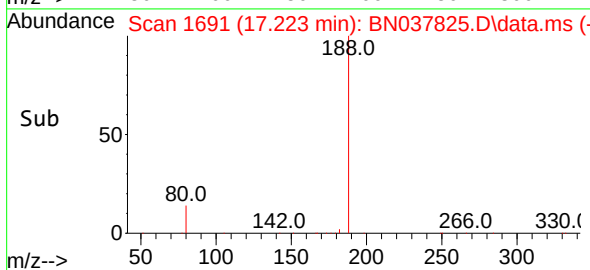
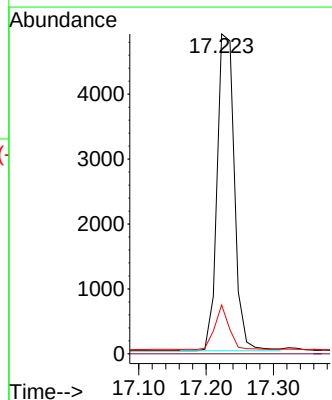
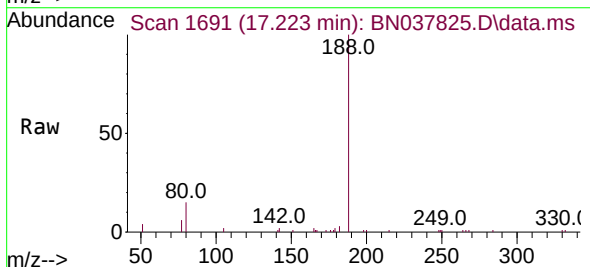
Instrument :
BNA_N
ClientSampleId :
DUP08-20250915

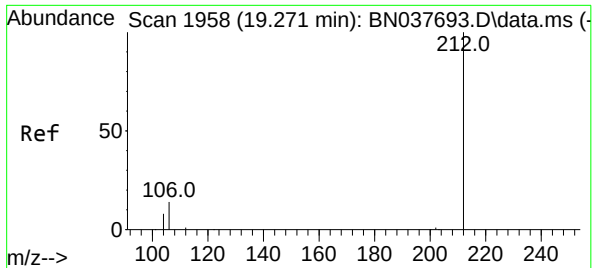
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.6	43.0
170	24.6	19.8	29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.012 min
Lab File: BN037825.D
Acq: 19 Sep 2025 21:37

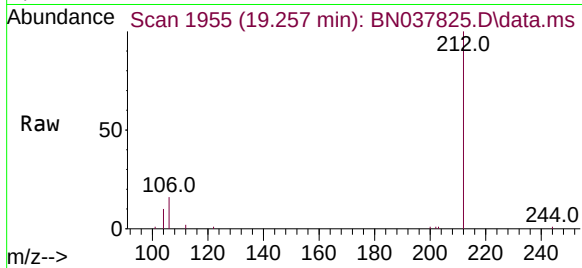
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.3	10.6	15.8



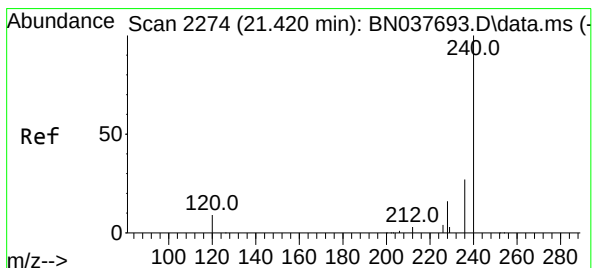
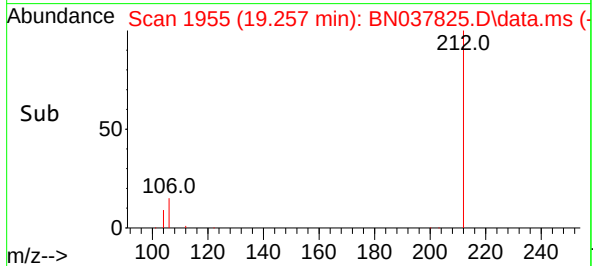
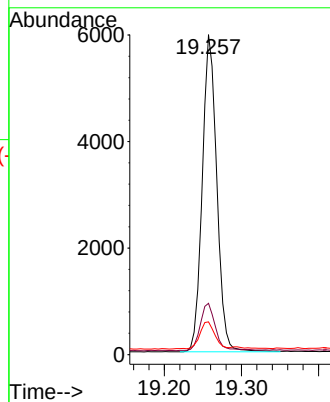


#27
Fluoranthene-d10
Concen: 0.356 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037825.D
Acq: 19 Sep 2025 21:37

Instrument :
BNA_N
ClientSampleId :
DUP08-20250915

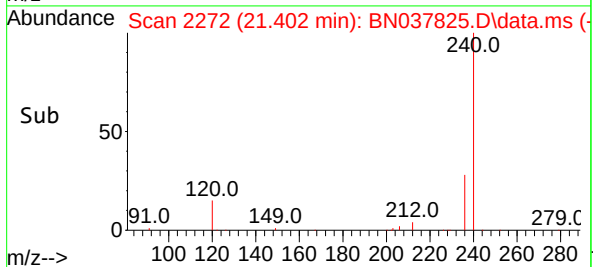
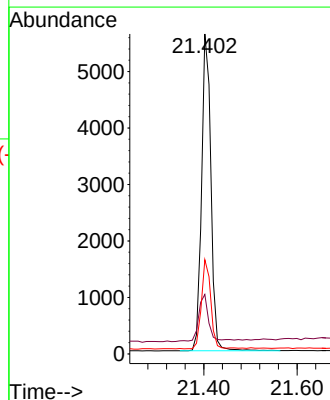
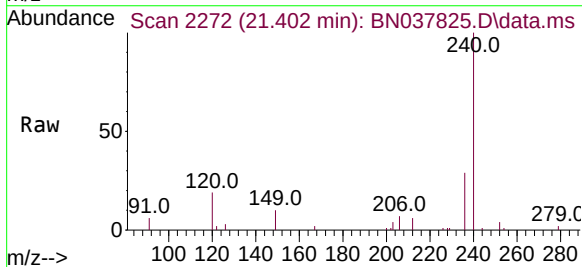


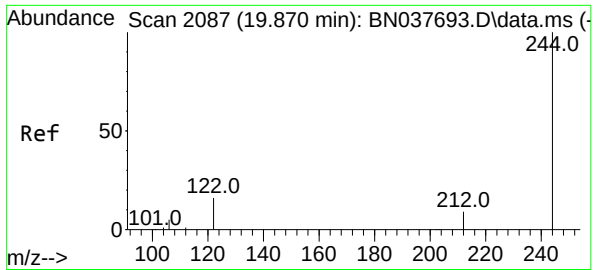
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.7	12.2	18.2
104	9.0	6.9	10.3



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.018 min
Lab File: BN037825.D
Acq: 19 Sep 2025 21:37

Tgt Ion	Ratio	Lower	Upper
240	100		
120	18.6	9.2	13.8
236	29.4	22.6	33.8

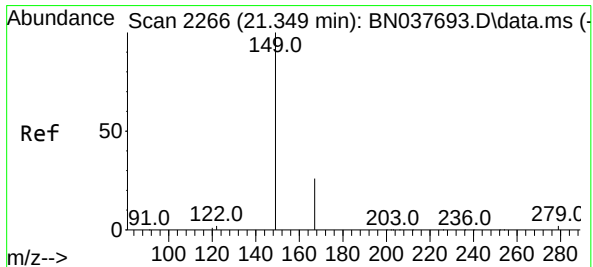
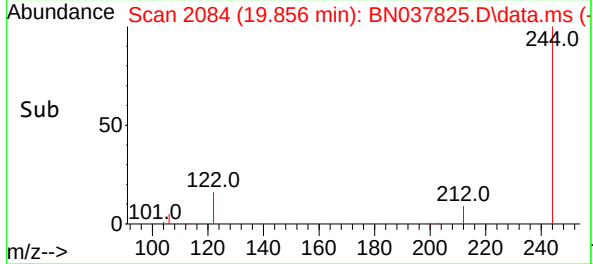
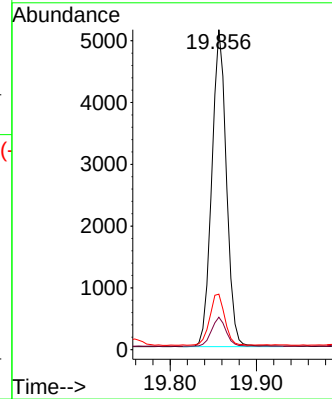
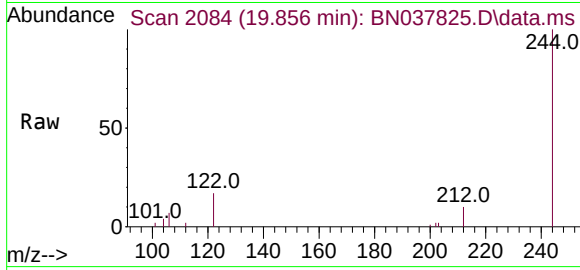




#31
Terphenyl-d14
Concen: 0.383 ng
RT: 19.856 min Scan# 2087
Delta R.T. -0.014 min
Lab File: BN037825.D
Acq: 19 Sep 2025 21:37

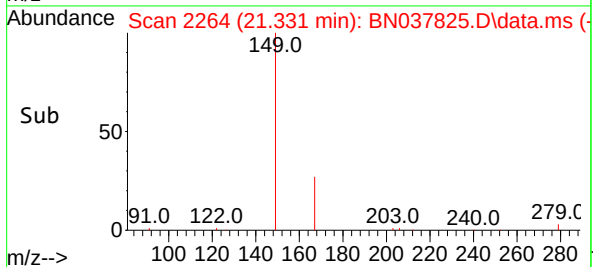
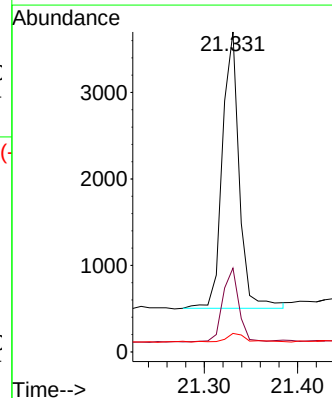
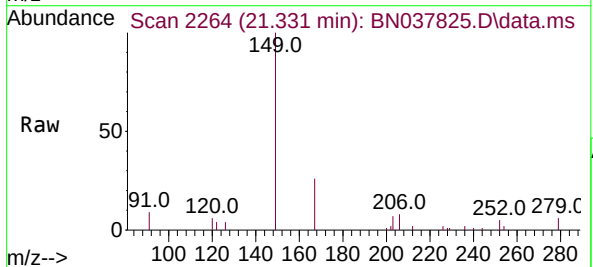
Instrument :
BNA_N
ClientSampleId :
DUP08-20250915

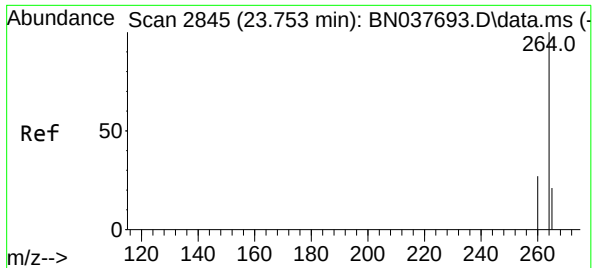
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.2	7.5	11.3
122	17.3	13.2	19.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.501 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037825.D
Acq: 19 Sep 2025 21:37

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.3	20.8	31.2
279	3.9	3.3	4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.733 min Scan# 2845

Delta R.T. -0.020 min

Lab File: BN037825.D

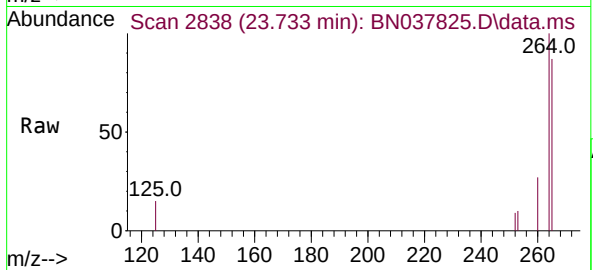
Acq: 19 Sep 2025 21:37

Instrument :

BNA_N

ClientSampleId :

DUP08-20250915



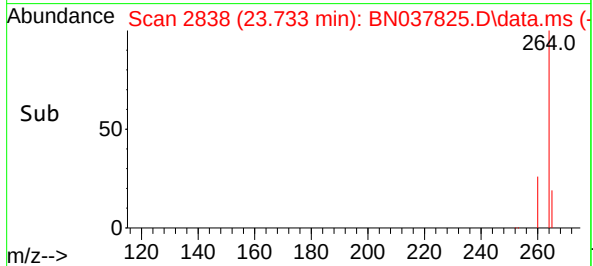
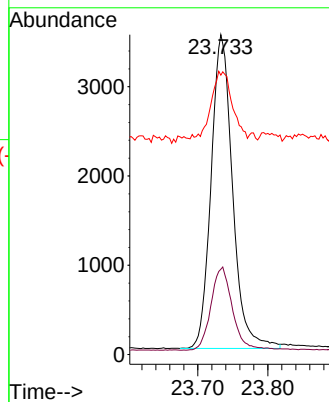
Tgt Ion:264 Resp: 7494

Ion Ratio Lower Upper

264 100

260 26.6 21.8 32.8

265 87.3 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	09/15/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/17/25
Client Sample ID:	RE131D1-20250915		SDG No.:	Q3127
Lab Sample ID:	Q3127-02		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
BN037826.D	1	09/18/25 11:35	09/19/25 22:13	PB169743

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.30	E	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	0.39		55 - 111		97%	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		94%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5600	7.826				
1146-65-2	Naphthalene-d8	12600	10.637				
15067-26-2	Acenaphthene-d10	5330	14.484				
1517-22-2	Phenanthrene-d10	9210	17.223				
1719-03-5	Chrysene-d12	7690	21.402				
1520-96-3	Perylene-d12	7580	23.73				

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 : BN037826.D
Acq On : 19 Sep 2025 22:13
Operator : RC/JU
Sample : Q3127-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D1-20250915

Quant Time: Sep 19 23:51:03 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

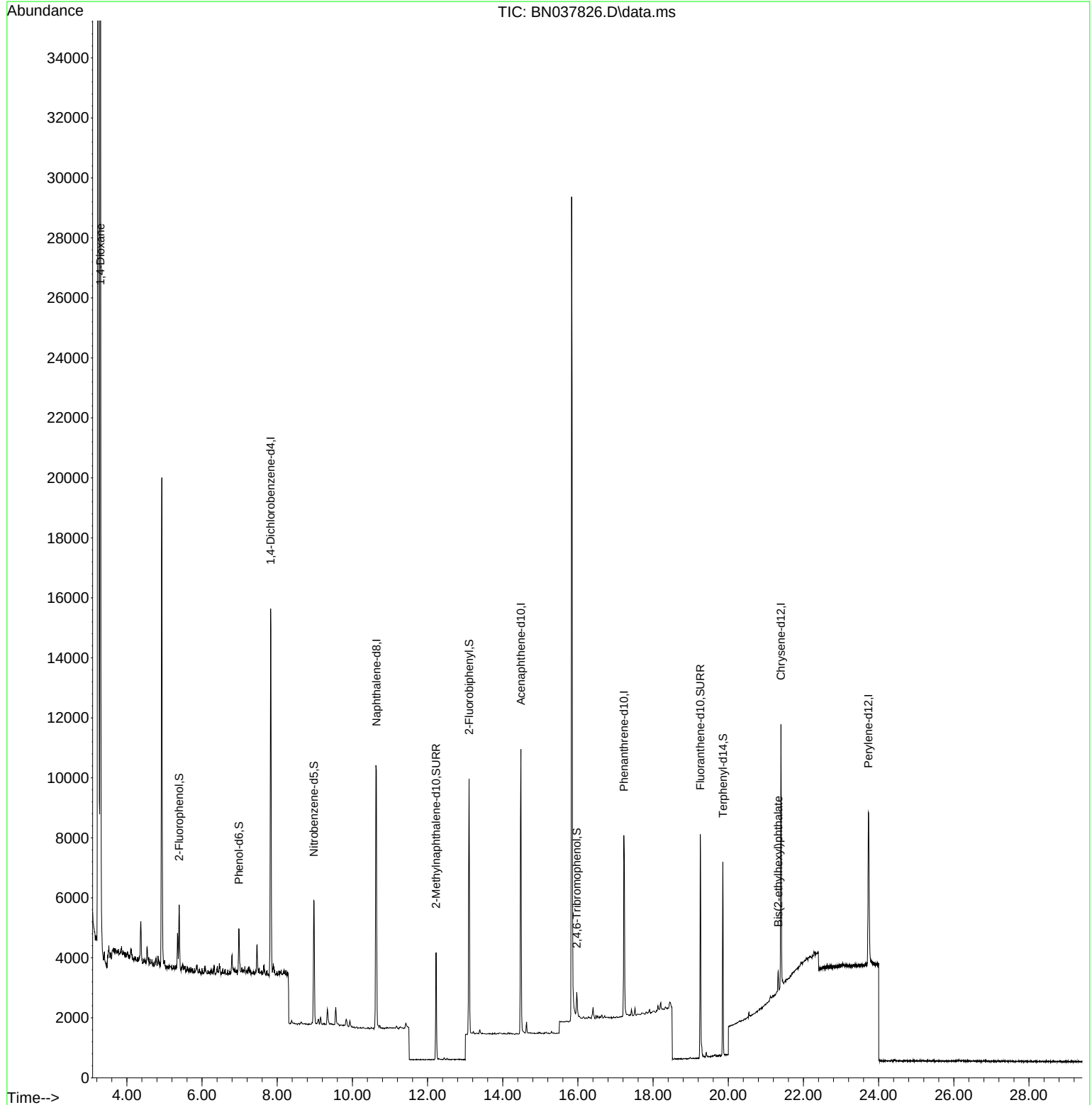
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.826	152	5595	0.400	ng	-0.01
7) Naphthalene-d8	10.637	136	12577	0.400	ng	#-0.01
13) Acenaphthene-d10	14.484	164	5333	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	9207	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	7688	0.400	ng	#-0.02
35) Perylene-d12	23.730	264	7581	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1647	0.128	ng	0.00
5) Phenol-d6	6.981	99	1226	0.074	ng	0.00
8) Nitrobenzene-d5	8.971	82	3547	0.386	ng	-0.02
11) 2-Methylnaphthalene-d10	12.228	152	4790	0.287	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	549	0.395	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	7120	0.319	ng	-0.01
27) Fluoranthene-d10	19.257	212	8150	0.353	ng	-0.01
31) Terphenyl-d14	19.857	244	5891	0.378	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	30879	5.299	ng	95
34) Bis(2-ethylhexyl)phtha...	21.331	149	722	0.091	ng	# 98

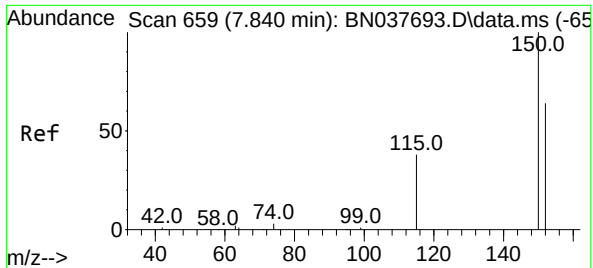
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037826.D
Acq On : 19 Sep 2025 22:13
Operator : RC/JU
Sample : Q3127-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D1-20250915

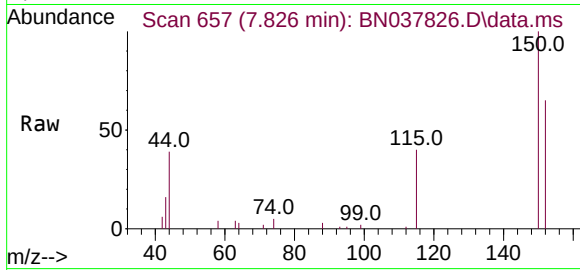
Quant Time: Sep 19 23:51:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



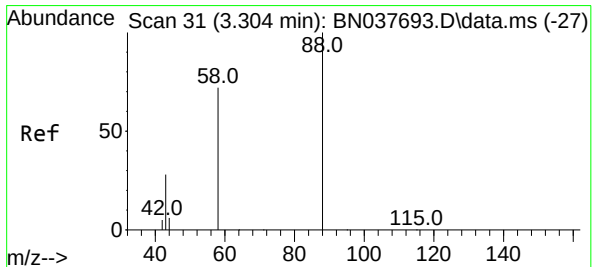
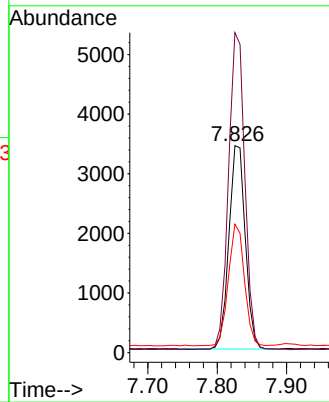
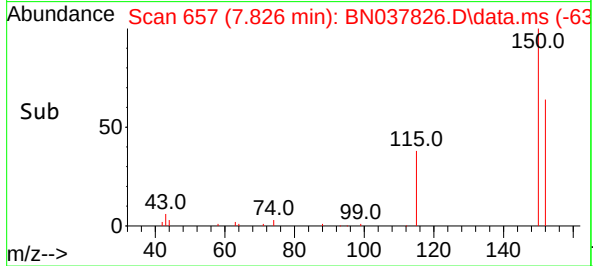


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 61
Delta R.T. -0.014 min
Lab File: BN037826.D
Acq: 19 Sep 2025 22:13

Instrument :
BNA_N
ClientSampleId :
RE131D1-20250915

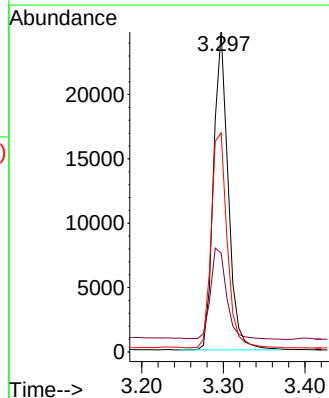
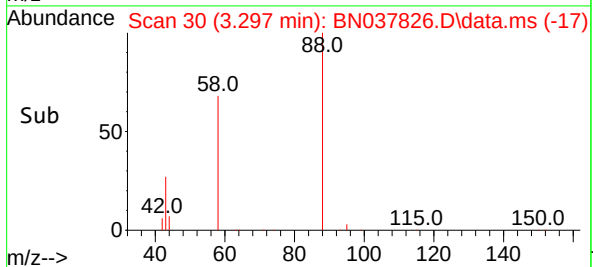
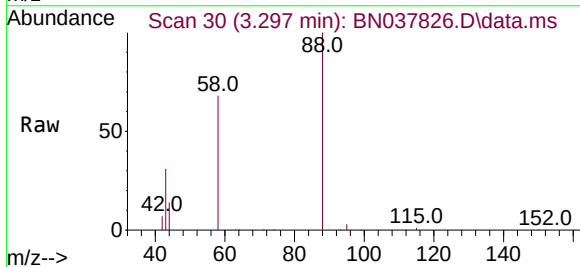


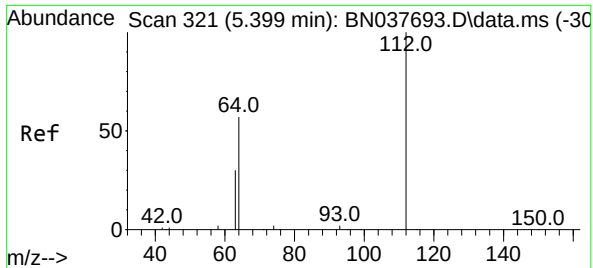
Tgt Ion:152 Resp: 5595
Ion Ratio Lower Upper
152 100
150 154.6 124.5 186.7
115 62.1 49.2 73.8



#2
1,4-Dioxane
Concen: 5.299 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037826.D
Acq: 19 Sep 2025 22:13

Tgt Ion: 88 Resp: 30879
Ion Ratio Lower Upper
88 100
43 31.0 26.8 40.2
58 73.3 61.9 92.9

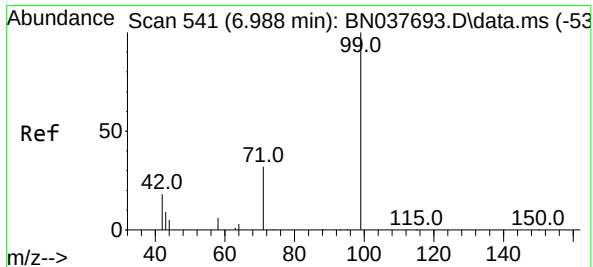
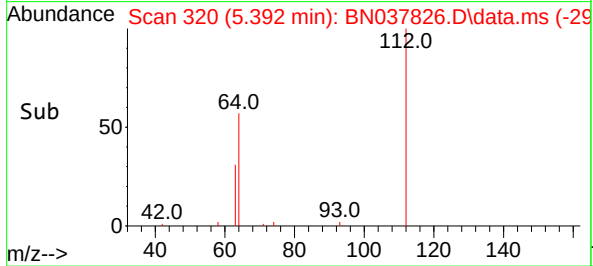
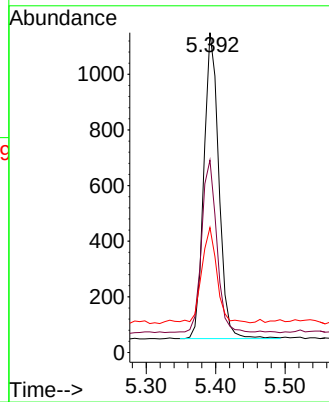
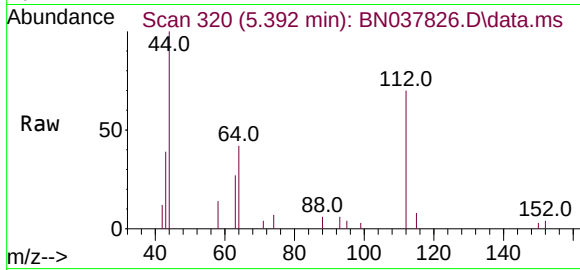




#4
2-Fluorophenol
Concen: 0.128 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037826.D
Acq: 19 Sep 2025 22:13

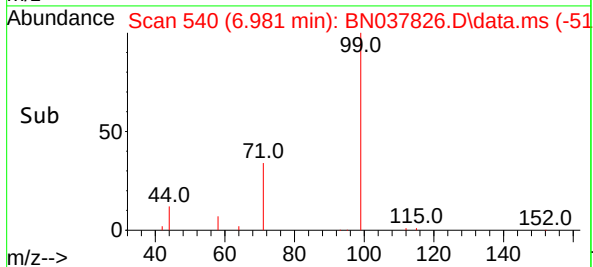
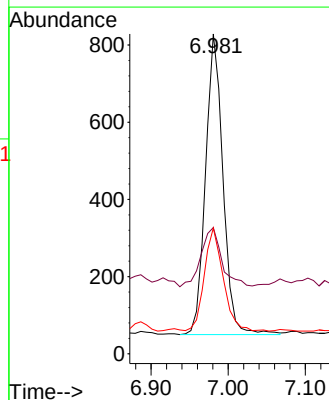
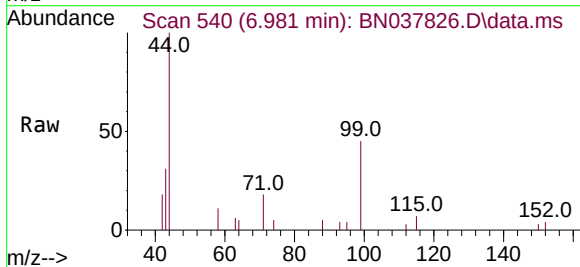
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250915

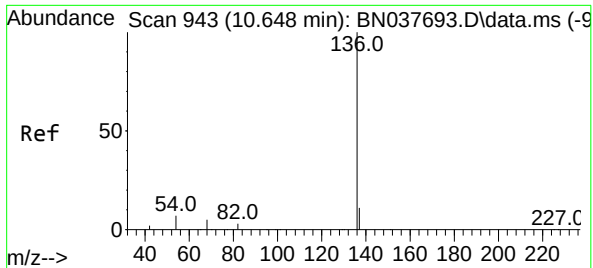
Tgt Ion:	112	Resp:	1647
Ion	Ratio	Lower	Upper
112	100		
64	56.3	44.9	67.3
63	31.6	24.7	37.1



#5
Phenol-d6
Concen: 0.074 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037826.D
Acq: 19 Sep 2025 22:13

Tgt Ion:	99	Resp:	1226
Ion	Ratio	Lower	Upper
99	100		
42	23.2	16.6	24.8
71	37.0	26.7	40.1

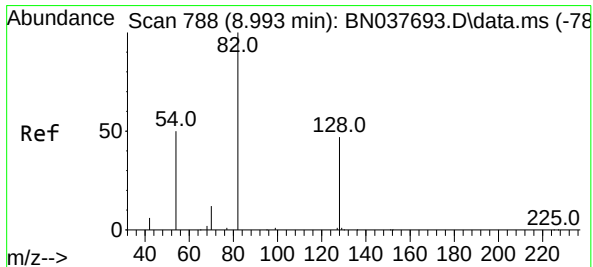
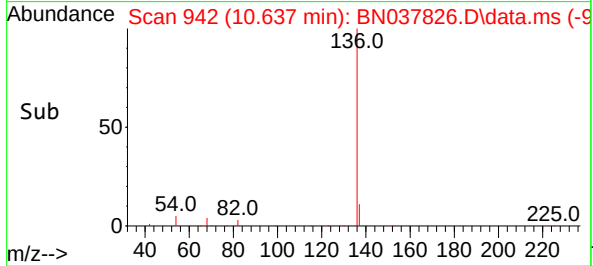
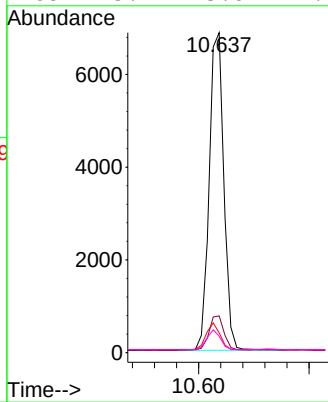
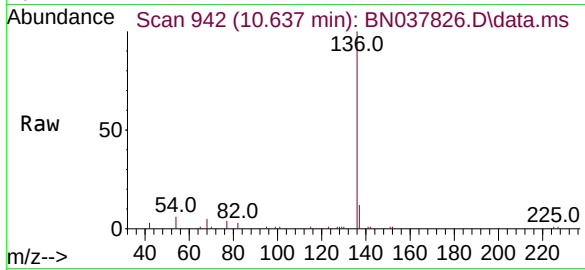




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037826.D
Acq: 19 Sep 2025 22:13

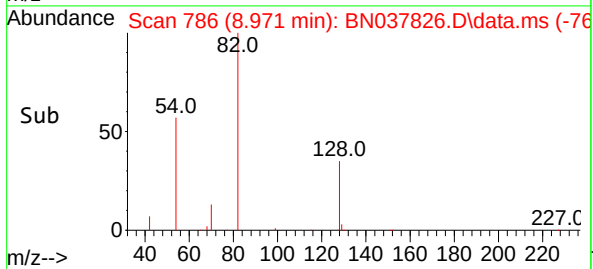
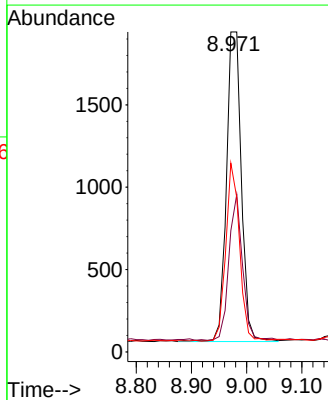
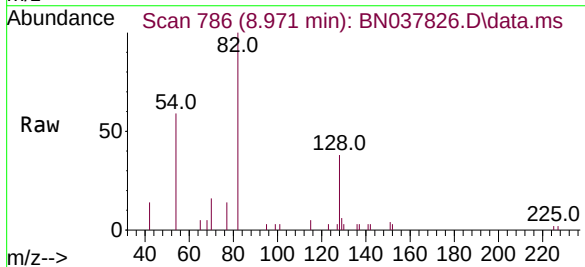
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250915

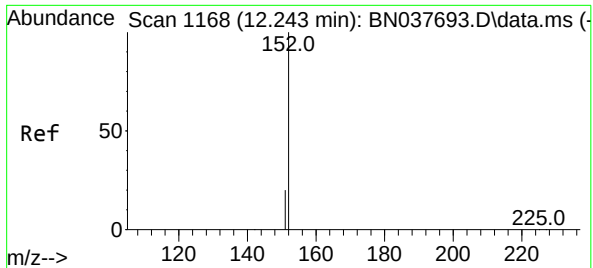
Tgt Ion:	136	Resp:	12577
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	6.2	6.3	9.5#
68	5.1	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.386 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.021 min
Lab File: BN037826.D
Acq: 19 Sep 2025 22:13

Tgt Ion:	82	Resp:	3547
Ion	Ratio	Lower	Upper
82	100		
128	37.9	38.3	57.5#
54	59.0	41.4	62.2

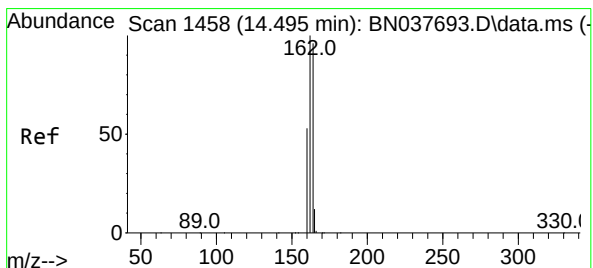
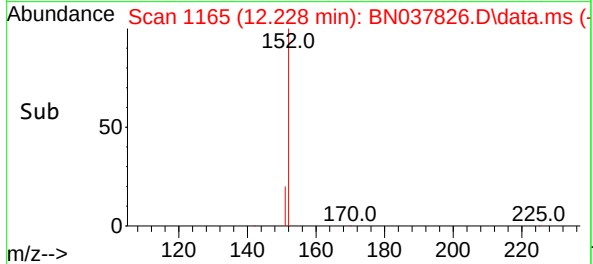
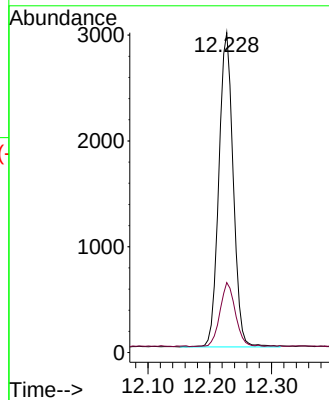
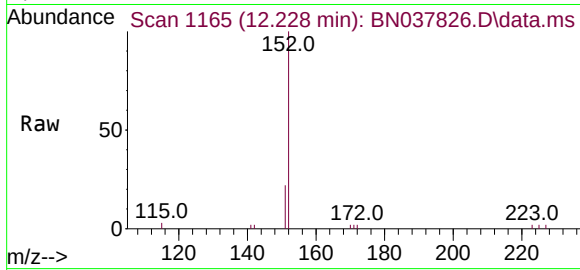




#11
2-Methylnaphthalene-d10
Concen: 0.287 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037826.D
Acq: 19 Sep 2025 22:13

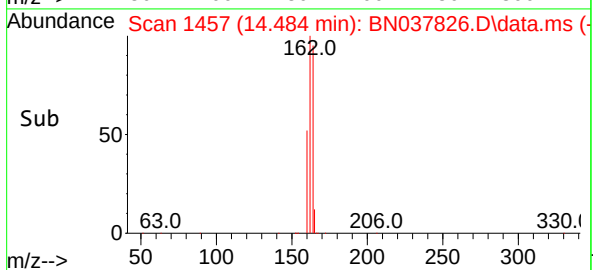
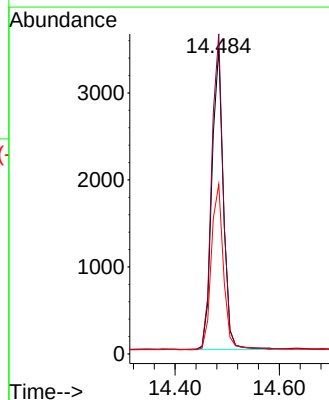
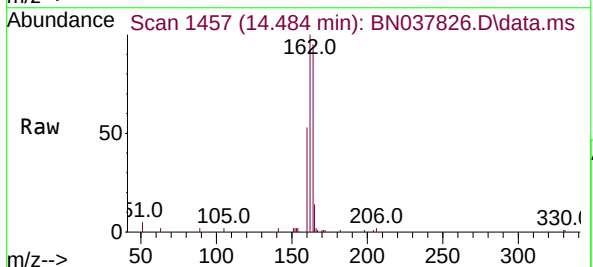
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250915

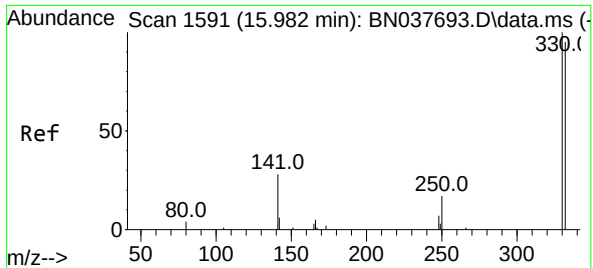
Tgt Ion:152 Resp: 4790
Ion Ratio Lower Upper
152 100
151 21.8 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037826.D
Acq: 19 Sep 2025 22:13

Tgt Ion:164 Resp: 5333
Ion Ratio Lower Upper
164 100
162 104.8 83.1 124.7
160 55.6 44.3 66.5

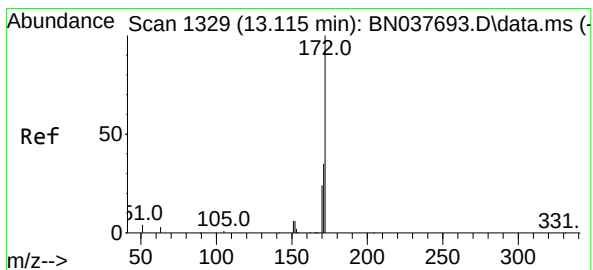
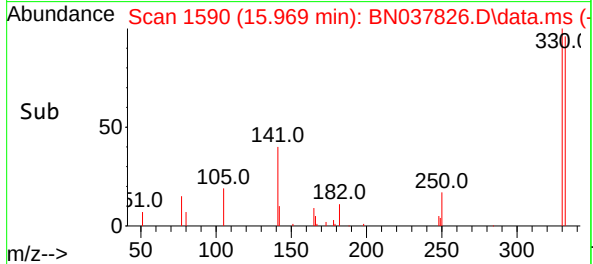
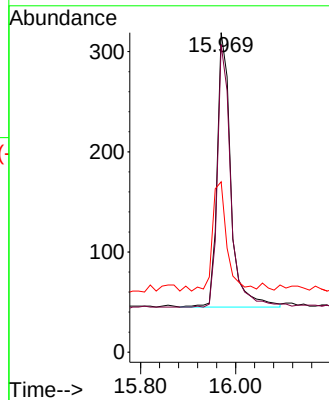
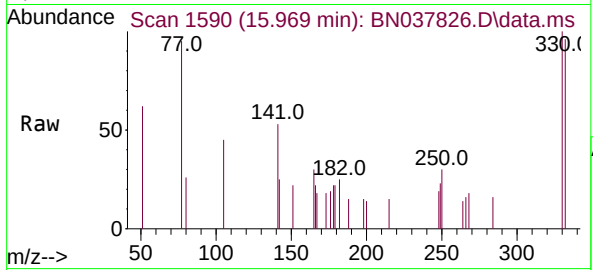




#14
2,4,6-Tribromophenol
Concen: 0.395 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037826.D
Acq: 19 Sep 2025 22:13

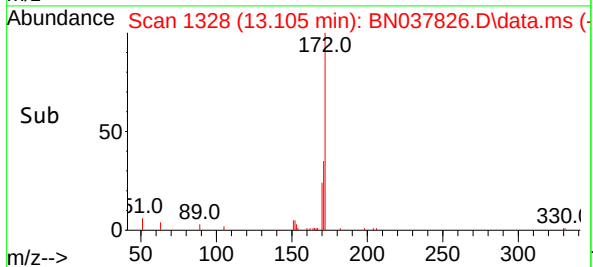
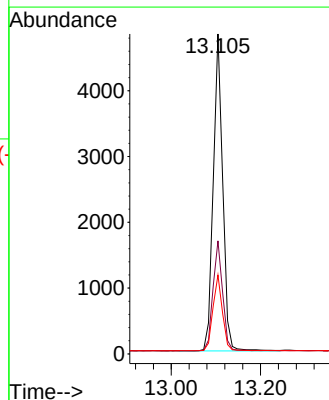
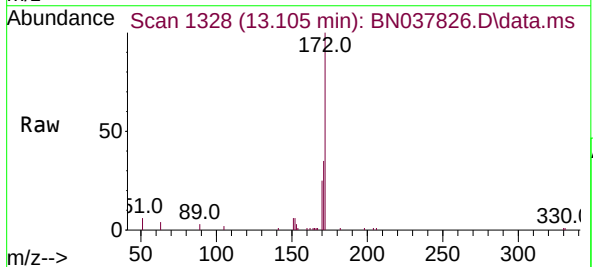
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250915

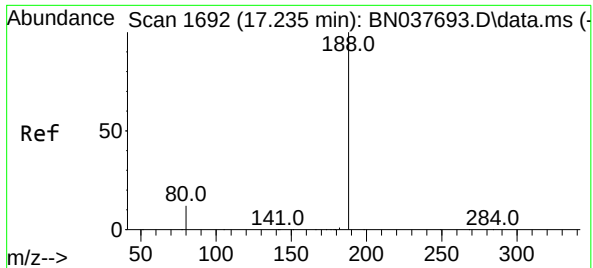
Tgt Ion:330 Resp: 549
Ion Ratio Lower Upper
330 100
332 94.4 75.3 112.9
141 41.9 35.0 52.4



#15
2-Fluorobiphenyl
Concen: 0.319 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037826.D
Acq: 19 Sep 2025 22:13

Tgt Ion:172 Resp: 7120
Ion Ratio Lower Upper
172 100
171 35.3 28.6 43.0
170 24.6 19.8 29.8

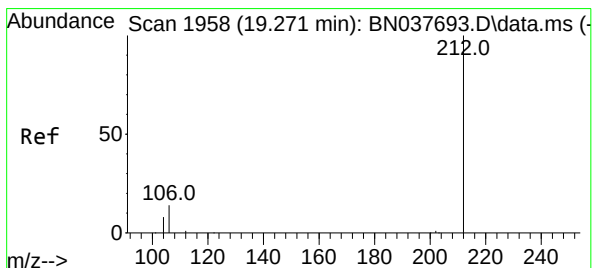
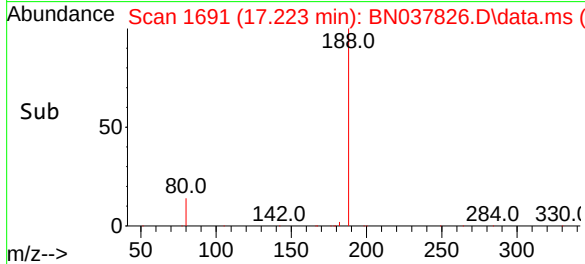
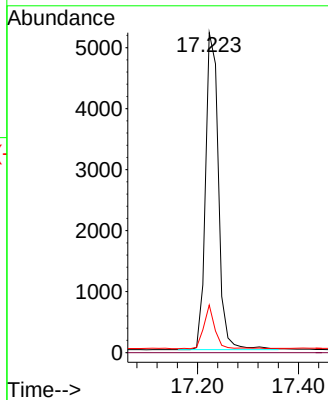
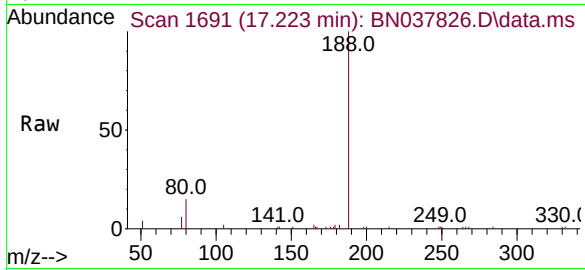




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.012 min
Lab File: BN037826.D
Acq: 19 Sep 2025 22:13

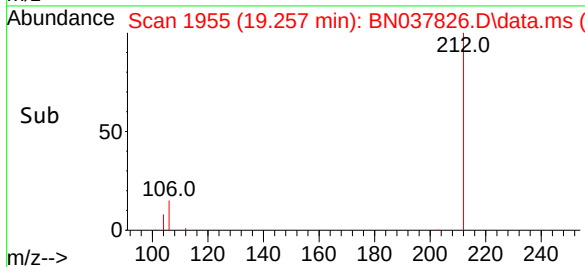
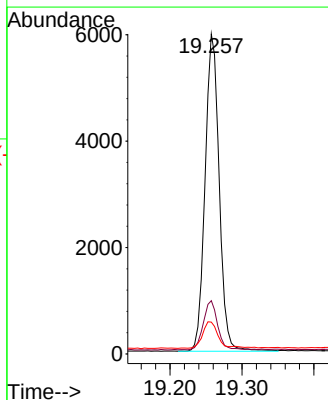
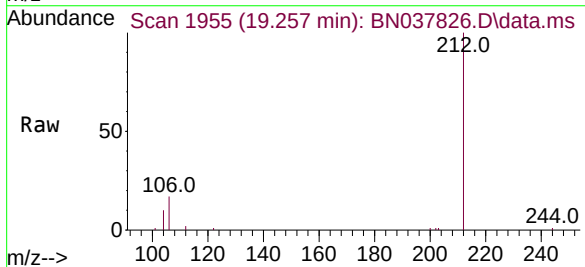
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250915

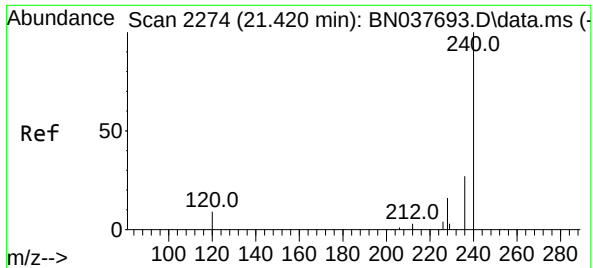
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.9	10.6	15.8



#27
Fluoranthene-d10
Concen: 0.353 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037826.D
Acq: 19 Sep 2025 22:13

Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.5	12.2	18.2
104	9.4	6.9	10.3

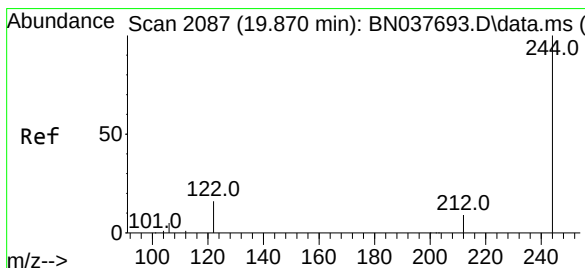
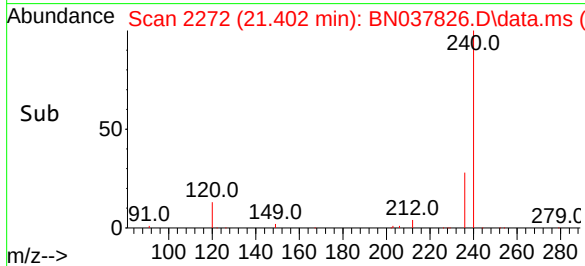
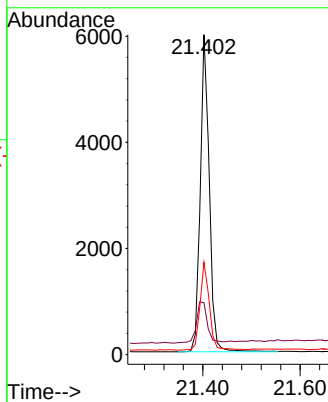
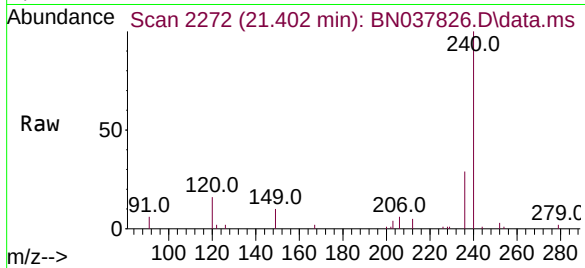




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037826.D
Acq: 19 Sep 2025 22:13

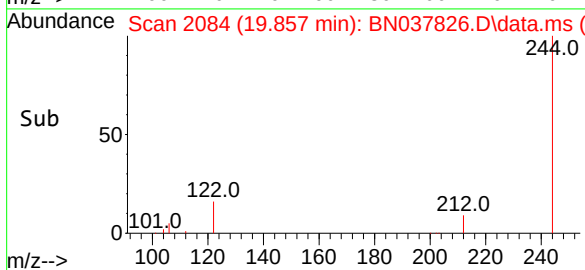
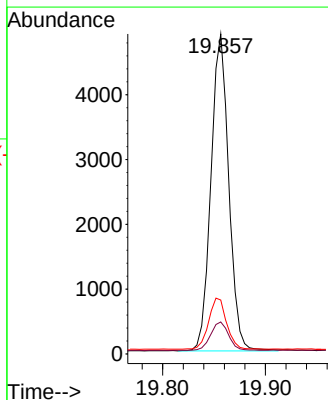
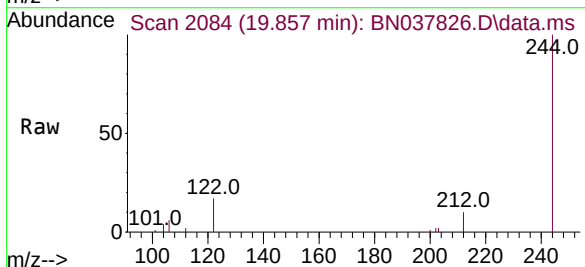
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250915

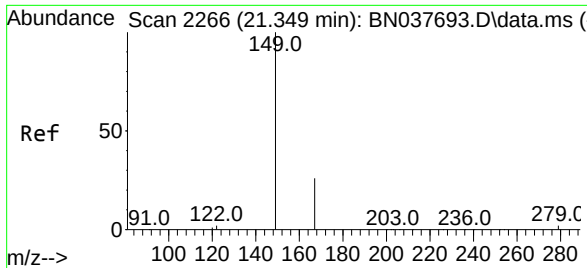
Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.3	9.2	13.8#
236	28.8	22.6	33.8



#31
Terphenyl-d14
Concen: 0.378 ng
RT: 19.857 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037826.D
Acq: 19 Sep 2025 22:13

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.0	7.5	11.3
122	16.8	13.2	19.8

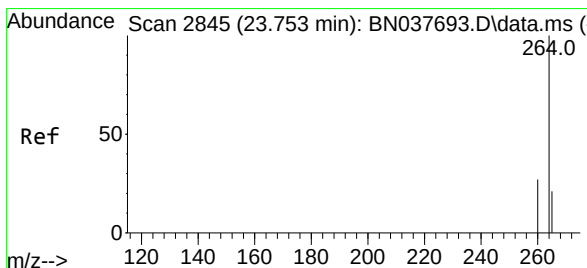
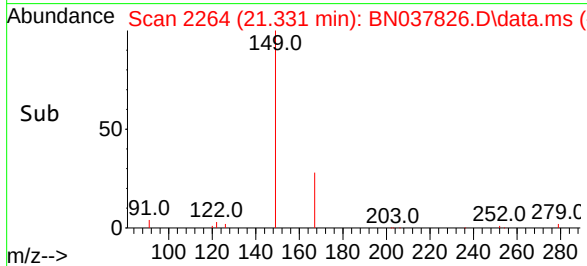
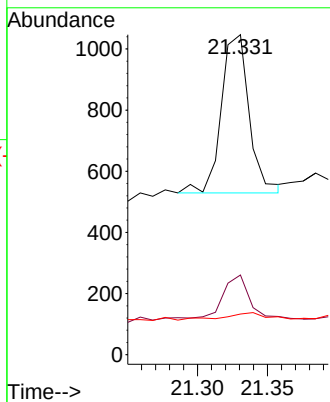
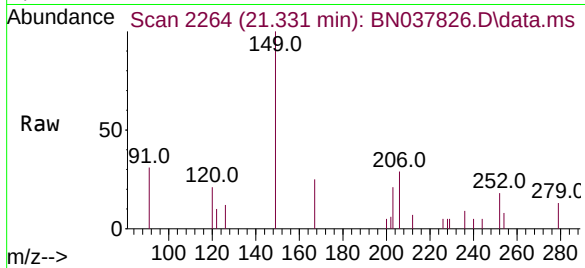




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.091 ng
RT: 21.331 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037826.D
Acq: 19 Sep 2025 22:13

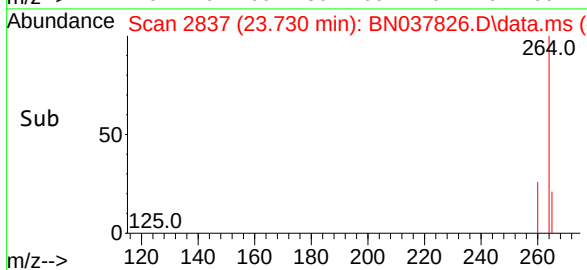
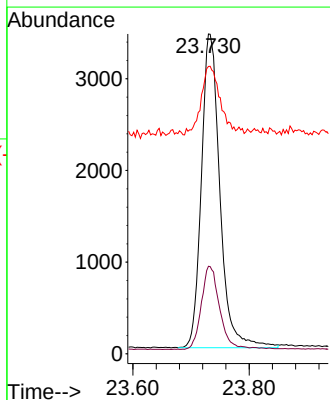
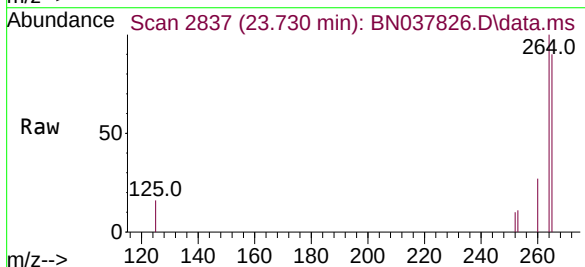
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250915

Tgt Ion:149 Resp: 722
Ion Ratio Lower Upper
149 100
167 26.3 20.8 31.2
279 7.3 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.730 min Scan# 2837
Delta R.T. -0.023 min
Lab File: BN037826.D
Acq: 19 Sep 2025 22:13

Tgt Ion:264 Resp: 7581
Ion Ratio Lower Upper
264 100
260 27.4 21.8 32.8
265 89.8 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/15/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/17/25
Client Sample ID:	RE131D1-20250915DL	SDG No.:	Q3127
Lab Sample ID:	Q3127-02DL	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
BN037853.D	2	09/18/25 11:35	09/22/25 12:44	PB169743

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.70	D	0.13	0.40	0.40	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	0.36		55 - 111		89%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		96%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5210		7.825			
1146-65-2	Naphthalene-d8	13400		10.626			
15067-26-2	Acenaphthene-d10	5410		14.484			
1517-22-2	Phenanthrene-d10	9590		17.223			
1719-03-5	Chrysene-d12	8310		21.402			
1520-96-3	Perylene-d12	7980		23.735			

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\BN092225\
Data File : BN037853.D
Acq On : 22 Sep 2025 12:44
Operator : RC/JU
Sample : Q3127-02DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D1-20250915DL

Quant Time: Sep 22 13:10:53 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

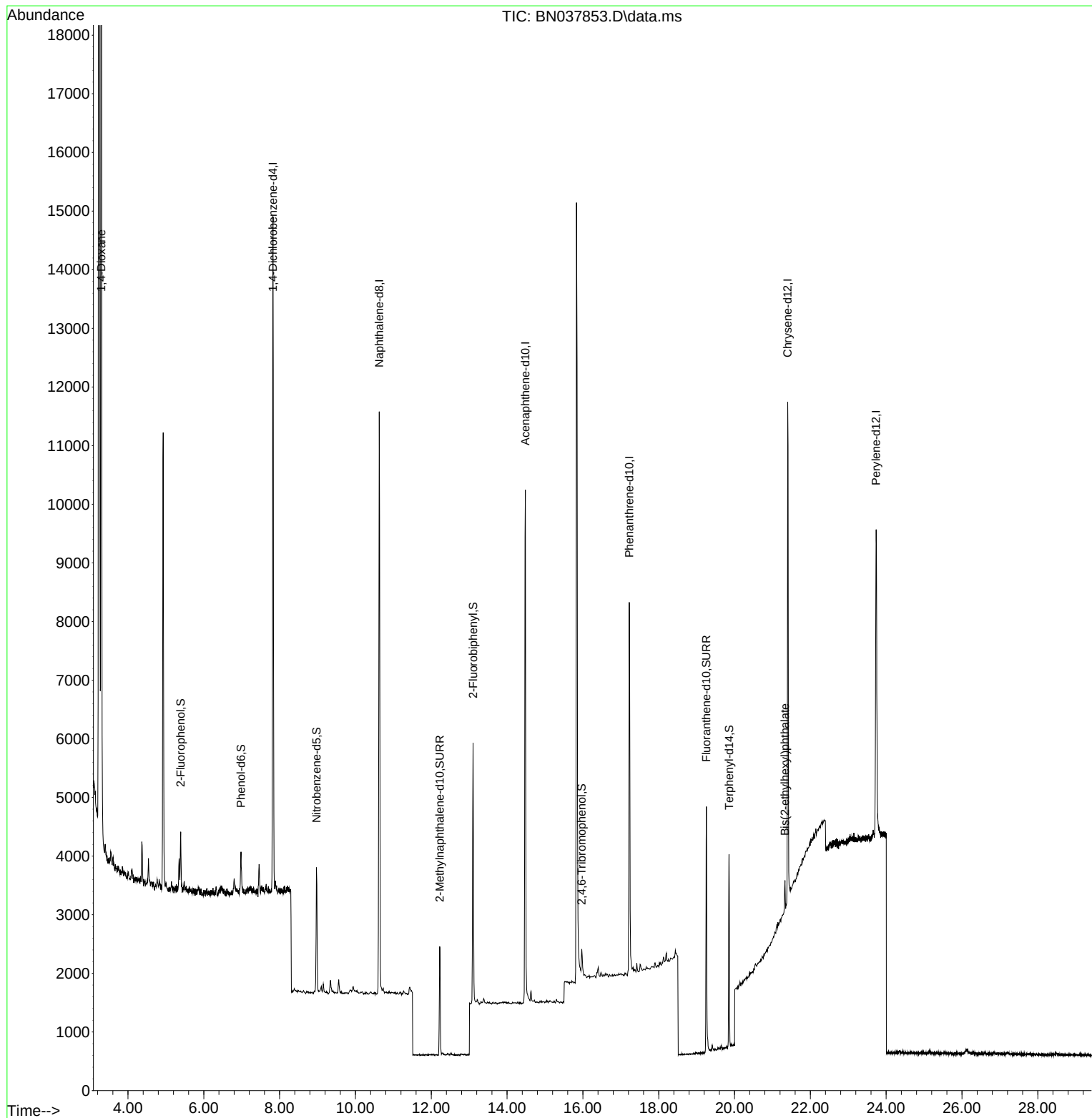
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5210	0.400	ng	-0.01
7) Naphthalene-d8	10.626	136	13414	0.400	ng	-0.02
13) Acenaphthene-d10	14.484	164	5405	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	9591	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	8310	0.400	ng	#-0.02
35) Perylene-d12	23.735	264	7982	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.391	112	806	0.067	ng	0.00
5) Phenol-d6	6.980	99	608	0.039	ng	0.00
8) Nitrobenzene-d5	8.971	82	1743	0.178	ng	-0.02
11) 2-Methylnaphthalene-d10	12.222	152	2583	0.145	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	306	0.217	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	3918	0.173	ng	-0.01
27) Fluoranthene-d10	19.257	212	4496	0.187	ng	-0.01
31) Terphenyl-d14	19.856	244	3233	0.192	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	18216	3.357	ng	96
34) Bis(2-ethylhexyl)phtha...	21.330	149	549	0.064	ng	# 95

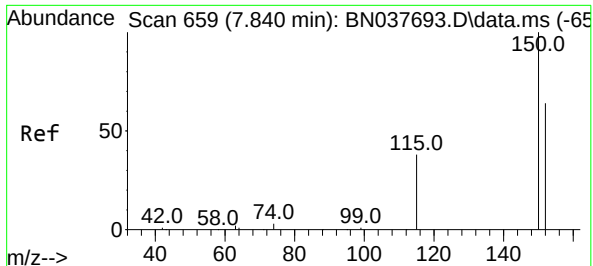
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037853.D
Acq On : 22 Sep 2025 12:44
Operator : RC/JU
Sample : Q3127-02DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D1-20250915DL

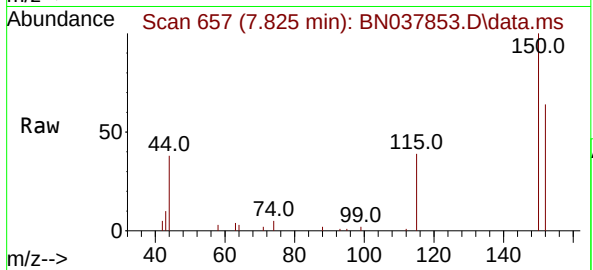
Quant Time: Sep 22 13:10:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



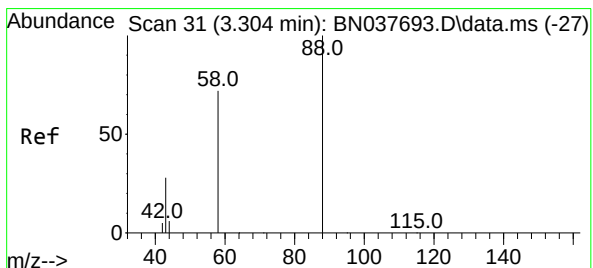
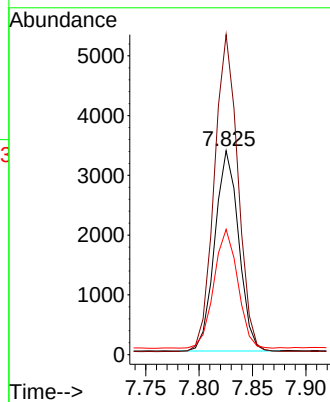
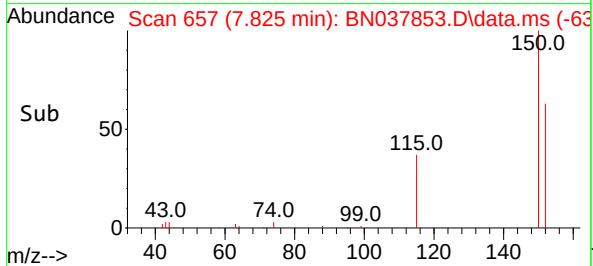


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN037853.D
Acq: 22 Sep 2025 12:44

Instrument :
BNA_N
ClientSampleId :
RE131D1-20250915DL

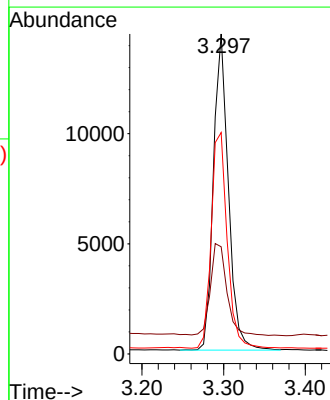
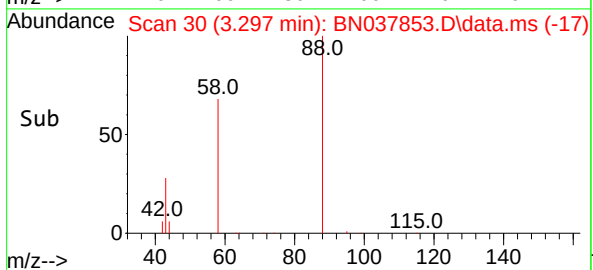
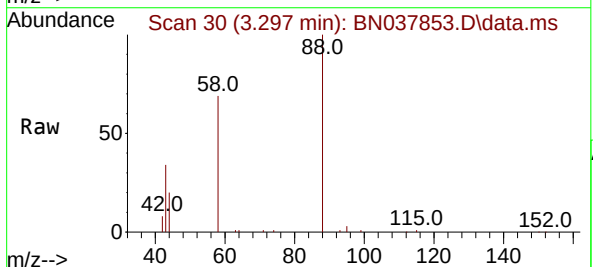


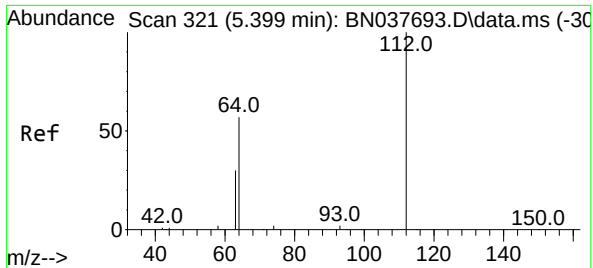
Tgt Ion:152 Resp: 5210
Ion Ratio Lower Upper
152 100
150 156.8 124.5 186.7
115 61.4 49.2 73.8



#2
1,4-Dioxane
Concen: 3.357 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037853.D
Acq: 22 Sep 2025 12:44

Tgt Ion: 88 Resp: 18216
Ion Ratio Lower Upper
88 100
43 31.9 26.8 40.2
58 73.2 61.9 92.9

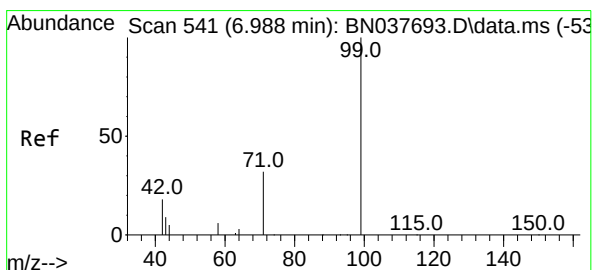
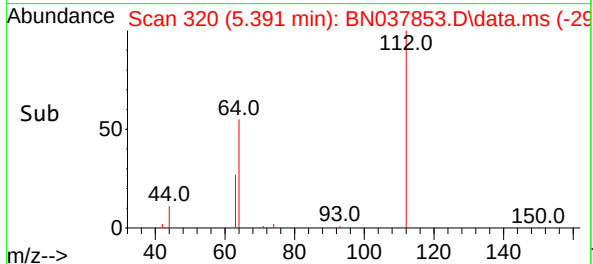
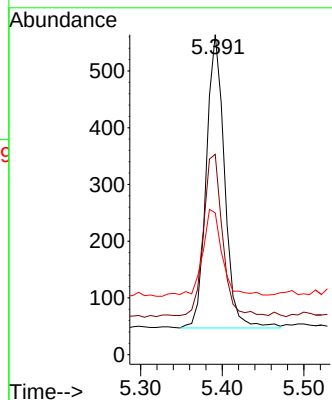
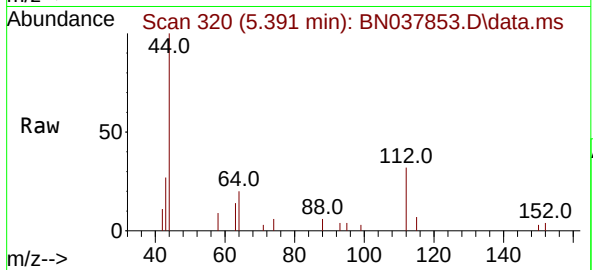




#4
2-Fluorophenol
Concen: 0.067 ng
RT: 5.391 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037853.D
Acq: 22 Sep 2025 12:44

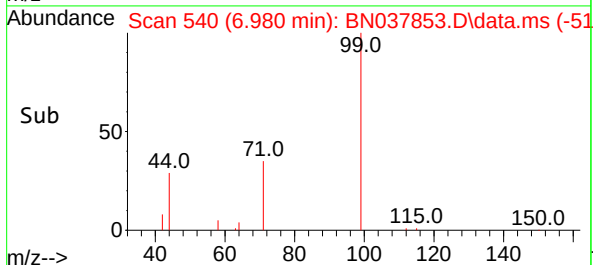
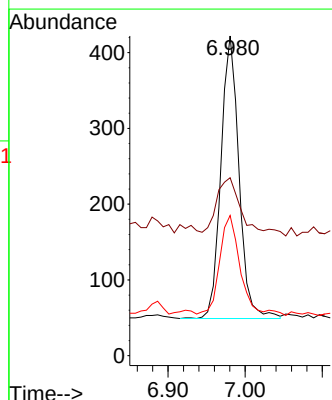
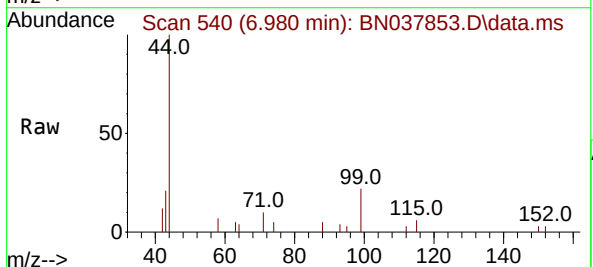
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BNA_N
ClientSampleId :
RE131D1-20250915DL

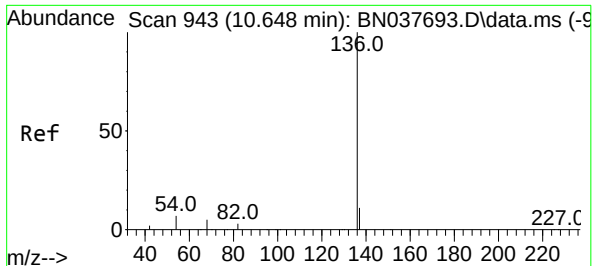
Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.3	44.9	67.3
63	32.0	24.7	37.1



#5
Phenol-d6
Concen: 0.039 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037853.D
Acq: 22 Sep 2025 12:44

Tgt Ion	Ratio	Lower	Upper
99	100		
42	23.7	16.6	24.8
71	37.8	26.7	40.1

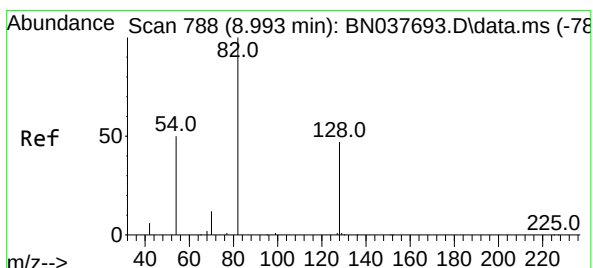
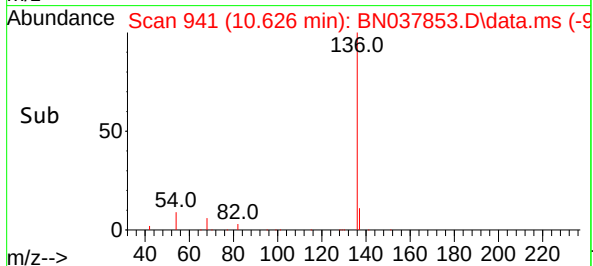
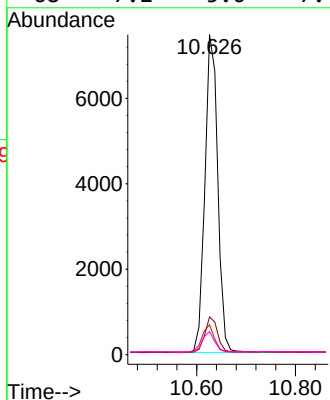
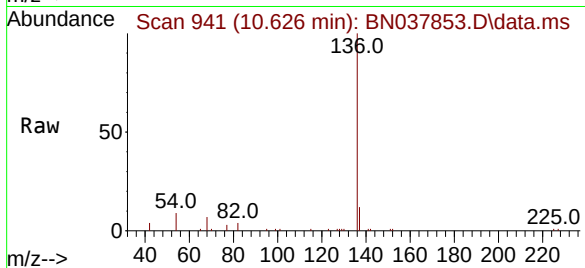




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.022 min
Lab File: BN037853.D
Acq: 22 Sep 2025 12:44

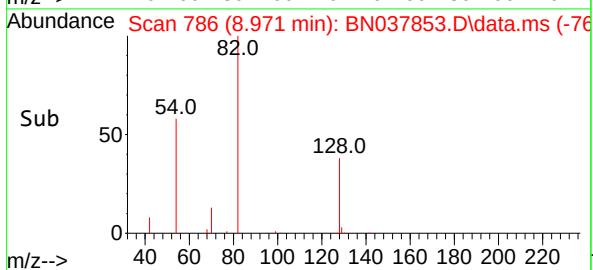
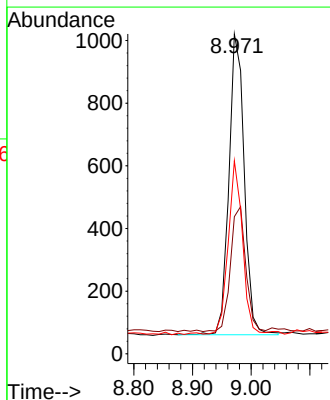
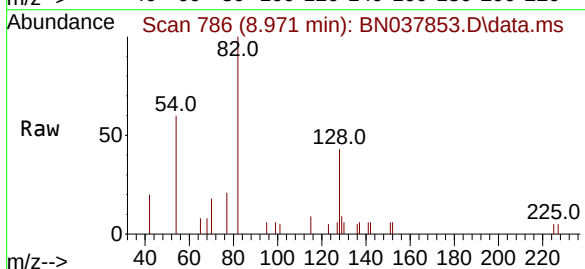
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250915DL

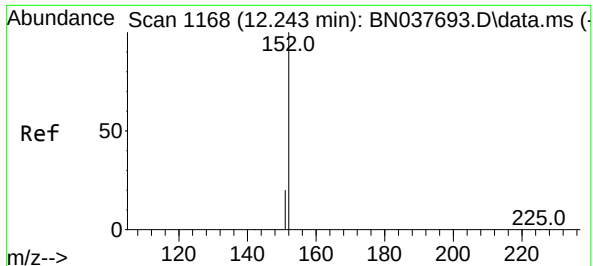
Tgt Ion:	136	Resp:	13414
Ion	Ratio	Lower	Upper
136	100		
137	11.8	9.1	13.7
54	9.3	6.3	9.5
68	7.2	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.178 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.022 min
Lab File: BN037853.D
Acq: 22 Sep 2025 12:44

Tgt Ion:	82	Resp:	1743
Ion	Ratio	Lower	Upper
82	100		
128	42.9	38.3	57.5
54	60.3	41.4	62.2

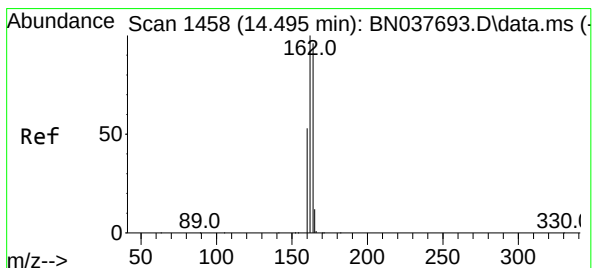
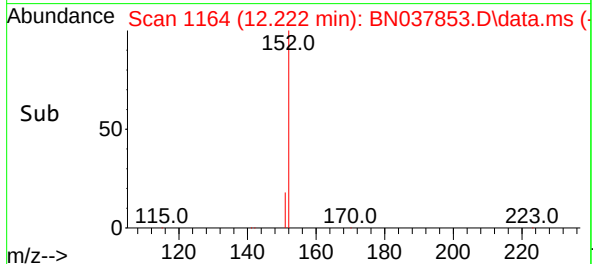
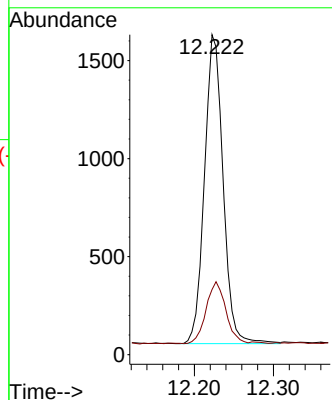
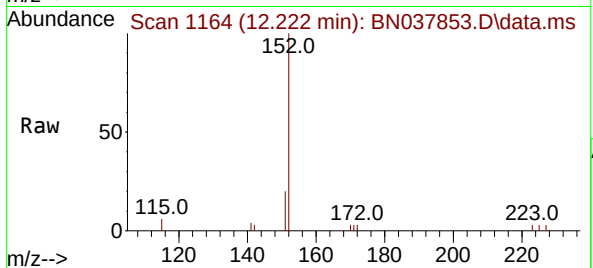




#11
2-Methylnaphthalene-d10
Concen: 0.145 ng
RT: 12.222 min Scan# 1164
Delta R.T. -0.021 min
Lab File: BN037853.D
Acq: 22 Sep 2025 12:44

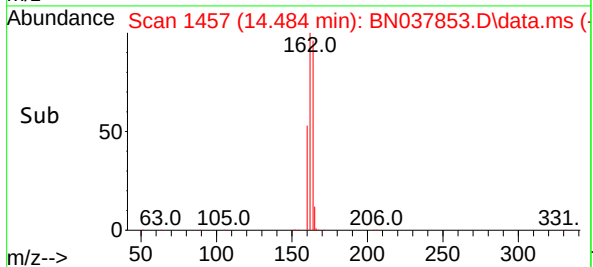
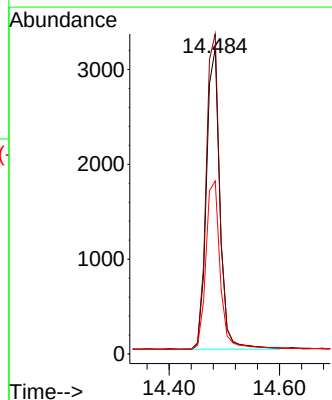
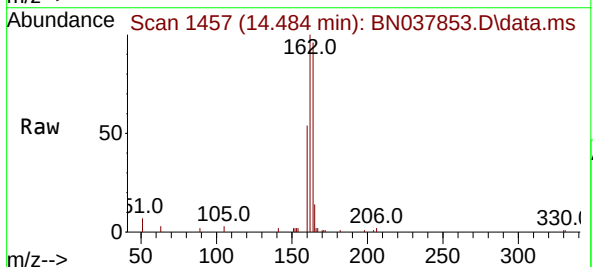
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250915DL

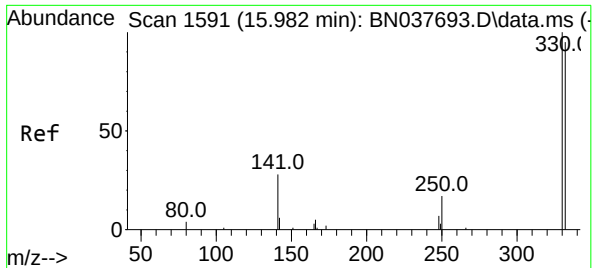
Tgt Ion:152 Resp: 2583
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037853.D
Acq: 22 Sep 2025 12:44

Tgt Ion:164 Resp: 5405
Ion Ratio Lower Upper
164 100
162 104.7 83.1 124.7
160 56.6 44.3 66.5

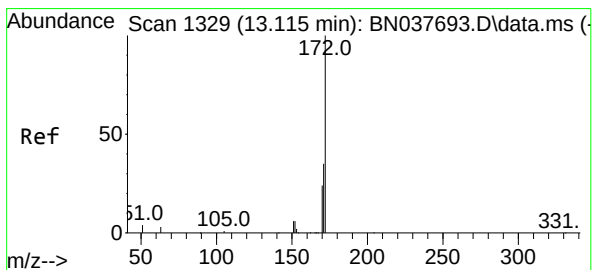
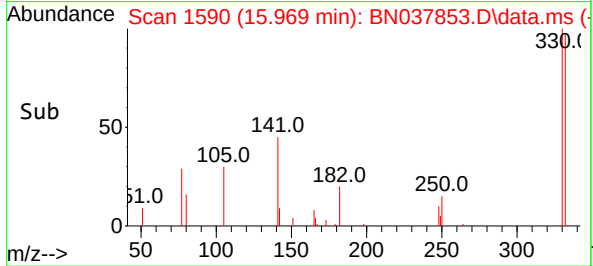
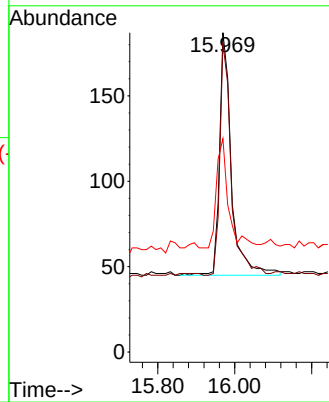
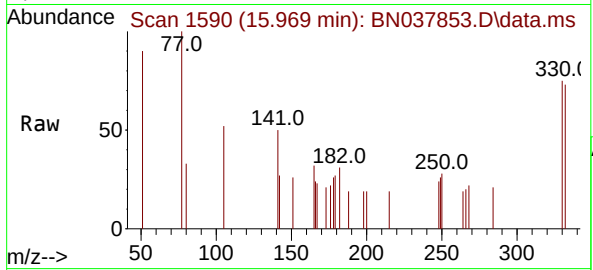




#14
2,4,6-Tribromophenol
Concen: 0.217 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037853.D
Acq: 22 Sep 2025 12:44

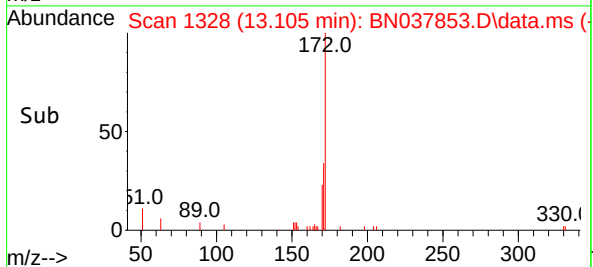
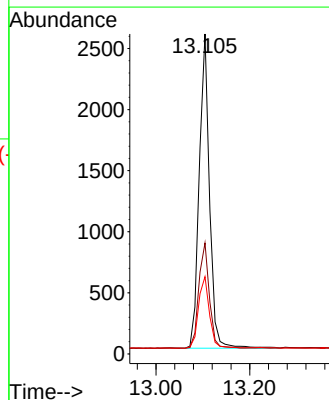
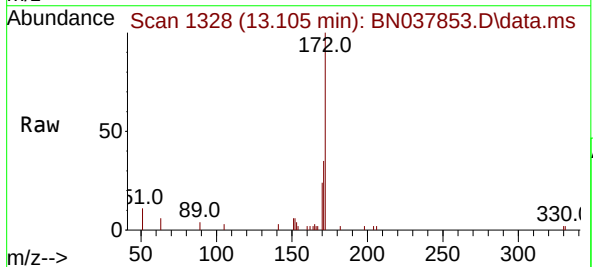
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250915DL

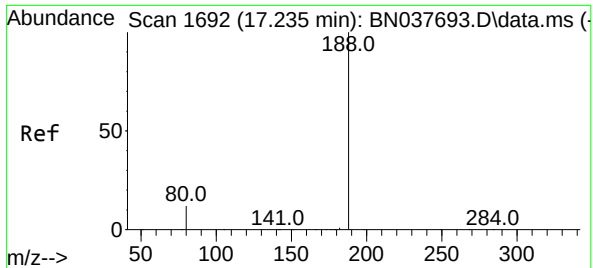
Tgt Ion:	330	Resp:	306
Ion Ratio	Lower	Upper	
330	100		
332	91.2	75.3	112.9
141	47.4	35.0	52.4



#15
2-Fluorobiphenyl
Concen: 0.173 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037853.D
Acq: 22 Sep 2025 12:44

Tgt Ion:	172	Resp:	3918
Ion Ratio	Lower	Upper	
172	100		
171	34.7	28.6	43.0
170	24.1	19.8	29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1

Delta R.T. -0.013 min

Lab File: BN037853.D

Acq: 22 Sep 2025 12:44

Instrument :

BNA_N

ClientSampleId :

RE131D1-20250915DL

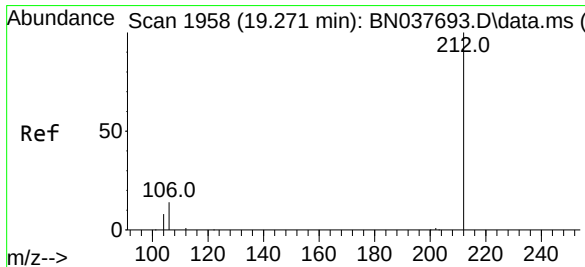
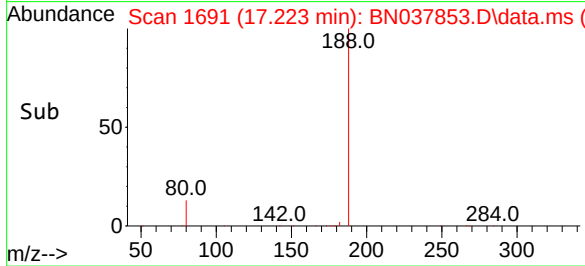
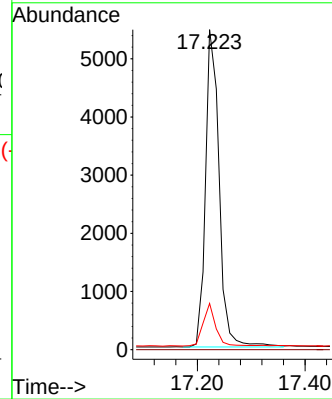
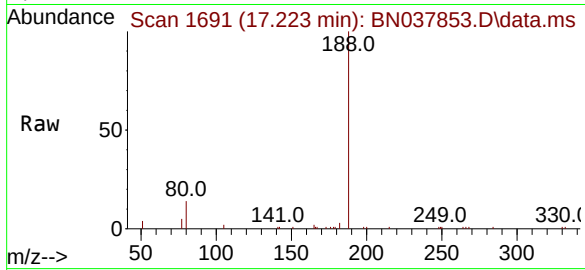
Tgt Ion:188 Resp: 9591

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.4 10.6 15.8



#27

Fluoranthene-d10

Concen: 0.187 ng

RT: 19.257 min Scan# 1955

Delta R.T. -0.014 min

Lab File: BN037853.D

Acq: 22 Sep 2025 12:44

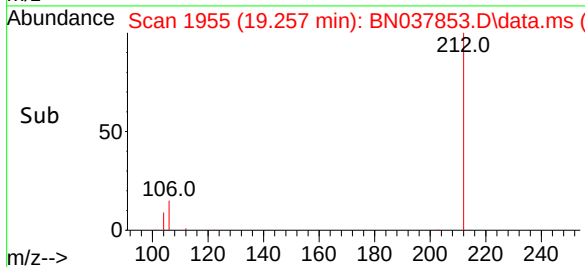
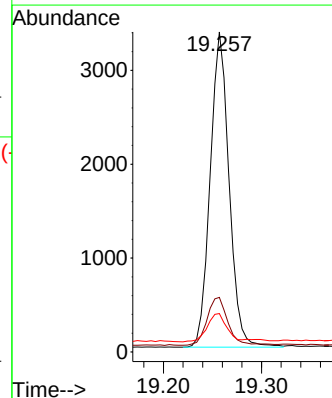
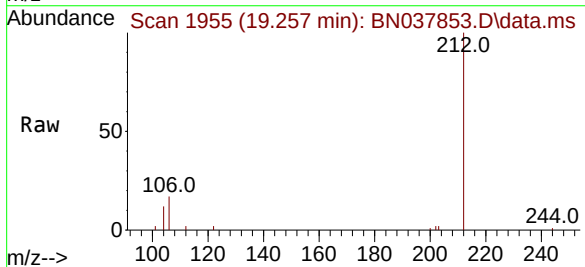
Tgt Ion:212 Resp: 4496

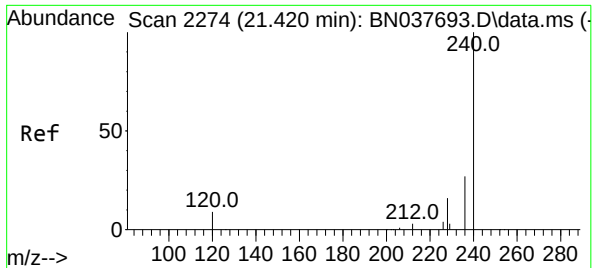
Ion Ratio Lower Upper

212 100

106 16.6 12.2 18.2

104 9.2 6.9 10.3

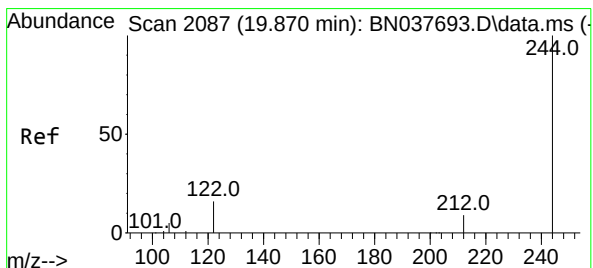
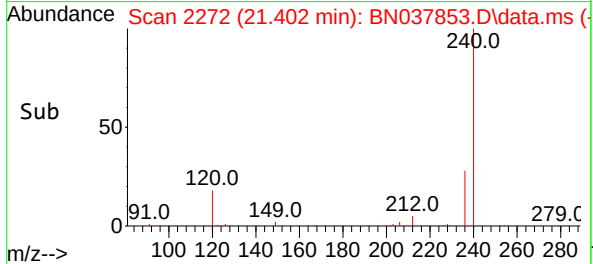
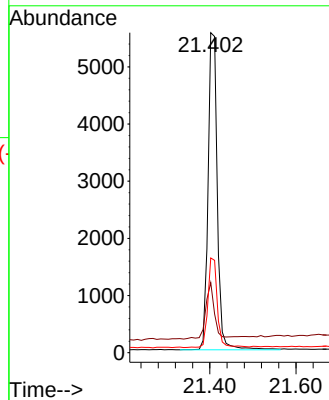
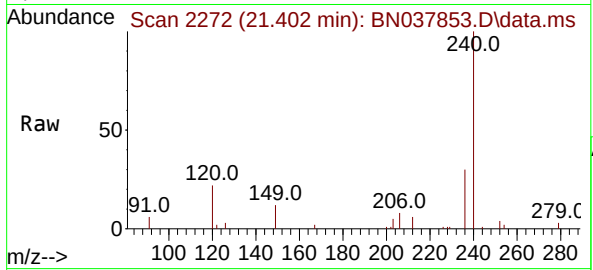




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037853.D
Acq: 22 Sep 2025 12:44

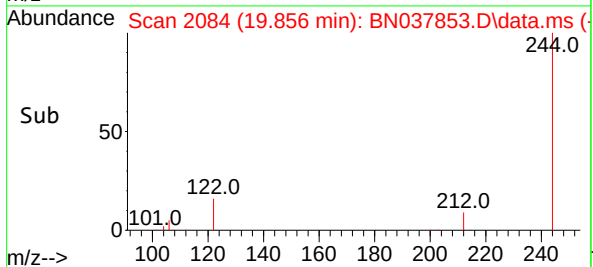
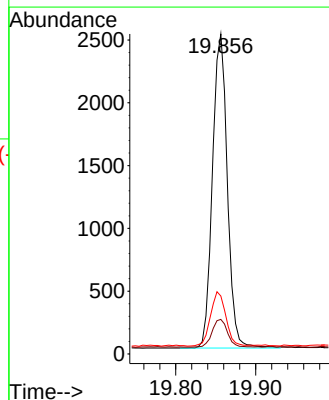
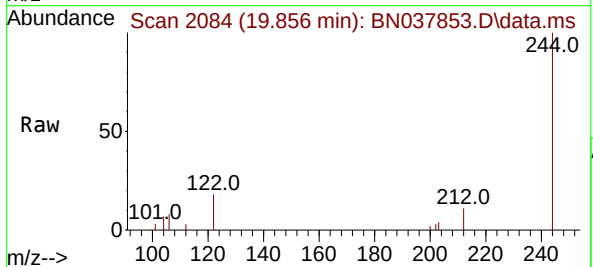
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250915DL

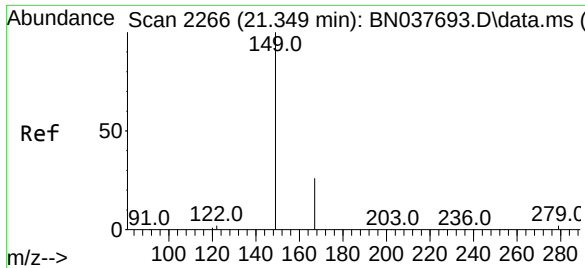
Tgt Ion:240 Resp: 8310
Ion Ratio Lower Upper
240 100
120 21.9 9.2 13.8#
236 29.6 22.6 33.8



#31
Terphenyl-d14
Concen: 0.192 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037853.D
Acq: 22 Sep 2025 12:44

Tgt Ion:244 Resp: 3233
Ion Ratio Lower Upper
244 100
212 10.8 7.5 11.3
122 18.1 13.2 19.8

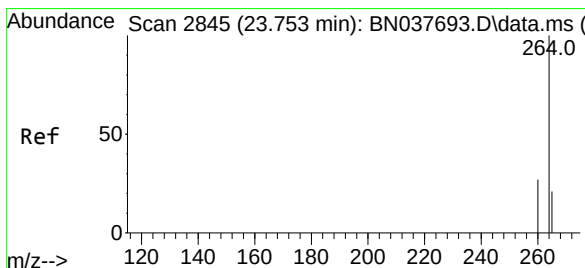
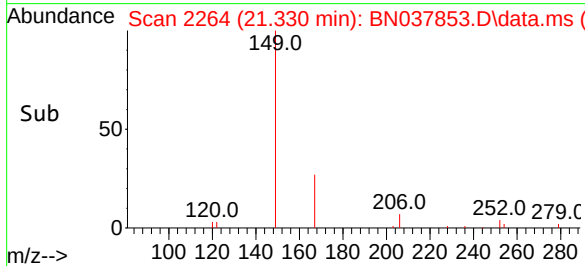
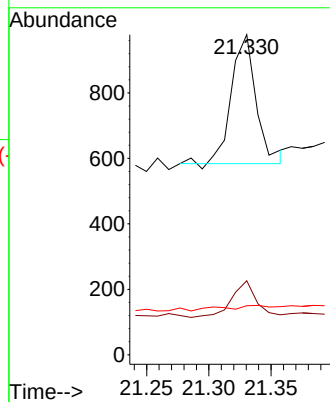
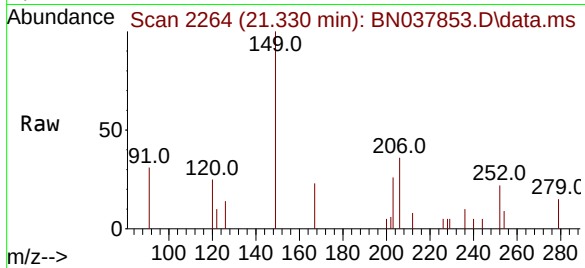




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.064 ng
RT: 21.330 min Scan# 21330
Delta R.T. -0.018 min
Lab File: BN037853.D
Acq: 22 Sep 2025 12:44

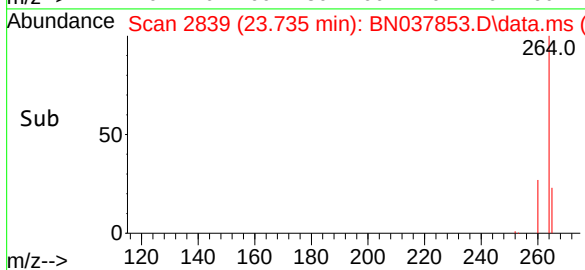
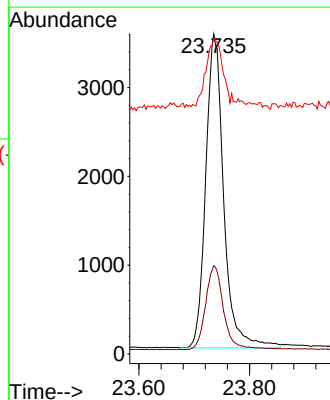
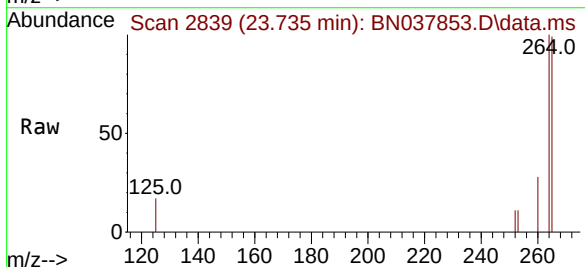
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250915DL

Tgt Ion:149 Resp: 549
Ion Ratio Lower Upper
149 100
167 28.4 20.8 31.2
279 2.9 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.735 min Scan# 2839
Delta R.T. -0.018 min
Lab File: BN037853.D
Acq: 22 Sep 2025 12:44

Tgt Ion:264 Resp: 7982
Ion Ratio Lower Upper
264 100
260 27.6 21.8 32.8
265 98.6 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/15/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/17/25
Client Sample ID:	RE131D2-20250915	SDG No.:	Q3127
Lab Sample ID:	Q3127-03	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
BN037827.D	1	09/18/25 11:35	09/19/25 22:50	PB169743

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	7.50	E	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	0.37		30 - 150		92%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		80%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		79%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.35		58 - 132		88%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4300		7.826			
1146-65-2	Naphthalene-d8	11100		10.637			
15067-26-2	Acenaphthene-d10	4600		14.484			
1517-22-2	Phenanthrene-d10	8410		17.223			
1719-03-5	Chrysene-d12	8080		21.402			
1520-96-3	Perylene-d12	7770		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 : BN037827.D
Acq On : 19 Sep 2025 22:50
Operator : RC/JU
Sample : Q3127-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250915

Quant Time: Sep 19 23:51:20 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

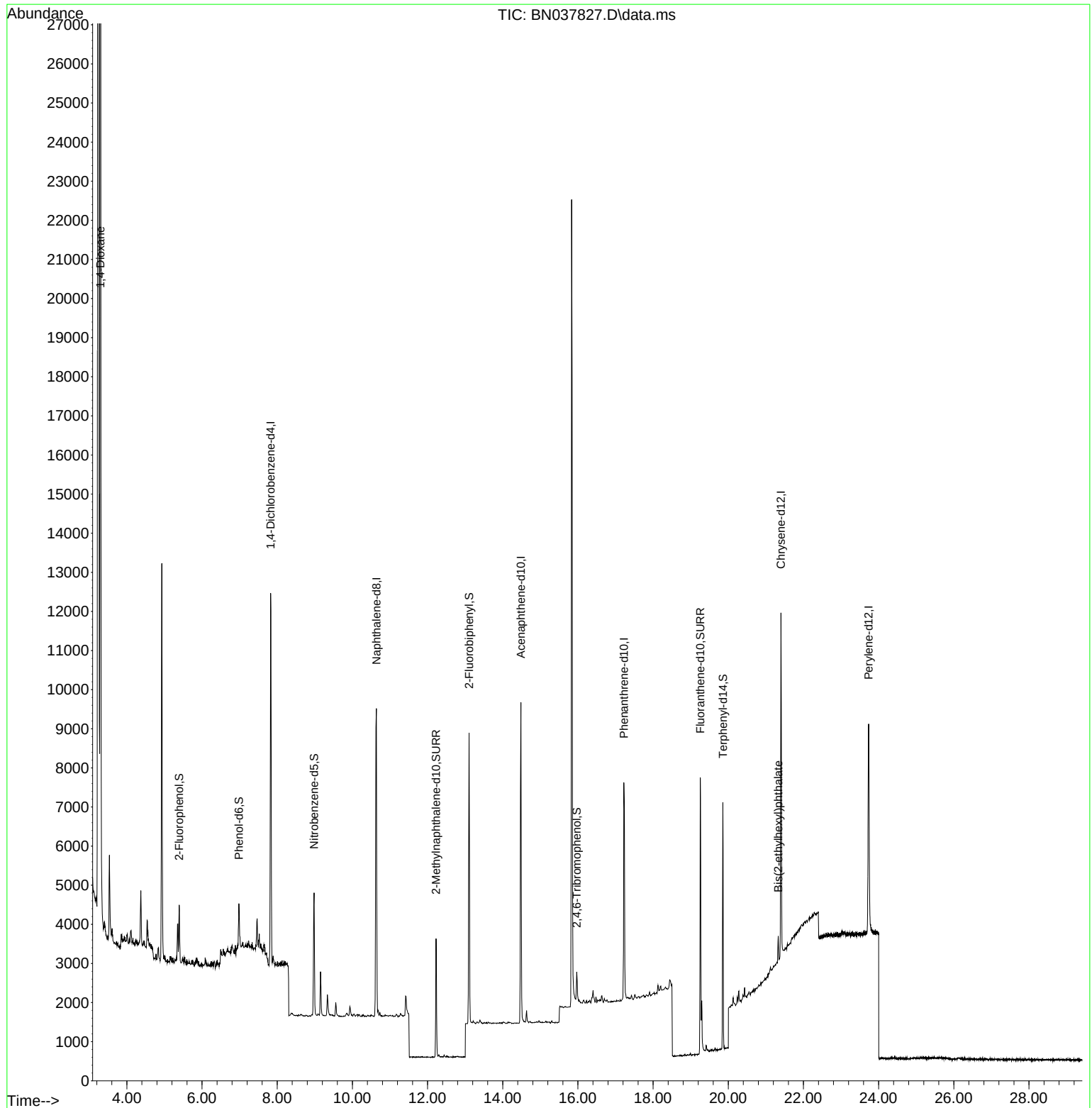
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.826	152	4301	0.400	ng	-0.01
7) Naphthalene-d8	10.637	136	11071	0.400	ng	#-0.01
13) Acenaphthene-d10	14.484	164	4603	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	8412	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	8082	0.400	ng	#-0.02
35) Perylene-d12	23.736	264	7770	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1121	0.114	ng	0.00
5) Phenol-d6	6.981	99	961	0.075	ng	0.00
8) Nitrobenzene-d5	8.982	82	2580	0.319	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	4079	0.278	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	488	0.406	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	6049	0.314	ng	-0.01
27) Fluoranthene-d10	19.257	212	7746	0.367	ng	-0.01
31) Terphenyl-d14	19.857	244	5796	0.353	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	33703	7.523	ng	96
34) Bis(2-ethylhexyl)phtha...	21.331	149	805	0.096	ng	# 91

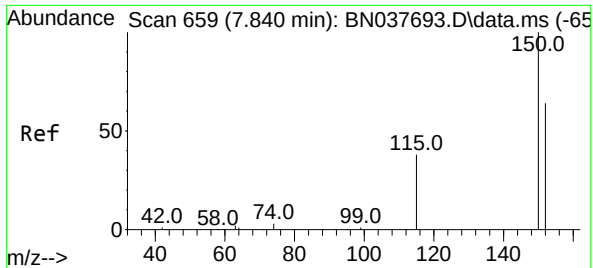
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037827.D
Acq On : 19 Sep 2025 22:50
Operator : RC/JU
Sample : Q3127-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250915

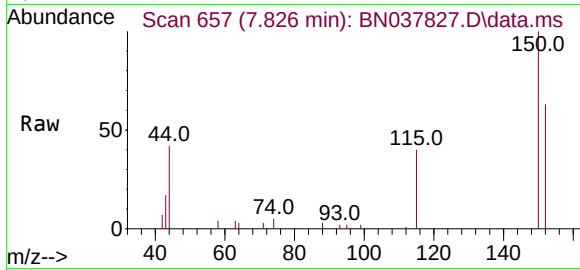
Quant Time: Sep 19 23:51:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



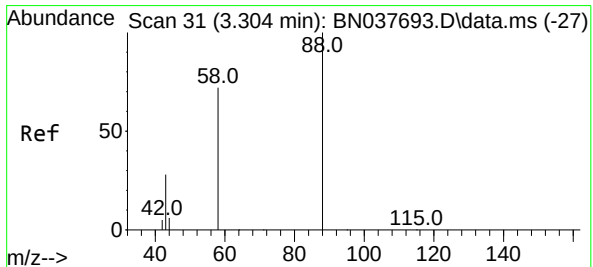
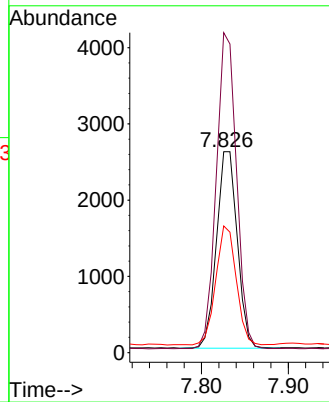
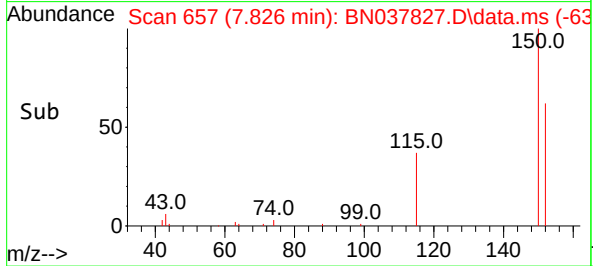


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 61
Delta R.T. -0.014 min
Lab File: BN037827.D
Acq: 19 Sep 2025 22:50

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250915

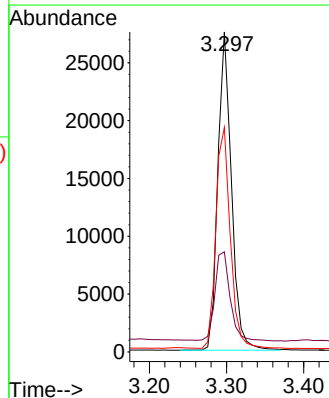
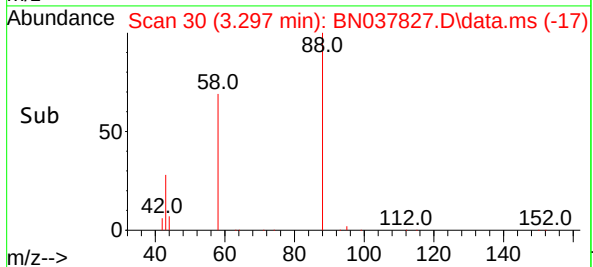
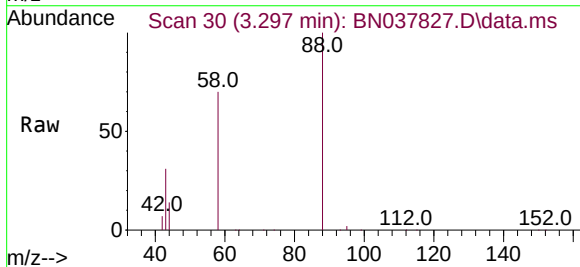


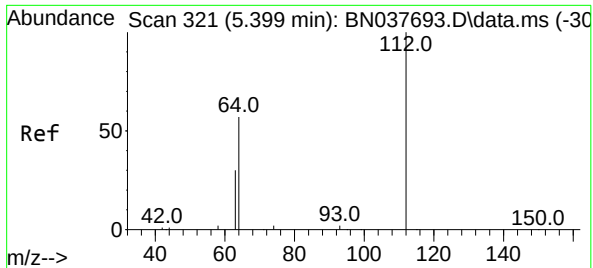
Tgt Ion:152 Resp: 4301
Ion Ratio Lower Upper
152 100
150 159.3 124.5 186.7
115 63.0 49.2 73.8



#2
1,4-Dioxane
Concen: 7.523 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037827.D
Acq: 19 Sep 2025 22:50

Tgt Ion: 88 Resp: 33703
Ion Ratio Lower Upper
88 100
43 31.3 26.8 40.2
58 73.3 61.9 92.9

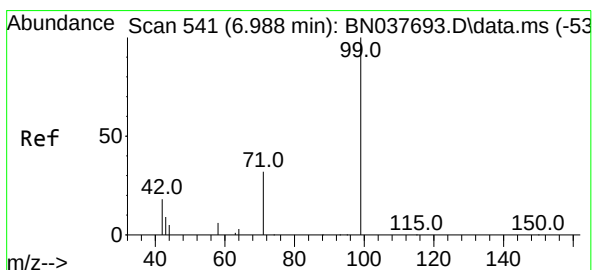
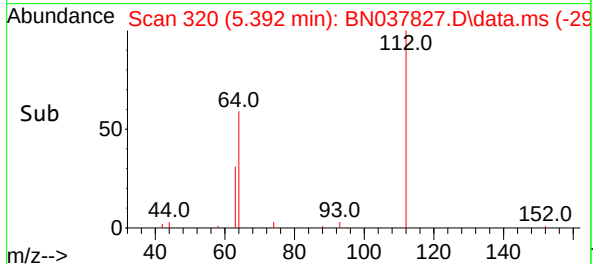
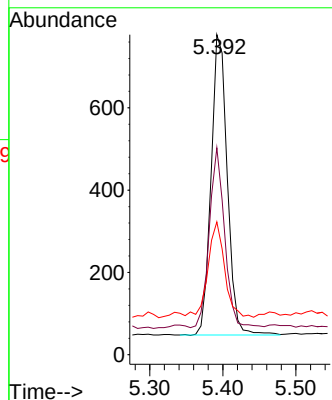
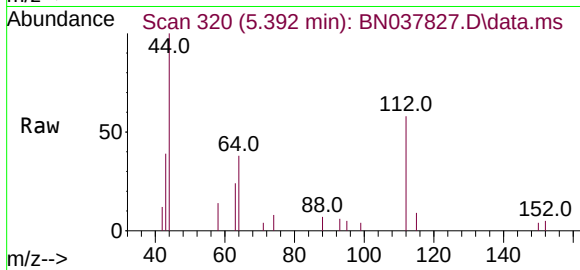




#4
2-Fluorophenol
Concen: 0.114 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037827.D
Acq: 19 Sep 2025 22:50

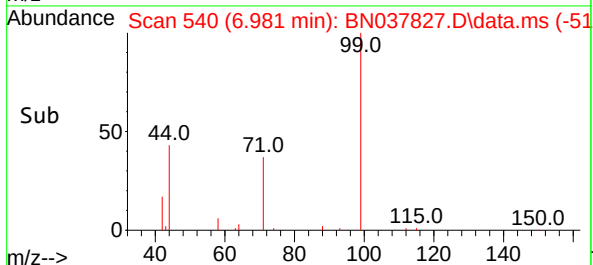
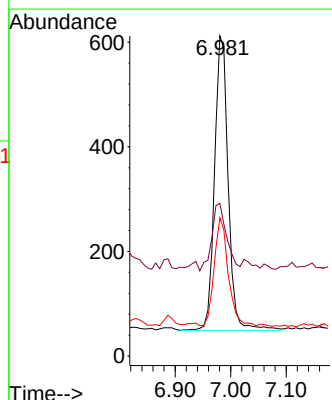
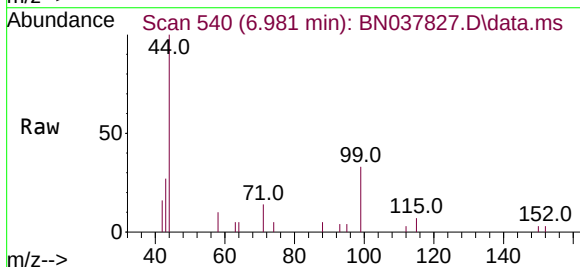
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250915

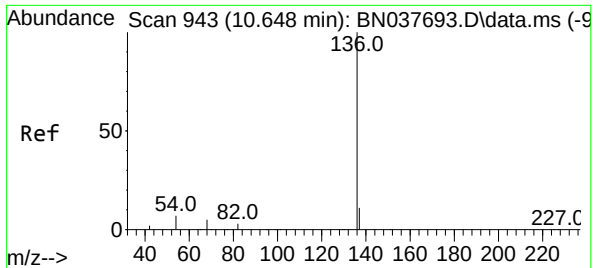
Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.1	44.9	67.3
63	32.4	24.7	37.1



#5
Phenol-d6
Concen: 0.075 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037827.D
Acq: 19 Sep 2025 22:50

Tgt Ion	Ratio	Lower	Upper
99	100		
42	24.7	16.6	24.8
71	37.3	26.7	40.1

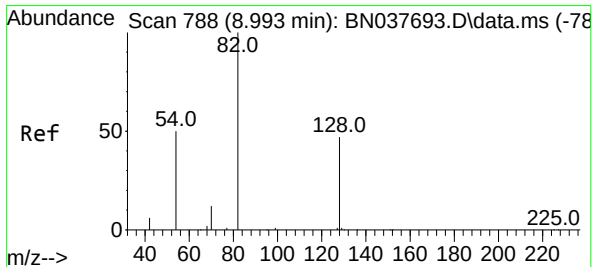
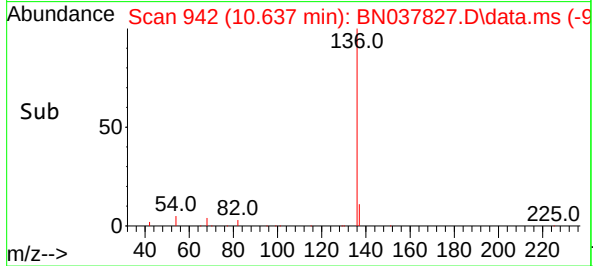
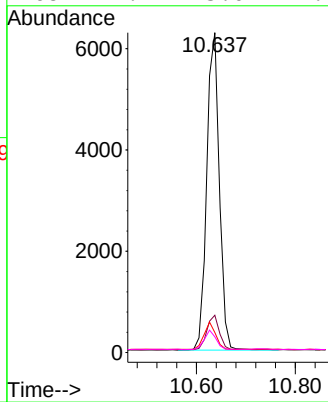
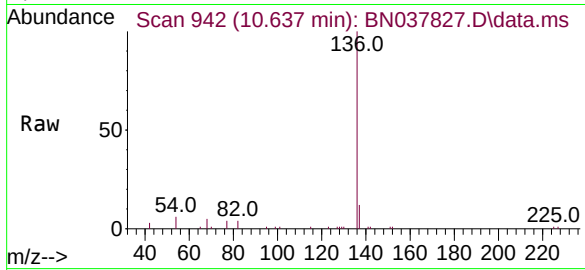




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037827.D
Acq: 19 Sep 2025 22:50

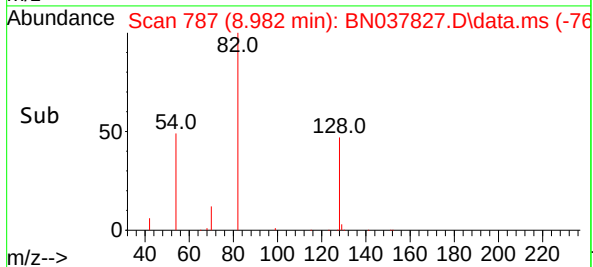
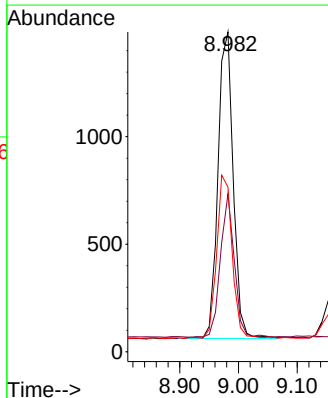
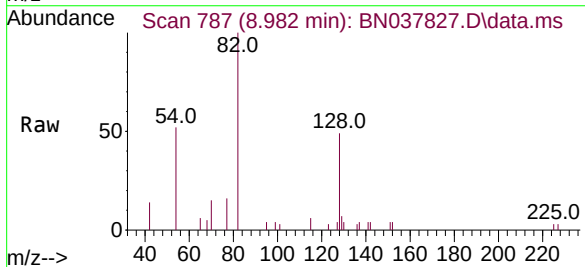
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250915

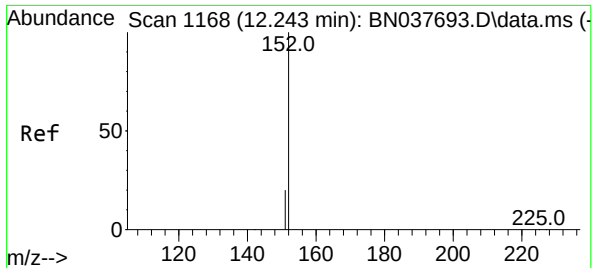
Tgt Ion:	136	Resp:	11071
Ion Ratio	Lower	Upper	
136	100		
137	11.7	9.1	13.7
54	6.3	6.3	9.5#
68	4.9	5.0	7.4#



#8
Nitrobenzene-d5
Concen: 0.319 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037827.D
Acq: 19 Sep 2025 22:50

Tgt Ion:	82	Resp:	2580
Ion Ratio	Lower	Upper	
82	100		
128	49.4	38.3	57.5
54	51.5	41.4	62.2

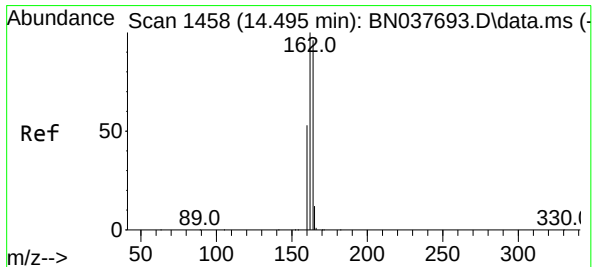
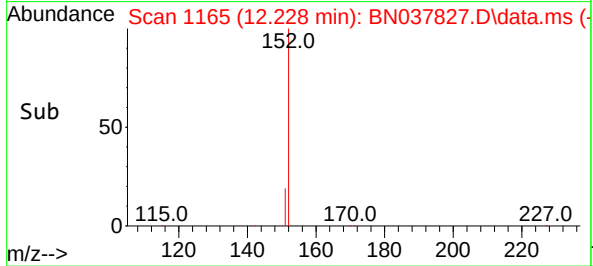
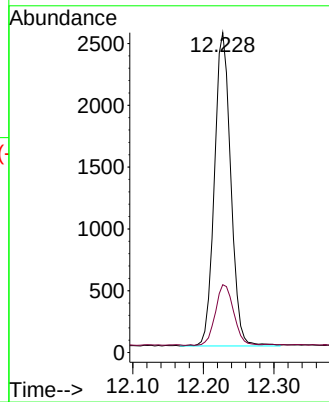
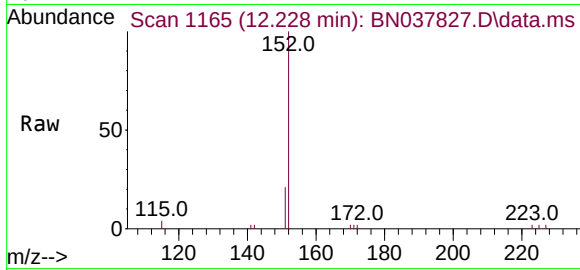




#11
2-Methylnaphthalene-d10
Concen: 0.278 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037827.D
Acq: 19 Sep 2025 22:50

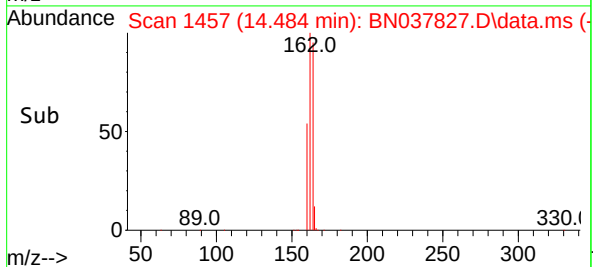
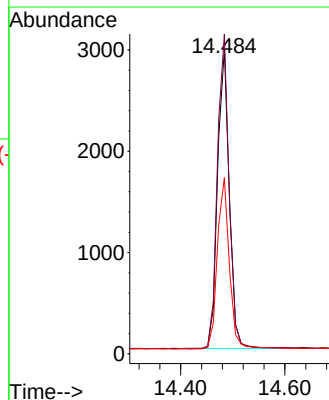
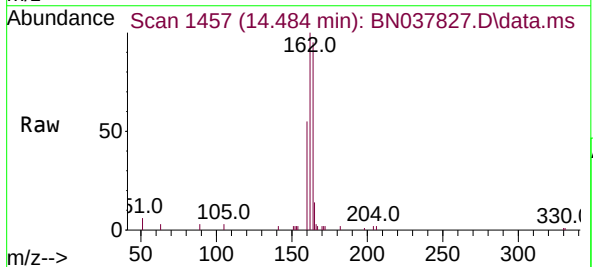
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250915

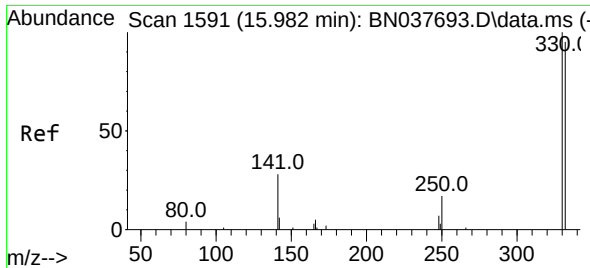
Tgt Ion:152 Resp: 4079
Ion Ratio Lower Upper
152 100
151 21.5 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037827.D
Acq: 19 Sep 2025 22:50

Tgt Ion:164 Resp: 4603
Ion Ratio Lower Upper
164 100
162 105.2 83.1 124.7
160 57.9 44.3 66.5

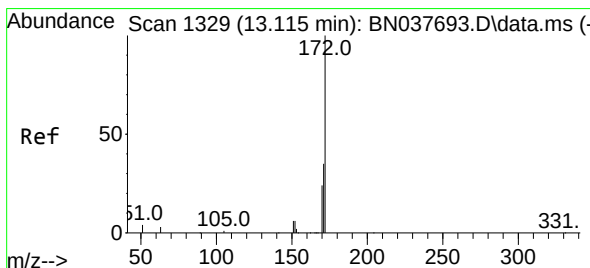
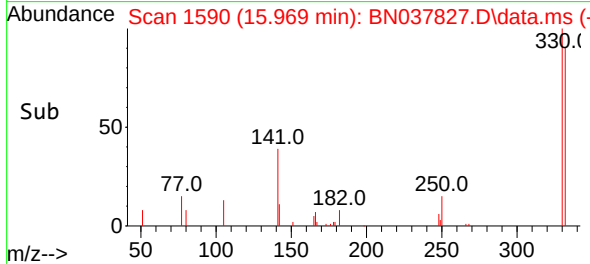
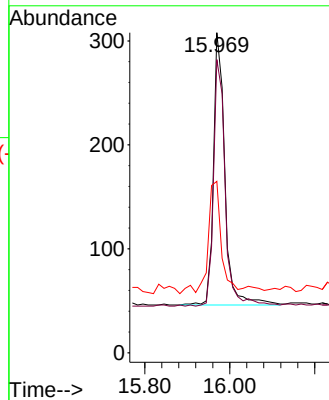
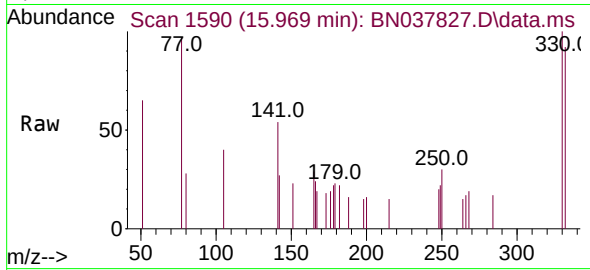




#14
2,4,6-Tribromophenol
Concen: 0.406 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037827.D
Acq: 19 Sep 2025 22:50

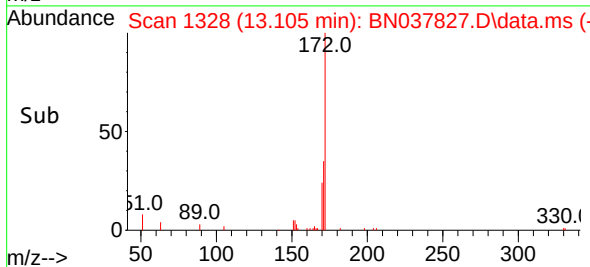
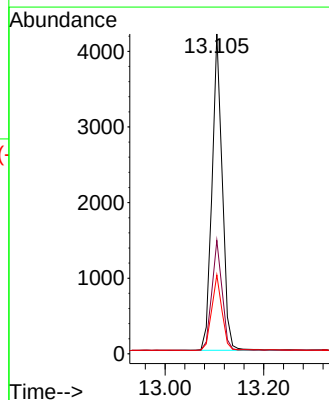
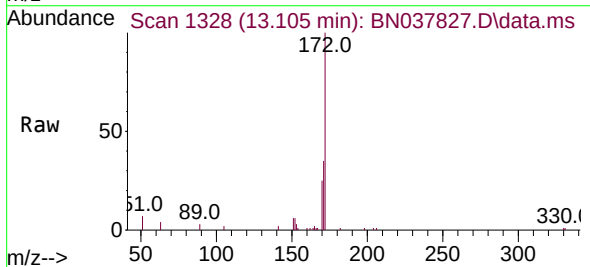
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250915

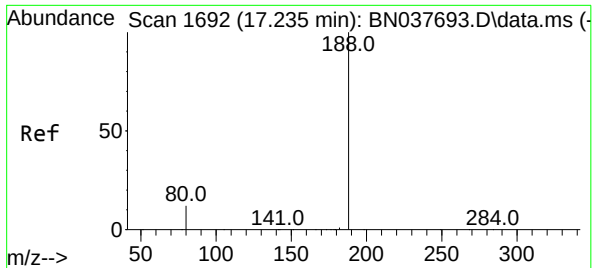
Tgt Ion	330	Resp	488
Ion Ratio	100		
Lower	75.3		
Upper	112.9		



#15
2-Fluorobiphenyl
Concen: 0.314 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037827.D
Acq: 19 Sep 2025 22:50

Tgt Ion	172	Resp	6049
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower	28.6		
Upper	43.0		

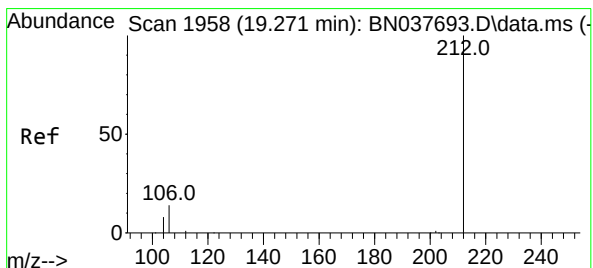
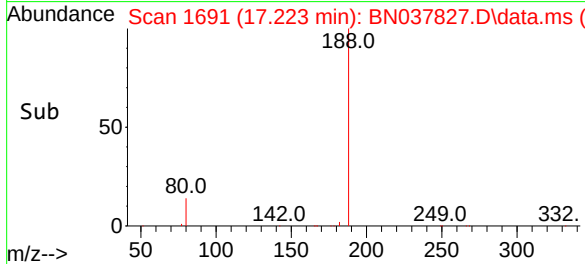
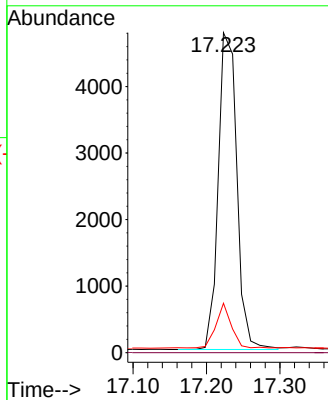
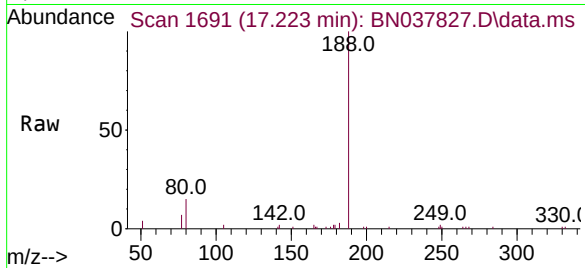




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.012 min
Lab File: BN037827.D
Acq: 19 Sep 2025 22:50

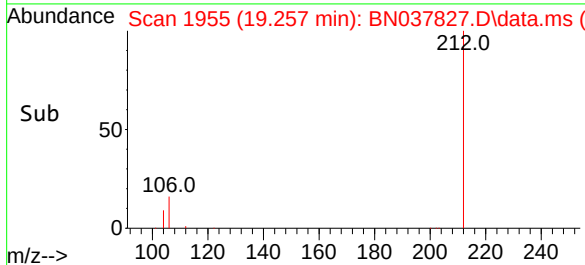
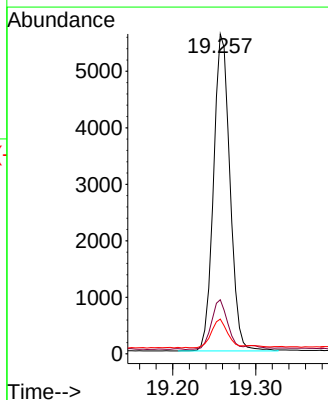
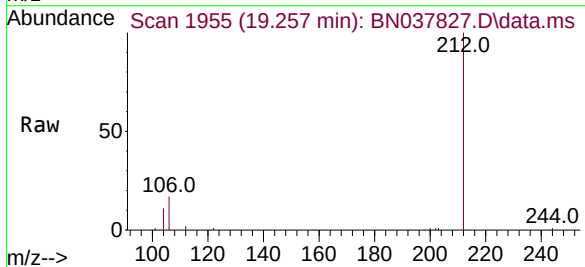
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250915

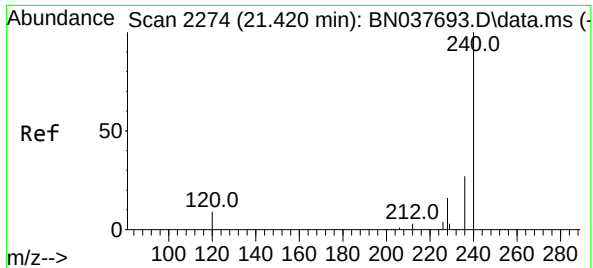
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.4	10.6	15.8



#27
Fluoranthene-d10
Concen: 0.367 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037827.D
Acq: 19 Sep 2025 22:50

Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.5	12.2	18.2
104	8.8	6.9	10.3

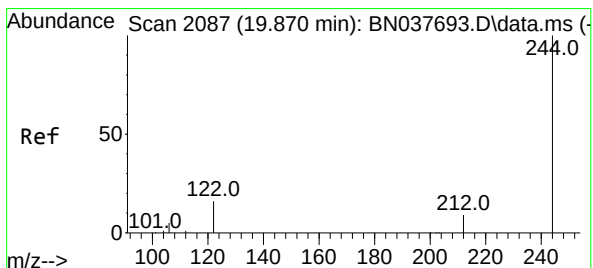
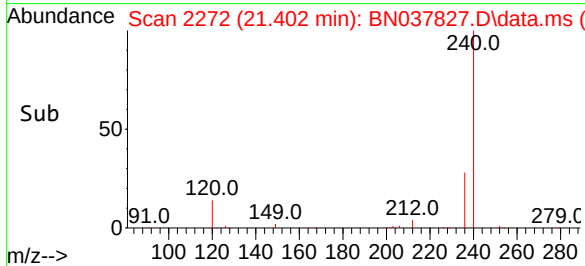
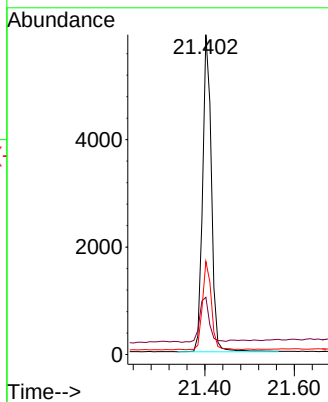
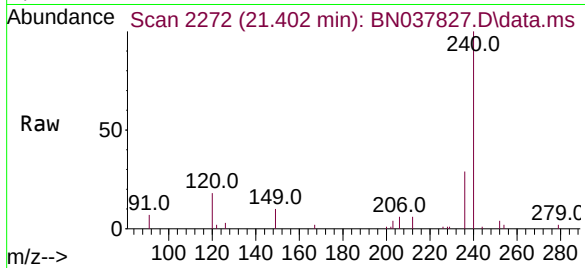




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037827.D
Acq: 19 Sep 2025 22:50

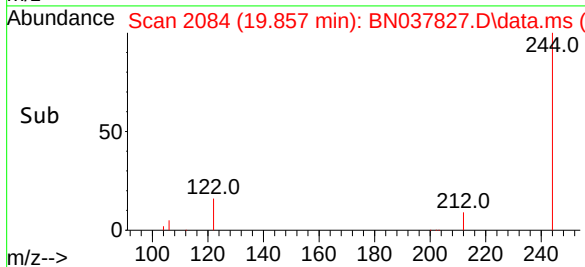
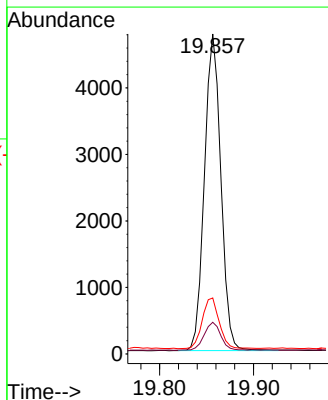
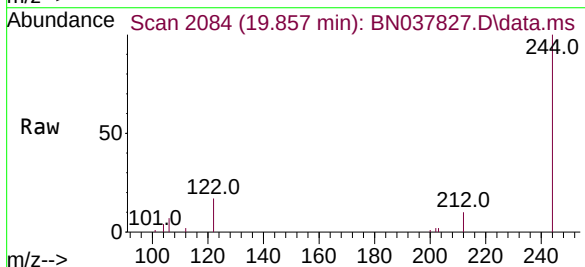
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250915

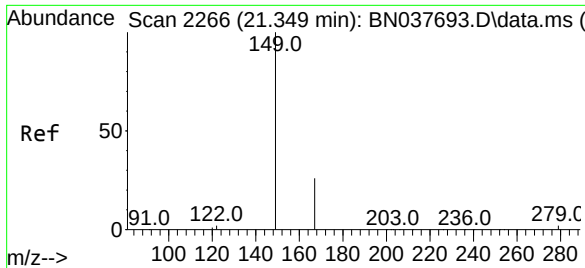
Tgt Ion:240 Resp: 8082
Ion Ratio Lower Upper
240 100
120 17.9 9.2 13.8#
236 29.1 22.6 33.8



#31
Terphenyl-d14
Concen: 0.353 ng
RT: 19.857 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037827.D
Acq: 19 Sep 2025 22:50

Tgt Ion:244 Resp: 5796
Ion Ratio Lower Upper
244 100
212 9.9 7.5 11.3
122 17.5 13.2 19.8

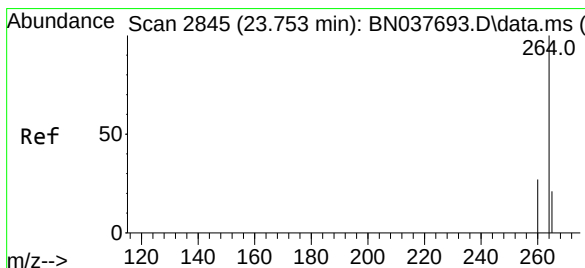
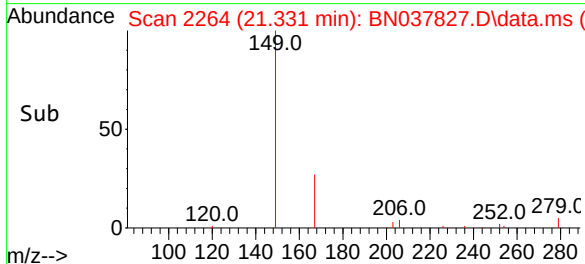
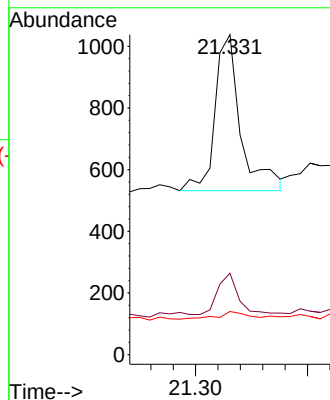
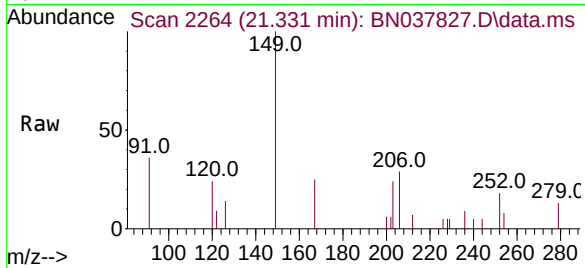




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.096 ng
RT: 21.331 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037827.D
Acq: 19 Sep 2025 22:50

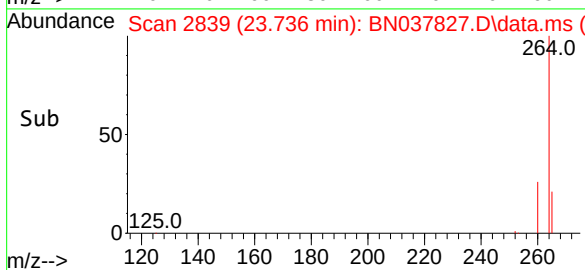
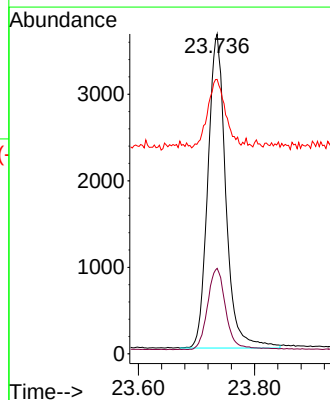
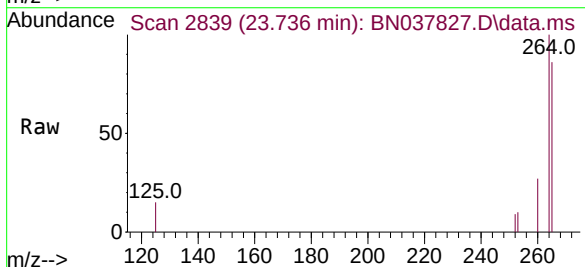
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250915

Tgt Ion:149 Resp: 805
Ion Ratio Lower Upper
149 100
167 21.1 20.8 31.2
279 5.5 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: BN037827.D
Acq: 19 Sep 2025 22:50

Tgt Ion:264 Resp: 7770
Ion Ratio Lower Upper
264 100
260 26.7 21.8 32.8
265 85.8 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/15/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/17/25
Client Sample ID:	RE131D2-20250915DL	SDG No.:	Q3127
Lab Sample ID:	Q3127-03DL	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
BN037854.D	2	09/18/25 11:35	09/22/25 13:20	PB169743

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	7.90	D	0.13	0.40	0.40	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		92%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		84%	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	5540		7.825			
1146-65-2	Naphthalene-d8	14300		10.626			
15067-26-2	Acenaphthene-d10	5840		14.484			
1517-22-2	Phenanthrene-d10	9810		17.223			
1719-03-5	Chrysene-d12	8400		21.402			
1520-96-3	Perylene-d12	8110		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\BN092225\
Data File : BN037854.D
Acq On : 22 Sep 2025 13:20
Operator : RC/JU
Sample : Q3127-03DL 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250915DL

Quant Time: Sep 22 14:01:34 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

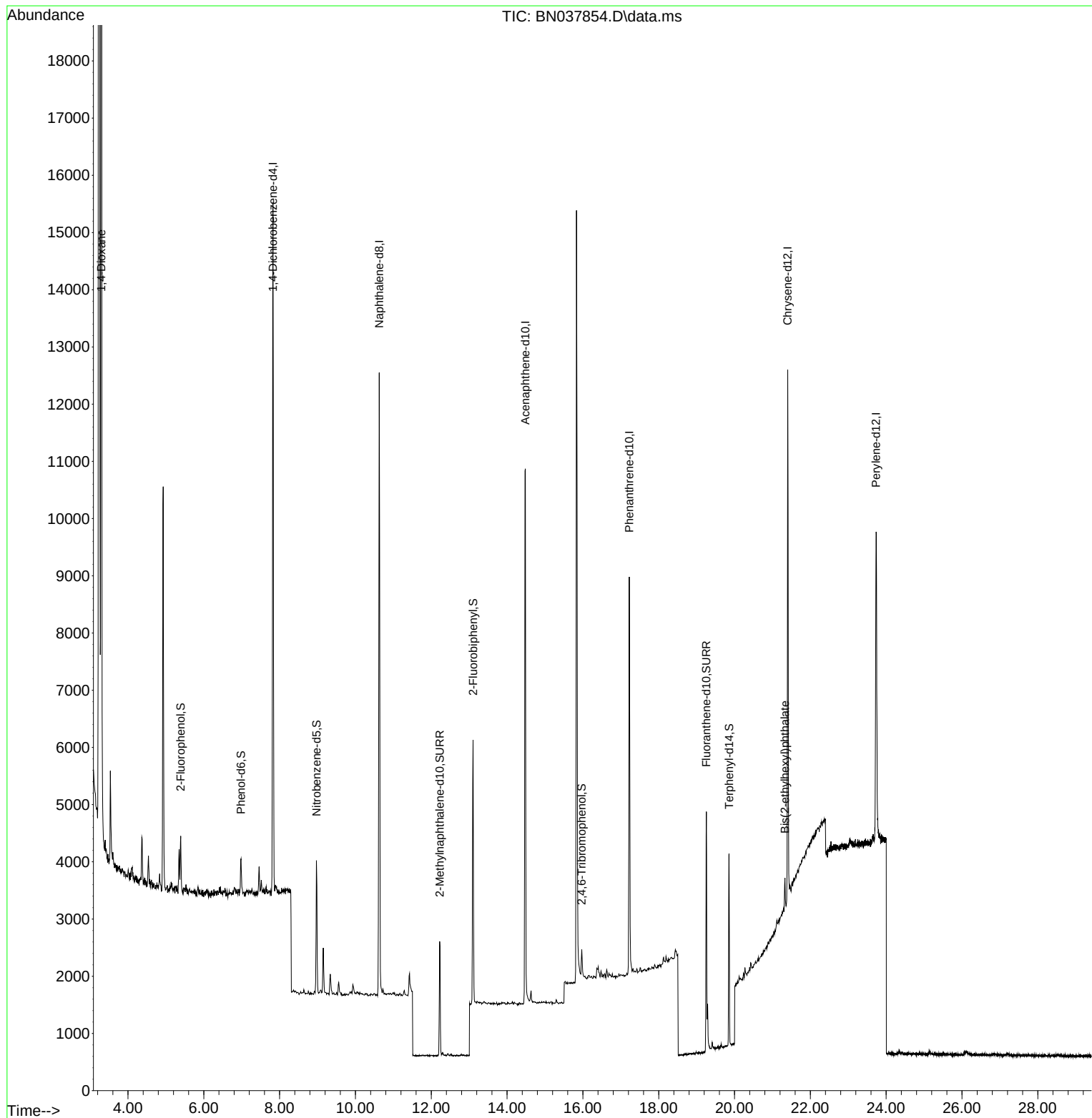
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5543	0.400	ng	-0.01
7) Naphthalene-d8	10.626	136	14287	0.400	ng	-0.02
13) Acenaphthene-d10	14.484	164	5844	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	9811	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	8402	0.400	ng	#-0.02
35) Perylene-d12	23.736	264	8112	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	781	0.061	ng	0.00
5) Phenol-d6	6.980	99	574	0.035	ng	0.00
8) Nitrobenzene-d5	8.971	82	1845	0.177	ng	-0.02
11) 2-Methylnaphthalene-d10	12.222	152	2746	0.145	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	309	0.203	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	4134	0.169	ng	-0.01
27) Fluoranthene-d10	19.257	212	4520	0.184	ng	-0.01
31) Terphenyl-d14	19.856	244	3261	0.191	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	22805	3.950	ng	96
34) Bis(2-ethylhexyl)phtha...	21.331	149	587	0.068	ng	# 93

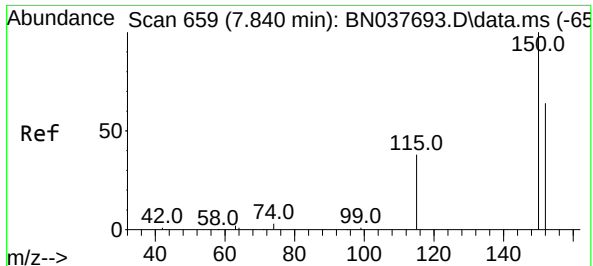
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037854.D
Acq On : 22 Sep 2025 13:20
Operator : RC/JU
Sample : Q3127-03DL 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250915DL

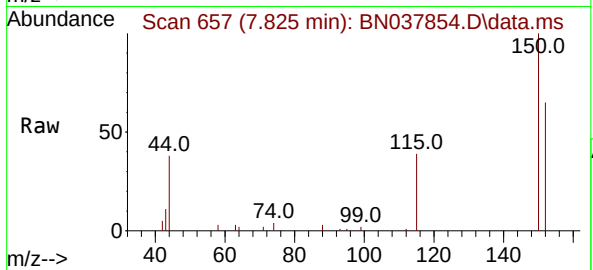
Quant Time: Sep 22 14:01:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



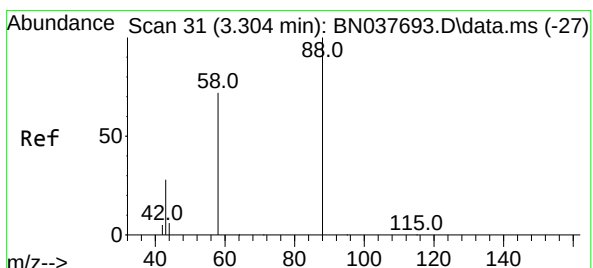
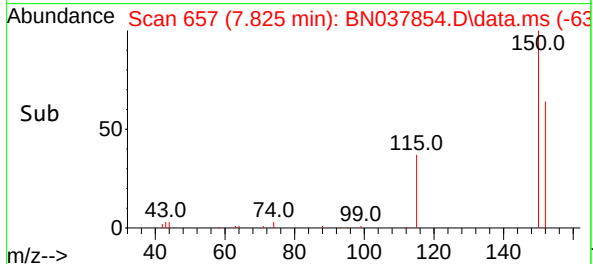
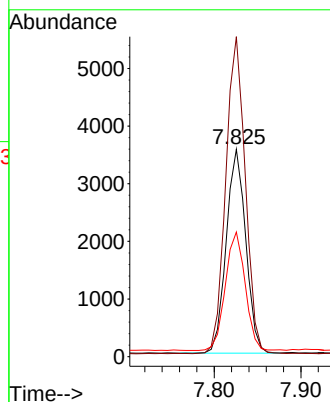


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN037854.D
Acq: 22 Sep 2025 13:20

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250915DL

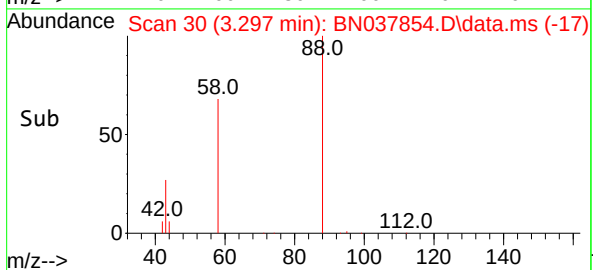
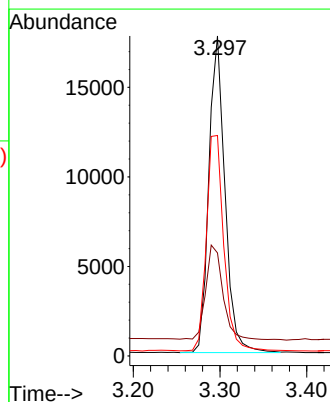
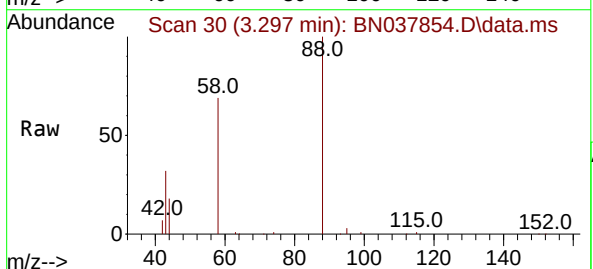


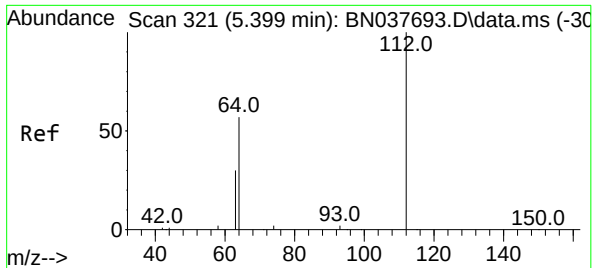
Tgt Ion: 152 Resp: 5543
Ion Ratio Lower Upper
152 100
150 154.3 124.5 186.7
115 60.1 49.2 73.8



#2
1,4-Dioxane
Concen: 3.950 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037854.D
Acq: 22 Sep 2025 13:20

Tgt Ion: 88 Resp: 22805
Ion Ratio Lower Upper
88 100
43 31.3 26.8 40.2
58 73.8 61.9 92.9

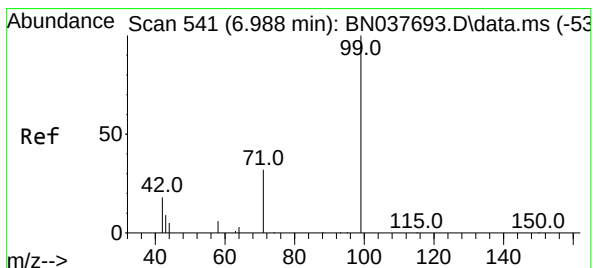
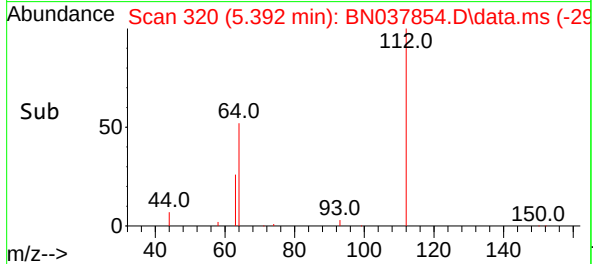
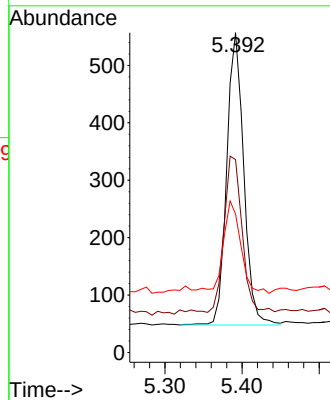
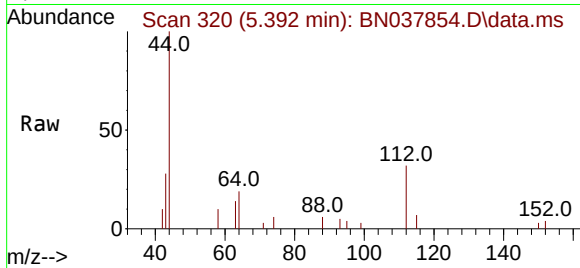




#4
2-Fluorophenol
Concen: 0.061 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037854.D
Acq: 22 Sep 2025 13:20

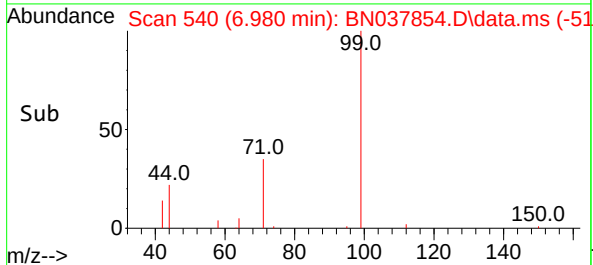
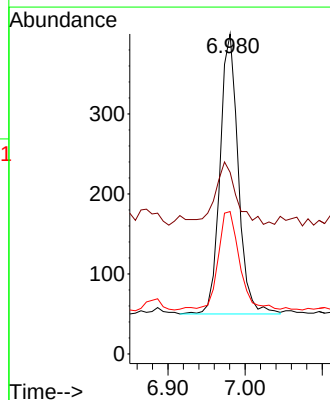
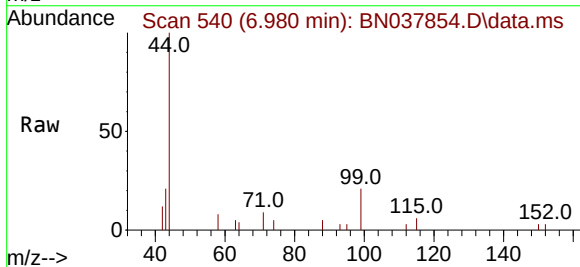
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250915DL

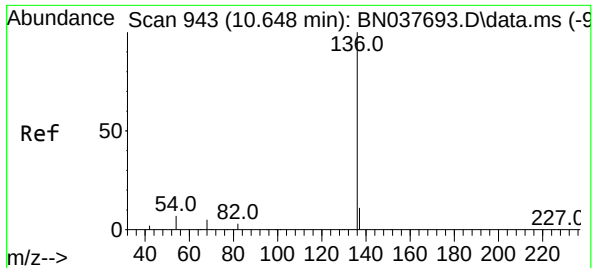
Tgt Ion:112 Resp: 781
Ion Ratio Lower Upper
112 100
64 57.0 44.9 67.3
63 32.7 24.7 37.1



#5
Phenol-d6
Concen: 0.035 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037854.D
Acq: 22 Sep 2025 13:20

Tgt Ion: 99 Resp: 574
Ion Ratio Lower Upper
99 100
42 25.4 16.6 24.8#
71 41.6 26.7 40.1#

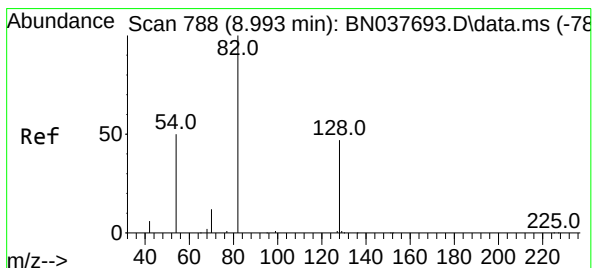
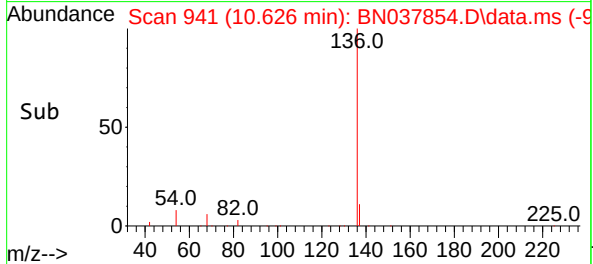
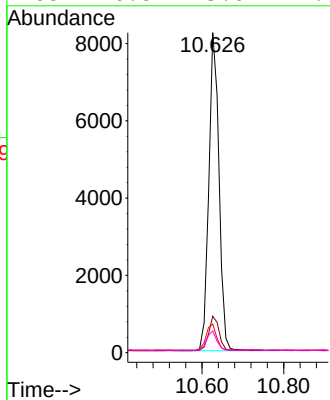
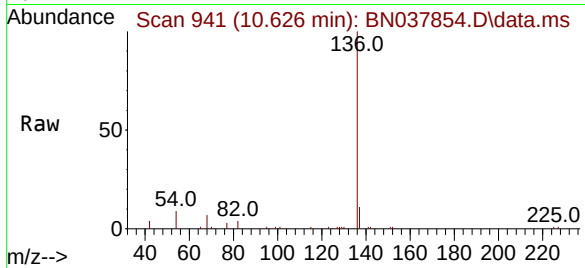




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.021 min
Lab File: BN037854.D
Acq: 22 Sep 2025 13:20

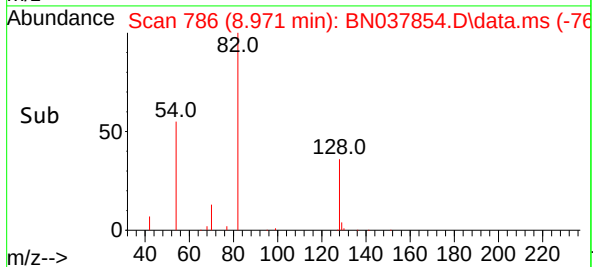
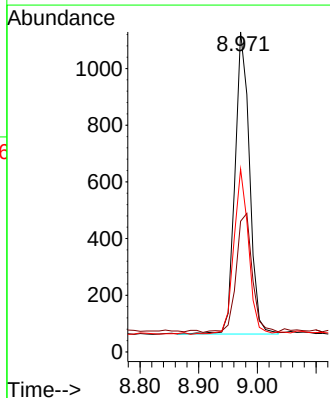
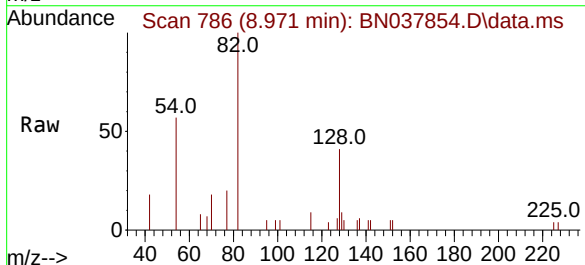
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250915DL

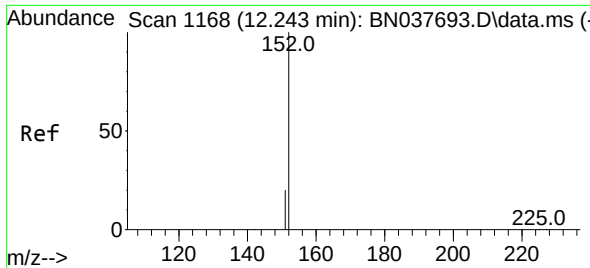
Tgt Ion:	136	Resp:	14287
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	9.0	6.3	9.5
68	6.8	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.177 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.021 min
Lab File: BN037854.D
Acq: 22 Sep 2025 13:20

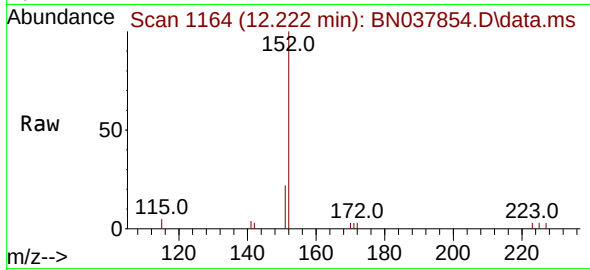
Tgt Ion:	82	Resp:	1845
Ion	Ratio	Lower	Upper
82	100		
128	40.8	38.3	57.5
54	57.1	41.4	62.2



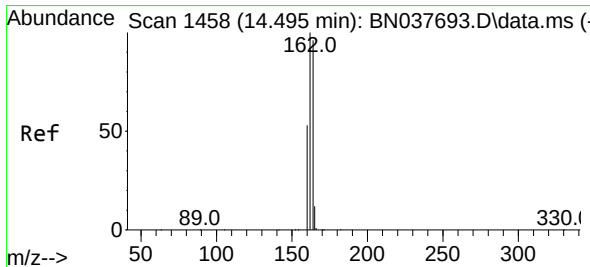
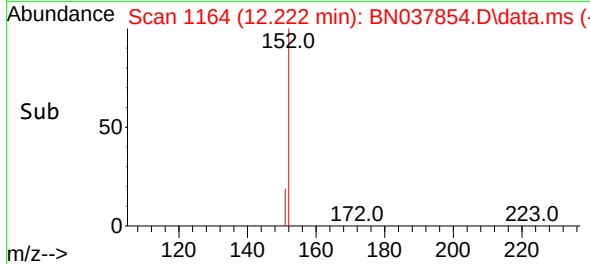
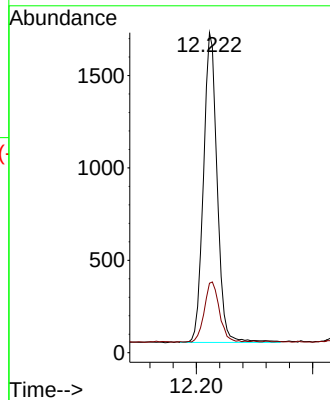


#11
2-Methylnaphthalene-d10
Concen: 0.145 ng
RT: 12.222 min Scan# 1164
Delta R.T. -0.020 min
Lab File: BN037854.D
Acq: 22 Sep 2025 13:20

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250915DL

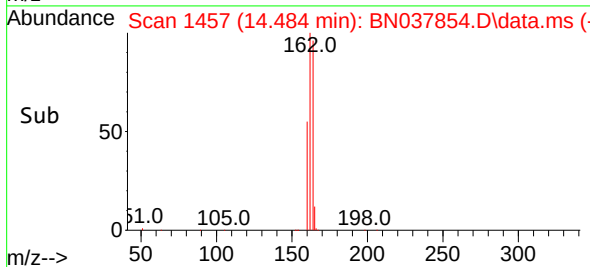
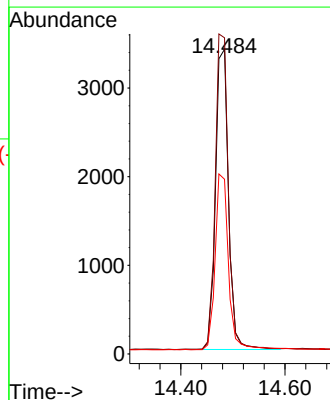
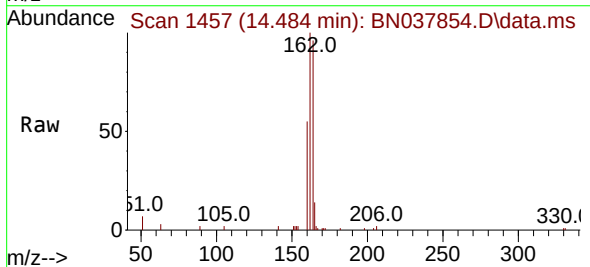


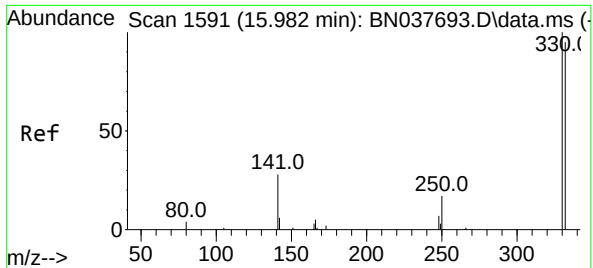
Tgt Ion:152 Resp: 2746
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037854.D
Acq: 22 Sep 2025 13:20

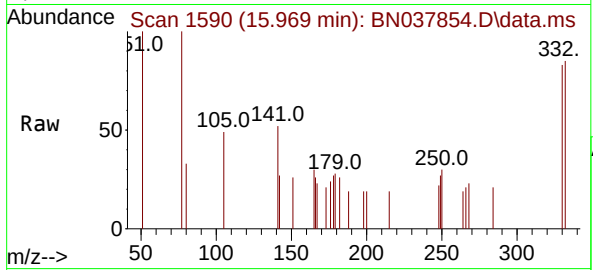
Tgt Ion:164 Resp: 5844
Ion Ratio Lower Upper
164 100
162 103.8 83.1 124.7
160 57.4 44.3 66.5



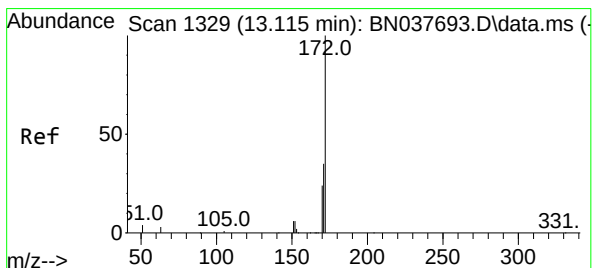
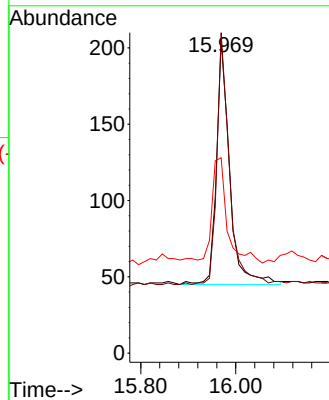
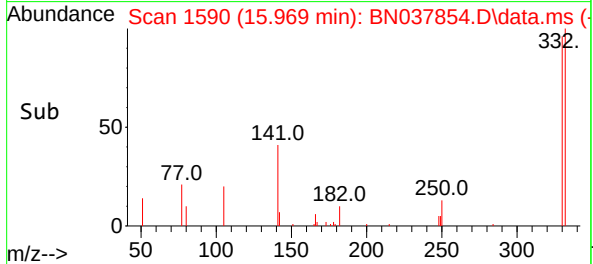


#14
2,4,6-Tribromophenol
Concen: 0.203 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037854.D
Acq: 22 Sep 2025 13:20

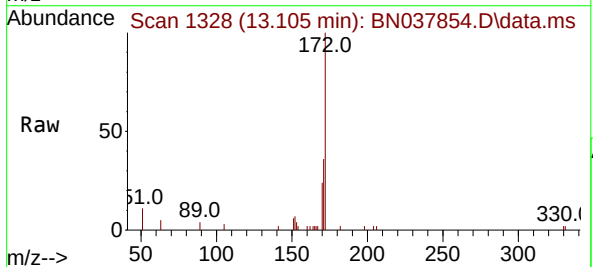
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250915DL



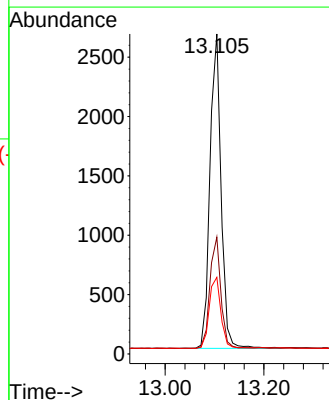
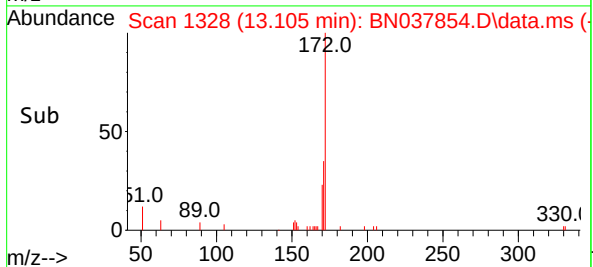
Tgt Ion:330 Resp: 309
Ion Ratio Lower Upper
330 100
332 97.4 75.3 112.9
141 51.1 35.0 52.4

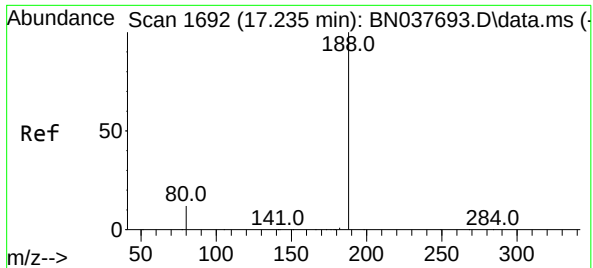


#15
2-Fluorobiphenyl
Concen: 0.169 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037854.D
Acq: 22 Sep 2025 13:20



Tgt Ion:172 Resp: 4134
Ion Ratio Lower Upper
172 100
171 36.5 28.6 43.0
170 23.9 19.8 29.8

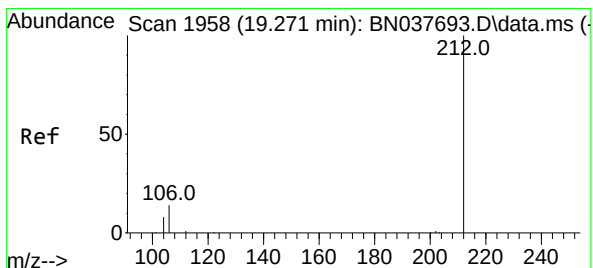
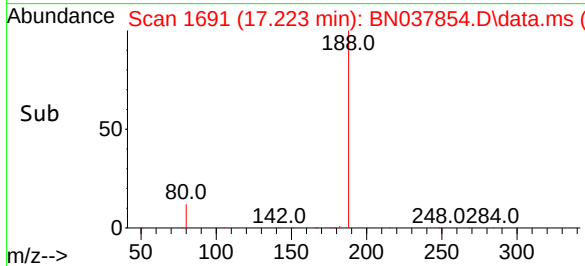
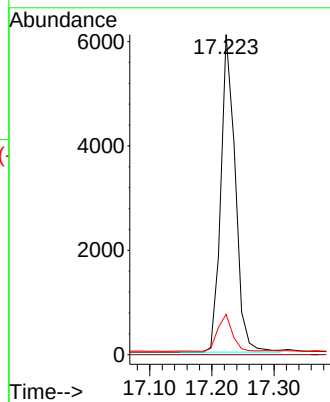
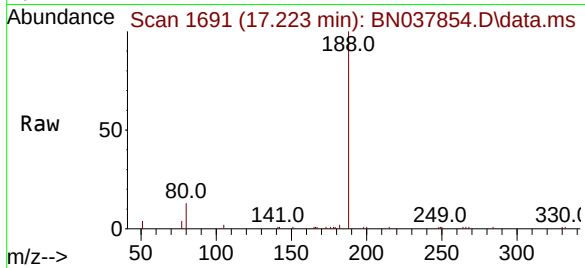




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.013 min
Lab File: BN037854.D
Acq: 22 Sep 2025 13:20

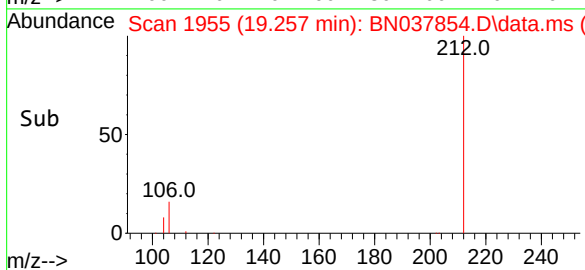
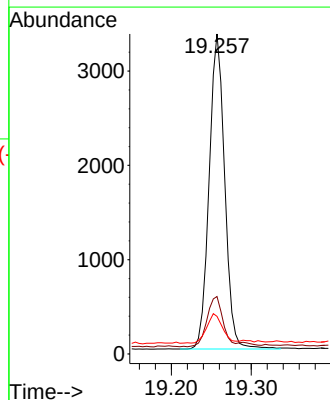
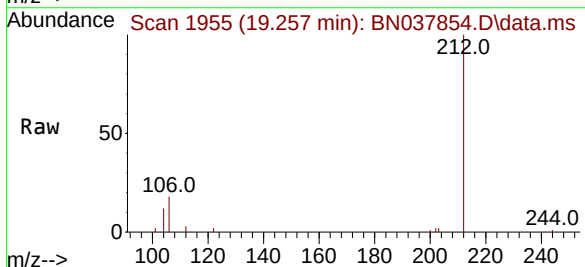
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250915DL

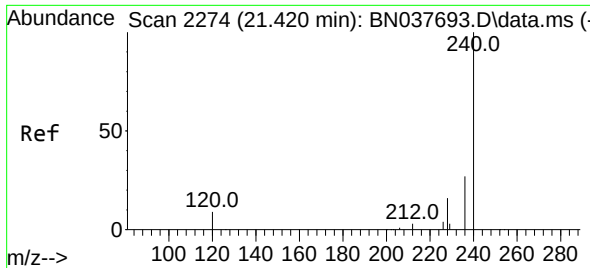
Tgt Ion:188 Resp: 9811
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.6 10.6 15.8



#27
Fluoranthene-d10
Concen: 0.184 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037854.D
Acq: 22 Sep 2025 13:20

Tgt Ion:212 Resp: 4520
Ion Ratio Lower Upper
212 100
106 16.2 12.2 18.2
104 9.4 6.9 10.3

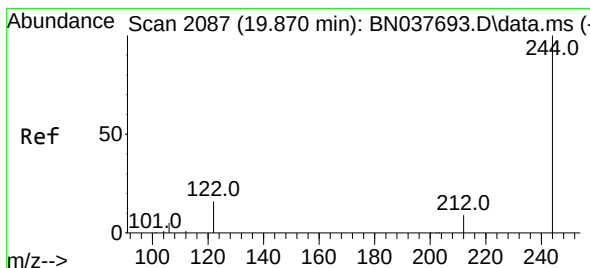
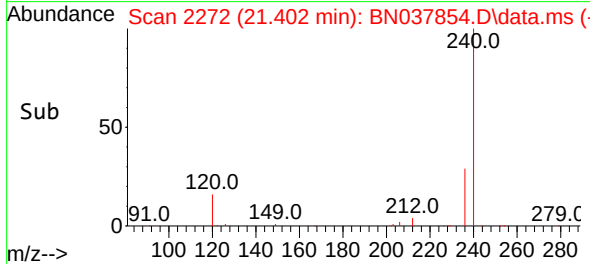
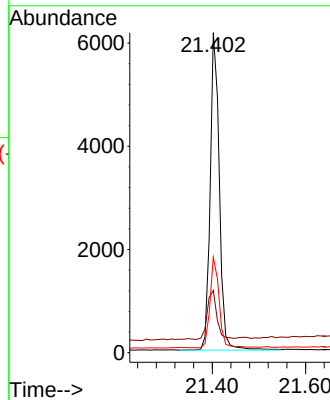
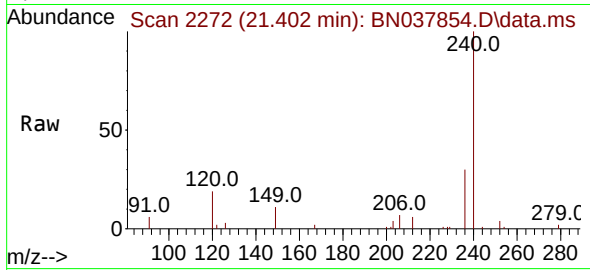




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037854.D
Acq: 22 Sep 2025 13:20

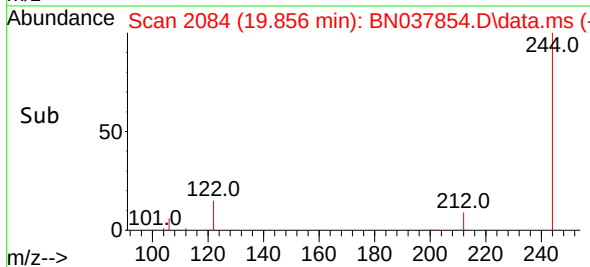
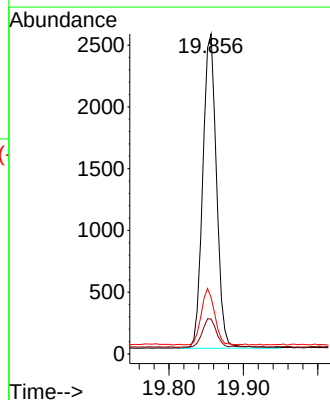
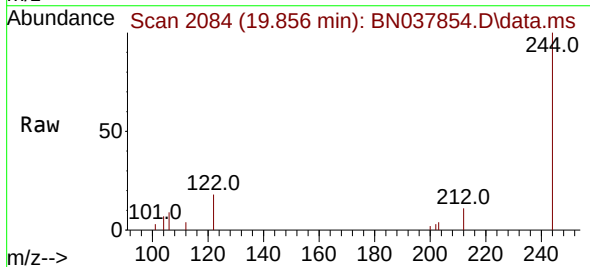
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250915DL

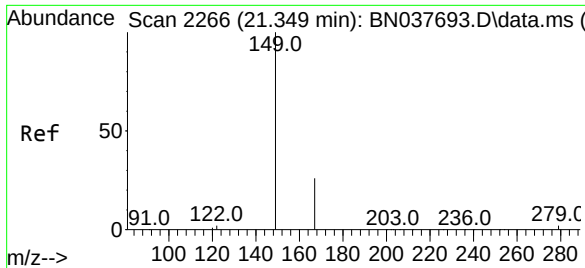
Tgt Ion:	240	Resp:	8402
Ion Ratio	Lower	Upper	
240	100		
120	19.4	9.2	13.8#
236	29.8	22.6	33.8



#31
Terphenyl-d14
Concen: 0.191 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037854.D
Acq: 22 Sep 2025 13:20

Tgt Ion:	244	Resp:	3261
Ion Ratio	Lower	Upper	
244	100		
212	10.9	7.5	11.3
122	17.6	13.2	19.8

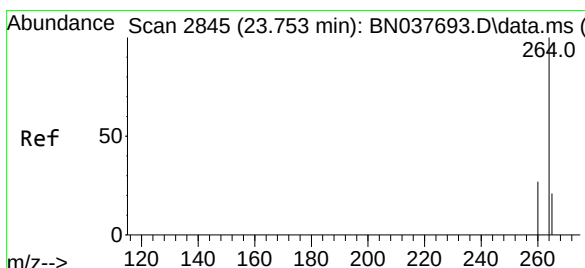
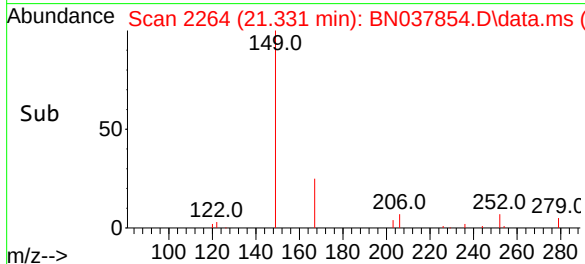
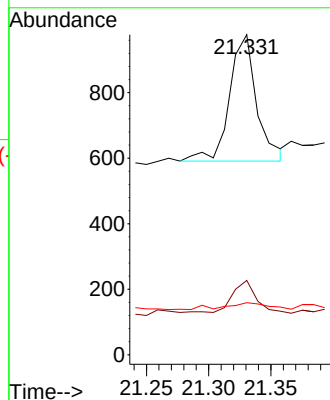
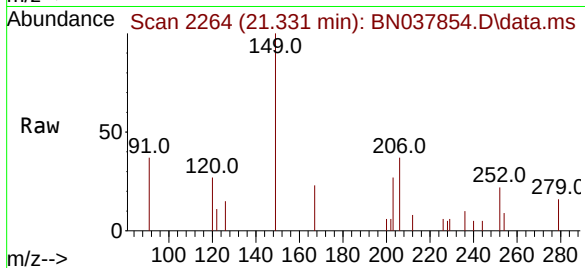




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.068 ng
RT: 21.331 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037854.D
Acq: 22 Sep 2025 13:20

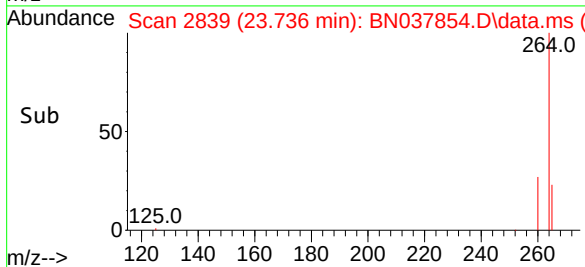
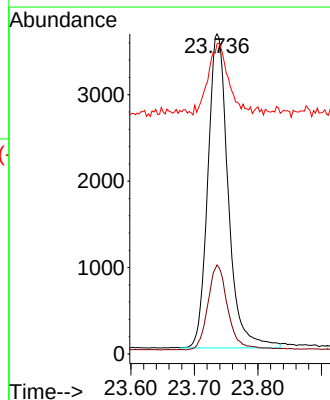
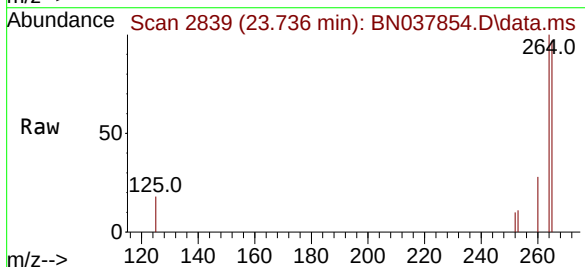
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250915DL

Tgt Ion:149 Resp: 587
Ion Ratio Lower Upper
149 100
167 22.5 20.8 31.2
279 6.6 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: BN037854.D
Acq: 22 Sep 2025 13:20

Tgt Ion:264 Resp: 8112
Ion Ratio Lower Upper
264 100
260 27.8 21.8 32.8
265 96.9 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/15/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/17/25
Client Sample ID:	DUP07-20250915	SDG No.:	Q3127
Lab Sample ID:	Q3127-04	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
BN037828.D	1	09/18/25 11:35	09/19/25 23:26	PB169743

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.30	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		71%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		85%	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		82%	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	5350	7.833				
1146-65-2	Naphthalene-d8	14200	10.637				
15067-26-2	Acenaphthene-d10	5940	14.484				
1517-22-2	Phenanthrene-d10	10100	17.223				
1719-03-5	Chrysene-d12	8210	21.402				
1520-96-3	Perylene-d12	7940	23.733				

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 : BN037828.D
Acq On : 19 Sep 2025 23:26
Operator : RC/JU
Sample : Q3127-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP07-20250915

Quant Time: Sep 20 00:06:54 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 14:20:01 2025
Response via : Initial Calibration

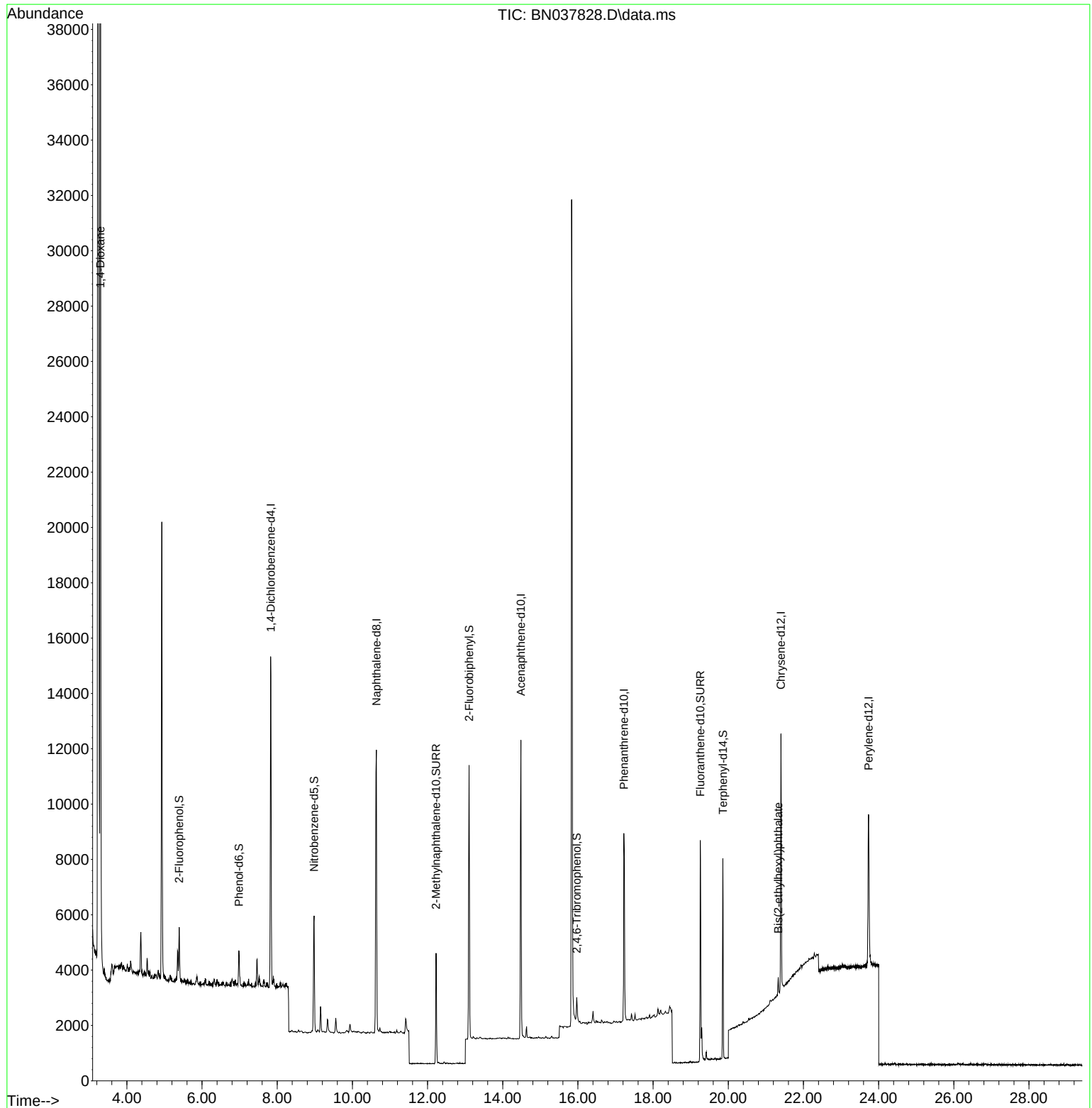
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	5353	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	14239	0.400	ng	#-0.01
13) Acenaphthene-d10	14.484	164	5937	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	10146	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	8206	0.400	ng	#-0.02
35) Perylene-d12	23.733	264	7941	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1512	0.123	ng	0.00
5) Phenol-d6	6.981	99	1103	0.069	ng	0.00
8) Nitrobenzene-d5	8.982	82	3470	0.333	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	5369	0.285	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	549	0.355	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	8181	0.329	ng	-0.01
27) Fluoranthene-d10	19.257	212	8661	0.340	ng	-0.01
31) Terphenyl-d14	19.857	244	6418	0.385	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	29411	5.275	ng	95
34) Bis(2-ethylhexyl)phtha...	21.331	149	753	0.089	ng	# 93

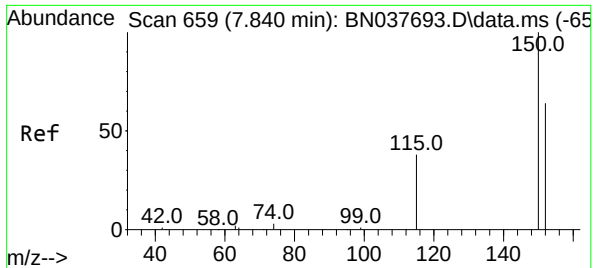
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037828.D
Acq On : 19 Sep 2025 23:26
Operator : RC/JU
Sample : Q3127-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP07-20250915

Quant Time: Sep 20 00:06:54 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 14:20:01 2025
Response via : Initial Calibration

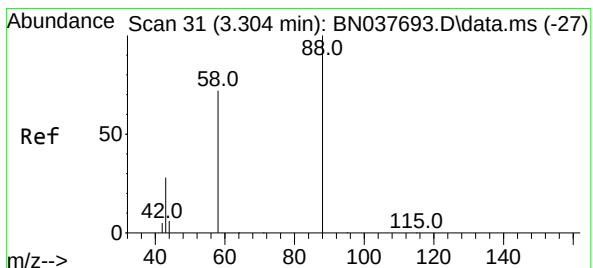
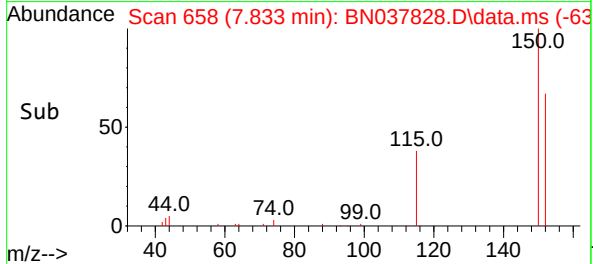
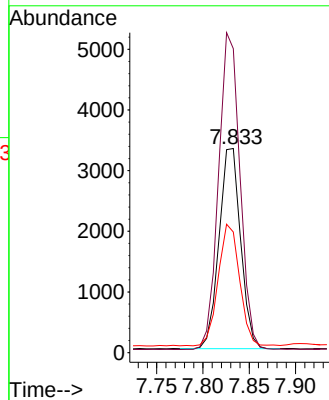
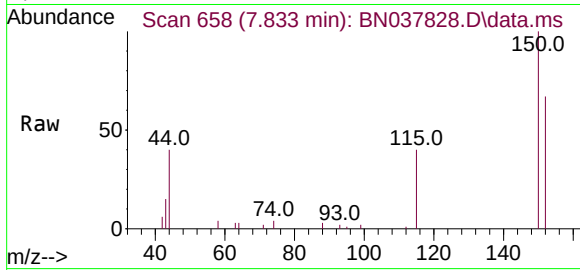




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037828.D
Acq: 19 Sep 2025 23:26

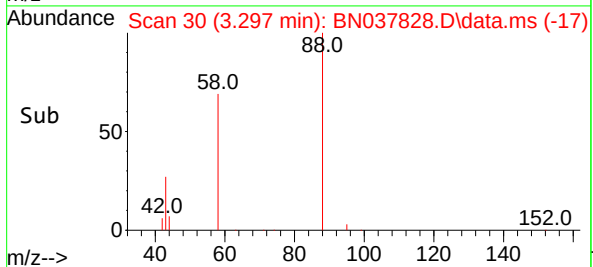
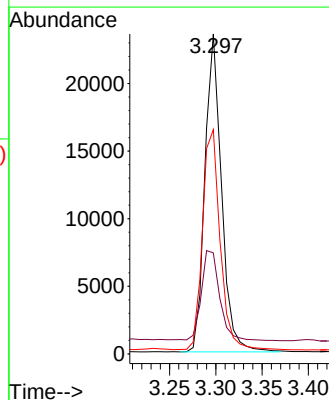
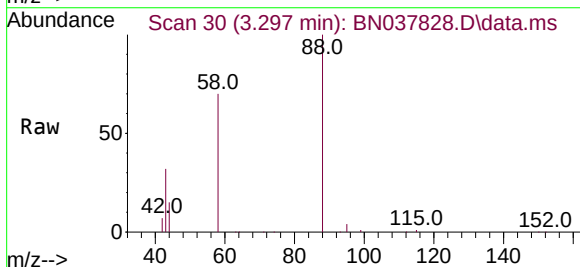
Instrument :
BNA_N
ClientSampleId :
DUP07-20250915

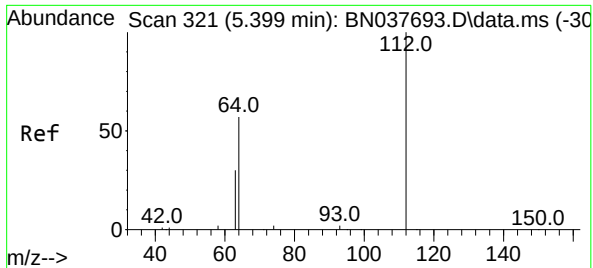
Tgt Ion:152 Resp: 5353
Ion Ratio Lower Upper
152 100
150 148.9 124.5 186.7
115 59.1 49.2 73.8



#2
1,4-Dioxane
Concen: 5.275 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037828.D
Acq: 19 Sep 2025 23:26

Tgt Ion: 88 Resp: 29411
Ion Ratio Lower Upper
88 100
43 31.3 26.8 40.2
58 73.2 61.9 92.9

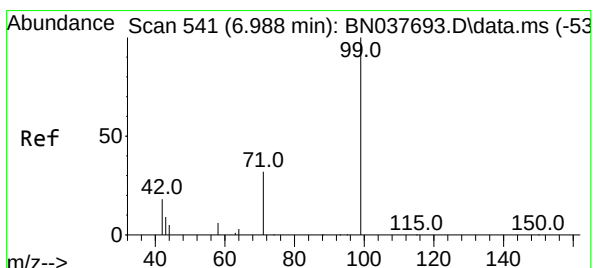
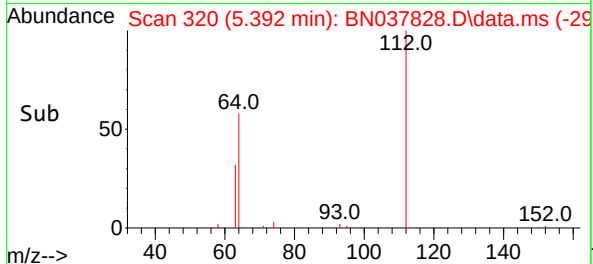
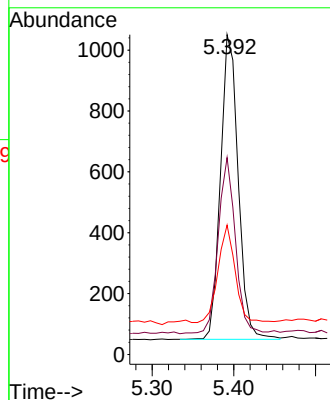
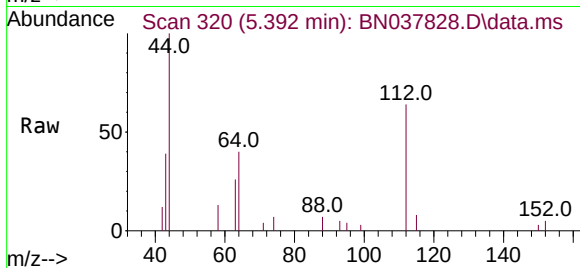




#4
2-Fluorophenol
Concen: 0.123 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037828.D
Acq: 19 Sep 2025 23:26

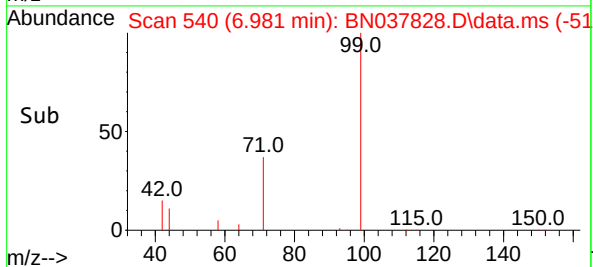
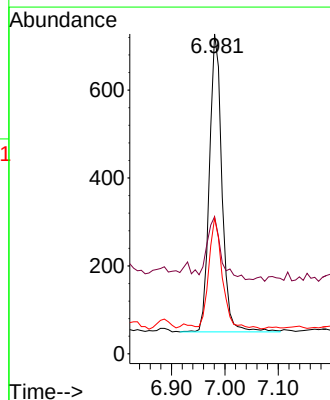
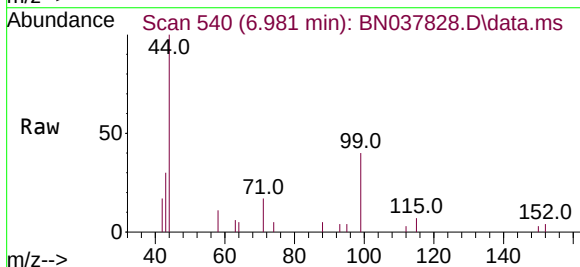
Instrument :
BNA_N
ClientSampleId :
DUP07-20250915

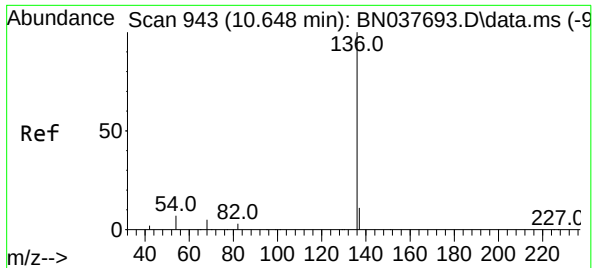
Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.7	44.9	67.3
63	32.5	24.7	37.1



#5
Phenol-d6
Concen: 0.069 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037828.D
Acq: 19 Sep 2025 23:26

Tgt Ion	Ratio	Lower	Upper
99	100		
42	22.9	16.6	24.8
71	40.2	26.7	40.1

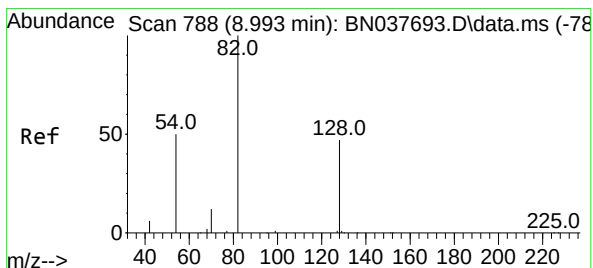
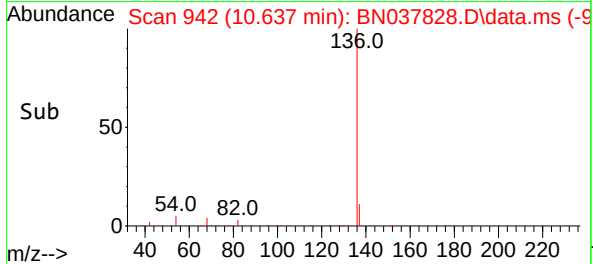
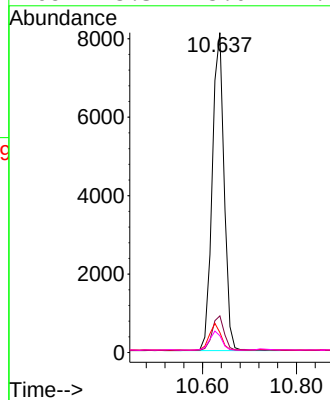
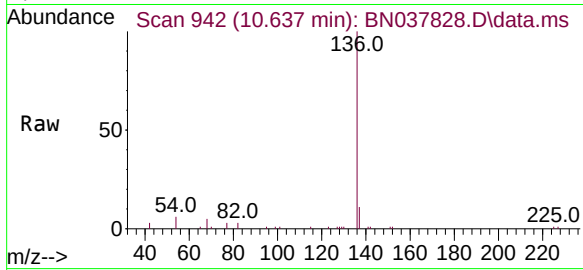




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037828.D
Acq: 19 Sep 2025 23:26

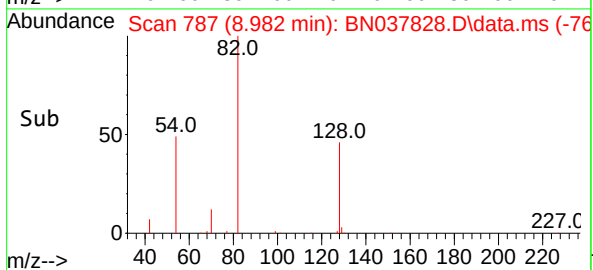
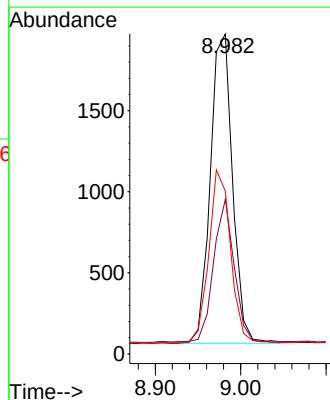
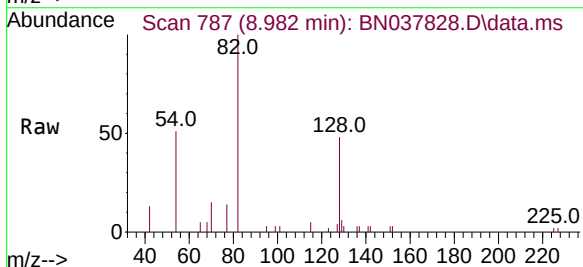
Instrument :
BNA_N
ClientSampleId :
DUP07-20250915

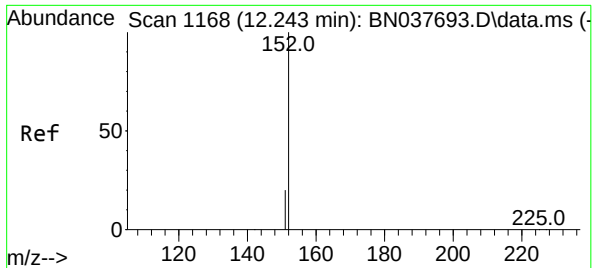
Tgt Ion:136	Resp:	14239
Ion	Ratio	Lower Upper
136	100	
137	11.5	9.1 13.7
54	6.3	6.3 9.5#
68	5.3	5.0 7.4



#8
Nitrobenzene-d5
Concen: 0.333 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037828.D
Acq: 19 Sep 2025 23:26

Tgt Ion: 82	Resp:	3470
Ion	Ratio	Lower Upper
82	100	
128	48.3	38.3 57.5
54	50.8	41.4 62.2

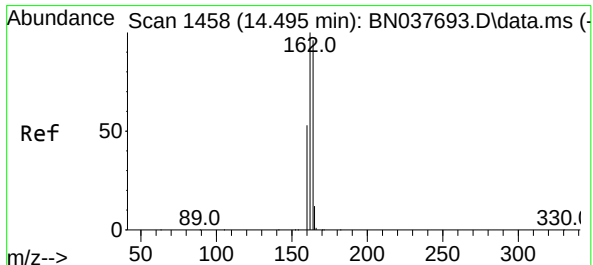
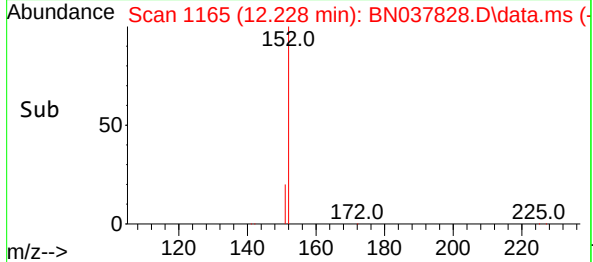
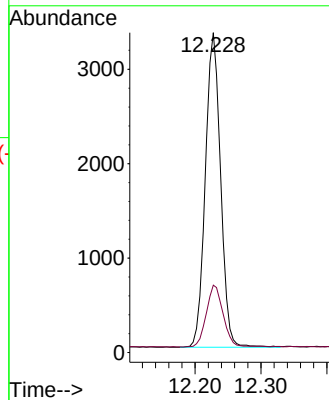
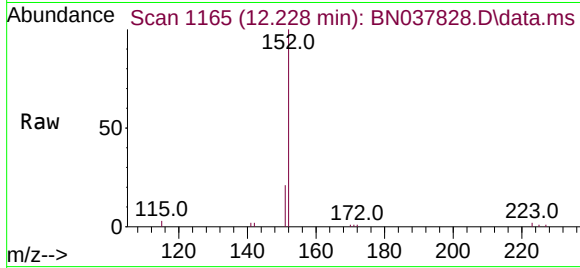




#11
2-Methylnaphthalene-d10
Concen: 0.285 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037828.D
Acq: 19 Sep 2025 23:26

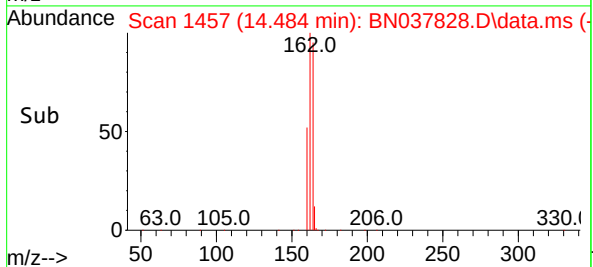
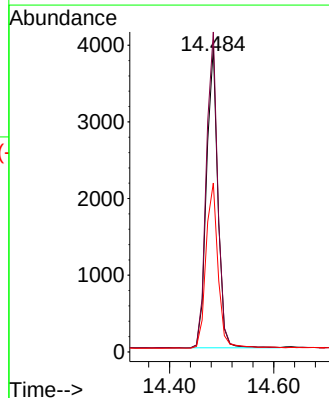
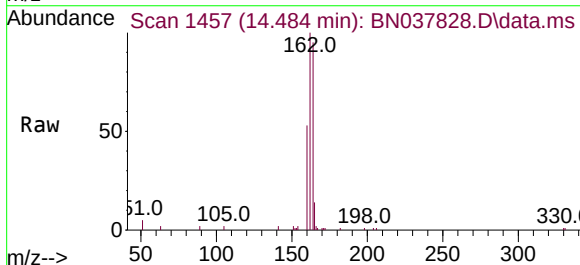
Instrument :
BNA_N
ClientSampleId :
DUP07-20250915

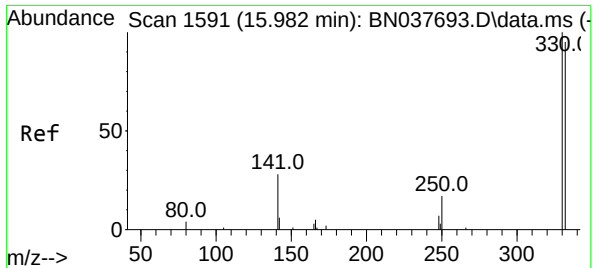
Tgt Ion:152 Resp: 5369
Ion Ratio Lower Upper
152 100
151 21.6 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037828.D
Acq: 19 Sep 2025 23:26

Tgt Ion:164 Resp: 5937
Ion Ratio Lower Upper
164 100
162 105.1 83.1 124.7
160 55.5 44.3 66.5

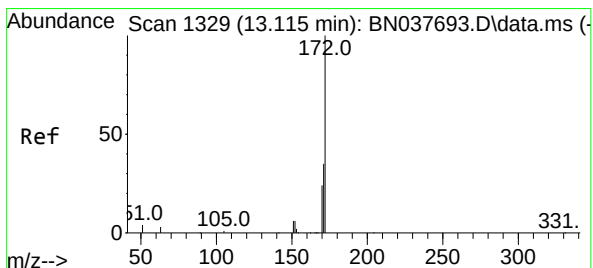
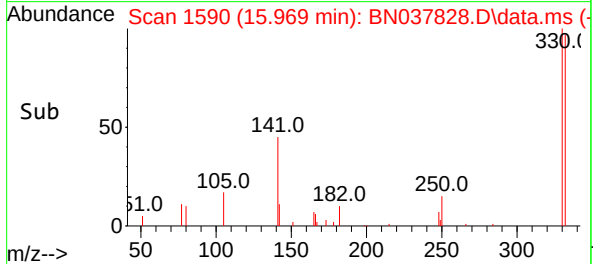
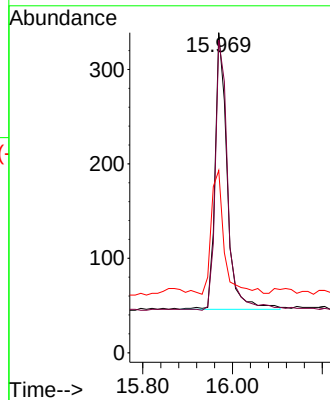
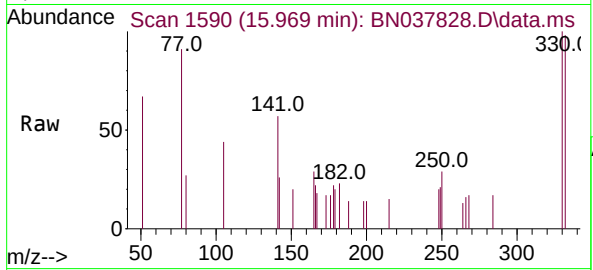




#14
2,4,6-Tribromophenol
Concen: 0.355 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037828.D
Acq: 19 Sep 2025 23:26

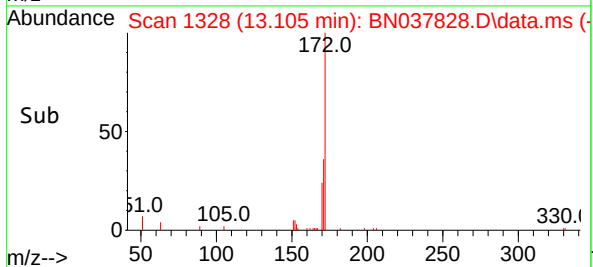
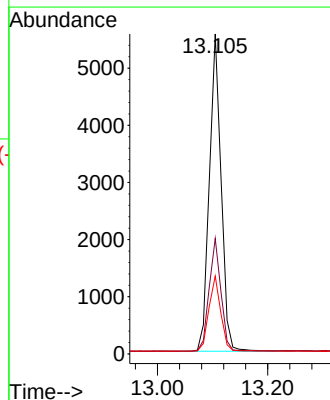
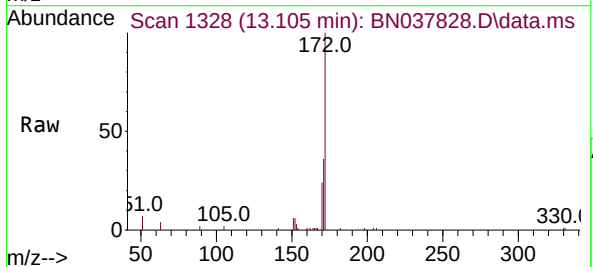
Instrument :
BNA_N
ClientSampleId :
DUP07-20250915

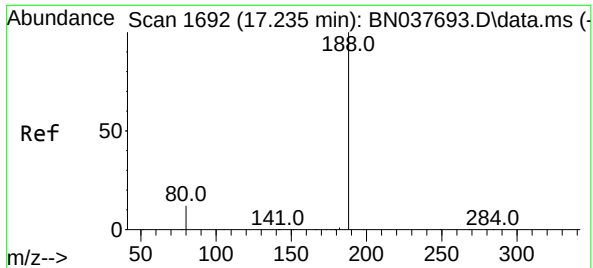
Tgt Ion	330	Ratio	100	Lower	75.3	Upper	112.9
332	99.3						
141	46.4						



#15
2-Fluorobiphenyl
Concen: 0.329 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037828.D
Acq: 19 Sep 2025 23:26

Tgt Ion	172	Ratio	100	Lower	28.6	Upper	43.0
171	36.1						
170	24.3						

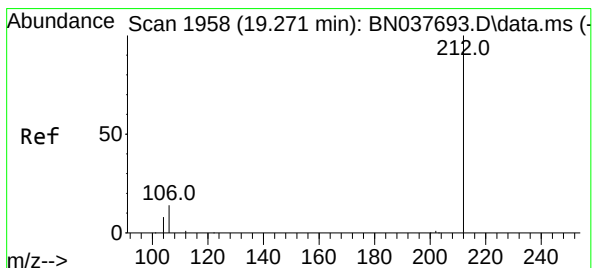
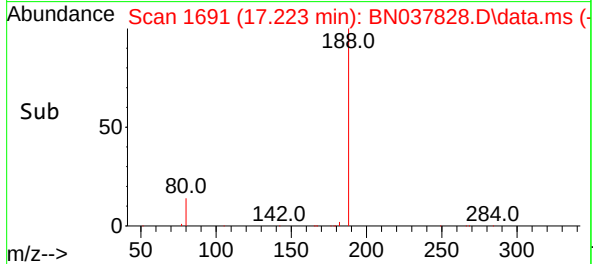
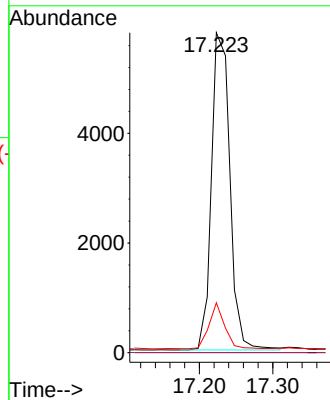
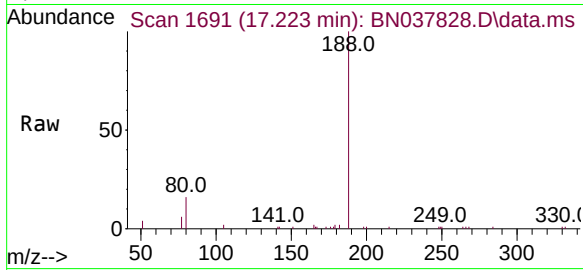




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.012 min
Lab File: BN037828.D
Acq: 19 Sep 2025 23:26

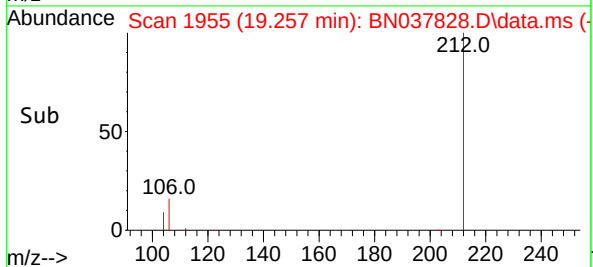
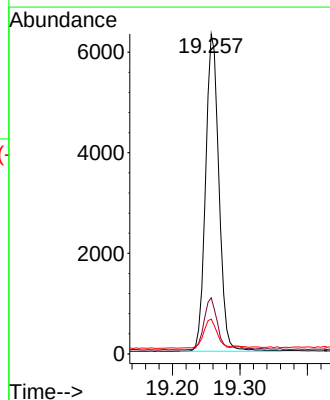
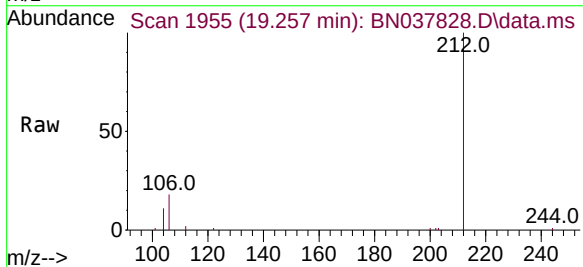
Instrument :
BNA_N
ClientSampleId :
DUP07-20250915

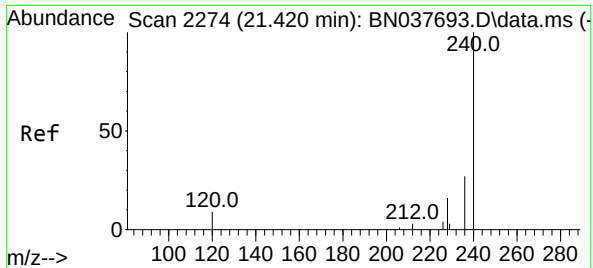
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.6	10.6	15.8



#27
Fluoranthene-d10
Concen: 0.340 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037828.D
Acq: 19 Sep 2025 23:26

Tgt Ion	Ratio	Lower	Upper
212	100		
106	16.0	12.2	18.2
104	9.3	6.9	10.3

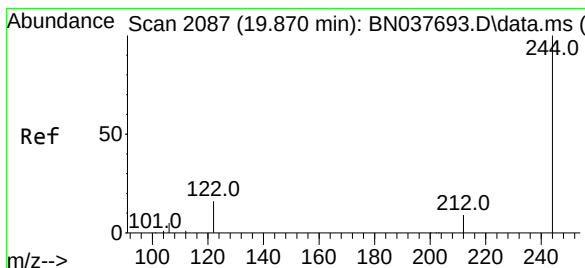
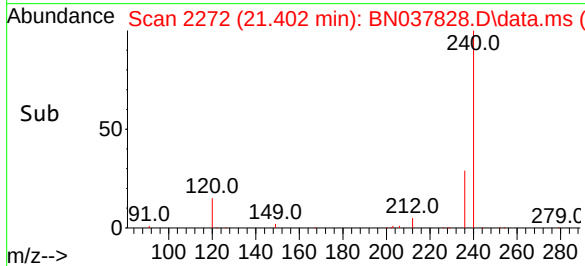
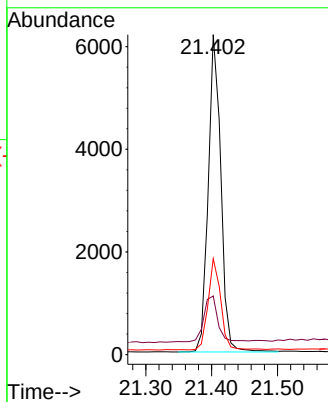
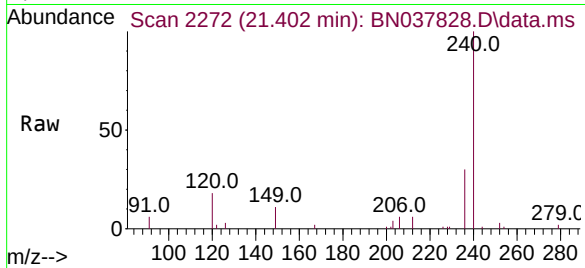




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037828.D
Acq: 19 Sep 2025 23:26

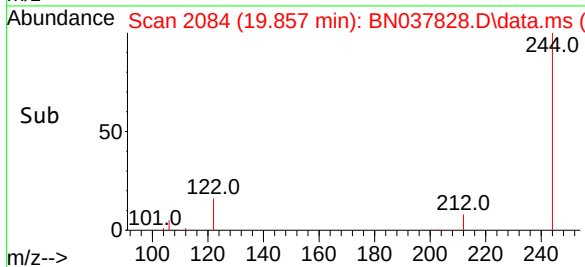
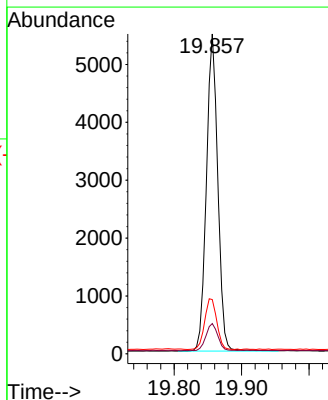
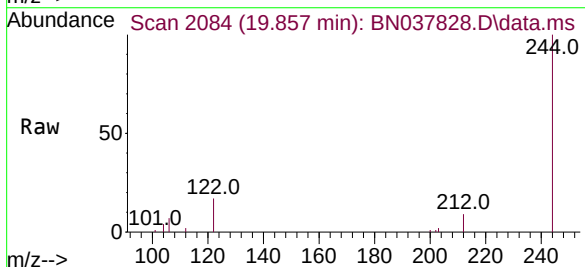
Instrument :
BNA_N
ClientSampleId :
DUP07-20250915

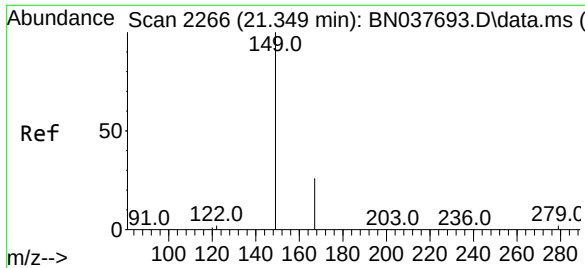
Tgt Ion	Ratio	Lower	Upper
240	100		
120	18.3	9.2	13.8#
236	30.0	22.6	33.8



#31
Terphenyl-d14
Concen: 0.385 ng
RT: 19.857 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037828.D
Acq: 19 Sep 2025 23:26

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.5	11.3
122	17.0	13.2	19.8

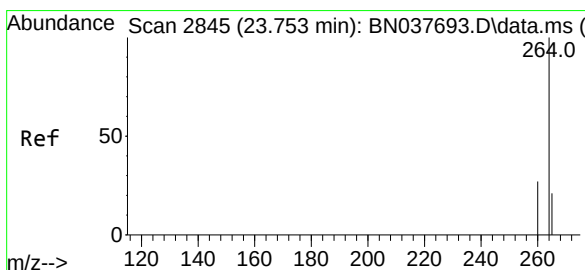
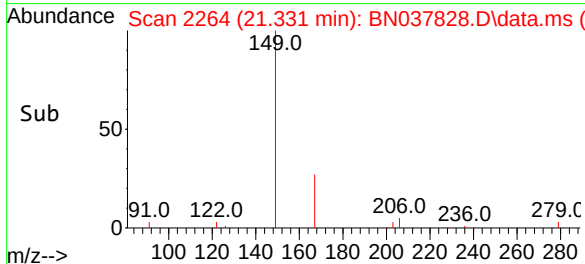
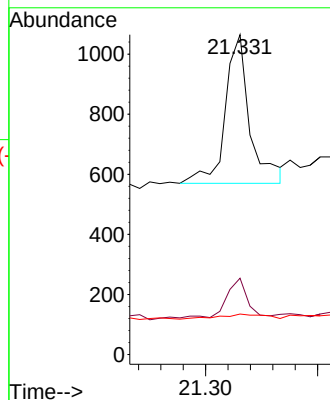
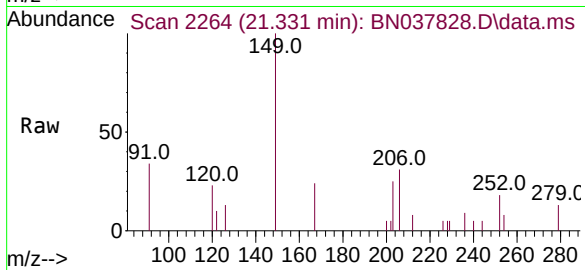




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.089 ng
RT: 21.331 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037828.D
Acq: 19 Sep 2025 23:26

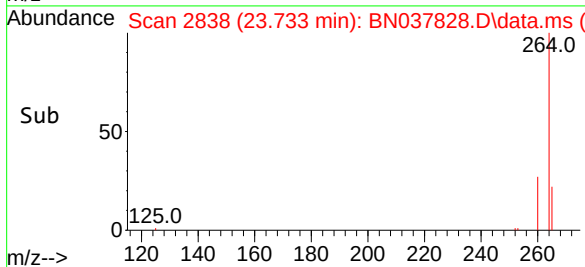
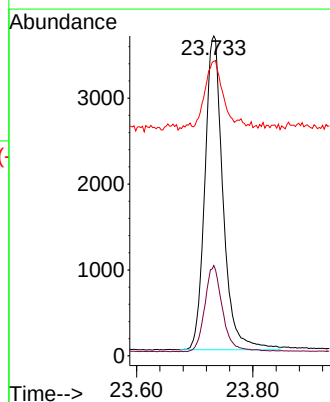
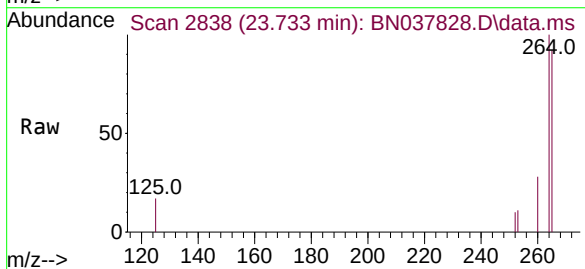
Instrument :
BNA_N
ClientSampleId :
DUP07-20250915

Tgt Ion:149 Resp: 753
Ion Ratio Lower Upper
149 100
167 22.6 20.8 31.2
279 6.2 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: BN037828.D
Acq: 19 Sep 2025 23:26

Tgt Ion:264 Resp: 7941
Ion Ratio Lower Upper
264 100
260 28.2 21.8 32.8
265 92.1 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/15/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/17/25
Client Sample ID:	DUP07-20250915DL	SDG No.:	Q3127
Lab Sample ID:	Q3127-04DL	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
BN037855.D	2	09/18/25 11:35	09/22/25 13:56	PB169743

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.70	D	0.13	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		94%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		101%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5380		7.825			
1146-65-2	Naphthalene-d8	14100		10.626			
15067-26-2	Acenaphthene-d10	5770		14.484			
1517-22-2	Phenanthrene-d10	9840		17.223			
1719-03-5	Chrysene-d12	7850		21.402			
1520-96-3	Perylene-d12	7550		23.735			

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\BN092225\
Data File : BN037855.D
Acq On : 22 Sep 2025 13:56
Operator : RC/JU
Sample : Q3127-04DL 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP07-20250915DL

Quant Time: Sep 22 14:32:46 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

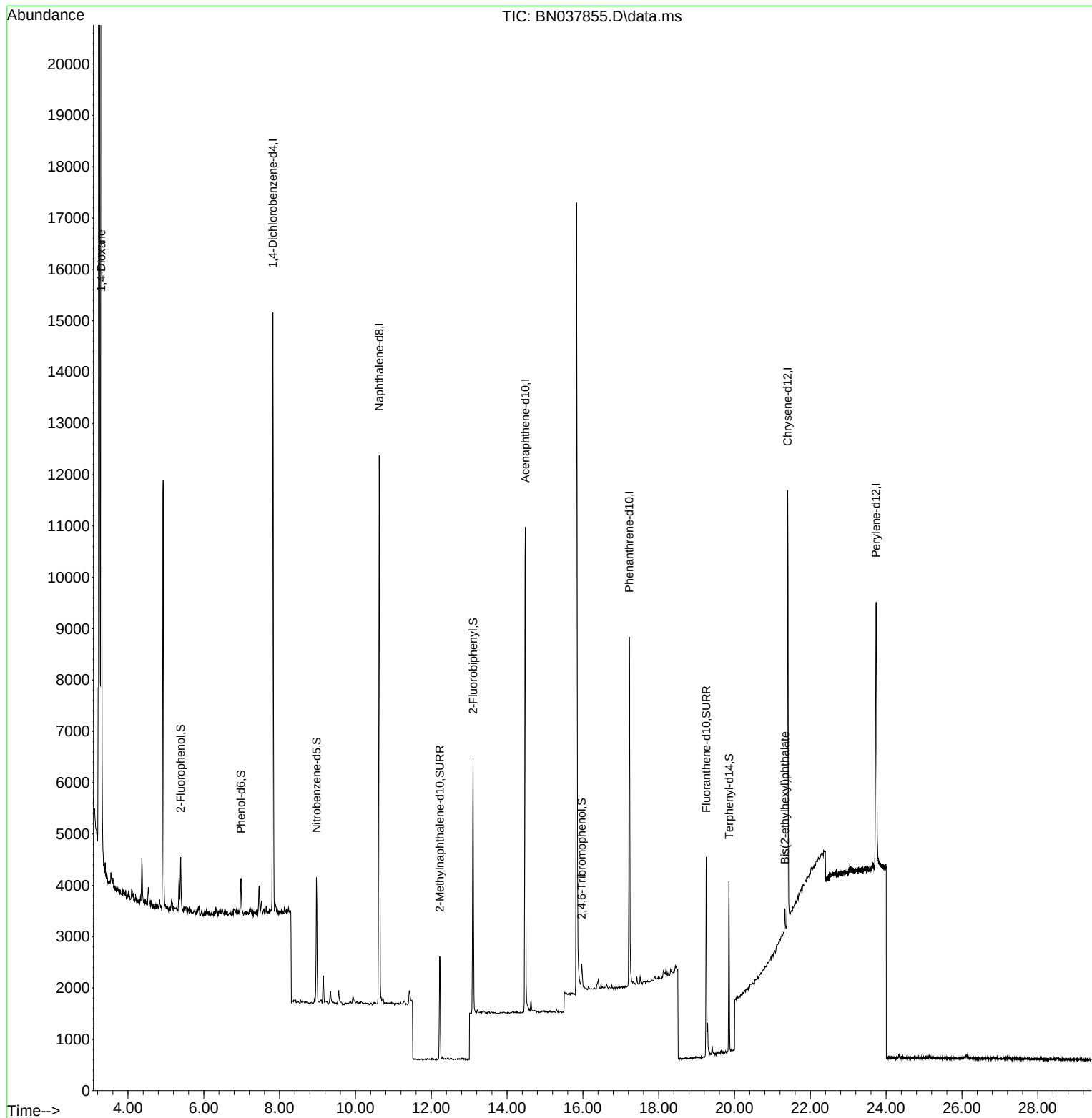
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5382	0.400	ng	-0.01
7) Naphthalene-d8	10.626	136	14120	0.400	ng	-0.02
13) Acenaphthene-d10	14.484	164	5769	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	9844	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	7847	0.400	ng	#-0.02
35) Perylene-d12	23.735	264	7550	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.391	112	795	0.064	ng	0.00
5) Phenol-d6	6.980	99	593	0.037	ng	0.00
8) Nitrobenzene-d5	8.971	82	1937	0.188	ng	-0.02
11) 2-Methylnaphthalene-d10	12.222	152	2798	0.150	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	301	0.200	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	4347	0.180	ng	-0.01
27) Fluoranthene-d10	19.257	212	4380	0.177	ng	-0.01
31) Terphenyl-d14	19.856	244	3215	0.202	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	18781	3.350	ng	96
34) Bis(2-ethylhexyl)phtha...	21.330	149	511	0.063	ng	# 95

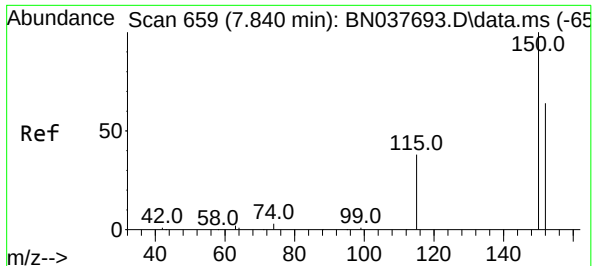
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037855.D
Acq On : 22 Sep 2025 13:56
Operator : RC/JU
Sample : Q3127-04DL 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP07-20250915DL

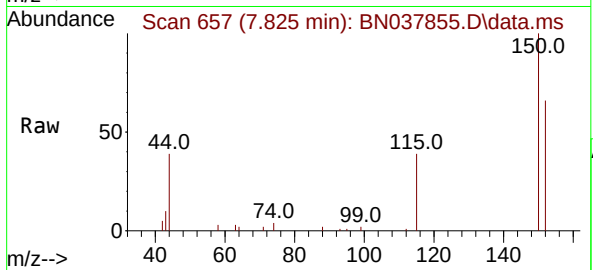
Quant Time: Sep 22 14:32:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



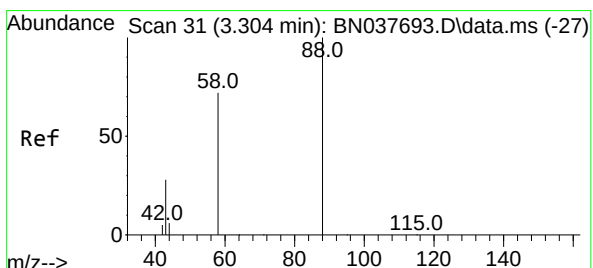
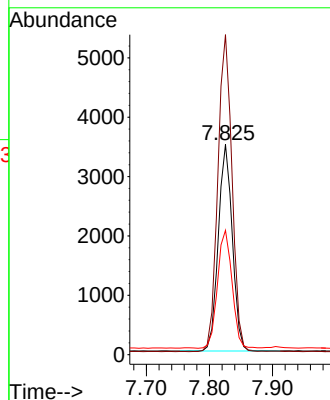
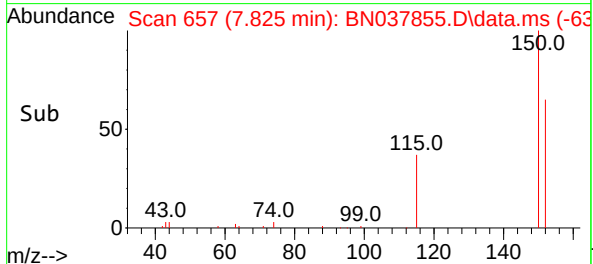


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN037855.D
Acq: 22 Sep 2025 13:56

Instrument :
BNA_N
ClientSampleId :
DUP07-20250915DL

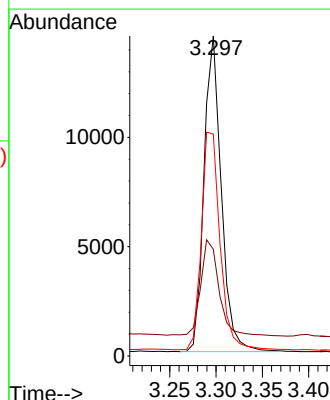
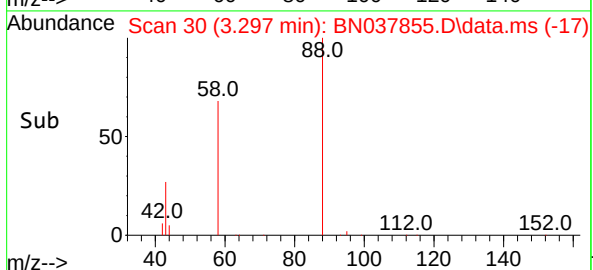
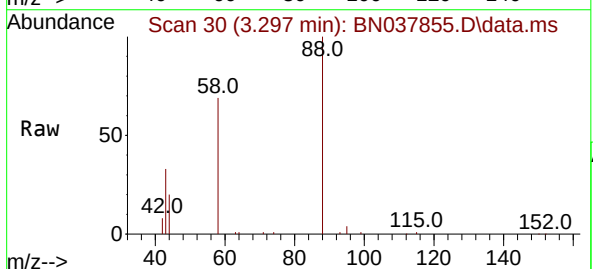


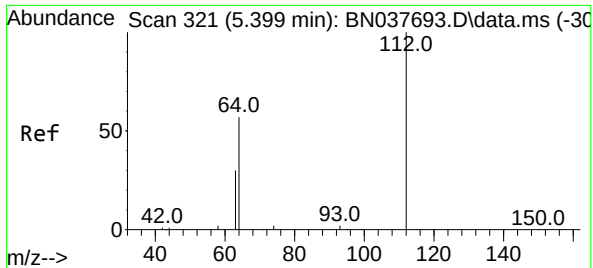
Tgt Ion:152 Resp: 5382
Ion Ratio Lower Upper
152 100
150 152.2 124.5 186.7
115 59.1 49.2 73.8



#2
1,4-Dioxane
Concen: 3.350 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037855.D
Acq: 22 Sep 2025 13:56

Tgt Ion: 88 Resp: 18781
Ion Ratio Lower Upper
88 100
43 32.1 26.8 40.2
58 74.0 61.9 92.9

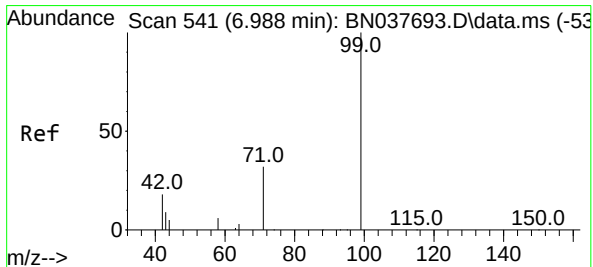
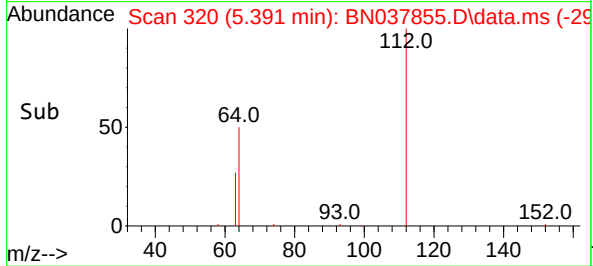
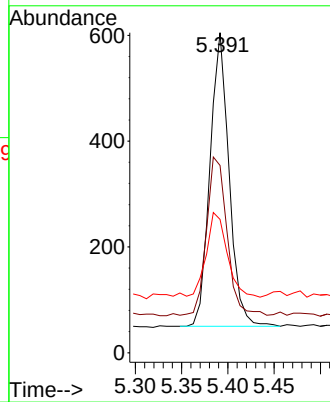
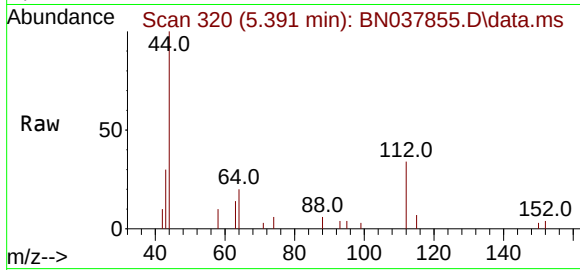




#4
2-Fluorophenol
Concen: 0.064 ng
RT: 5.391 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037855.D
Acq: 22 Sep 2025 13:56

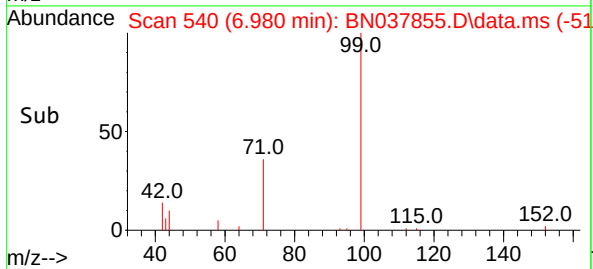
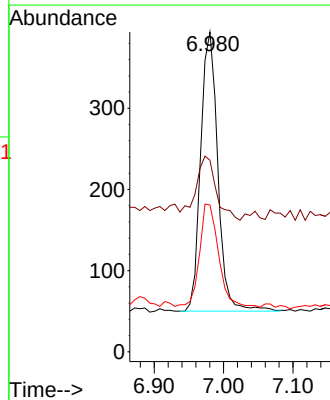
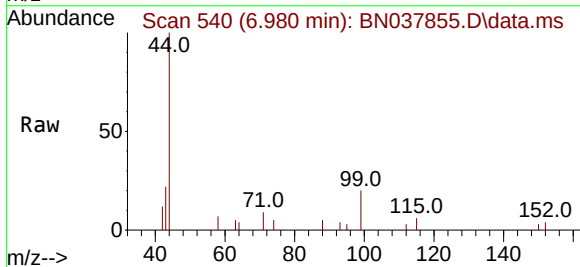
Instrument :
BNA_N
ClientSampleId :
DUP07-20250915DL

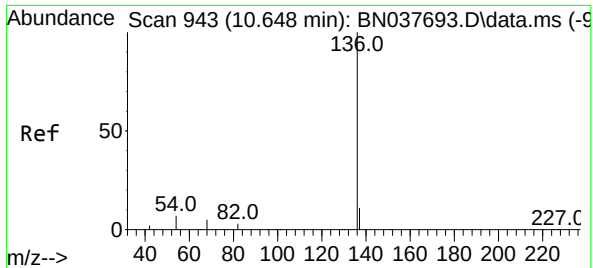
Tgt Ion:	112	Resp:	795
Ion	Ratio	Lower	Upper
112	100		
64	58.5	44.9	67.3
63	32.1	24.7	37.1



#5
Phenol-d6
Concen: 0.037 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037855.D
Acq: 22 Sep 2025 13:56

Tgt Ion:	99	Resp:	593
Ion	Ratio	Lower	Upper
99	100		
42	27.2	16.6	24.8#
71	41.0	26.7	40.1#

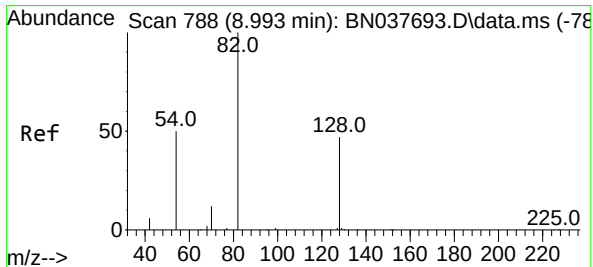
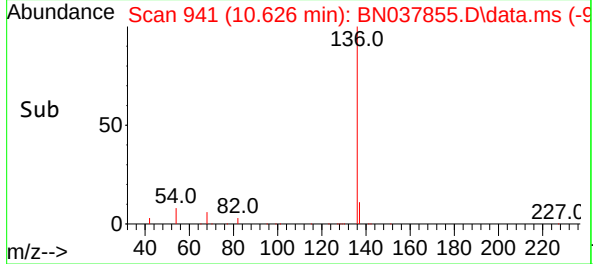
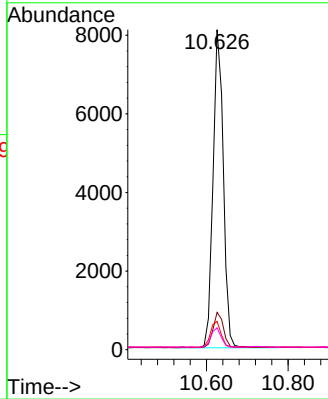
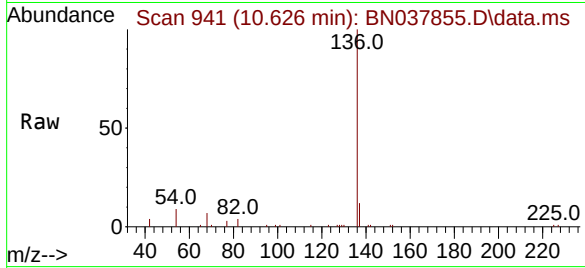




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.022 min
Lab File: BN037855.D
Acq: 22 Sep 2025 13:56

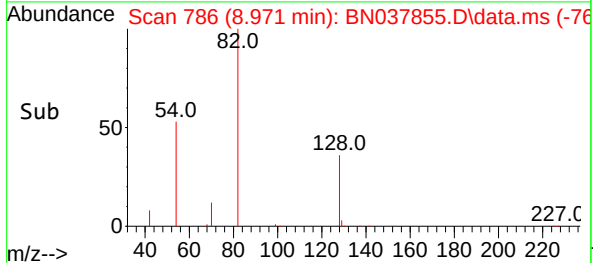
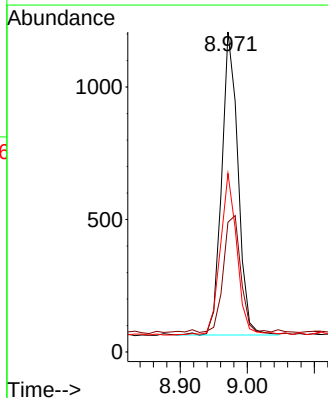
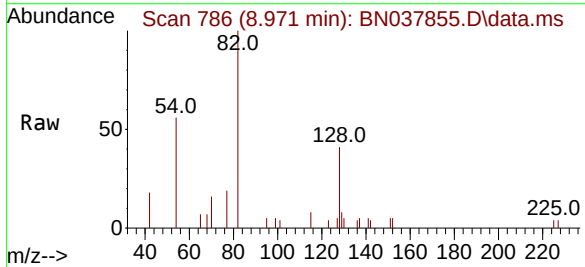
Instrument :
BNA_N
ClientSampleId :
DUP07-20250915DL

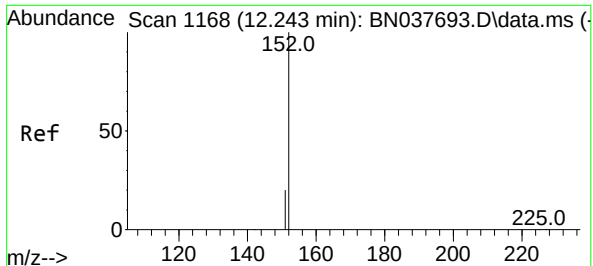
Tgt Ion:136	Resp:	14120
Ion	Ratio	Lower Upper
136	100	
137	11.6	9.1 13.7
54	8.9	6.3 9.5
68	6.8	5.0 7.4



#8
Nitrobenzene-d5
Concen: 0.188 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.022 min
Lab File: BN037855.D
Acq: 22 Sep 2025 13:56

Tgt Ion: 82	Resp:	1937
Ion	Ratio	Lower Upper
82	100	
128	40.6	38.3 57.5
54	55.8	41.4 62.2

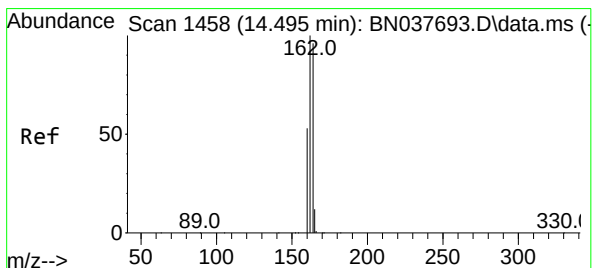
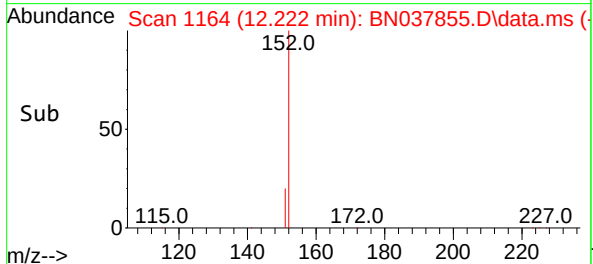
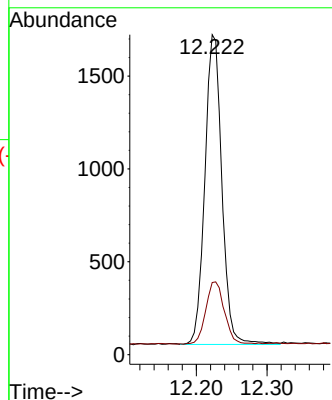
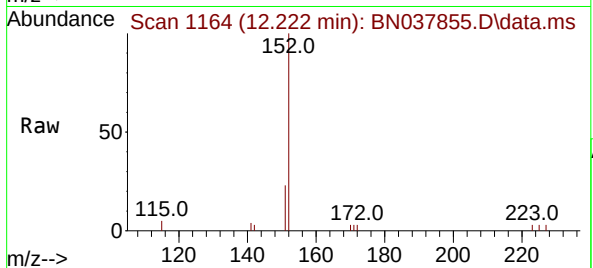




#11
2-Methylnaphthalene-d10
Concen: 0.150 ng
RT: 12.222 min Scan# 1164
Delta R.T. -0.021 min
Lab File: BN037855.D
Acq: 22 Sep 2025 13:56

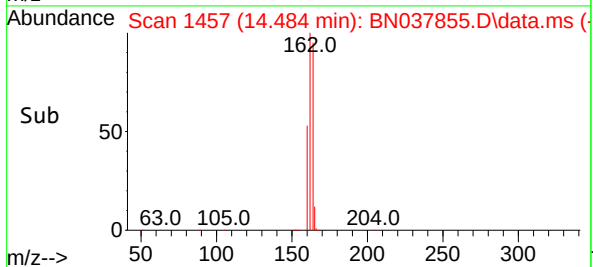
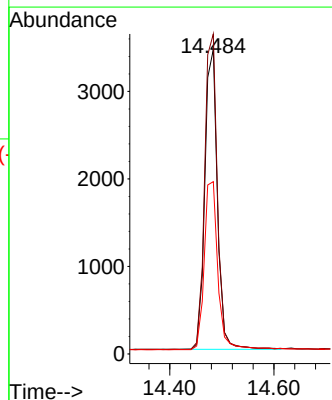
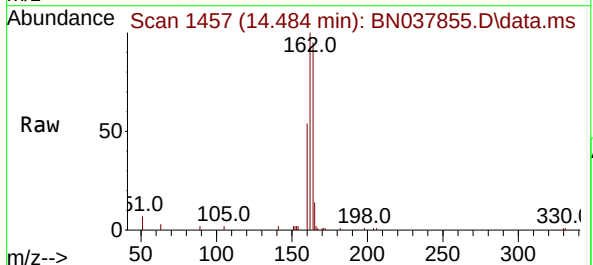
Instrument :
BNA_N
ClientSampleId :
DUP07-20250915DL

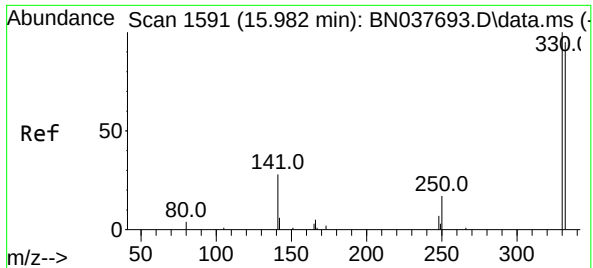
Tgt Ion:152 Resp: 2798
Ion Ratio Lower Upper
152 100
151 22.0 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037855.D
Acq: 22 Sep 2025 13:56

Tgt Ion:164 Resp: 5769
Ion Ratio Lower Upper
164 100
162 105.1 83.1 124.7
160 56.6 44.3 66.5



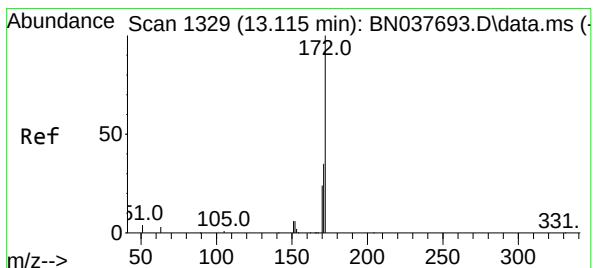
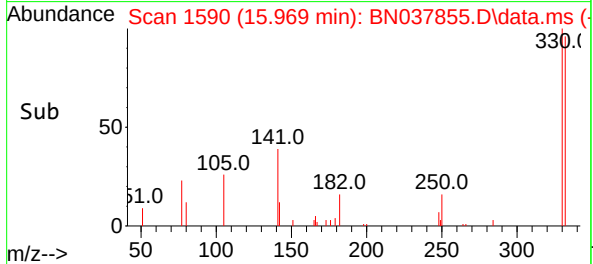
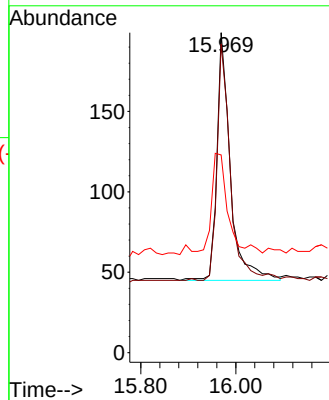
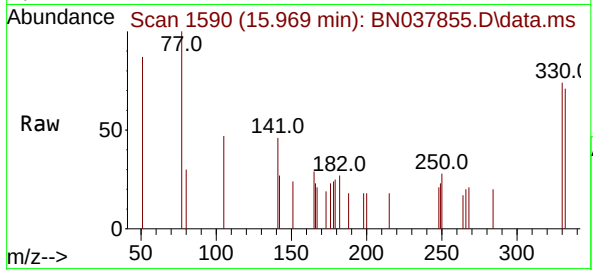


#14
2,4,6-Tribromophenol
Concen: 0.200 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037855.D
Acq: 22 Sep 2025 13:56

Instrument :
BNA_N
ClientSampleId :
DUP07-20250915DL

Tgt Ion	330	Resp	301
Ion Ratio	100		
Lower	75.3		
Upper	112.9		

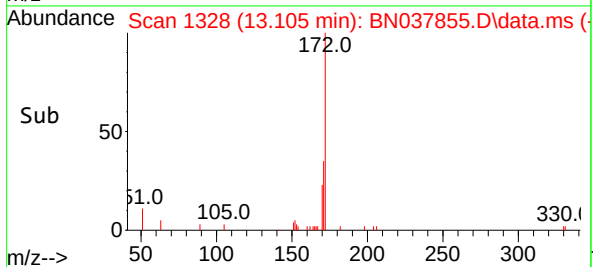
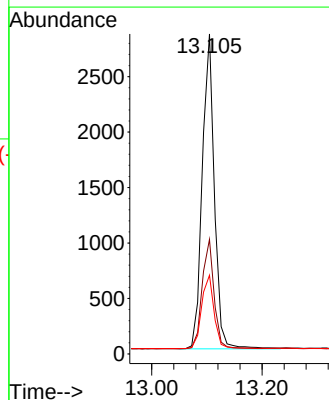
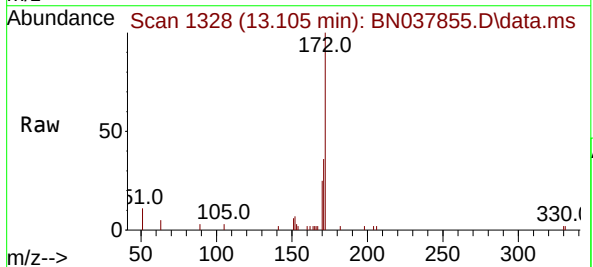
Ion	332	141
Ratio	95.0	49.2
Lower	75.3	35.0
Upper	112.9	52.4

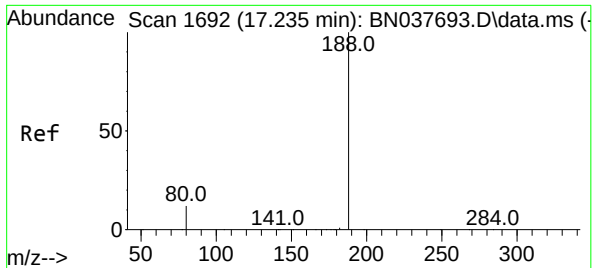


#15
2-Fluorobiphenyl
Concen: 0.180 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037855.D
Acq: 22 Sep 2025 13:56

Tgt Ion	172	Resp	4347
Ion Ratio	100		
Lower	28.6		
Upper	43.0		

Ion	171	170
Ratio	35.8	24.6
Lower	28.6	19.8
Upper	43.0	29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1

Delta R.T. -0.013 min

Lab File: BN037855.D

Acq: 22 Sep 2025 13:56

Instrument :

BNA_N

ClientSampleId :

DUP07-20250915DL

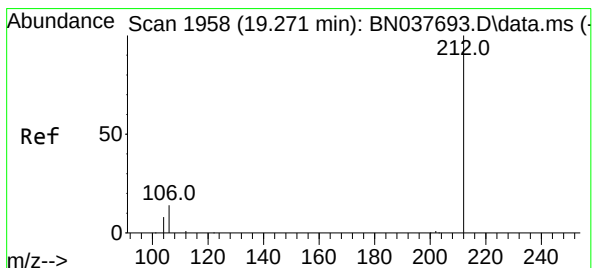
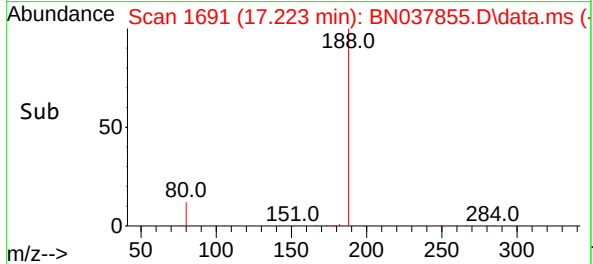
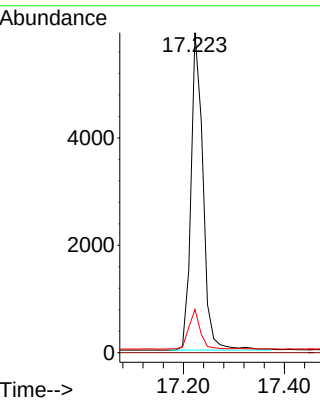
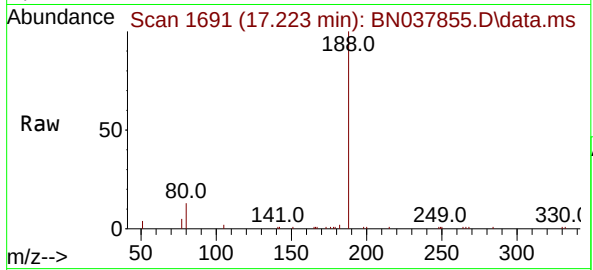
Tgt Ion:188 Resp: 9844

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.5 10.6 15.8



#27

Fluoranthene-d10

Concen: 0.177 ng

RT: 19.257 min Scan# 1955

Delta R.T. -0.014 min

Lab File: BN037855.D

Acq: 22 Sep 2025 13:56

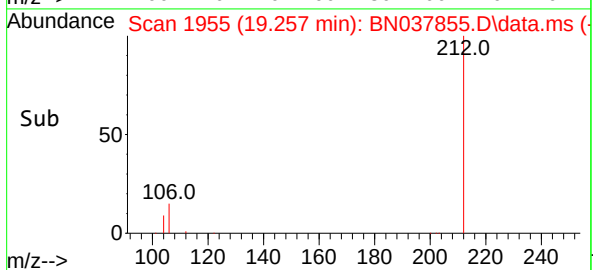
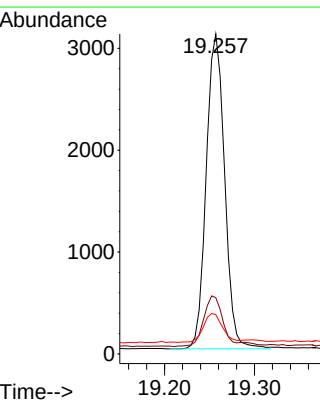
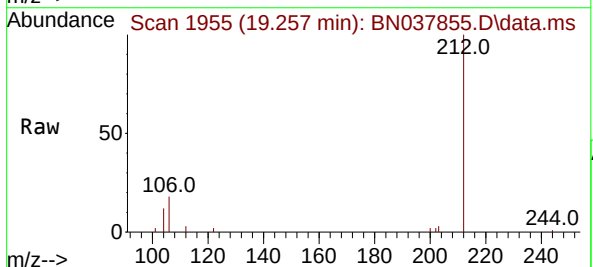
Tgt Ion:212 Resp: 4380

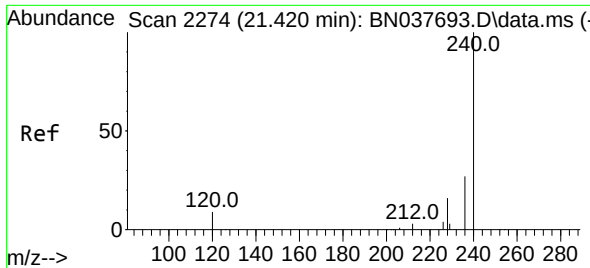
Ion Ratio Lower Upper

212 100

106 16.6 12.2 18.2

104 9.7 6.9 10.3

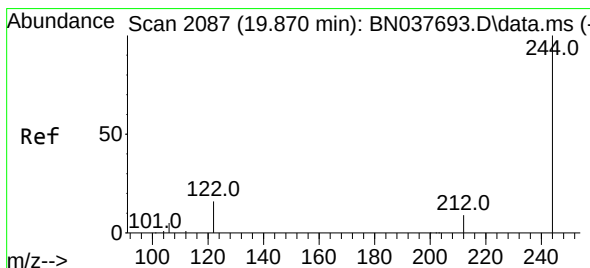
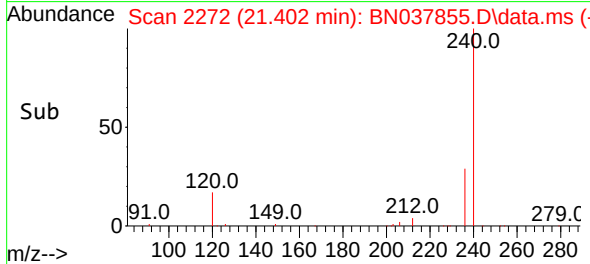
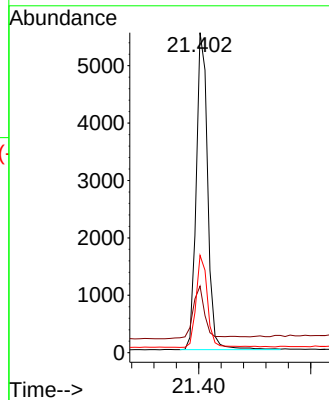
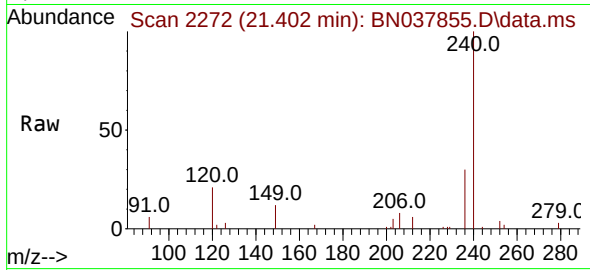




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037855.D
Acq: 22 Sep 2025 13:56

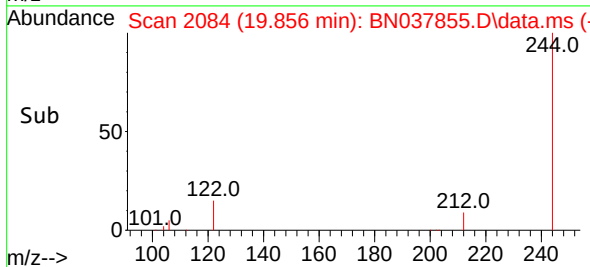
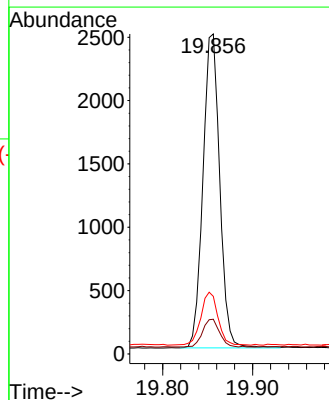
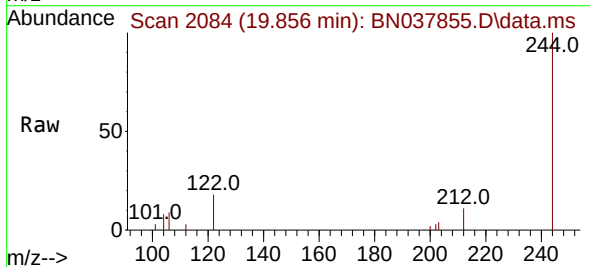
Instrument :
BNA_N
ClientSampleId :
DUP07-20250915DL

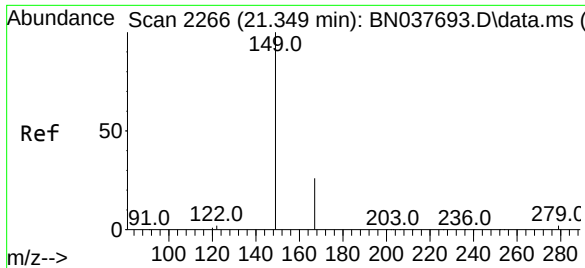
Tgt Ion	Ratio	Lower	Upper
240	100		
120	20.8	9.2	13.8#
236	30.4	22.6	33.8



#31
Terphenyl-d14
Concen: 0.202 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037855.D
Acq: 22 Sep 2025 13:56

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.8	7.5	11.3
122	18.0	13.2	19.8

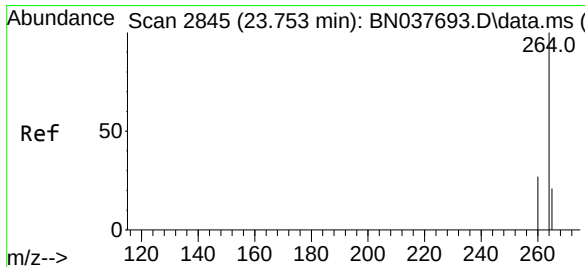
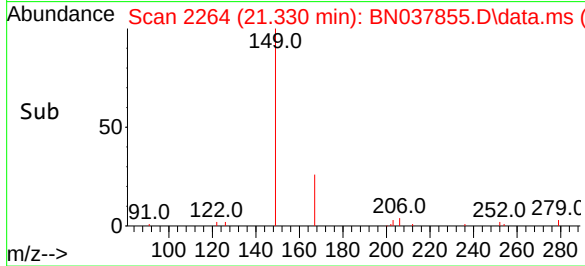
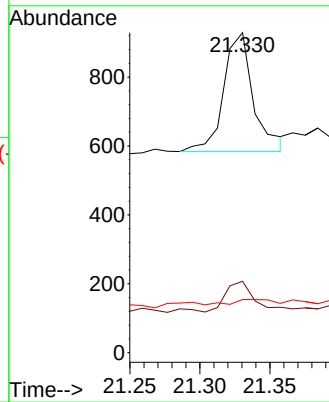
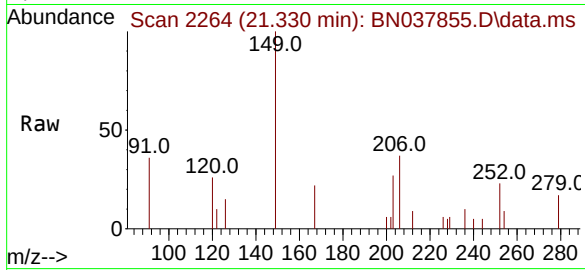




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.063 ng
RT: 21.330 min Scan# 21330
Delta R.T. -0.018 min
Lab File: BN037855.D
Acq: 22 Sep 2025 13:56

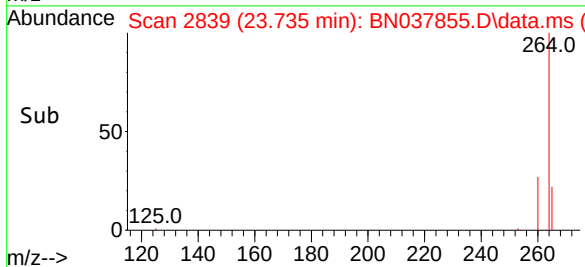
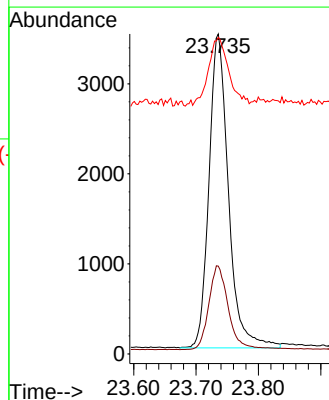
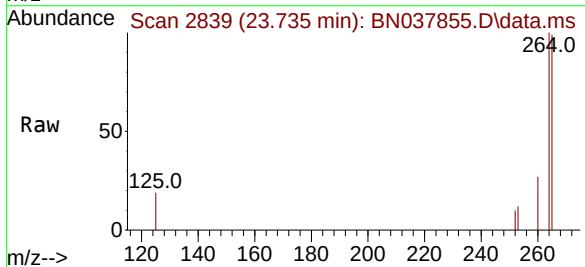
Instrument :
BNA_N
ClientSampleId :
DUP07-20250915DL

Tgt Ion:149 Resp: 511
Ion Ratio Lower Upper
149 100
167 28.6 20.8 31.2
279 5.9 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.735 min Scan# 2839
Delta R.T. -0.018 min
Lab File: BN037855.D
Acq: 22 Sep 2025 13:56

Tgt Ion:264 Resp: 7550
Ion Ratio Lower Upper
264 100
260 27.5 21.8 32.8
265 99.0 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/15/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/17/25
Client Sample ID:	TT158I1-20250915	SDG No.:	Q3127
Lab Sample ID:	Q3127-05	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
BN037834.D	1	09/18/25 11:35	09/20/25 03:48	PB169743

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	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		84%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	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	6380	7.825				
1146-65-2	Naphthalene-d8	16500	10.626				
15067-26-2	Acenaphthene-d10	6680	14.484				
1517-22-2	Phenanthrene-d10	12000	17.223				
1719-03-5	Chrysene-d12	10400	21.402				
1520-96-3	Perylene-d12	9920	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 : BN037834.D
Acq On : 20 Sep 2025 03:48
Operator : RC/JU
Sample : Q3127-05
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT15811-20250915

Quant Time: Sep 20 04:27:17 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

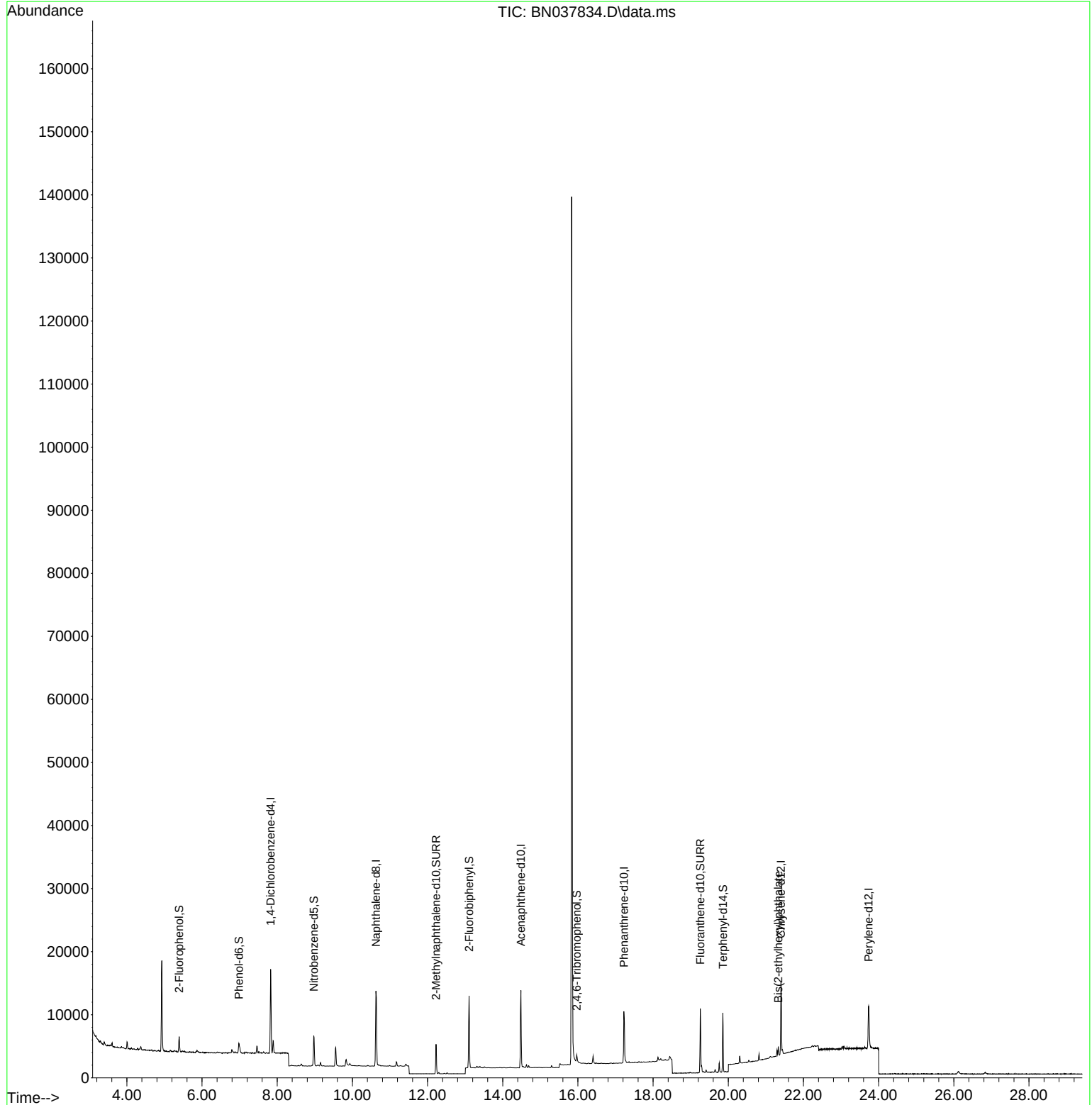
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	6378	0.400	ng	-0.01
7) Naphthalene-d8	10.626	136	16488	0.400	ng	#-0.02
13) Acenaphthene-d10	14.484	164	6684	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	11955	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	10371	0.400	ng	#-0.02
35) Perylene-d12	23.736	264	9922	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1856	0.127	ng	0.00
5) Phenol-d6	6.980	99	1359	0.072	ng	0.00
8) Nitrobenzene-d5	8.971	82	4053	0.336	ng	-0.02
11) 2-Methylnaphthalene-d10	12.227	152	6123	0.280	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	711	0.408	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	9287	0.332	ng	-0.01
27) Fluoranthene-d10	19.257	212	10883	0.363	ng	-0.01
31) Terphenyl-d14	19.856	244	8390	0.399	ng	-0.01
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.331	149	1310	0.122	ng	Qvalue # 96

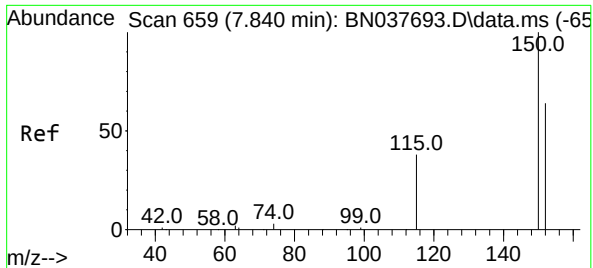
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037834.D
Acq On : 20 Sep 2025 03:48
Operator : RC/JU
Sample : Q3127-05
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT15811-20250915

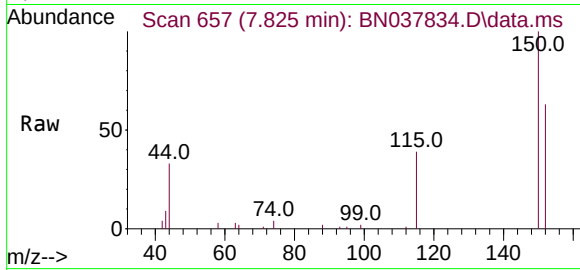
Quant Time: Sep 20 04:27:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



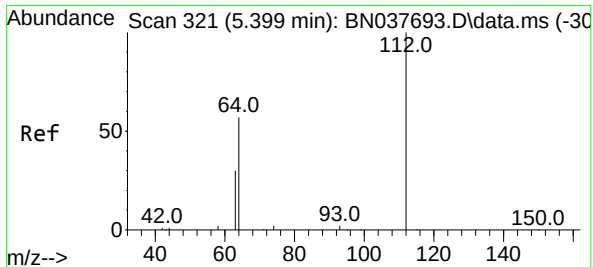
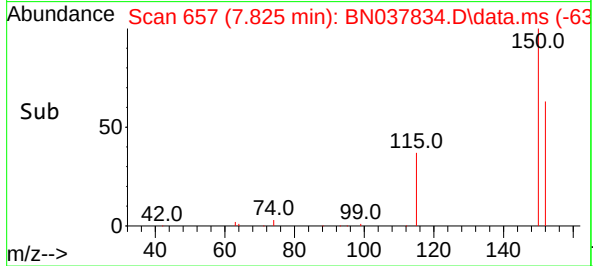
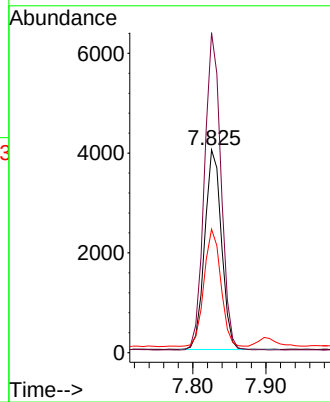


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN037834.D
Acq: 20 Sep 2025 03:48

Instrument :
BNA_N
ClientSampleId :
TT15811-20250915

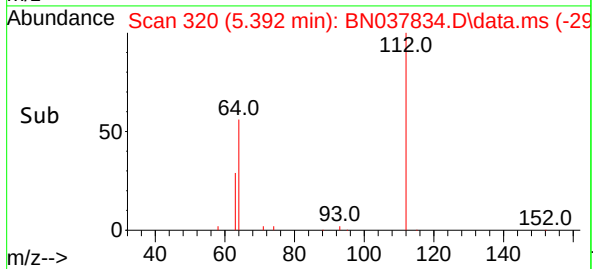
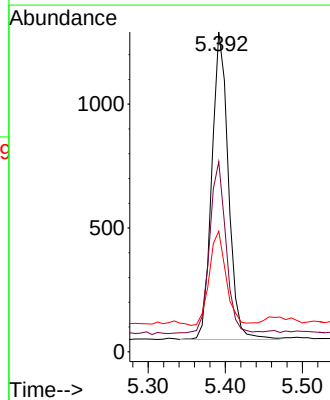
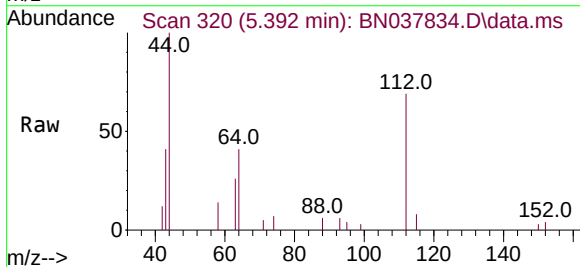


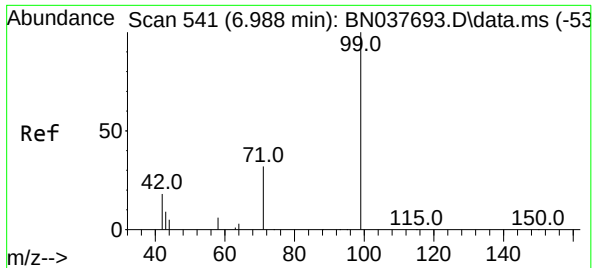
Tgt Ion:152 Resp: 6378
Ion Ratio Lower Upper
152 100
150 157.8 124.5 186.7
115 60.9 49.2 73.8



#4
2-Fluorophenol
Concen: 0.127 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037834.D
Acq: 20 Sep 2025 03:48

Tgt Ion:112 Resp: 1856
Ion Ratio Lower Upper
112 100
64 55.5 44.9 67.3
63 30.9 24.7 37.1

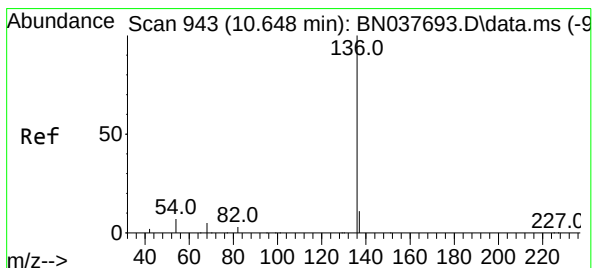
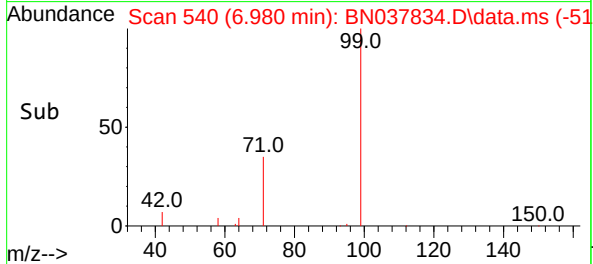
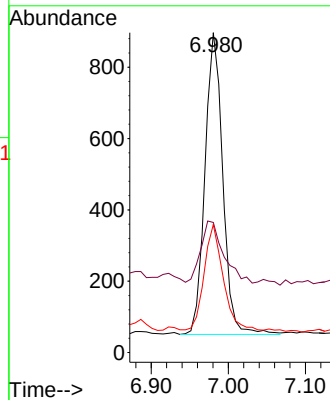
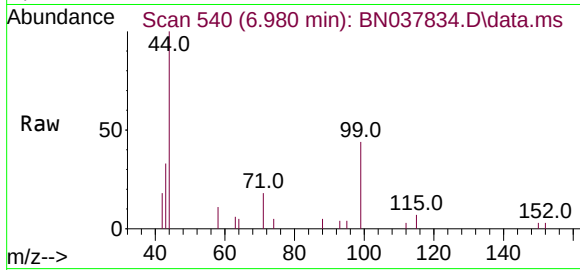




#5
Phenol-d6
Concen: 0.072 ng
RT: 6.980 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037834.D
Acq: 20 Sep 2025 03:48

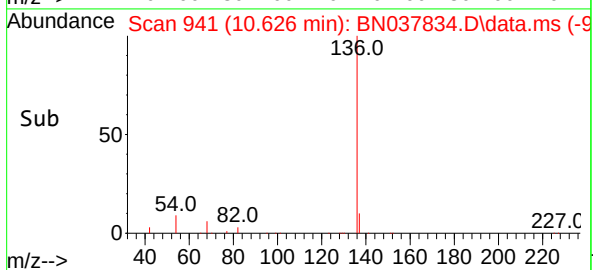
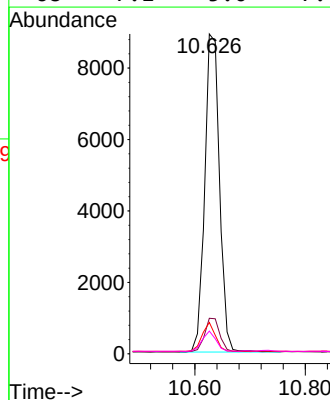
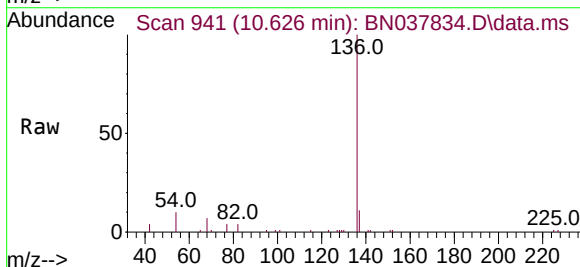
Instrument :
BNA_N
ClientSampleId :
TT15811-20250915

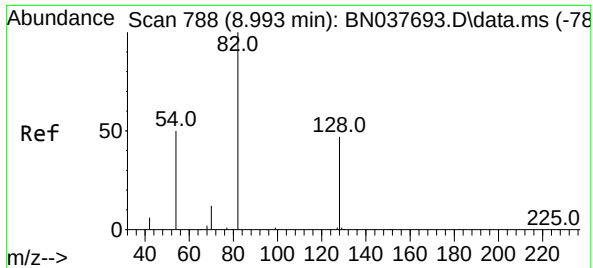
Tgt Ion: 99 Resp: 1359
Ion Ratio Lower Upper
99 100
42 25.4 16.6 24.8#
71 37.2 26.7 40.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.021 min
Lab File: BN037834.D
Acq: 20 Sep 2025 03:48

Tgt Ion: 136 Resp: 16488
Ion Ratio Lower Upper
136 100
137 11.1 9.1 13.7
54 9.8 6.3 9.5#
68 7.1 5.0 7.4

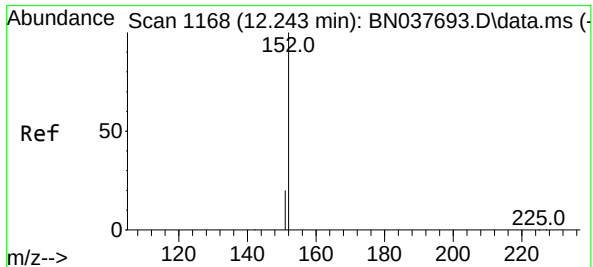
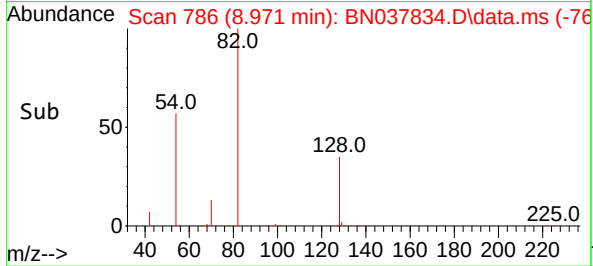
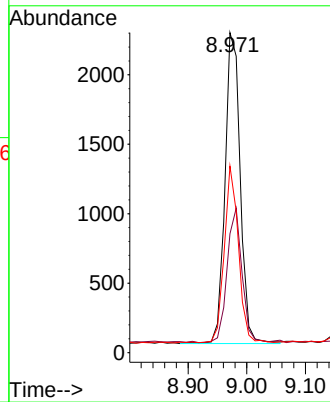
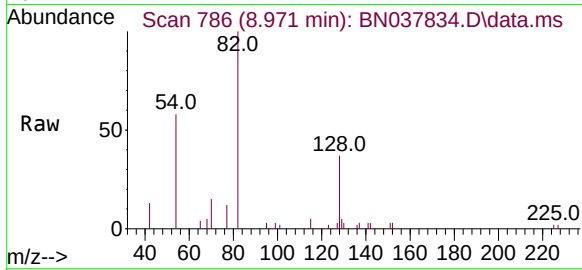




#8
Nitrobenzene-d5
Concen: 0.336 ng
RT: 8.971 min Scan# 788
Delta R.T. -0.021 min
Lab File: BN037834.D
Acq: 20 Sep 2025 03:48

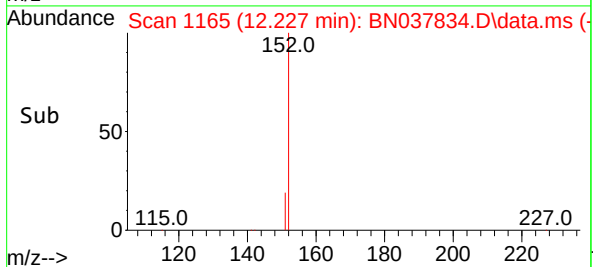
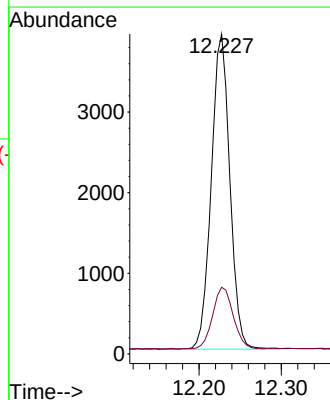
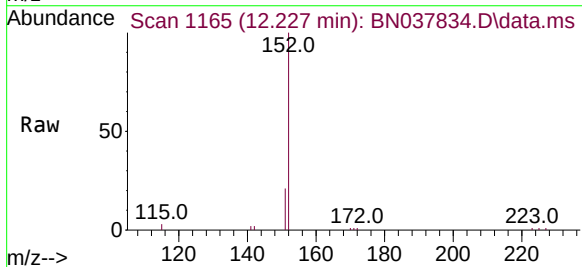
Instrument :
BNA_N
ClientSampleId :
TT15811-20250915

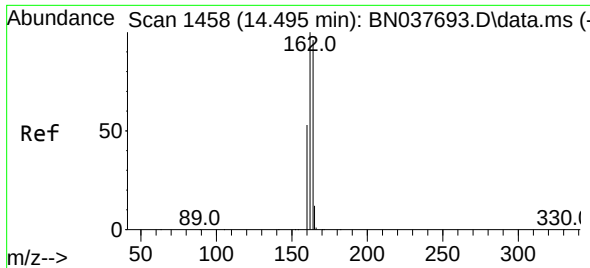
Tgt Ion:	82	Resp:	4053
Ion	Ratio	Lower	Upper
82	100		
128	37.1	38.3	57.5#
54	58.3	41.4	62.2



#11
2-Methylnaphthalene-d10
Concen: 0.280 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037834.D
Acq: 20 Sep 2025 03:48

Tgt Ion:	152	Resp:	6123
Ion	Ratio	Lower	Upper
152	100		
151	21.6	17.0	25.6

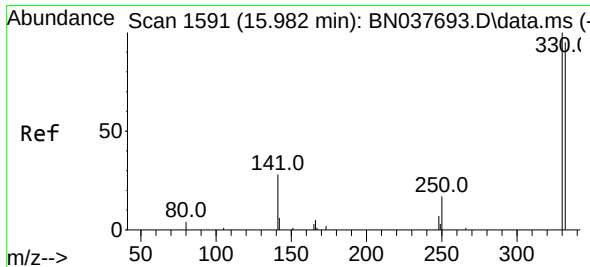
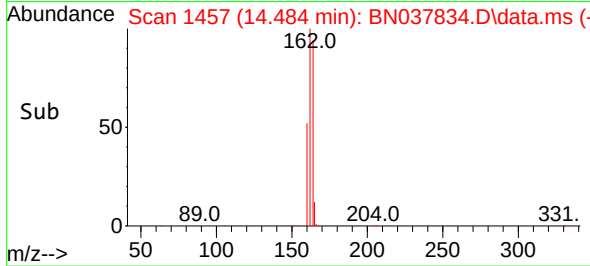
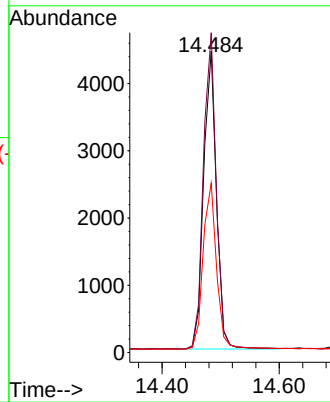
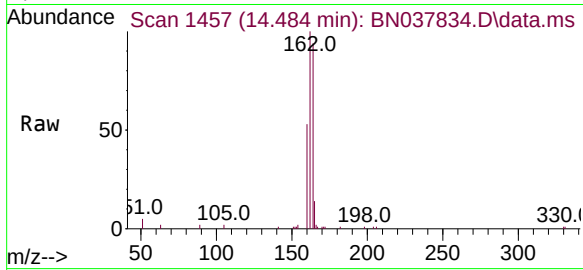




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1458
Delta R.T. -0.011 min
Lab File: BN037834.D
Acq: 20 Sep 2025 03:48

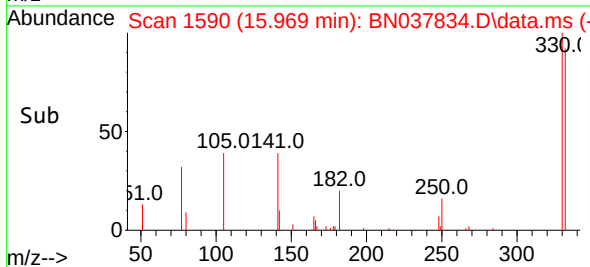
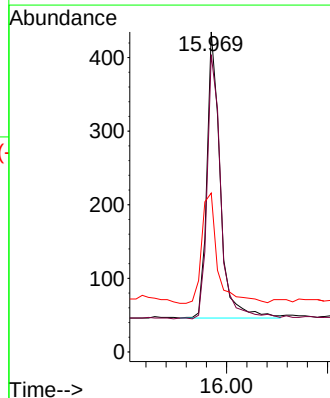
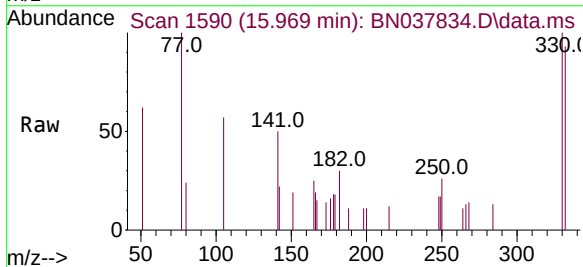
Instrument :
BNA_N
ClientSampleId :
TT15811-20250915

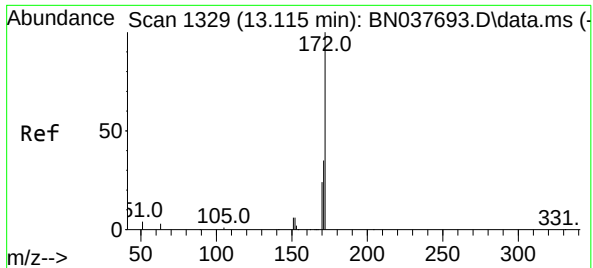
Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.1	83.1	124.7
160	56.2	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.408 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037834.D
Acq: 20 Sep 2025 03:48

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.4	75.3	112.9
141	45.4	35.0	52.4

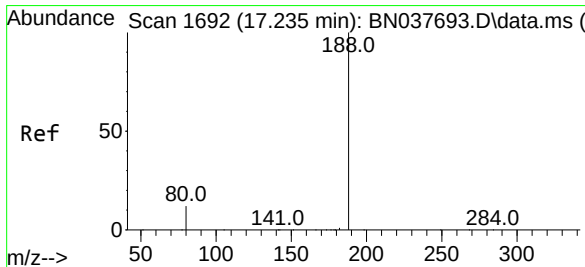
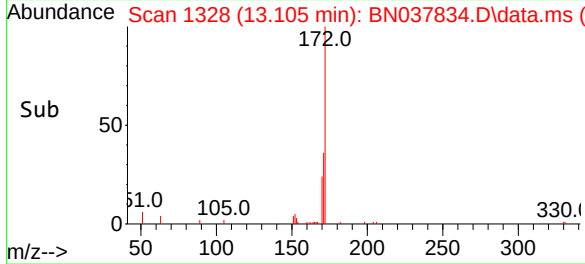
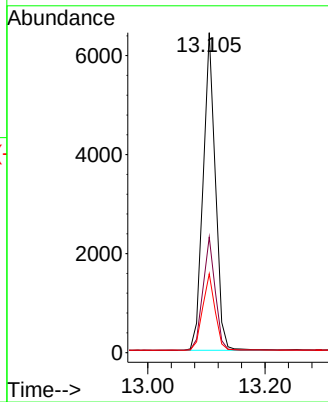
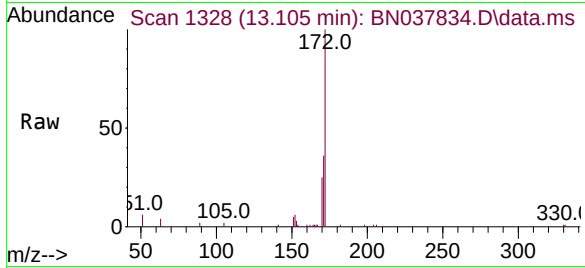




#15
2-Fluorobiphenyl
Concen: 0.332 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037834.D
Acq: 20 Sep 2025 03:48

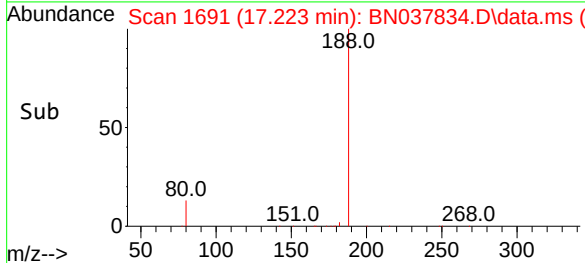
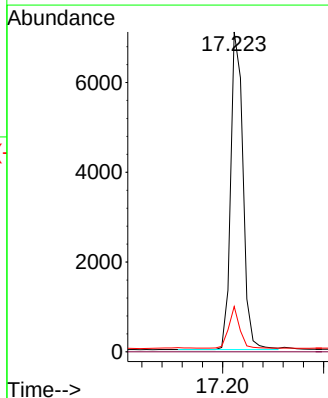
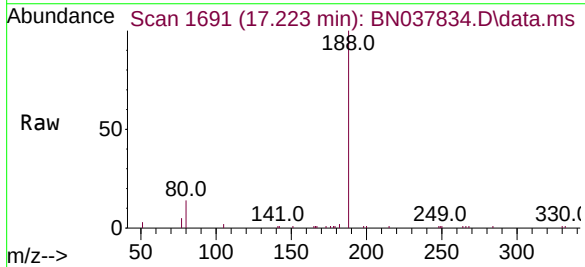
Instrument :
BNA_N
ClientSampleId :
TT15811-20250915

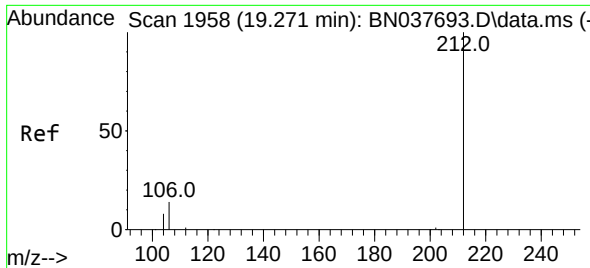
Tgt Ion:	172	Resp:	9287
Ion Ratio	Lower	Upper	
172	100		
171	36.1	28.6	43.0
170	24.6	19.8	29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.013 min
Lab File: BN037834.D
Acq: 20 Sep 2025 03:48

Tgt Ion:	188	Resp:	11955
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	14.2	10.6	15.8





#27

Fluoranthene-d10

Concen: 0.363 ng

RT: 19.257 min Scan# 1955

Delta R.T. -0.014 min

Lab File: BN037834.D

Acq: 20 Sep 2025 03:48

Instrument :

BNA_N

ClientSampleId :

TT15811-20250915

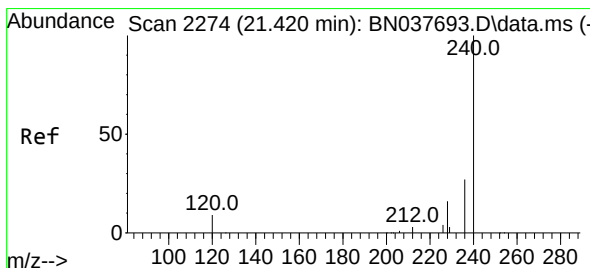
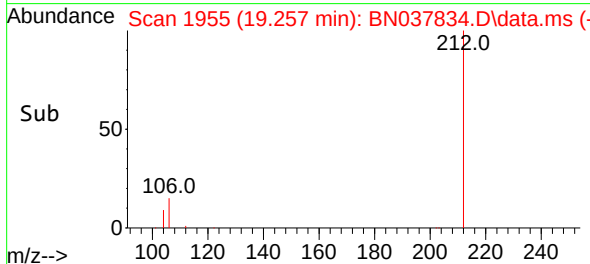
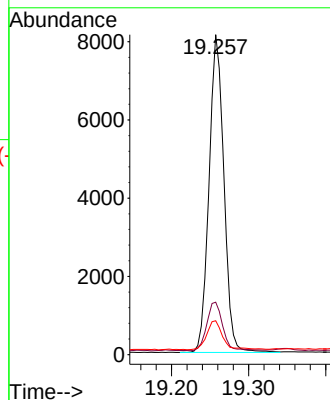
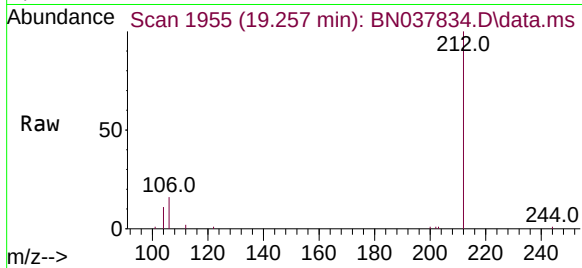
Tgt Ion:212 Resp: 10883

Ion Ratio Lower Upper

212 100

106 16.4 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: BN037834.D

Acq: 20 Sep 2025 03:48

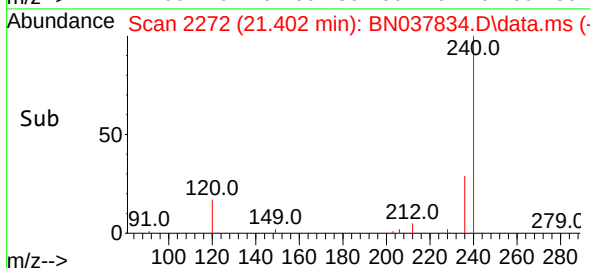
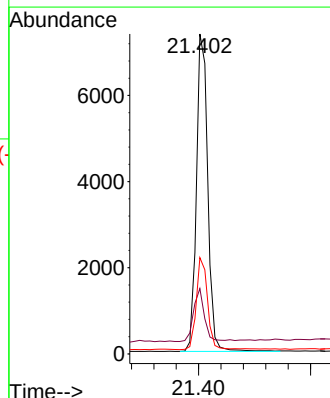
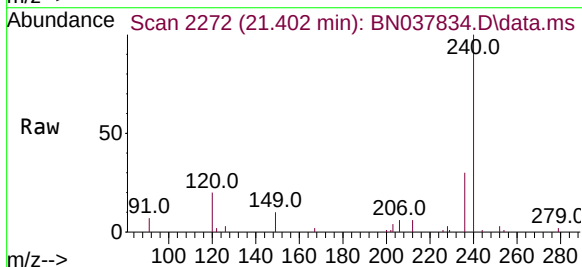
Tgt Ion:240 Resp: 10371

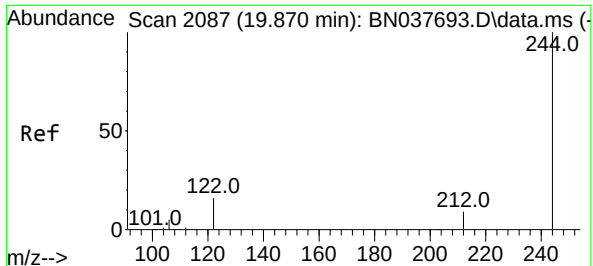
Ion Ratio Lower Upper

240 100

120 20.4 9.2 13.8

236 30.1 22.6 33.8

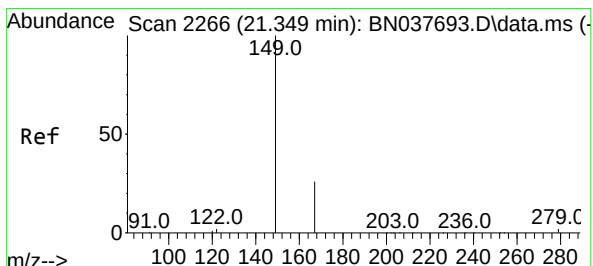
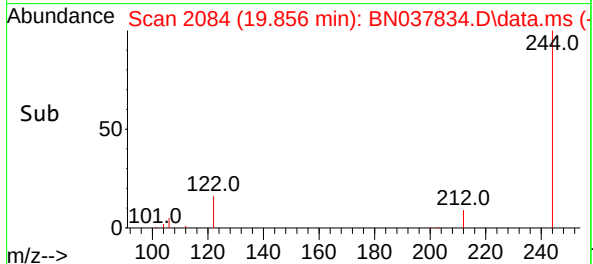
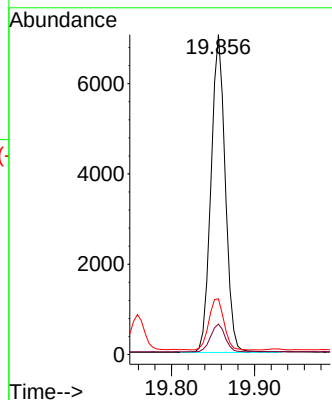
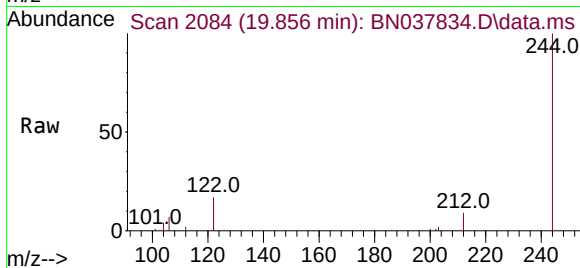




#31
Terphenyl-d14
Concen: 0.399 ng
RT: 19.856 min Scan# 2087
Delta R.T. -0.014 min
Lab File: BN037834.D
Acq: 20 Sep 2025 03:48

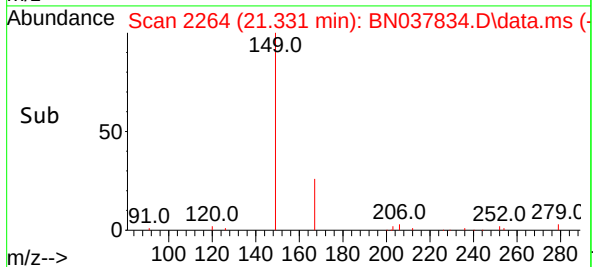
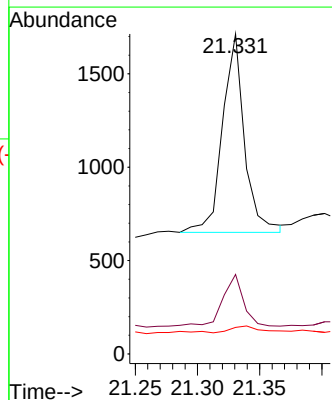
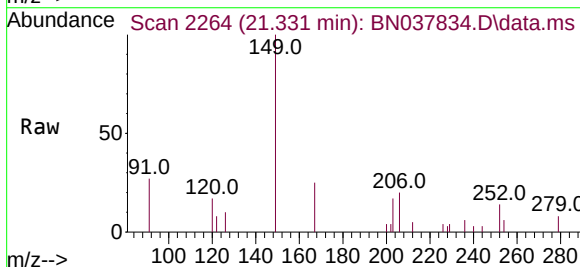
Instrument :
BNA_N
ClientSampleId :
TT15811-20250915

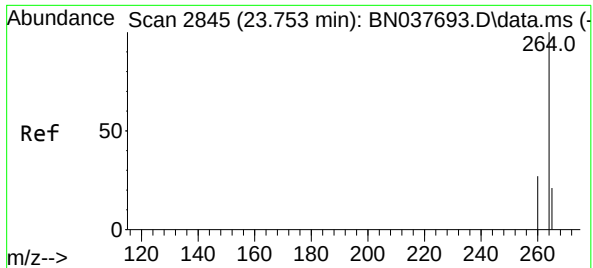
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.5	11.3
122	17.4	13.2	19.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.122 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037834.D
Acq: 20 Sep 2025 03:48

Tgt Ion	Ratio	Lower	Upper
149	100		
167	24.1	20.8	31.2
279	5.0	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: BN037834.D

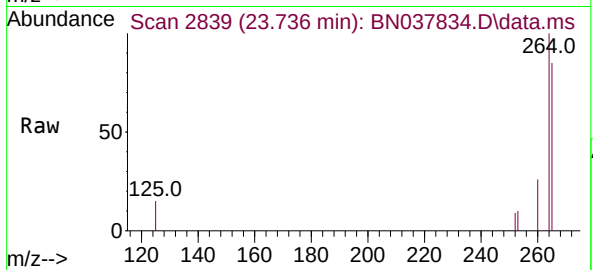
Acq: 20 Sep 2025 03:48

Instrument :

BNA_N

ClientSampleId :

TT15811-20250915



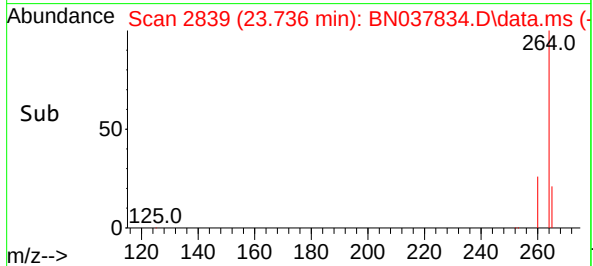
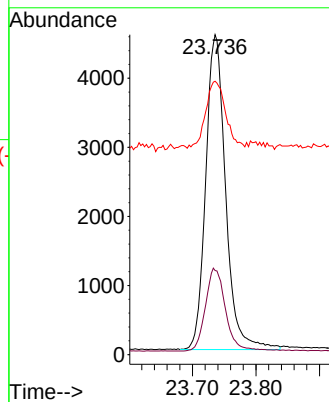
Tgt Ion:264 Resp: 9922

Ion Ratio Lower Upper

264 100

260 26.3 21.8 32.8

265 85.4 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/15/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/17/25
Client Sample ID:	TT180D2-20250915	SDG No.:	Q3127
Lab Sample ID:	Q3127-06	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
BN037835.D	1	09/18/25 11:35	09/20/25 04:25	PB169743

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.70		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		67%	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		83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		78%	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	6060	7.833				
1146-65-2	Naphthalene-d8	15600	10.637				
15067-26-2	Acenaphthene-d10	6420	14.484				
1517-22-2	Phenanthrene-d10	10900	17.223				
1719-03-5	Chrysene-d12	9480	21.402				
1520-96-3	Perylene-d12	8890	23.735				

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 : BN037835.D
Acq On : 20 Sep 2025 04:25
Operator : RC/JU
Sample : Q3127-06
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT180D2-20250915

Quant Time: Sep 20 04:50:43 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

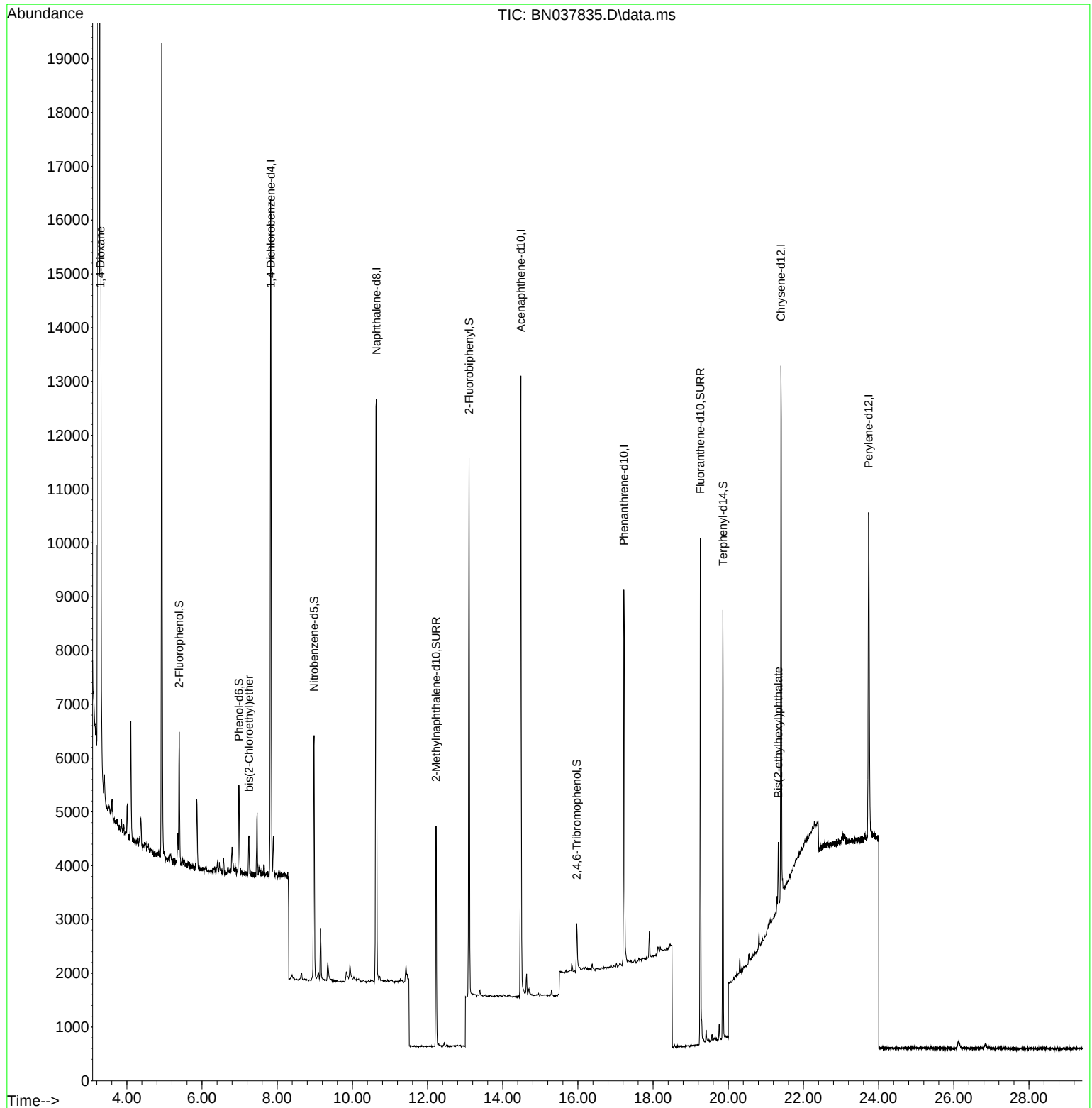
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	6064	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	15560	0.400	ng	#-0.01
13) Acenaphthene-d10	14.484	164	6417	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	10868	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	9475	0.400	ng	#-0.02
35) Perylene-d12	23.735	264	8893	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.391	112	1933	0.139	ng	0.00
5) Phenol-d6	6.980	99	1431	0.079	ng	0.00
8) Nitrobenzene-d5	8.982	82	3780	0.332	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	5533	0.268	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	598	0.357	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	8399	0.313	ng	-0.01
27) Fluoranthene-d10	19.257	212	10026	0.367	ng	-0.01
31) Terphenyl-d14	19.856	244	7293	0.379	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	28780	4.557	ng	Qvalue 96
6) bis(2-Chloroethyl)ether	7.248	93	499	0.031	ng	97
34) Bis(2-ethylhexyl)phtha...	21.330	149	1233	0.126	ng	# 98

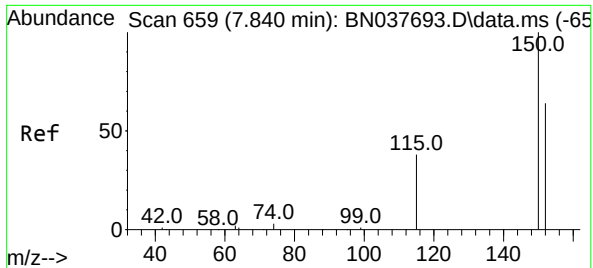
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037835.D
Acq On : 20 Sep 2025 04:25
Operator : RC/JU
Sample : Q3127-06
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT180D2-20250915

Quant Time: Sep 20 04:50:43 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

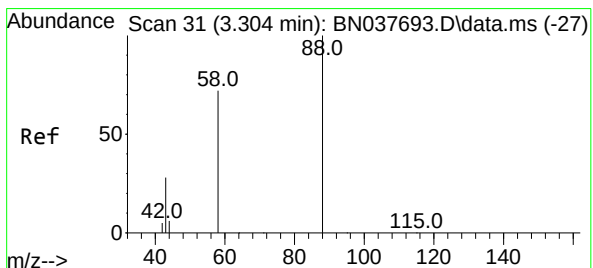
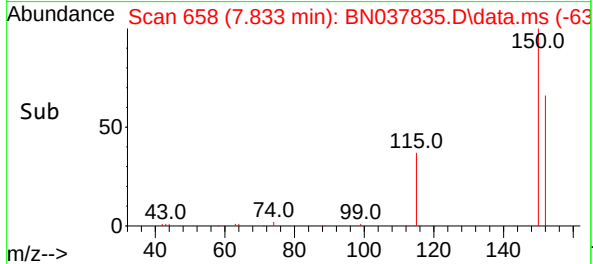
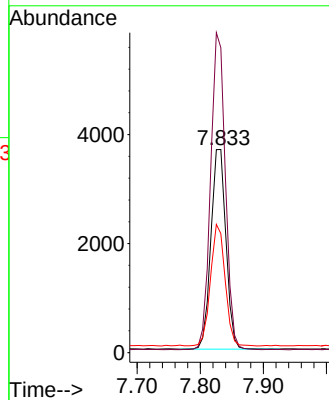
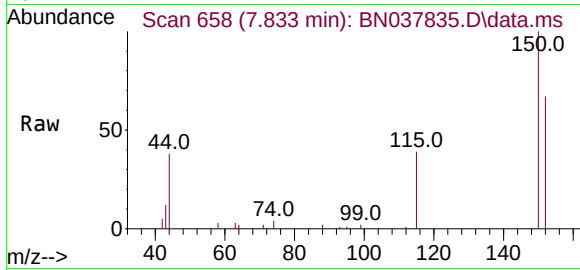




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037835.D
Acq: 20 Sep 2025 04:25

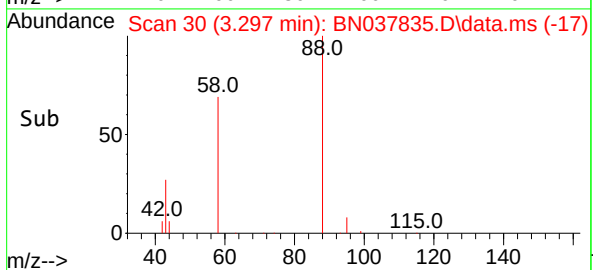
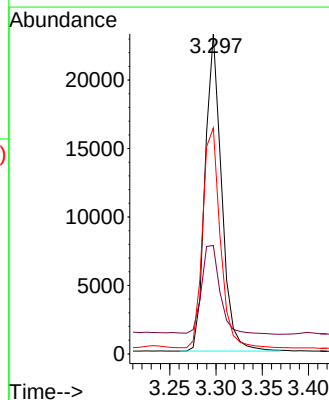
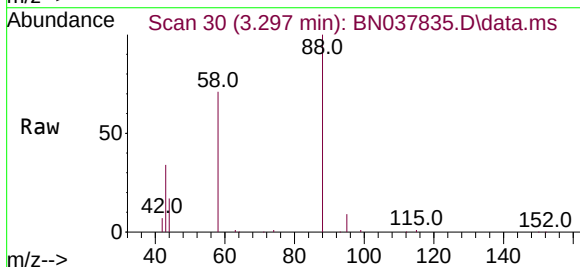
Instrument :
BNA_N
ClientSampleId :
TT180D2-20250915

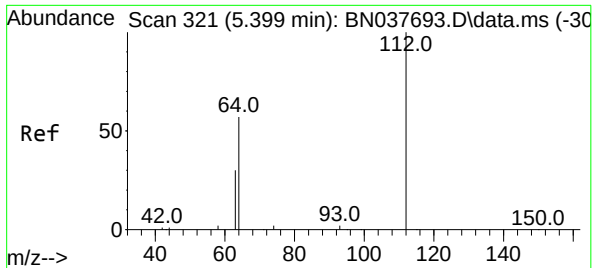
Tgt Ion:152 Resp: 6064
Ion Ratio Lower Upper
152 100
150 150.1 124.5 186.7
115 58.6 49.2 73.8



#2
1,4-Dioxane
Concen: 4.557 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037835.D
Acq: 20 Sep 2025 04:25

Tgt Ion: 88 Resp: 28780
Ion Ratio Lower Upper
88 100
43 31.4 26.8 40.2
58 73.9 61.9 92.9

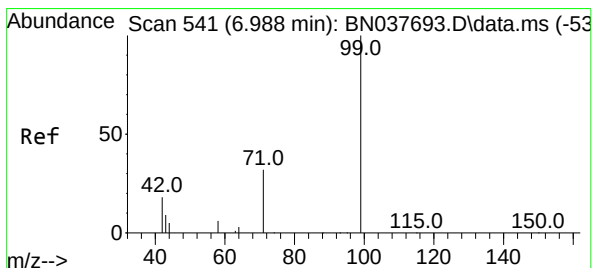
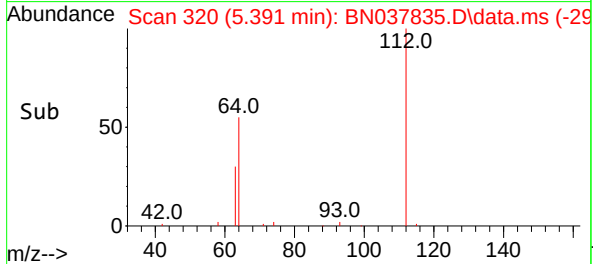
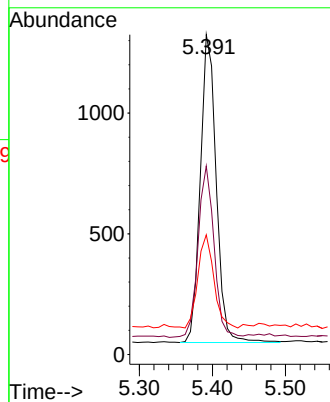
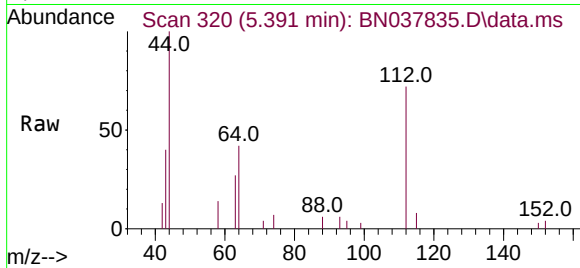




#4
2-Fluorophenol
Concen: 0.139 ng
RT: 5.391 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037835.D
Acq: 20 Sep 2025 04:25

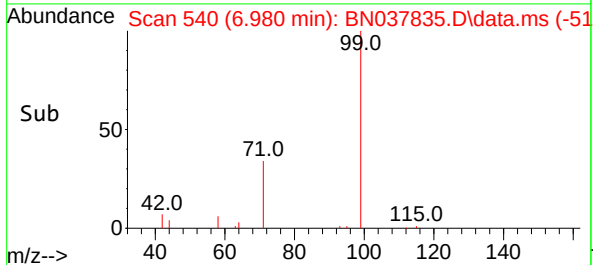
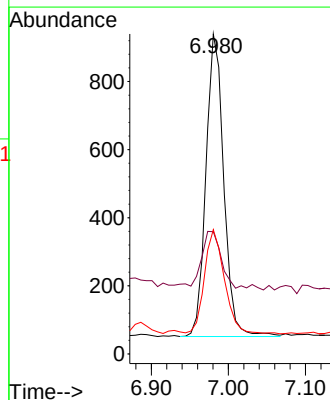
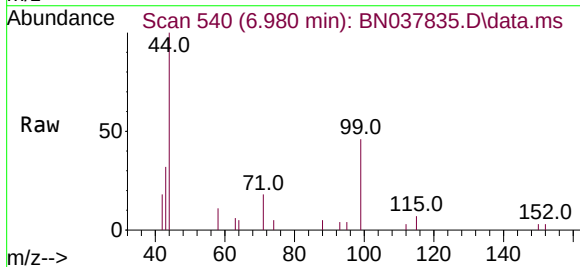
Instrument :
BNA_N
ClientSampleId :
TT180D2-20250915

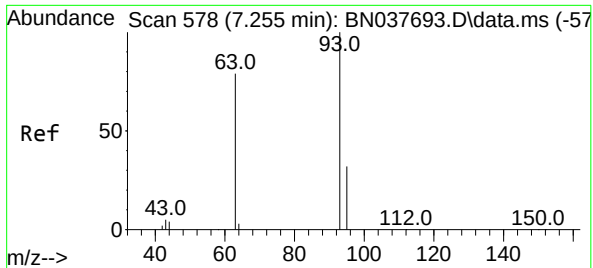
Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.8	44.9	67.3
63	30.4	24.7	37.1



#5
Phenol-d6
Concen: 0.079 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037835.D
Acq: 20 Sep 2025 04:25

Tgt Ion	Ratio	Lower	Upper
99	100		
42	19.7	16.6	24.8
71	38.8	26.7	40.1

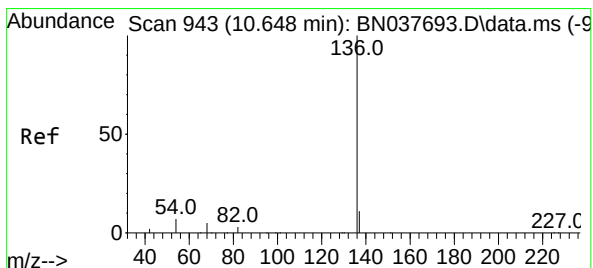
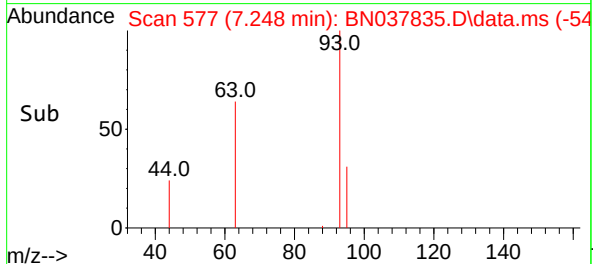
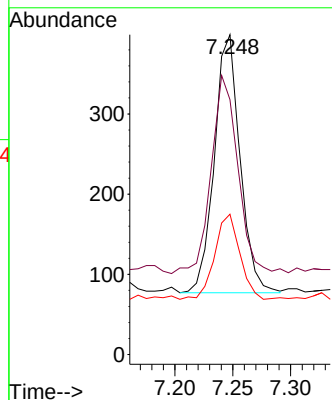
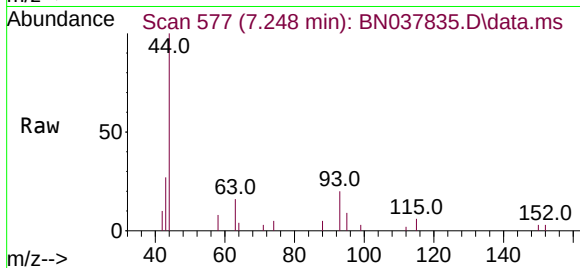




#6
bis(2-Chloroethyl)ether
Concen: 0.031 ng
RT: 7.248 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037835.D
Acq: 20 Sep 2025 04:25

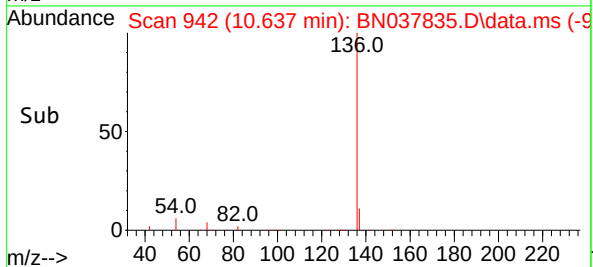
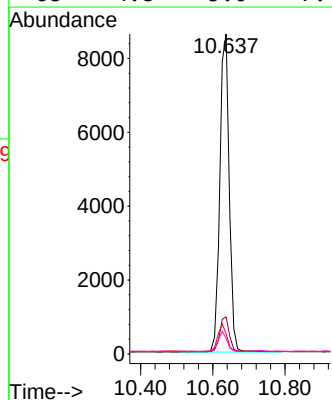
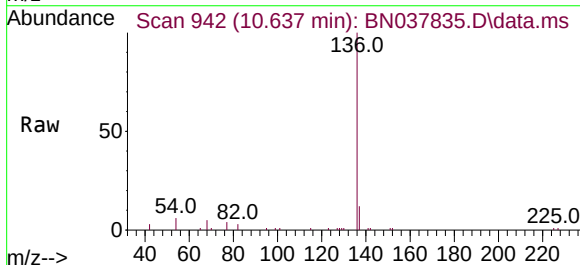
Instrument :
BNA_N
ClientSampleId :
TT180D2-20250915

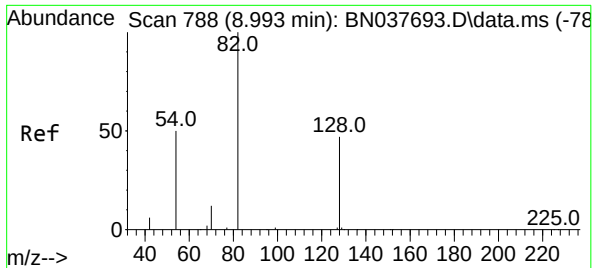
Tgt Ion:	93	Resp:	499
Ion	Ratio	Lower	Upper
93	100		
63	79.6	60.6	90.8
95	32.1	26.0	39.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN037835.D
Acq: 20 Sep 2025 04:25

Tgt Ion:	136	Resp:	15560
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	6.3	6.3	9.5#
68	4.8	5.0	7.4#

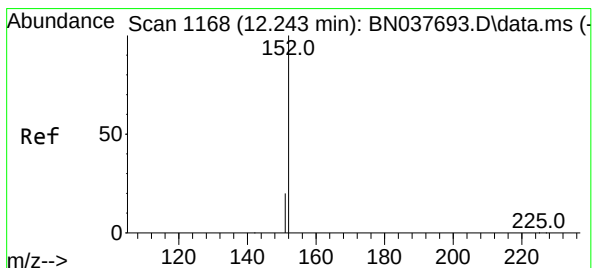
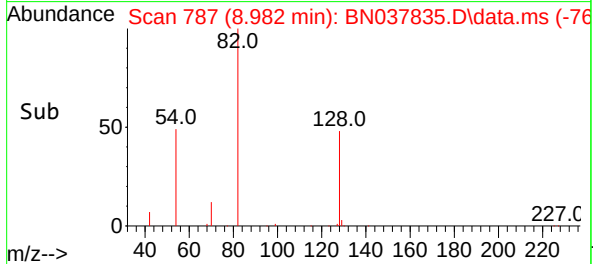
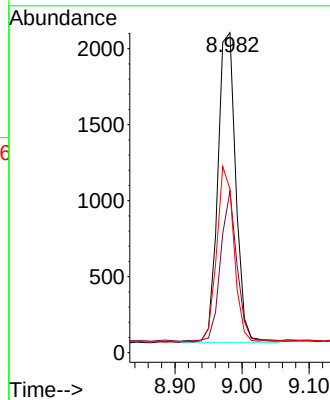
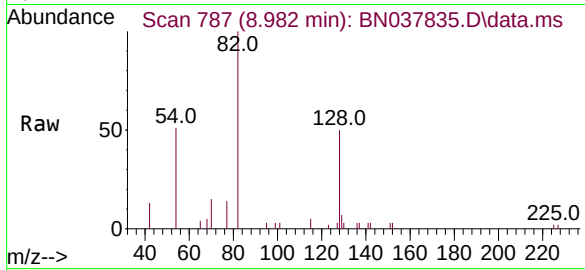




#8
Nitrobenzene-d5
Concen: 0.332 ng
RT: 8.982 min Scan# 788
Delta R.T. -0.011 min
Lab File: BN037835.D
Acq: 20 Sep 2025 04:25

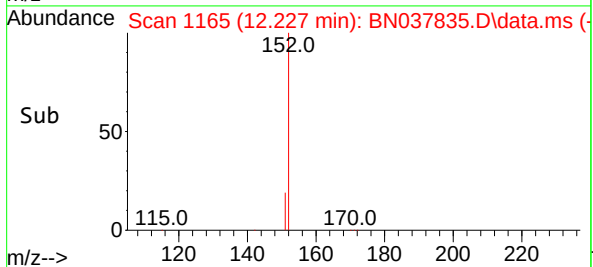
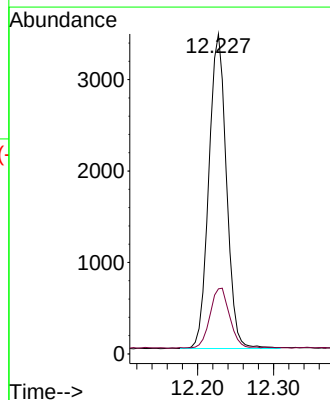
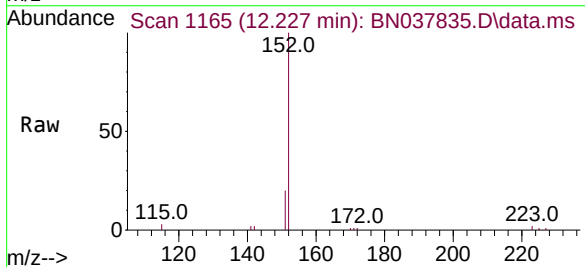
Instrument :
BNA_N
ClientSampleId :
TT180D2-20250915

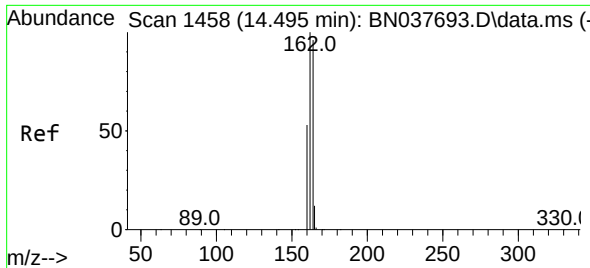
Tgt Ion: 82 Resp: 3780
Ion Ratio Lower Upper
82 100
128 50.5 38.3 57.5
54 51.1 41.4 62.2



#11
2-Methylnaphthalene-d10
Concen: 0.268 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037835.D
Acq: 20 Sep 2025 04:25

Tgt Ion: 152 Resp: 5533
Ion Ratio Lower Upper
152 100
151 21.0 17.0 25.6

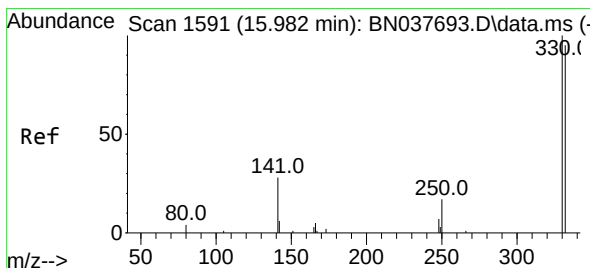
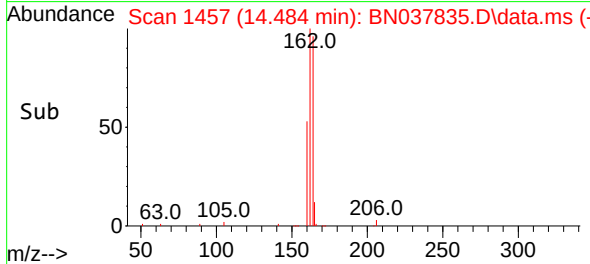
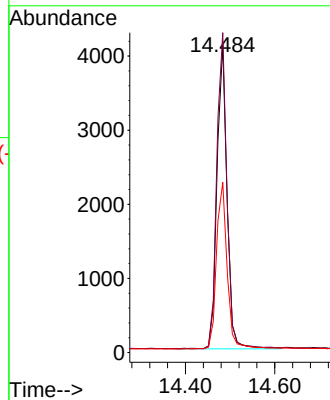
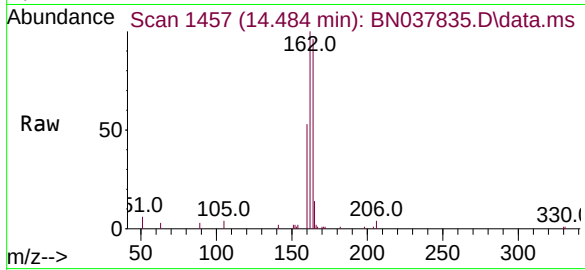




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037835.D
Acq: 20 Sep 2025 04:25

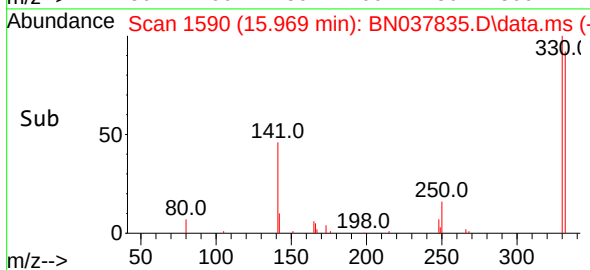
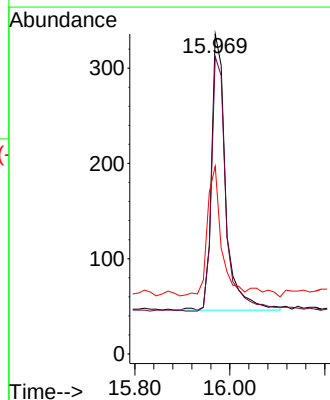
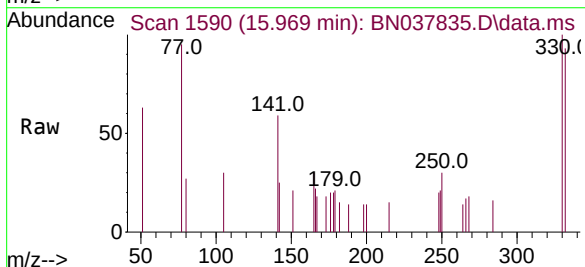
Instrument :
BNA_N
ClientSampleId :
TT180D2-20250915

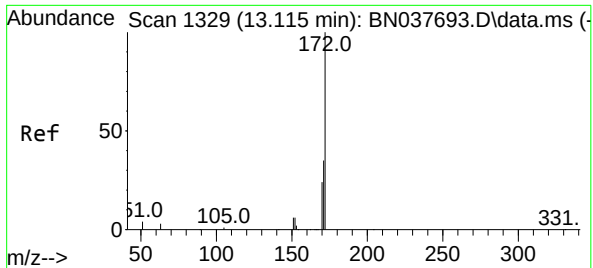
Tgt Ion	164	Resp:	6417
Ion Ratio	Lower	Upper	
164	100		
162	104.0	83.1	124.7
160	55.4	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.357 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037835.D
Acq: 20 Sep 2025 04:25

Tgt Ion	330	Resp:	598
Ion Ratio	Lower	Upper	
330	100		
332	95.3	75.3	112.9
141	45.8	35.0	52.4

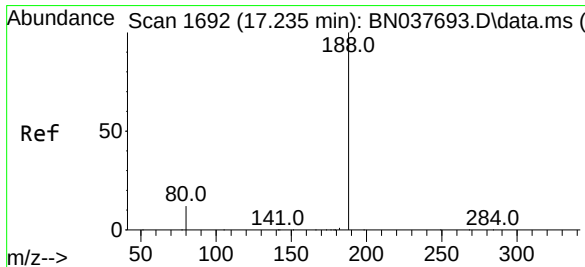
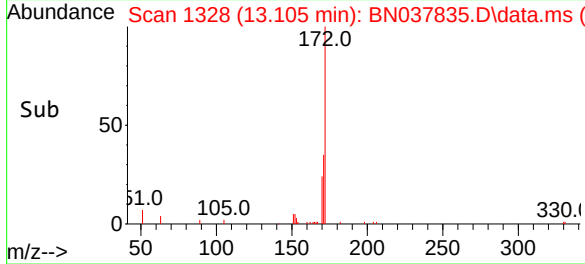
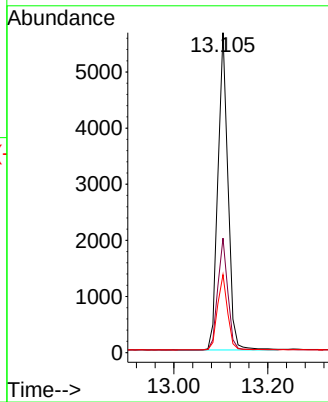
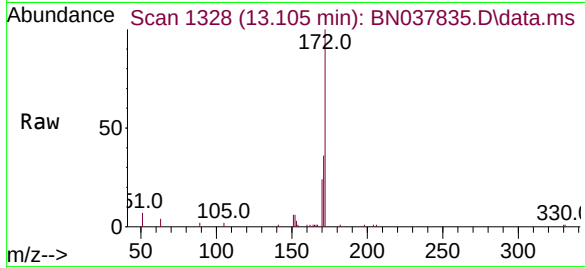




#15
2-Fluorobiphenyl
Concen: 0.313 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037835.D
Acq: 20 Sep 2025 04:25

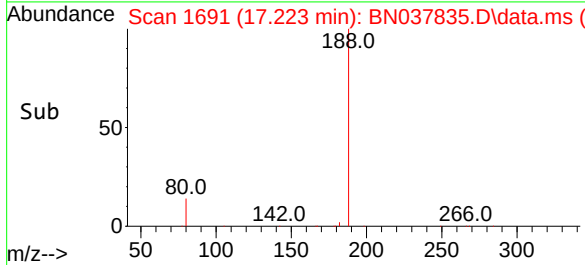
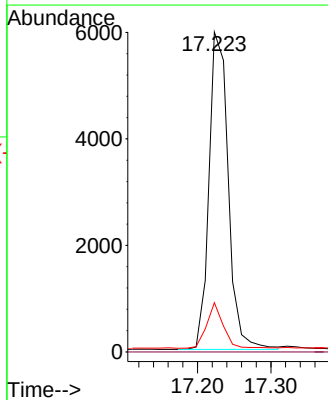
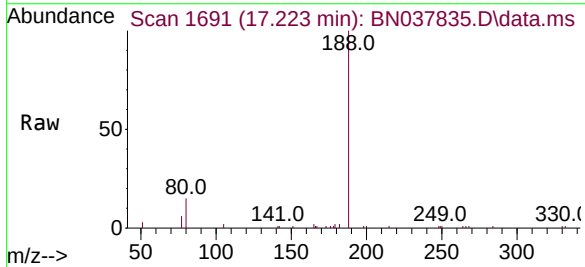
Instrument :
BNA_N
ClientSampleId :
TT180D2-20250915

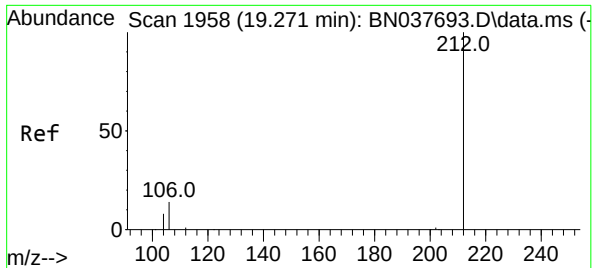
Tgt Ion:	172	Resp:	8399
Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	24.4	19.8	29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.013 min
Lab File: BN037835.D
Acq: 20 Sep 2025 04:25

Tgt Ion:	188	Resp:	10868
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.4	10.6	15.8





#27

Fluoranthene-d10

Concen: 0.367 ng

RT: 19.257 min Scan# 19

Delta R.T. -0.014 min

Lab File: BN037835.D

Acq: 20 Sep 2025 04:25

Instrument :

BNA_N

ClientSampleId :

TT180D2-20250915

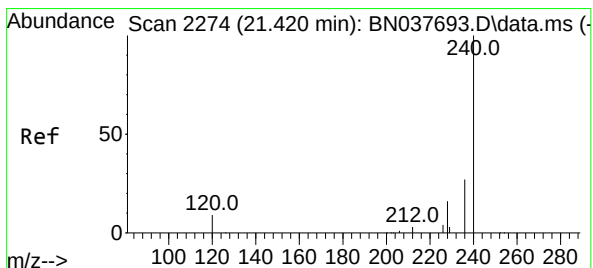
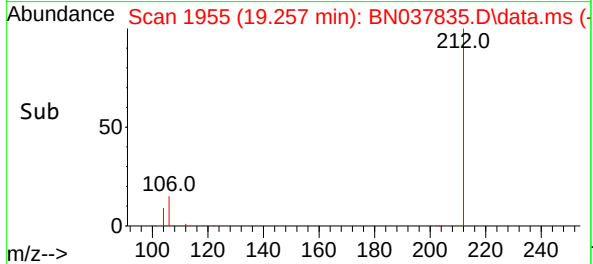
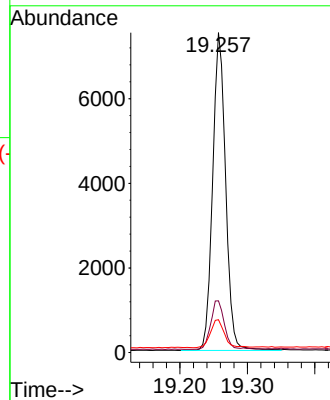
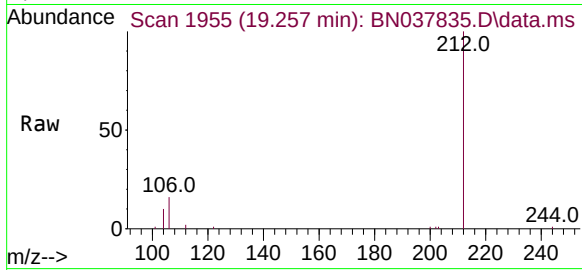
Tgt Ion:212 Resp: 10026

Ion Ratio Lower Upper

212 100

106 16.2 12.2 18.2

104 9.5 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: BN037835.D

Acq: 20 Sep 2025 04:25

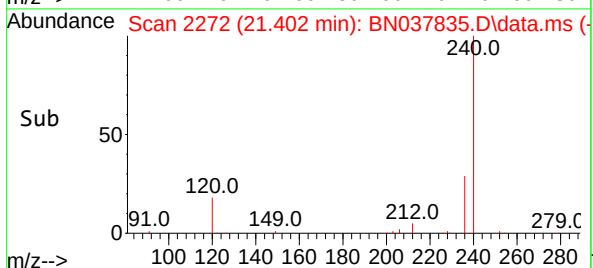
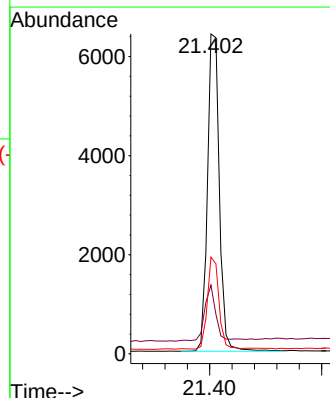
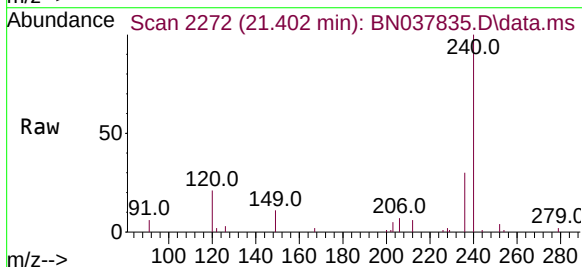
Tgt Ion:240 Resp: 9475

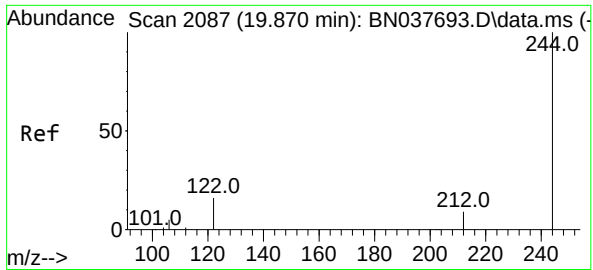
Ion Ratio Lower Upper

240 100

120 21.5 9.2 13.8#

236 30.2 22.6 33.8

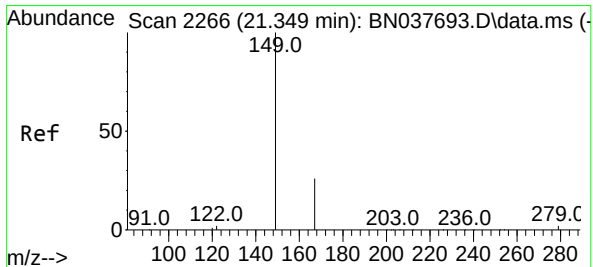
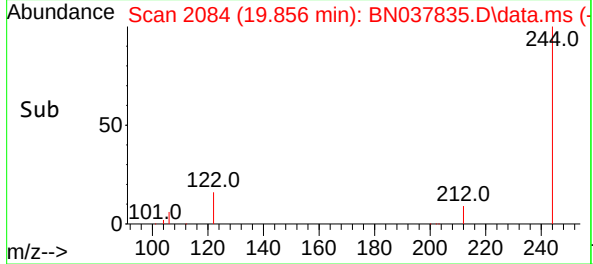
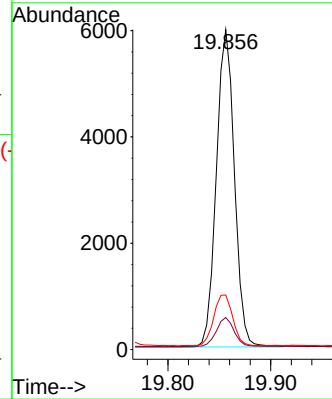
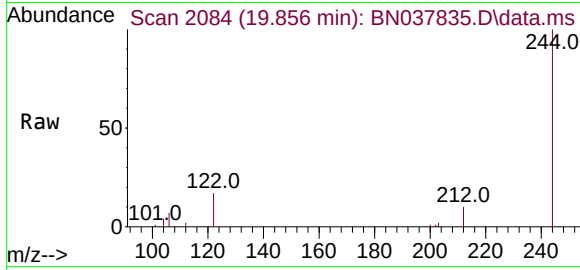




#31
 Terphenyl-d14
 Concen: 0.379 ng
 RT: 19.856 min Scan# 2084
 Delta R.T. -0.014 min
 Lab File: BN037835.D
 Acq: 20 Sep 2025 04:25

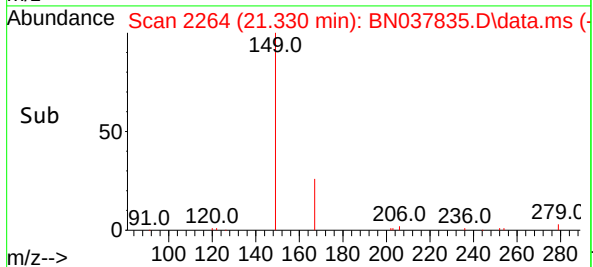
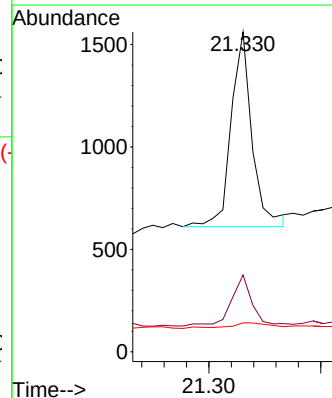
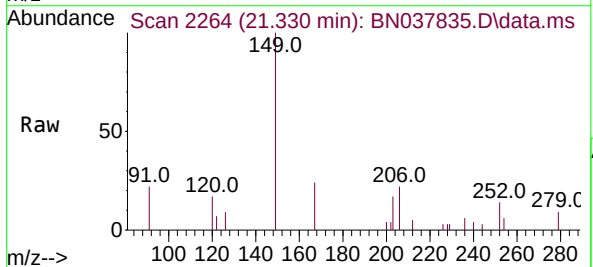
Instrument :
 BNA_N
 ClientSampleId :
 TT180D2-20250915

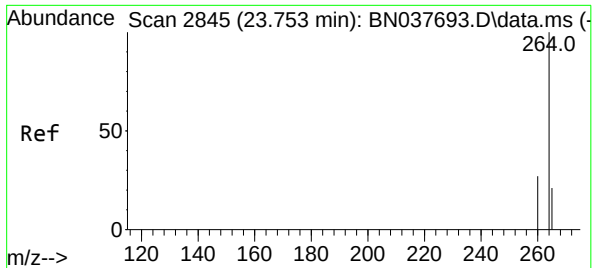
Tgt Ion:244 Resp: 7293
 Ion Ratio Lower Upper
 244 100
 212 10.0 7.5 11.3
 122 17.0 13.2 19.8



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.126 ng
 RT: 21.330 min Scan# 2264
 Delta R.T. -0.018 min
 Lab File: BN037835.D
 Acq: 20 Sep 2025 04:25

Tgt Ion:149 Resp: 1233
 Ion Ratio Lower Upper
 149 100
 167 26.5 20.8 31.2
 279 6.0 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.735 min Scan# 28

Delta R.T. -0.018 min

Lab File: BN037835.D

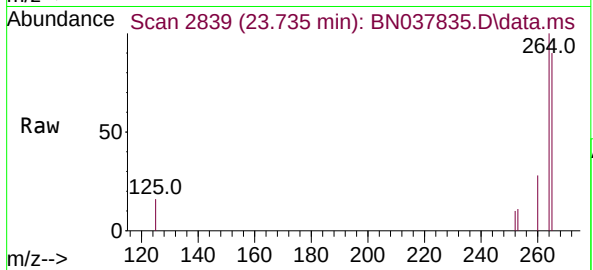
Acq: 20 Sep 2025 04:25

Instrument :

BNA_N

ClientSampleId :

TT180D2-20250915



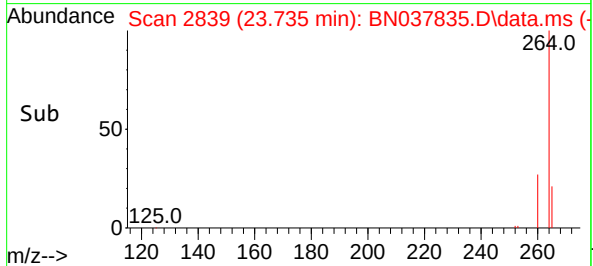
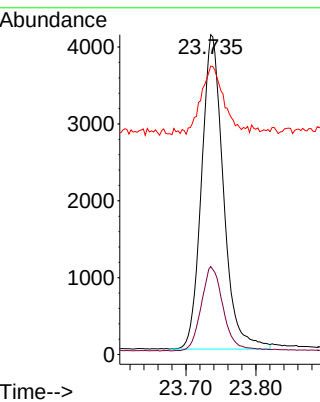
Tgt Ion:264 Resp: 8893

Ion Ratio Lower Upper

264 100

260 27.5 21.8 32.8

265 90.1 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/15/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/17/25
Client Sample ID:	RE135D2-20250915	SDG No.:	Q3127
Lab Sample ID:	Q3127-07	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
BN037836.D	1	09/18/25 11:35	09/20/25 05:01	PB169743

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.15	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		83%	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		100%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5390		7.826			
1146-65-2	Naphthalene-d8	14000		10.626			
15067-26-2	Acenaphthene-d10	5790		14.484			
1517-22-2	Phenanthrene-d10	10500		17.223			
1719-03-5	Chrysene-d12	8900		21.402			
1520-96-3	Perylene-d12	8420		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 : BN037836.D
Acq On : 20 Sep 2025 05:01
Operator : RC/JU
Sample : Q3127-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE135D2-20250915

Quant Time: Sep 20 05:54:16 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

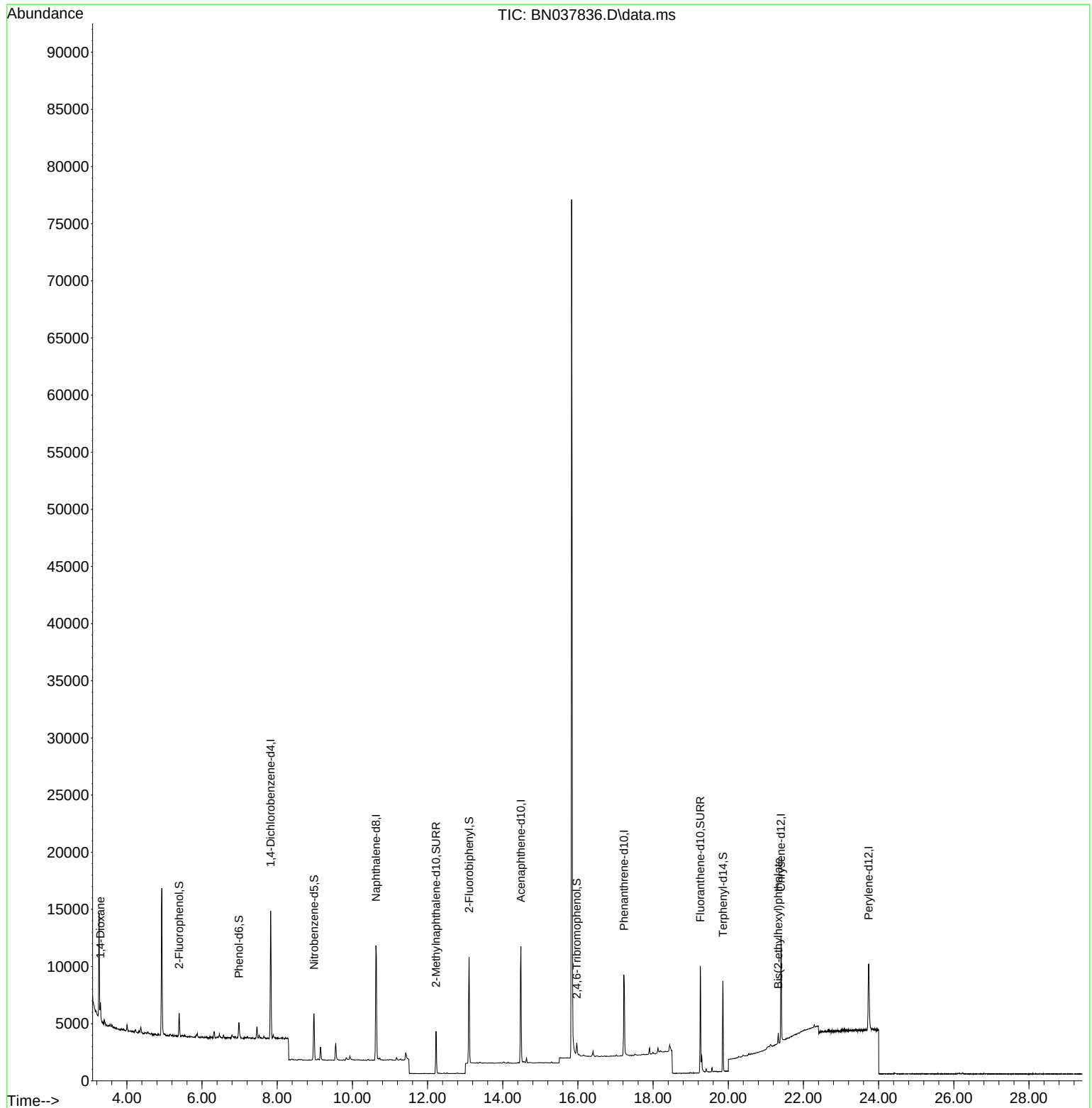
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.826	152	5391	0.400	ng	-0.01
7) Naphthalene-d8	10.626	136	14016	0.400	ng	#-0.02
13) Acenaphthene-d10	14.484	164	5793	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	10493	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	8896	0.400	ng	#-0.02
35) Perylene-d12	23.736	264	8424	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1591	0.129	ng	0.00
5) Phenol-d6	6.981	99	1140	0.071	ng	0.00
8) Nitrobenzene-d5	8.982	82	3414	0.333	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	5005	0.270	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	637	0.422	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	7634	0.315	ng	-0.01
27) Fluoranthene-d10	19.257	212	9853	0.374	ng	-0.01
31) Terphenyl-d14	19.857	244	7229	0.400	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	843	0.150	ng	# 81
34) Bis(2-ethylhexyl)phtha...	21.331	149	988	0.107	ng	# 99

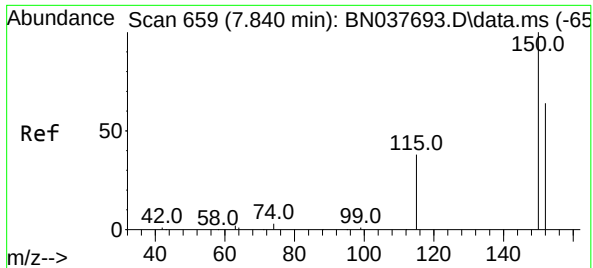
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037836.D
Acq On : 20 Sep 2025 05:01
Operator : RC/JU
Sample : Q3127-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE135D2-20250915

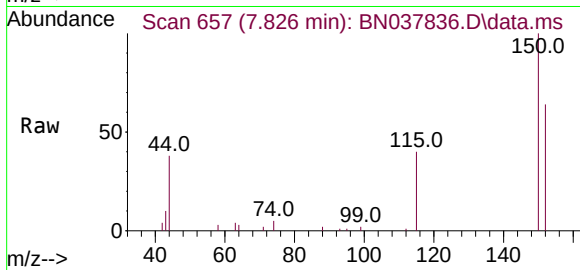
Quant Time: Sep 20 05:54:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



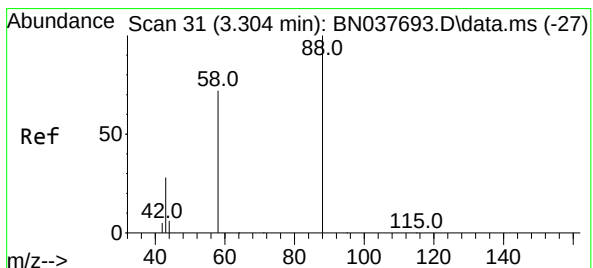
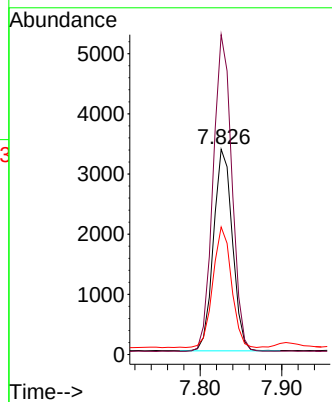
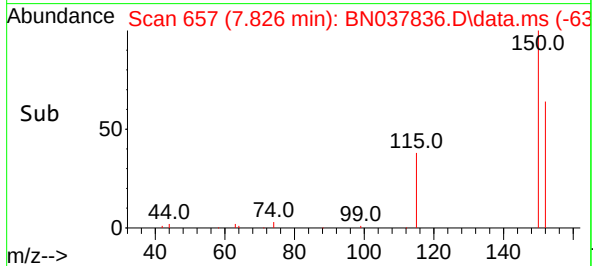


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 61
Delta R.T. -0.014 min
Lab File: BN037836.D
Acq: 20 Sep 2025 05:01

Instrument :
BNA_N
ClientSampleId :
RE135D2-20250915

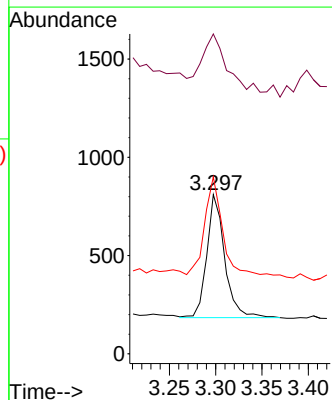
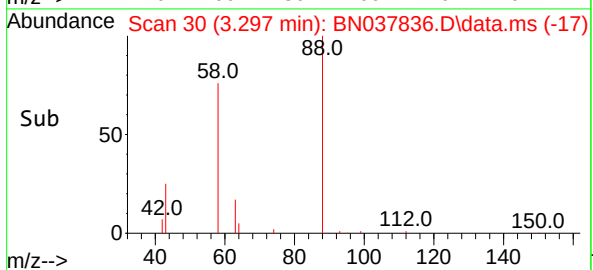
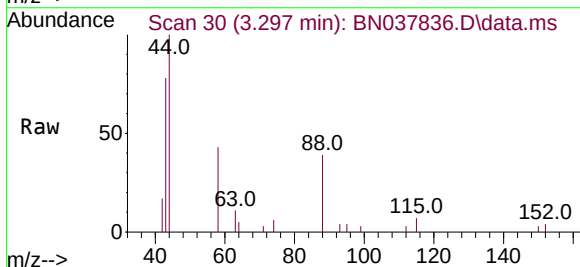


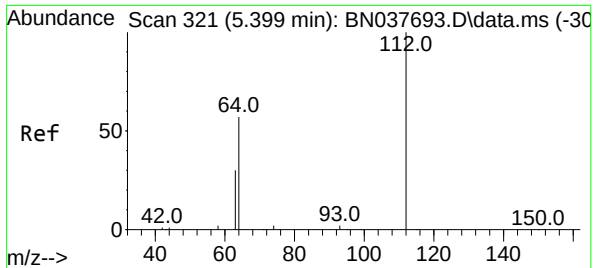
Tgt Ion:152 Resp: 5391
Ion Ratio Lower Upper
152 100
150 155.8 124.5 186.7
115 62.1 49.2 73.8



#2
1,4-Dioxane
Concen: 0.150 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037836.D
Acq: 20 Sep 2025 05:01

Tgt Ion: 88 Resp: 843
Ion Ratio Lower Upper
88 100
43 69.5 26.8 40.2#
58 77.1 61.9 92.9

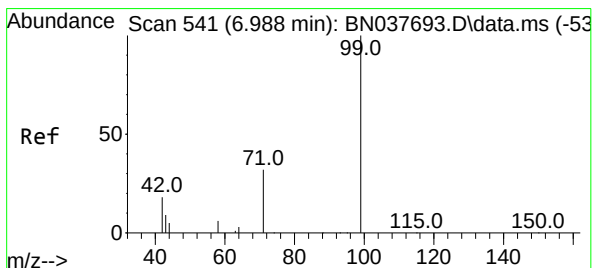
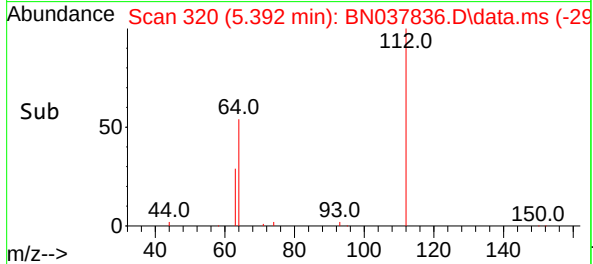
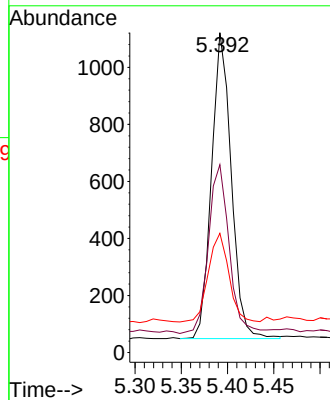
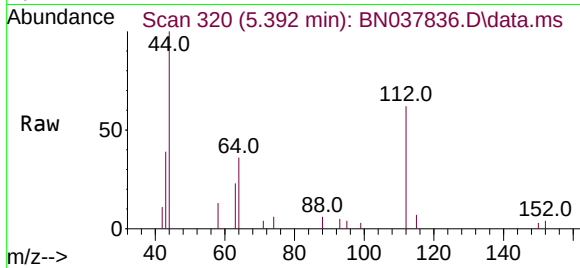




#4
2-Fluorophenol
Concen: 0.129 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037836.D
Acq: 20 Sep 2025 05:01

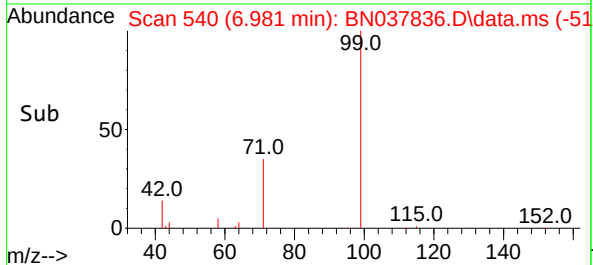
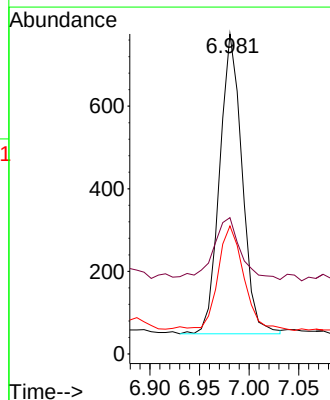
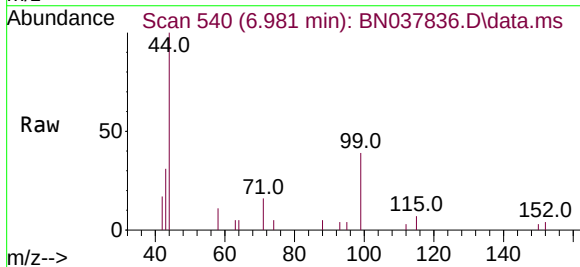
Instrument :
BNA_N
ClientSampleId :
RE135D2-20250915

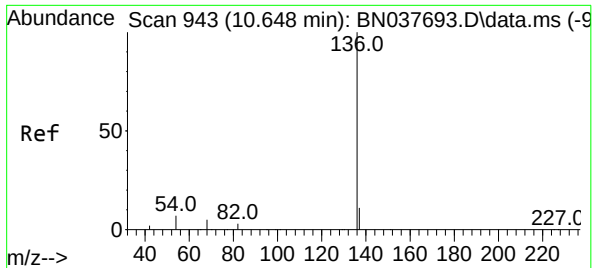
Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.9	44.9	67.3
63	30.9	24.7	37.1



#5
Phenol-d6
Concen: 0.071 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037836.D
Acq: 20 Sep 2025 05:01

Tgt Ion	Ratio	Lower	Upper
99	100		
42	25.0	16.6	24.8#
71	40.5	26.7	40.1#

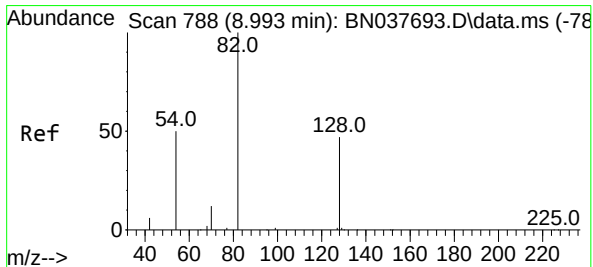
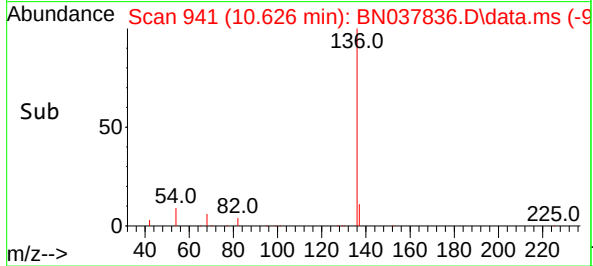
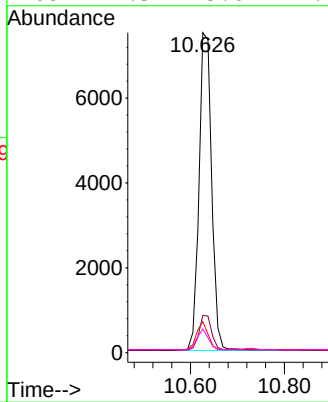
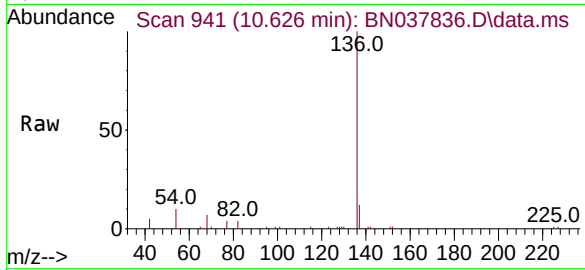




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. -0.021 min
Lab File: BN037836.D
Acq: 20 Sep 2025 05:01

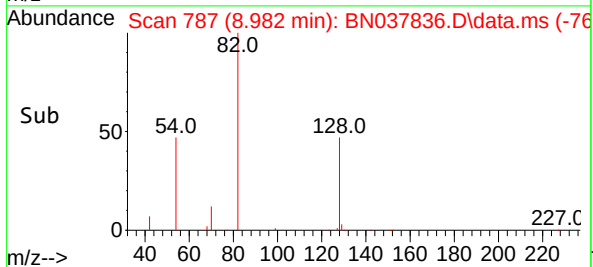
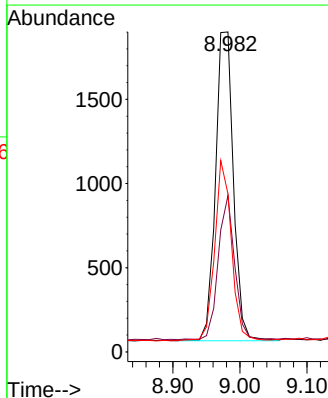
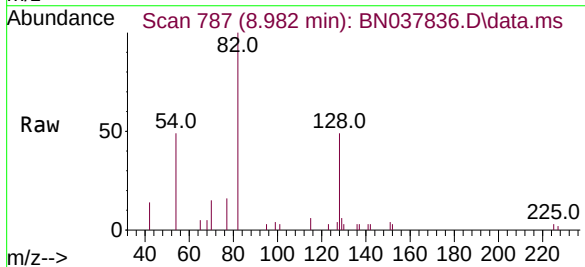
Instrument :
BNA_N
ClientSampleId :
RE135D2-20250915

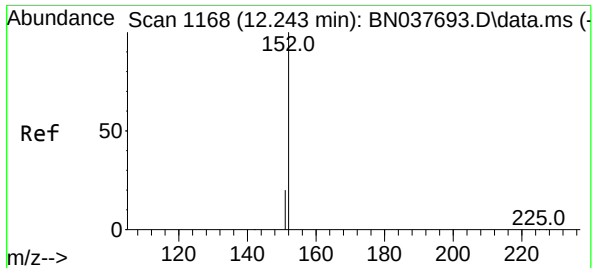
Tgt Ion:	136	Resp:	14016
Ion Ratio	Lower	Upper	
136	100		
137	11.6	9.1	13.7
54	9.7	6.3	9.5#
68	7.3	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.333 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037836.D
Acq: 20 Sep 2025 05:01

Tgt Ion:	82	Resp:	3414
Ion Ratio	Lower	Upper	
82	100		
128	48.8	38.3	57.5
54	49.4	41.4	62.2

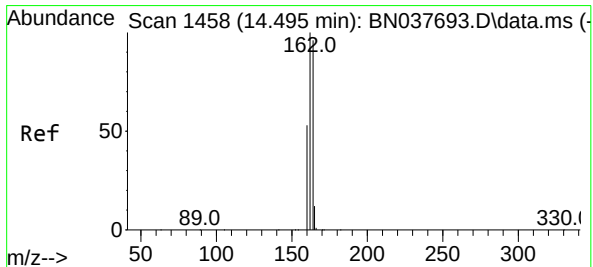
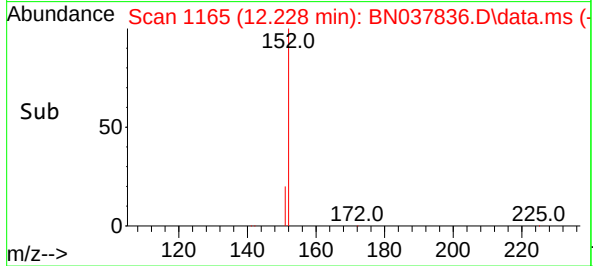
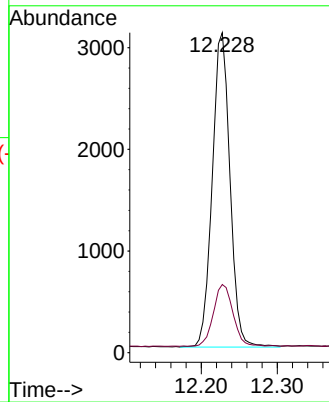
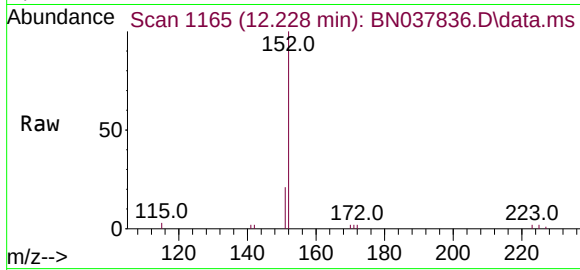




#11
2-Methylnaphthalene-d10
Concen: 0.270 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037836.D
Acq: 20 Sep 2025 05:01

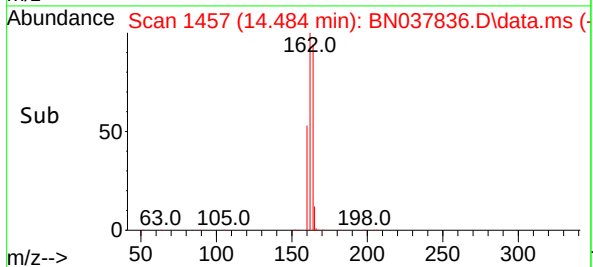
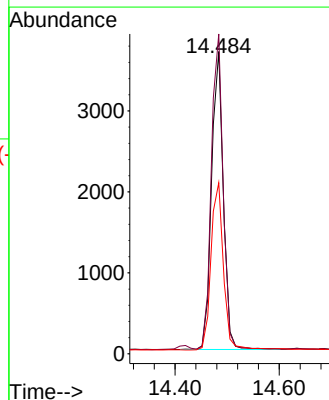
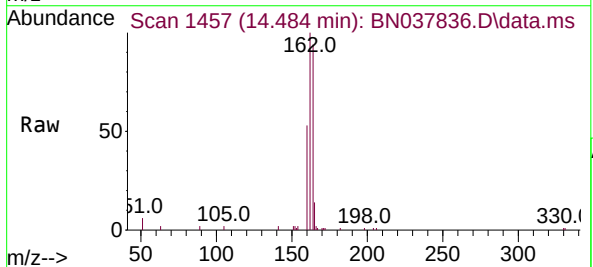
Instrument :
BNA_N
ClientSampleId :
RE135D2-20250915

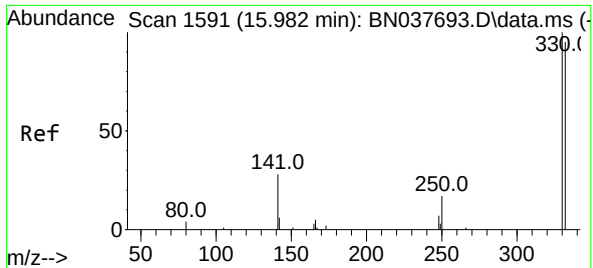
Tgt Ion:152 Resp: 5005
Ion Ratio Lower Upper
152 100
151 21.8 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037836.D
Acq: 20 Sep 2025 05:01

Tgt Ion:164 Resp: 5793
Ion Ratio Lower Upper
164 100
162 105.9 83.1 124.7
160 56.6 44.3 66.5

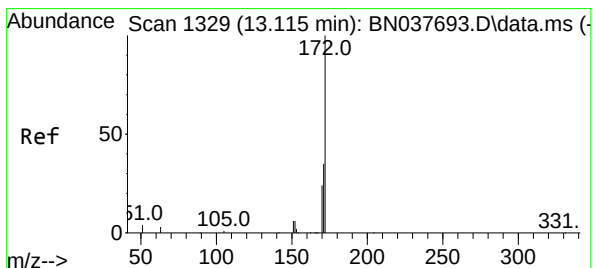
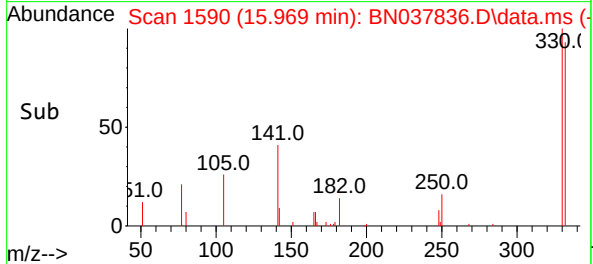
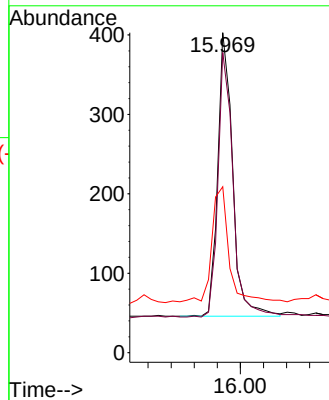
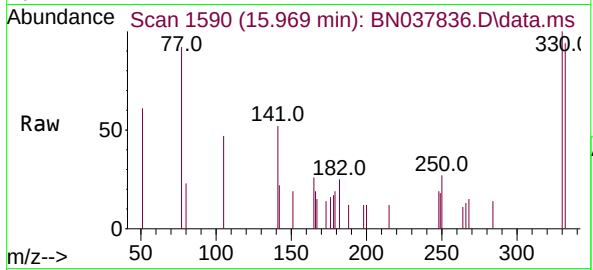




#14
2,4,6-Tribromophenol
Concen: 0.422 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037836.D
Acq: 20 Sep 2025 05:01

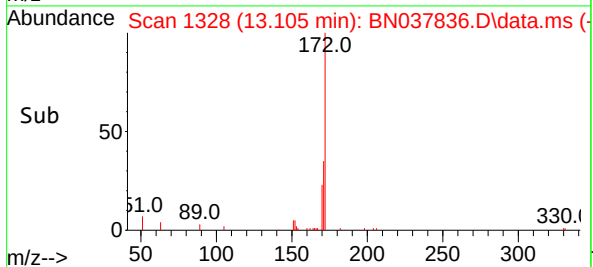
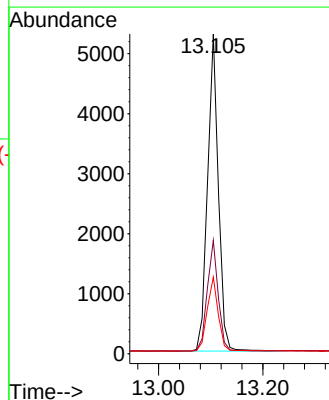
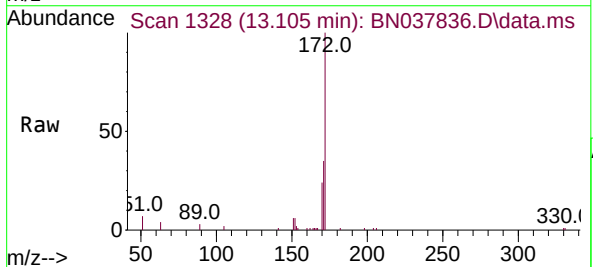
Instrument :
BNA_N
ClientSampleId :
RE135D2-20250915

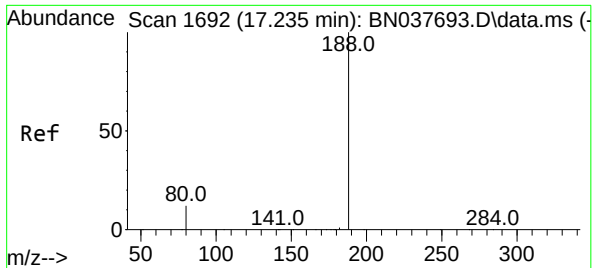
Tgt Ion	330	Ratio	100	Lower	Upper
330	100				
332	95.9		75.3	112.9	
141	49.0		35.0	52.4	



#15
2-Fluorobiphenyl
Concen: 0.315 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037836.D
Acq: 20 Sep 2025 05:01

Tgt Ion	172	Ratio	100	Lower	Upper
172	100				
171	35.5		28.6	43.0	
170	24.0		19.8	29.8	





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 10

Delta R.T. -0.012 min

Lab File: BN037836.D

Acq: 20 Sep 2025 05:01

Instrument :

BNA_N

ClientSampleId :

RE135D2-20250915

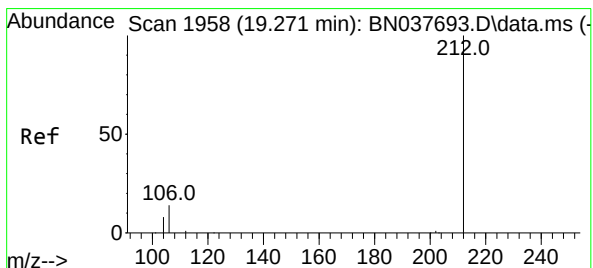
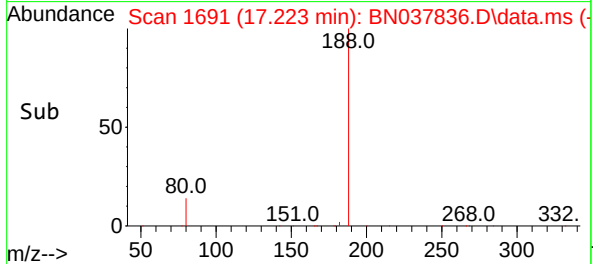
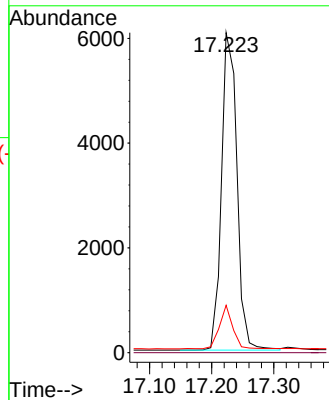
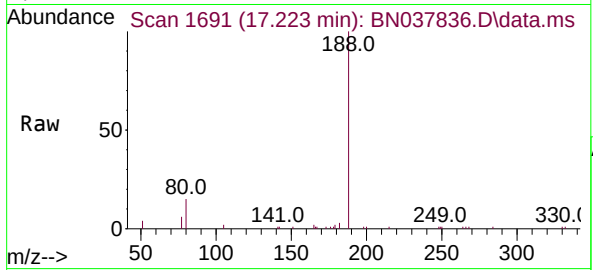
Tgt Ion:188 Resp: 10493

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.8 10.6 15.8



#27

Fluoranthene-d10

Concen: 0.374 ng

RT: 19.257 min Scan# 1955

Delta R.T. -0.014 min

Lab File: BN037836.D

Acq: 20 Sep 2025 05:01

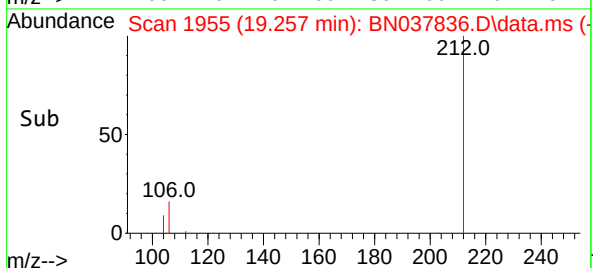
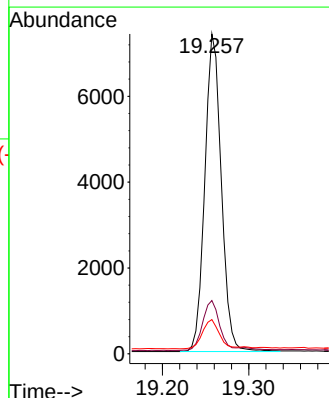
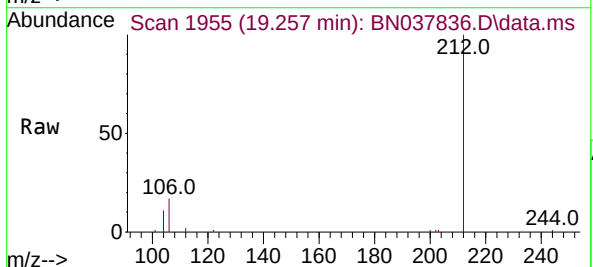
Tgt Ion:212 Resp: 9853

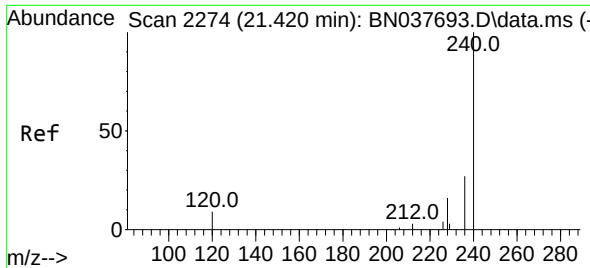
Ion Ratio Lower Upper

212 100

106 16.0 12.2 18.2

104 9.4 6.9 10.3

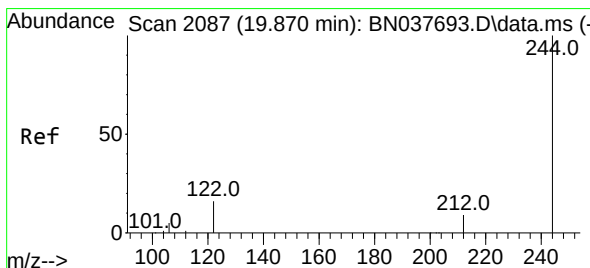
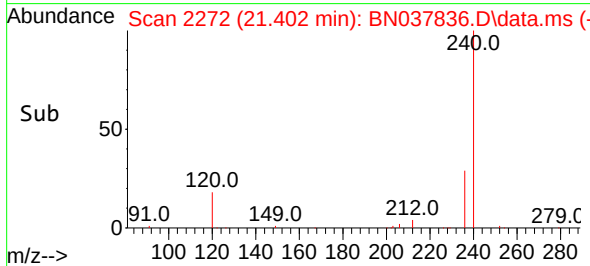
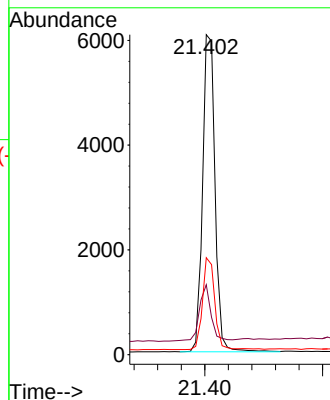
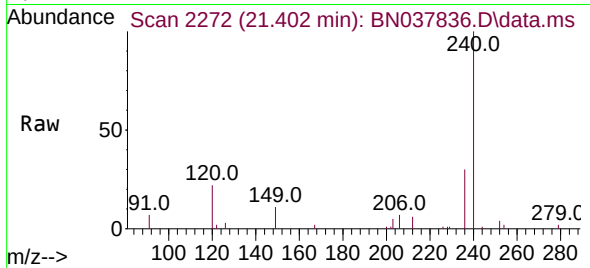




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037836.D
Acq: 20 Sep 2025 05:01

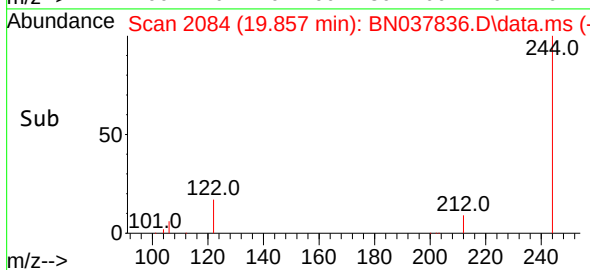
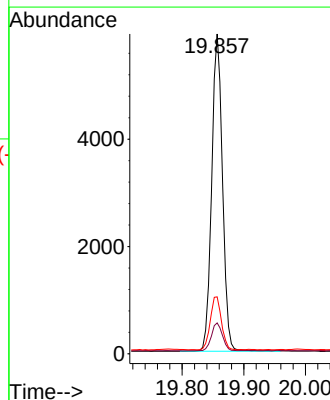
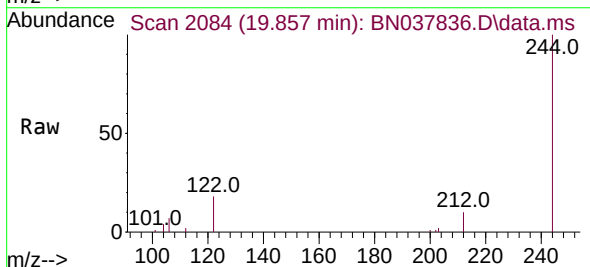
Instrument :
BNA_N
ClientSampleId :
RE135D2-20250915

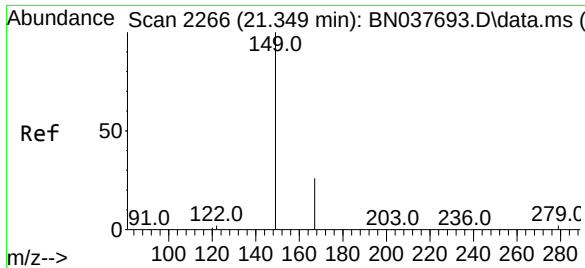
Tgt Ion:240 Resp: 8896
Ion Ratio Lower Upper
240 100
120 21.8 9.2 13.8#
236 30.3 22.6 33.8



#31
Terphenyl-d14
Concen: 0.400 ng
RT: 19.857 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037836.D
Acq: 20 Sep 2025 05:01

Tgt Ion:244 Resp: 7229
Ion Ratio Lower Upper
244 100
212 9.7 7.5 11.3
122 17.8 13.2 19.8

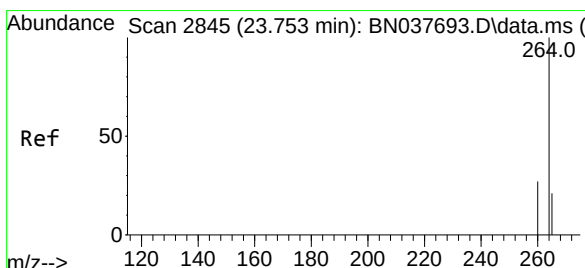
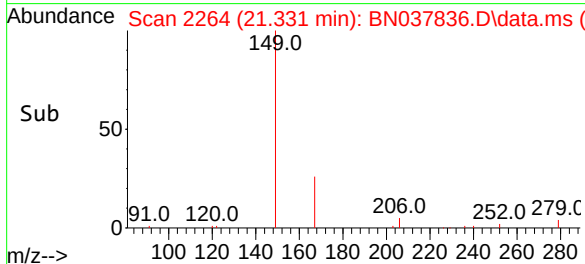
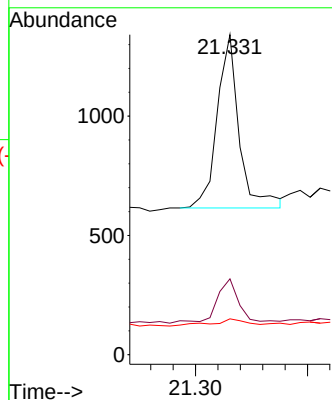
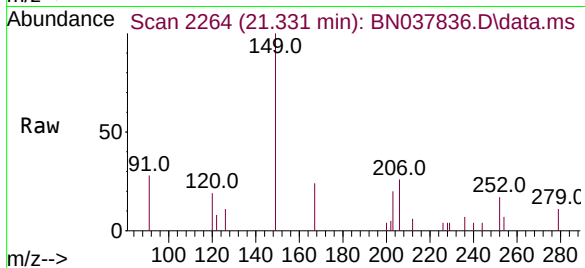




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.107 ng
RT: 21.331 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037836.D
Acq: 20 Sep 2025 05:01

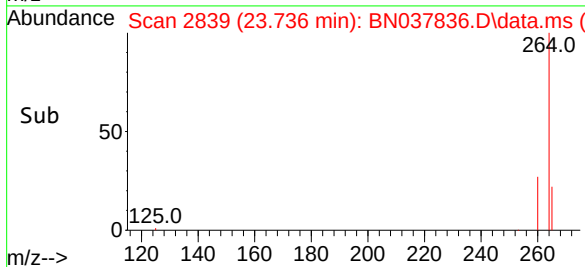
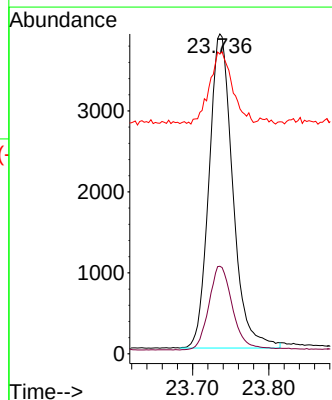
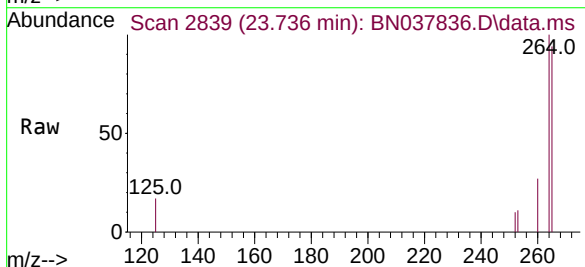
Instrument :
BNA_N
ClientSampleId :
RE135D2-20250915

Tgt Ion:149 Resp: 988
Ion Ratio Lower Upper
149 100
167 26.3 20.8 31.2
279 6.4 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 2839
Delta R.T. -0.017 min
Lab File: BN037836.D
Acq: 20 Sep 2025 05:01

Tgt Ion:264 Resp: 8424
Ion Ratio Lower Upper
264 100
260 27.4 21.8 32.8
265 93.7 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/16/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/17/25
Client Sample ID:	RE132D6-20250916	SDG No.:	Q3127
Lab Sample ID:	Q3127-08	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
BN037837.D	1	09/18/25 11:35	09/20/25 05:37	PB169743

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.50	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.24		30 - 150		61%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		77%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		53 - 106		68%	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	5840		7.826			
1146-65-2	Naphthalene-d8	15300		10.637			
15067-26-2	Acenaphthene-d10	6640		14.484			
1517-22-2	Phenanthrene-d10	12900		17.223			
1719-03-5	Chrysene-d12	11500		21.402			
1520-96-3	Perylene-d12	11000		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 : BN037837.D
Acq On : 20 Sep 2025 05:37
Operator : RC/JU
Sample : Q3127-08
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250916

Quant Time: Sep 22 00:35:34 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

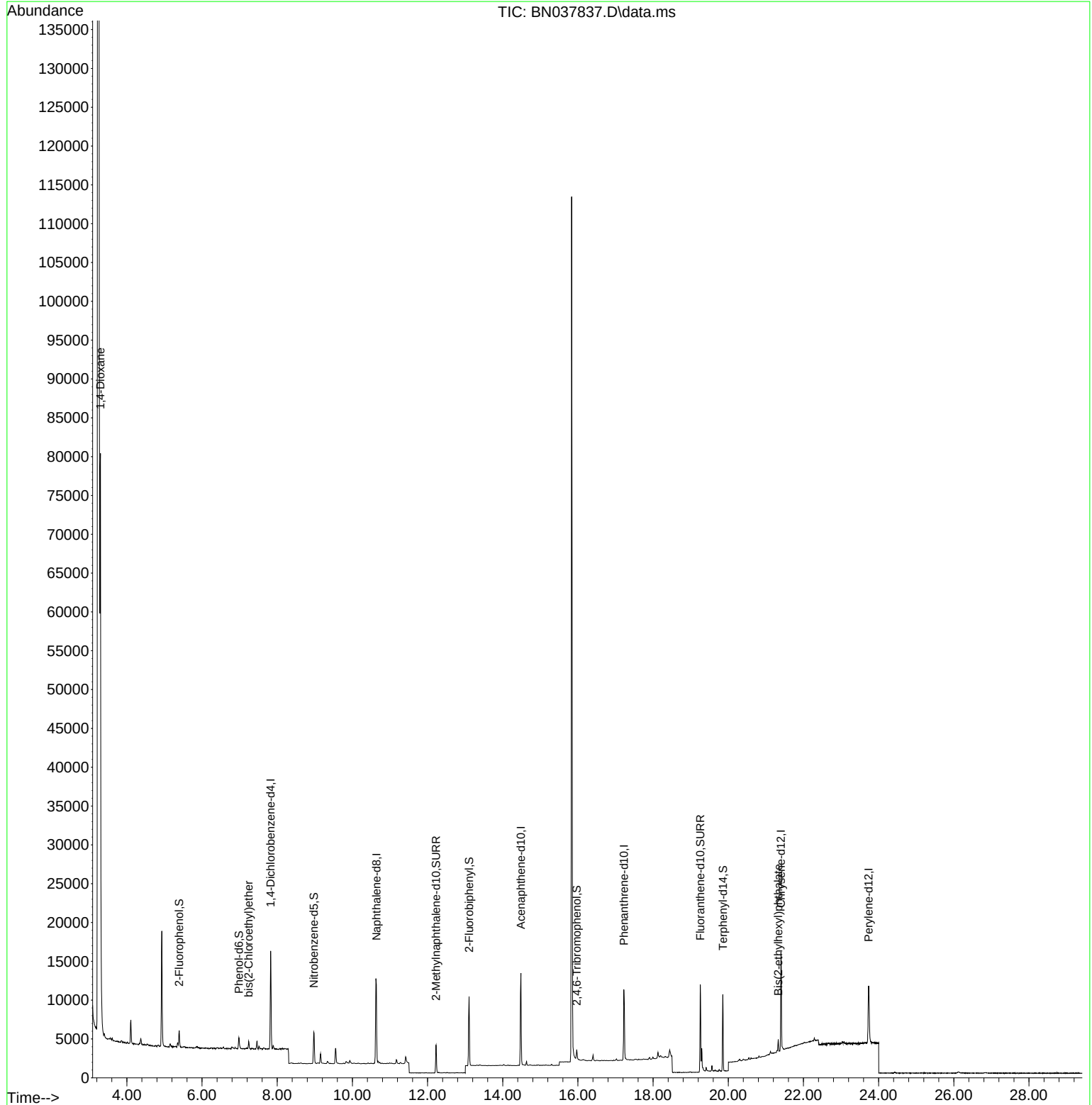
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.826	152	5840	0.400	ng	-0.01
7) Naphthalene-d8	10.637	136	15290	0.400	ng	#-0.01
13) Acenaphthene-d10	14.484	164	6642	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	12889	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	11537	0.400	ng	#-0.02
35) Perylene-d12	23.736	264	10995	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1694	0.126	ng	0.00
5) Phenol-d6	6.981	99	1292	0.074	ng	0.00
8) Nitrobenzene-d5	8.971	82	3446	0.308	ng	-0.02
11) 2-Methylnaphthalene-d10	12.228	152	4916	0.243	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	760	0.439	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	7511	0.270	ng	-0.01
27) Fluoranthene-d10	19.257	212	12217	0.378	ng	-0.01
31) Terphenyl-d14	19.857	244	9144	0.390	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	32669	5.371	ng	Qvalue 95
6) bis(2-Chloroethyl)ether	7.241	93	654	0.042	ng	96
34) Bis(2-ethylhexyl)phtha...	21.331	149	1707	0.143	ng	# 98

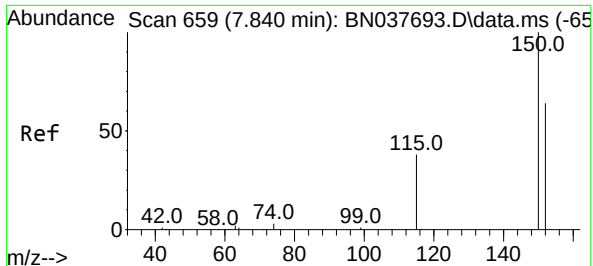
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037837.D
Acq On : 20 Sep 2025 05:37
Operator : RC/JU
Sample : Q3127-08
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250916

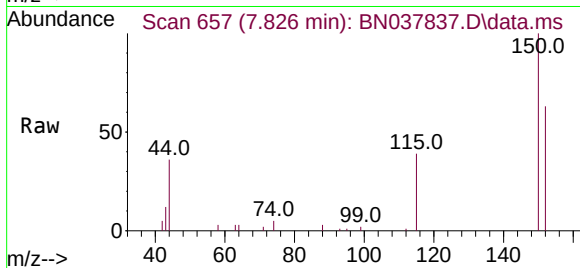
Quant Time: Sep 22 00:35:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



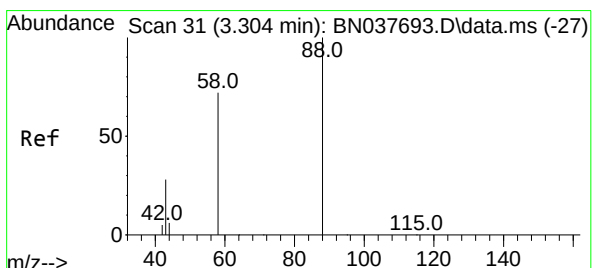
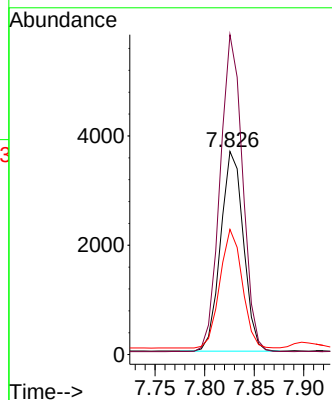
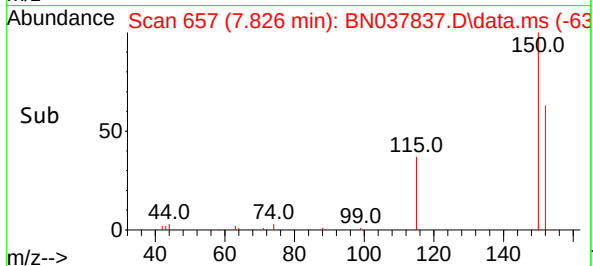


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 61
Delta R.T. -0.014 min
Lab File: BN037837.D
Acq: 20 Sep 2025 05:37

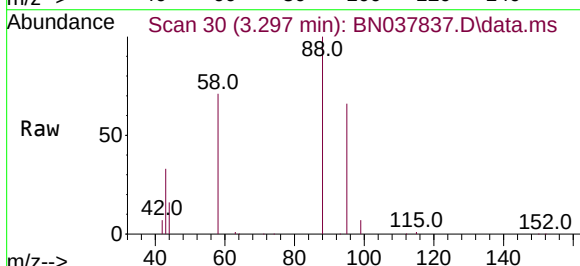
Instrument :
BNA_N
ClientSampleId :
RE132D6-20250916



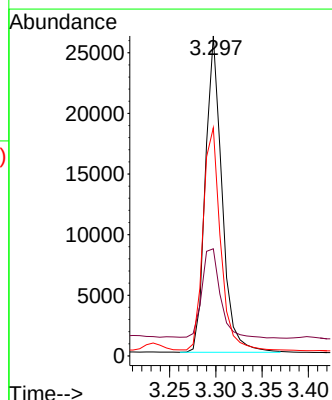
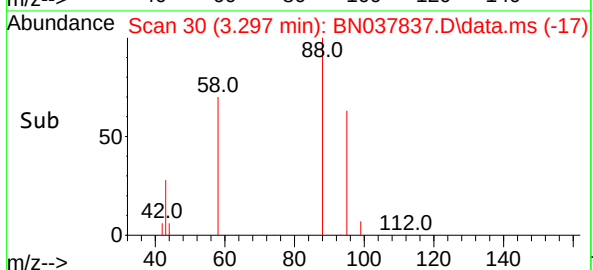
Tgt Ion:152 Resp: 5840
Ion Ratio Lower Upper
152 100
150 157.5 124.5 186.7
115 61.6 49.2 73.8

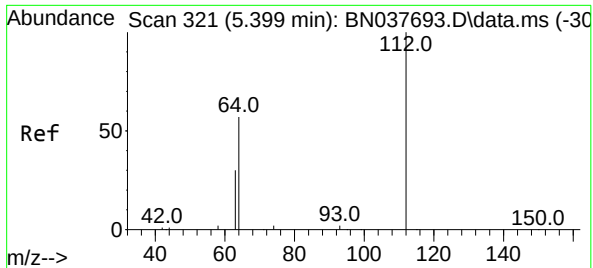


#2
1,4-Dioxane
Concen: 5.371 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037837.D
Acq: 20 Sep 2025 05:37



Tgt Ion: 88 Resp: 32669
Ion Ratio Lower Upper
88 100
43 31.4 26.8 40.2
58 73.1 61.9 92.9

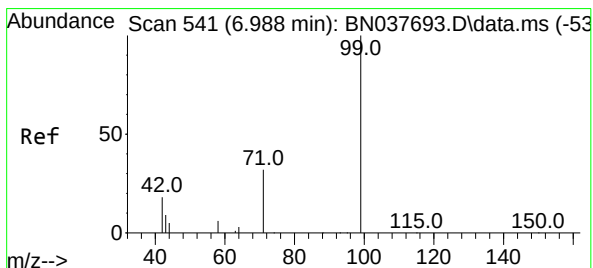
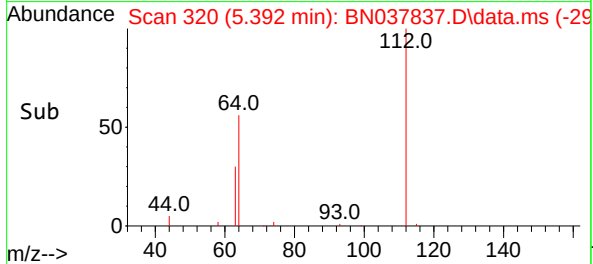
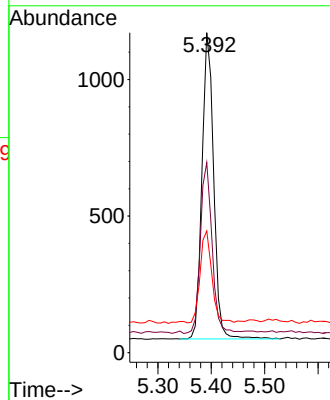
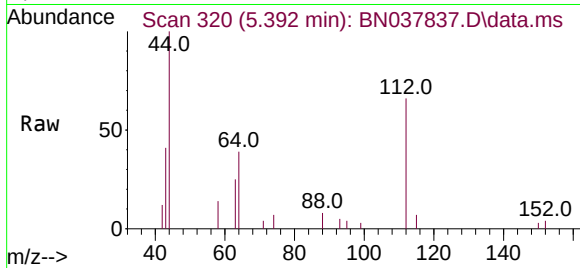




#4
2-Fluorophenol
Concen: 0.126 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037837.D
Acq: 20 Sep 2025 05:37

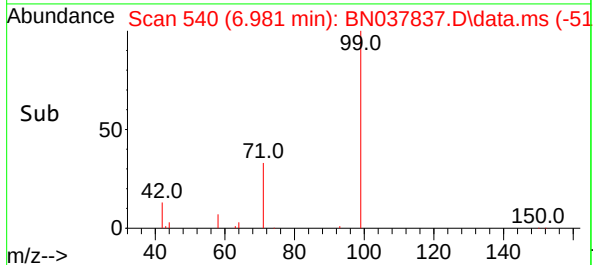
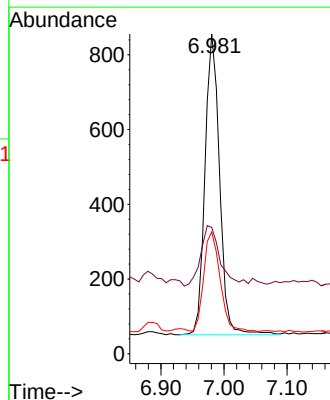
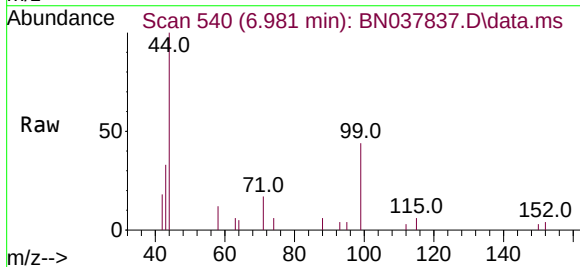
Instrument :
BNA_N
ClientSampleId :
RE132D6-20250916

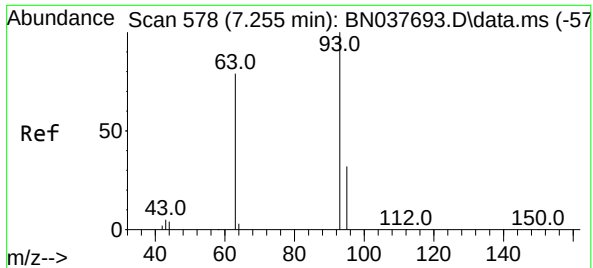
Tgt Ion:112 Resp: 1694
Ion Ratio Lower Upper
112 100
64 56.2 44.9 67.3
63 30.1 24.7 37.1



#5
Phenol-d6
Concen: 0.074 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037837.D
Acq: 20 Sep 2025 05:37

Tgt Ion: 99 Resp: 1292
Ion Ratio Lower Upper
99 100
42 26.0 16.6 24.8#
71 36.8 26.7 40.1

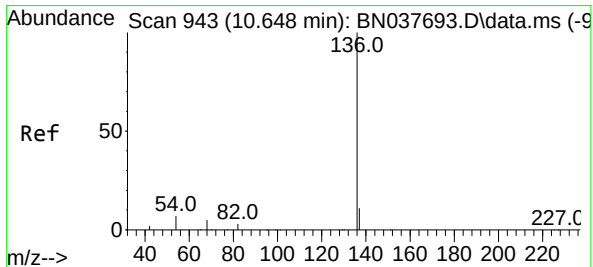
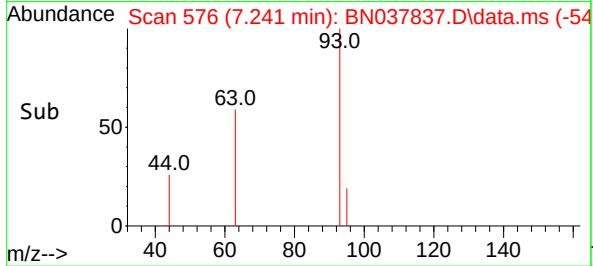
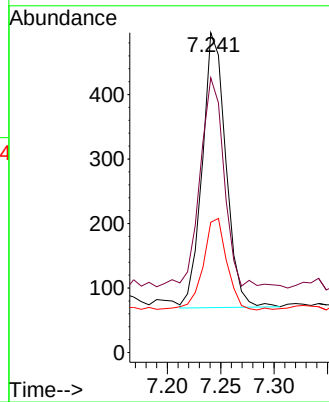
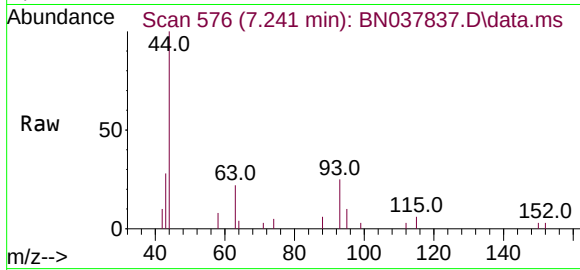




#6
bis(2-Chloroethyl)ether
Concen: 0.042 ng
RT: 7.241 min Scan# 51
Delta R.T. -0.014 min
Lab File: BN037837.D
Acq: 20 Sep 2025 05:37

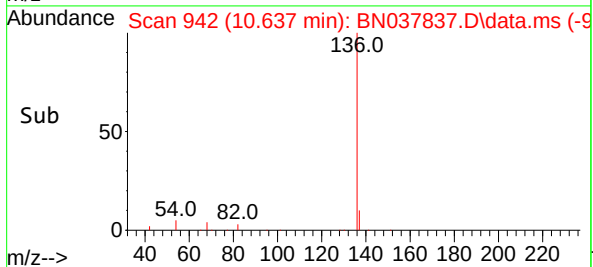
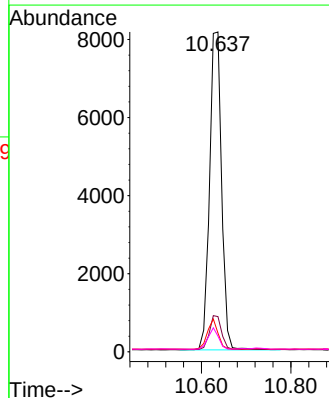
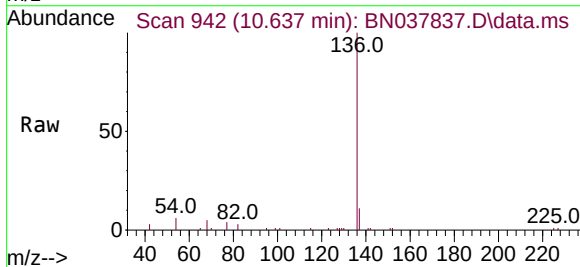
Instrument :
BNA_N
ClientSampleId :
RE132D6-20250916

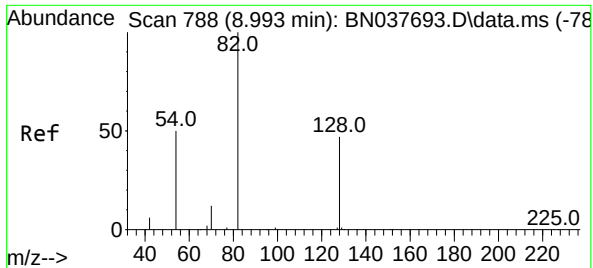
Tgt Ion:	93	Resp:	654
Ion	Ratio	Lower	Upper
93	100		
63	79.7	60.6	90.8
95	33.8	26.0	39.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN037837.D
Acq: 20 Sep 2025 05:37

Tgt Ion:	136	Resp:	15290
Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.1	13.7
54	5.9	6.3	9.5#
68	4.9	5.0	7.4#

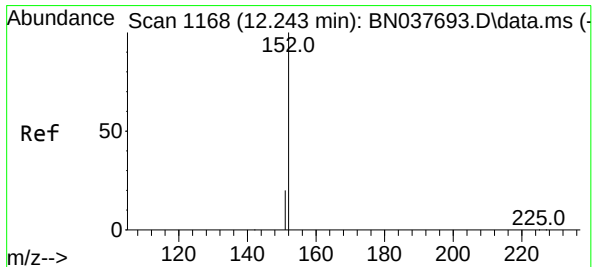
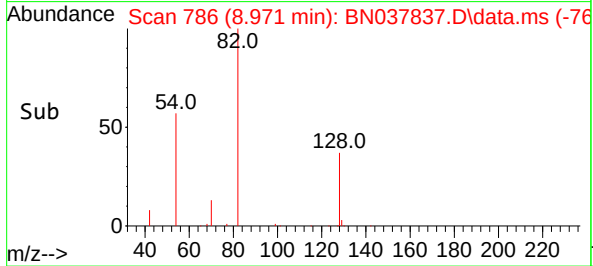
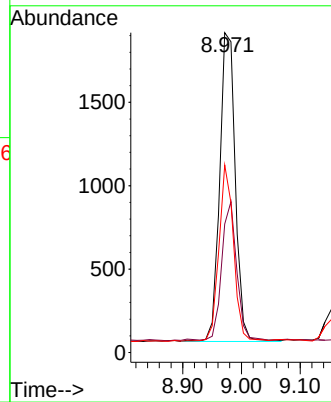
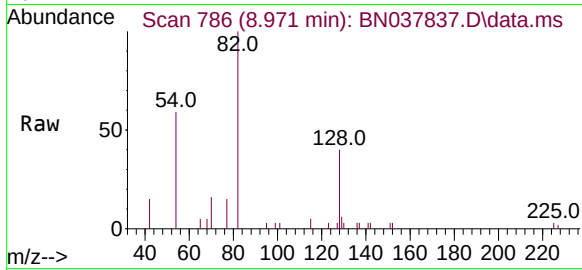




#8
Nitrobenzene-d5
Concen: 0.308 ng
RT: 8.971 min Scan# 788
Delta R.T. -0.021 min
Lab File: BN037837.D
Acq: 20 Sep 2025 05:37

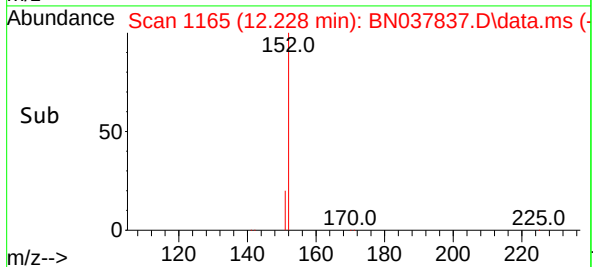
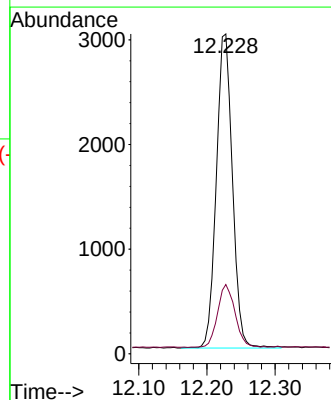
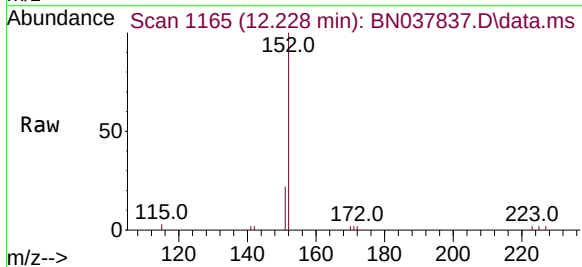
Instrument :
BNA_N
ClientSampleId :
RE132D6-20250916

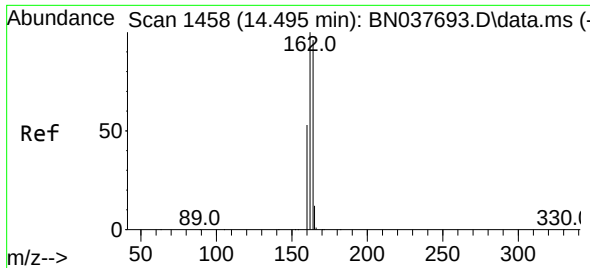
Tgt Ion: 82 Resp: 3446
Ion Ratio Lower Upper
82 100
128 40.1 38.3 57.5
54 58.6 41.4 62.2



#11
2-Methylnaphthalene-d10
Concen: 0.243 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037837.D
Acq: 20 Sep 2025 05:37

Tgt Ion: 152 Resp: 4916
Ion Ratio Lower Upper
152 100
151 22.0 17.0 25.6

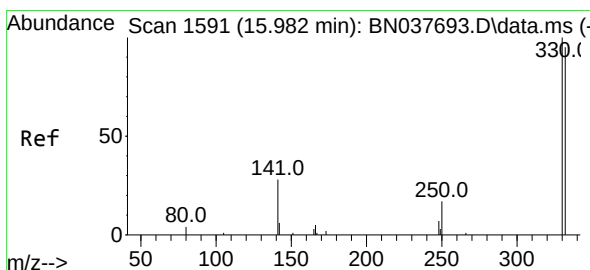
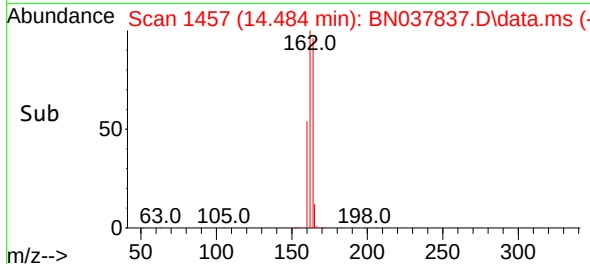
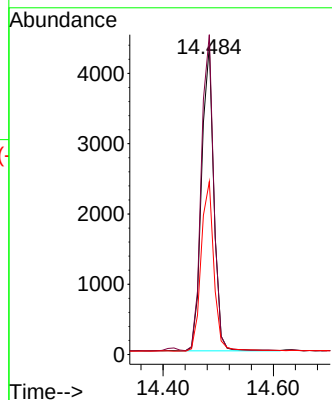
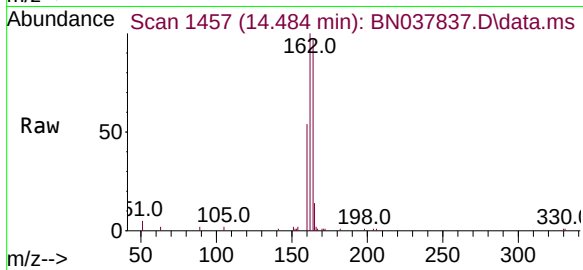




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037837.D
Acq: 20 Sep 2025 05:37

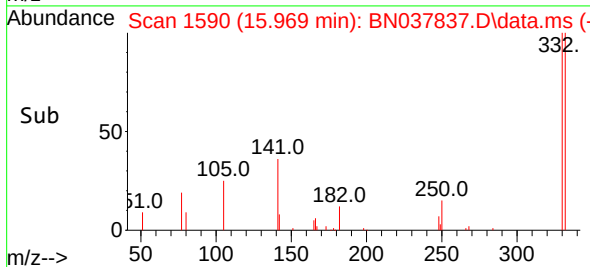
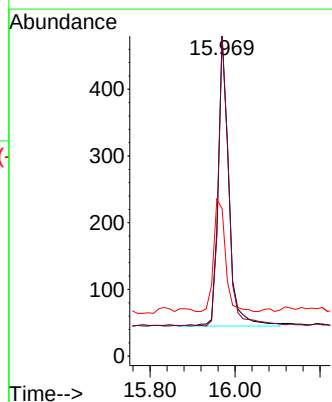
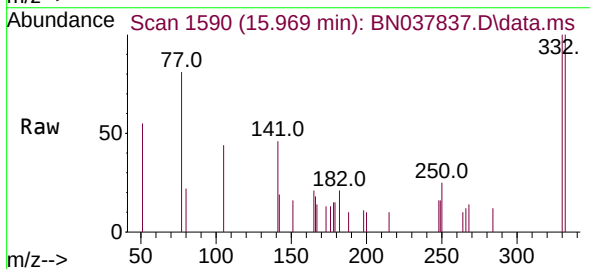
Instrument :
BNA_N
ClientSampleId :
RE132D6-20250916

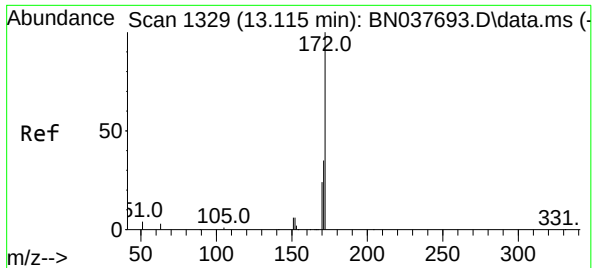
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.6	83.1	124.7
160	55.9	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.439 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037837.D
Acq: 20 Sep 2025 05:37

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.5	75.3	112.9
141	43.7	35.0	52.4

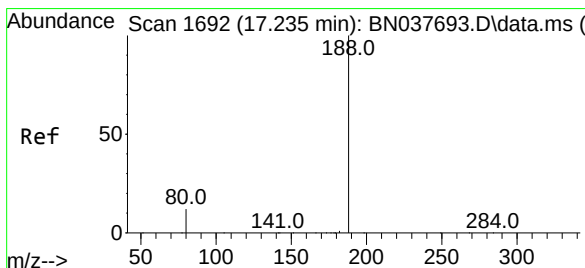
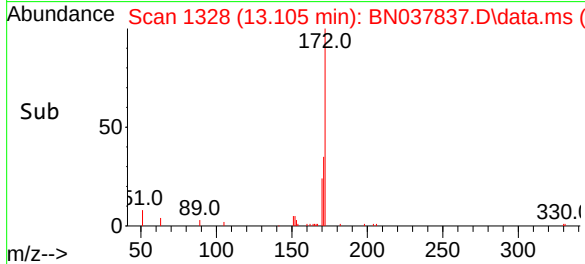
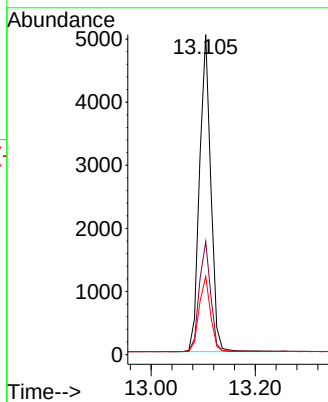
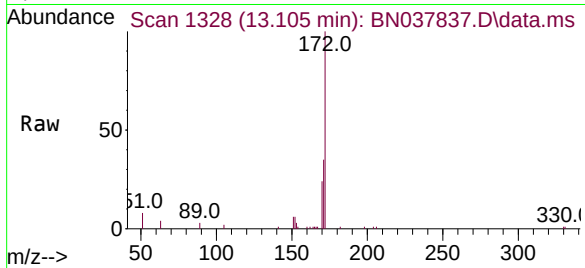




#15
2-Fluorobiphenyl
Concen: 0.270 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037837.D
Acq: 20 Sep 2025 05:37

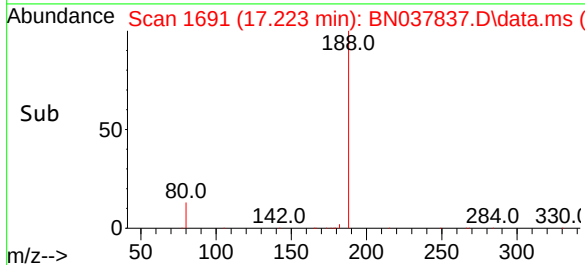
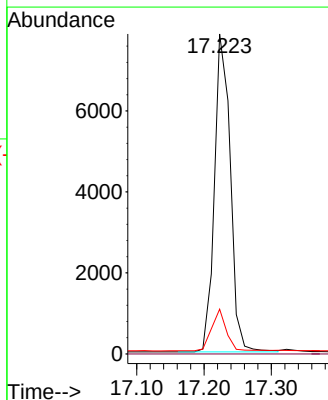
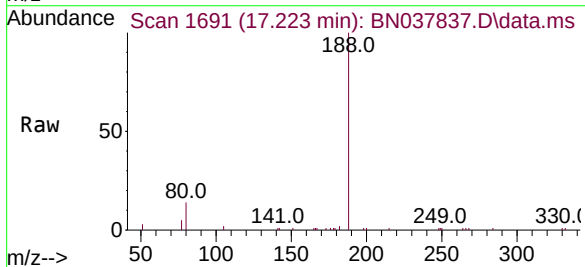
Instrument :
BNA_N
ClientSampleId :
RE132D6-20250916

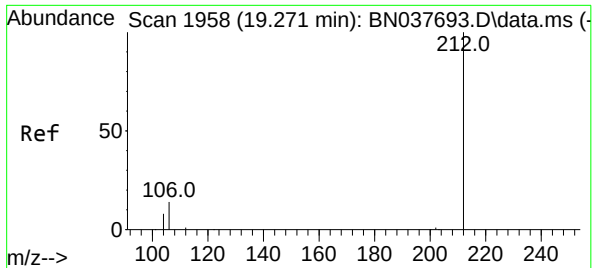
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.6	43.0
170	24.5	19.8	29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.012 min
Lab File: BN037837.D
Acq: 20 Sep 2025 05:37

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.0	10.6	15.8





#27

Fluoranthene-d10

Concen: 0.378 ng

RT: 19.257 min Scan# 1955

Delta R.T. -0.014 min

Lab File: BN037837.D

Acq: 20 Sep 2025 05:37

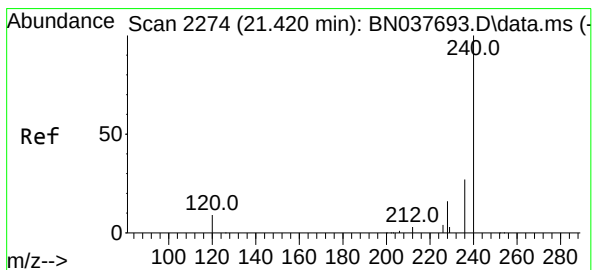
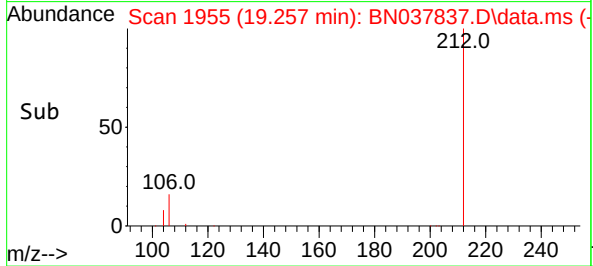
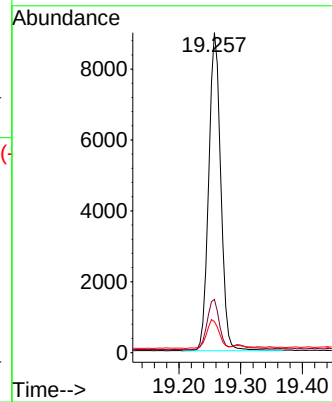
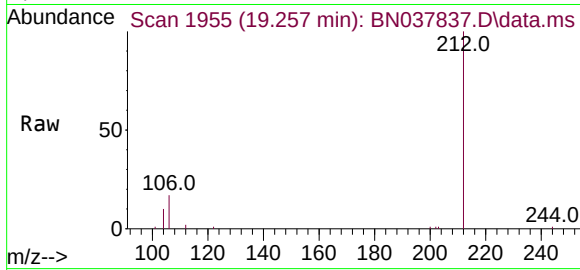
Instrument :

BNA_N

ClientSampleId :

RE132D6-20250916

Tgt Ion:	212	Resp:	12217
Ion Ratio	Lower	Upper	
212	100		
106	15.9	12.2	18.2
104	9.4	6.9	10.3



#29

Chrysene-d12

Concen: 0.400 ng

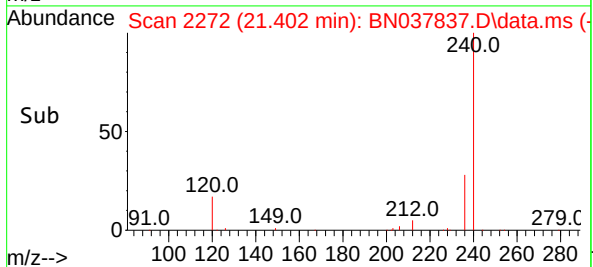
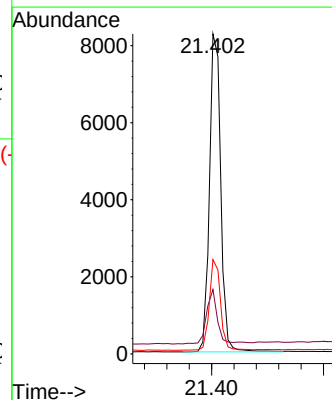
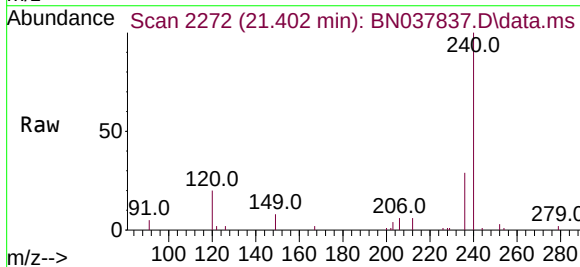
RT: 21.402 min Scan# 2272

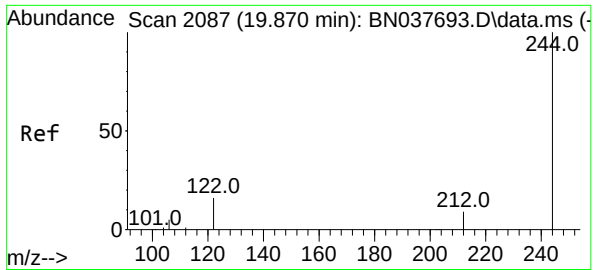
Delta R.T. -0.018 min

Lab File: BN037837.D

Acq: 20 Sep 2025 05:37

Tgt Ion:	240	Resp:	11537
Ion Ratio	Lower	Upper	
240	100		
120	20.1	9.2	13.8#
236	29.5	22.6	33.8

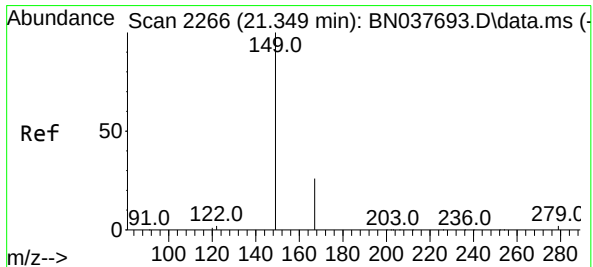
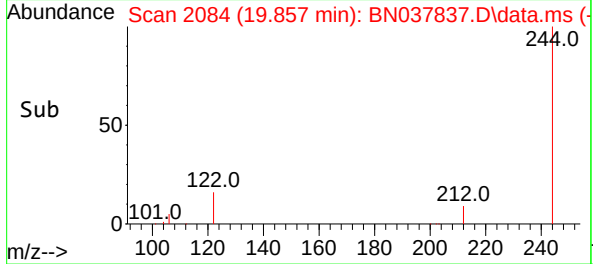
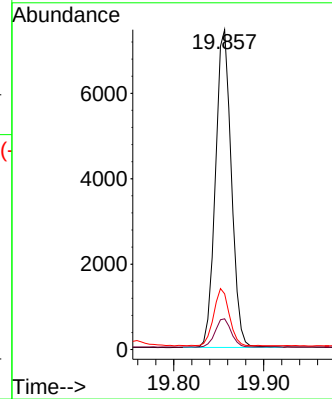
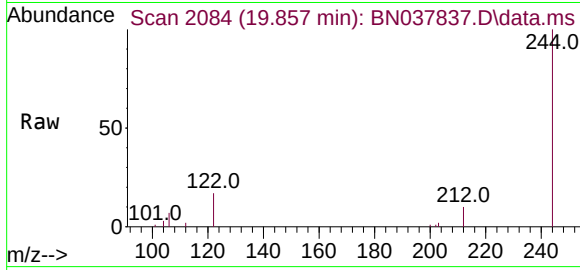




#31
Terphenyl-d14
Concen: 0.390 ng
RT: 19.857 min Scan# 2087
Delta R.T. -0.014 min
Lab File: BN037837.D
Acq: 20 Sep 2025 05:37

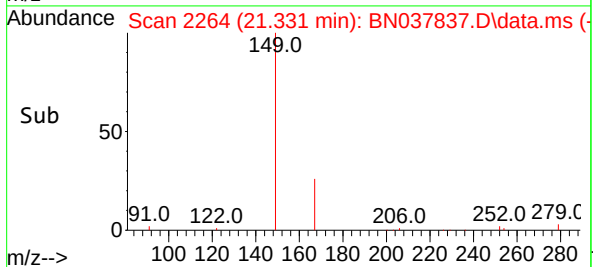
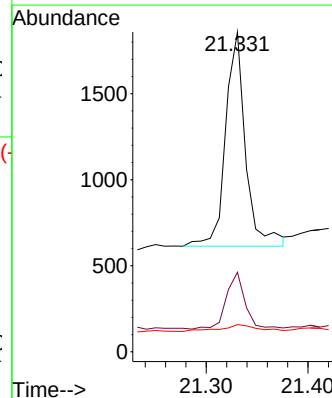
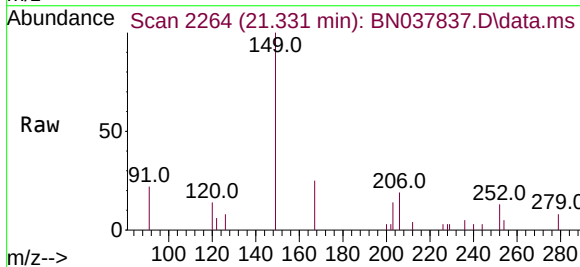
Instrument :
BNA_N
ClientSampleId :
RE132D6-20250916

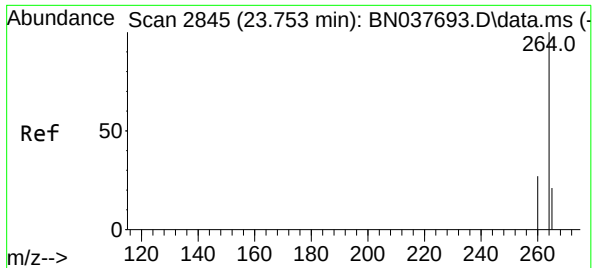
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.5	11.3
122	17.4	13.2	19.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.143 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037837.D
Acq: 20 Sep 2025 05:37

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.1	20.8	31.2
279	6.0	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: BN037837.D

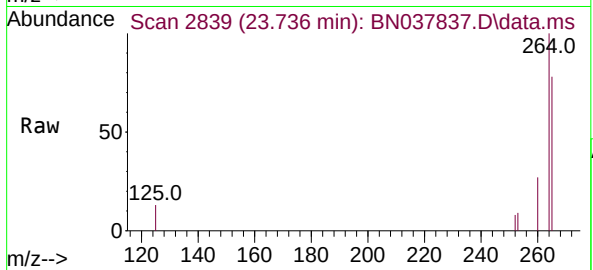
Acq: 20 Sep 2025 05:37

Instrument :

BNA_N

ClientSampleId :

RE132D6-20250916



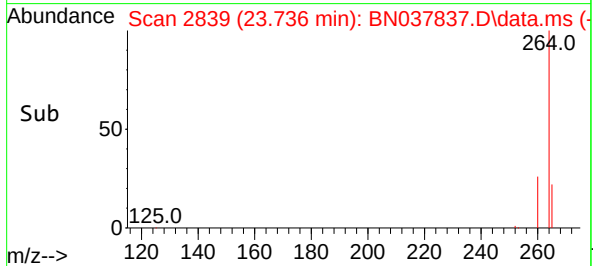
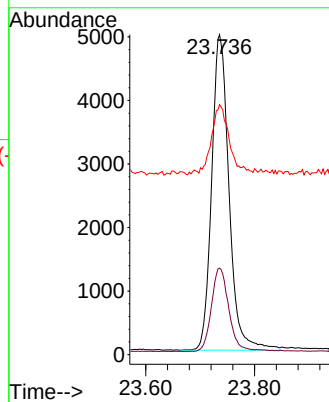
Tgt Ion:264 Resp: 10995

Ion Ratio Lower Upper

264 100

260 27.0 21.8 32.8

265 78.1 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	09/16/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/17/25
Client Sample ID:	RE132D6-20250916DL		SDG No.:	Q3127
Lab Sample ID:	Q3127-08DL		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
BN037856.D	2	09/18/25 11:35	09/22/25 14:33	PB169743

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.70	D	0.13	0.41	0.41	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.25		30 - 150		62%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		97%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.29		53 - 106		72%	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	5460		7.825			
1146-65-2	Naphthalene-d8	14200		10.626			
15067-26-2	Acenaphthene-d10	5840		14.484			
1517-22-2	Phenanthrene-d10	11000		17.223			
1719-03-5	Chrysene-d12	9610		21.402			
1520-96-3	Perylene-d12	9070		23.733			

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\BN092225\
Data File : BN037856.D
Acq On : 22 Sep 2025 14:33
Operator : RC/JU
Sample : Q3127-08DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250916DL

Quant Time: Sep 22 15:02:34 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

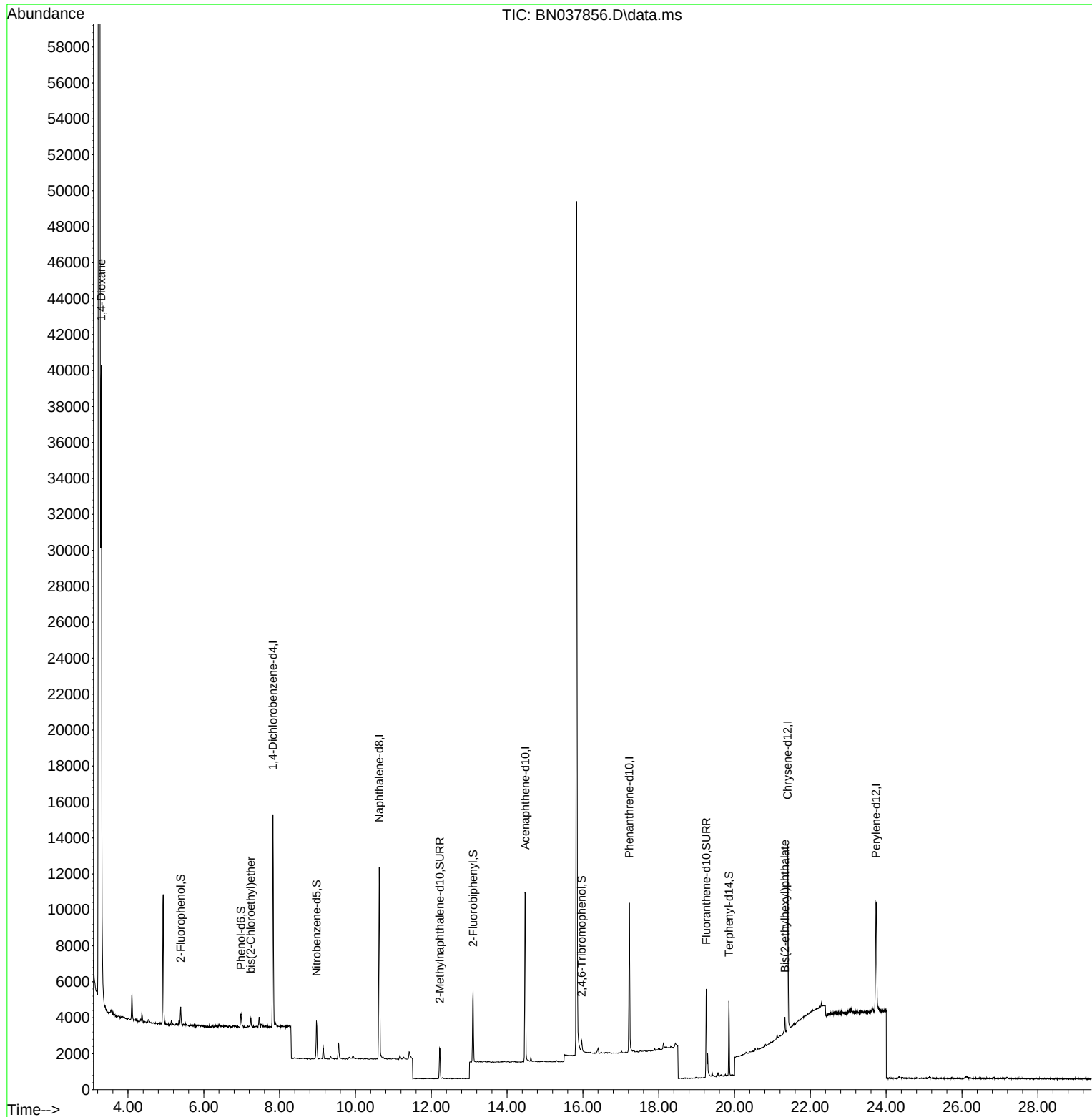
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5456	0.400	ng	-0.01
7) Naphthalene-d8	10.626	136	14189	0.400	ng	-0.02
13) Acenaphthene-d10	14.484	164	5837	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	11015	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	9607	0.400	ng	#-0.02
35) Perylene-d12	23.733	264	9066	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.391	112	832	0.066	ng	0.00
5) Phenol-d6	6.980	99	647	0.040	ng	0.00
8) Nitrobenzene-d5	8.971	82	1721	0.166	ng	-0.02
11) 2-Methylnaphthalene-d10	12.222	152	2335	0.124	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	352	0.231	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	3548	0.145	ng	-0.01
27) Fluoranthene-d10	19.257	212	5352	0.194	ng	-0.01
31) Terphenyl-d14	19.852	244	3913	0.201	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.297	88	15763	2.774	ng	97
6) bis(2-Chloroethyl)ether	7.240	93	318	0.022	ng	88
34) Bis(2-ethylhexyl)phtha...	21.331	149	920	0.093	ng	# 99

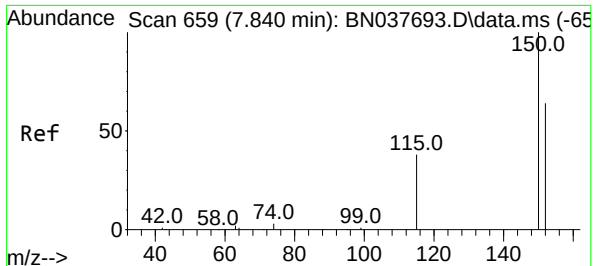
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037856.D
Acq On : 22 Sep 2025 14:33
Operator : RC/JU
Sample : Q3127-08DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250916DL

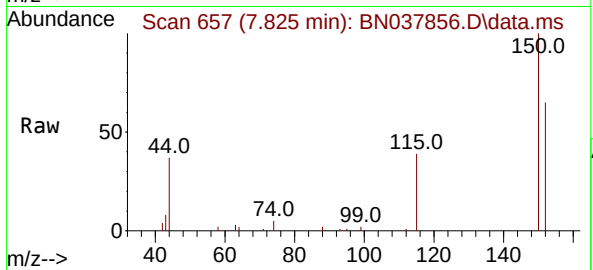
Quant Time: Sep 22 15:02:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



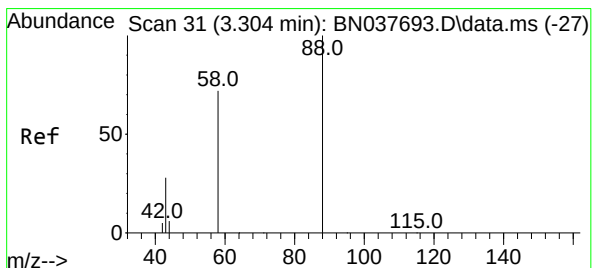
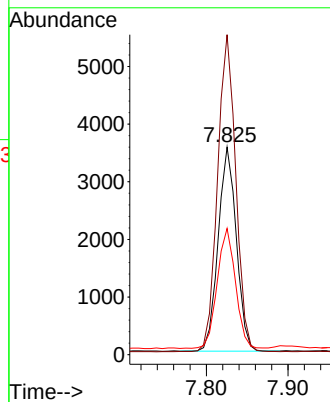
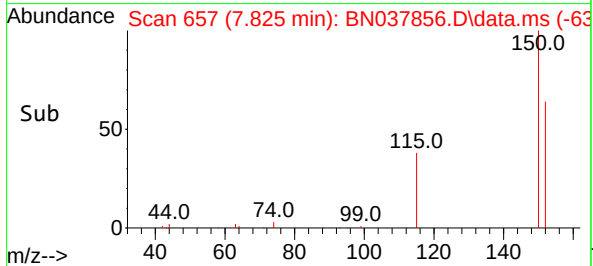


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN037856.D
Acq: 22 Sep 2025 14:33

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250916DL

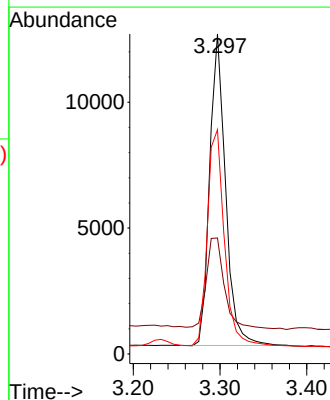
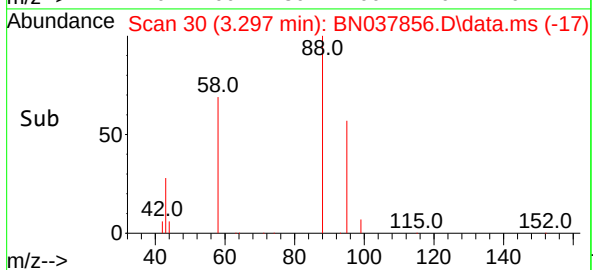
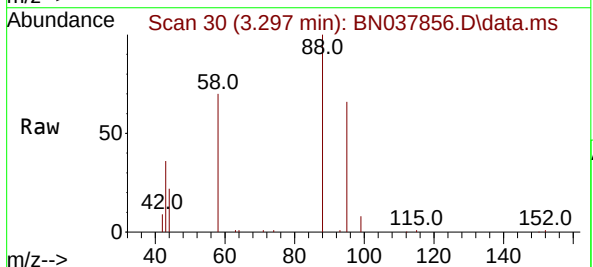


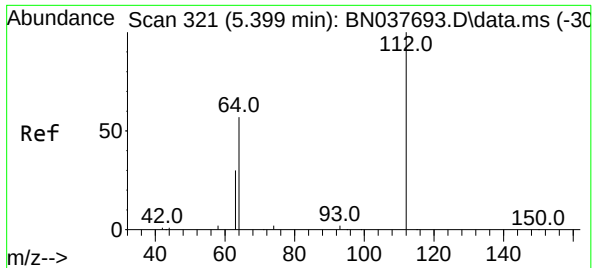
Tgt Ion:152 Resp: 5456
Ion Ratio Lower Upper
152 100
150 154.2 124.5 186.7
115 60.9 49.2 73.8



#2
1,4-Dioxane
Concen: 2.774 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037856.D
Acq: 22 Sep 2025 14:33

Tgt Ion: 88 Resp: 15763
Ion Ratio Lower Upper
88 100
43 32.9 26.8 40.2
58 73.9 61.9 92.9

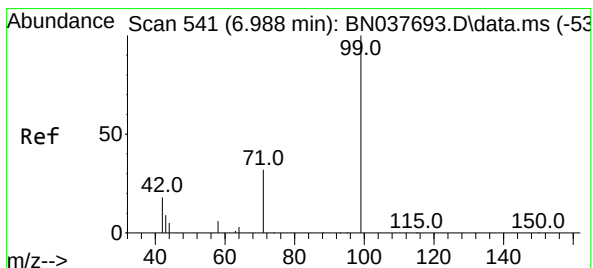
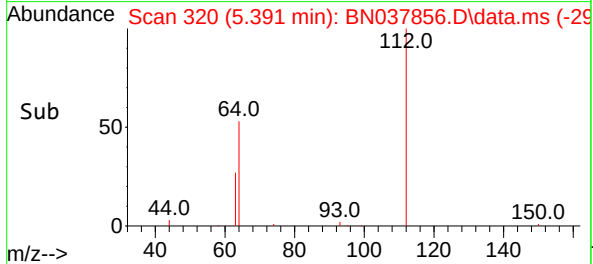
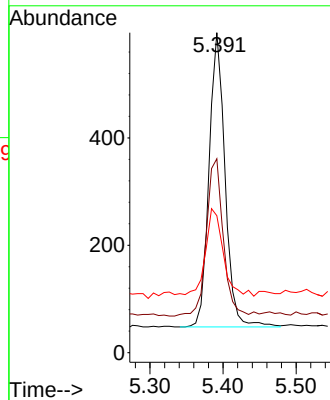
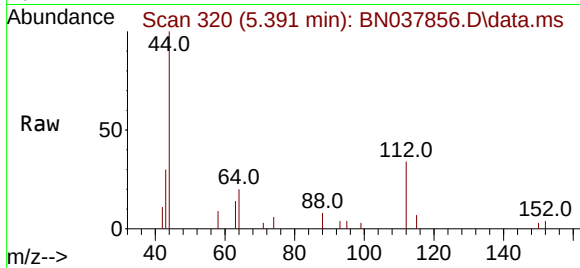




#4
2-Fluorophenol
Concen: 0.066 ng
RT: 5.391 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037856.D
Acq: 22 Sep 2025 14:33

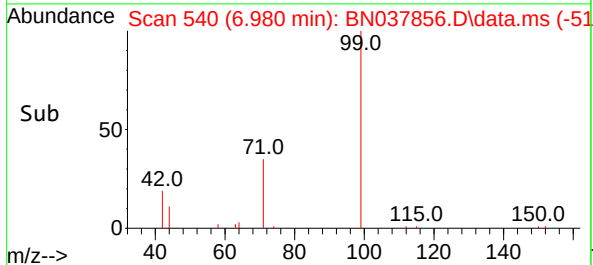
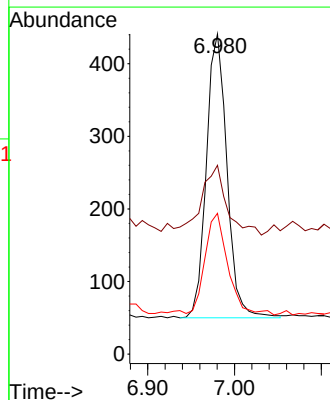
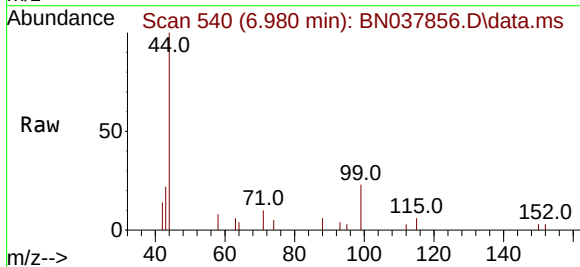
Instrument :
BNA_N
ClientSampleId :
RE132D6-20250916DL

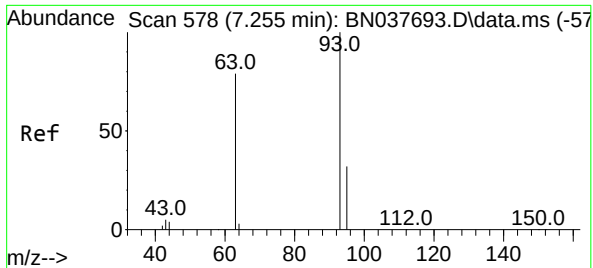
Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.3	44.9	67.3
63	33.8	24.7	37.1



#5
Phenol-d6
Concen: 0.040 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037856.D
Acq: 22 Sep 2025 14:33

Tgt Ion	Ratio	Lower	Upper
99	100		
42	32.3	16.6	24.8#
71	41.1	26.7	40.1#

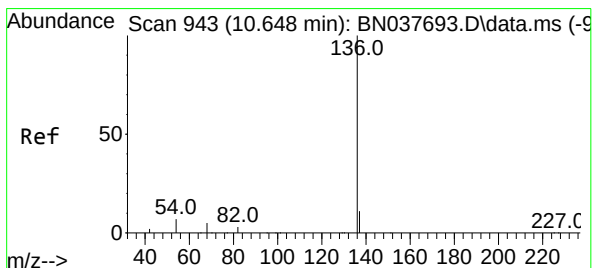
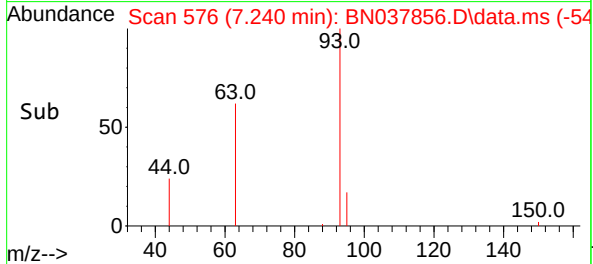
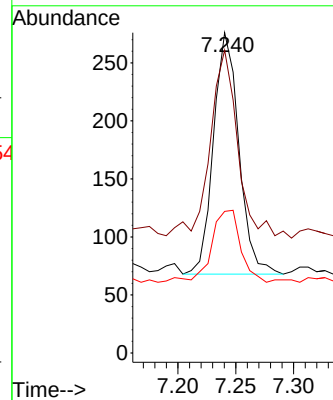
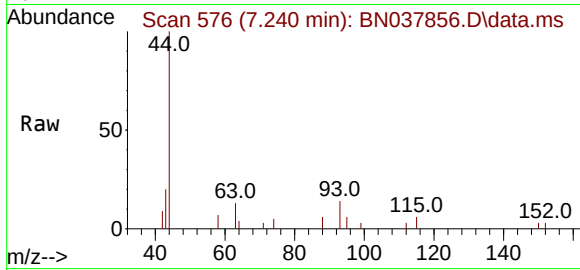




#6
bis(2-Chloroethyl)ether
Concen: 0.022 ng
RT: 7.240 min Scan# 51
Delta R.T. -0.015 min
Lab File: BN037856.D
Acq: 22 Sep 2025 14:33

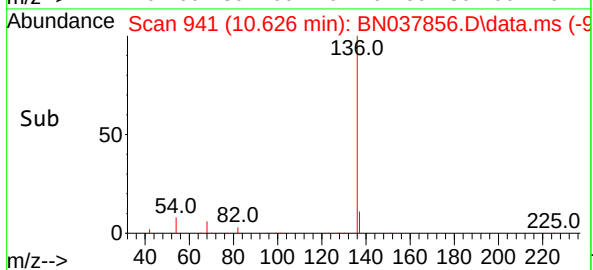
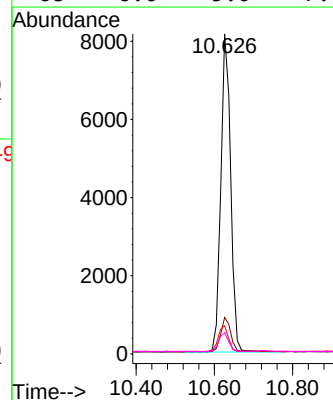
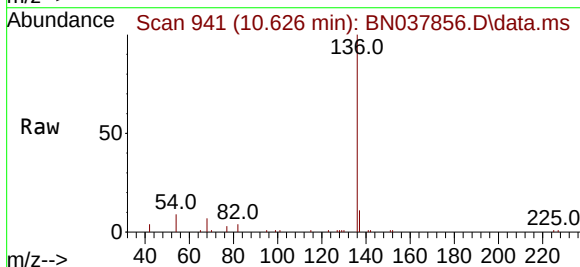
Instrument :
BNA_N
ClientSampleId :
RE132D6-20250916DL

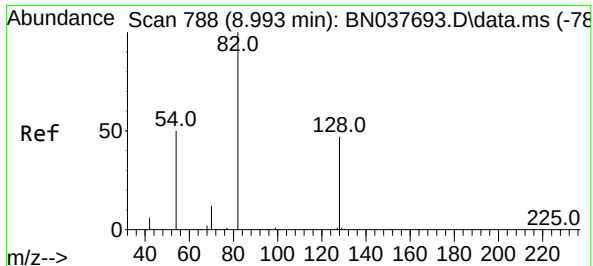
Tgt Ion:	93	Resp:	318
Ion	Ratio	Lower	Upper
93	100		
63	87.7	60.6	90.8
95	36.5	26.0	39.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.022 min
Lab File: BN037856.D
Acq: 22 Sep 2025 14:33

Tgt Ion:	136	Resp:	14189
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	8.8	6.3	9.5
68	6.6	5.0	7.4

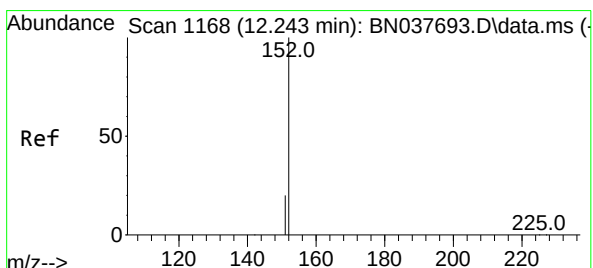
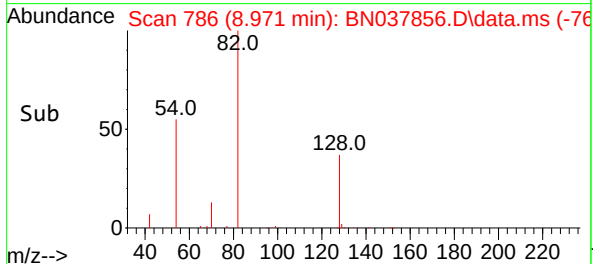
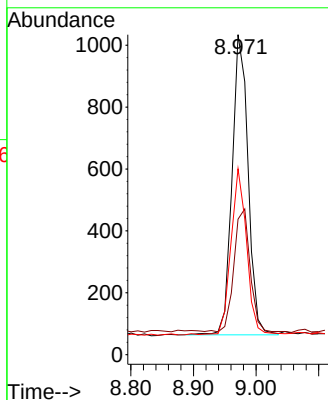
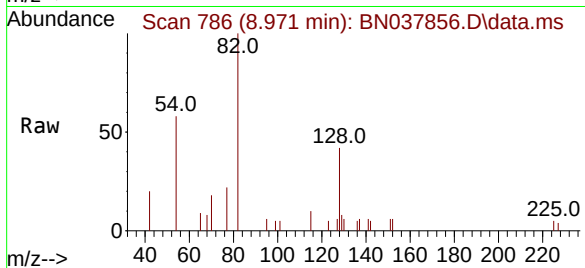




#8
Nitrobenzene-d5
Concen: 0.166 ng
RT: 8.971 min Scan# 71
Delta R.T. -0.022 min
Lab File: BN037856.D
Acq: 22 Sep 2025 14:33

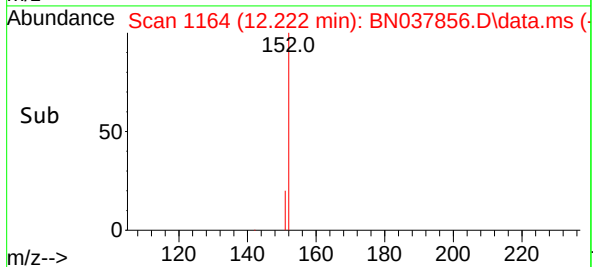
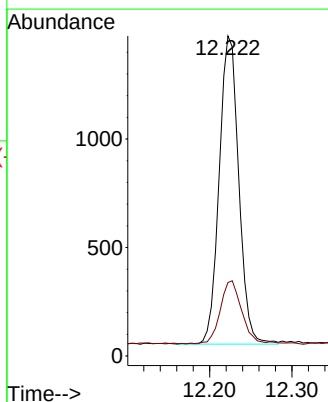
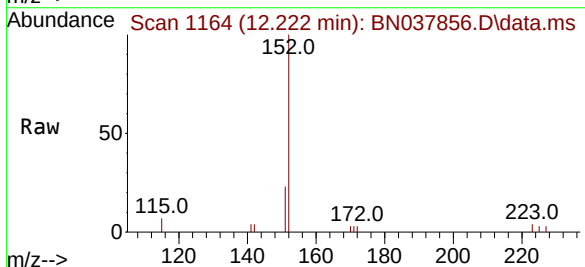
Instrument :
BNA_N
ClientSampleId :
RE132D6-20250916DL

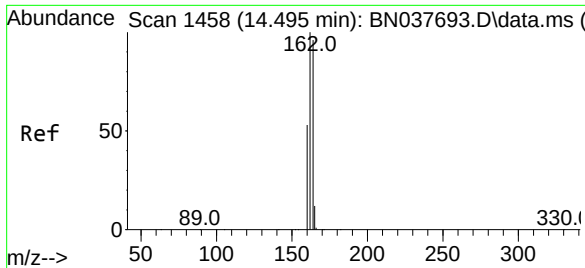
Tgt Ion: 82 Resp: 1721
Ion Ratio Lower Upper
82 100
128 42.4 38.3 57.5
54 58.1 41.4 62.2



#11
2-Methylnaphthalene-d10
Concen: 0.124 ng
RT: 12.222 min Scan# 1164
Delta R.T. -0.020 min
Lab File: BN037856.D
Acq: 22 Sep 2025 14:33

Tgt Ion: 152 Resp: 2335
Ion Ratio Lower Upper
152 100
151 23.5 17.0 25.6

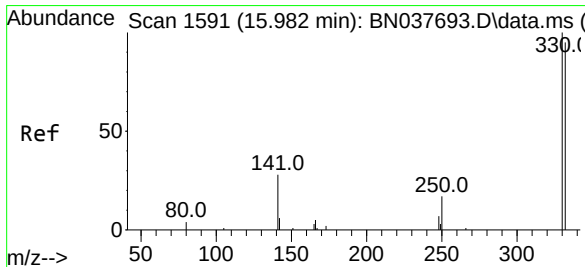
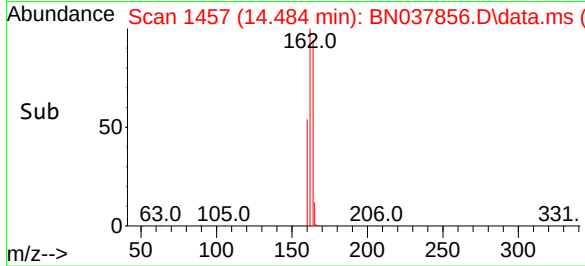
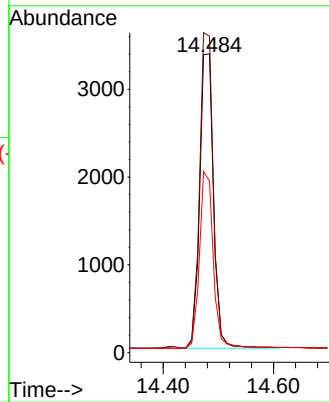
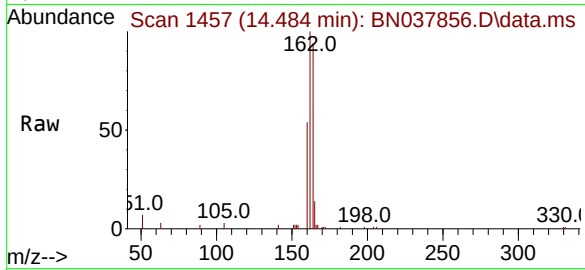




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037856.D
Acq: 22 Sep 2025 14:33

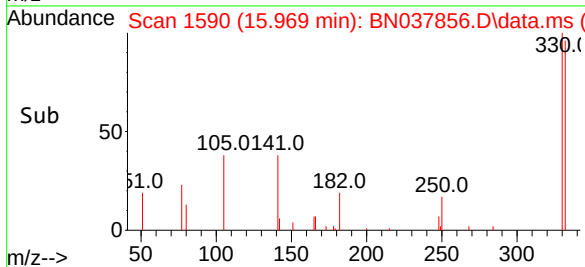
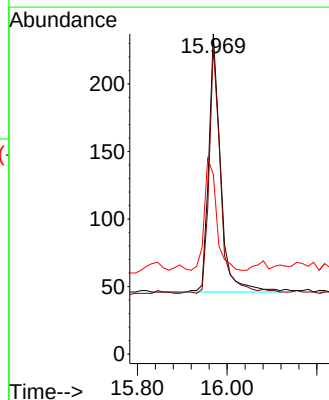
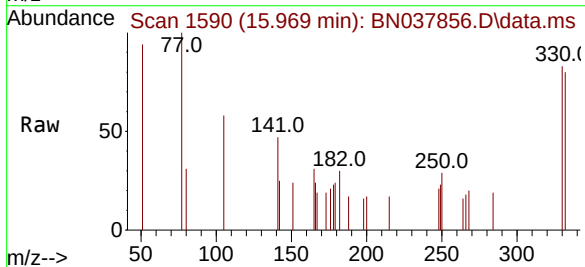
Instrument :
BNA_N
ClientSampleId :
RE132D6-20250916DL

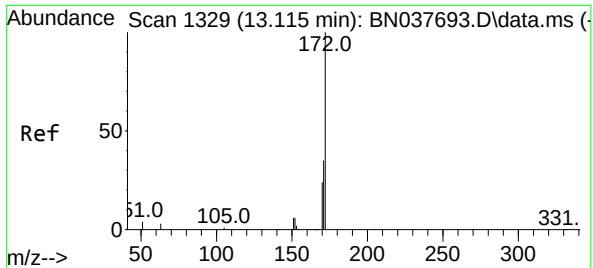
Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.9	83.1	124.7
160	57.4	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.231 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037856.D
Acq: 22 Sep 2025 14:33

Tgt Ion	Ratio	Lower	Upper
330	100		
332	93.2	75.3	112.9
141	43.5	35.0	52.4

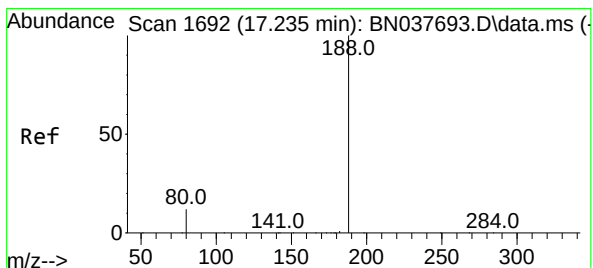
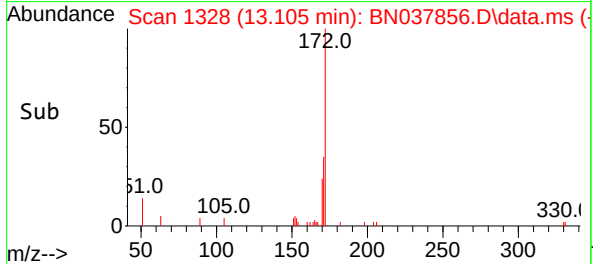
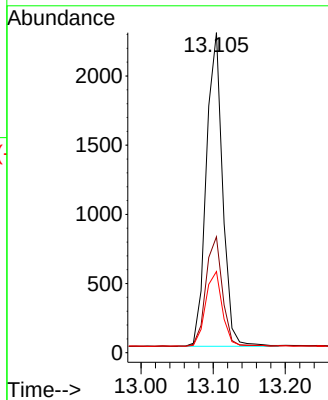
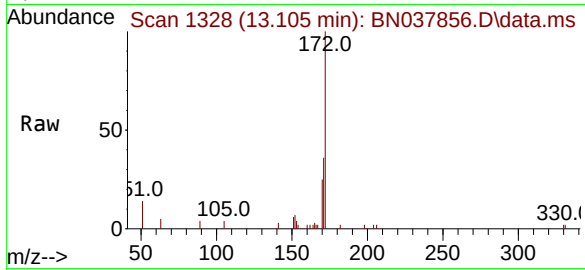




#15
2-Fluorobiphenyl
Concen: 0.145 ng
RT: 13.105 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN037856.D
Acq: 22 Sep 2025 14:33

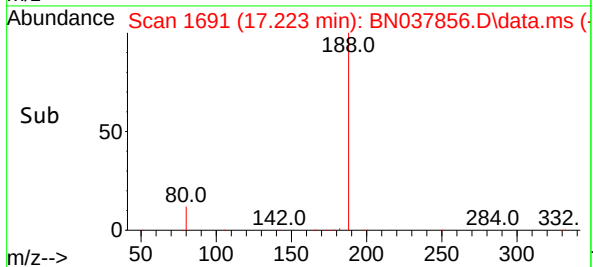
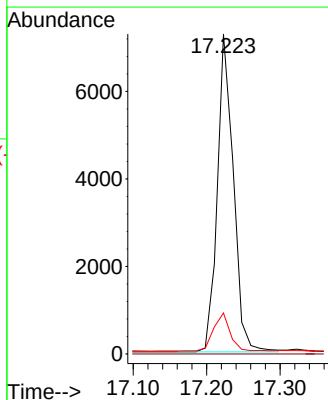
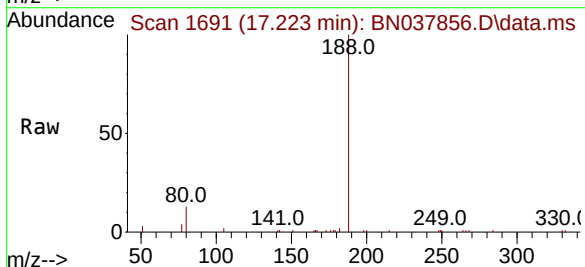
Instrument :
BNA_N
ClientSampleId :
RE132D6-20250916DL

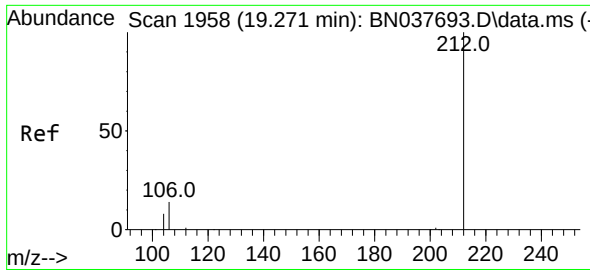
Tgt Ion:	172	Resp:	3548
Ion Ratio	Lower	Upper	
172	100		
171	36.2	28.6	43.0
170	25.4	19.8	29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.013 min
Lab File: BN037856.D
Acq: 22 Sep 2025 14:33

Tgt Ion:	188	Resp:	11015
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	12.8	10.6	15.8

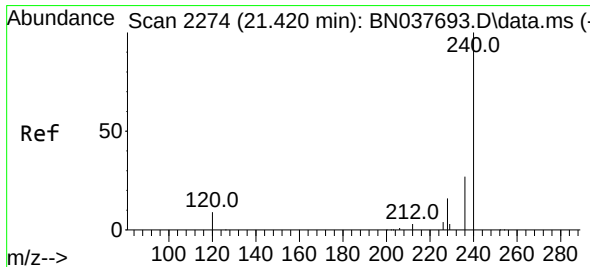
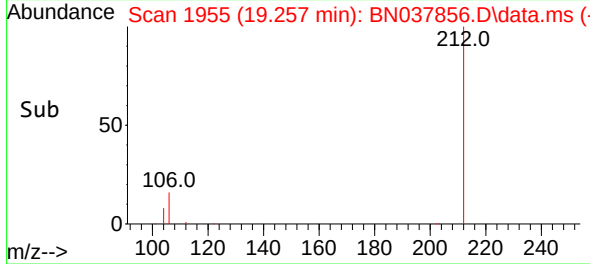
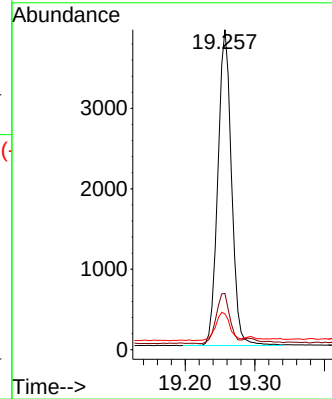
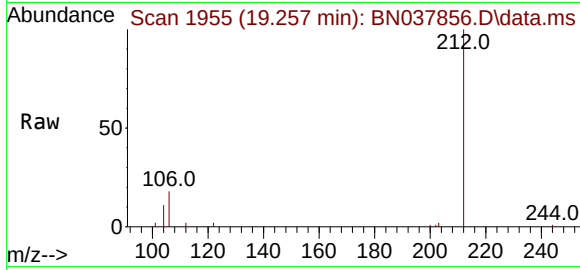




#27
Fluoranthene-d10
Concen: 0.194 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037856.D
Acq: 22 Sep 2025 14:33

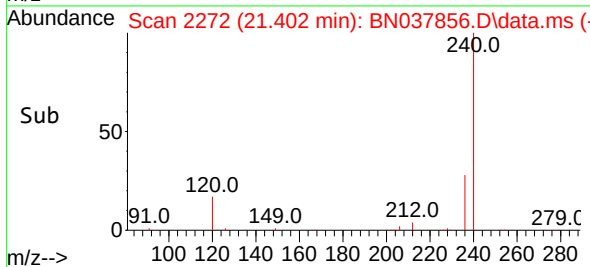
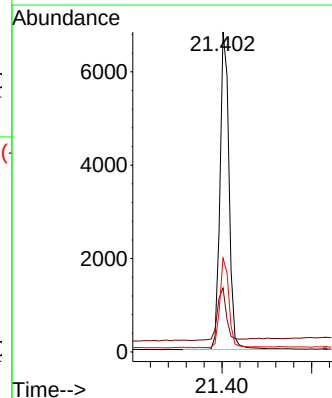
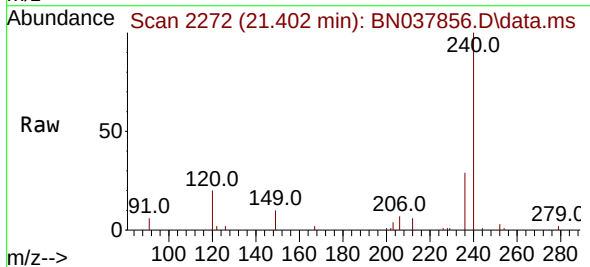
Instrument :
BNA_N
ClientSampleId :
RE132D6-20250916DL

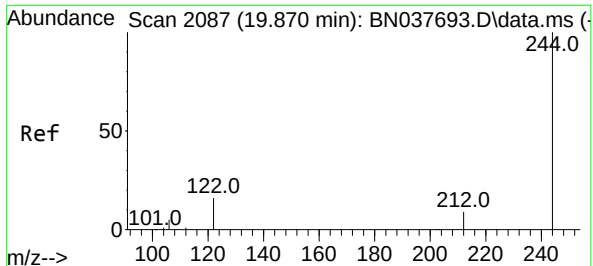
Tgt Ion	Ratio	Lower	Upper
212	100		
106	16.0	12.2	18.2
104	9.1	6.9	10.3



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.018 min
Lab File: BN037856.D
Acq: 22 Sep 2025 14:33

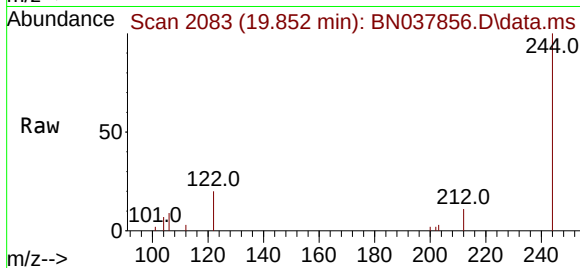
Tgt Ion	Ratio	Lower	Upper
240	100		
120	20.0	9.2	13.8
236	29.3	22.6	33.8



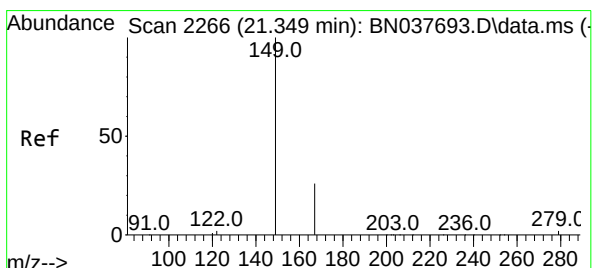
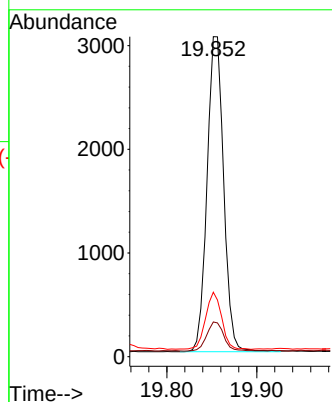


#31
Terphenyl-d14
Concen: 0.201 ng
RT: 19.852 min Scan# 2083
Delta R.T. -0.019 min
Lab File: BN037856.D
Acq: 22 Sep 2025 14:33

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250916DL

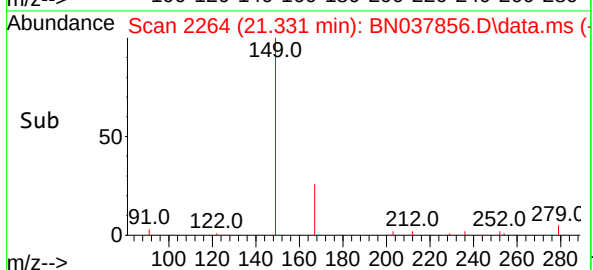
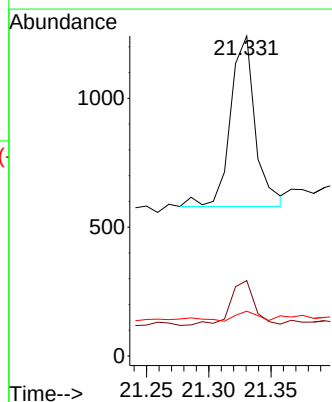
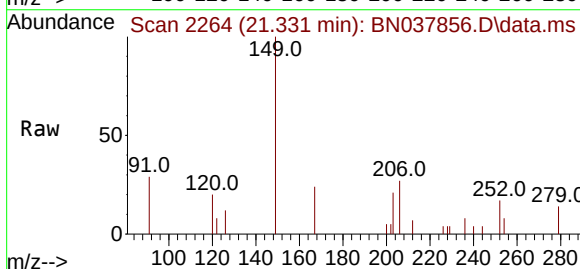


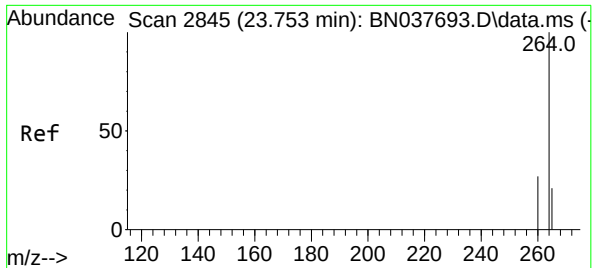
Tgt Ion:244 Resp: 3913
Ion Ratio Lower Upper
244 100
212 10.9 7.5 11.3
122 20.2 13.2 19.8#



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.093 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037856.D
Acq: 22 Sep 2025 14:33

Tgt Ion:149 Resp: 920
Ion Ratio Lower Upper
149 100
167 25.7 20.8 31.2
279 5.1 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.733 min Scan# 21

Delta R.T. -0.021 min

Lab File: BN037856.D

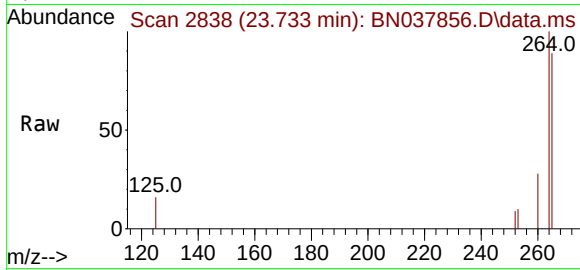
Acq: 22 Sep 2025 14:33

Instrument :

BNA_N

ClientSampleId :

RE132D6-20250916DL



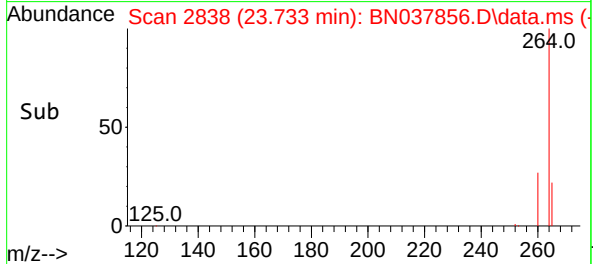
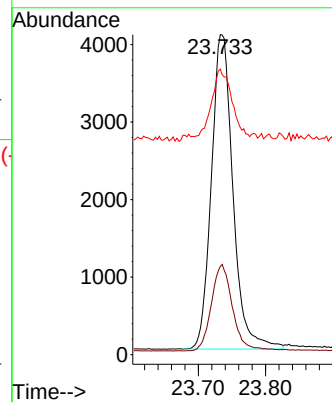
Tgt Ion:264 Resp: 9066

Ion Ratio Lower Upper

264 100

260 27.6 21.8 32.8

265 89.3 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/15/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/17/25
Client Sample ID:	TT101D2-20250915	SDG No.:	Q3127
Lab Sample ID:	Q3127-09	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037838.D	1	09/18/25 11:35	09/20/25 06:13	PB169743

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.10		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		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		89%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		86%	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	5810	7.826				
1146-65-2	Naphthalene-d8	15100	10.626				
15067-26-2	Acenaphthene-d10	6200	14.484				
1517-22-2	Phenanthrene-d10	10800	17.223				
1719-03-5	Chrysene-d12	8800	21.411				
1520-96-3	Perylene-d12	8550	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 : BN037838.D
Acq On : 20 Sep 2025 06:13
Operator : RC/JU
Sample : Q3127-09
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915

Quant Time: Sep 22 00:35:51 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

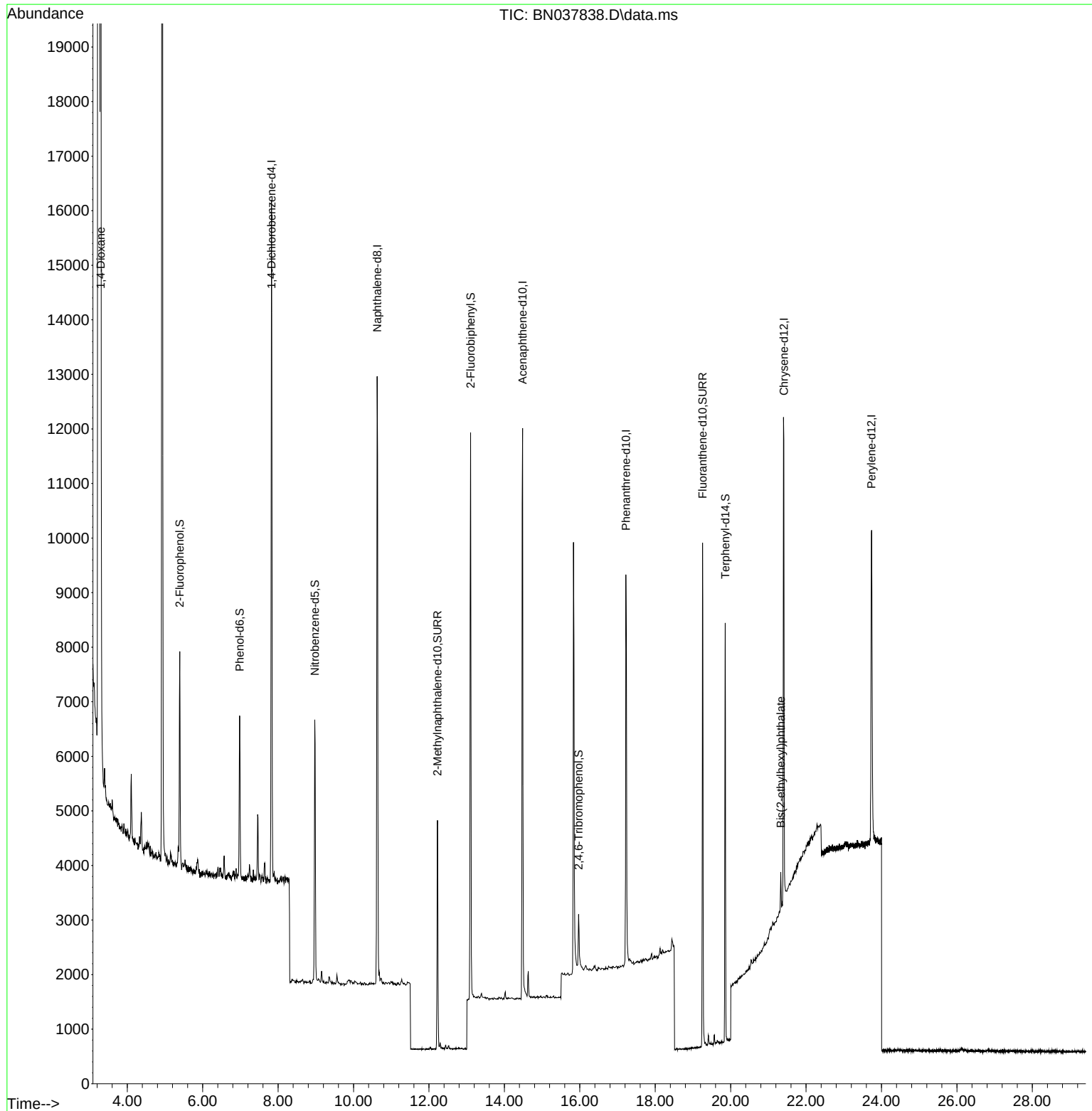
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.826	152	5806	0.400	ng	-0.01
7) Naphthalene-d8	10.626	136	15130	0.400	ng	#-0.02
13) Acenaphthene-d10	14.484	164	6198	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	10844	0.400	ng	-0.01
29) Chrysene-d12	21.411	240	8801	0.400	ng	0.00
35) Perylene-d12	23.736	264	8553	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	3012	0.226	ng	0.00
5) Phenol-d6	6.981	99	2729	0.158	ng	0.00
8) Nitrobenzene-d5	8.971	82	3956	0.357	ng	-0.02
11) 2-Methylnaphthalene-d10	12.228	152	5816	0.290	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	666	0.412	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	8965	0.346	ng	-0.01
27) Fluoranthene-d10	19.257	212	10130	0.372	ng	-0.01
31) Terphenyl-d14	19.857	244	7226	0.405	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	18668	3.087	ng	96
34) Bis(2-ethylhexyl)phtha...	21.331	149	668	0.073	ng	# 97

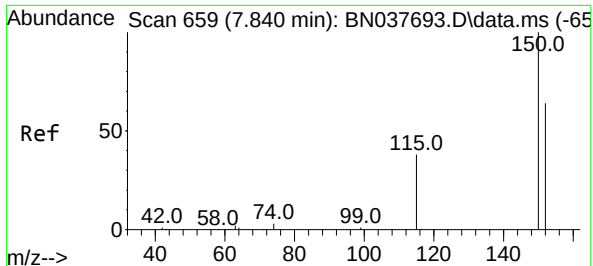
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037838.D
Acq On : 20 Sep 2025 06:13
Operator : RC/JU
Sample : Q3127-09
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915

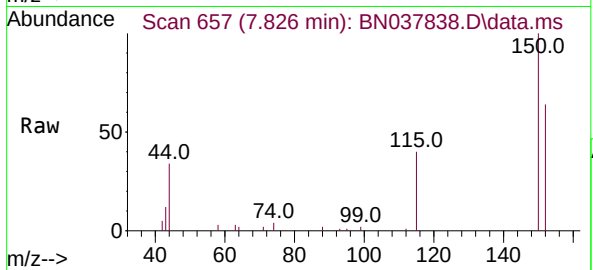
Quant Time: Sep 22 00:35:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



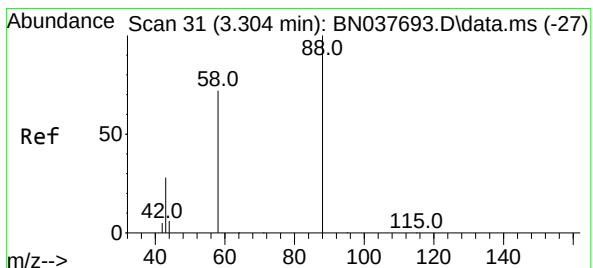
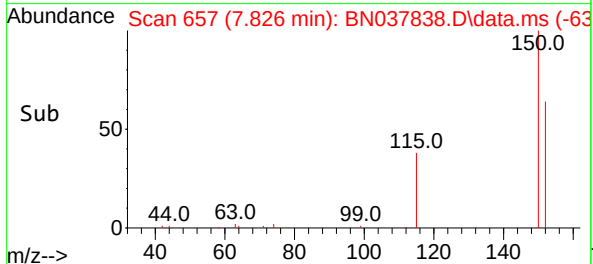
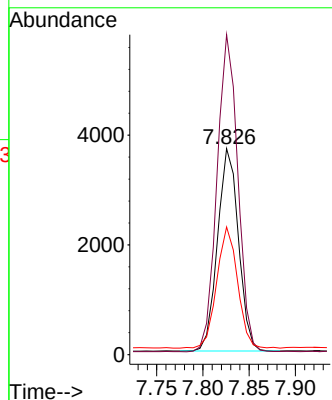


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 61
Delta R.T. -0.014 min
Lab File: BN037838.D
Acq: 20 Sep 2025 06:13

Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915

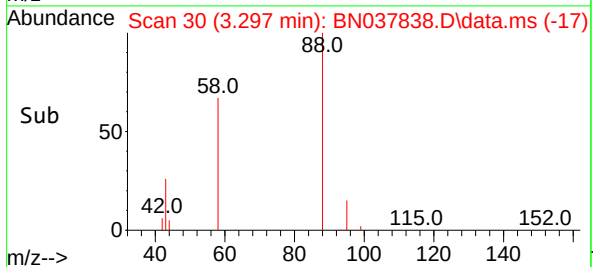
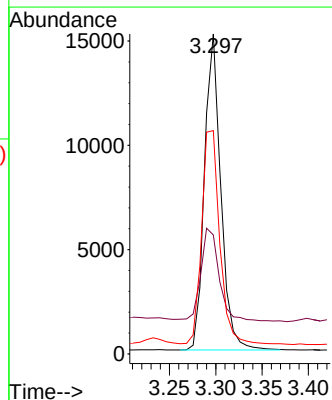
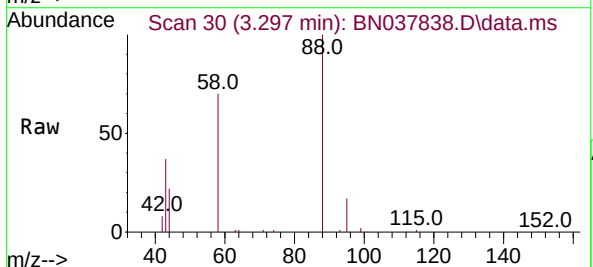


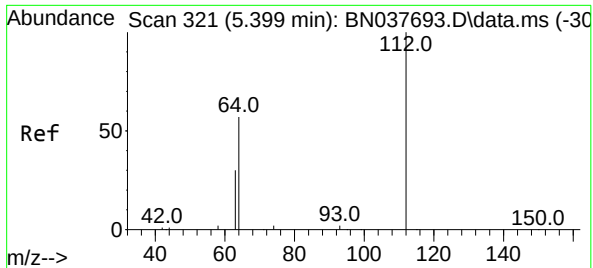
Tgt Ion:152 Resp: 5806
Ion Ratio Lower Upper
152 100
150 155.4 124.5 186.7
115 62.0 49.2 73.8



#2
1,4-Dioxane
Concen: 3.087 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037838.D
Acq: 20 Sep 2025 06:13

Tgt Ion: 88 Resp: 18668
Ion Ratio Lower Upper
88 100
43 32.5 26.8 40.2
58 73.6 61.9 92.9

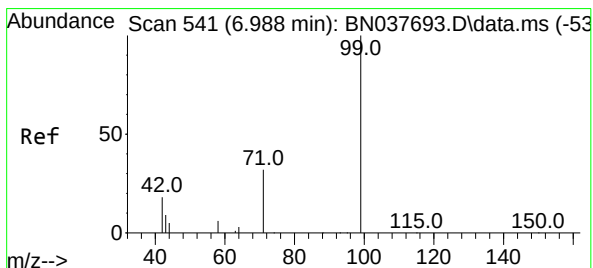
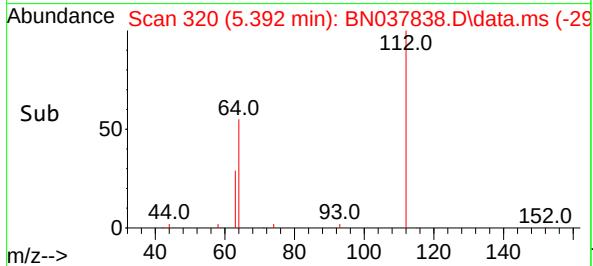
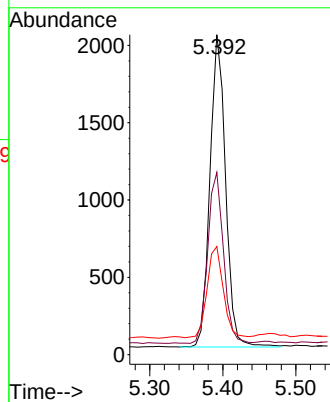
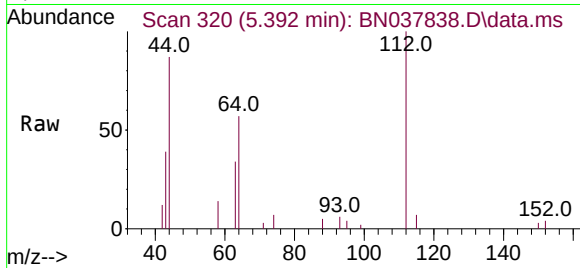




#4
2-Fluorophenol
Concen: 0.226 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037838.D
Acq: 20 Sep 2025 06:13

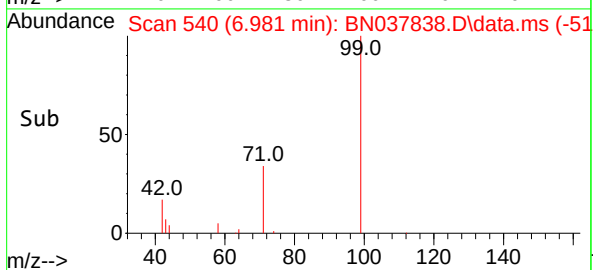
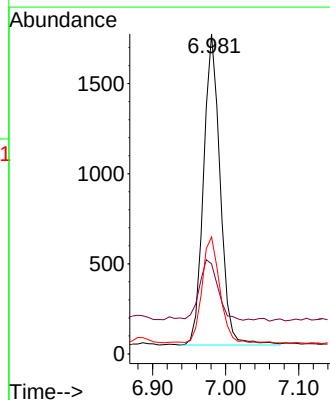
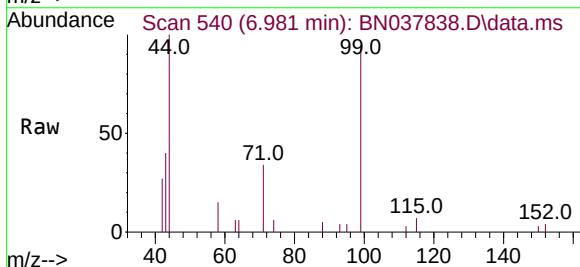
Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915

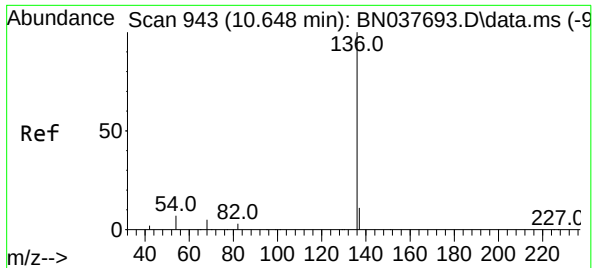
Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.6	44.9	67.3
63	30.1	24.7	37.1



#5
Phenol-d6
Concen: 0.158 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037838.D
Acq: 20 Sep 2025 06:13

Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.3	16.6	24.8
71	36.0	26.7	40.1

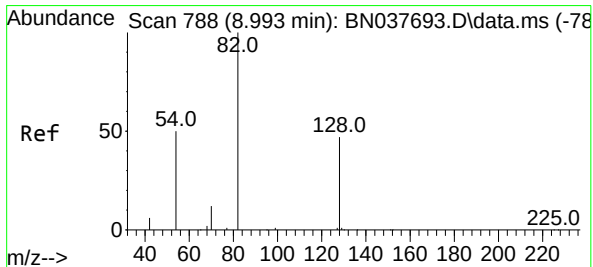
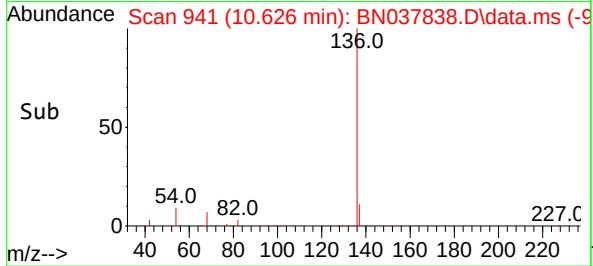
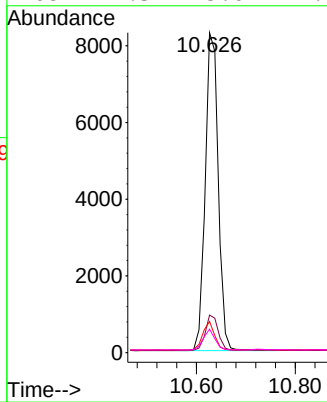
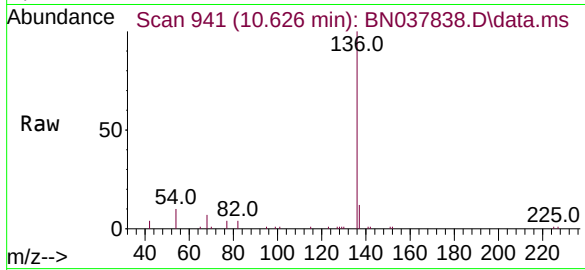




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. -0.021 min
Lab File: BN037838.D
Acq: 20 Sep 2025 06:13

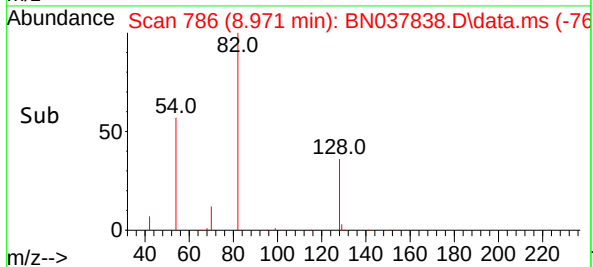
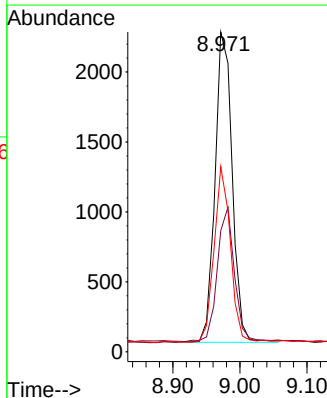
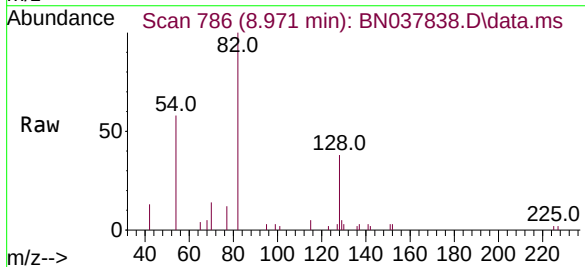
Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915

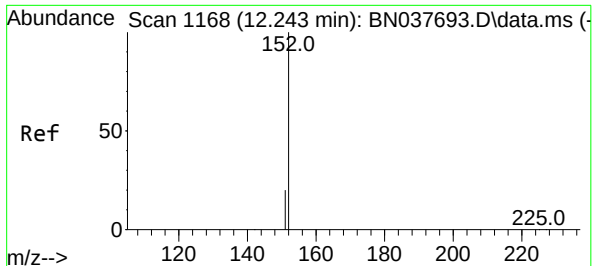
Tgt Ion:	136	Resp:	15130
Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.1	13.7
54	9.7	6.3	9.5#
68	7.3	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.357 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.021 min
Lab File: BN037838.D
Acq: 20 Sep 2025 06:13

Tgt Ion:	82	Resp:	3956
Ion	Ratio	Lower	Upper
82	100		
128	37.9	38.3	57.5#
54	57.8	41.4	62.2

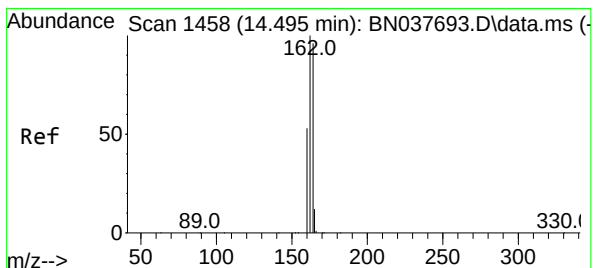
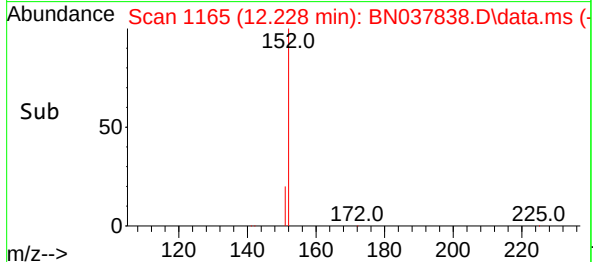
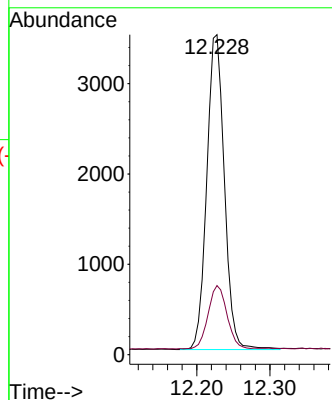
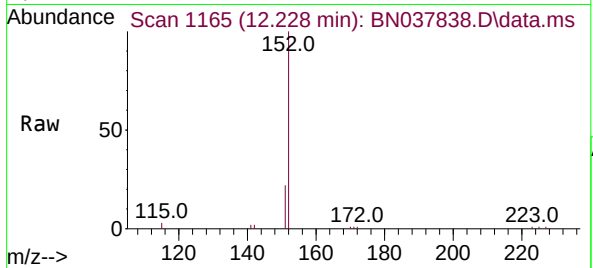




#11
2-Methylnaphthalene-d10
Concen: 0.290 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037838.D
Acq: 20 Sep 2025 06:13

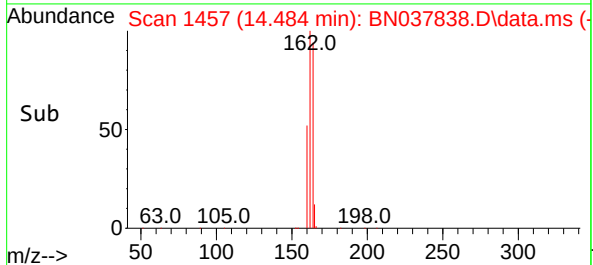
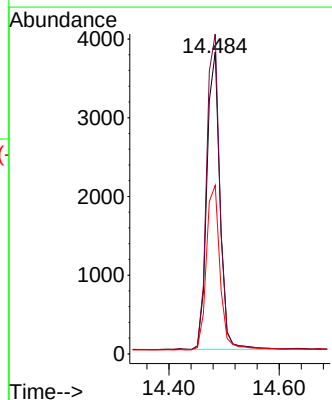
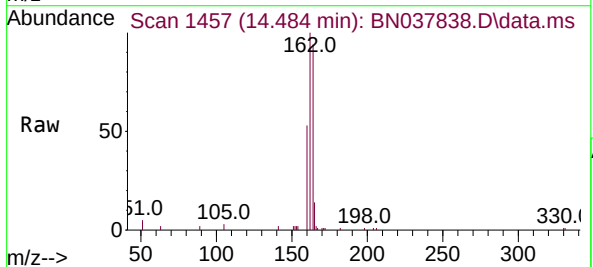
Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915

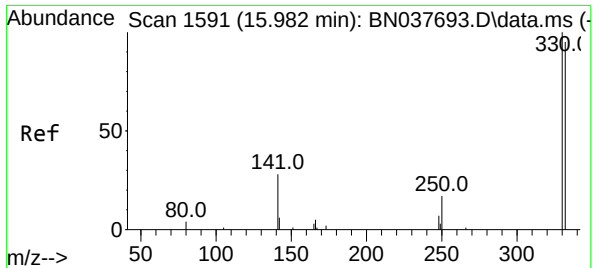
Tgt Ion:152 Resp: 5816
Ion Ratio Lower Upper
152 100
151 21.5 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037838.D
Acq: 20 Sep 2025 06:13

Tgt Ion:164 Resp: 6198
Ion Ratio Lower Upper
164 100
162 106.0 83.1 124.7
160 55.8 44.3 66.5

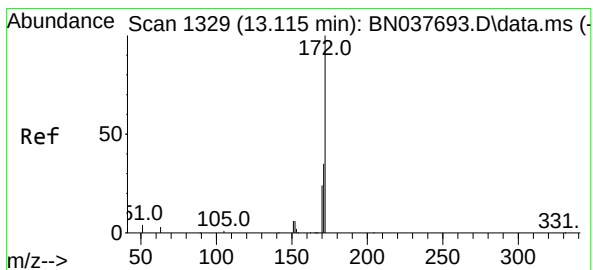
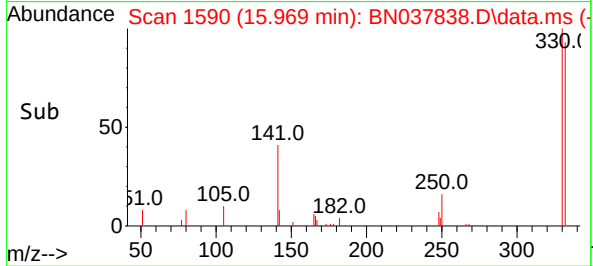
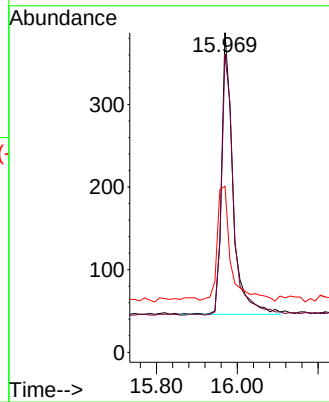
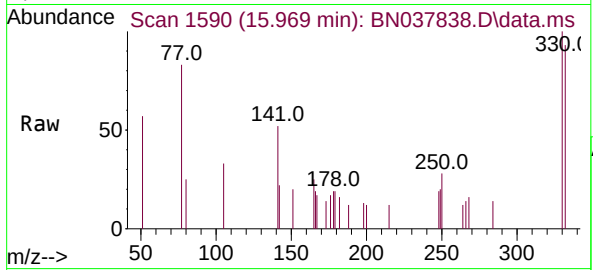




#14
2,4,6-Tribromophenol
Concen: 0.412 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037838.D
Acq: 20 Sep 2025 06:13

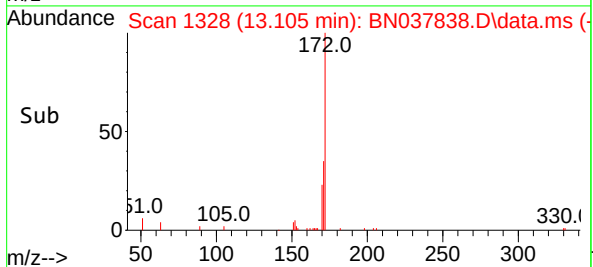
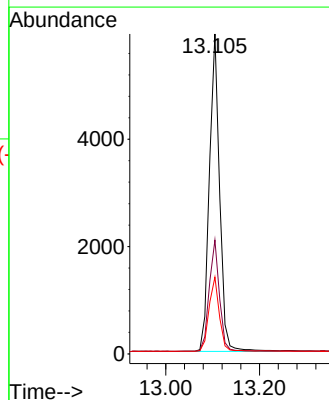
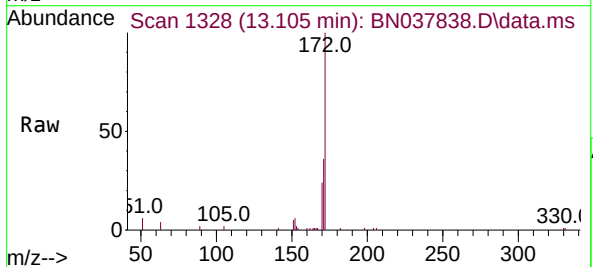
Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915

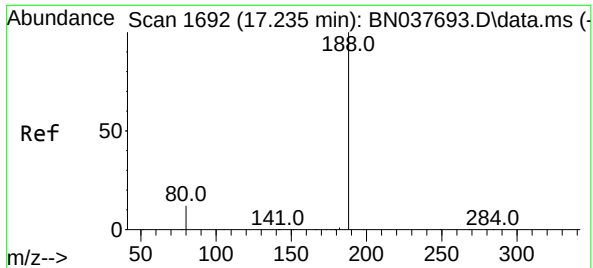
Tgt Ion	330	Resp	666
Ion Ratio	100		
Lower	75.3		
Upper	112.9		



#15
2-Fluorobiphenyl
Concen: 0.346 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037838.D
Acq: 20 Sep 2025 06:13

Tgt Ion	172	Resp	8965
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower	28.6		
Upper	43.0		

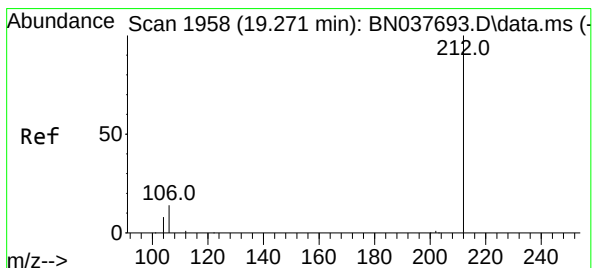
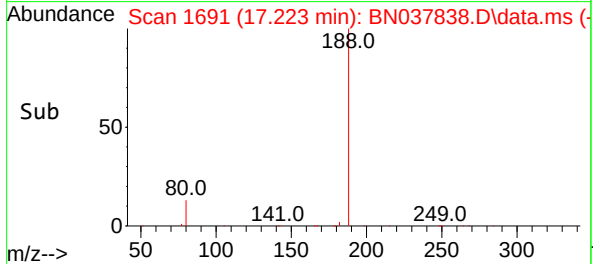
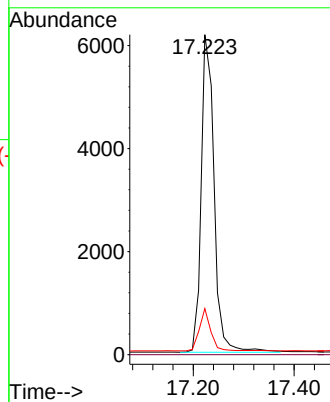
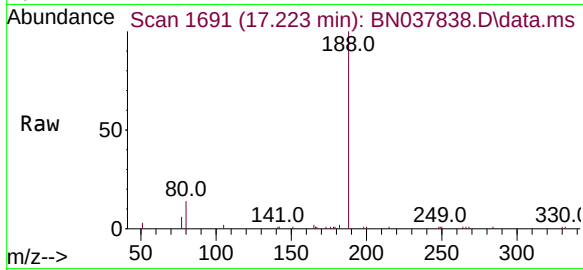




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN037838.D
Acq: 20 Sep 2025 06:13

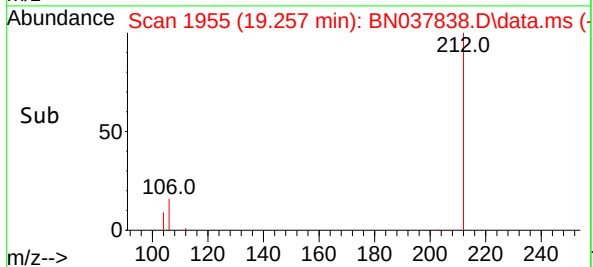
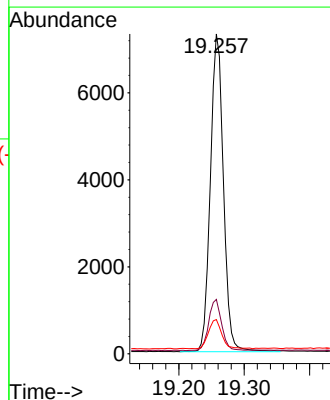
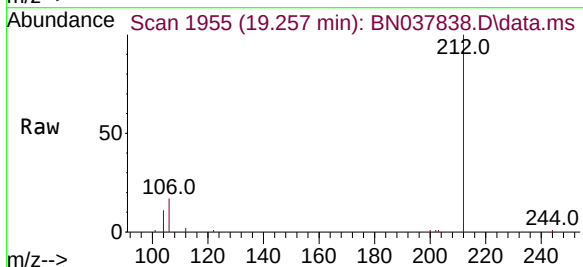
Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915

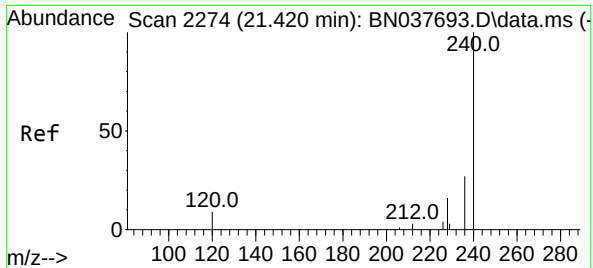
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.4	10.6	15.8



#27
Fluoranthene-d10
Concen: 0.372 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037838.D
Acq: 20 Sep 2025 06:13

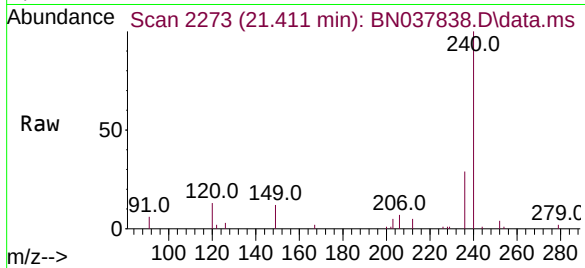
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.8	12.2	18.2
104	9.4	6.9	10.3



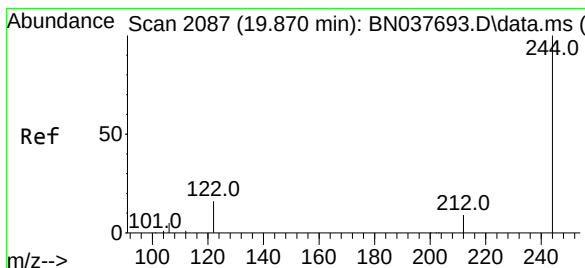
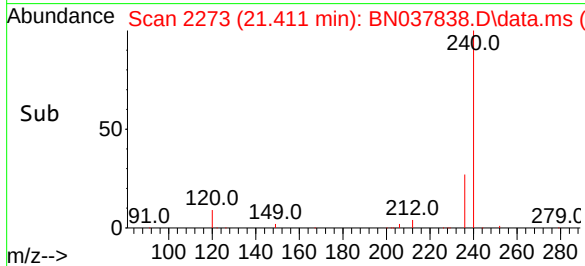
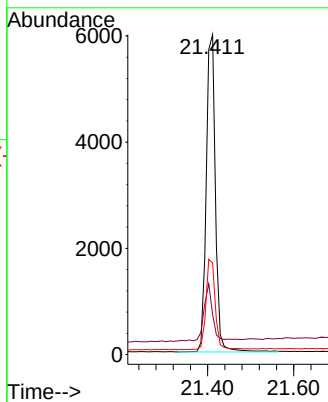


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037838.D
Acq: 20 Sep 2025 06:13

Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915

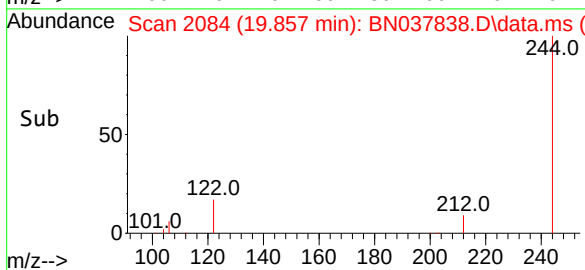
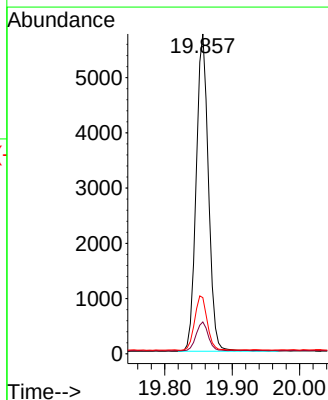
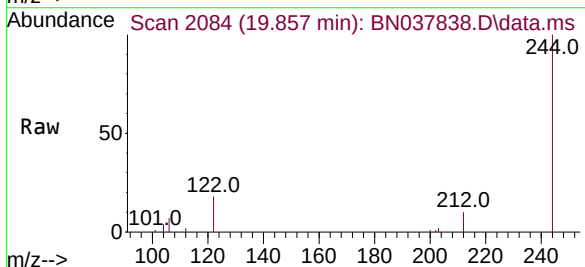


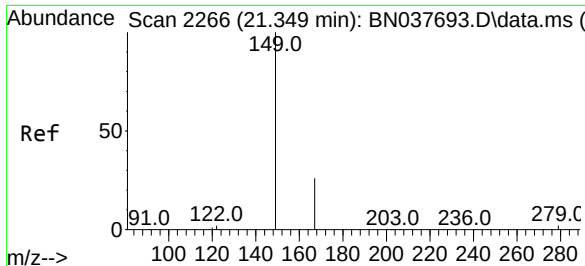
Tgt Ion:240 Resp: 8801
Ion Ratio Lower Upper
240 100
120 12.5 9.2 13.8
236 28.6 22.6 33.8



#31
Terphenyl-d14
Concen: 0.405 ng
RT: 19.857 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037838.D
Acq: 20 Sep 2025 06:13

Tgt Ion:244 Resp: 7226
Ion Ratio Lower Upper
244 100
212 10.0 7.5 11.3
122 17.6 13.2 19.8

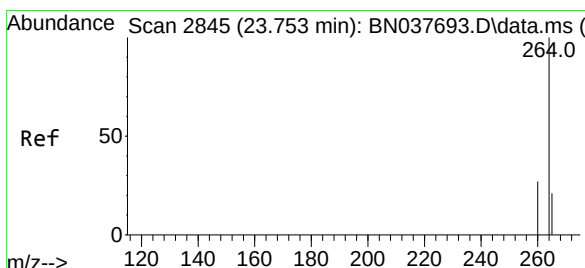
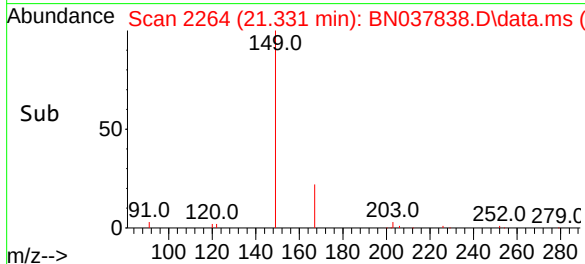
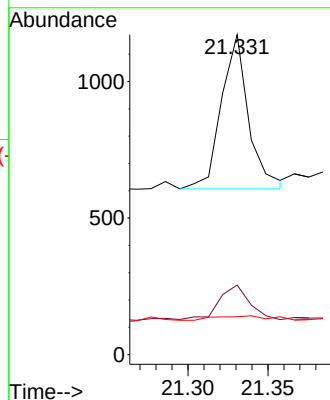
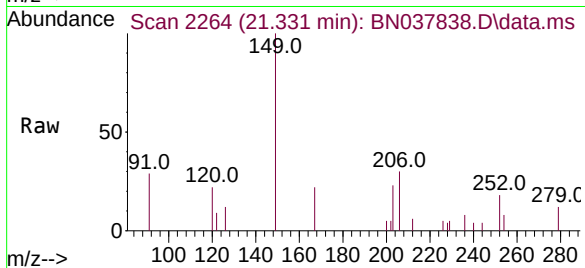




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.073 ng
RT: 21.331 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037838.D
Acq: 20 Sep 2025 06:13

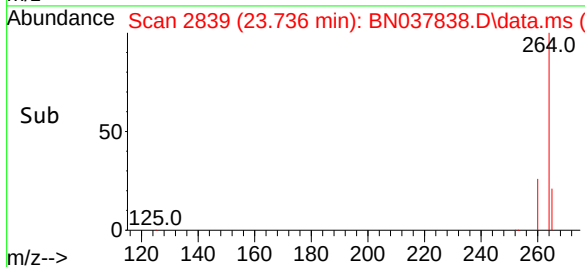
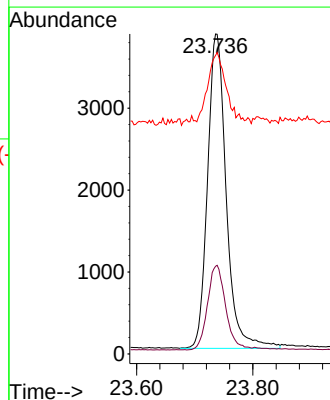
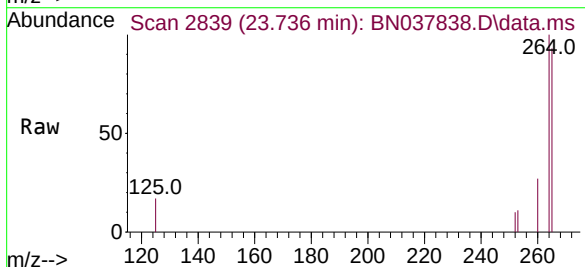
Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915

Tgt Ion:149 Resp: 668
Ion Ratio Lower Upper
149 100
167 24.7 20.8 31.2
279 5.8 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: BN037838.D
Acq: 20 Sep 2025 06:13

Tgt Ion:264 Resp: 8553
Ion Ratio Lower Upper
264 100
260 27.4 21.8 32.8
265 93.3 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/15/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/17/25
Client Sample ID:	TT101D-20250915	SDG No.:	Q3127
Lab Sample ID:	Q3127-10	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
BN037839.D	1	09/18/25 11:35	09/20/25 06:50	PB169743

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.00		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.23		30 - 150		58%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		74%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.28		53 - 106		71%	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	5800	7.826				
1146-65-2	Naphthalene-d8	15000	10.626				
15067-26-2	Acenaphthene-d10	6300	14.484				
1517-22-2	Phenanthrene-d10	11100	17.223				
1719-03-5	Chrysene-d12	9460	21.402				
1520-96-3	Perylene-d12	8980	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 : BN037839.D
Acq On : 20 Sep 2025 06:50
Operator : RC/JU
Sample : Q3127-10
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT101D-20250915

Quant Time: Sep 22 00:36:05 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

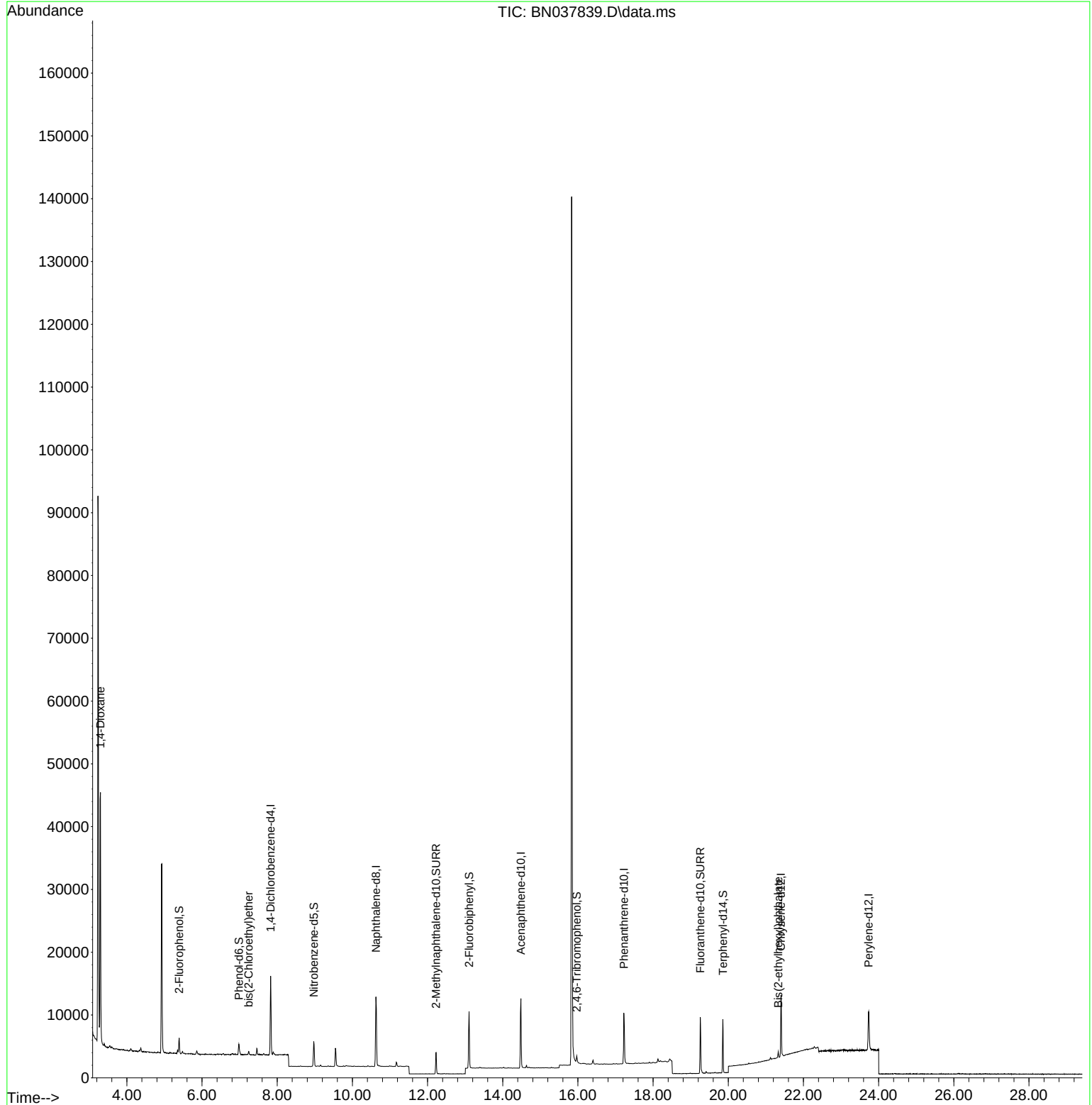
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.826	152	5800	0.400	ng	-0.01
7) Naphthalene-d8	10.626	136	15024	0.400	ng	-0.02
13) Acenaphthene-d10	14.484	164	6297	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	11149	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	9464	0.400	ng	#-0.02
35) Perylene-d12	23.736	264	8977	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1900	0.143	ng	0.00
5) Phenol-d6	6.981	99	1528	0.089	ng	0.00
8) Nitrobenzene-d5	8.971	82	3242	0.295	ng	-0.02
11) 2-Methylnaphthalene-d10	12.223	152	4618	0.232	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	651	0.396	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	7498	0.285	ng	-0.01
27) Fluoranthene-d10	19.257	212	9814	0.351	ng	-0.01
31) Terphenyl-d14	19.857	244	7680	0.400	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	24414	4.041	ng	97
6) bis(2-Chloroethyl)ether	7.241	93	390	0.025	ng	99
34) Bis(2-ethylhexyl)phtha...	21.331	149	919	0.094	ng	94

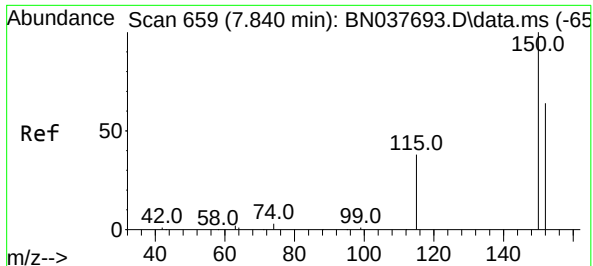
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037839.D
Acq On : 20 Sep 2025 06:50
Operator : RC/JU
Sample : Q3127-10
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT101D-20250915

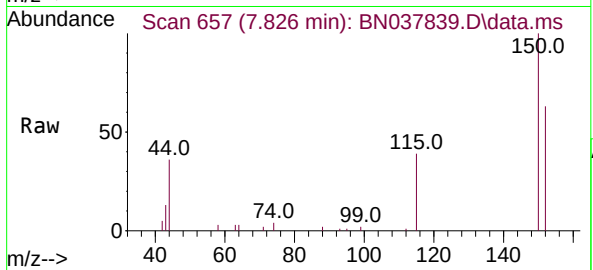
Quant Time: Sep 22 00:36:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



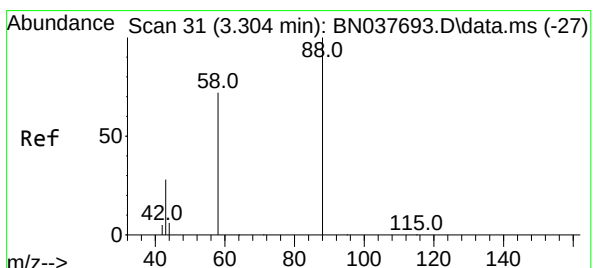
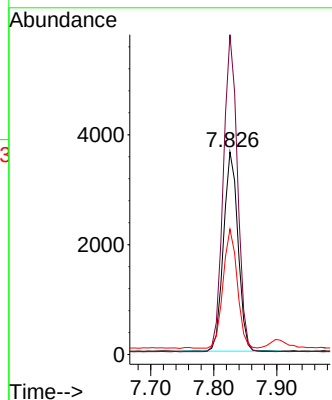
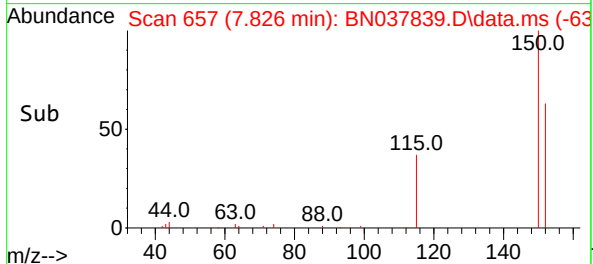


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 61
Delta R.T. -0.014 min
Lab File: BN037839.D
Acq: 20 Sep 2025 06:50

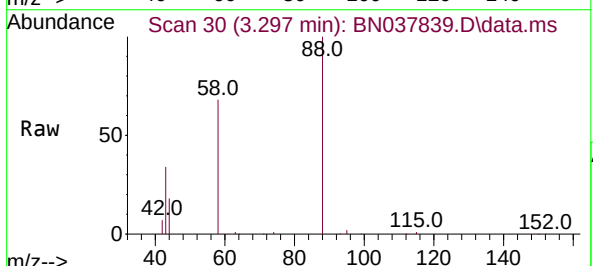
Instrument :
BNA_N
ClientSampleId :
TT101D-20250915



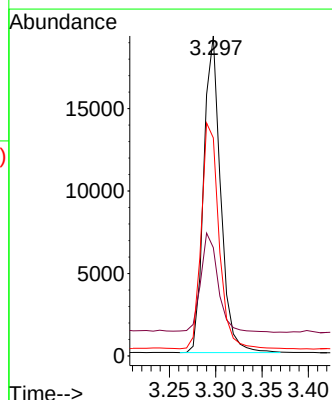
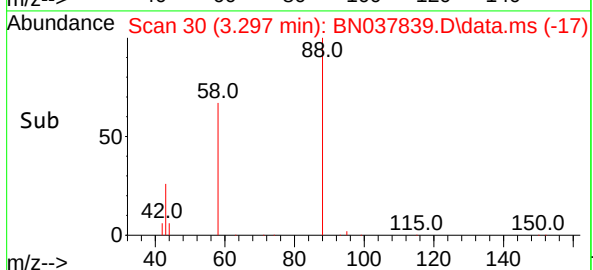
Tgt Ion:152 Resp: 5800
Ion Ratio Lower Upper
152 100
150 158.0 124.5 186.7
115 62.0 49.2 73.8

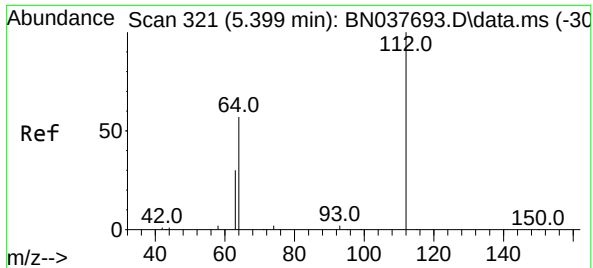


#2
1,4-Dioxane
Concen: 4.041 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037839.D
Acq: 20 Sep 2025 06:50



Tgt Ion: 88 Resp: 24414
Ion Ratio Lower Upper
88 100
43 32.4 26.8 40.2
58 74.3 61.9 92.9

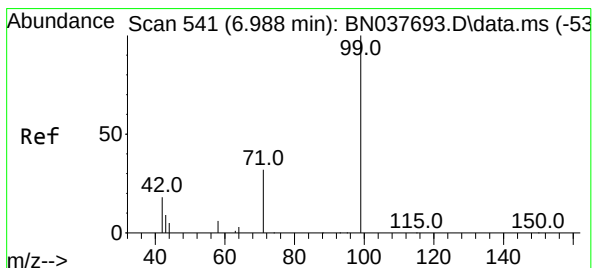
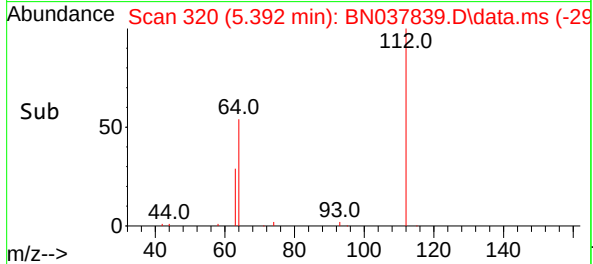
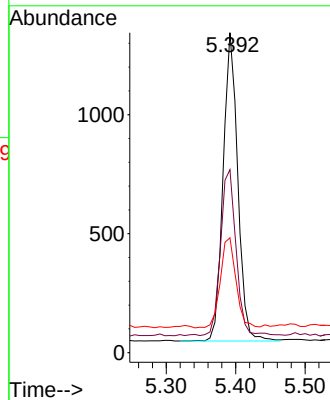
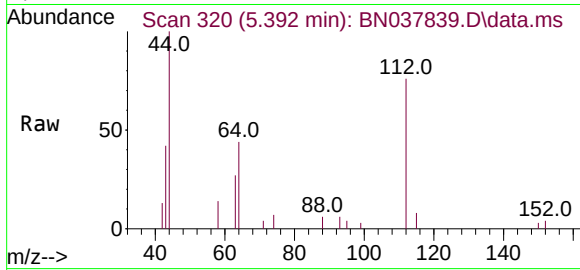




#4
2-Fluorophenol
Concen: 0.143 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037839.D
Acq: 20 Sep 2025 06:50

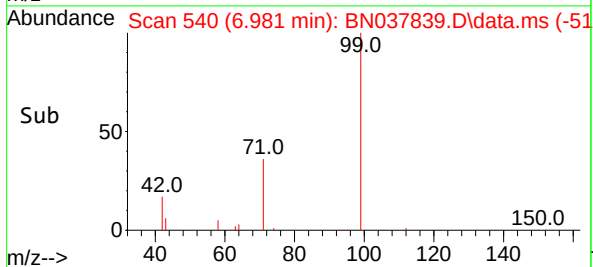
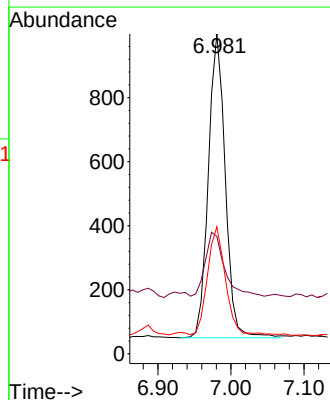
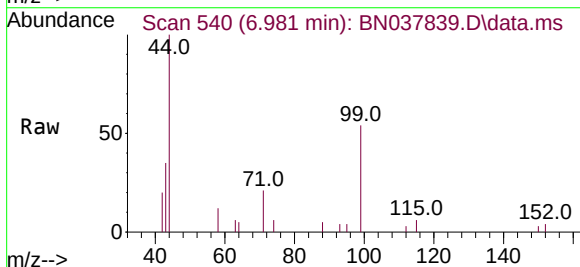
Instrument :
BNA_N
ClientSampleId :
TT101D-20250915

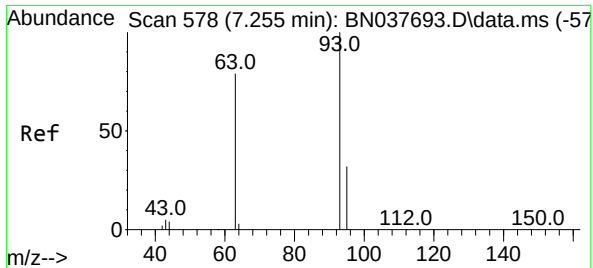
Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.9	44.9	67.3
63	31.6	24.7	37.1



#5
Phenol-d6
Concen: 0.089 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037839.D
Acq: 20 Sep 2025 06:50

Tgt Ion	Ratio	Lower	Upper
99	100		
42	23.7	16.6	24.8
71	38.3	26.7	40.1

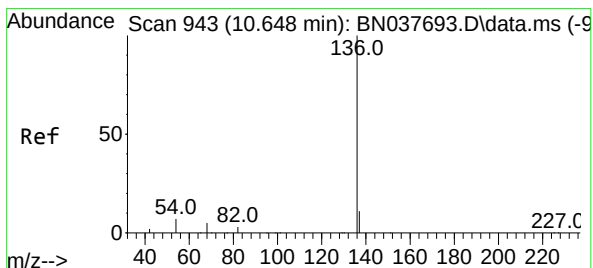
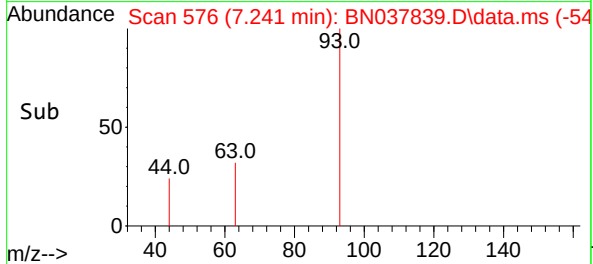
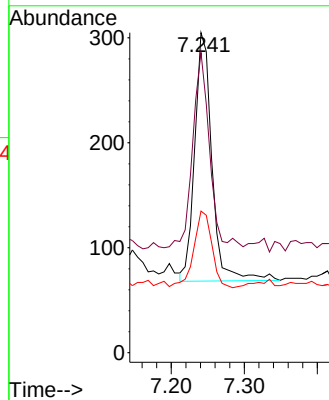
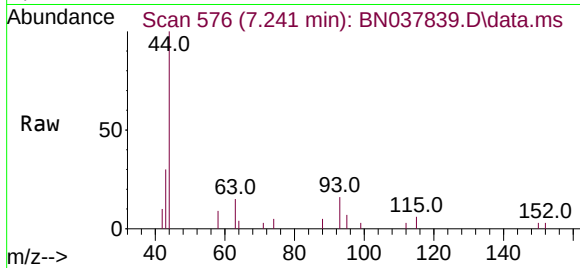




#6
bis(2-Chloroethyl)ether
Concen: 0.025 ng
RT: 7.241 min Scan# 51
Delta R.T. -0.014 min
Lab File: BN037839.D
Acq: 20 Sep 2025 06:50

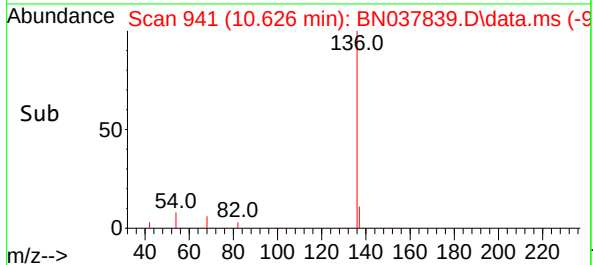
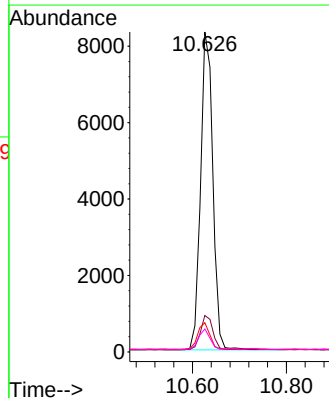
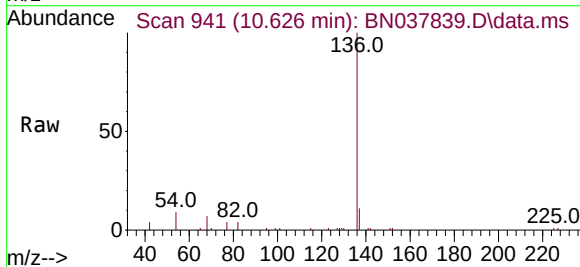
Instrument :
BNA_N
ClientSampleId :
TT101D-20250915

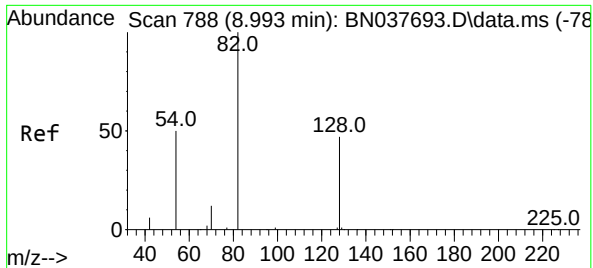
Tgt Ion:	93	Resp:	390
Ion	Ratio	Lower	Upper
93	100		
63	74.1	60.6	90.8
95	32.3	26.0	39.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.021 min
Lab File: BN037839.D
Acq: 20 Sep 2025 06:50

Tgt Ion:	136	Resp:	15024
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	9.1	6.3	9.5
68	7.2	5.0	7.4

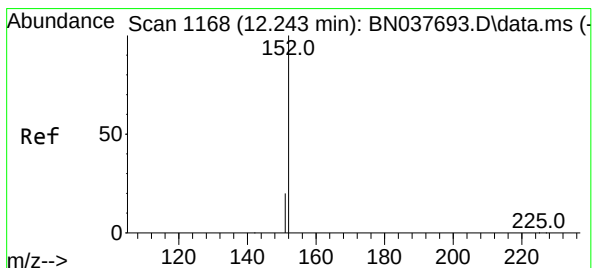
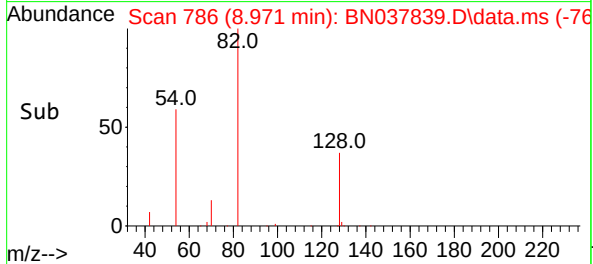
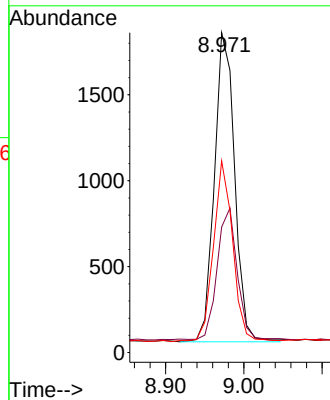
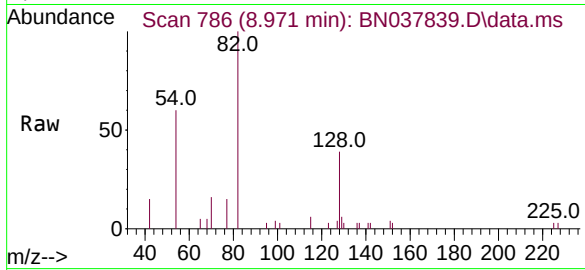




#8
Nitrobenzene-d5
Concen: 0.295 ng
RT: 8.971 min Scan# 788
Delta R.T. -0.021 min
Lab File: BN037839.D
Acq: 20 Sep 2025 06:50

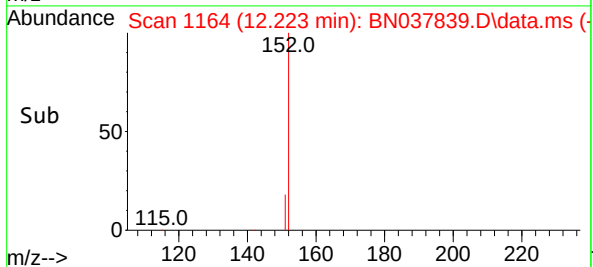
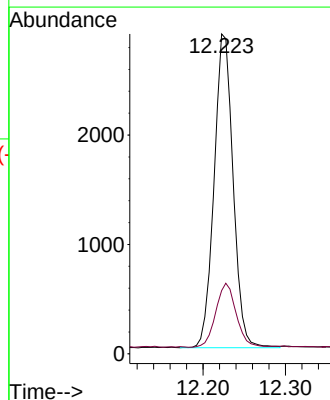
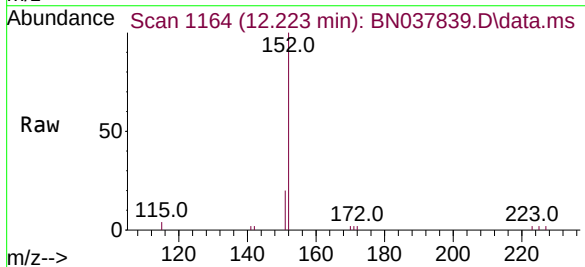
Instrument :
BNA_N
ClientSampleId :
TT101D-20250915

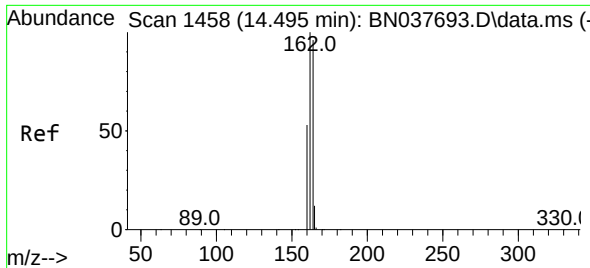
Tgt Ion: 82 Resp: 3242
Ion Ratio Lower Upper
82 100
128 39.2 38.3 57.5
54 59.9 41.4 62.2



#11
2-Methylnaphthalene-d10
Concen: 0.232 ng
RT: 12.223 min Scan# 1164
Delta R.T. -0.020 min
Lab File: BN037839.D
Acq: 20 Sep 2025 06:50

Tgt Ion: 152 Resp: 4618
Ion Ratio Lower Upper
152 100
151 21.8 17.0 25.6

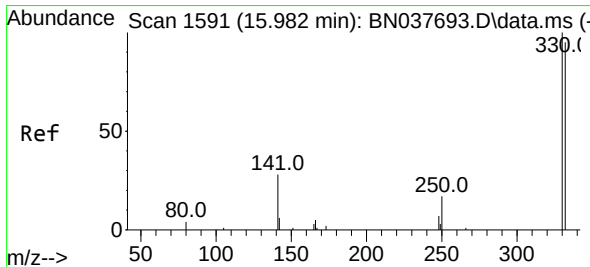
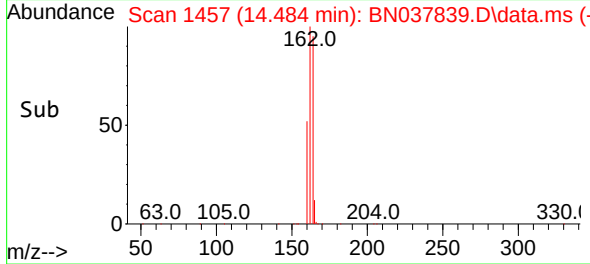
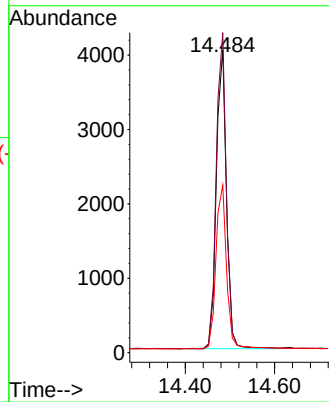
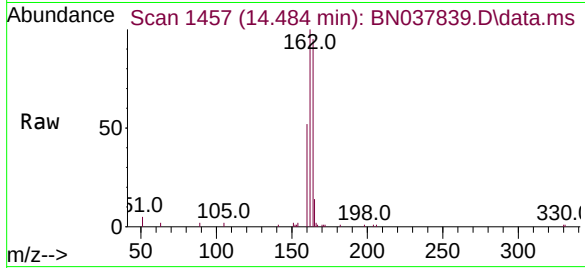




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037839.D
Acq: 20 Sep 2025 06:50

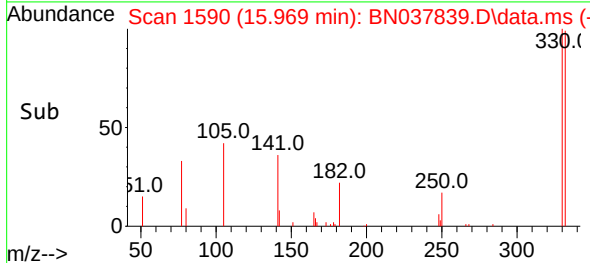
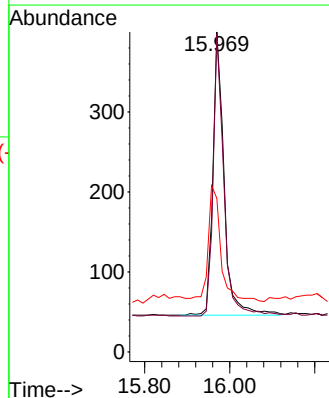
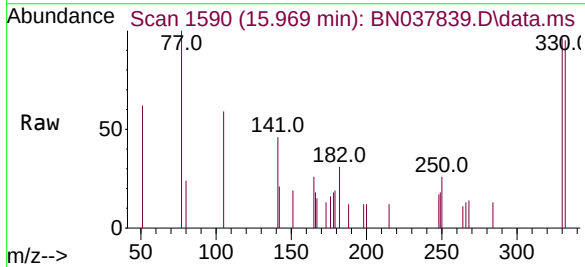
Instrument :
BNA_N
ClientSampleId :
TT101D-20250915

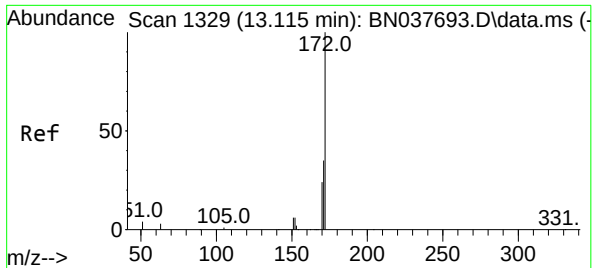
Tgt Ion:	164	Resp:	6297
Ion	Ratio	Lower	Upper
164	100		
162	105.7	83.1	124.7
160	55.3	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.396 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037839.D
Acq: 20 Sep 2025 06:50

Tgt Ion:	330	Resp:	651
Ion	Ratio	Lower	Upper
330	100		
332	94.0	75.3	112.9
141	46.9	35.0	52.4

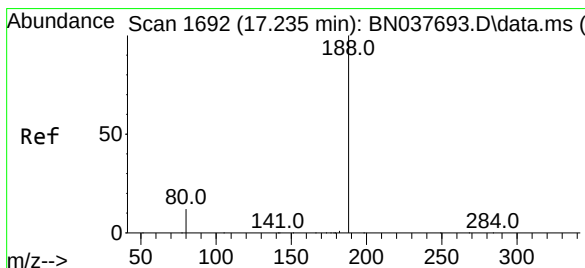
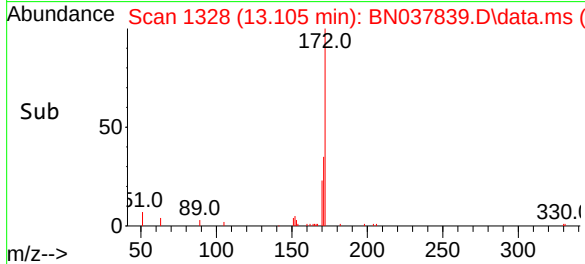
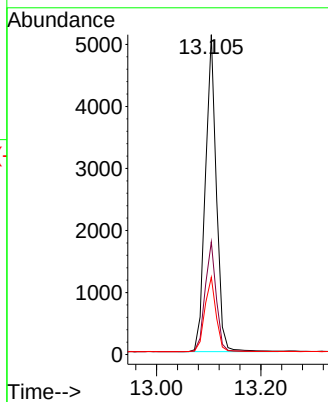
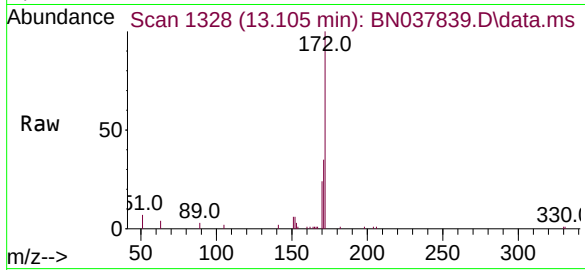




#15
2-Fluorobiphenyl
Concen: 0.285 ng
RT: 13.105 min Scan# 1329
Delta R.T. -0.011 min
Lab File: BN037839.D
Acq: 20 Sep 2025 06:50

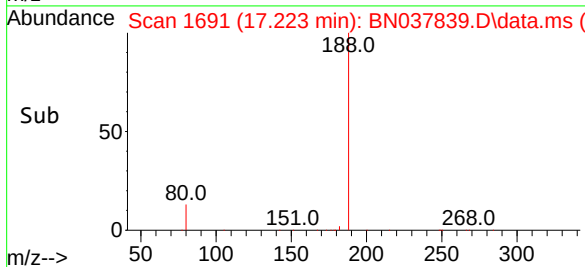
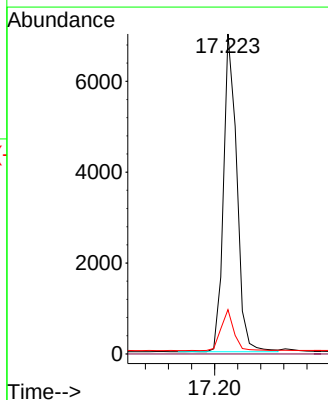
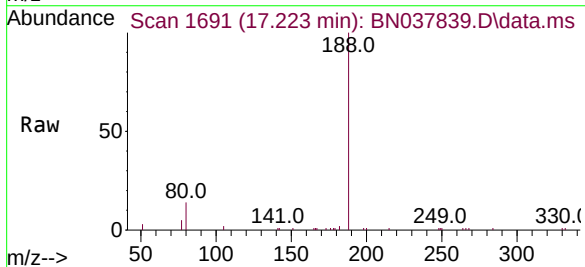
Instrument :
BNA_N
ClientSampleId :
TT101D-20250915

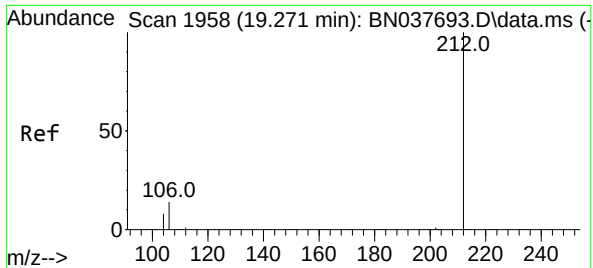
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.6	43.0
170	24.2	19.8	29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.012 min
Lab File: BN037839.D
Acq: 20 Sep 2025 06:50

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.8	10.6	15.8





#27

Fluoranthene-d10

Concen: 0.351 ng

RT: 19.257 min Scan# 19

Delta R.T. -0.014 min

Lab File: BN037839.D

Acq: 20 Sep 2025 06:50

Instrument :

BNA_N

ClientSampleId :

TT101D-20250915

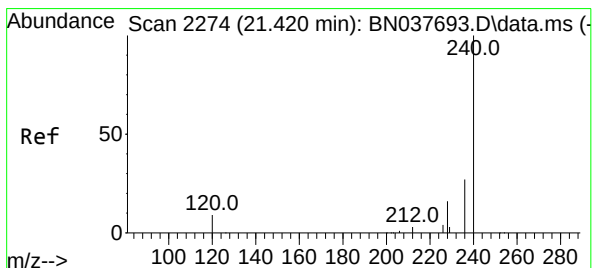
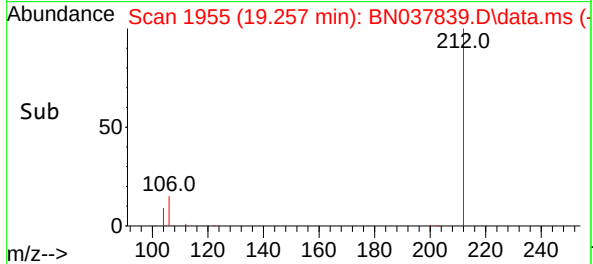
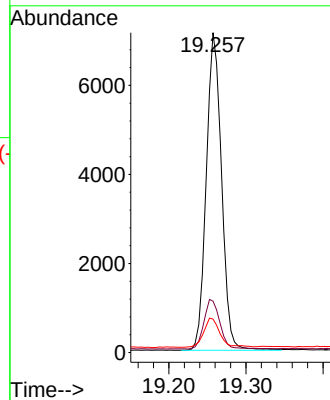
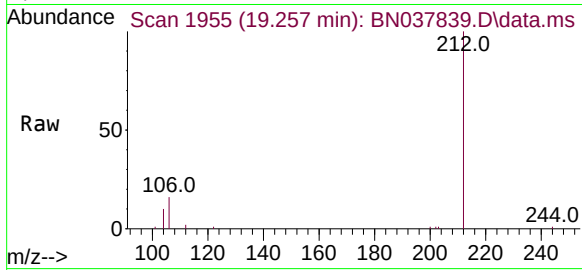
Tgt Ion:212 Resp: 9814

Ion Ratio Lower Upper

212 100

106 16.3 12.2 18.2

104 9.7 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: BN037839.D

Acq: 20 Sep 2025 06:50

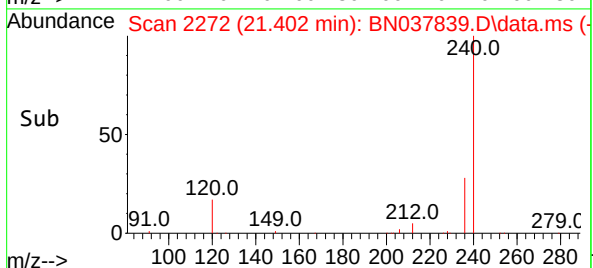
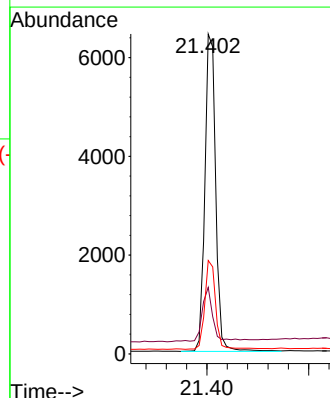
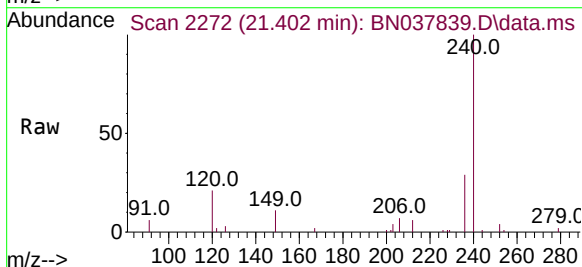
Tgt Ion:240 Resp: 9464

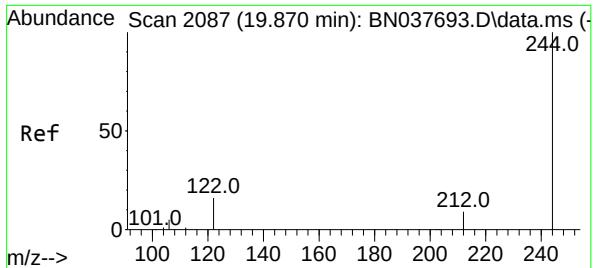
Ion Ratio Lower Upper

240 100

120 20.8 9.2 13.8#

236 29.2 22.6 33.8

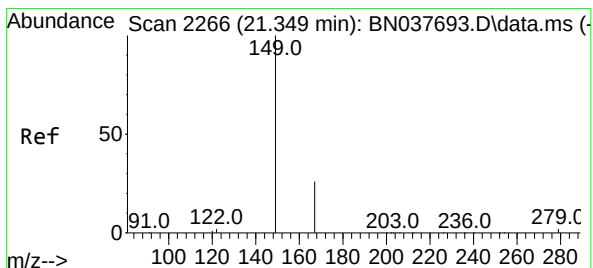
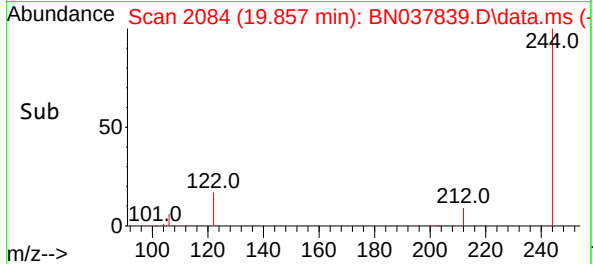
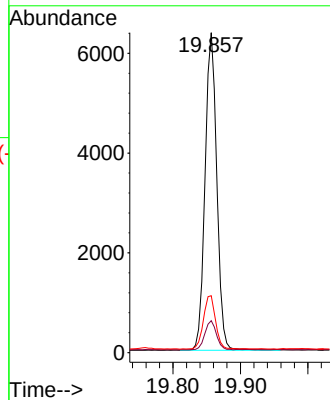
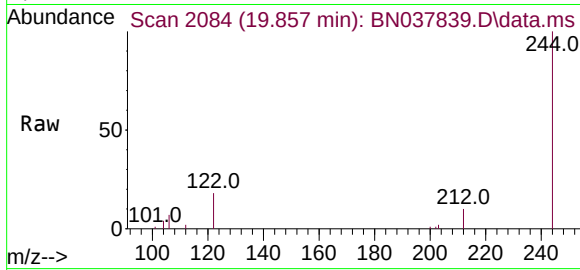




#31
Terphenyl-d14
Concen: 0.400 ng
RT: 19.857 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037839.D
Acq: 20 Sep 2025 06:50

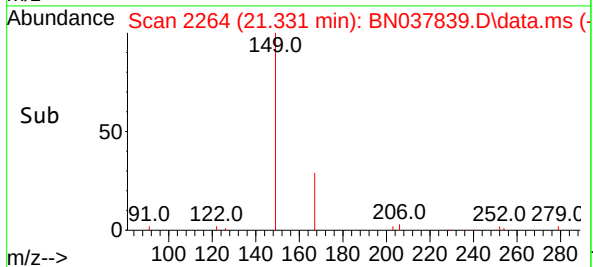
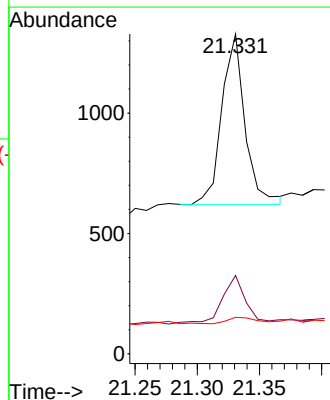
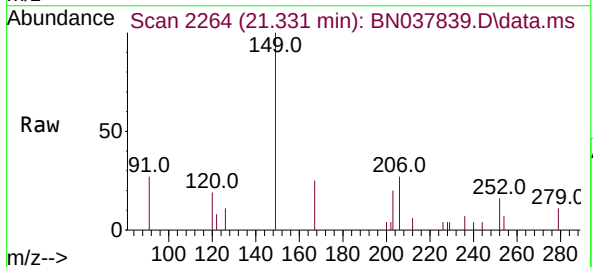
Instrument :
BNA_N
ClientSampleId :
TT101D-20250915

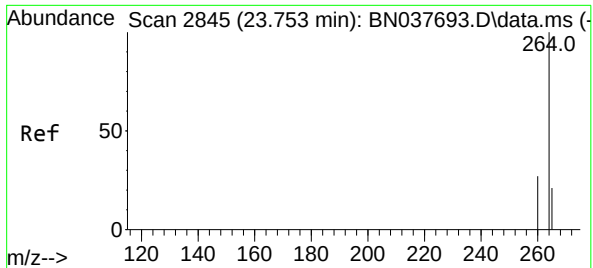
Tgt Ion:244	Resp:	7680
Ion Ratio	Lower	Upper
244	100	
212	10.0	7.5 11.3
122	17.8	13.2 19.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.094 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037839.D
Acq: 20 Sep 2025 06:50

Tgt Ion:149	Resp:	919
Ion Ratio	Lower	Upper
149	100	
167	29.2	20.8 31.2
279	4.5	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: BN037839.D

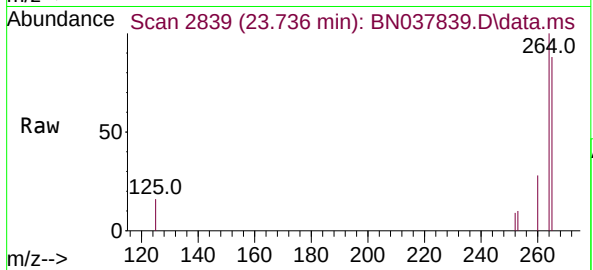
Acq: 20 Sep 2025 06:50

Instrument :

BNA_N

ClientSampleId :

TT101D-20250915



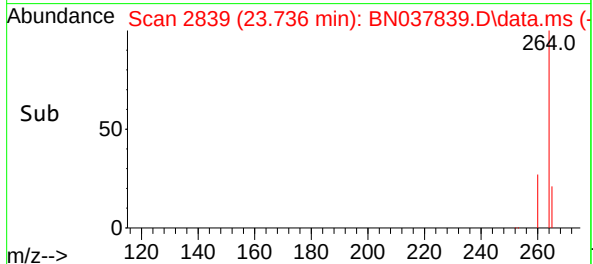
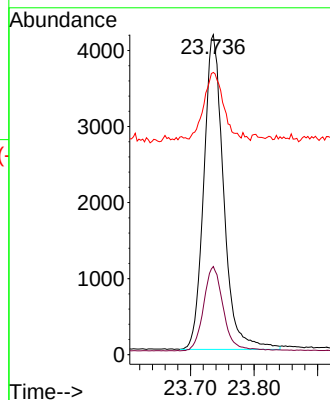
Tgt Ion:264 Resp: 8977

Ion Ratio Lower Upper

264 100

260 27.5 21.8 32.8

265 88.2 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/15/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/17/25
Client Sample ID:	RE135D3-20250915	SDG No.:	Q3127
Lab Sample ID:	Q3127-11	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
BN037840.D	1	09/18/25 11:35	09/20/25 07:26	PB169743

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.23		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		67%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		80%	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	6080	7.825				
1146-65-2	Naphthalene-d8	16100	10.626				
15067-26-2	Acenaphthene-d10	6780	14.484				
1517-22-2	Phenanthrene-d10	11700	17.223				
1719-03-5	Chrysene-d12	9650	21.402				
1520-96-3	Perylene-d12	9000	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 : BN037840.D
Acq On : 20 Sep 2025 07:26
Operator : RC/JU
Sample : Q3127-11
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE135D3-20250915

Quant Time: Sep 22 00:36:19 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

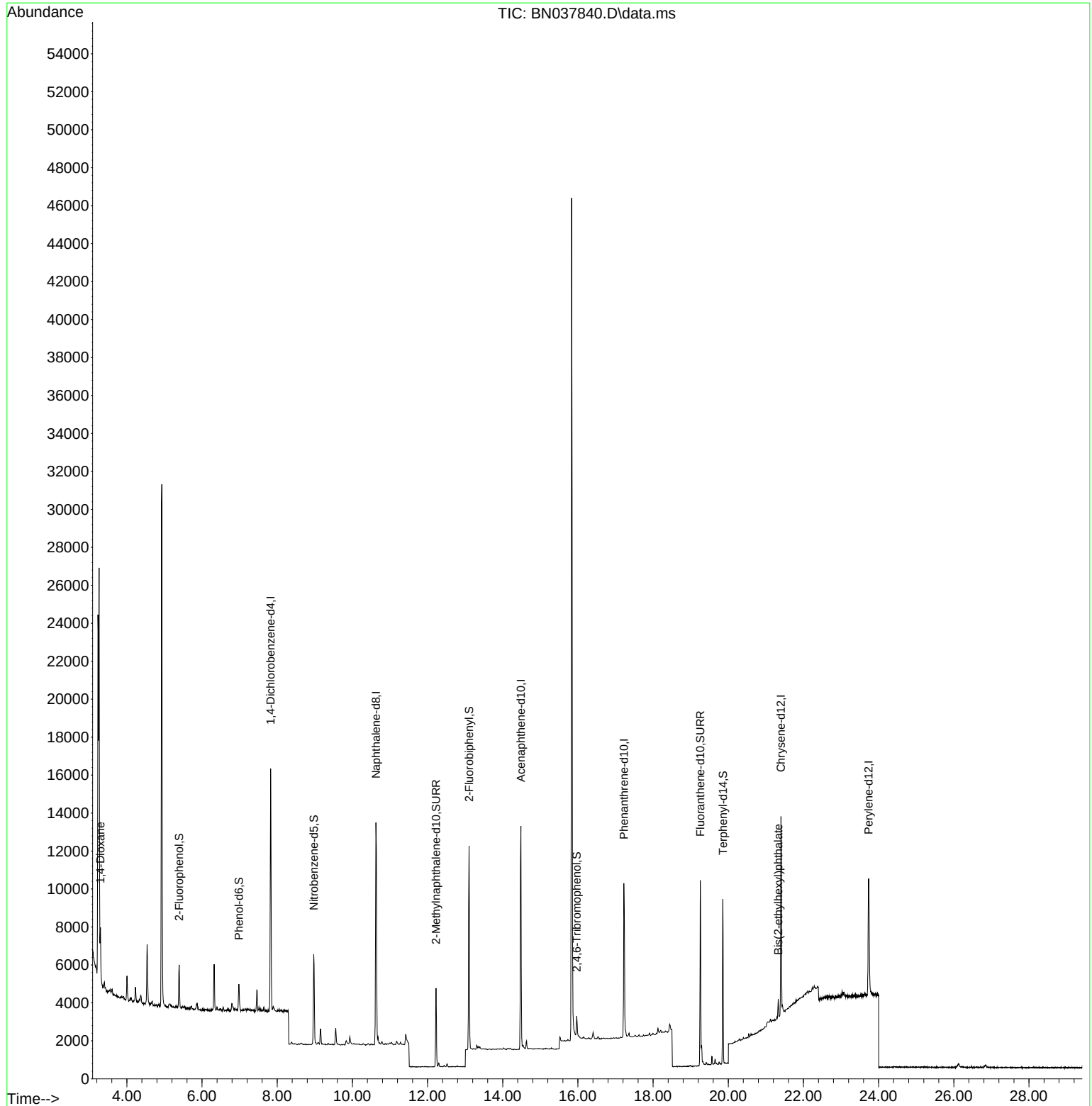
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	6083	0.400	ng	-0.01
7) Naphthalene-d8	10.626	136	16094	0.400	ng	-0.02
13) Acenaphthene-d10	14.484	164	6777	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	11688	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	9654	0.400	ng	#-0.02
35) Perylene-d12	23.736	264	8997	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1761	0.126	ng	0.00
5) Phenol-d6	6.980	99	1293	0.071	ng	0.00
8) Nitrobenzene-d5	8.971	82	3819	0.324	ng	-0.02
11) 2-Methylnaphthalene-d10	12.227	152	5700	0.267	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	705	0.399	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	9080	0.320	ng	-0.01
27) Fluoranthene-d10	19.257	212	10571	0.360	ng	-0.01
31) Terphenyl-d14	19.856	244	8106	0.414	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	1467	0.232	ng	# 86
34) Bis(2-ethylhexyl)phtha...	21.331	149	1058	0.106	ng	# 91

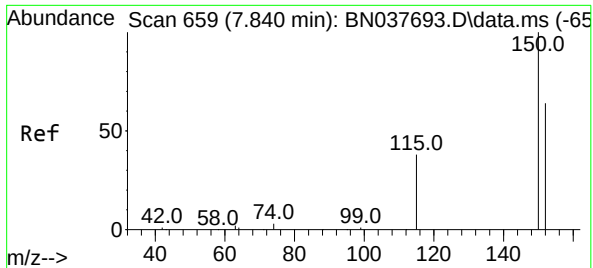
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037840.D
Acq On : 20 Sep 2025 07:26
Operator : RC/JU
Sample : Q3127-11
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE135D3-20250915

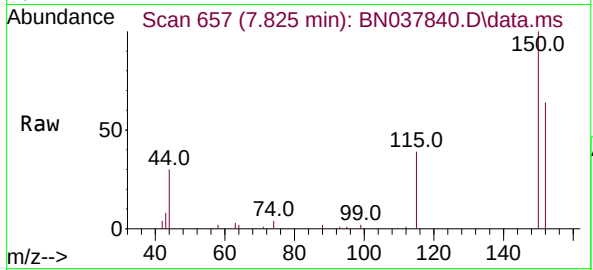
Quant Time: Sep 22 00:36:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



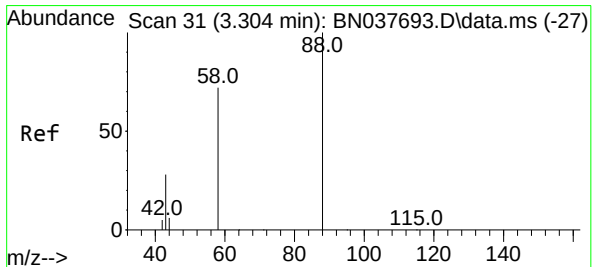
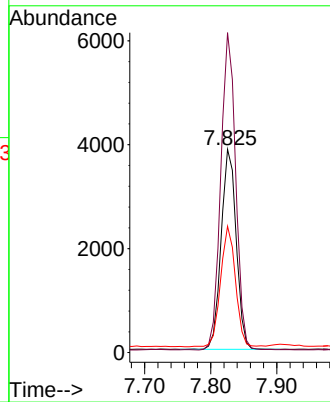
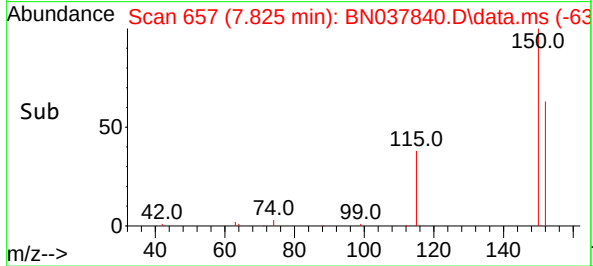


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN037840.D
Acq: 20 Sep 2025 07:26

Instrument :
BNA_N
ClientSampleId :
RE135D3-20250915

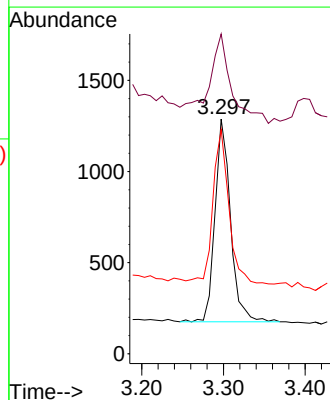
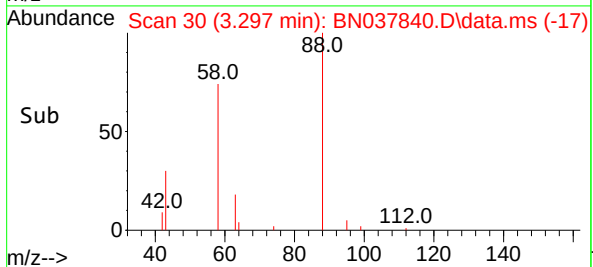
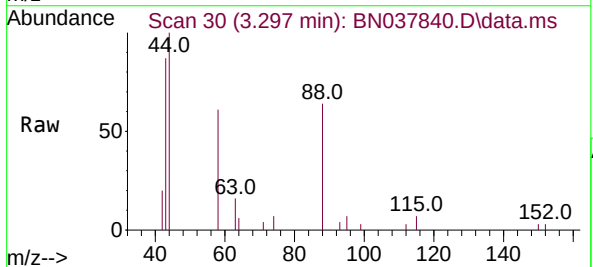


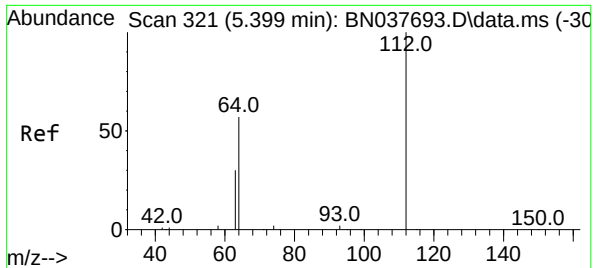
Tgt Ion: 152 Resp: 6083
Ion Ratio Lower Upper
152 100
150 157.4 124.5 186.7
115 62.1 49.2 73.8



#2
1,4-Dioxane
Concen: 0.232 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037840.D
Acq: 20 Sep 2025 07:26

Tgt Ion: 88 Resp: 1467
Ion Ratio Lower Upper
88 100
43 57.4 26.8 40.2#
58 78.6 61.9 92.9

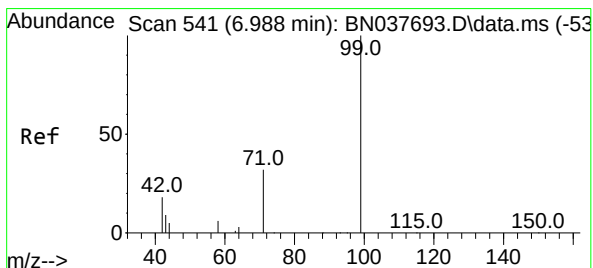
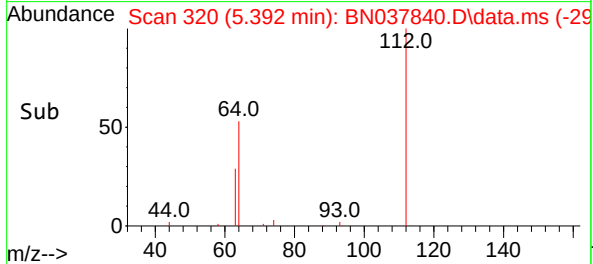
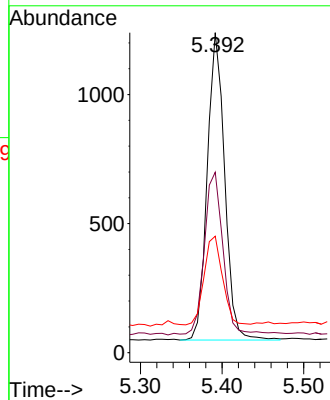
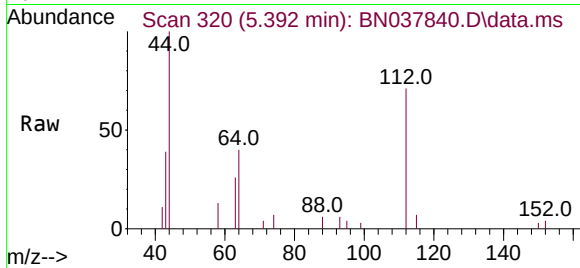




#4
2-Fluorophenol
Concen: 0.126 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037840.D
Acq: 20 Sep 2025 07:26

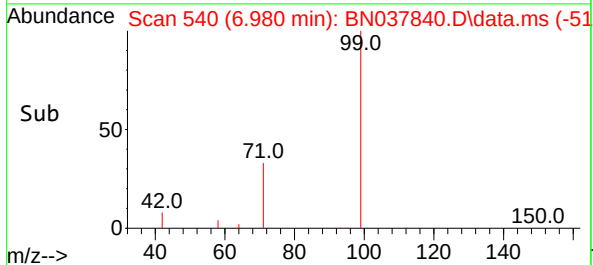
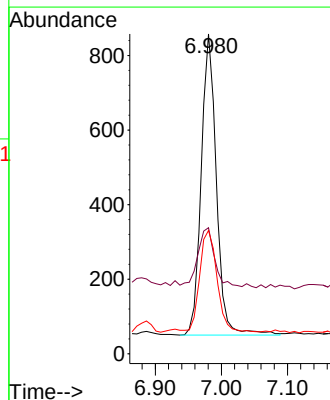
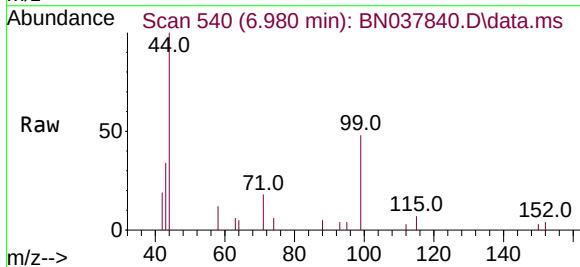
Instrument :
BNA_N
ClientSampleId :
RE135D3-20250915

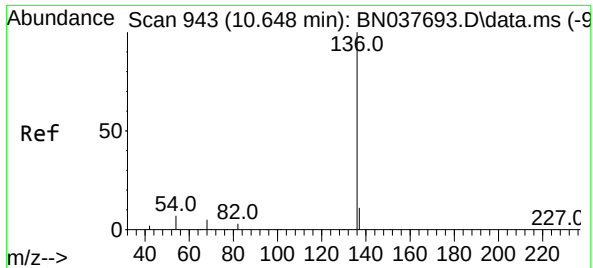
Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.5	44.9	67.3
63	31.3	24.7	37.1



#5
Phenol-d6
Concen: 0.071 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037840.D
Acq: 20 Sep 2025 07:26

Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.2	16.6	24.8
71	39.2	26.7	40.1

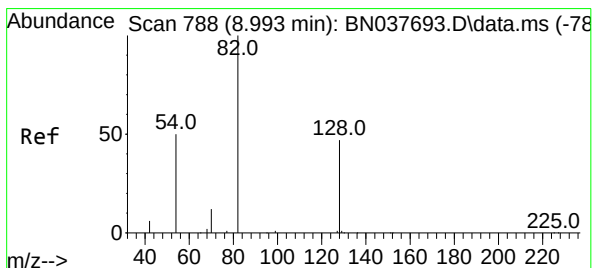
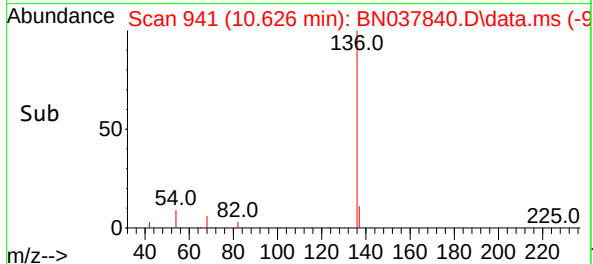
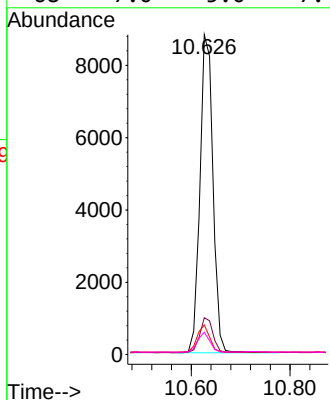
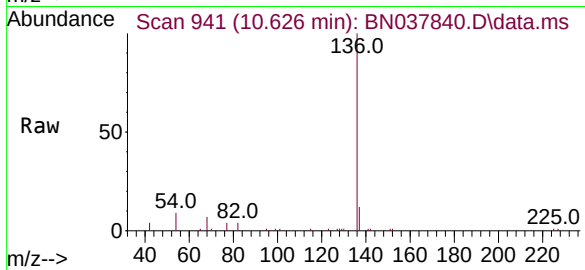




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. -0.021 min
Lab File: BN037840.D
Acq: 20 Sep 2025 07:26

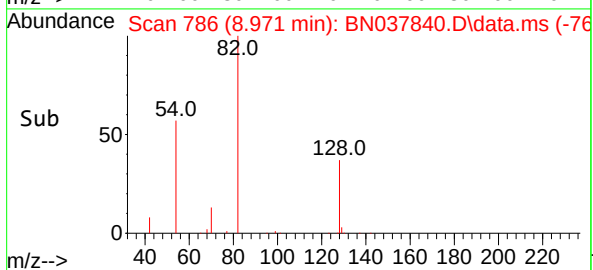
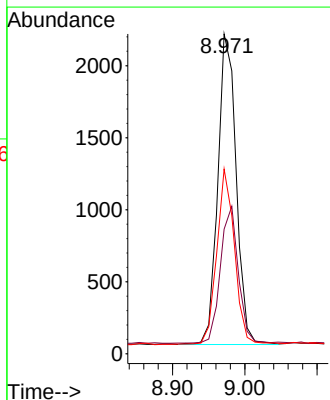
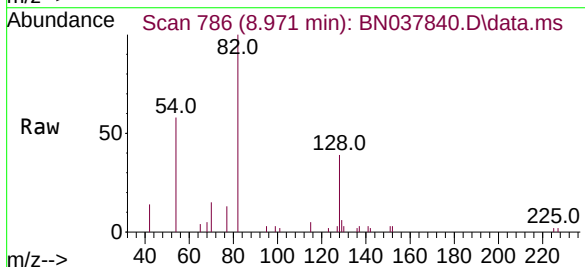
Instrument :
BNA_N
ClientSampleId :
RE135D3-20250915

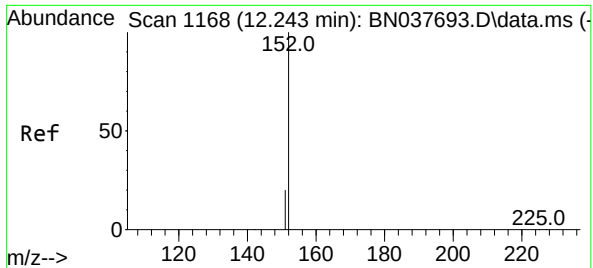
Tgt Ion:136	Resp:	16094
Ion Ratio	Lower	Upper
136	100	
137	11.5	9.1 13.7
54	9.3	6.3 9.5
68	7.0	5.0 7.4



#8
Nitrobenzene-d5
Concen: 0.324 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.021 min
Lab File: BN037840.D
Acq: 20 Sep 2025 07:26

Tgt Ion: 82	Resp:	3819
Ion Ratio	Lower	Upper
82	100	
128	38.9	38.3 57.5
54	57.8	41.4 62.2

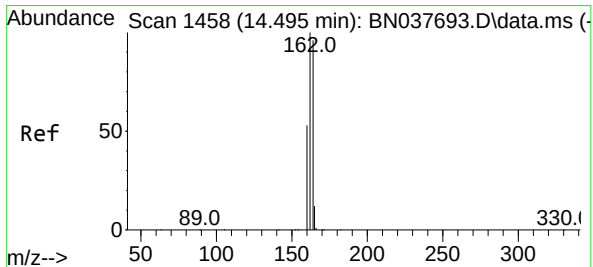
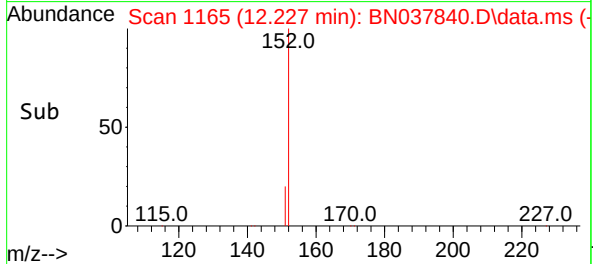
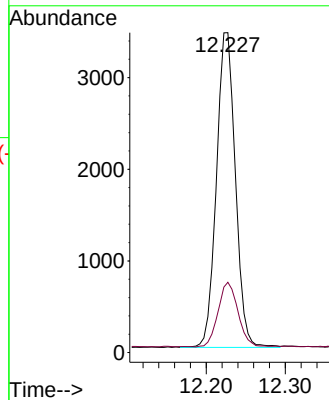
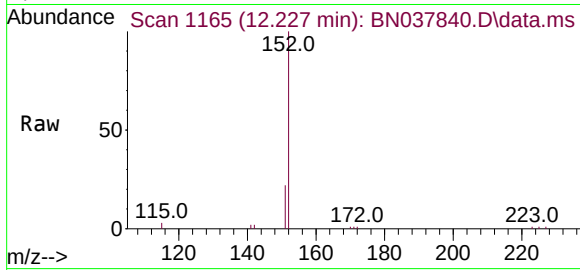




#11
2-Methylnaphthalene-d10
Concen: 0.267 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037840.D
Acq: 20 Sep 2025 07:26

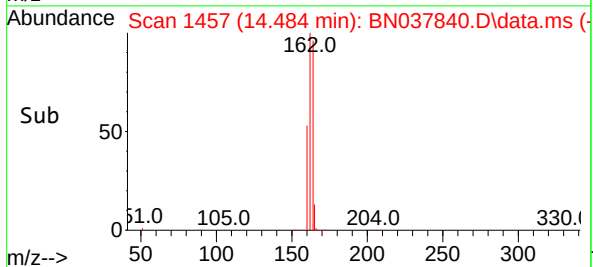
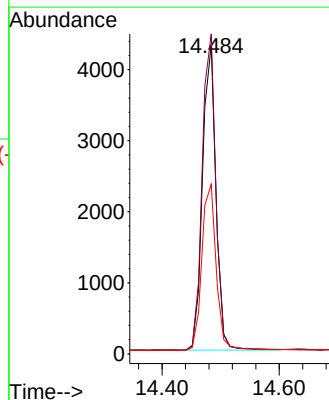
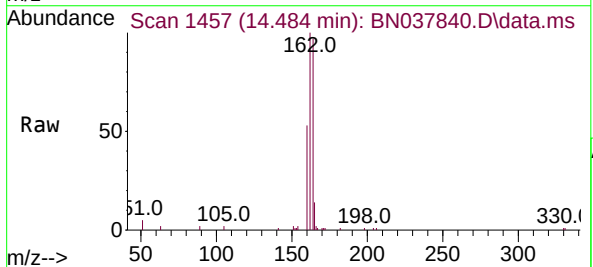
Instrument :
BNA_N
ClientSampleId :
RE135D3-20250915

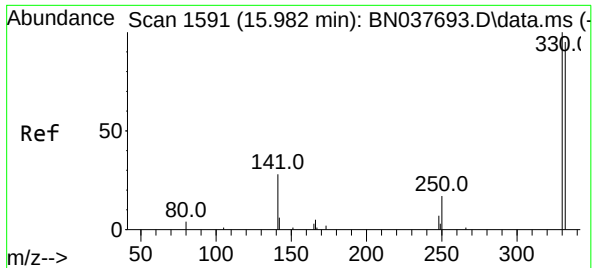
Tgt Ion:152 Resp: 5700
Ion Ratio Lower Upper
152 100
151 21.7 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037840.D
Acq: 20 Sep 2025 07:26

Tgt Ion:164 Resp: 6777
Ion Ratio Lower Upper
164 100
162 103.6 83.1 124.7
160 54.9 44.3 66.5

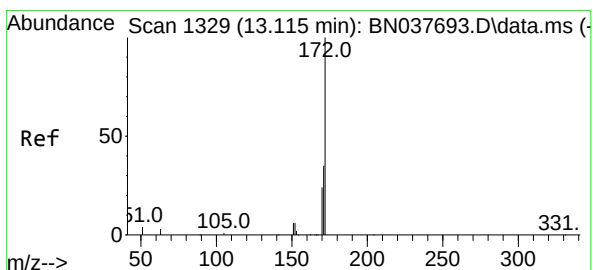
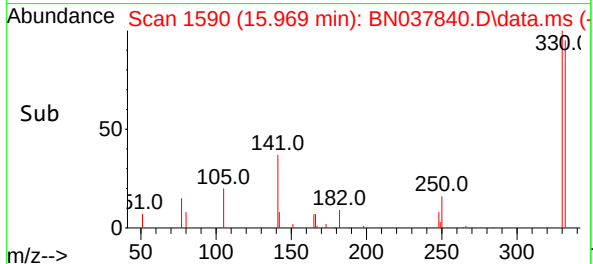
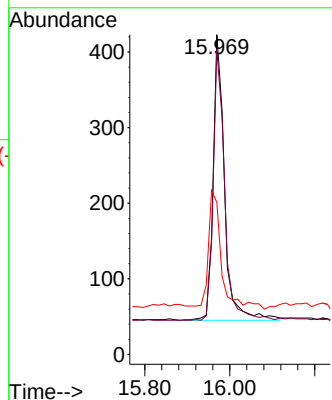
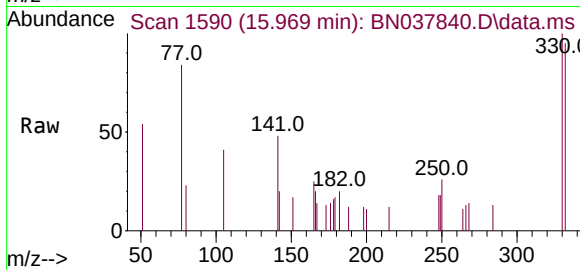




#14
2,4,6-Tribromophenol
Concen: 0.399 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037840.D
Acq: 20 Sep 2025 07:26

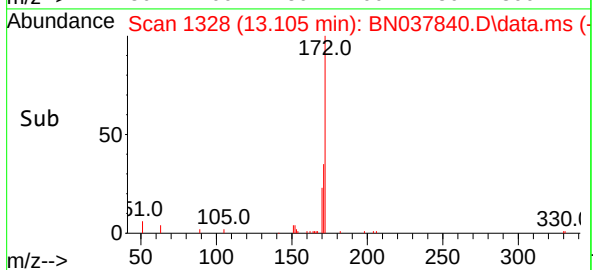
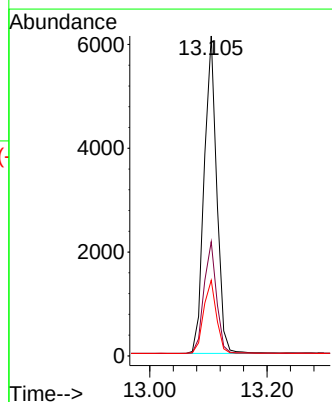
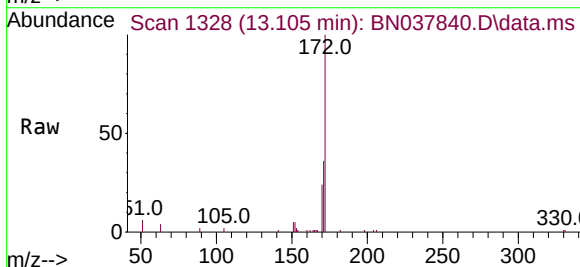
Instrument :
BNA_N
ClientSampleId :
RE135D3-20250915

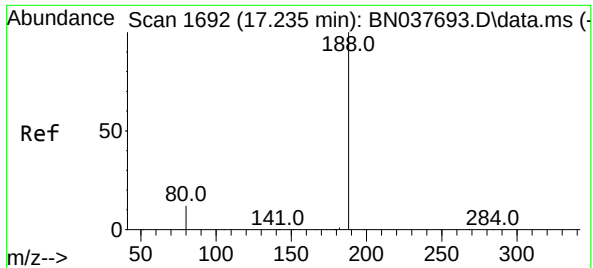
Tgt Ion	330	Resp	705
Ion Ratio	100		
Lower	75.3		
Upper	112.9		



#15
2-Fluorobiphenyl
Concen: 0.320 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037840.D
Acq: 20 Sep 2025 07:26

Tgt Ion	172	Resp	9080
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower	28.6		
Upper	43.0		

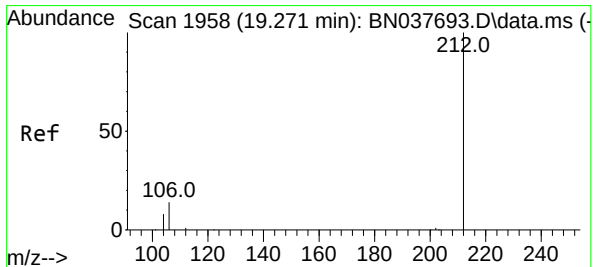
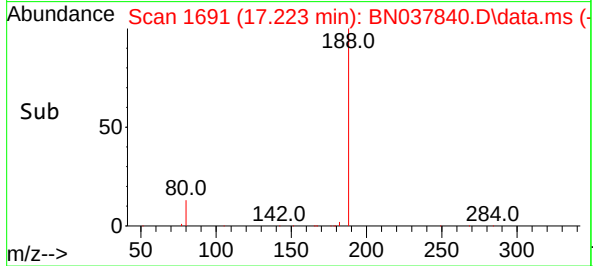
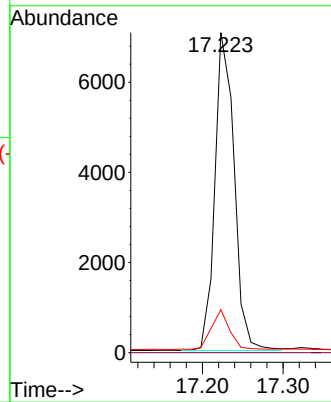
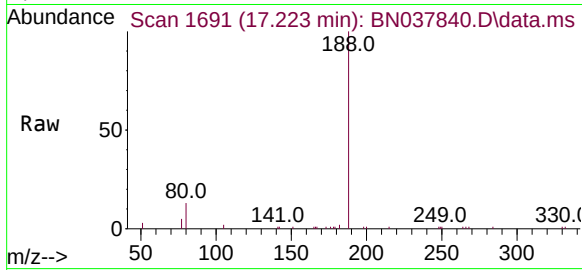




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1692
Delta R.T. -0.013 min
Lab File: BN037840.D
Acq: 20 Sep 2025 07:26

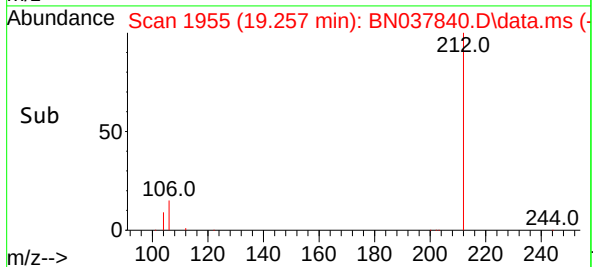
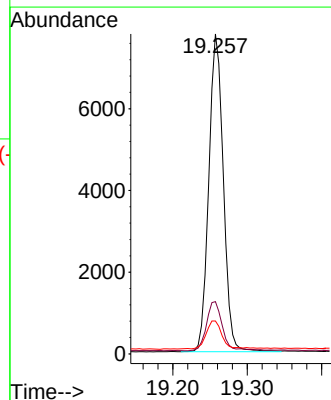
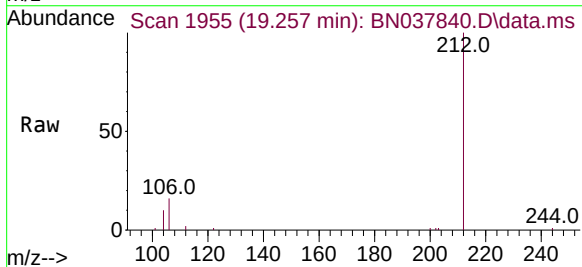
Instrument :
BNA_N
ClientSampleId :
RE135D3-20250915

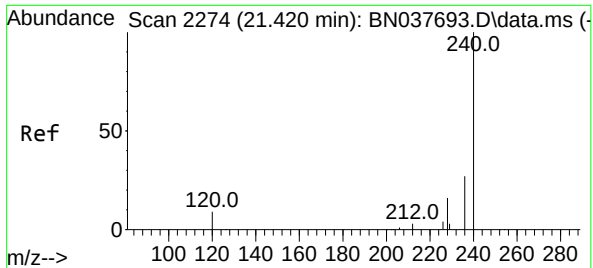
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.4	10.6	15.8



#27
Fluoranthene-d10
Concen: 0.360 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037840.D
Acq: 20 Sep 2025 07:26

Tgt Ion	Ratio	Lower	Upper
212	100		
106	17.0	12.2	18.2
104	9.7	6.9	10.3

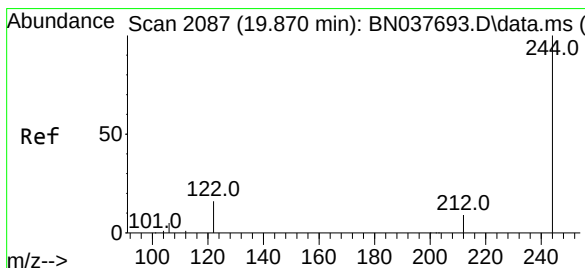
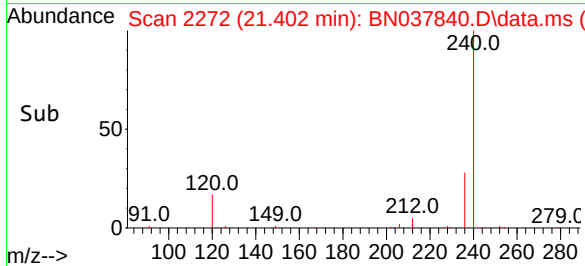
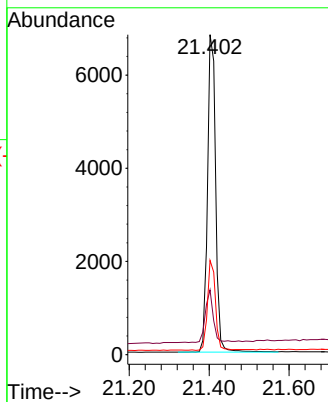
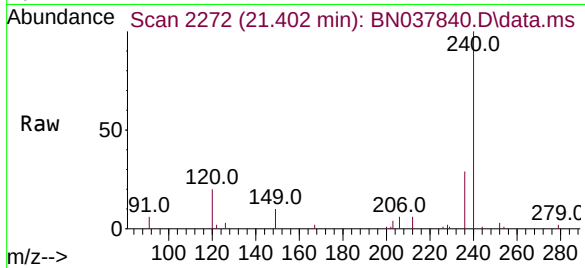




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037840.D
Acq: 20 Sep 2025 07:26

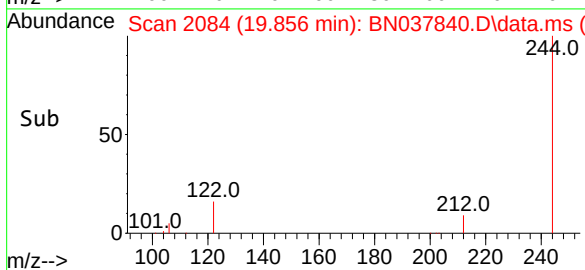
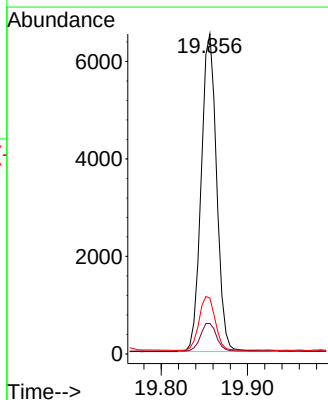
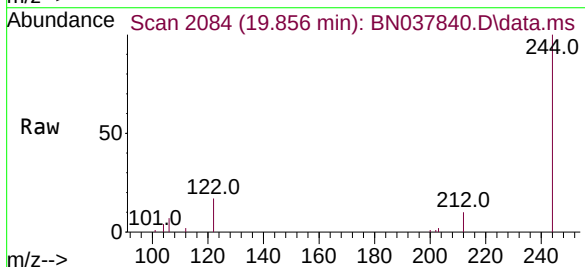
Instrument :
BNA_N
ClientSampleId :
RE135D3-20250915

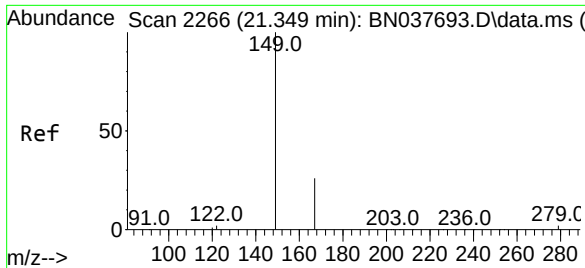
Tgt Ion	Ratio	Lower	Upper
240	100		
120	20.2	9.2	13.8#
236	29.4	22.6	33.8



#31
Terphenyl-d14
Concen: 0.414 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037840.D
Acq: 20 Sep 2025 07:26

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.5	11.3
122	17.5	13.2	19.8

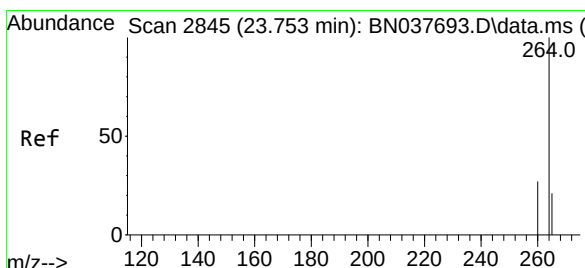
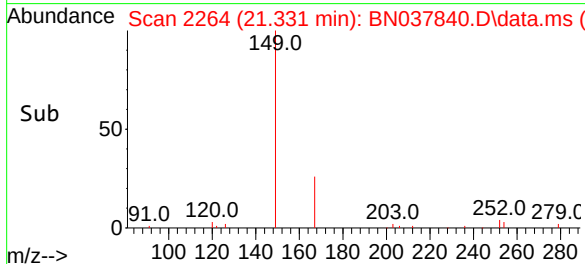
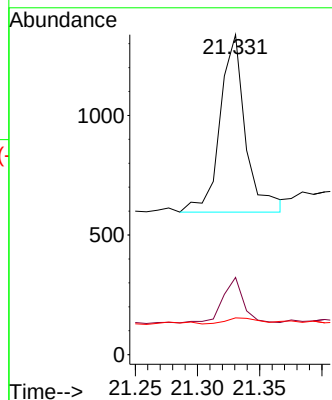
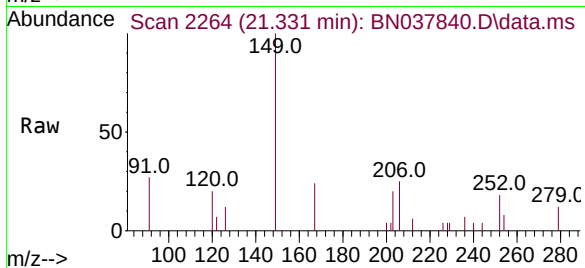




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.106 ng
RT: 21.331 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037840.D
Acq: 20 Sep 2025 07:26

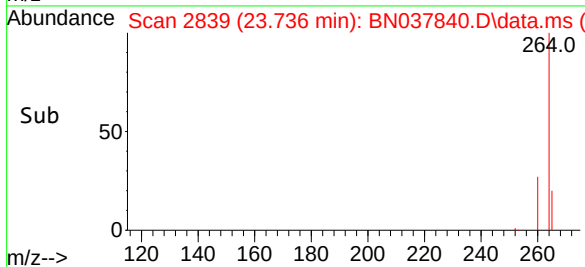
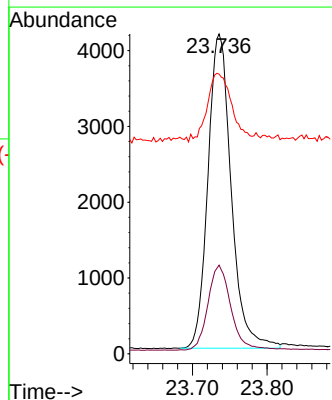
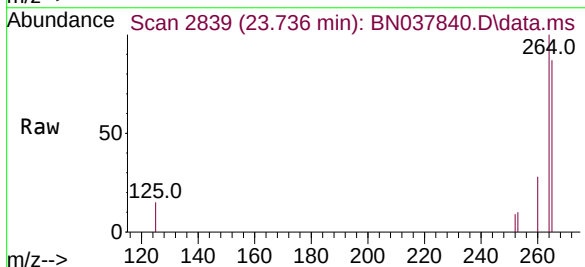
Instrument :
BNA_N
ClientSampleId :
RE135D3-20250915

Tgt Ion:149 Resp: 1058
Ion Ratio Lower Upper
149 100
167 20.5 20.8 31.2#
279 4.3 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: BN037840.D
Acq: 20 Sep 2025 07:26

Tgt Ion:264 Resp: 8997
Ion Ratio Lower Upper
264 100
260 27.7 21.8 32.8
265 87.4 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/16/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/17/25
Client Sample ID:	RE132D7-20250916	SDG No.:	Q3127
Lab Sample ID:	Q3127-12	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
BN037841.D	1	09/18/25 11:35	09/20/25 08:02	PB169743

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.90		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.25		30 - 150		62%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		74%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		102%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5710	7.825				
1146-65-2	Naphthalene-d8	14800	10.626				
15067-26-2	Acenaphthene-d10	6250	14.484				
1517-22-2	Phenanthrene-d10	10900	17.223				
1719-03-5	Chrysene-d12	9430	21.402				
1520-96-3	Perylene-d12	9040	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 : BN037841.D
Acq On : 20 Sep 2025 08:02
Operator : RC/JU
Sample : Q3127-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D7-20250916

Quant Time: Sep 22 00:36:33 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

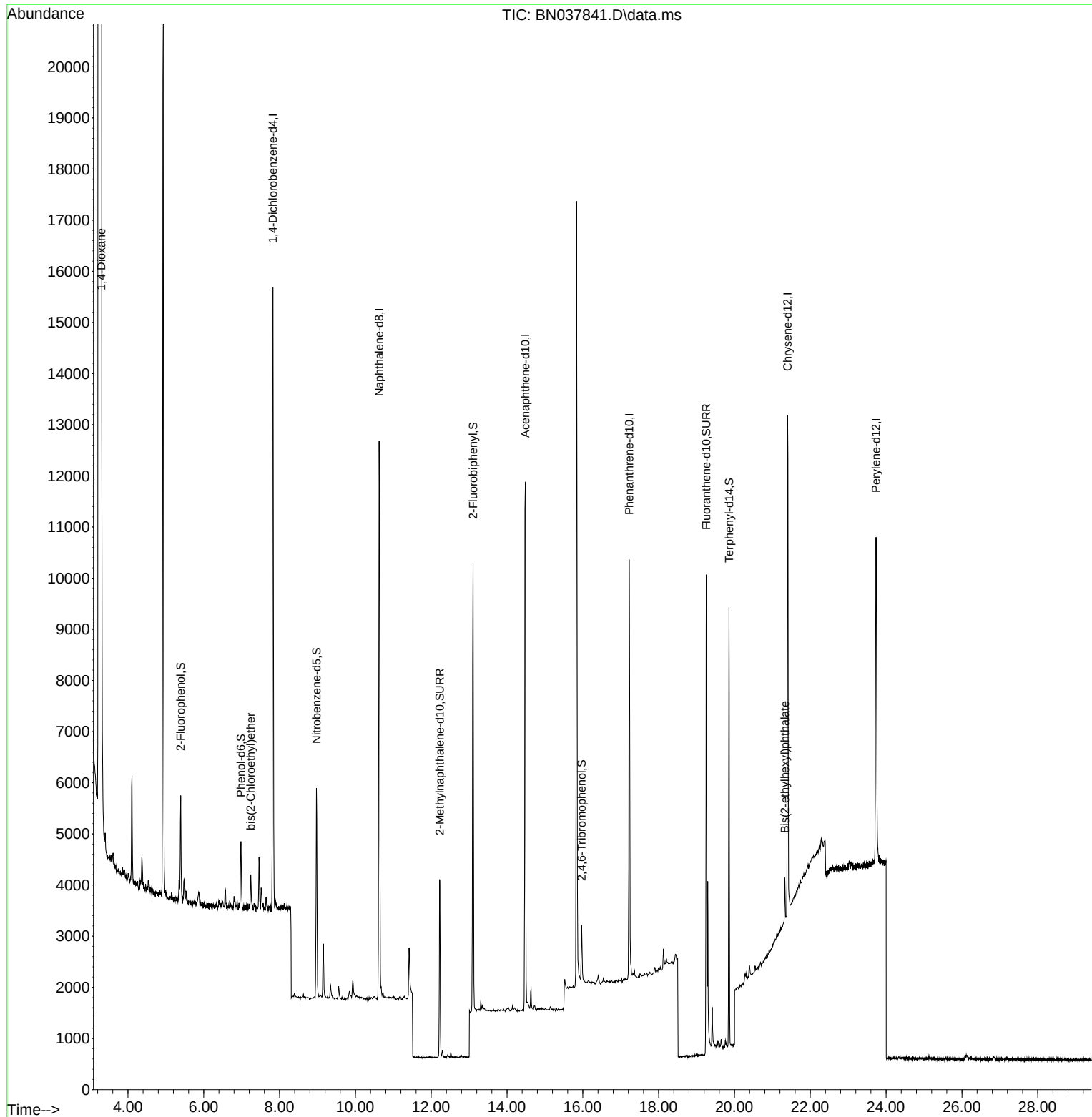
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5705	0.400	ng	-0.01
7) Naphthalene-d8	10.626	136	14784	0.400	ng	#-0.02
13) Acenaphthene-d10	14.484	164	6252	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	10893	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	9428	0.400	ng	#-0.02
35) Perylene-d12	23.736	264	9043	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1552	0.119	ng	0.00
5) Phenol-d6	6.980	99	1144	0.067	ng	0.00
8) Nitrobenzene-d5	8.971	82	3302	0.305	ng	-0.02
11) 2-Methylnaphthalene-d10	12.222	152	4817	0.246	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	665	0.408	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	7767	0.297	ng	-0.01
27) Fluoranthene-d10	19.257	212	10187	0.372	ng	-0.01
31) Terphenyl-d14	19.856	244	7832	0.409	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	17124	2.882	ng	Qvalue 96
6) bis(2-Chloroethyl)ether	7.240	93	456	0.030	ng	90
34) Bis(2-ethylhexyl)phtha...	21.331	149	877	0.090	ng	# 94

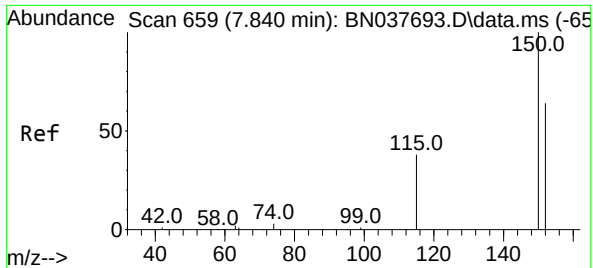
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037841.D
Acq On : 20 Sep 2025 08:02
Operator : RC/JU
Sample : Q3127-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D7-20250916

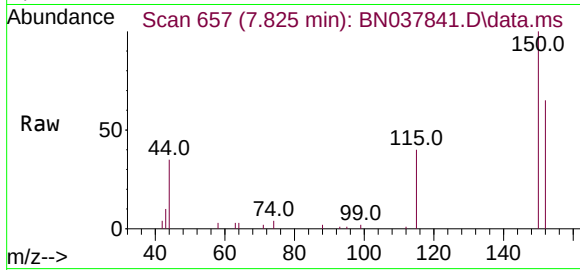
Quant Time: Sep 22 00:36:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



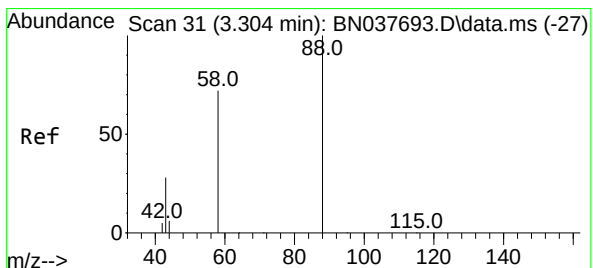
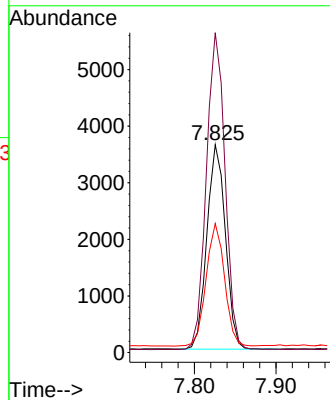
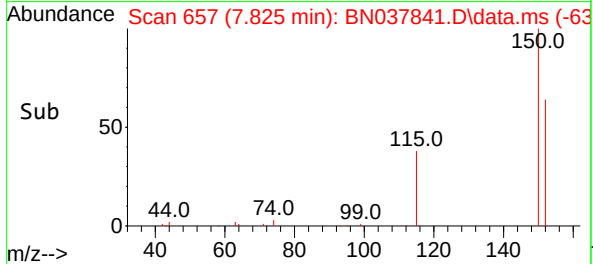


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN037841.D
Acq: 20 Sep 2025 08:02

Instrument :
BNA_N
ClientSampleId :
RE132D7-20250916

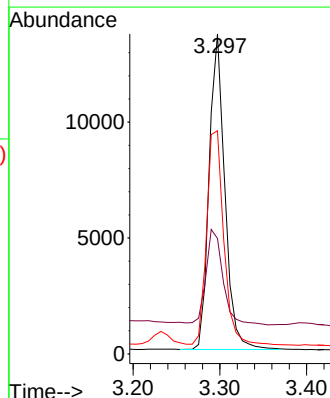
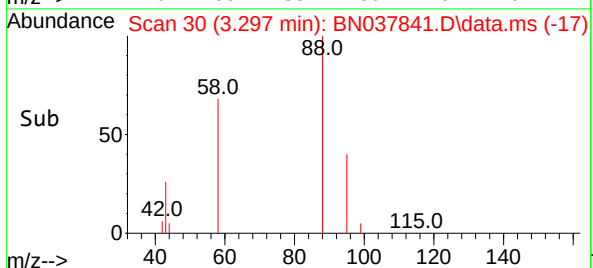
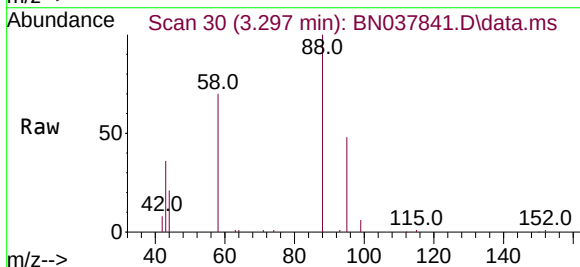


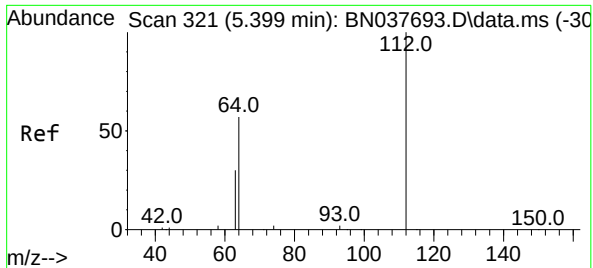
Tgt Ion: 152 Resp: 5705
Ion Ratio Lower Upper
152 100
150 153.9 124.5 186.7
115 62.0 49.2 73.8



#2
1,4-Dioxane
Concen: 2.882 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037841.D
Acq: 20 Sep 2025 08:02

Tgt Ion: 88 Resp: 17124
Ion Ratio Lower Upper
88 100
43 32.4 26.8 40.2
58 73.7 61.9 92.9

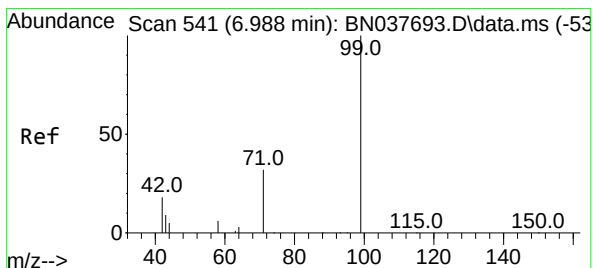
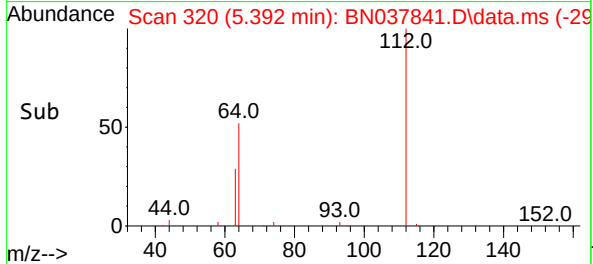
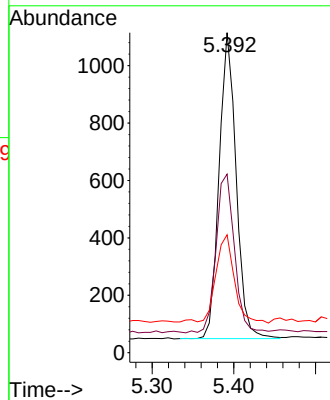
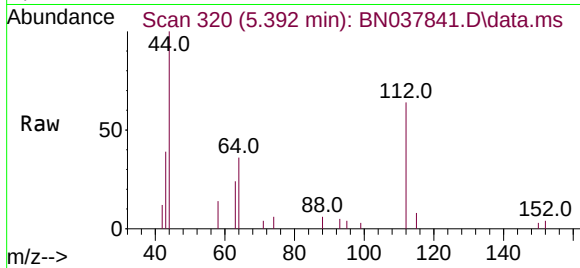




#4
2-Fluorophenol
Concen: 0.119 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037841.D
Acq: 20 Sep 2025 08:02

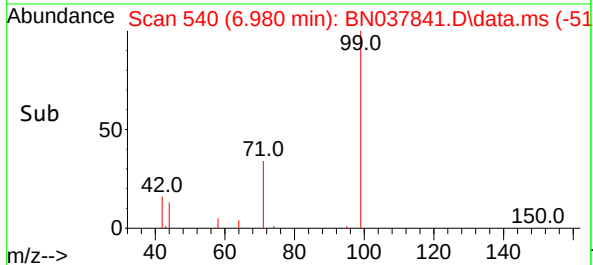
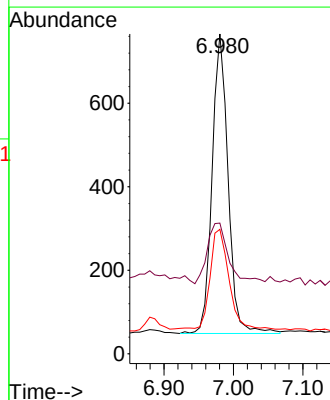
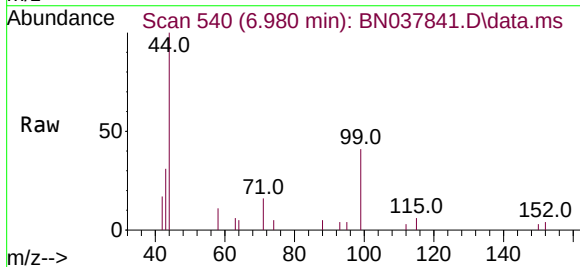
Instrument :
BNA_N
ClientSampleId :
RE132D7-20250916

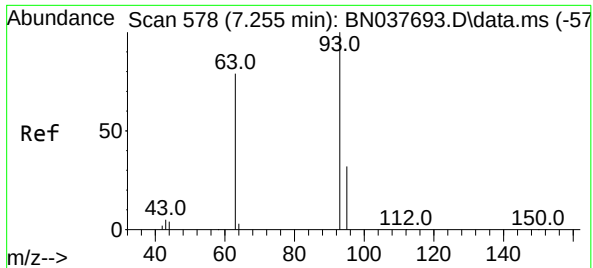
Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.0	44.9	67.3
63	31.8	24.7	37.1



#5
Phenol-d6
Concen: 0.067 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037841.D
Acq: 20 Sep 2025 08:02

Tgt Ion	Ratio	Lower	Upper
99	100		
42	27.1	16.6	24.8#
71	39.9	26.7	40.1

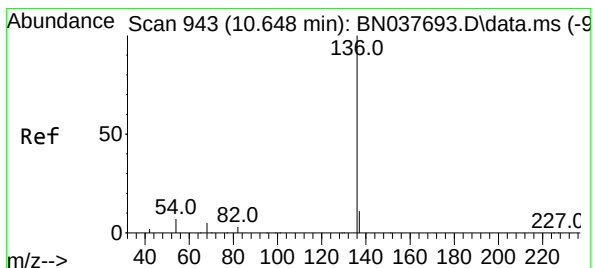
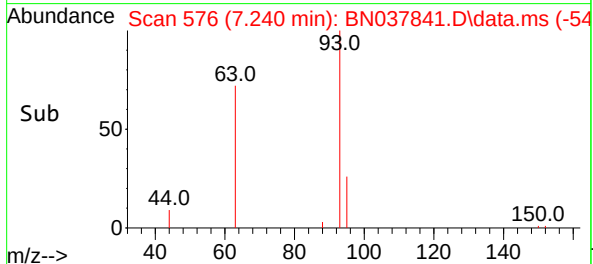
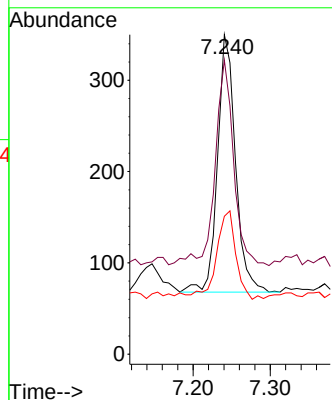
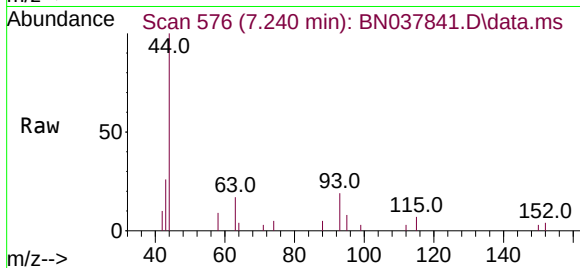




#6
bis(2-Chloroethyl)ether
Concen: 0.030 ng
RT: 7.240 min Scan# 51
Delta R.T. -0.015 min
Lab File: BN037841.D
Acq: 20 Sep 2025 08:02

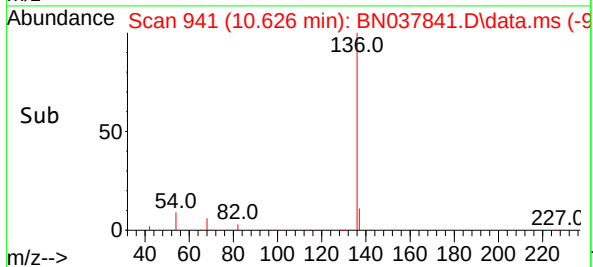
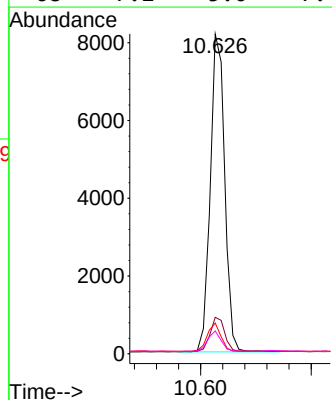
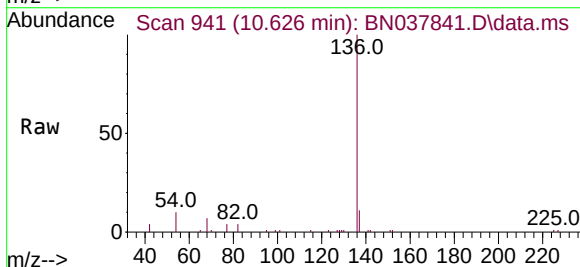
Instrument :
BNA_N
ClientSampleId :
RE132D7-20250916

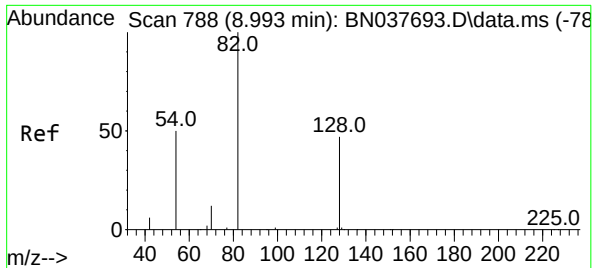
Tgt Ion:	93	Resp:	456
Ion	Ratio	Lower	Upper
93	100		
63	85.5	60.6	90.8
95	36.0	26.0	39.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.021 min
Lab File: BN037841.D
Acq: 20 Sep 2025 08:02

Tgt Ion:	136	Resp:	14784
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	9.6	6.3	9.5
68	7.2	5.0	7.4

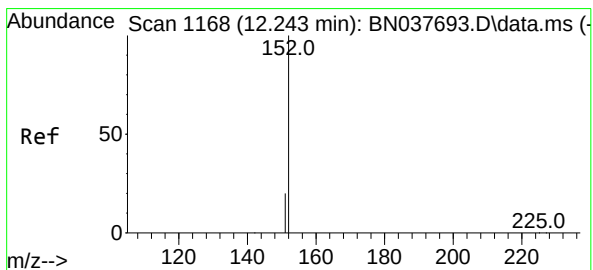
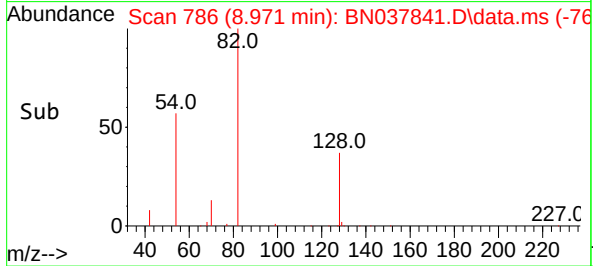
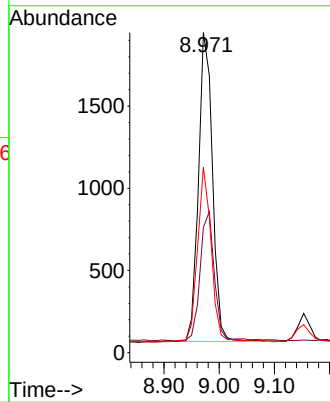
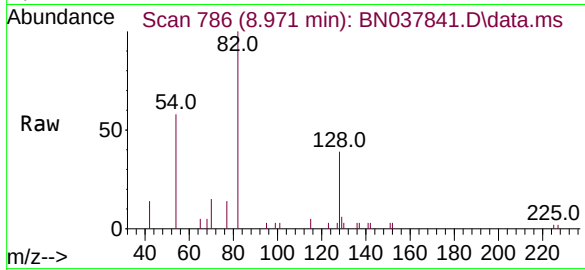




#8
Nitrobenzene-d5
Concen: 0.305 ng
RT: 8.971 min Scan# 788
Delta R.T. -0.021 min
Lab File: BN037841.D
Acq: 20 Sep 2025 08:02

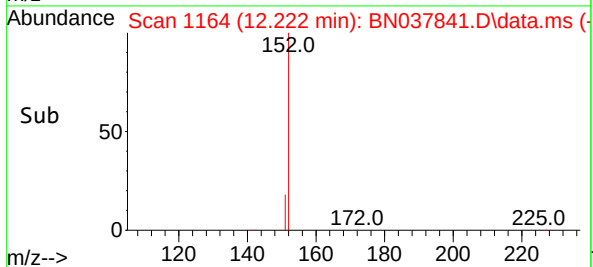
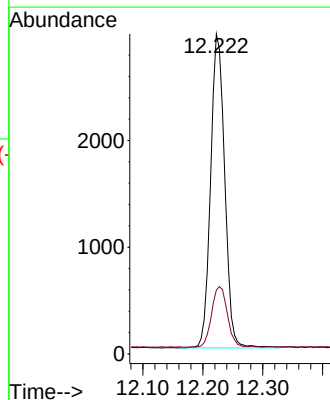
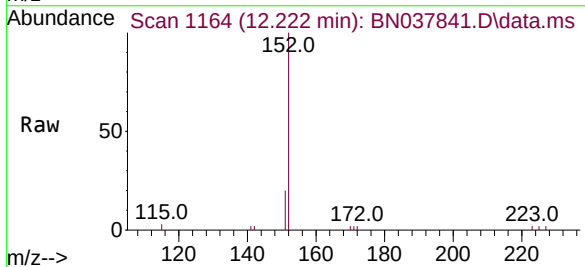
Instrument :
BNA_N
ClientSampleId :
RE132D7-20250916

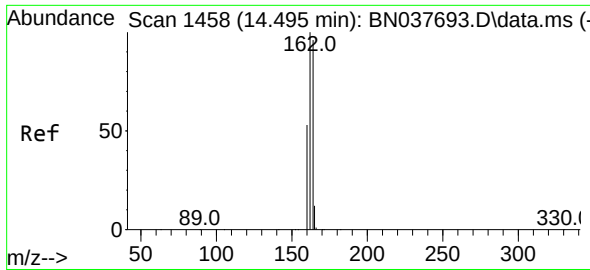
Tgt Ion:	82	Resp:	3302
Ion Ratio	Lower	Upper	
82	100		
128	39.2	38.3	57.5
54	58.0	41.4	62.2



#11
2-Methylnaphthalene-d10
Concen: 0.246 ng
RT: 12.222 min Scan# 1164
Delta R.T. -0.020 min
Lab File: BN037841.D
Acq: 20 Sep 2025 08:02

Tgt Ion:	152	Resp:	4817
Ion Ratio	Lower	Upper	
152	100		
151	21.7	17.0	25.6

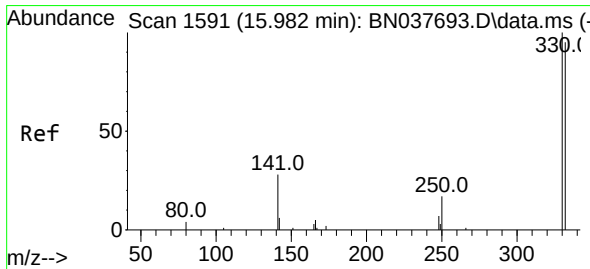
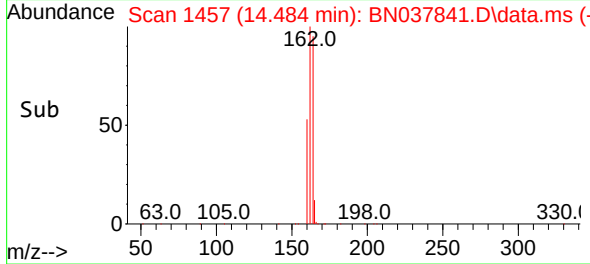
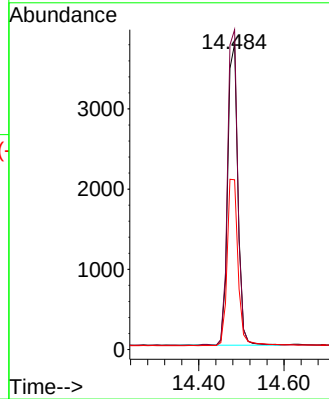
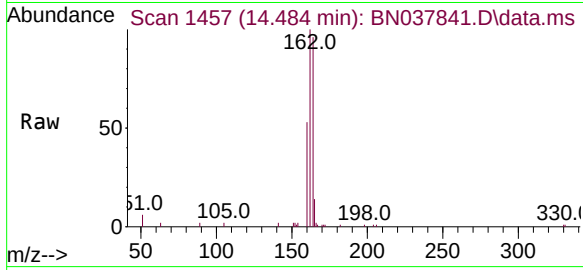




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1458
Delta R.T. -0.011 min
Lab File: BN037841.D
Acq: 20 Sep 2025 08:02

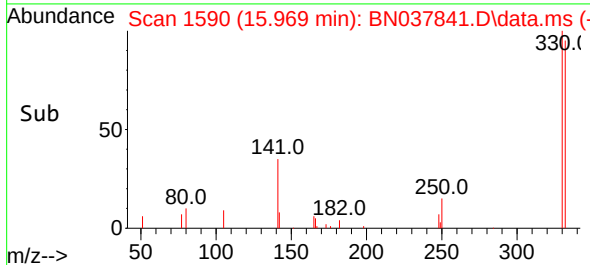
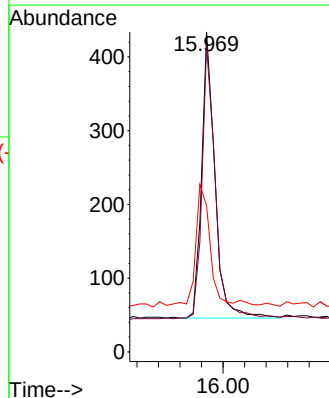
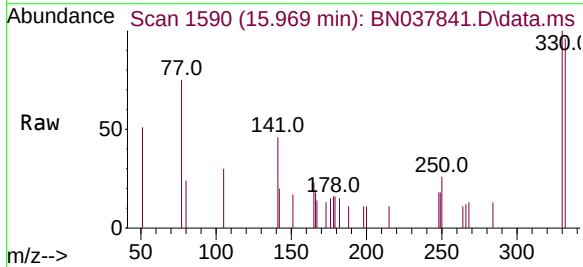
Instrument :
BNA_N
ClientSampleId :
RE132D7-20250916

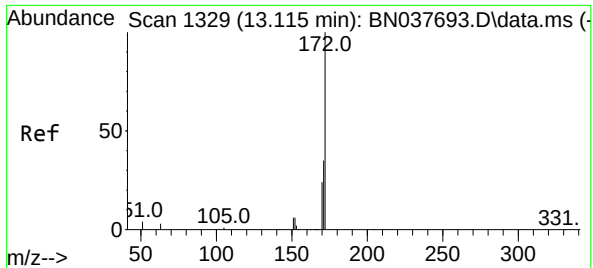
Tgt Ion	164	Resp	6252
Ion Ratio	Lower	Upper	
164	100		
162	104.7	83.1	124.7
160	55.6	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.408 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037841.D
Acq: 20 Sep 2025 08:02

Tgt Ion	330	Resp	665
Ion Ratio	Lower	Upper	
330	100		
332	95.9	75.3	112.9
141	42.6	35.0	52.4

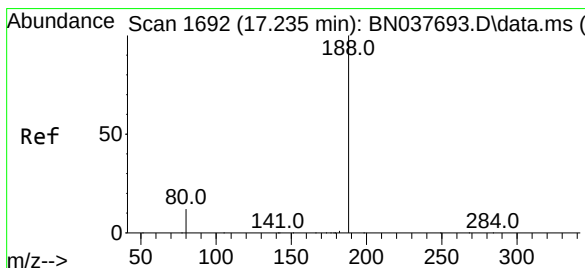
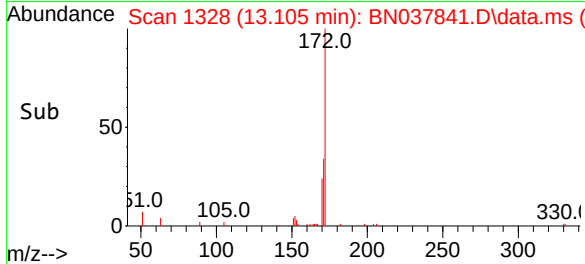
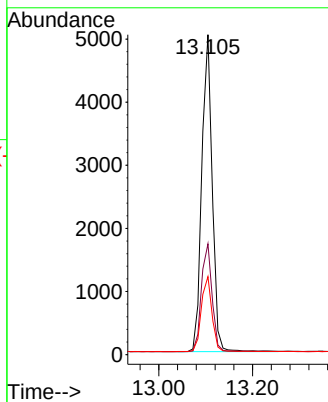
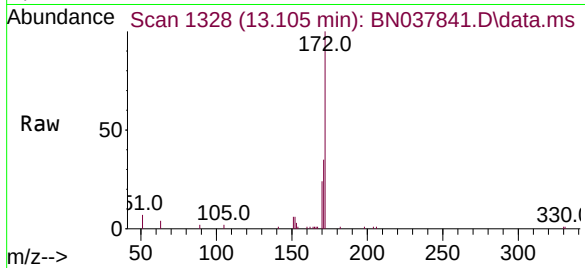




#15
2-Fluorobiphenyl
Concen: 0.297 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037841.D
Acq: 20 Sep 2025 08:02

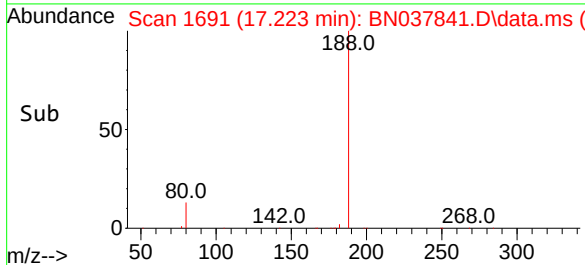
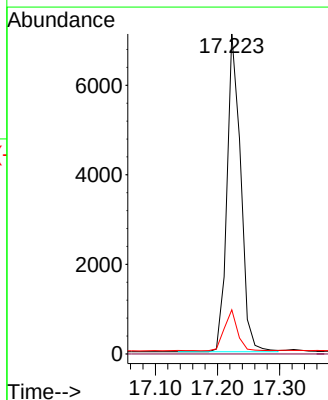
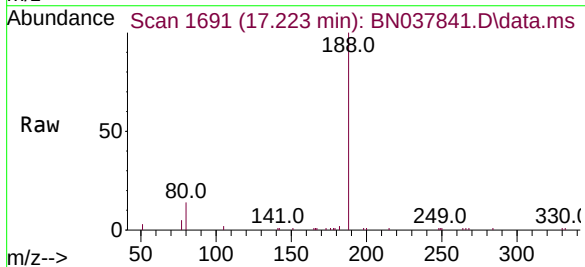
Instrument :
BNA_N
ClientSampleId :
RE132D7-20250916

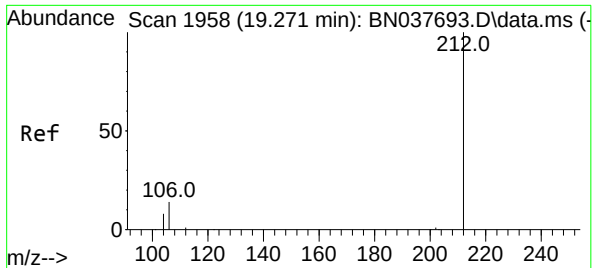
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.6	28.6	43.0
170	24.4	19.8	29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.012 min
Lab File: BN037841.D
Acq: 20 Sep 2025 08:02

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.8	10.6	15.8

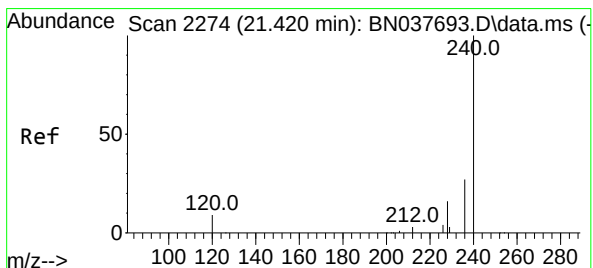
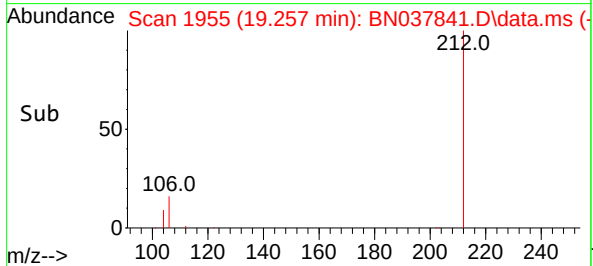
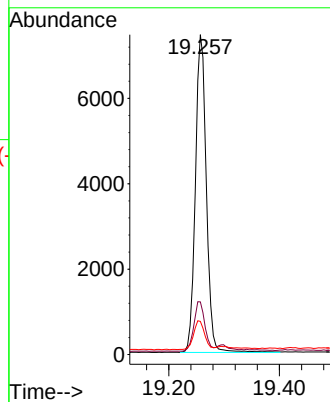
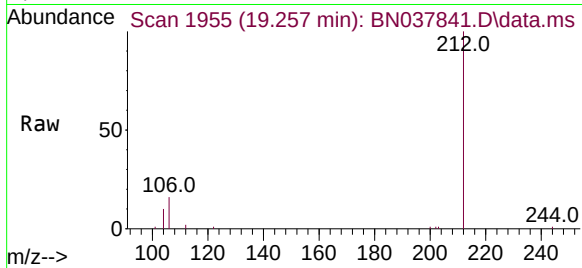




#27
Fluoranthene-d10
Concen: 0.372 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037841.D
Acq: 20 Sep 2025 08:02

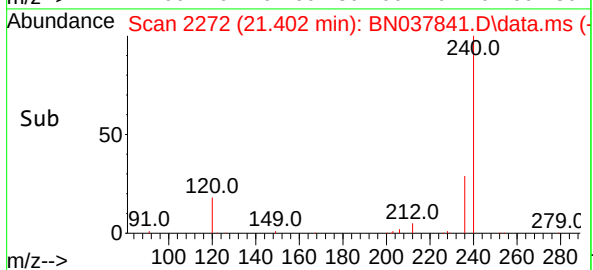
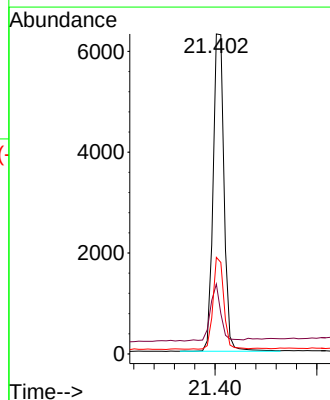
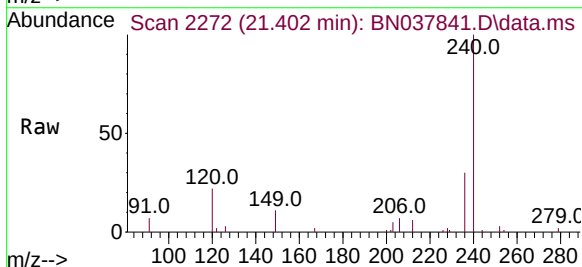
Instrument :
BNA_N
ClientSampleId :
RE132D7-20250916

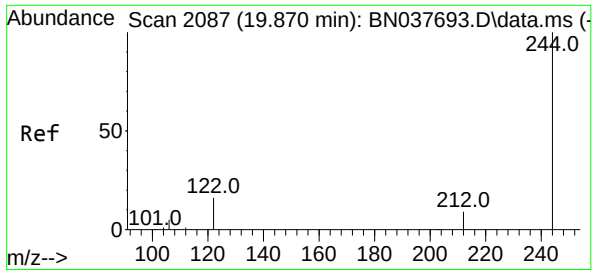
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.7	12.2	18.2
104	9.2	6.9	10.3



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.018 min
Lab File: BN037841.D
Acq: 20 Sep 2025 08:02

Tgt Ion	Ratio	Lower	Upper
240	100		
120	21.8	9.2	13.8#
236	30.2	22.6	33.8

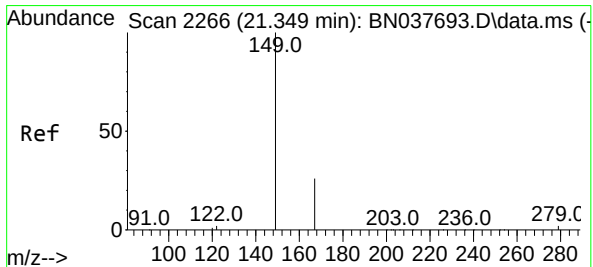
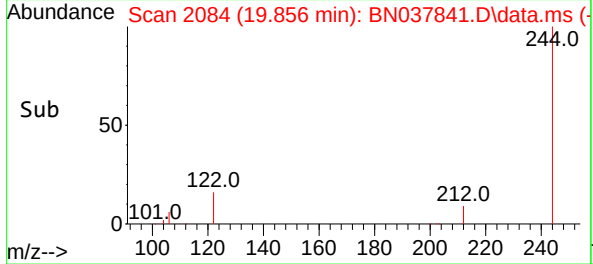
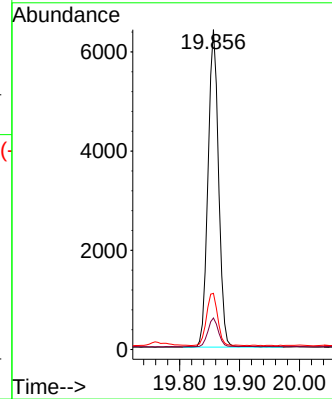
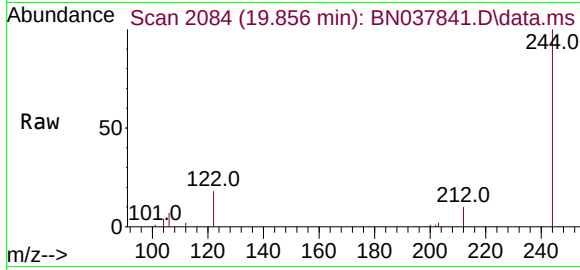




#31
Terphenyl-d14
Concen: 0.409 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037841.D
Acq: 20 Sep 2025 08:02

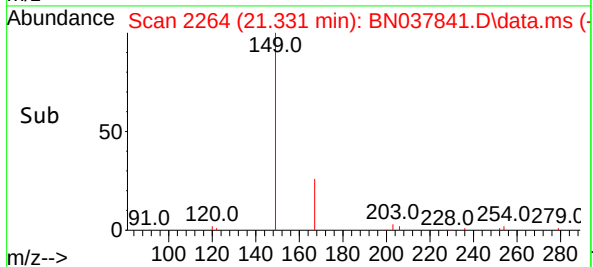
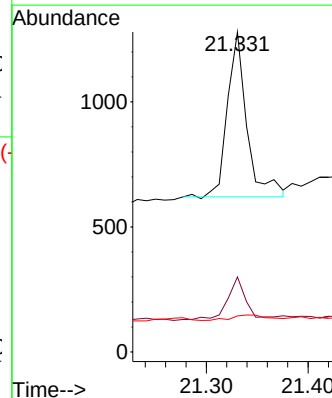
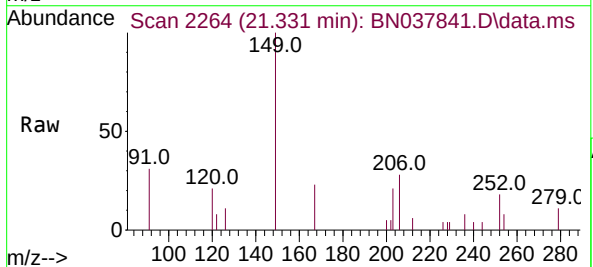
Instrument :
BNA_N
ClientSampleId :
RE132D7-20250916

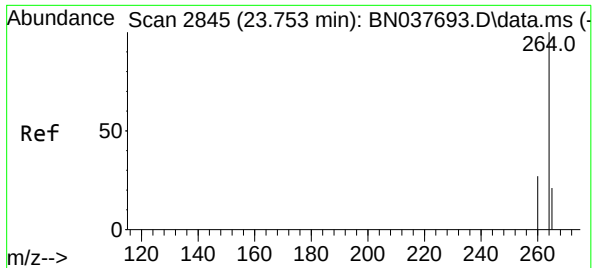
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.9	7.5	11.3
122	17.6	13.2	19.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.090 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037841.D
Acq: 20 Sep 2025 08:02

Tgt Ion	Ratio	Lower	Upper
149	100		
167	23.1	20.8	31.2
279	6.3	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: BN037841.D

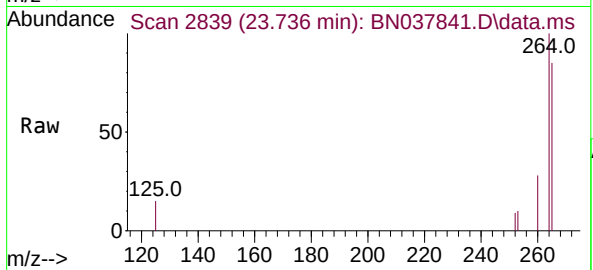
Acq: 20 Sep 2025 08:02

Instrument :

BNA_N

ClientSampleId :

RE132D7-20250916



Tgt Ion:264 Resp: 9043

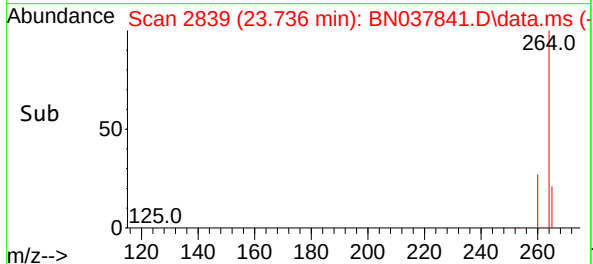
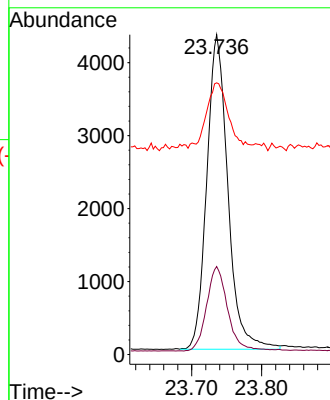
Ion	Ratio	Lower	Upper

264	100		

260	27.5	21.8	32.8

265	84.9	39.4	59.2

#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/16/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/17/25
Client Sample ID:	TT119S1-20250916	SDG No.:	Q3127
Lab Sample ID:	Q3127-13	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
BN037808.D	1	09/18/25 11:35	09/19/25 10:38	PB169743

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	0.30		30 - 150		75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		95%	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		78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		104%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5940	7.833				
1146-65-2	Naphthalene-d8	15800	10.637				
15067-26-2	Acenaphthene-d10	6920	14.484				
1517-22-2	Phenanthrene-d10	12500	17.235				
1719-03-5	Chrysene-d12	10600	21.411				
1520-96-3	Perylene-d12	10200	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 : BN037808.D
Acq On : 19 Sep 2025 10:38
Operator : RC/JU
Sample : Q3127-13
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916

Quant Time: Sep 19 11:10:05 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

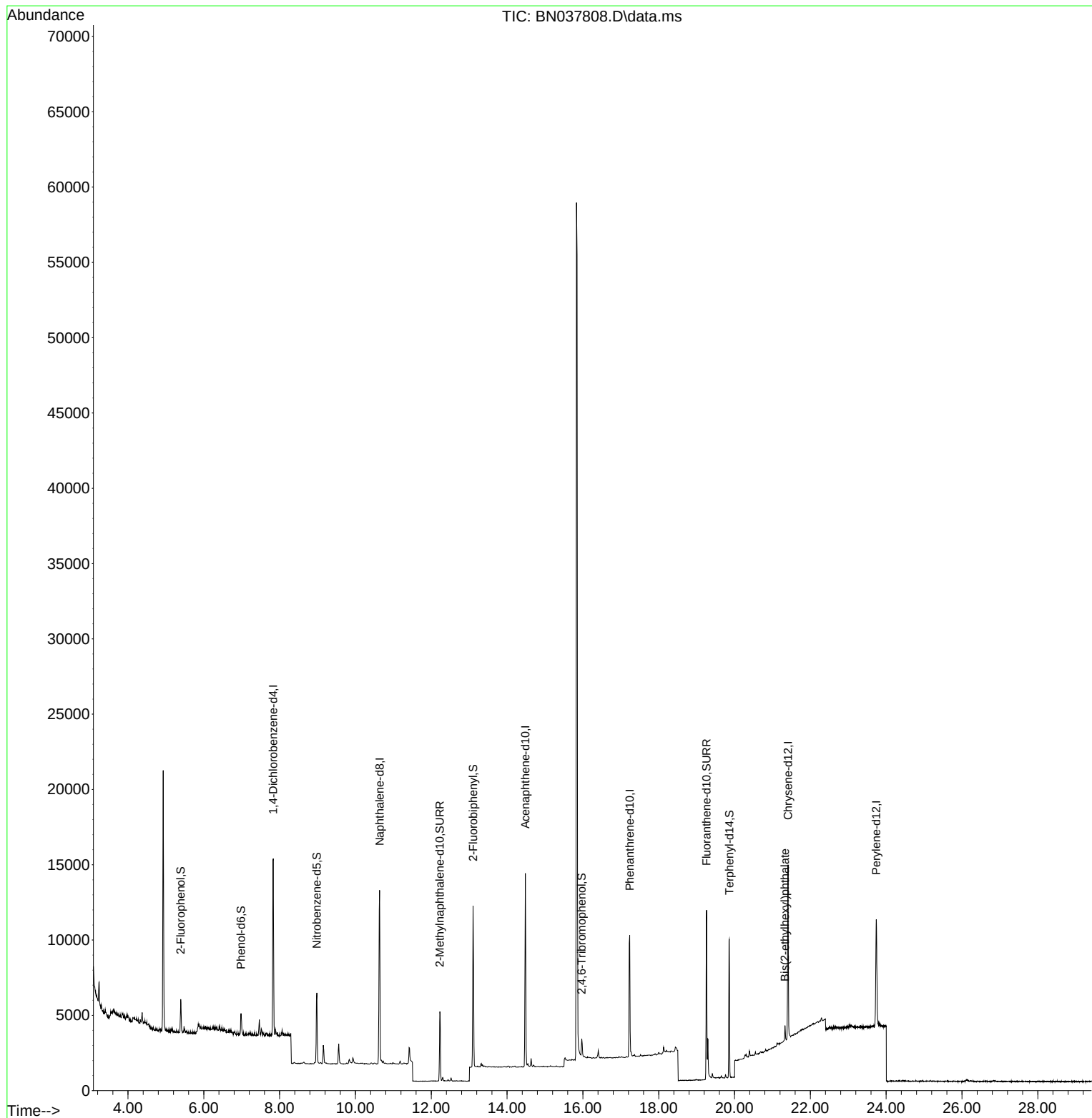
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	5936	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	15845	0.400	ng	#-0.01
13) Acenaphthene-d10	14.484	164	6915	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	12519	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	10592	0.400	ng	0.00
35) Perylene-d12	23.739	264	10201	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1745	0.128	ng	0.00
5) Phenol-d6	6.981	99	1300	0.074	ng	0.00
8) Nitrobenzene-d5	8.982	82	3795	0.327	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	6314	0.301	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	737	0.409	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	8985	0.311	ng	-0.01
27) Fluoranthene-d10	19.262	212	11973	0.381	ng	0.00
31) Terphenyl-d14	19.861	244	8983	0.418	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.331	149	1044	0.095	ng	# 97

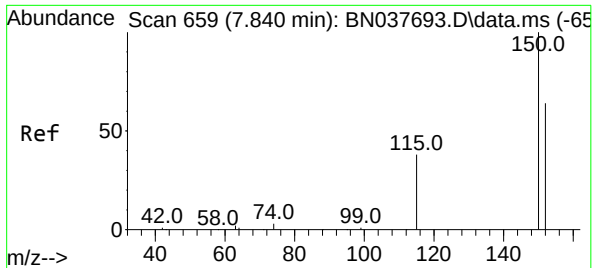
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037808.D
Acq On : 19 Sep 2025 10:38
Operator : RC/JU
Sample : Q3127-13
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916

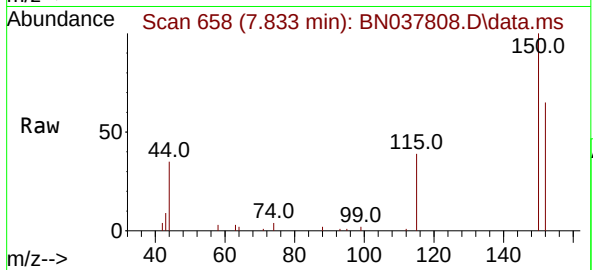
Quant Time: Sep 19 11:10:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



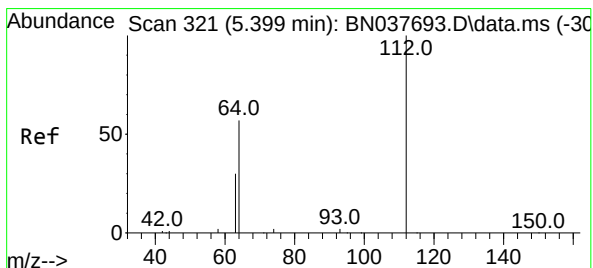
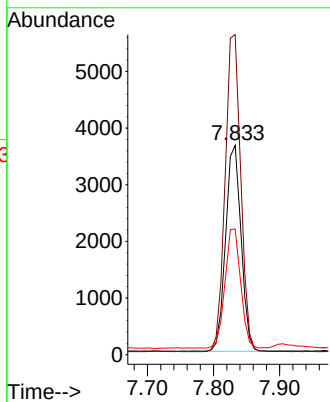
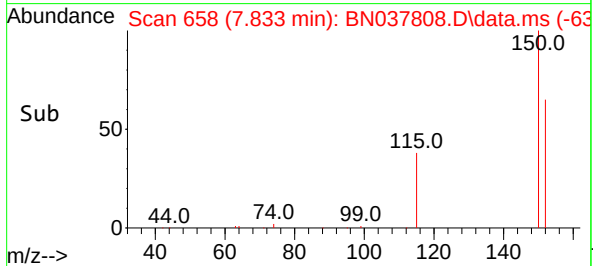


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037808.D
Acq: 19 Sep 2025 10:38

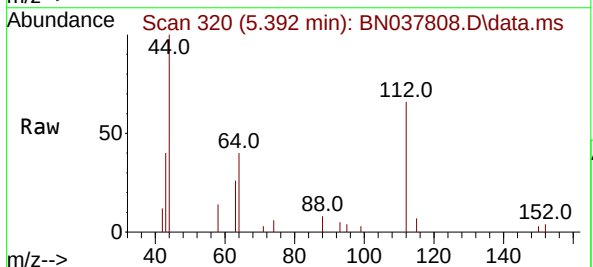
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916



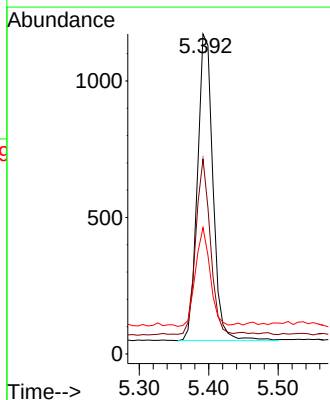
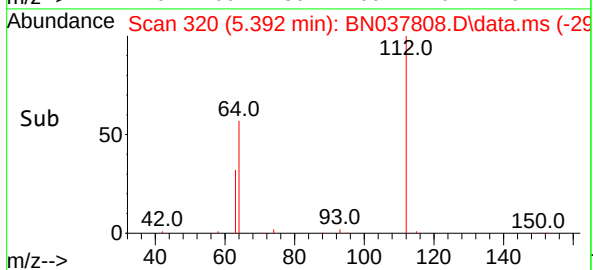
Tgt Ion:152 Resp: 5936
Ion Ratio Lower Upper
152 100
150 152.9 124.5 186.7
115 60.1 49.2 73.8

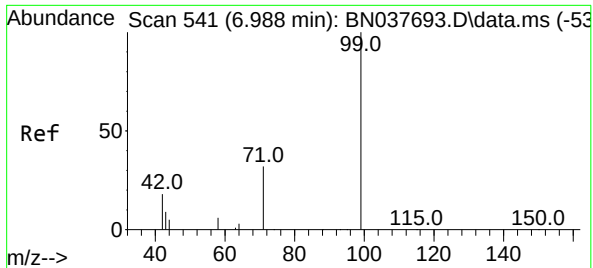


#4
2-Fluorophenol
Concen: 0.128 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037808.D
Acq: 19 Sep 2025 10:38



Tgt Ion:112 Resp: 1745
Ion Ratio Lower Upper
112 100
64 53.2 44.9 67.3
63 30.4 24.7 37.1

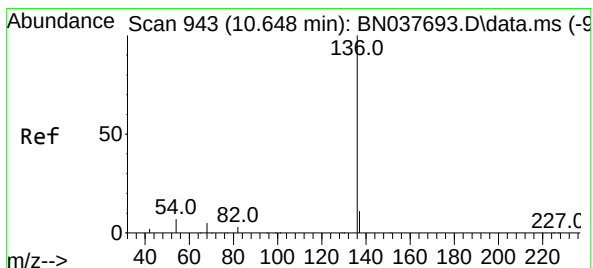
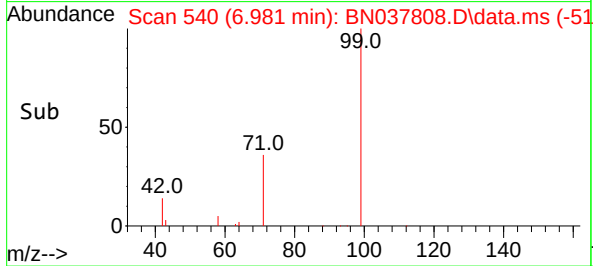
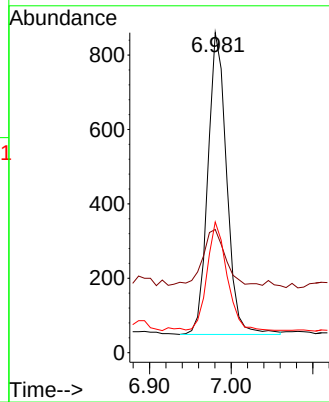
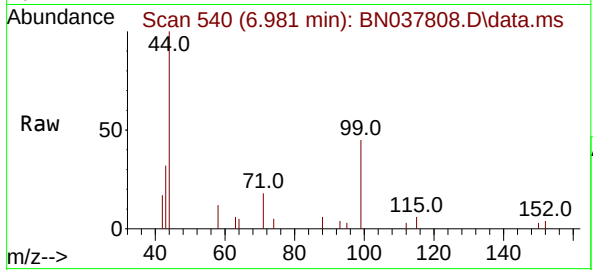




#5
Phenol-d6
Concen: 0.074 ng
RT: 6.981 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037808.D
Acq: 19 Sep 2025 10:38

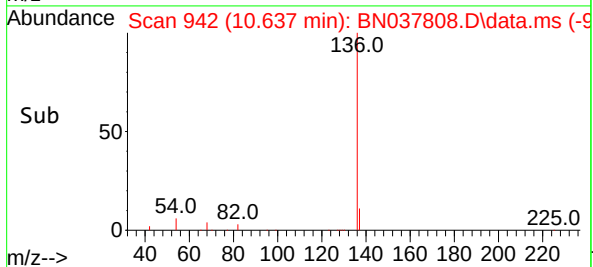
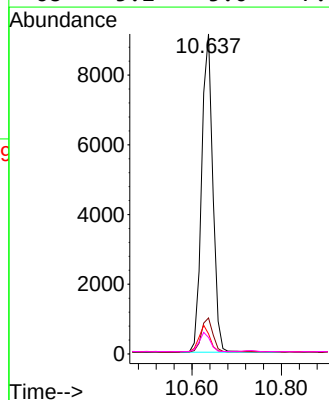
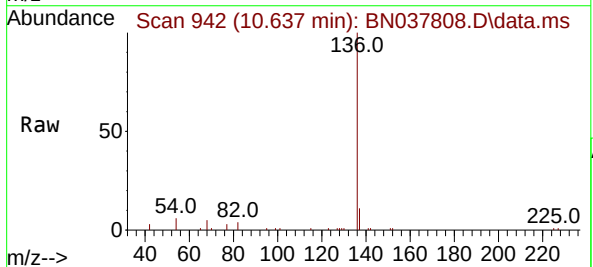
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916

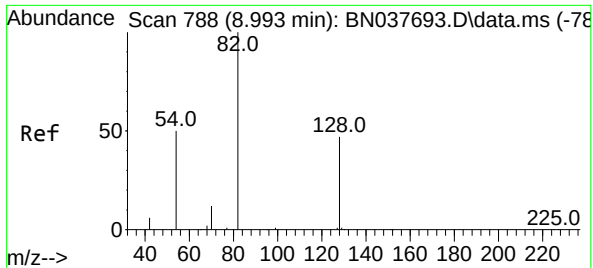
Tgt Ion: 99 Resp: 1300
Ion Ratio Lower Upper
99 100
42 20.5 16.6 24.8
71 37.8 26.7 40.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN037808.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 136 Resp: 15845
Ion Ratio Lower Upper
136 100
137 11.3 9.1 13.7
54 6.3 6.3 9.5#
68 5.2 5.0 7.4

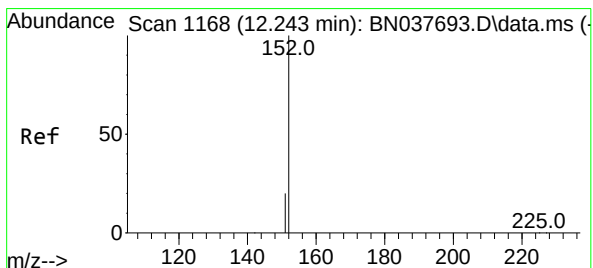
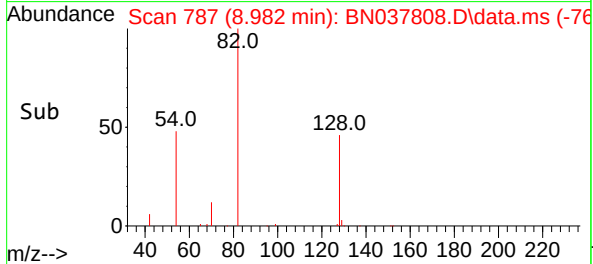
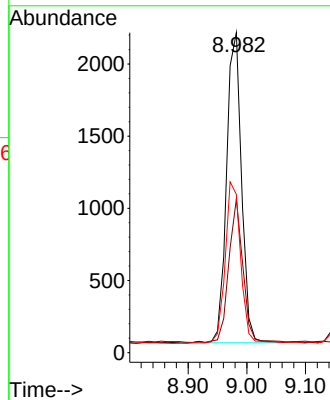
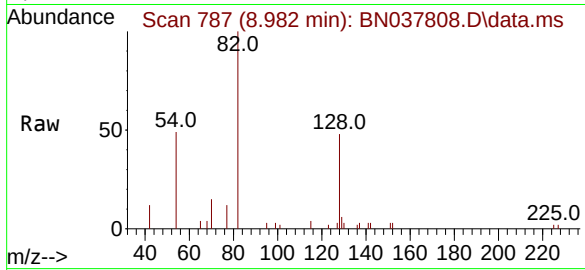




#8
Nitrobenzene-d5
Concen: 0.327 ng
RT: 8.982 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN037808.D
Acq: 19 Sep 2025 10:38

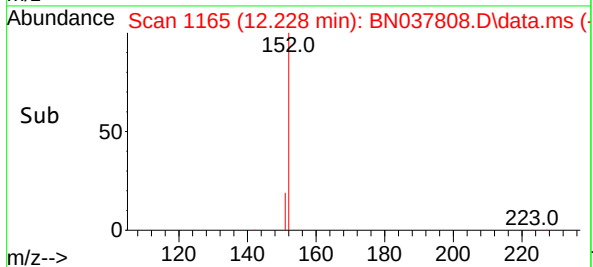
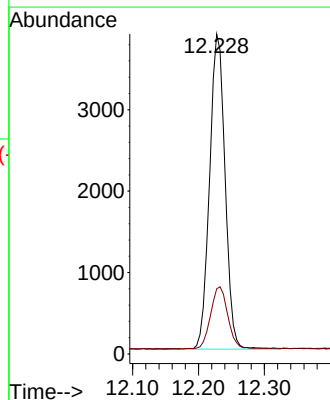
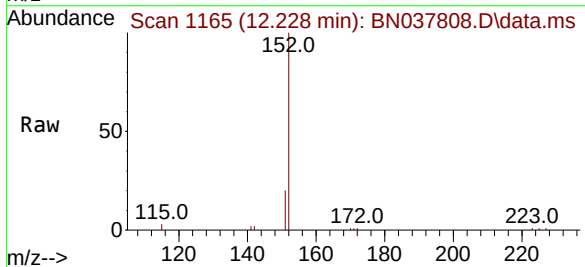
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916

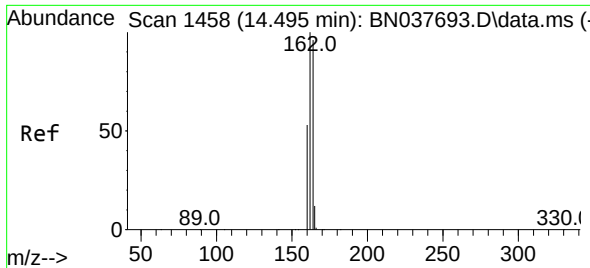
Tgt Ion: 82 Resp: 3795
Ion Ratio Lower Upper
82 100
128 48.0 38.3 57.5
54 49.4 41.4 62.2



#11
2-Methylnaphthalene-d10
Concen: 0.301 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037808.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 152 Resp: 6314
Ion Ratio Lower Upper
152 100
151 21.8 17.0 25.6

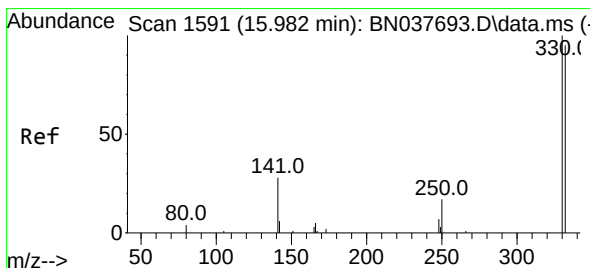
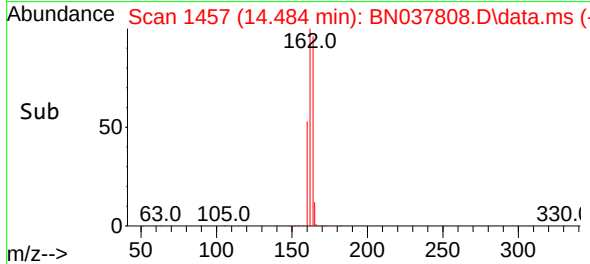
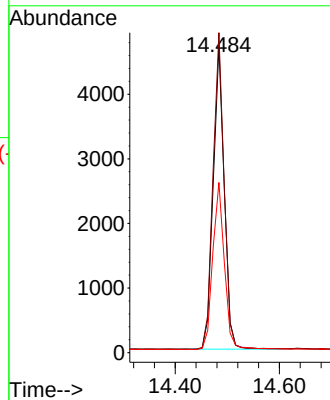
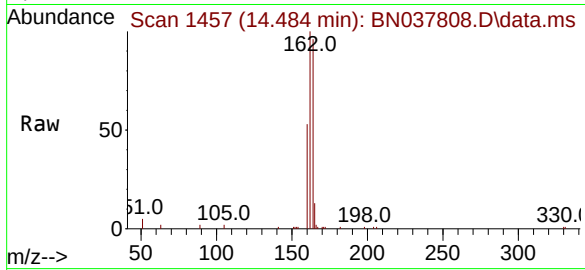




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037808.D
Acq: 19 Sep 2025 10:38

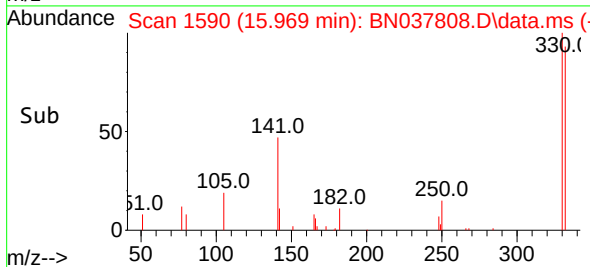
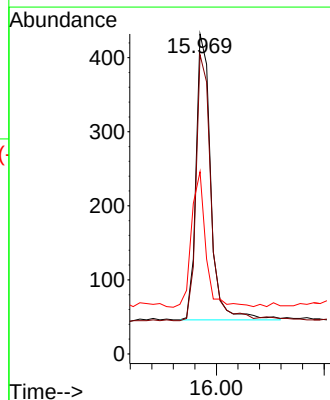
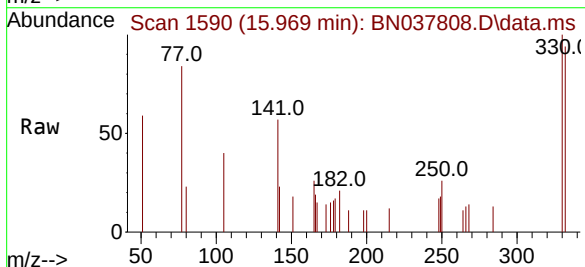
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916

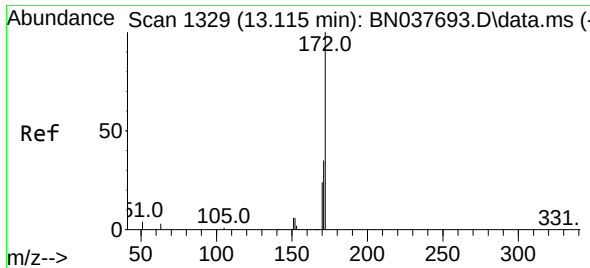
Tgt Ion	164	Resp:	6915
Ion Ratio	Lower	Upper	
164	100		
162	104.5	83.1	124.7
160	55.6	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.409 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037808.D
Acq: 19 Sep 2025 10:38

Tgt Ion	330	Resp:	737
Ion Ratio	Lower	Upper	
330	100		
332	93.5	75.3	112.9
141	45.9	35.0	52.4

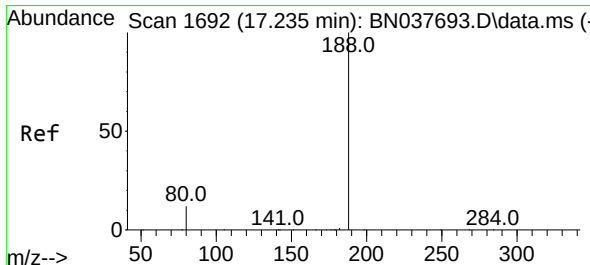
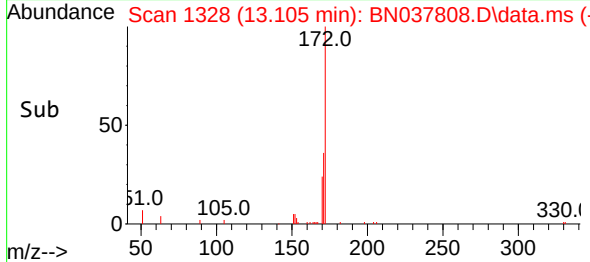
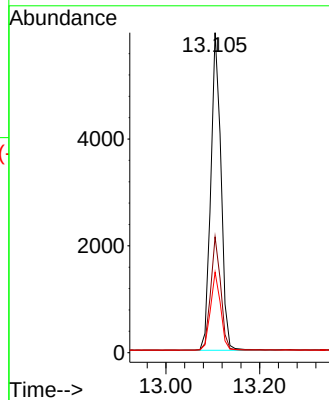
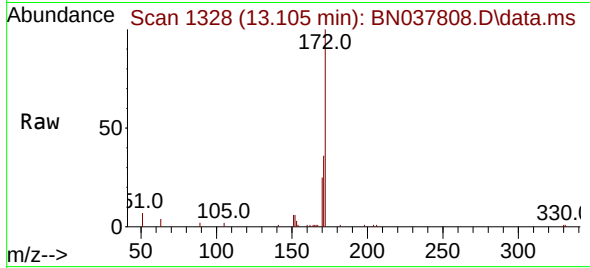




#15
2-Fluorobiphenyl
Concen: 0.311 ng
RT: 13.105 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN037808.D
Acq: 19 Sep 2025 10:38

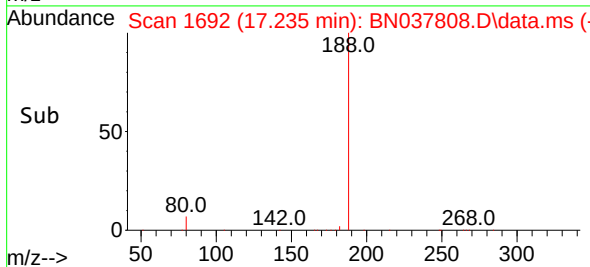
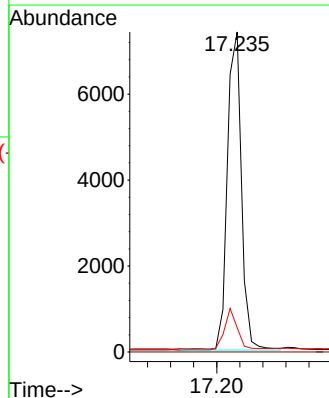
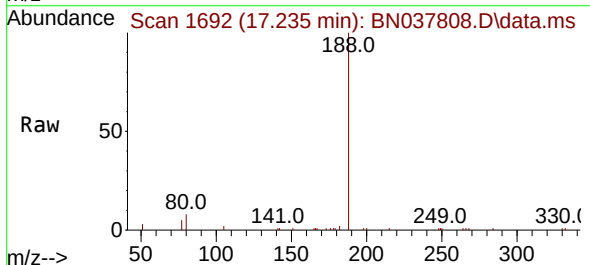
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916

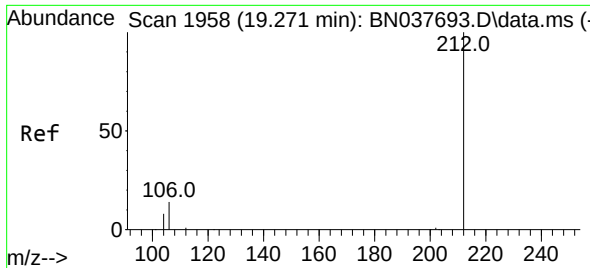
Tgt Ion:	172	Resp:	8985
Ion Ratio	Lower	Upper	
172	100		
171	36.2	28.6	43.0
170	25.1	19.8	29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037808.D
Acq: 19 Sep 2025 10:38

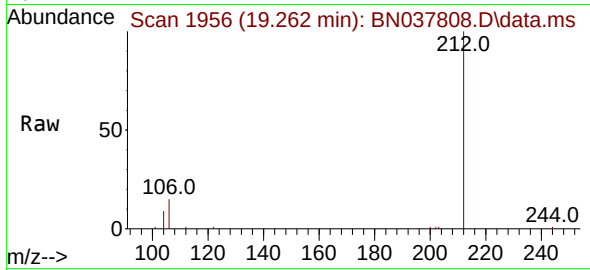
Tgt Ion:	188	Resp:	12519
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	7.6	10.6	15.8#



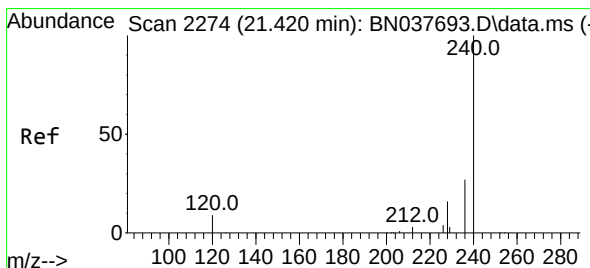
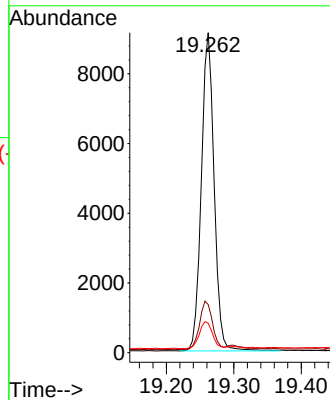
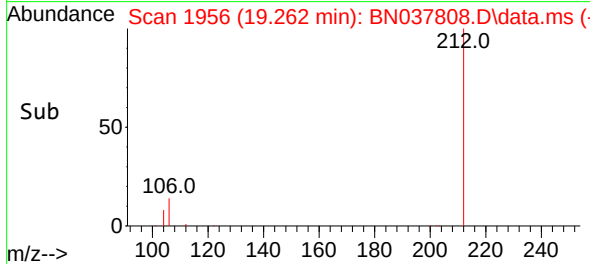


#27
Fluoranthene-d10
Concen: 0.381 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037808.D
Acq: 19 Sep 2025 10:38

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916

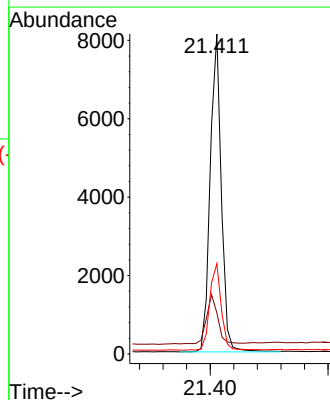
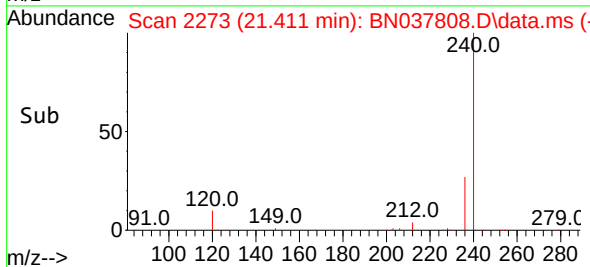
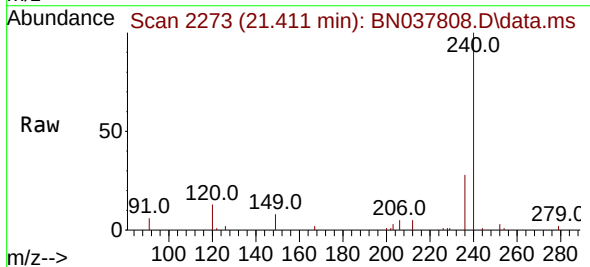


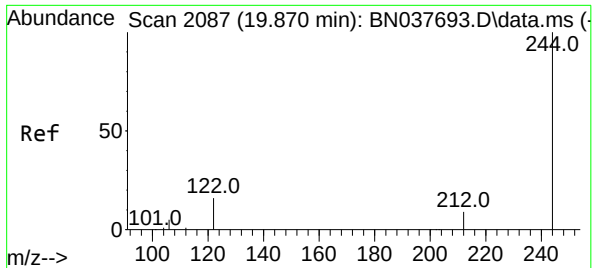
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.5	12.2	18.2
104	8.8	6.9	10.3



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037808.D
Acq: 19 Sep 2025 10:38

Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.9	9.2	13.8
236	28.2	22.6	33.8

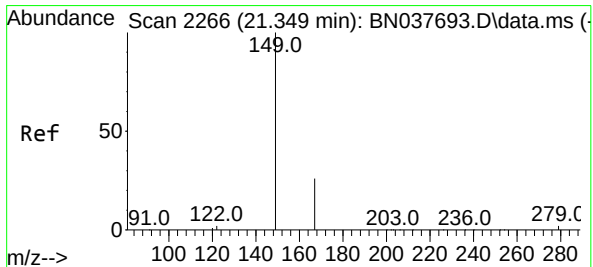
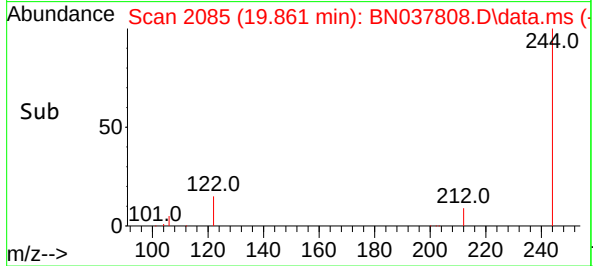
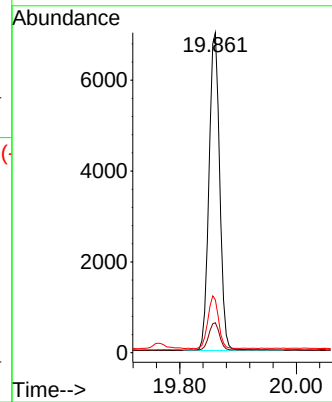
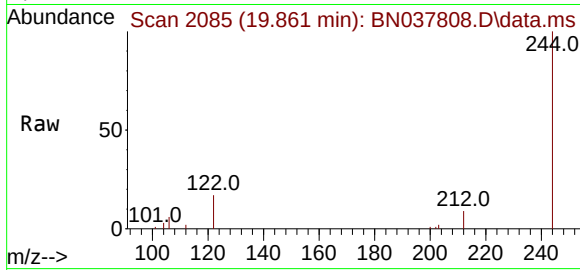




#31
Terphenyl-d14
Concen: 0.418 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037808.D
Acq: 19 Sep 2025 10:38

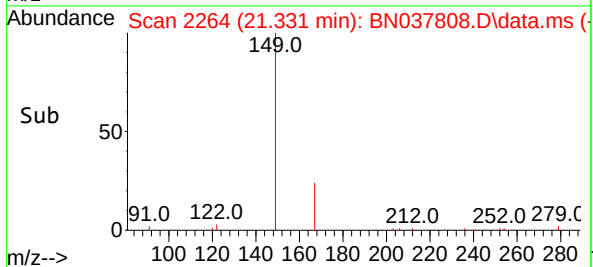
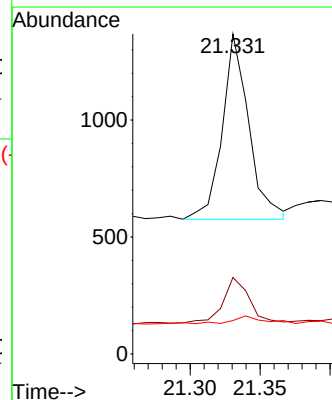
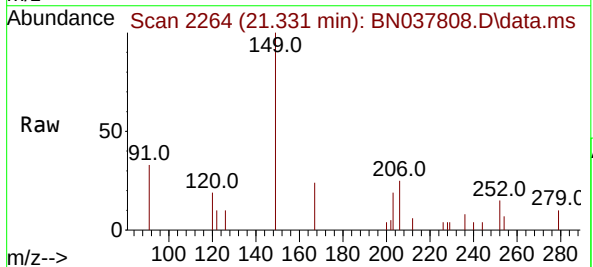
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916

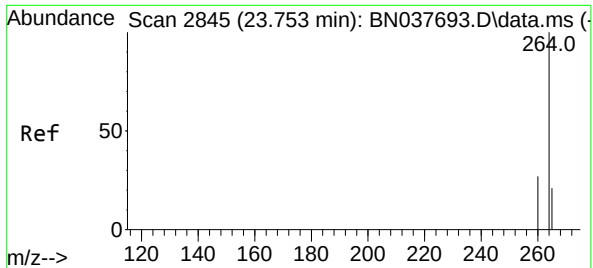
Tgt Ion:	244	Resp:	8983
Ion Ratio	Lower	Upper	
244	100		
212	9.4	7.5	11.3
122	16.5	13.2	19.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.095 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037808.D
Acq: 19 Sep 2025 10:38

Tgt Ion:	149	Resp:	1044
Ion Ratio	Lower	Upper	
149	100		
167	24.2	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: BN037808.D

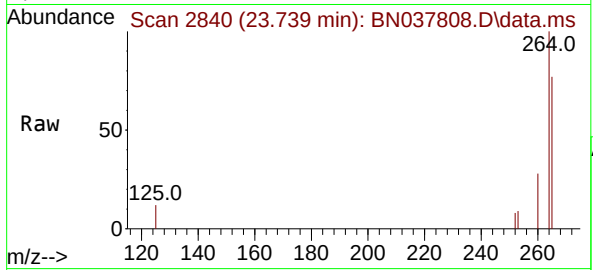
Acq: 19 Sep 2025 10:38

Instrument :

BNA_N

ClientSampleId :

TT119S1-20250916



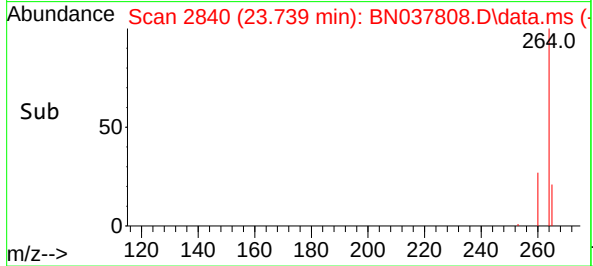
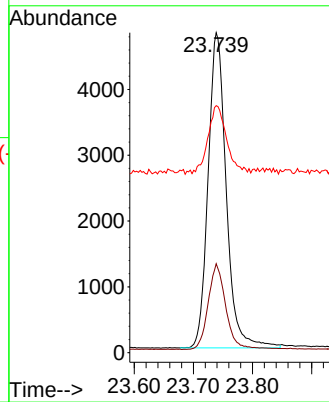
Tgt Ion:264 Resp: 10201

Ion Ratio Lower Upper

264 100

260 27.8 21.8 32.8

265 77.2 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/15/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/17/25
Client Sample ID:	TT101D2-20250915	SDG No.:	Q3127
Lab Sample ID:	Q3127-16	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
BN037842.D	1	09/18/25 11:35	09/20/25 08:38	PB169743

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.00	E	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	0.40		30 - 150		101%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	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	5290		7.825			
1146-65-2	Naphthalene-d8	13700		10.626			
15067-26-2	Acenaphthene-d10	5760		14.484			
1517-22-2	Phenanthrene-d10	10500		17.223			
1719-03-5	Chrysene-d12	9810		21.402			
1520-96-3	Perylene-d12	9100		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 : BN037842.D
Acq On : 20 Sep 2025 08:38
Operator : RC/JU
Sample : Q3127-16
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915

Quant Time: Sep 22 00:36:47 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

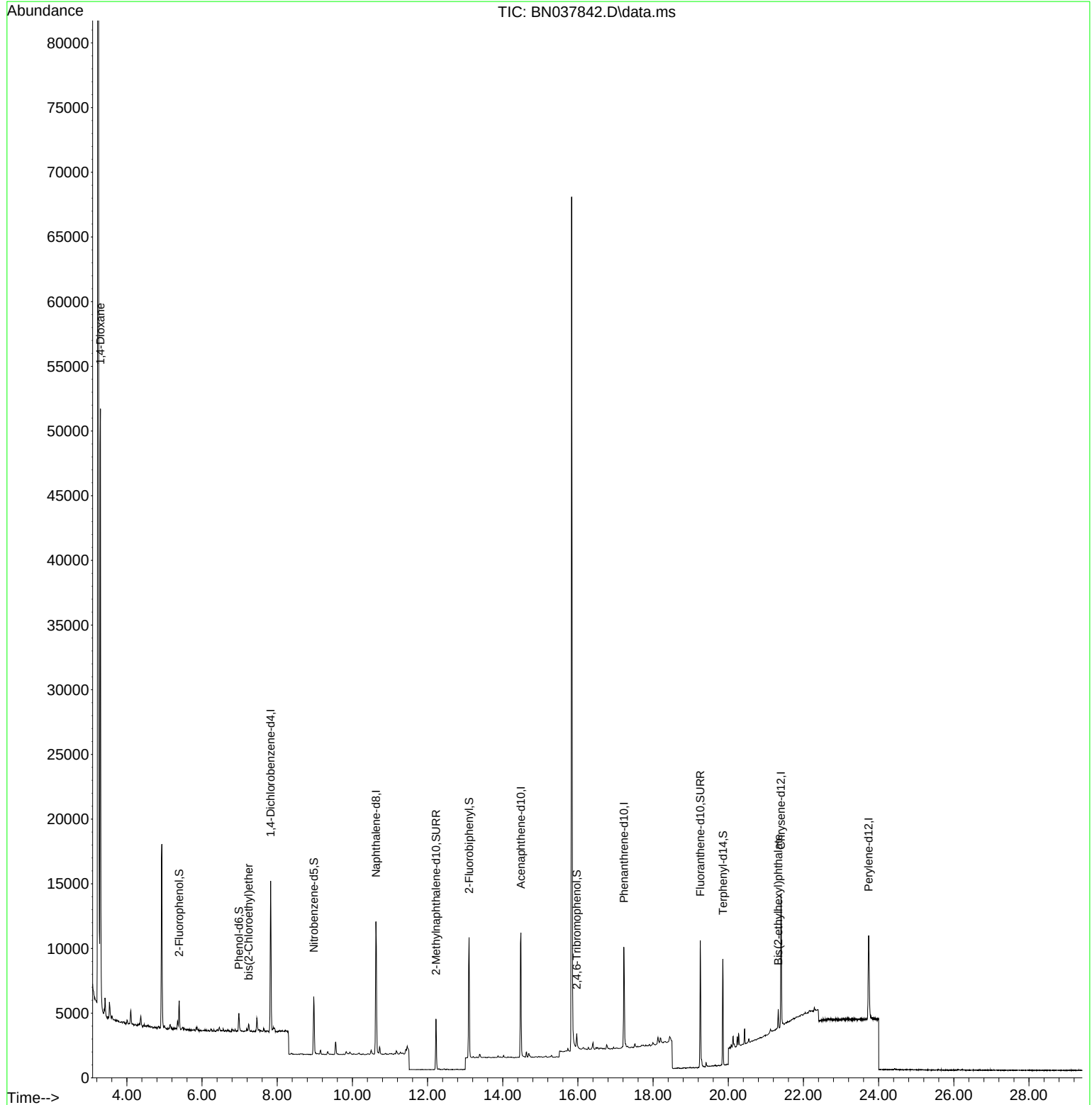
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	7.825	152	5292	0.400 ng	-0.01
7) Naphthalene-d8	10.626	136	13672	0.400 ng	-0.02
13) Acenaphthene-d10	14.484	164	5762	0.400 ng	-0.01
19) Phenanthrene-d10	17.223	188	10516	0.400 ng	-0.01
29) Chrysene-d12	21.402	240	9805	0.400 ng	#-0.02
35) Perylene-d12	23.736	264	9100	0.400 ng	#-0.02
System Monitoring Compounds					
4) 2-Fluorophenol	5.392	112	1668	0.137 ng	0.00
5) Phenol-d6	6.980	99	1214	0.077 ng	0.00
8) Nitrobenzene-d5	8.971	82	3592	0.359 ng	-0.02
11) 2-Methylnaphthalene-d10	12.222	152	5245	0.290 ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	676	0.450 ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	8036	0.333 ng	-0.01
27) Fluoranthene-d10	19.257	212	10637	0.403 ng	-0.01
31) Terphenyl-d14	19.856	244	7592	0.381 ng	-0.01
Target Compounds					
2) 1,4-Dioxane	3.297	88	27572	5.002 ng	Qvalue 97
6) bis(2-Chloroethyl)ether	7.240	93	437	0.031 ng	91
34) Bis(2-ethylhexyl)phtha...	21.331	149	1454	0.143 ng	# 99

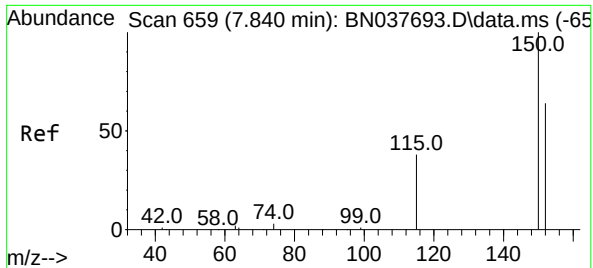
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037842.D
Acq On : 20 Sep 2025 08:38
Operator : RC/JU
Sample : Q3127-16
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915

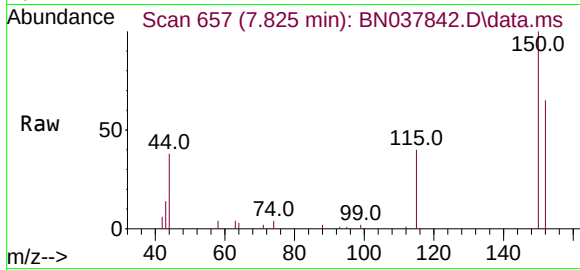
Quant Time: Sep 22 00:36:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



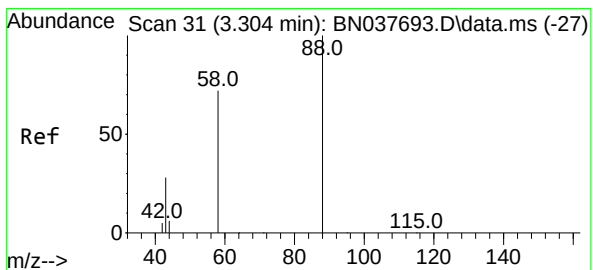
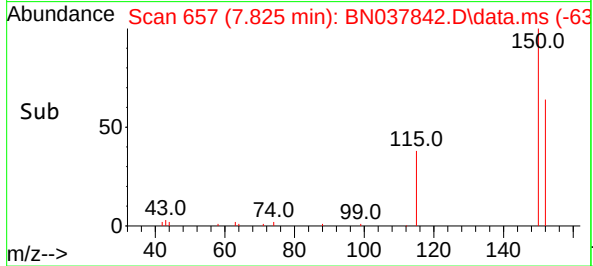
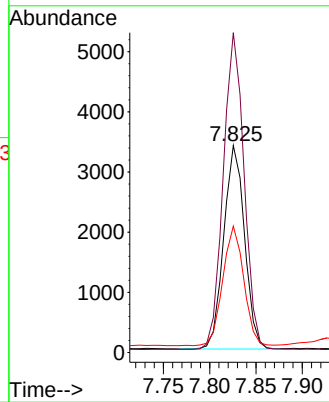


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN037842.D
Acq: 20 Sep 2025 08:38

Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915

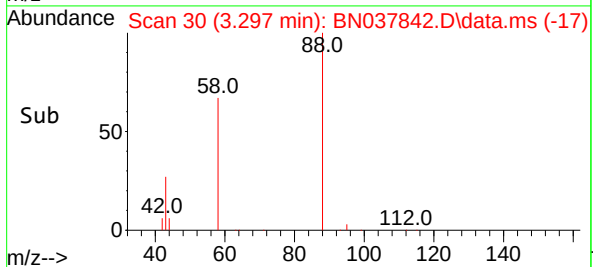
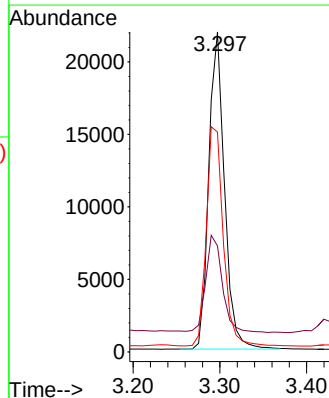
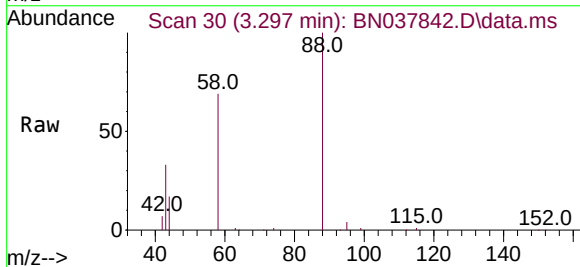


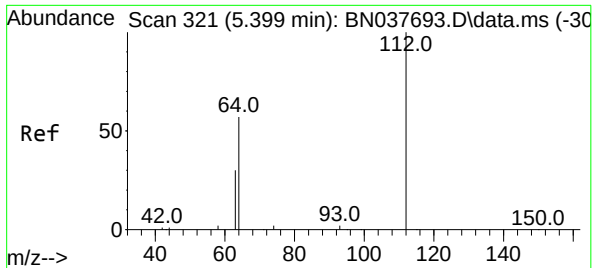
Tgt Ion:152 Resp: 5292
Ion Ratio Lower Upper
152 100
150 154.5 124.5 186.7
115 61.1 49.2 73.8



#2
1,4-Dioxane
Concen: 5.002 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037842.D
Acq: 20 Sep 2025 08:38

Tgt Ion: 88 Resp: 27572
Ion Ratio Lower Upper
88 100
43 32.0 26.8 40.2
58 74.1 61.9 92.9

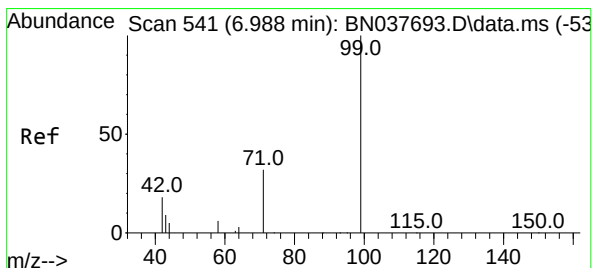
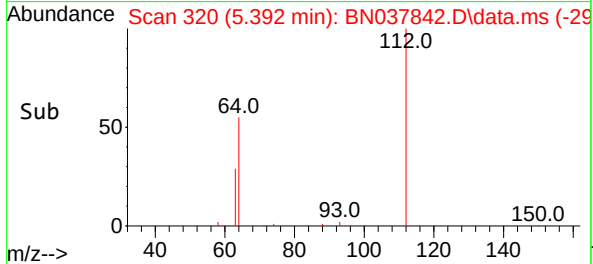
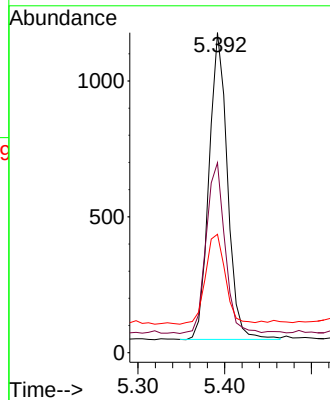
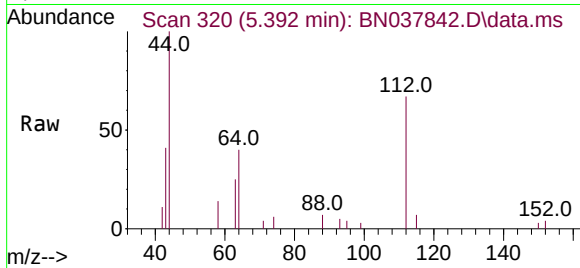




#4
2-Fluorophenol
Concen: 0.137 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037842.D
Acq: 20 Sep 2025 08:38

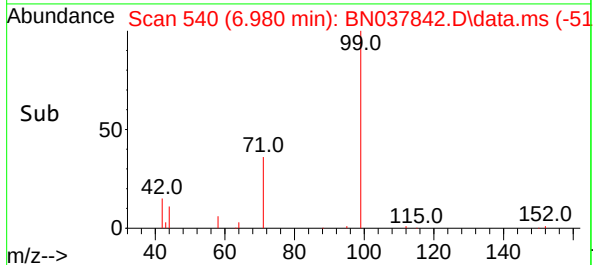
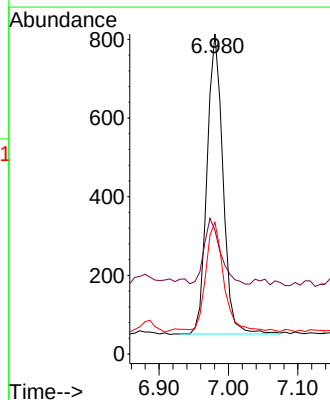
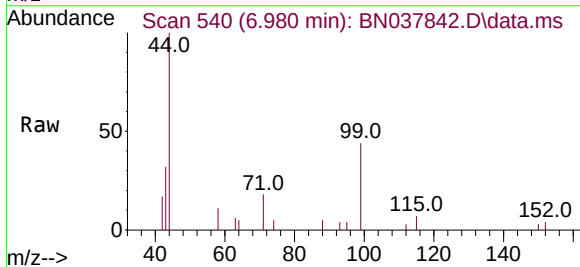
Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915

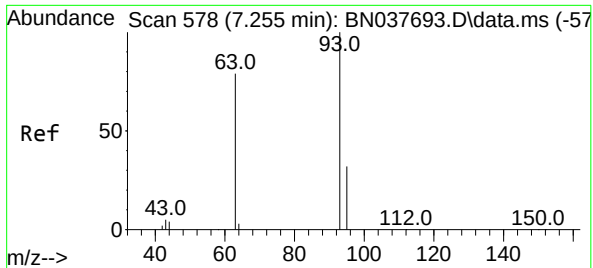
Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.2	44.9	67.3
63	31.5	24.7	37.1



#5
Phenol-d6
Concen: 0.077 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037842.D
Acq: 20 Sep 2025 08:38

Tgt Ion	Ratio	Lower	Upper
99	100		
42	22.5	16.6	24.8
71	41.4	26.7	40.1

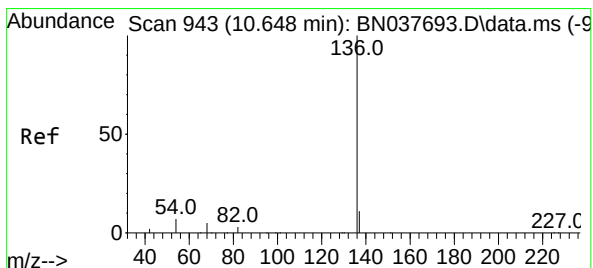
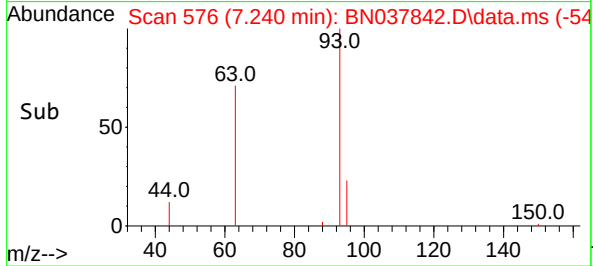
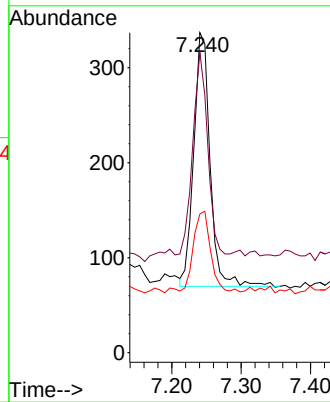
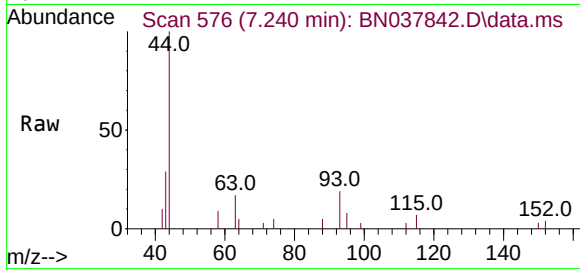




#6
bis(2-Chloroethyl)ether
Concen: 0.031 ng
RT: 7.240 min Scan# 51
Delta R.T. -0.015 min
Lab File: BN037842.D
Acq: 20 Sep 2025 08:38

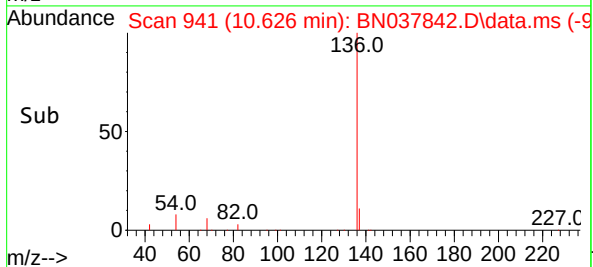
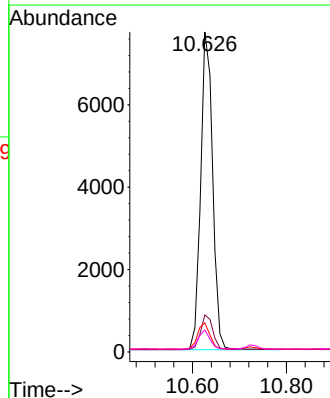
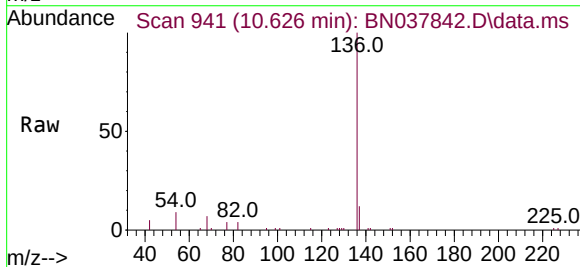
Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915

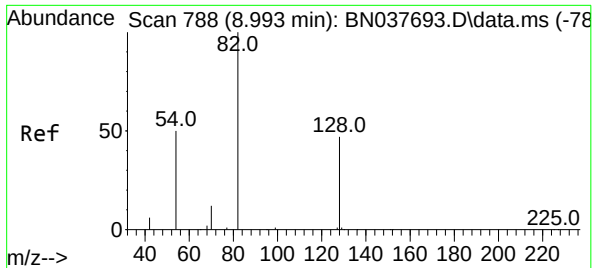
Tgt Ion: 93	Resp: 437
Ion Ratio	Lower Upper
93 100	
63 85.4	60.6 90.8
95 35.5	26.0 39.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.021 min
Lab File: BN037842.D
Acq: 20 Sep 2025 08:38

Tgt Ion:136	Resp: 13672
Ion Ratio	Lower Upper
136 100	
137 11.5	9.1 13.7
54 9.1	6.3 9.5
68 6.9	5.0 7.4

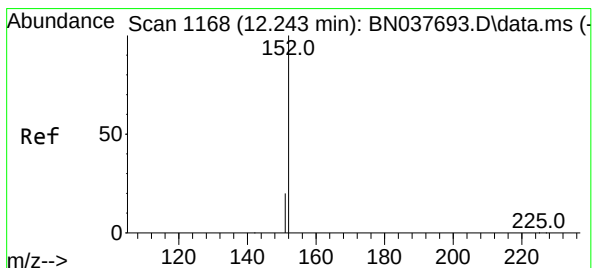
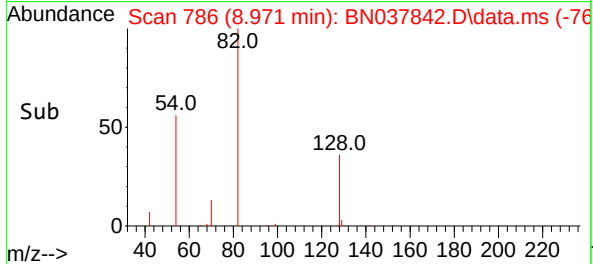
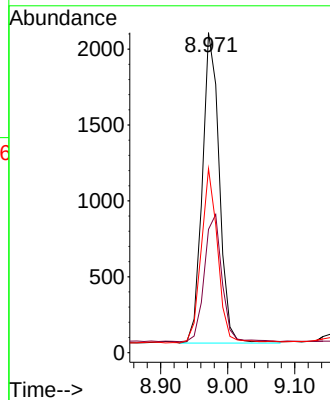
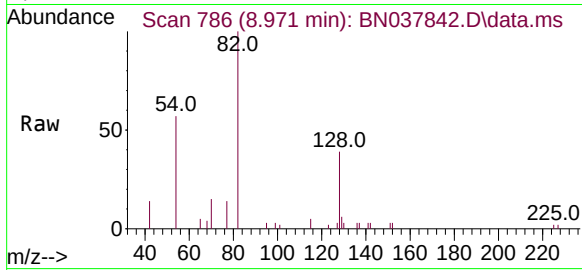




#8
Nitrobenzene-d5
Concen: 0.359 ng
RT: 8.971 min Scan# 788
Delta R.T. -0.021 min
Lab File: BN037842.D
Acq: 20 Sep 2025 08:38

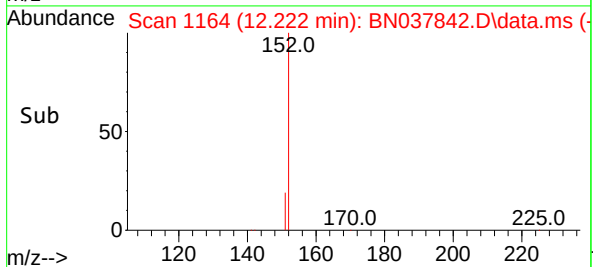
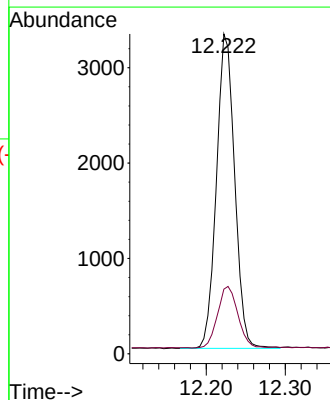
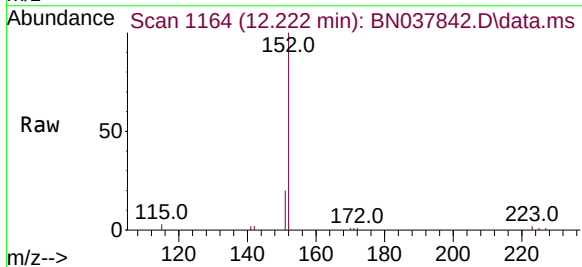
Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915

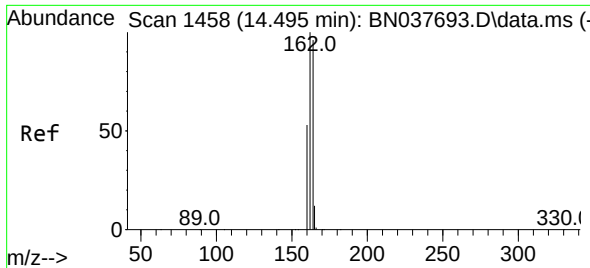
Tgt Ion: 82 Resp: 3592
Ion Ratio Lower Upper
82 100
128 38.5 38.3 57.5
54 57.5 41.4 62.2



#11
2-Methylnaphthalene-d10
Concen: 0.290 ng
RT: 12.222 min Scan# 1164
Delta R.T. -0.020 min
Lab File: BN037842.D
Acq: 20 Sep 2025 08:38

Tgt Ion: 152 Resp: 5245
Ion Ratio Lower Upper
152 100
151 21.9 17.0 25.6

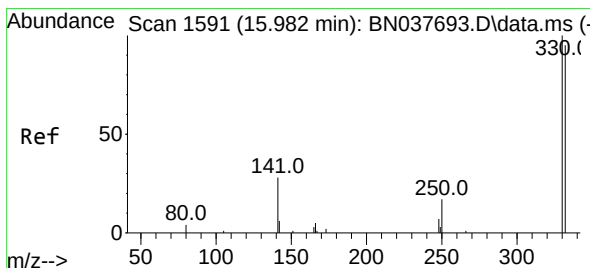
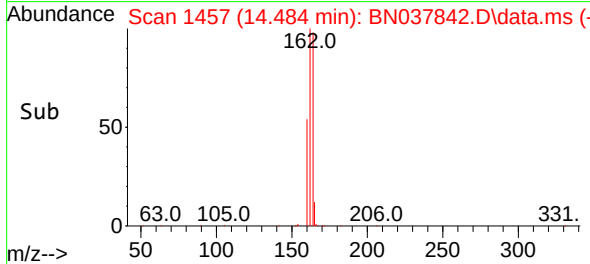
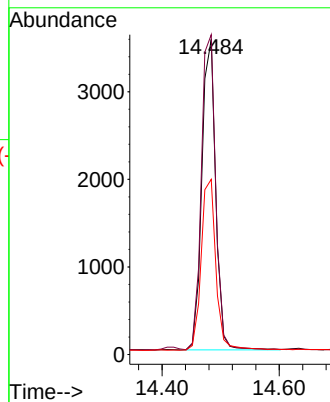
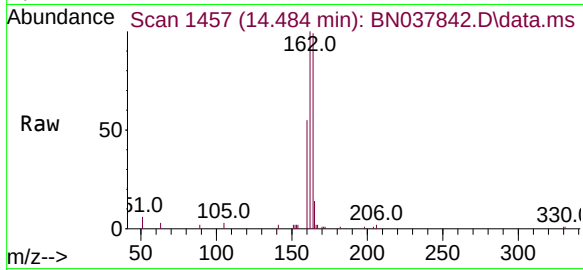




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1458
Delta R.T. -0.011 min
Lab File: BN037842.D
Acq: 20 Sep 2025 08:38

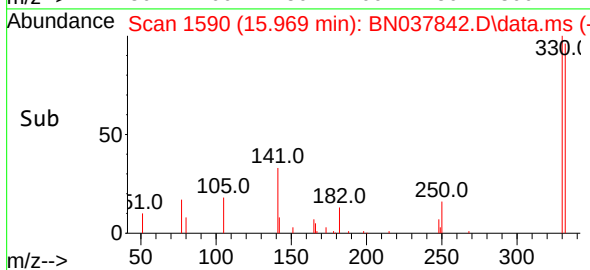
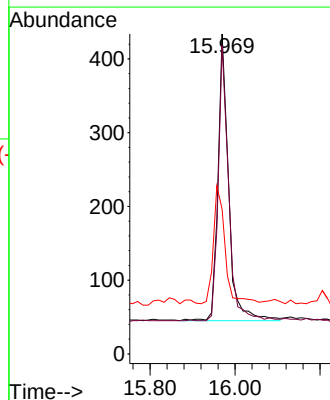
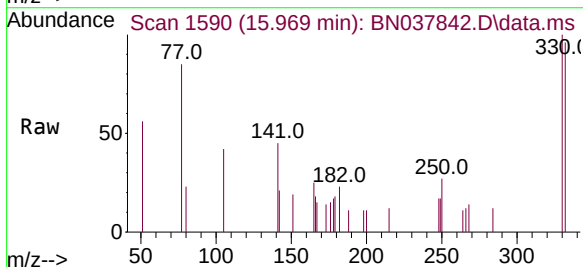
Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915

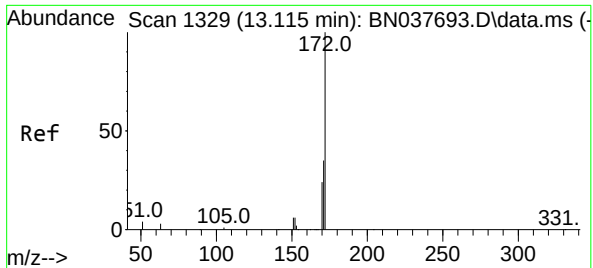
Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.5	83.1	124.7
160	55.6	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.450 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037842.D
Acq: 20 Sep 2025 08:38

Tgt Ion	Ratio	Lower	Upper
330	100		
332	93.8	75.3	112.9
141	45.4	35.0	52.4

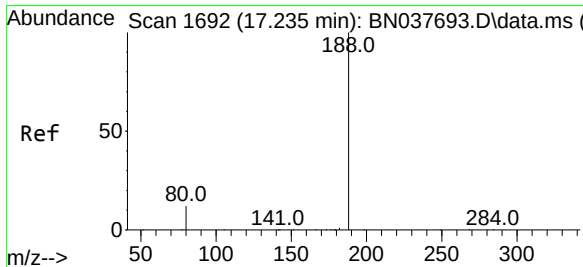
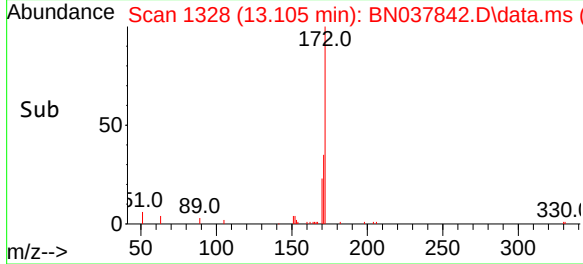
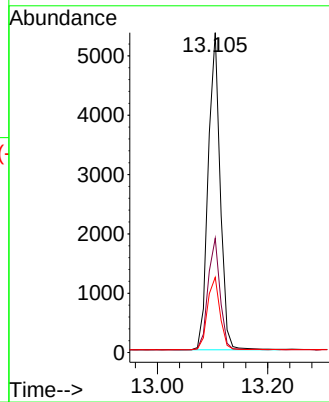
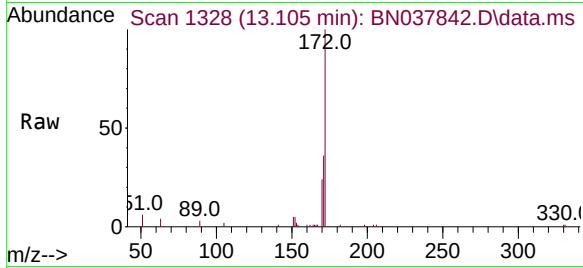




#15
2-Fluorobiphenyl
Concen: 0.333 ng
RT: 13.105 min Scan# 1329
Delta R.T. -0.011 min
Lab File: BN037842.D
Acq: 20 Sep 2025 08:38

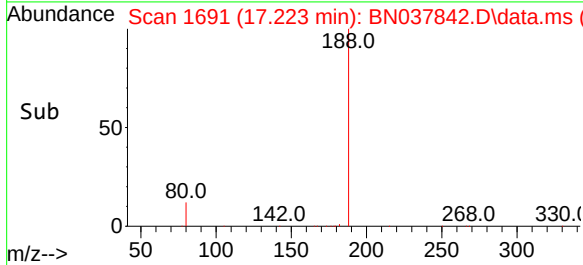
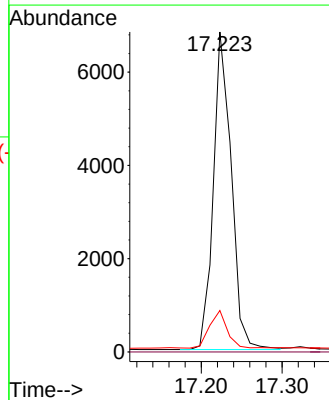
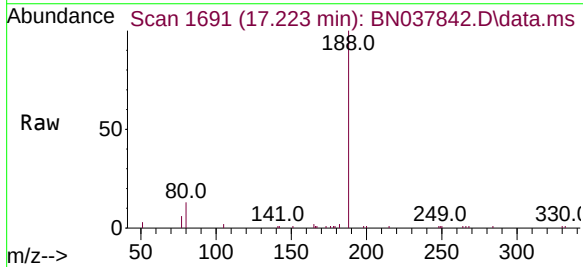
Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915

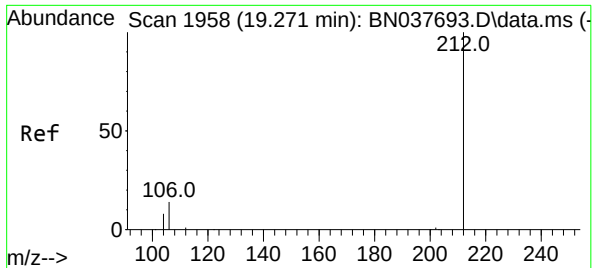
Tgt Ion:	172	Resp:	8036
Ion Ratio	Lower	Upper	
172	100		
171	35.7	28.6	43.0
170	23.5	19.8	29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.012 min
Lab File: BN037842.D
Acq: 20 Sep 2025 08:38

Tgt Ion:	188	Resp:	10516
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	12.9	10.6	15.8





#27

Fluoranthene-d10

Concen: 0.403 ng

RT: 19.257 min Scan# 19

Delta R.T. -0.014 min

Lab File: BN037842.D

Acq: 20 Sep 2025 08:38

Instrument :

BNA_N

ClientSampleId :

TT101D2-20250915

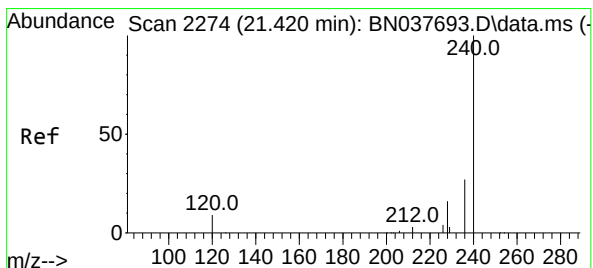
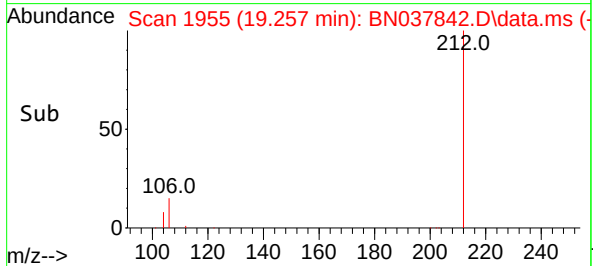
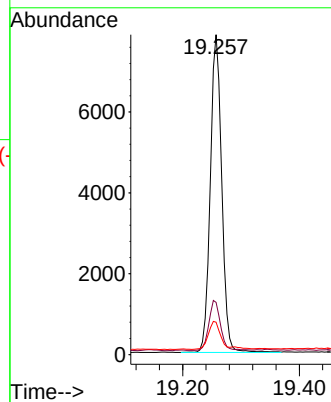
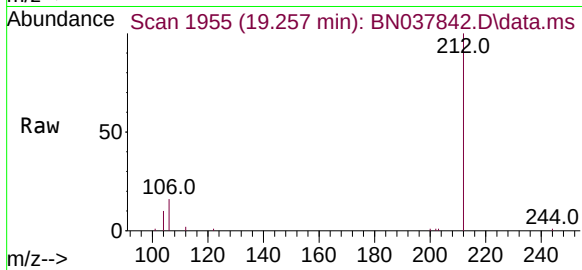
Tgt Ion:212 Resp: 10637

Ion Ratio Lower Upper

212 100

106 15.9 12.2 18.2

104 9.2 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: BN037842.D

Acq: 20 Sep 2025 08:38

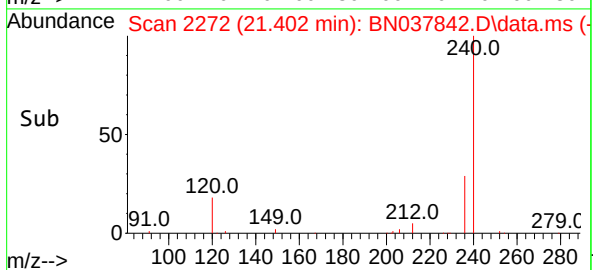
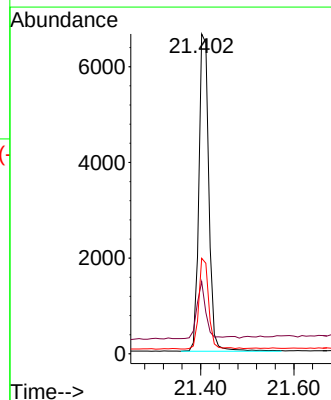
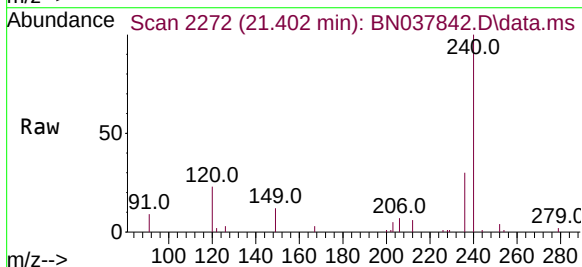
Tgt Ion:240 Resp: 9805

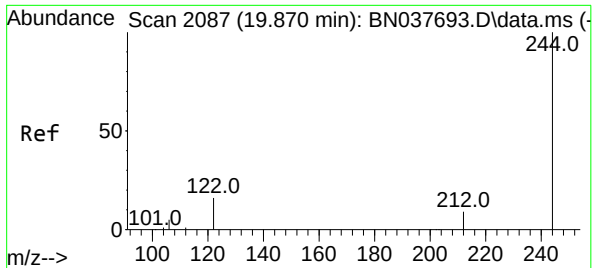
Ion Ratio Lower Upper

240 100

120 22.6 9.2 13.8#

236 29.9 22.6 33.8

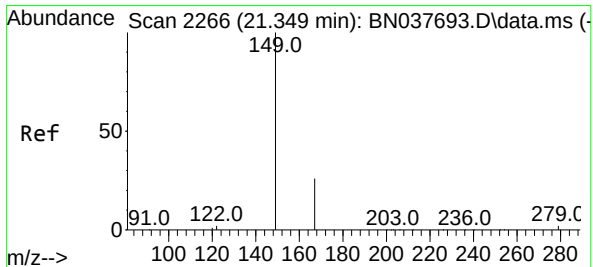
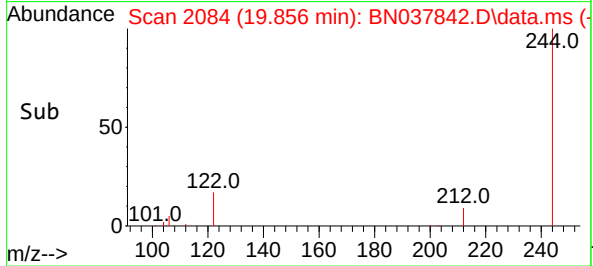
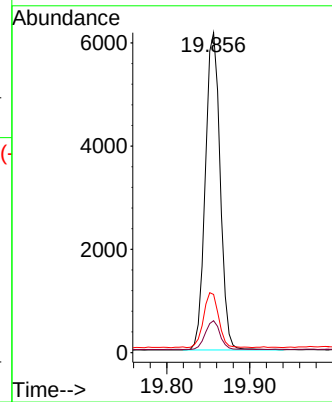
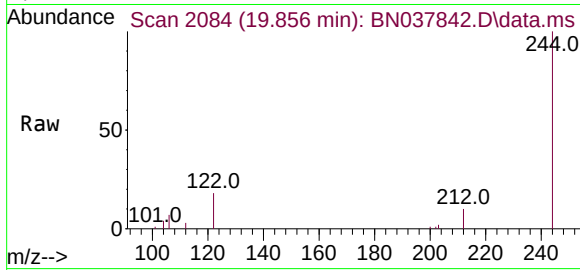




#31
Terphenyl-d14
Concen: 0.381 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037842.D
Acq: 20 Sep 2025 08:38

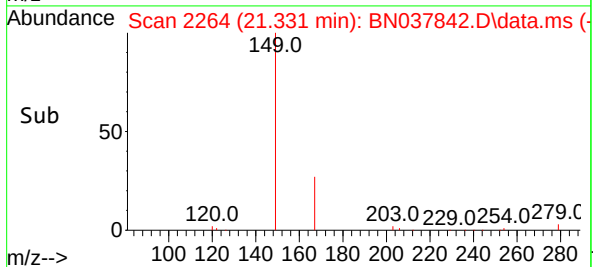
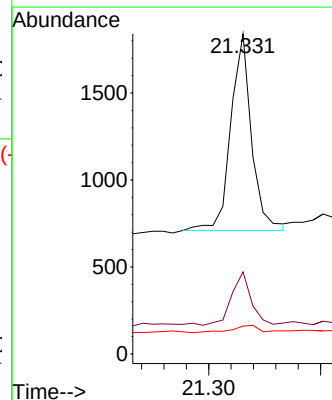
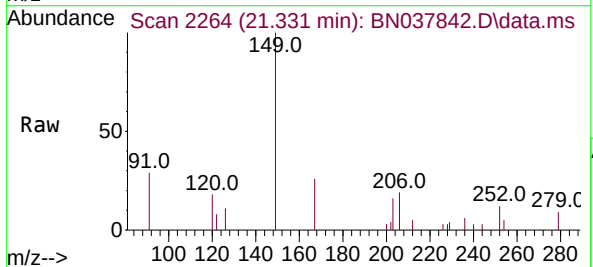
Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915

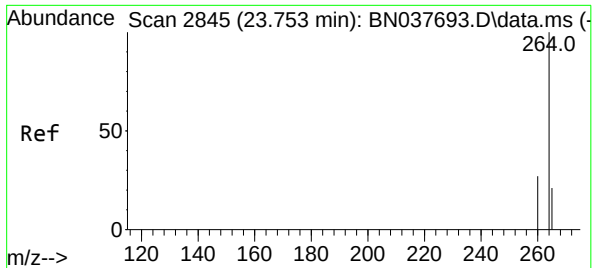
Tgt Ion:	244	Resp:	7592
Ion Ratio	Lower	Upper	
244	100		
212	10.0	7.5	11.3
122	18.2	13.2	19.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.143 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037842.D
Acq: 20 Sep 2025 08:38

Tgt Ion:	149	Resp:	1454
Ion Ratio	Lower	Upper	
149	100		
167	26.3	20.8	31.2
279	5.0	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: BN037842.D

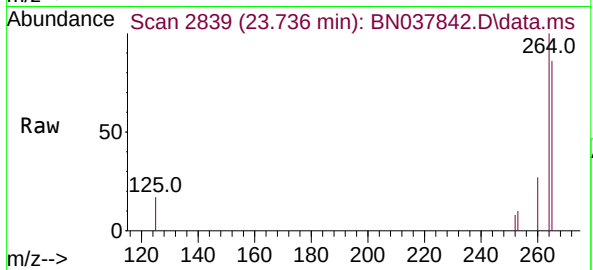
Acq: 20 Sep 2025 08:38

Instrument :

BNA_N

ClientSampleId :

TT101D2-20250915



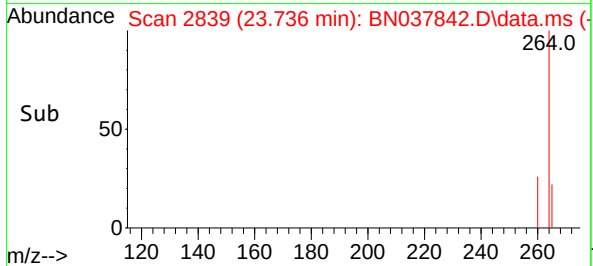
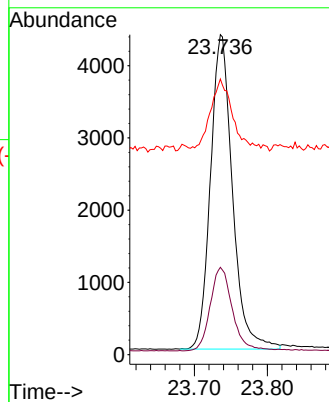
Tgt Ion:264 Resp: 9100

Ion Ratio Lower Upper

264 100

260 27.3 21.8 32.8

265 86.1 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	09/15/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/17/25
Client Sample ID:	TT101D2-20250915DL		SDG No.:	Q3127
Lab Sample ID:	Q3127-16DL		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
BN037857.D	2	09/18/25 11:35	09/22/25 15:09	PB169743

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.10	D	0.13	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		97%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		88%	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	5470		7.826			
1146-65-2	Naphthalene-d8	14300		10.626			
15067-26-2	Acenaphthene-d10	5900		14.484			
1517-22-2	Phenanthrene-d10	10300		17.223			
1719-03-5	Chrysene-d12	8480		21.402			
1520-96-3	Perylene-d12	8000		23.733			

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\BN092225\
Data File : BN037857.D
Acq On : 22 Sep 2025 15:09
Operator : RC/JU
Sample : Q3127-16DL 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915DL

Quant Time: Sep 22 15:34:41 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

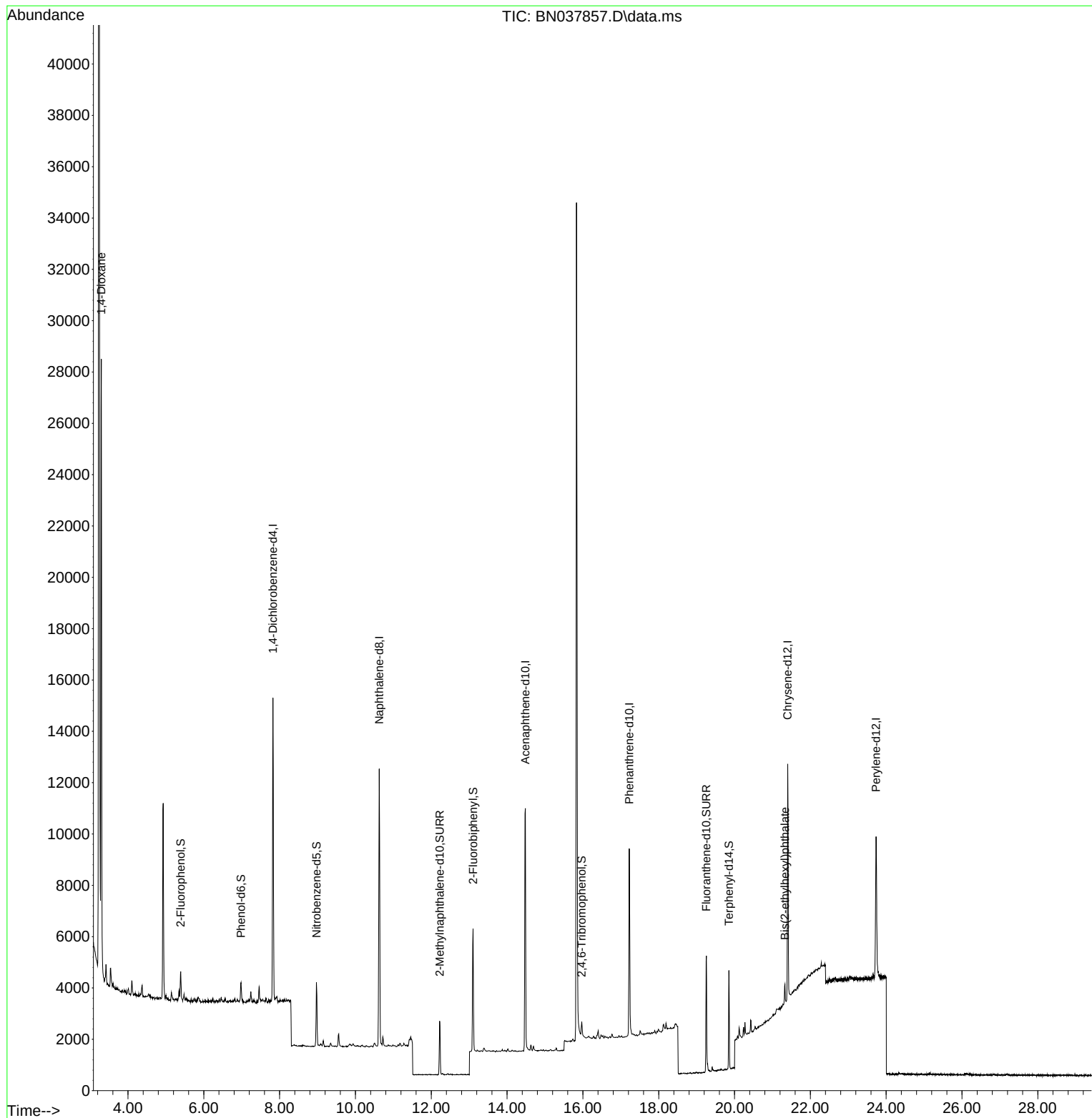
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.826	152	5466	0.400	ng	-0.01
7) Naphthalene-d8	10.626	136	14302	0.400	ng	-0.02
13) Acenaphthene-d10	14.484	164	5898	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	10257	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	8483	0.400	ng	#-0.02
35) Perylene-d12	23.733	264	7996	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	916	0.073	ng	0.00
5) Phenol-d6	6.981	99	715	0.044	ng	0.00
8) Nitrobenzene-d5	8.971	82	1990	0.190	ng	-0.02
11) 2-Methylnaphthalene-d10	12.223	152	2837	0.150	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	338	0.220	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	4355	0.177	ng	-0.01
27) Fluoranthene-d10	19.257	212	4984	0.194	ng	-0.01
31) Terphenyl-d14	19.852	244	3501	0.203	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.297	88	14450	2.538	ng	97
34) Bis(2-ethylhexyl)phtha...	21.331	149	925	0.105	ng	96

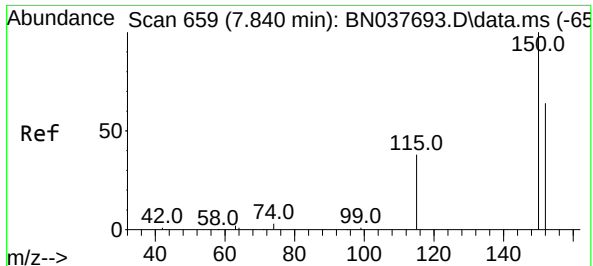
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037857.D
Acq On : 22 Sep 2025 15:09
Operator : RC/JU
Sample : Q3127-16DL 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915DL

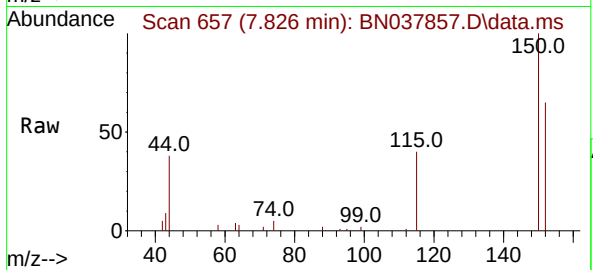
Quant Time: Sep 22 15:34:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



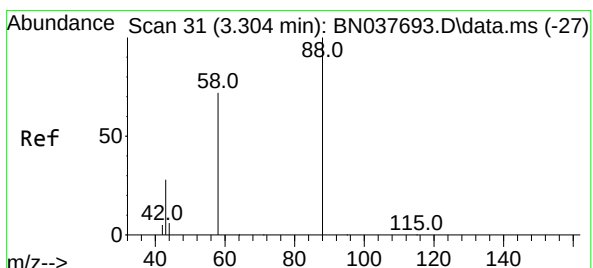
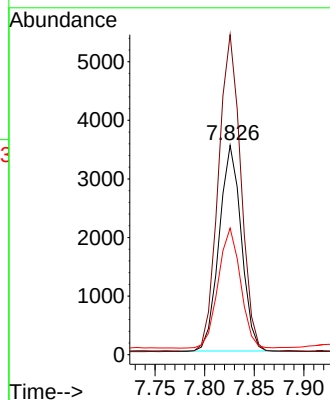
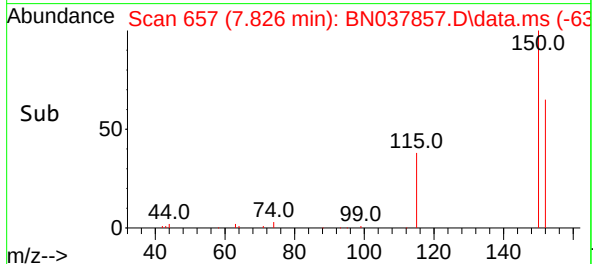


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 61
Delta R.T. -0.014 min
Lab File: BN037857.D
Acq: 22 Sep 2025 15:09

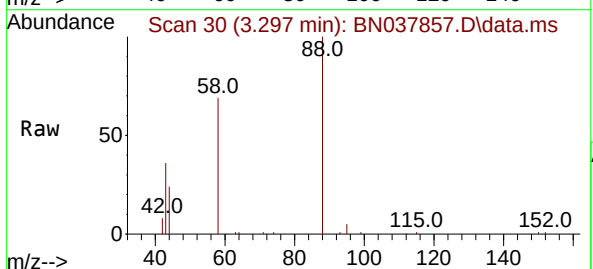
Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915DL



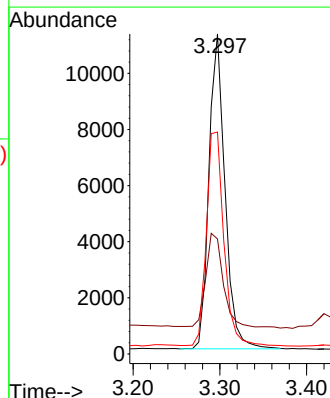
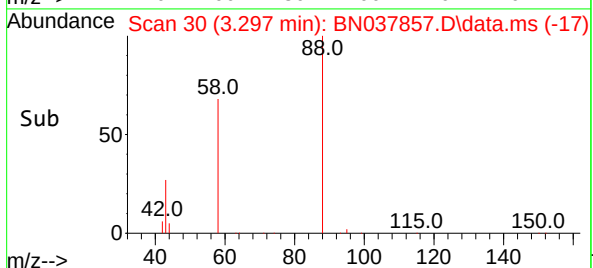
Tgt Ion: 152 Resp: 5466
Ion Ratio Lower Upper
152 100
150 152.9 124.5 186.7
115 60.5 49.2 73.8

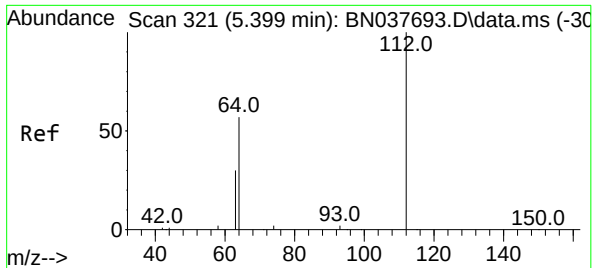


#2
1,4-Dioxane
Concen: 2.538 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037857.D
Acq: 22 Sep 2025 15:09



Tgt Ion: 88 Resp: 14450
Ion Ratio Lower Upper
88 100
43 33.5 26.8 40.2
58 73.4 61.9 92.9

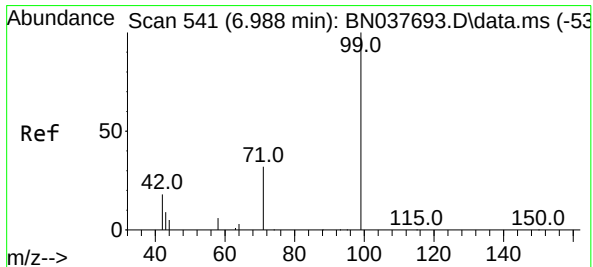
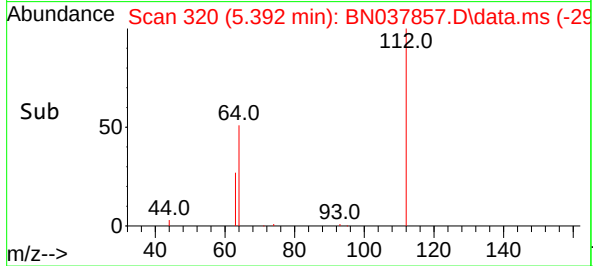
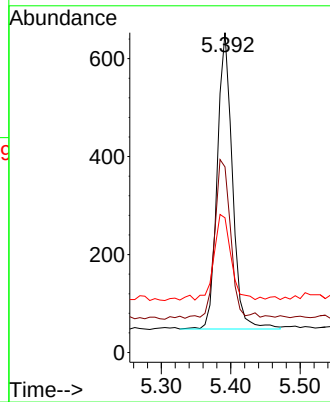
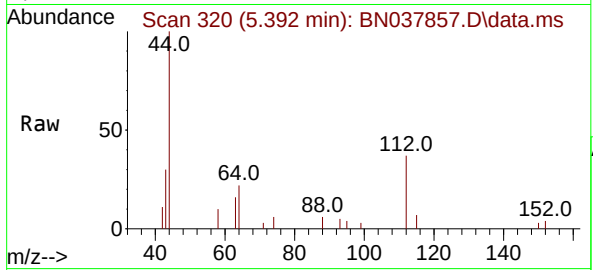




#4
2-Fluorophenol
Concen: 0.073 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037857.D
Acq: 22 Sep 2025 15:09

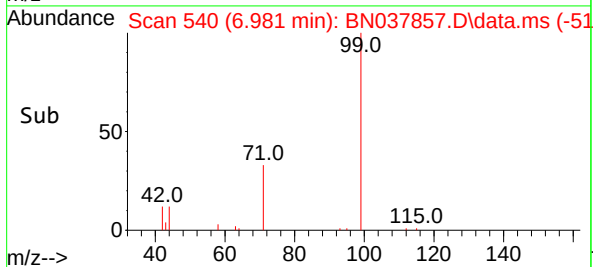
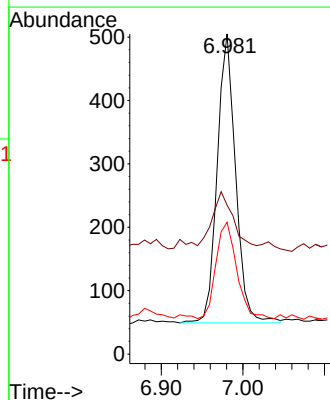
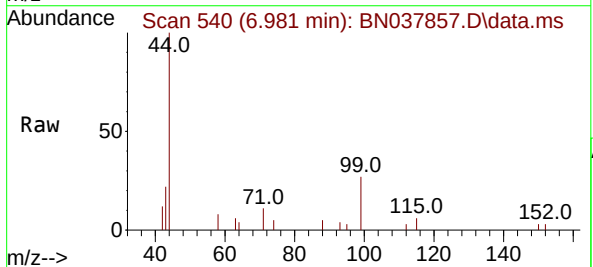
Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915DL

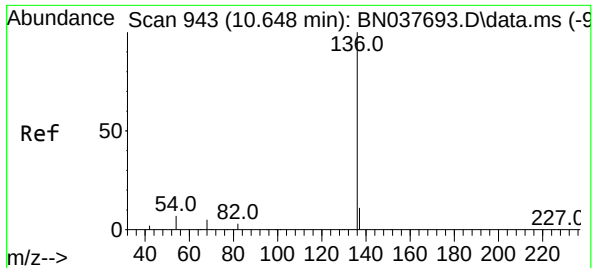
Tgt Ion:112 Resp: 916
Ion Ratio Lower Upper
112 100
64 55.6 44.9 67.3
63 32.0 24.7 37.1



#5
Phenol-d6
Concen: 0.044 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037857.D
Acq: 22 Sep 2025 15:09

Tgt Ion: 99 Resp: 715
Ion Ratio Lower Upper
99 100
42 19.6 16.6 24.8
71 37.3 26.7 40.1

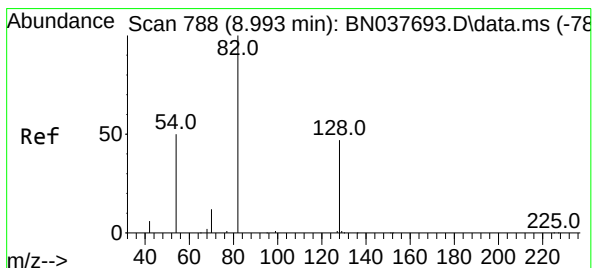
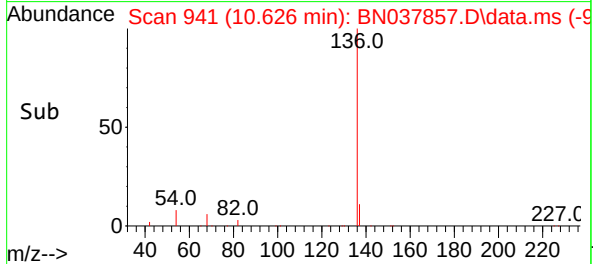
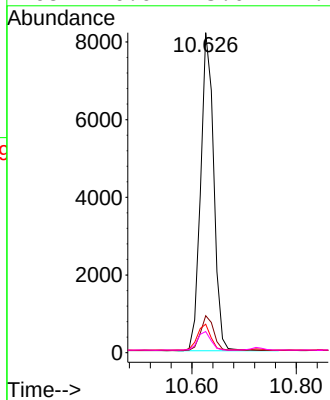
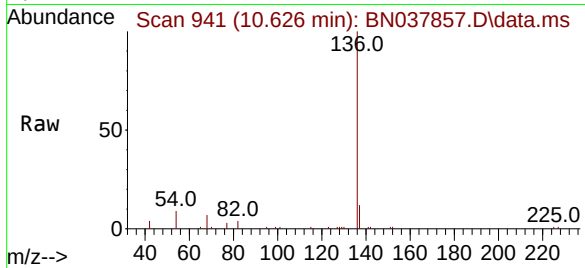




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.021 min
Lab File: BN037857.D
Acq: 22 Sep 2025 15:09

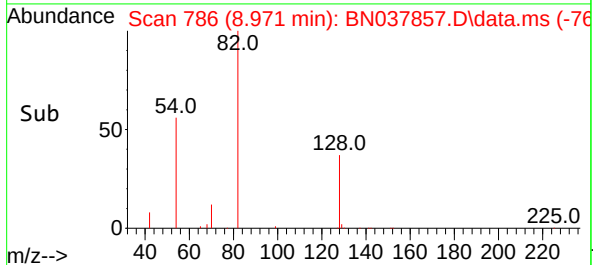
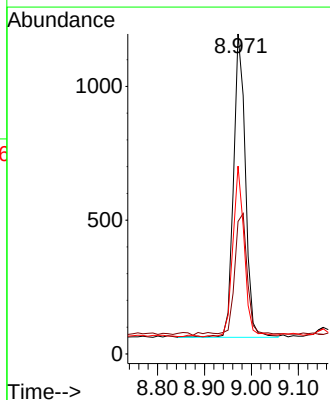
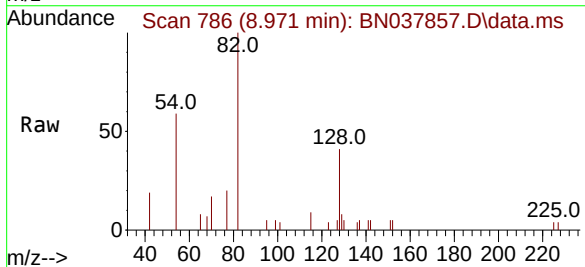
Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915DL

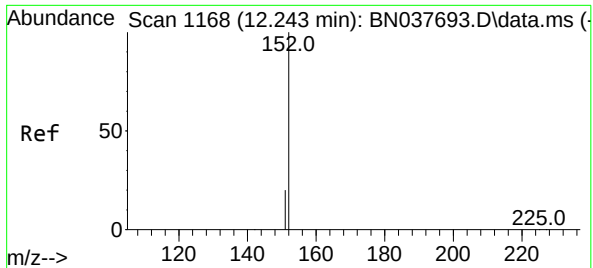
Tgt Ion:	136	Resp:	14302
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	8.9	6.3	9.5
68	6.6	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.190 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.021 min
Lab File: BN037857.D
Acq: 22 Sep 2025 15:09

Tgt Ion:	82	Resp:	1990
Ion	Ratio	Lower	Upper
82	100		
128	41.4	38.3	57.5
54	58.7	41.4	62.2

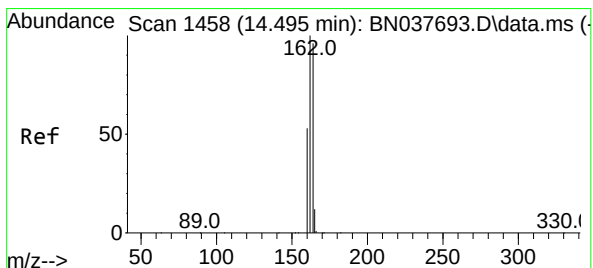
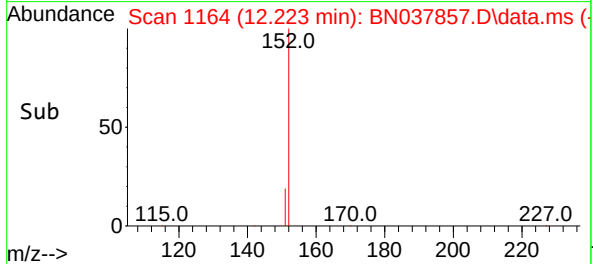
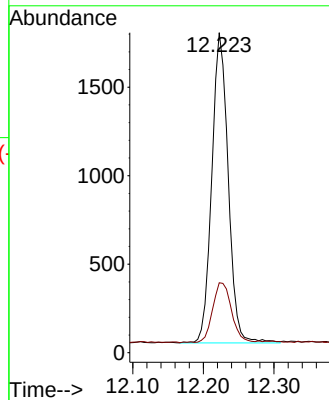
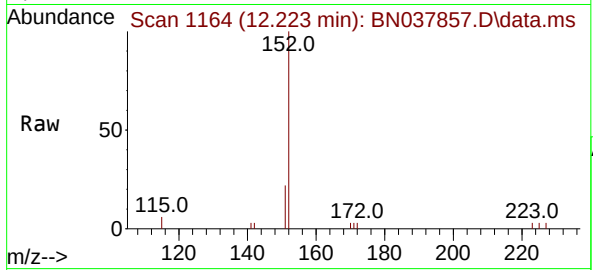




#11
2-Methylnaphthalene-d10
Concen: 0.150 ng
RT: 12.223 min Scan# 1164
Delta R.T. -0.020 min
Lab File: BN037857.D
Acq: 22 Sep 2025 15:09

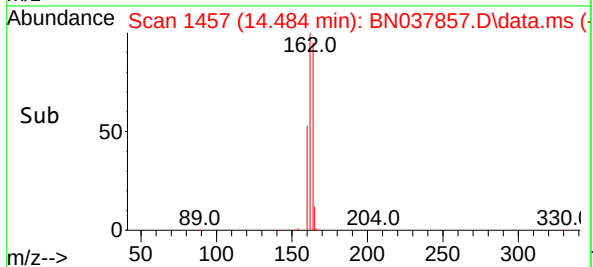
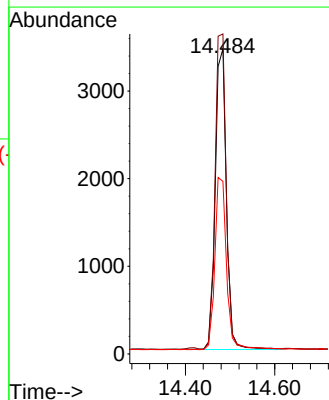
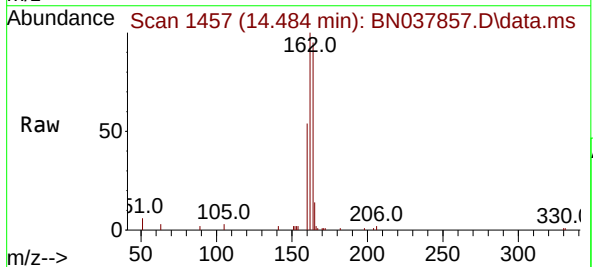
Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915DL

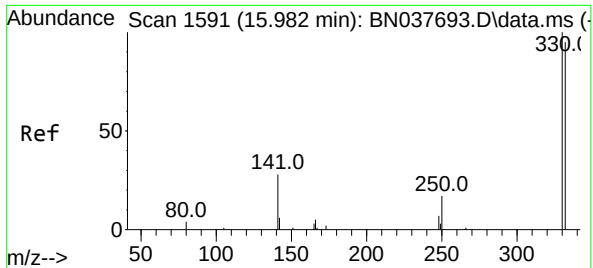
Tgt Ion:152 Resp: 2837
Ion Ratio Lower Upper
152 100
151 22.3 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037857.D
Acq: 22 Sep 2025 15:09

Tgt Ion:164 Resp: 5898
Ion Ratio Lower Upper
164 100
162 104.9 83.1 124.7
160 56.5 44.3 66.5



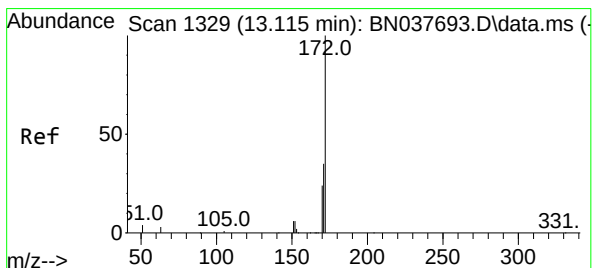
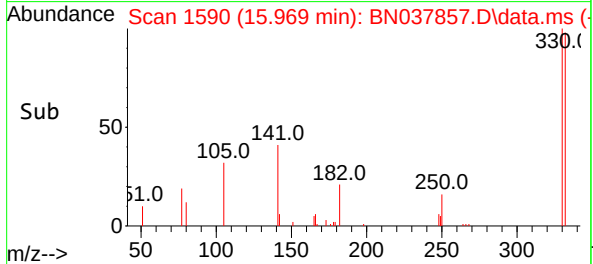
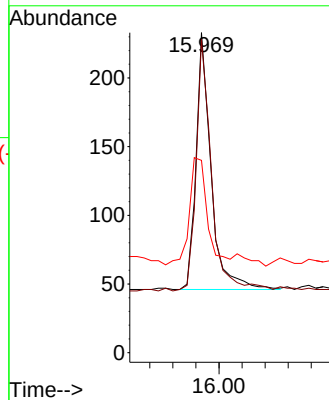
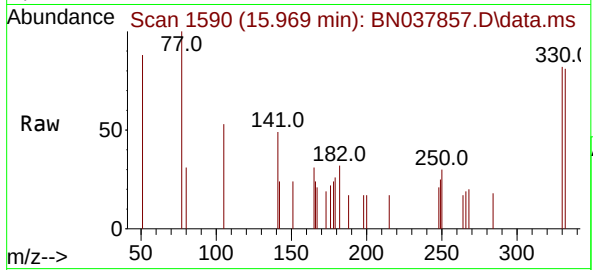


#14
2,4,6-Tribromophenol
Concen: 0.220 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037857.D
Acq: 22 Sep 2025 15:09

Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915DL

Tgt Ion	330	Resp	338
Ion Ratio	100		
Lower	75.3		
Upper	112.9		

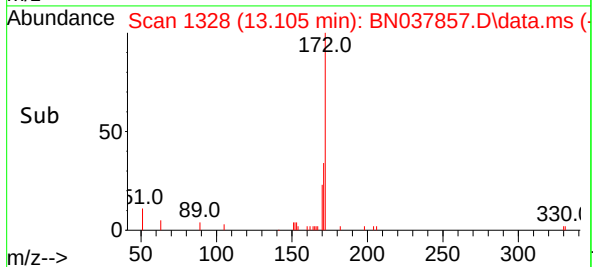
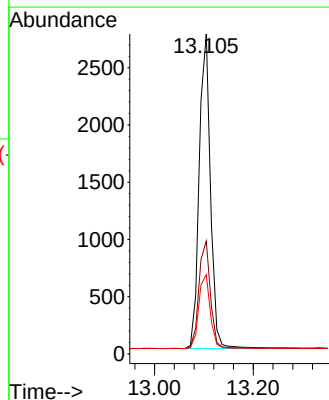
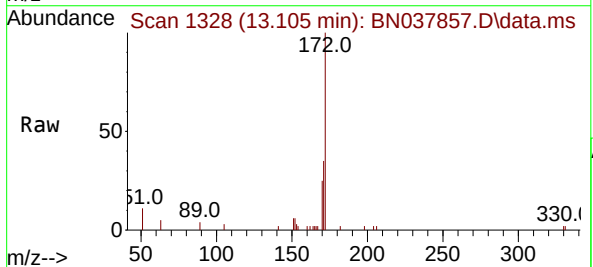
Ion	332	Ratio	Lower	Upper
332	100.0		75.3	112.9
141	49.1		35.0	52.4

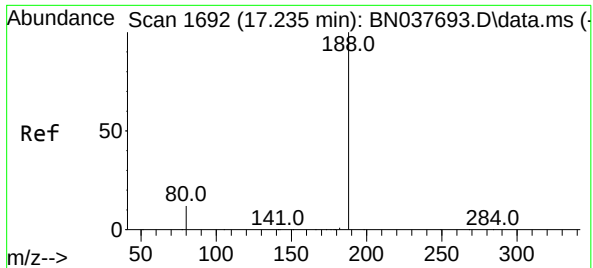


#15
2-Fluorobiphenyl
Concen: 0.177 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037857.D
Acq: 22 Sep 2025 15:09

Tgt Ion	172	Resp	4355
Ion Ratio	100		
Lower	28.6		
Upper	43.0		

Ion	171	Ratio	Lower	Upper
171	35.3		28.6	43.0
170	24.7		19.8	29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN037857.D

Acq: 22 Sep 2025 15:09

Instrument :

BNA_N

ClientSampleId :

TT101D2-20250915DL

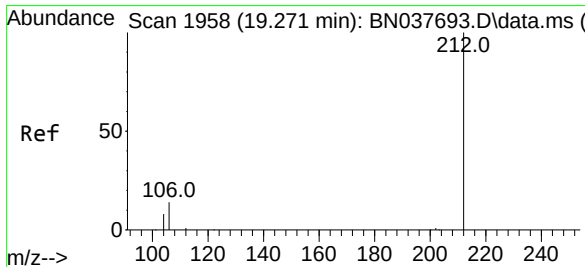
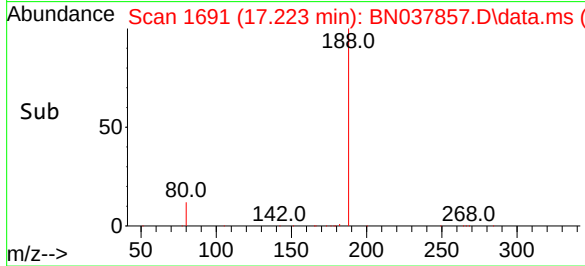
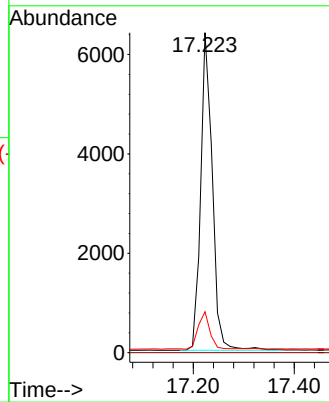
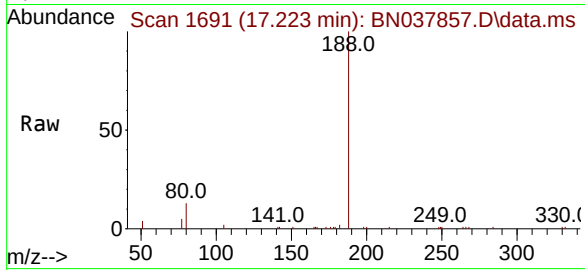
Tgt Ion:188 Resp: 10257

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.8 10.6 15.8



#27

Fluoranthene-d10

Concen: 0.194 ng

RT: 19.257 min Scan# 1955

Delta R.T. -0.014 min

Lab File: BN037857.D

Acq: 22 Sep 2025 15:09

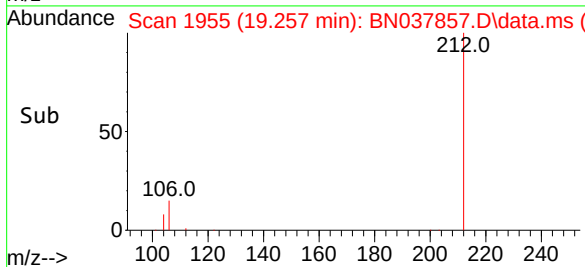
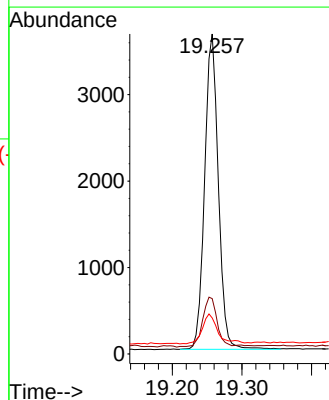
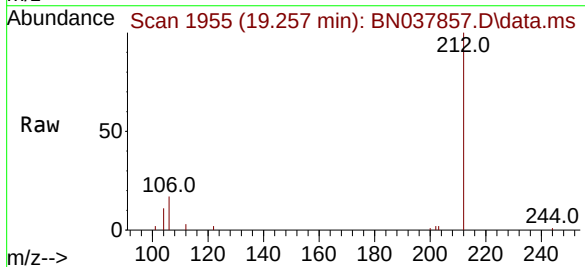
Tgt Ion:212 Resp: 4984

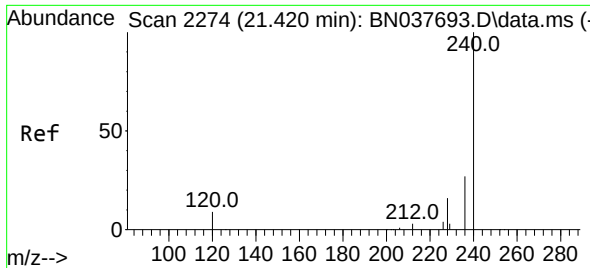
Ion Ratio Lower Upper

212 100

106 16.8 12.2 18.2

104 10.8 6.9 10.3#

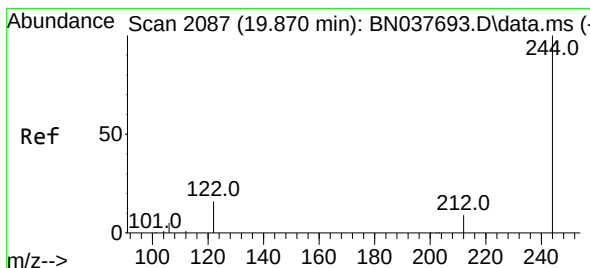
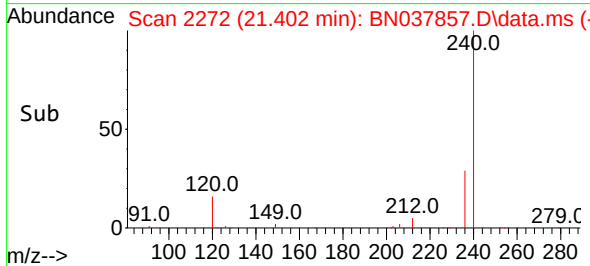
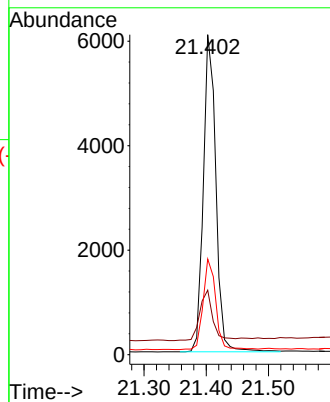
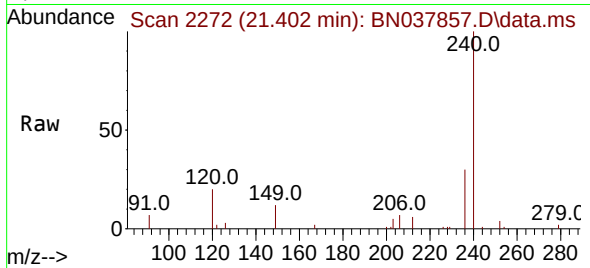




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037857.D
Acq: 22 Sep 2025 15:09

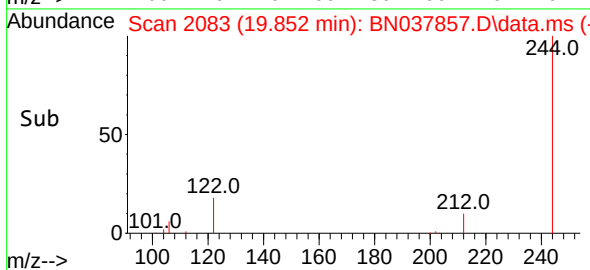
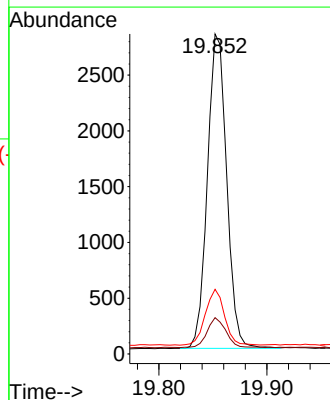
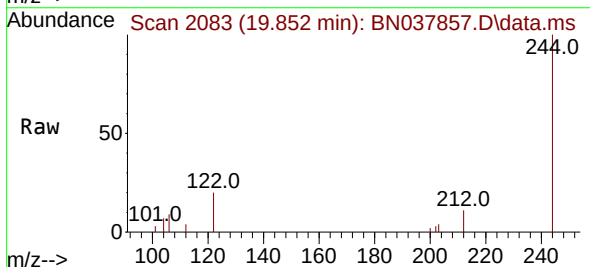
Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915DL

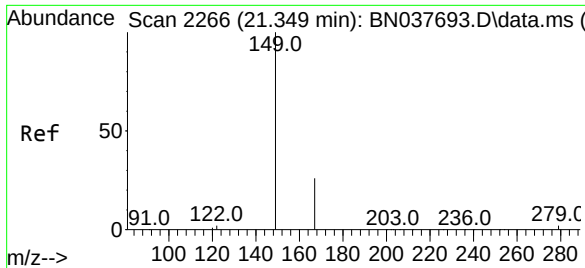
Tgt Ion	Ratio	Lower	Upper
240	100		
120	20.2	9.2	13.8#
236	29.9	22.6	33.8



#31
Terphenyl-d14
Concen: 0.203 ng
RT: 19.852 min Scan# 2083
Delta R.T. -0.019 min
Lab File: BN037857.D
Acq: 22 Sep 2025 15:09

Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.4	7.5	11.3#
122	20.2	13.2	19.8#

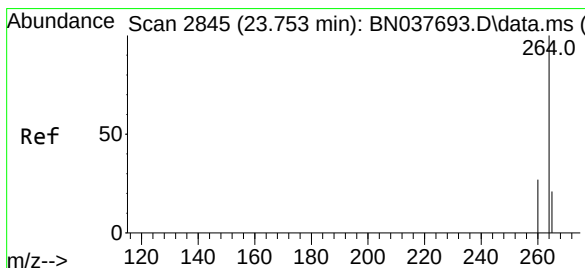
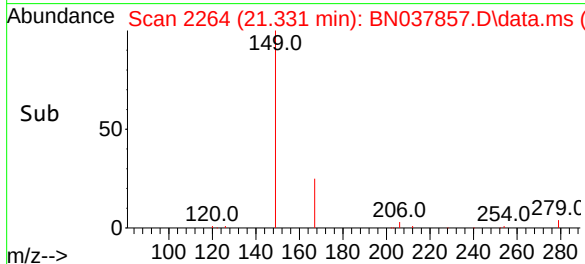
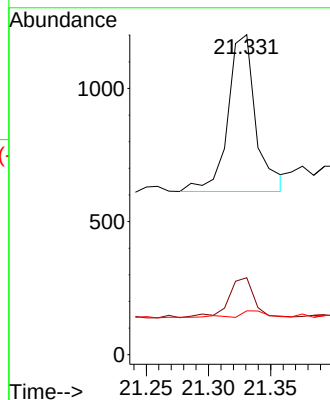
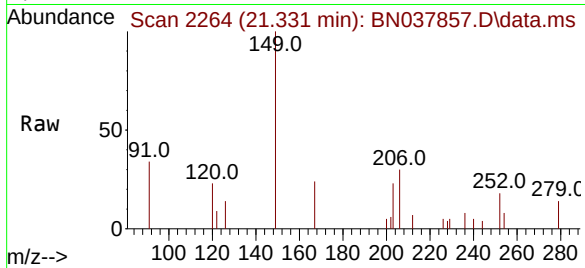




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.105 ng
RT: 21.331 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037857.D
Acq: 22 Sep 2025 15:09

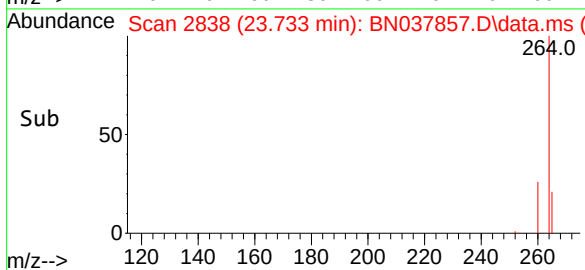
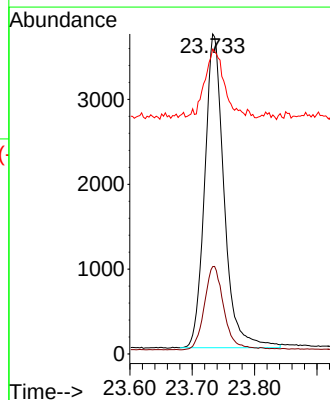
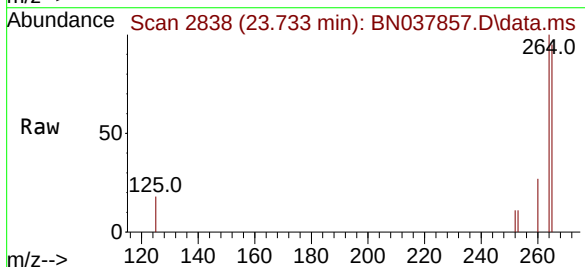
Instrument :
BNA_N
ClientSampleId :
TT101D2-20250915DL

Tgt Ion:149 Resp: 925
Ion Ratio Lower Upper
149 100
167 23.6 20.8 31.2
279 3.8 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: BN037857.D
Acq: 22 Sep 2025 15:09

Tgt Ion:264 Resp: 7996
Ion Ratio Lower Upper
264 100
260 27.3 21.8 32.8
265 95.2 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/17/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/17/25
Client Sample ID:	BPOW1-8-20250917	SDG No.:	Q3127
Lab Sample ID:	Q3127-18	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
BN037845.D	1	09/18/25 11:35	09/20/25 10:27	PB169743

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	0.26		30 - 150		66%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		85%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		76%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		94%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6010	7.825				
1146-65-2	Naphthalene-d8	15900	10.626				
15067-26-2	Acenaphthene-d10	6560	14.484				
1517-22-2	Phenanthrene-d10	10900	17.223				
1719-03-5	Chrysene-d12	9080	21.402				
1520-96-3	Perylene-d12	8740	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\BN091925\
Data File : BN037845.D
Acq On : 20 Sep 2025 10:27
Operator : RC/JU
Sample : Q3127-18
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250917

Quant Time: Sep 22 00:37:34 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

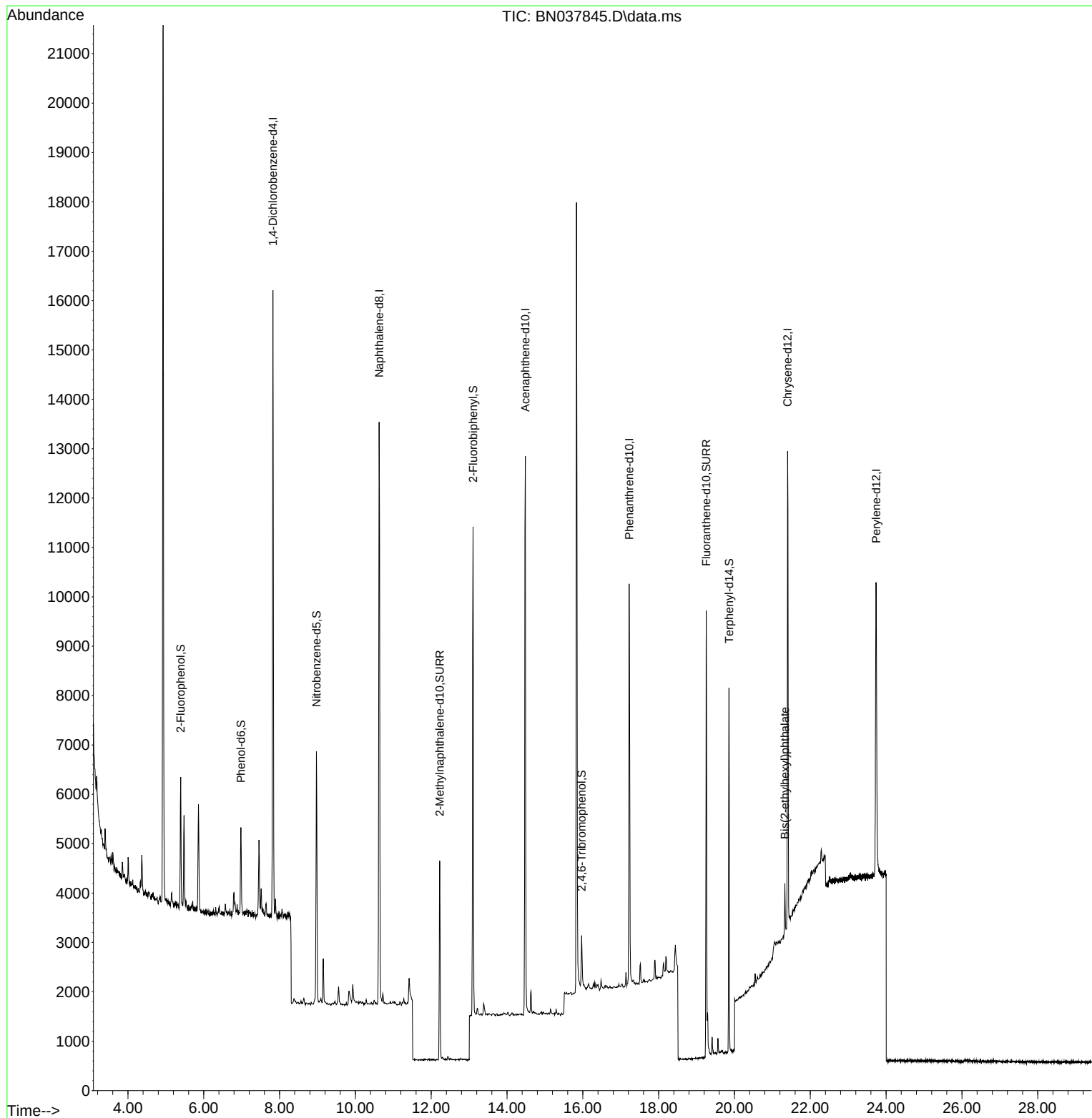
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	6014	0.400	ng	-0.01
7) Naphthalene-d8	10.626	136	15872	0.400	ng	-0.02
13) Acenaphthene-d10	14.484	164	6555	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	10938	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	9081	0.400	ng	#-0.02
35) Perylene-d12	23.738	264	8738	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.391	112	2015	0.146	ng	0.00
5) Phenol-d6	6.980	99	1517	0.085	ng	0.00
8) Nitrobenzene-d5	8.971	82	3959	0.341	ng	-0.02
11) 2-Methylnaphthalene-d10	12.222	152	5555	0.264	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	649	0.380	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	8358	0.305	ng	-0.01
27) Fluoranthene-d10	19.257	212	9848	0.359	ng	-0.01
31) Terphenyl-d14	19.856	244	6962	0.378	ng	-0.01
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.331	149	1041	0.111	ng	Qvalue # 95

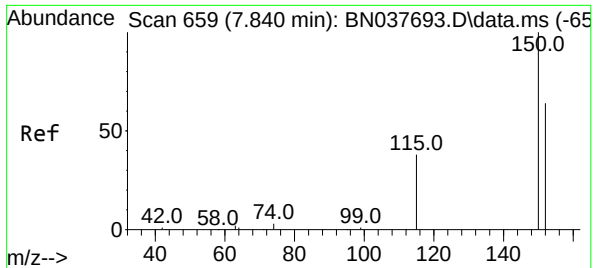
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037845.D
Acq On : 20 Sep 2025 10:27
Operator : RC/JU
Sample : Q3127-18
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250917

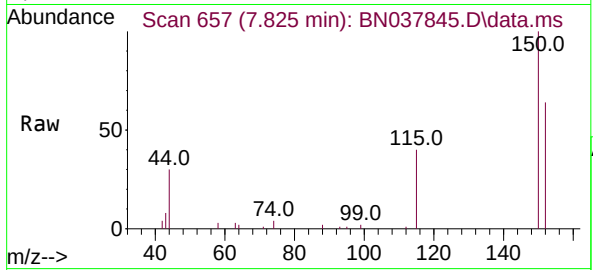
Quant Time: Sep 22 00:37:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



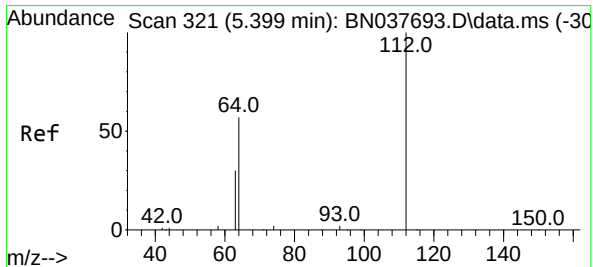
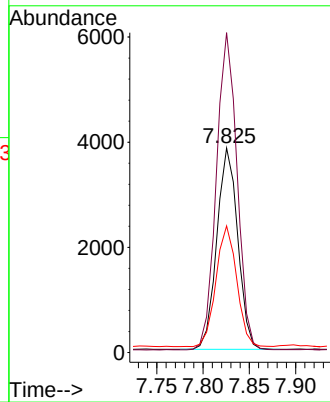
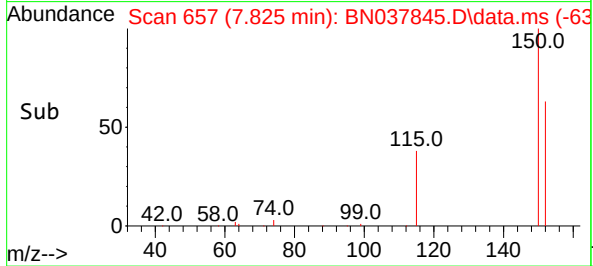


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN037845.D
Acq: 20 Sep 2025 10:27

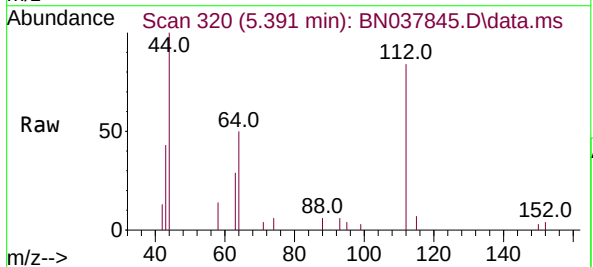
Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250917



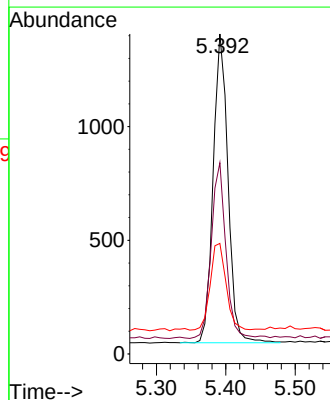
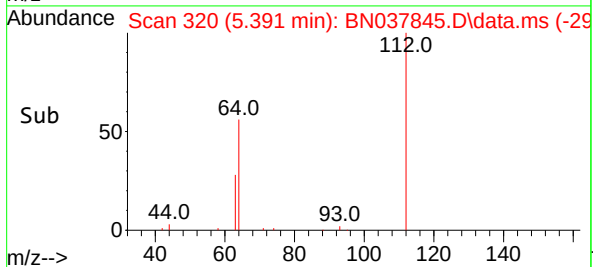
Tgt Ion:152 Resp: 6014
Ion Ratio Lower Upper
152 100
150 156.5 124.5 186.7
115 61.9 49.2 73.8

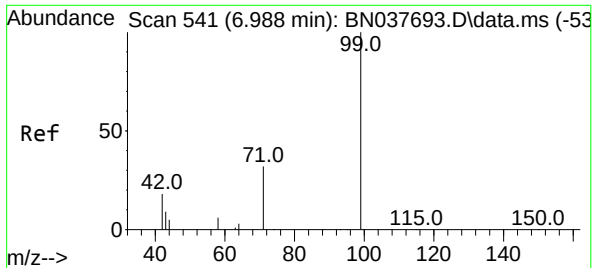


#4
2-Fluorophenol
Concen: 0.146 ng
RT: 5.391 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037845.D
Acq: 20 Sep 2025 10:27



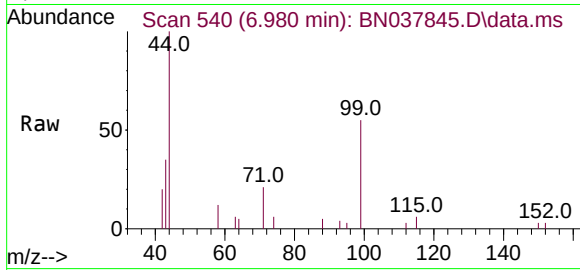
Tgt Ion:112 Resp: 2015
Ion Ratio Lower Upper
112 100
64 56.0 44.9 67.3
63 30.0 24.7 37.1



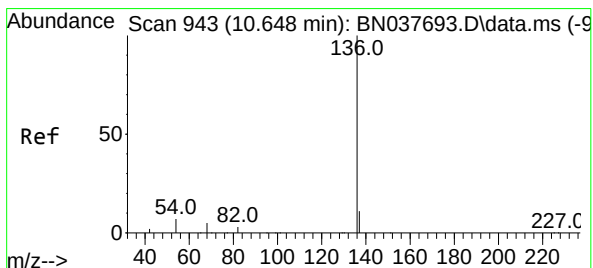
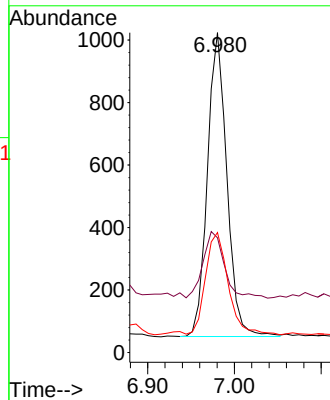
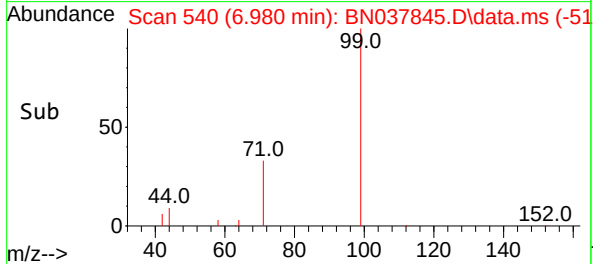


#5
Phenol-d6
Concen: 0.085 ng
RT: 6.980 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037845.D
Acq: 20 Sep 2025 10:27

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250917

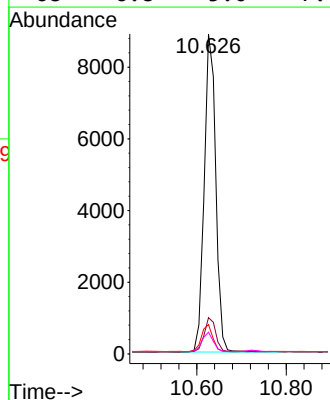
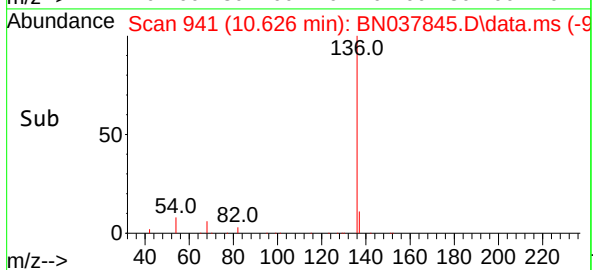
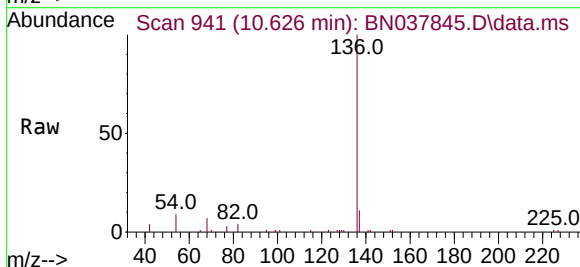


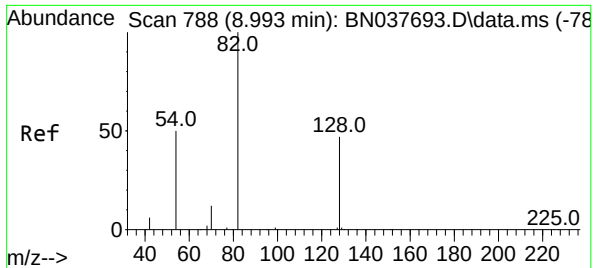
Tgt Ion:	99	Resp:	1517
Ion	Ratio	Lower	Upper
99	100		
42	23.9	16.6	24.8
71	39.0	26.7	40.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.022 min
Lab File: BN037845.D
Acq: 20 Sep 2025 10:27

Tgt Ion:	136	Resp:	15872
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	9.2	6.3	9.5
68	6.8	5.0	7.4

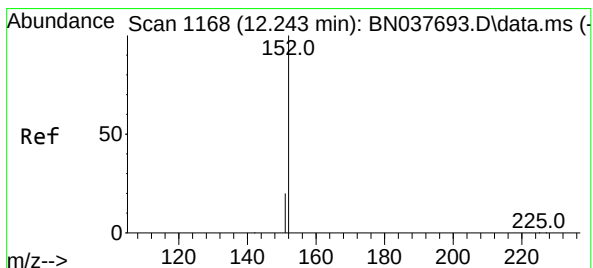
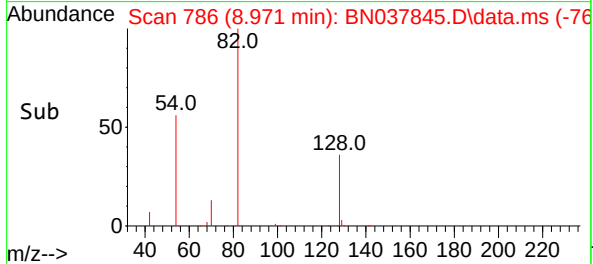
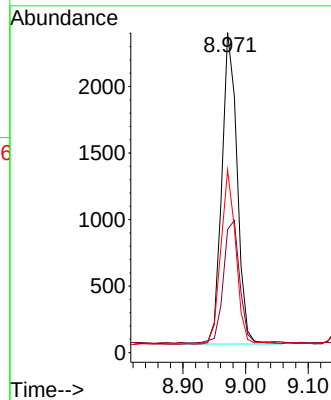
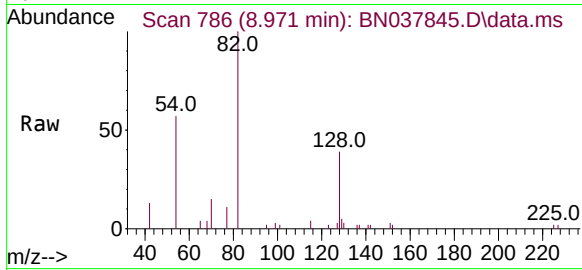




#8
Nitrobenzene-d5
Concen: 0.341 ng
RT: 8.971 min Scan# 788
Delta R.T. -0.022 min
Lab File: BN037845.D
Acq: 20 Sep 2025 10:27

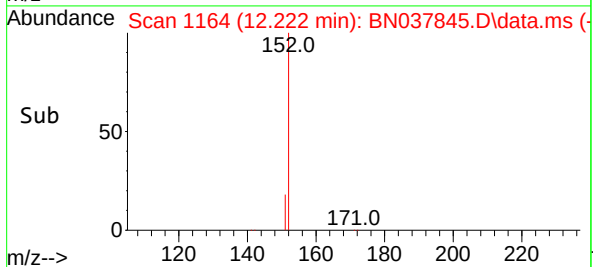
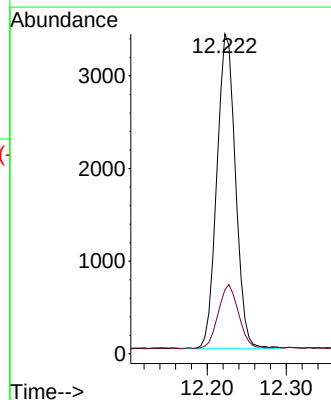
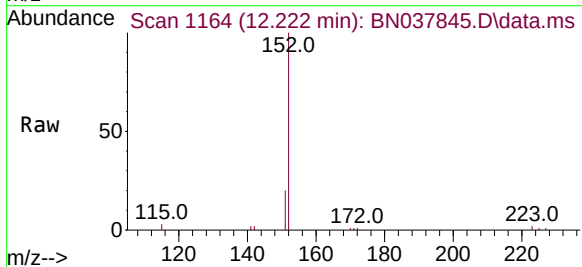
Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250917

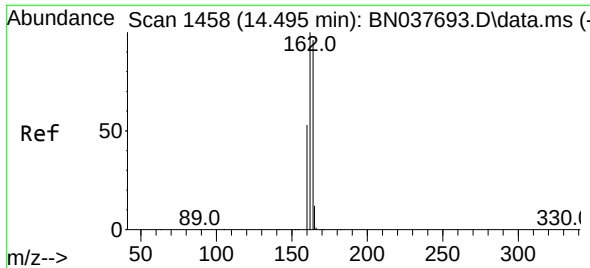
Tgt Ion:	82	Resp:	3959
Ion Ratio	Lower	Upper	
82	100		
128	38.5	38.3	57.5
54	57.1	41.4	62.2



#11
2-Methylnaphthalene-d10
Concen: 0.264 ng
RT: 12.222 min Scan# 1164
Delta R.T. -0.020 min
Lab File: BN037845.D
Acq: 20 Sep 2025 10:27

Tgt Ion:	152	Resp:	5555
Ion Ratio	Lower	Upper	
152	100		
151	22.0	17.0	25.6

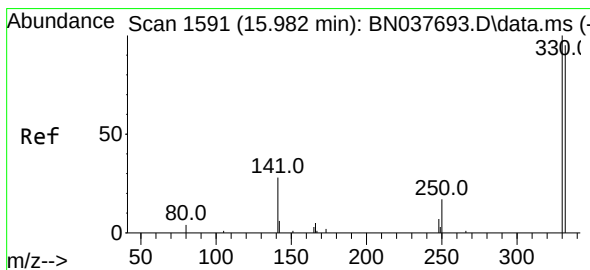
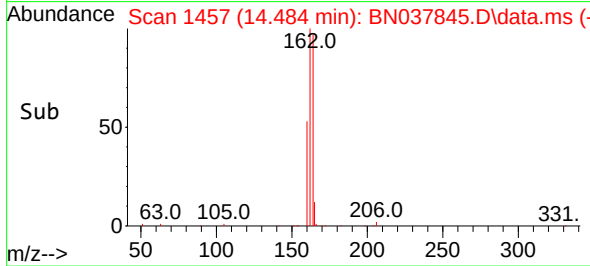
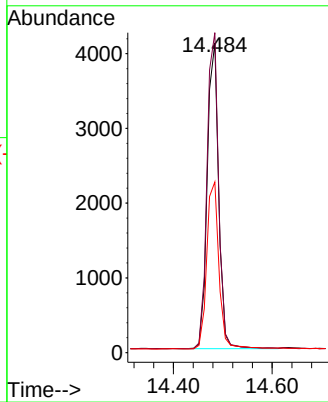
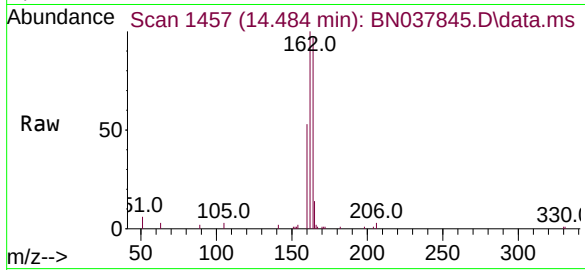




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1458
Delta R.T. -0.011 min
Lab File: BN037845.D
Acq: 20 Sep 2025 10:27

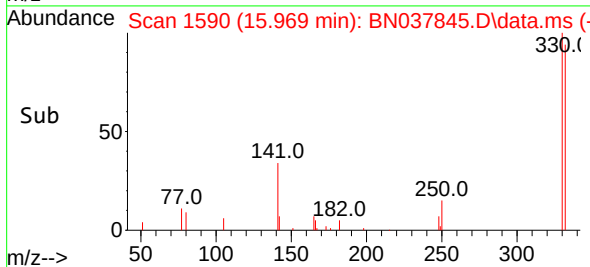
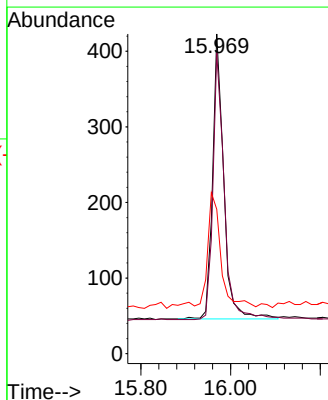
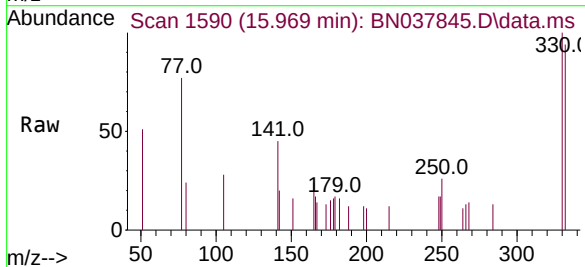
Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250917

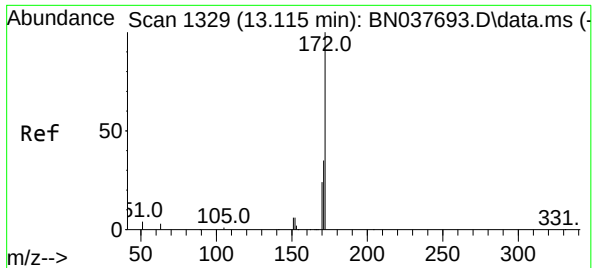
Tgt Ion:	164	Resp:	6555
Ion	Ratio	Lower	Upper
164	100		
162	103.4	83.1	124.7
160	55.1	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.380 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037845.D
Acq: 20 Sep 2025 10:27

Tgt Ion:	330	Resp:	649
Ion	Ratio	Lower	Upper
330	100		
332	95.8	75.3	112.9
141	51.5	35.0	52.4

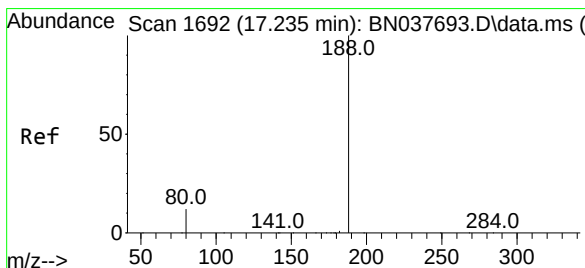
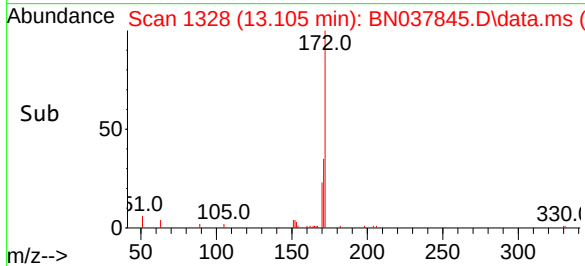
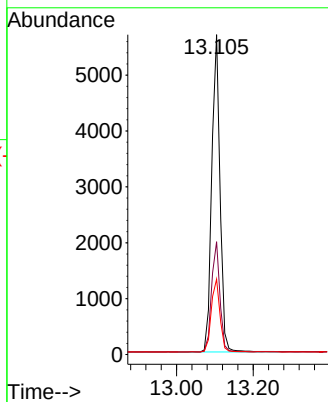
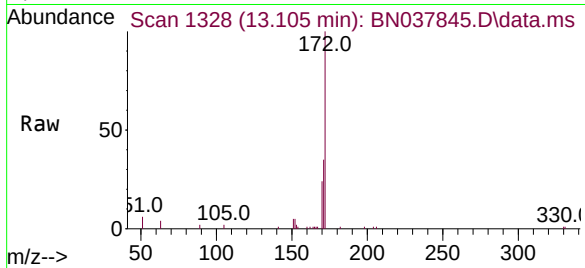




#15
2-Fluorobiphenyl
Concen: 0.305 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037845.D
Acq: 20 Sep 2025 10:27

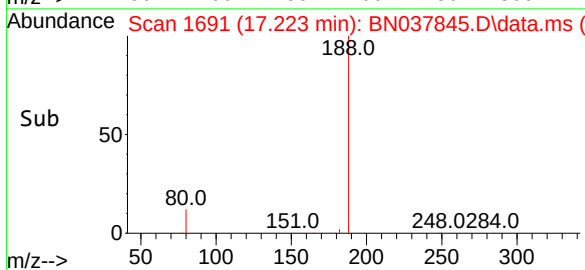
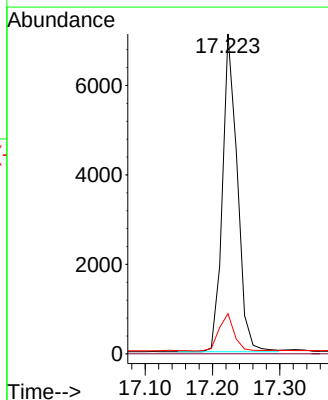
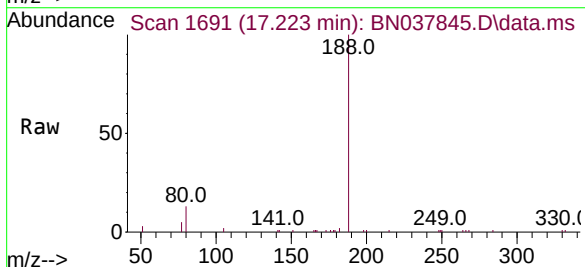
Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250917

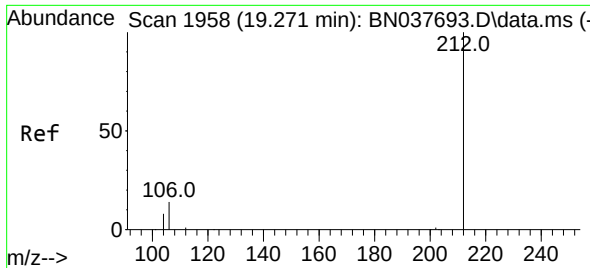
Tgt Ion:172	Resp:	8358
Ion Ratio	Lower	Upper
172	100	
171	35.3	28.6 43.0
170	23.6	19.8 29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.013 min
Lab File: BN037845.D
Acq: 20 Sep 2025 10:27

Tgt Ion:188	Resp:	10938
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0 0.0
80	12.6	10.6 15.8

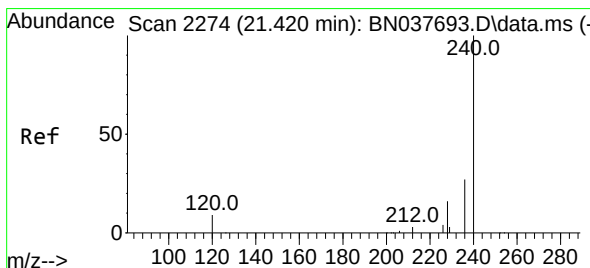
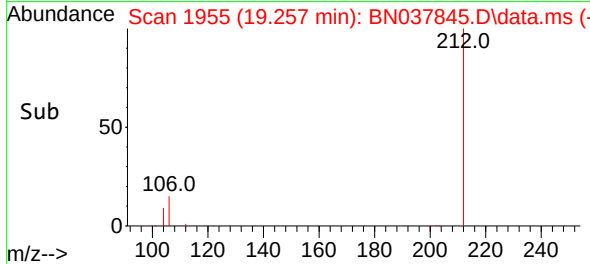
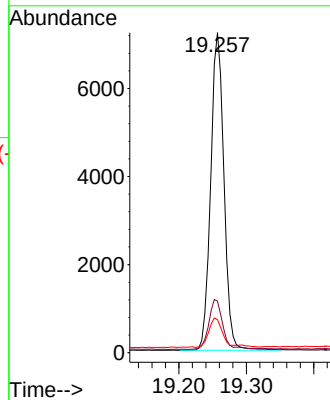
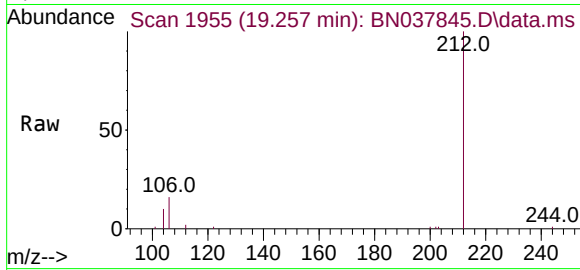




#27
Fluoranthene-d10
Concen: 0.359 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037845.D
Acq: 20 Sep 2025 10:27

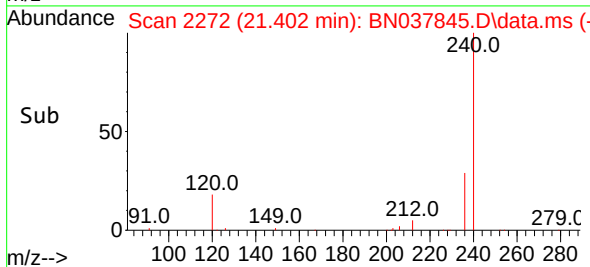
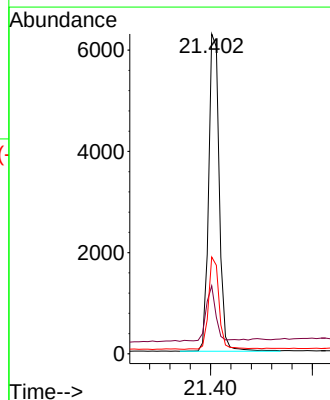
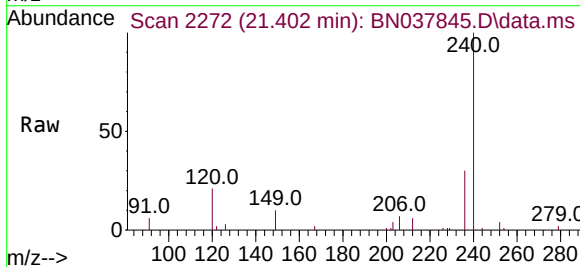
Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250917

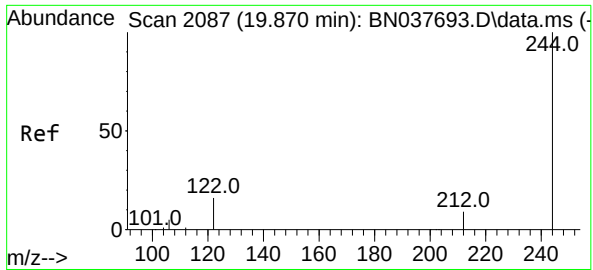
Tgt Ion:	212	Resp:	9848
Ion Ratio	Lower	Upper	
212	100		
106	16.3	12.2	18.2
104	9.2	6.9	10.3



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.018 min
Lab File: BN037845.D
Acq: 20 Sep 2025 10:27

Tgt Ion:	240	Resp:	9081
Ion Ratio	Lower	Upper	
240	100		
120	21.3	9.2	13.8
236	30.3	22.6	33.8

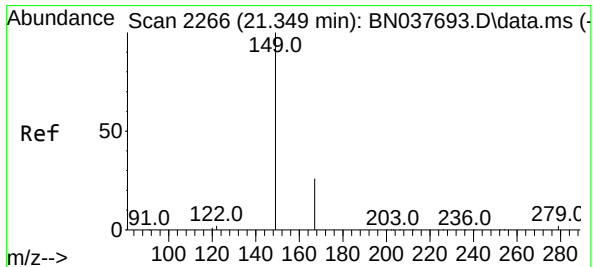
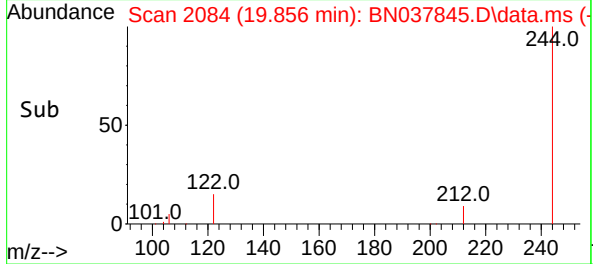
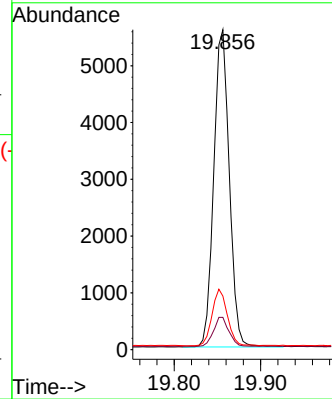
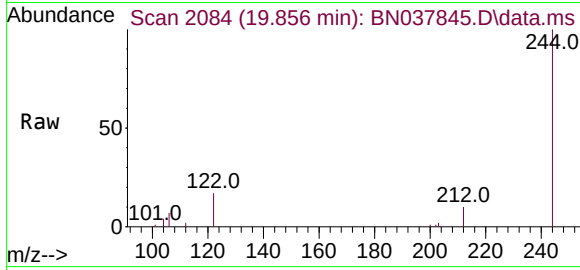




#31
Terphenyl-d14
Concen: 0.378 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037845.D
Acq: 20 Sep 2025 10:27

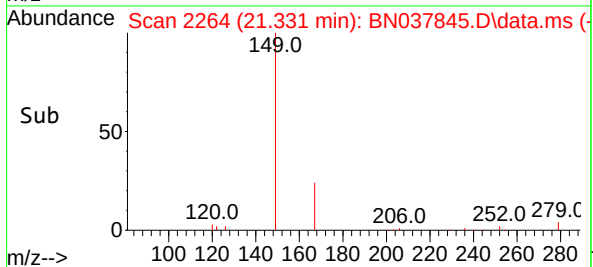
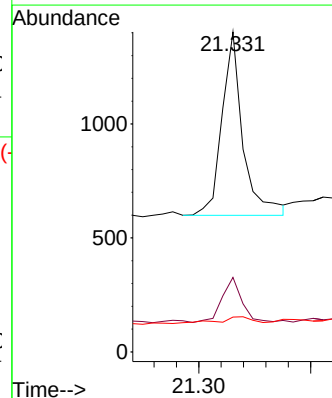
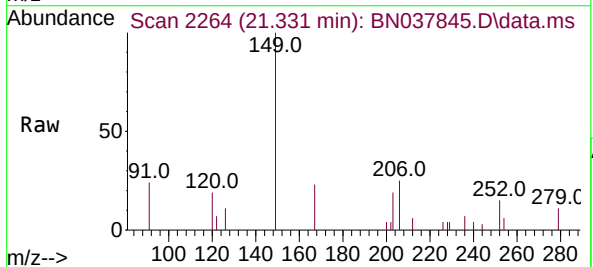
Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250917

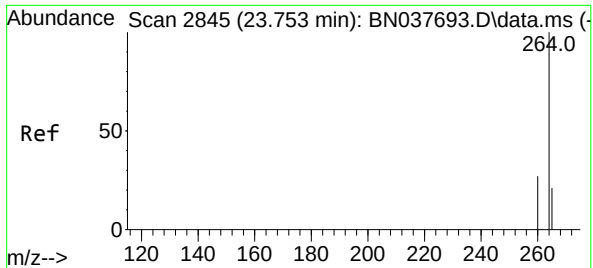
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.1	7.5	11.3
122	16.7	13.2	19.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.111 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037845.D
Acq: 20 Sep 2025 10:27

Tgt Ion	Ratio	Lower	Upper
149	100		
167	23.4	20.8	31.2
279	5.6	3.3	4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.738 min Scan# 2845

Delta R.T. -0.015 min

Lab File: BN037845.D

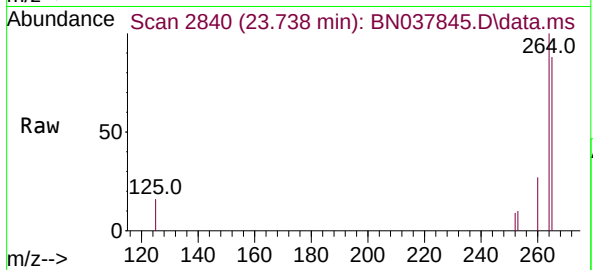
Acq: 20 Sep 2025 10:27

Instrument :

BNA_N

ClientSampleId :

BPOW1-8-20250917



Tgt Ion:264 Resp: 8738

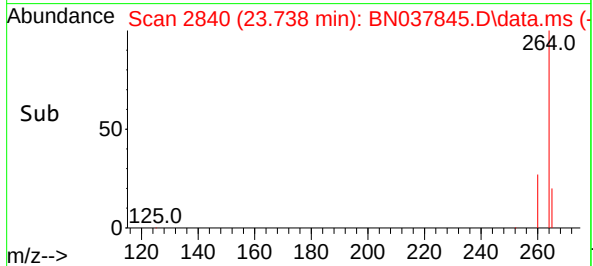
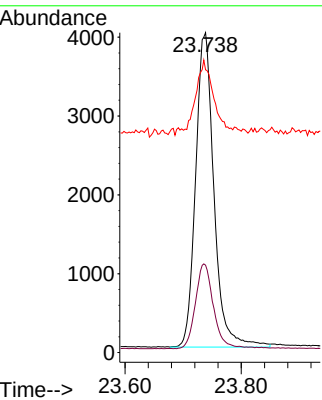
Ion	Ratio	Lower	Upper

264	100		

260	27.3	21.8	32.8

265	88.4	39.4	59.2

#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/17/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/17/25
Client Sample ID:	BPOW1-7-20250917	SDG No.:	Q3127
Lab Sample ID:	Q3127-19	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
BN037846.D	1	09/18/25 11:35	09/20/25 11:03	PB169743

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	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.40		55 - 111		100%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		92%	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	5580	7.825				
1146-65-2	Naphthalene-d8	14500	10.626				
15067-26-2	Acenaphthene-d10	6080	14.484				
1517-22-2	Phenanthrene-d10	10600	17.223				
1719-03-5	Chrysene-d12	9460	21.411				
1520-96-3	Perylene-d12	8870	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 : BN037846.D
Acq On : 20 Sep 2025 11:03
Operator : RC/JU
Sample : Q3127-19
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250917

Quant Time: Sep 22 00:37:48 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

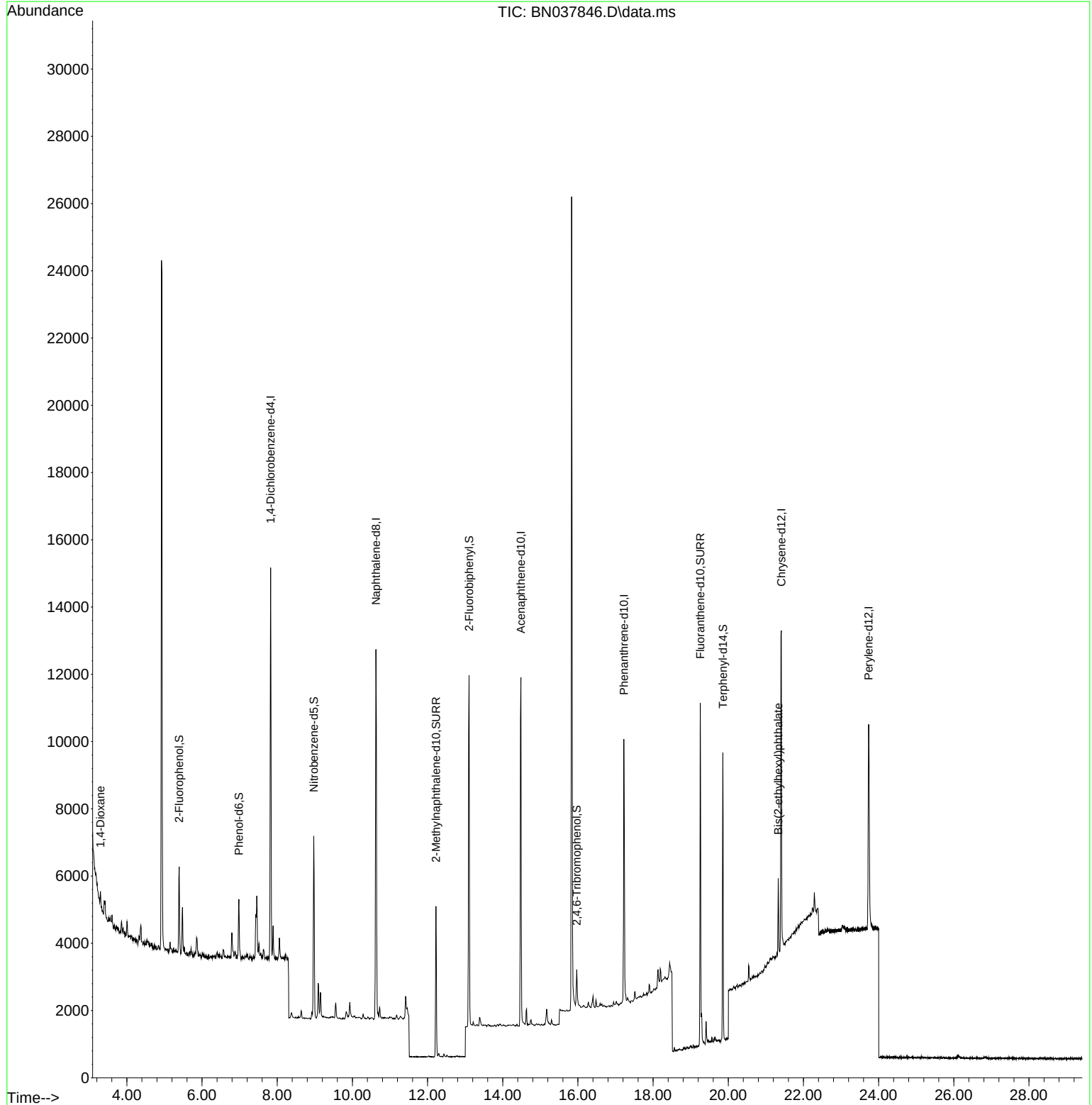
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5584	0.400	ng	-0.01
7) Naphthalene-d8	10.626	136	14527	0.400	ng	-0.02
13) Acenaphthene-d10	14.484	164	6076	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	10584	0.400	ng	-0.01
29) Chrysene-d12	21.411	240	9458	0.400	ng	0.00
35) Perylene-d12	23.736	264	8871	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1988	0.155	ng	0.00
5) Phenol-d6	6.981	99	1507	0.091	ng	0.00
8) Nitrobenzene-d5	8.971	82	4234	0.398	ng	-0.02
11) 2-Methylnaphthalene-d10	12.222	152	6160	0.320	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	689	0.435	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	9319	0.367	ng	-0.01
27) Fluoranthene-d10	19.257	212	10808	0.407	ng	-0.01
31) Terphenyl-d14	19.856	244	7918	0.412	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	201	0.035	ng	# 11
34) Bis(2-ethylhexyl)phtha...	21.331	149	2131	0.218	ng	97

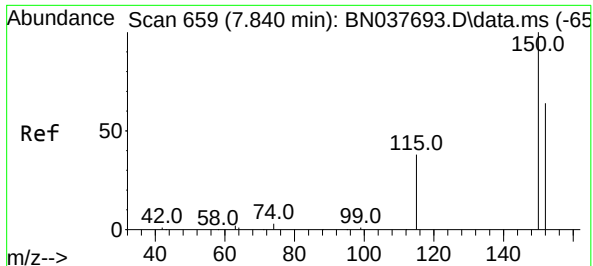
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037846.D
Acq On : 20 Sep 2025 11:03
Operator : RC/JU
Sample : Q3127-19
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250917

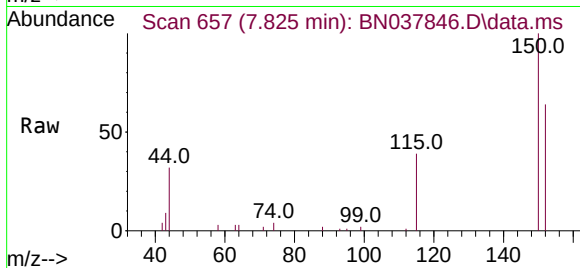
Quant Time: Sep 22 00:37:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



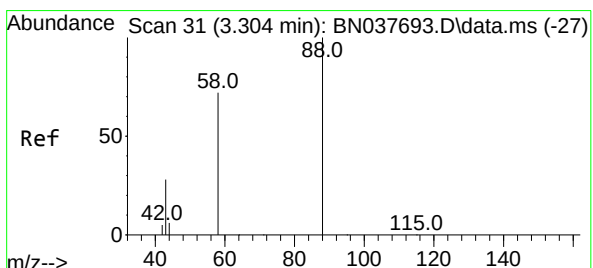
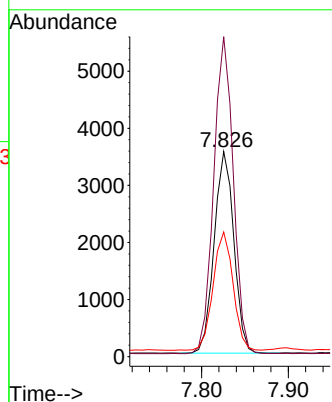


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. -0.014 min
Lab File: BN037846.D
Acq: 20 Sep 2025 11:03

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250917

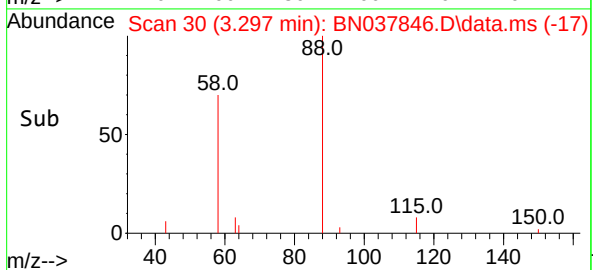
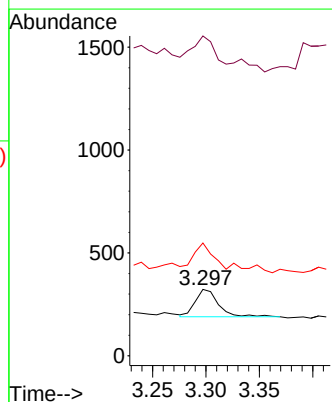
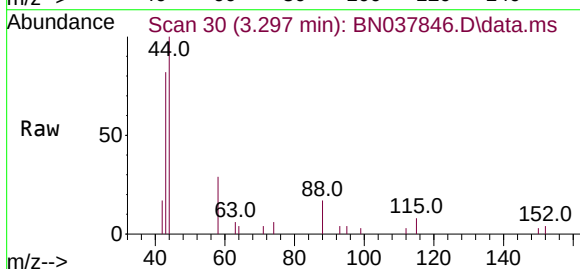


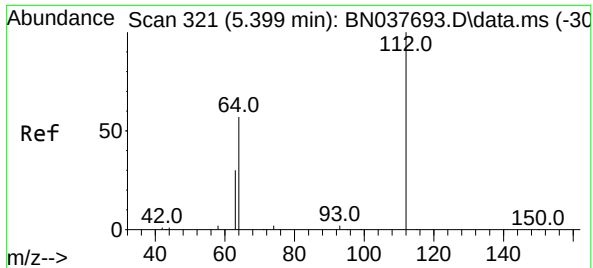
Tgt Ion:152 Resp: 5584
Ion Ratio Lower Upper
152 100
150 156.1 124.5 186.7
115 60.8 49.2 73.8



#2
1,4-Dioxane
Concen: 0.035 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037846.D
Acq: 20 Sep 2025 11:03

Tgt Ion: 88 Resp: 201
Ion Ratio Lower Upper
88 100
43 89.6 26.8 40.2#
58 150.7 61.9 92.9#

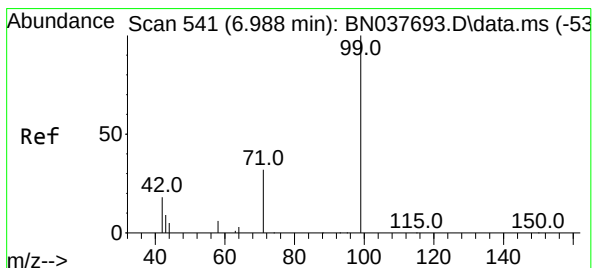
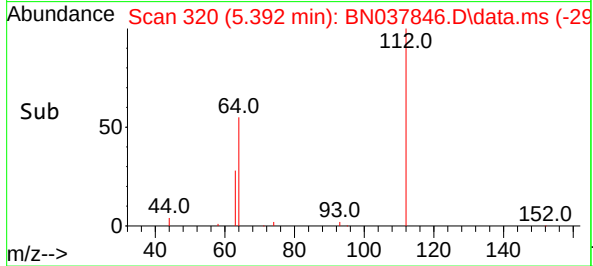
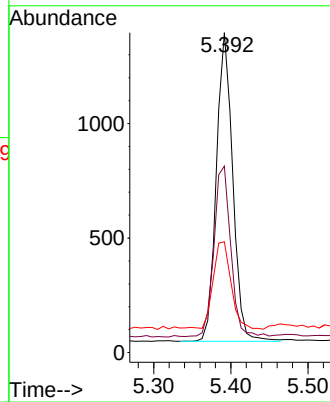
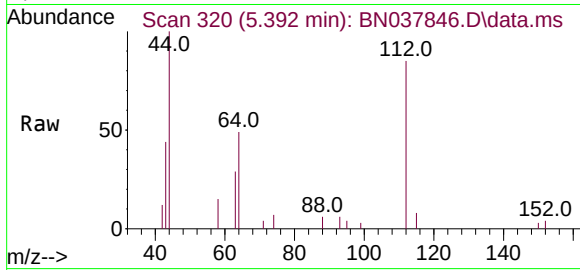




#4
2-Fluorophenol
Concen: 0.155 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037846.D
Acq: 20 Sep 2025 11:03

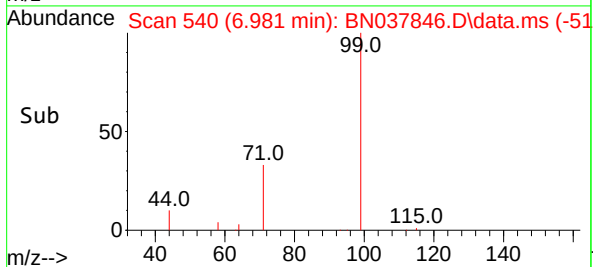
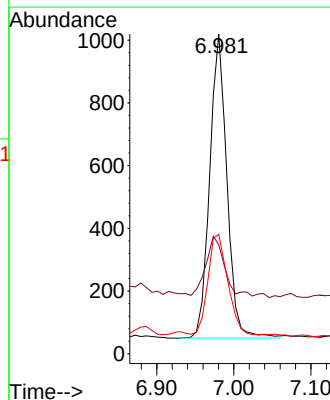
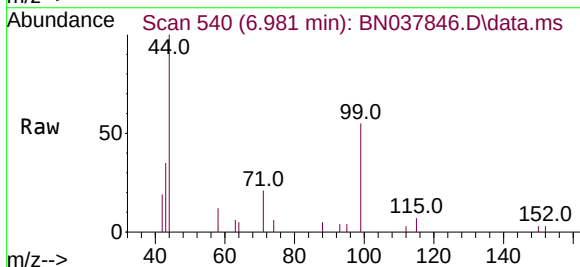
Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250917

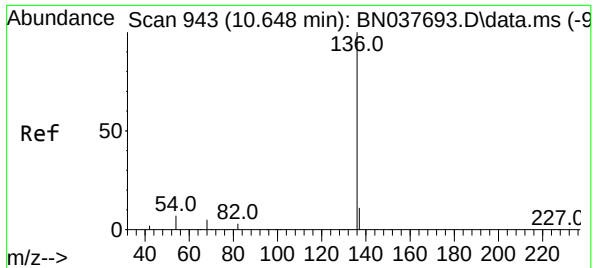
Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.8	44.9	67.3
63	31.0	24.7	37.1



#5
Phenol-d6
Concen: 0.091 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037846.D
Acq: 20 Sep 2025 11:03

Tgt Ion	Ratio	Lower	Upper
99	100		
42	23.0	16.6	24.8
71	37.6	26.7	40.1

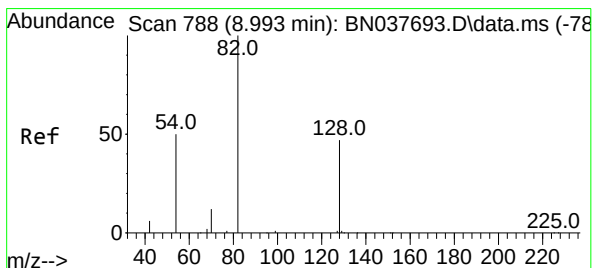
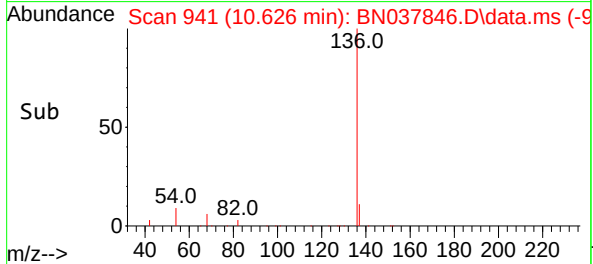
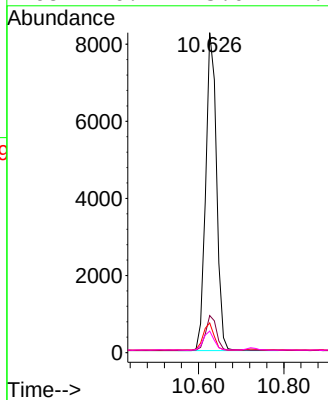
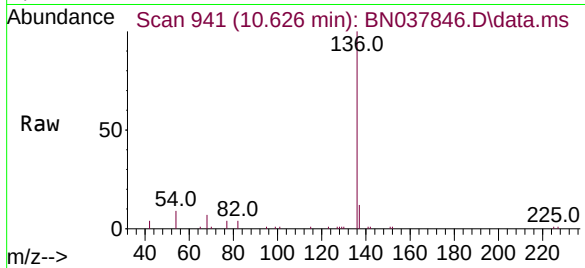




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. -0.021 min
Lab File: BN037846.D
Acq: 20 Sep 2025 11:03

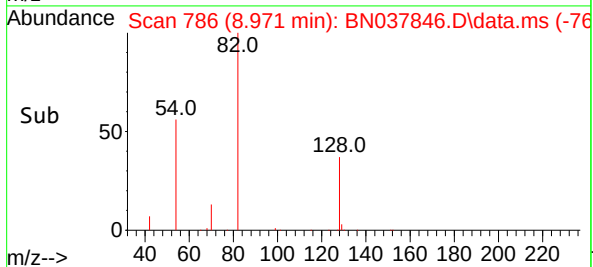
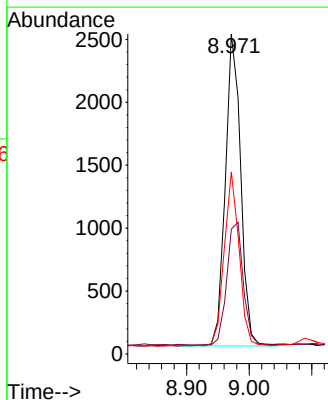
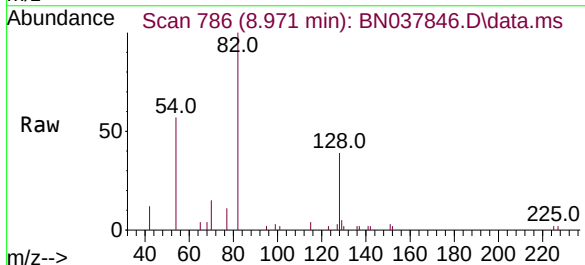
Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250917

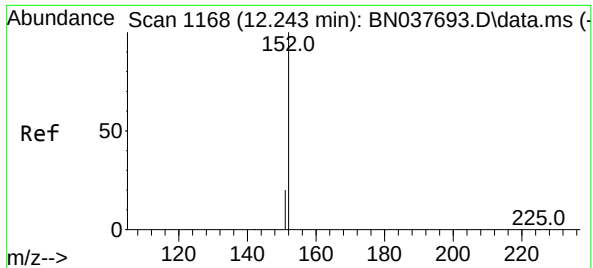
Tgt Ion:136	Resp:	14527
Ion	Ratio	Lower Upper
136	100	
137	11.6	9.1 13.7
54	9.3	6.3 9.5
68	6.7	5.0 7.4



#8
Nitrobenzene-d5
Concen: 0.398 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.021 min
Lab File: BN037846.D
Acq: 20 Sep 2025 11:03

Tgt Ion: 82	Resp:	4234
Ion	Ratio	Lower Upper
82	100	
128	39.0	38.3 57.5
54	56.9	41.4 62.2

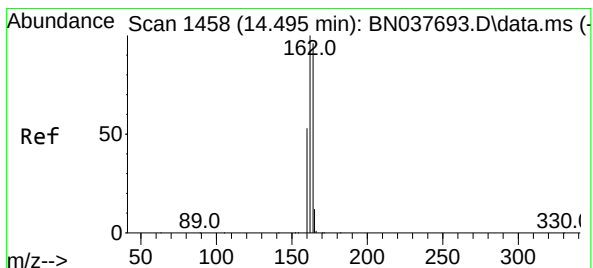
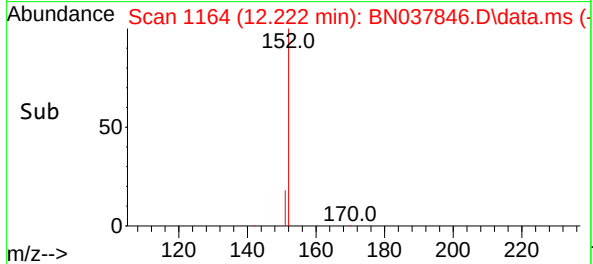
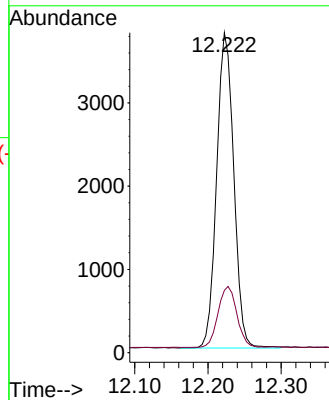
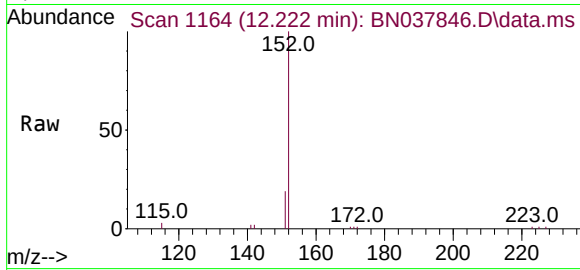




#11
2-Methylnaphthalene-d10
Concen: 0.320 ng
RT: 12.222 min Scan# 1164
Delta R.T. -0.020 min
Lab File: BN037846.D
Acq: 20 Sep 2025 11:03

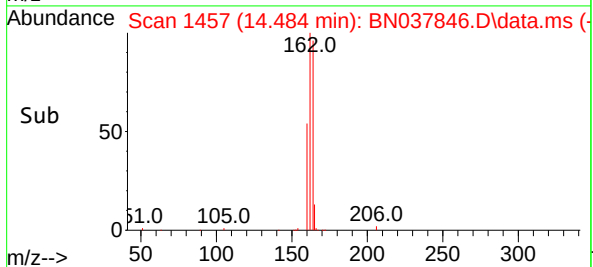
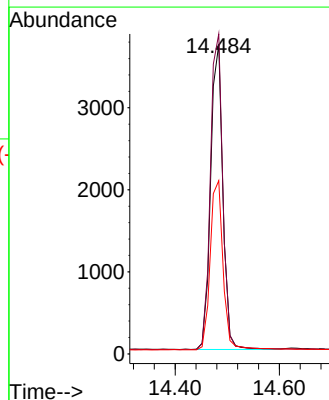
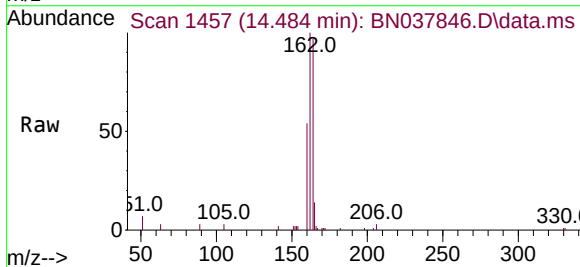
Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250917

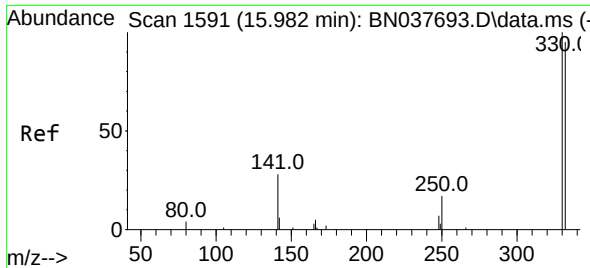
Tgt Ion:152 Resp: 6160
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037846.D
Acq: 20 Sep 2025 11:03

Tgt Ion:164 Resp: 6076
Ion Ratio Lower Upper
164 100
162 103.4 83.1 124.7
160 56.0 44.3 66.5

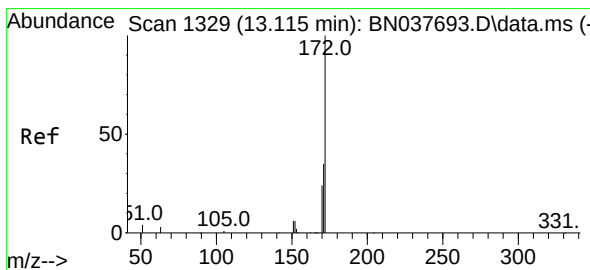
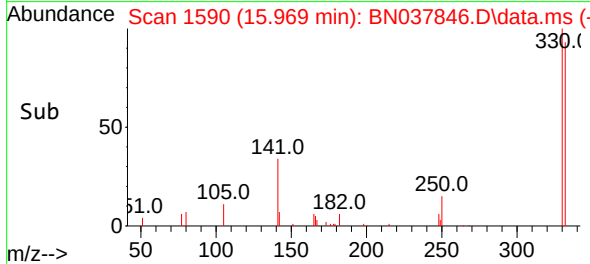
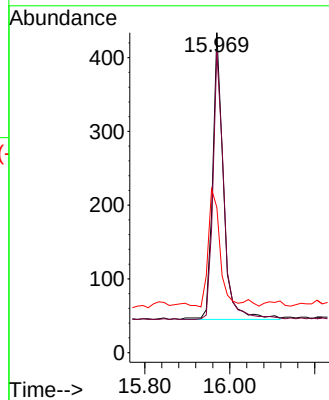
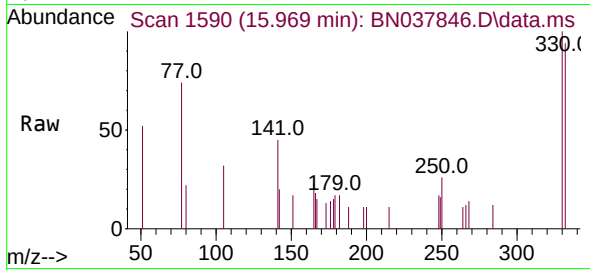




#14
2,4,6-Tribromophenol
Concen: 0.435 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037846.D
Acq: 20 Sep 2025 11:03

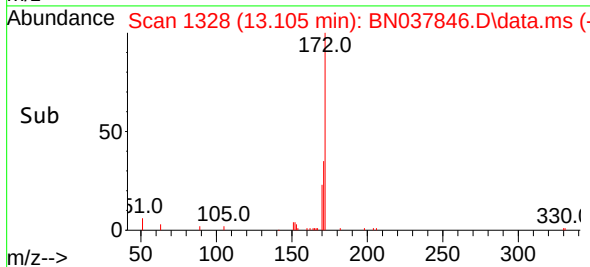
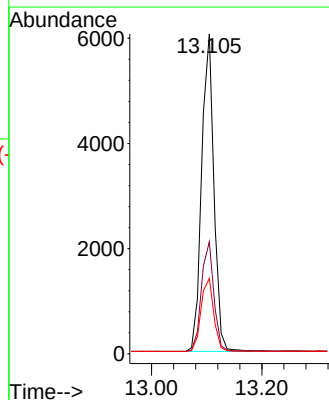
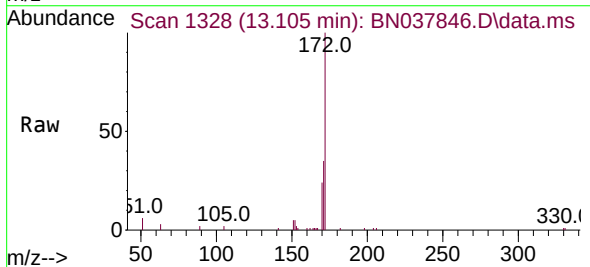
Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250917

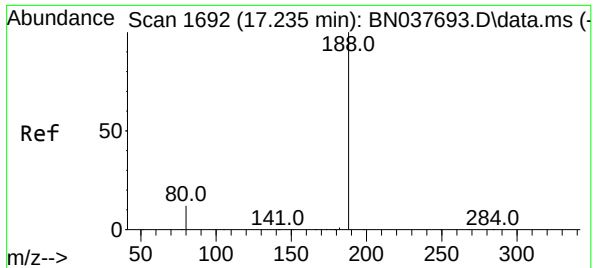
Tgt Ion	330	Ratio	100	Lower	Upper
330	100				
332	93.8		75.3	112.9	
141	42.4		35.0	52.4	



#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037846.D
Acq: 20 Sep 2025 11:03

Tgt Ion	172	Ratio	100	Lower	Upper
172	100				
171	35.0		28.6	43.0	
170	23.6		19.8	29.8	





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1692

Delta R.T. -0.012 min

Lab File: BN037846.D

Acq: 20 Sep 2025 11:03

Instrument :

BNA_N

ClientSampleId :

BPOW1-7-20250917

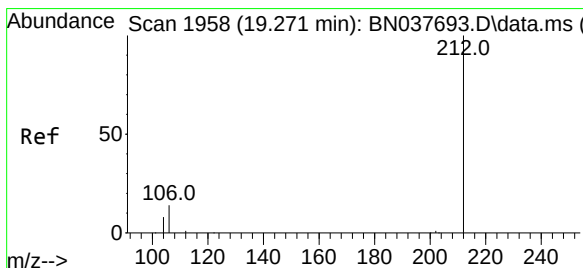
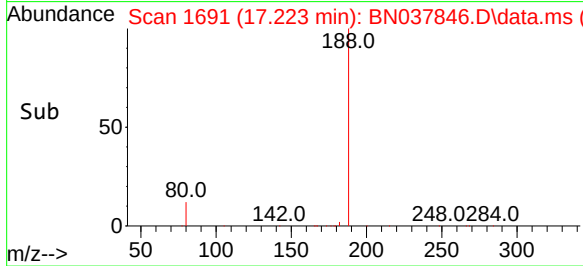
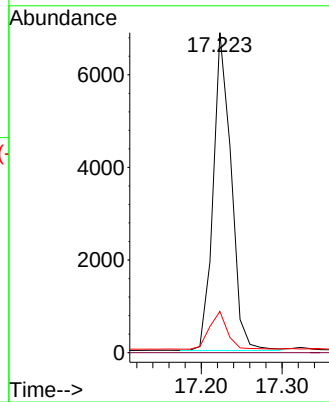
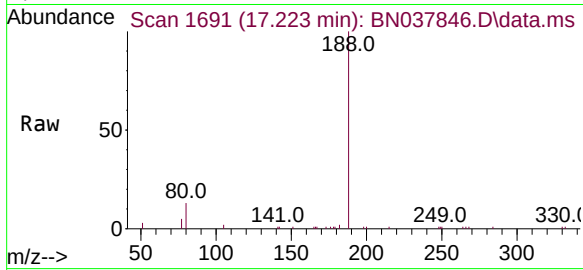
Tgt Ion:188 Resp: 10584

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.9 10.6 15.8



#27

Fluoranthene-d10

Concen: 0.407 ng

RT: 19.257 min Scan# 1955

Delta R.T. -0.014 min

Lab File: BN037846.D

Acq: 20 Sep 2025 11:03

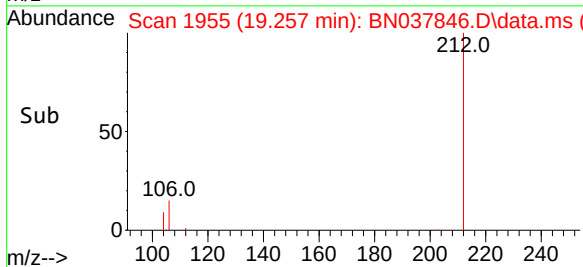
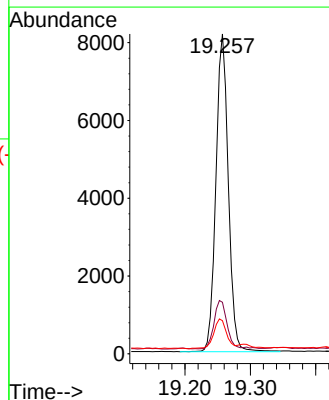
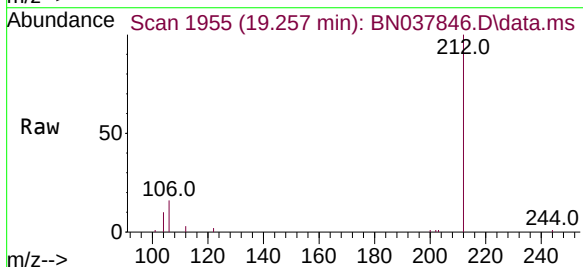
Tgt Ion:212 Resp: 10808

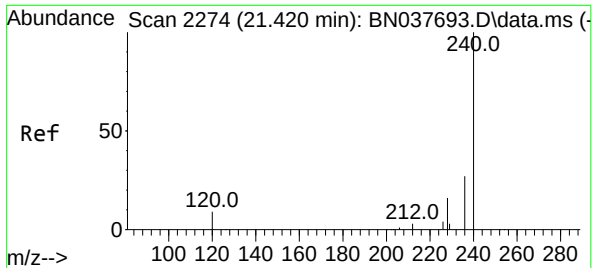
Ion Ratio Lower Upper

212 100

106 15.7 12.2 18.2

104 10.0 6.9 10.3

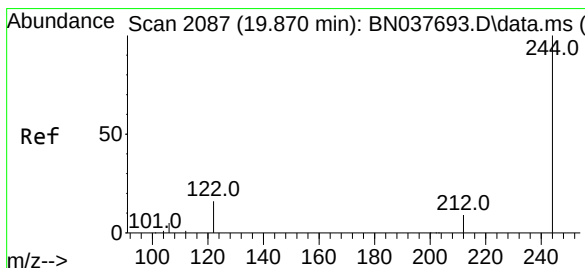
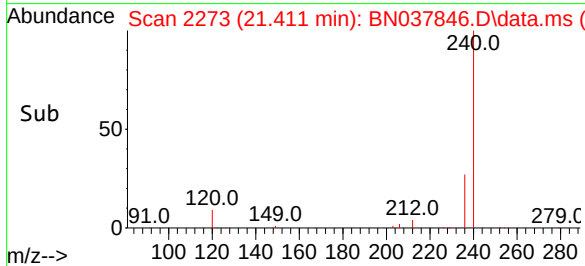
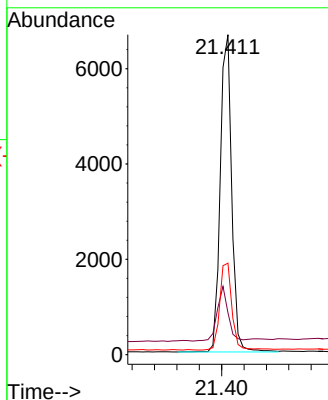
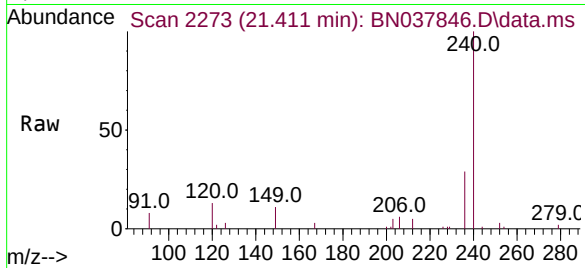




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037846.D
Acq: 20 Sep 2025 11:03

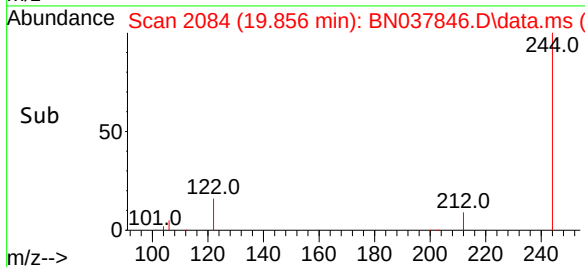
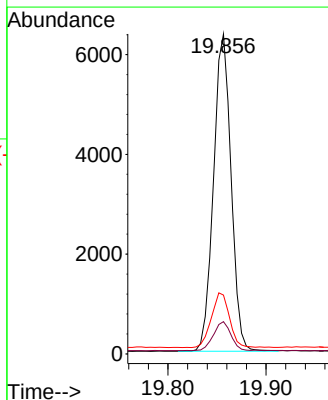
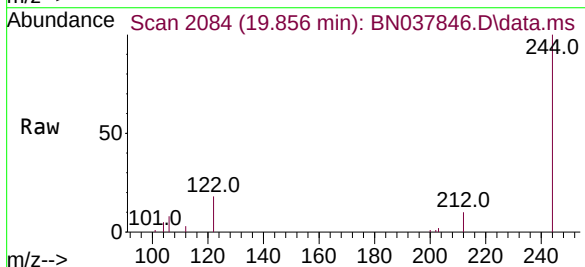
Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250917

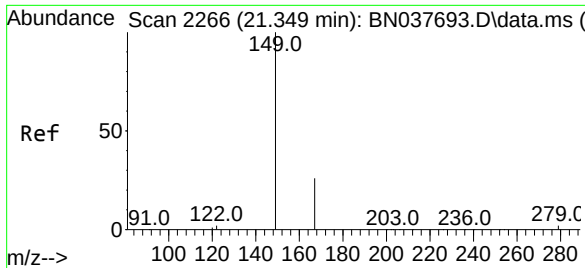
Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.1	9.2	13.8
236	28.6	22.6	33.8



#31
Terphenyl-d14
Concen: 0.412 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037846.D
Acq: 20 Sep 2025 11:03

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.1	7.5	11.3
122	18.4	13.2	19.8

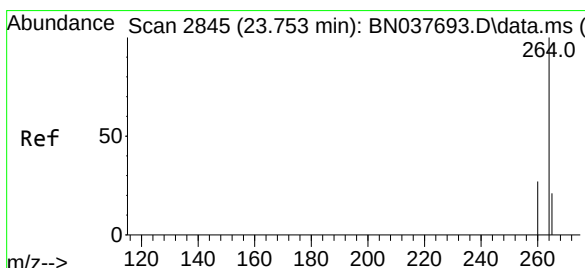
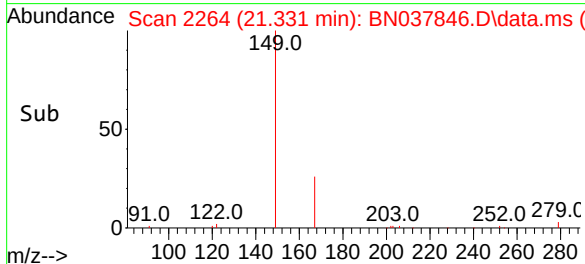
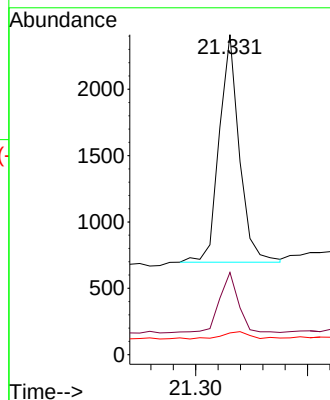
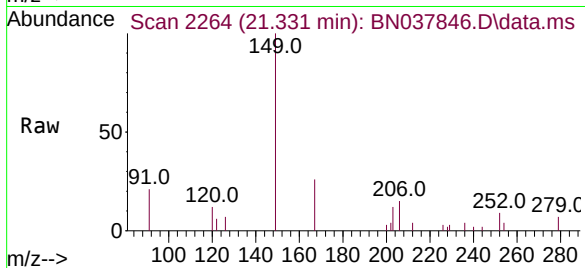




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.218 ng
RT: 21.331 min Scan# 2131
Delta R.T. -0.018 min
Lab File: BN037846.D
Acq: 20 Sep 2025 11:03

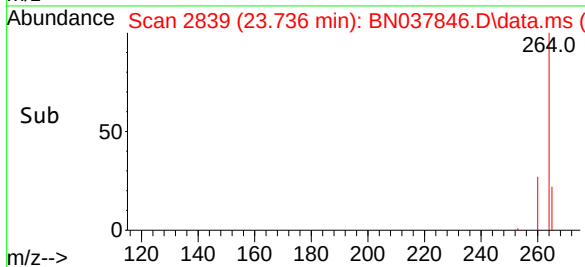
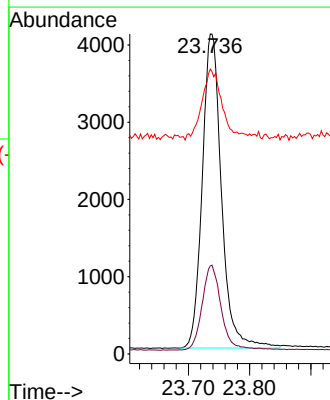
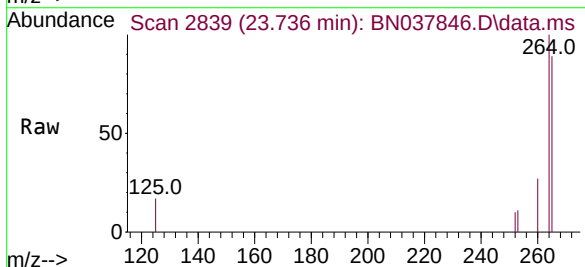
Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250917

Tgt Ion:149 Resp: 2131
Ion Ratio Lower Upper
149 100
167 24.5 20.8 31.2
279 4.7 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: BN037846.D
Acq: 20 Sep 2025 11:03

Tgt Ion:264 Resp: 8871
Ion Ratio Lower Upper
264 100
260 27.5 21.8 32.8
265 89.0 39.4 59.2#





CALIBRATION SUMMARY

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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) SURR2	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

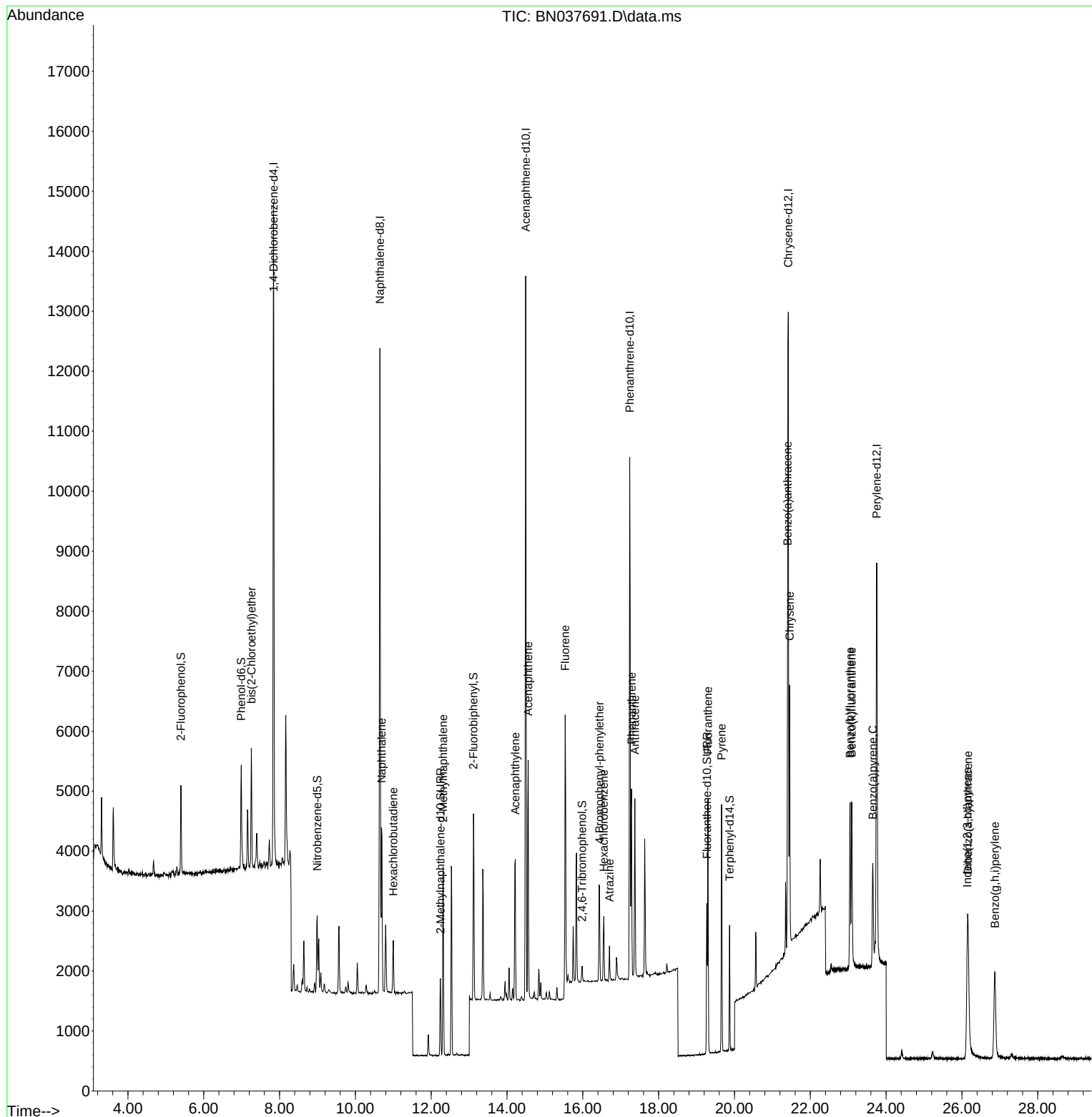
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	5271	0.400	ng	0.00
7) Naphthalene-d8	10.647	136	14013	0.400	ng	0.00
13) Acenaphthene-d10	14.494	164	6484	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	11736	0.400	ng	0.00
29) Chrysene-d12	21.420	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						
6) bis(2-Chloroethyl)ether	7.255	93	1418	0.101	ng	Qvalue 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

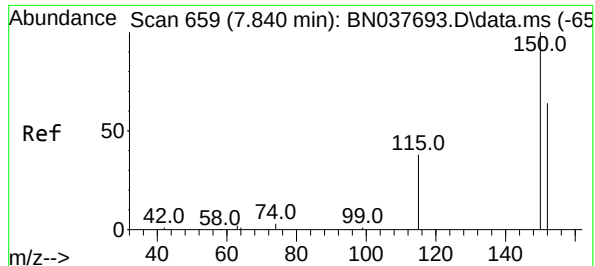
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Data File : BN037691.D
Acq On : 11 Sep 2025 09:56
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

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

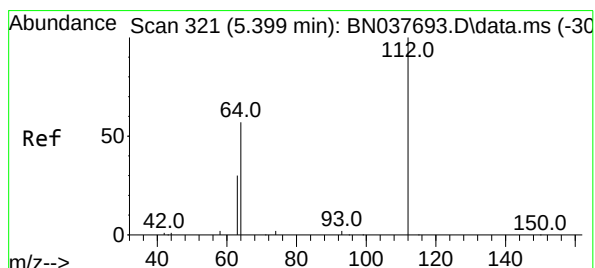
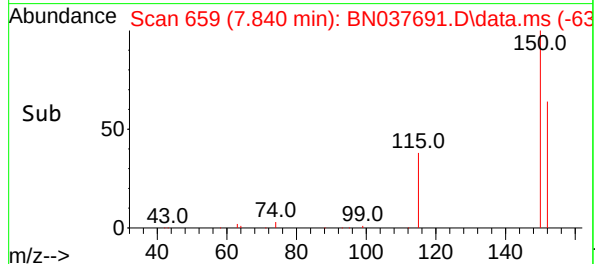
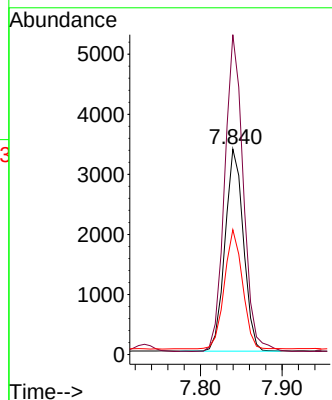
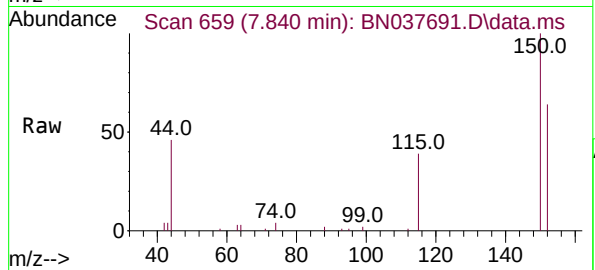




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

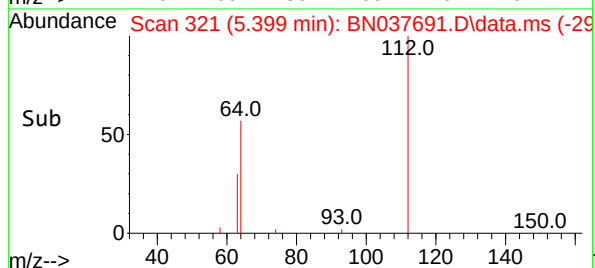
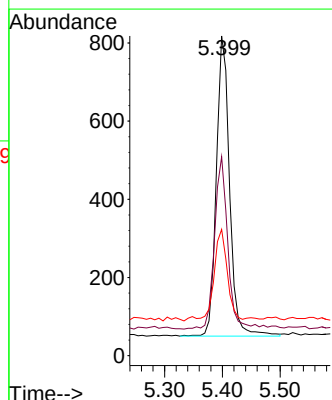
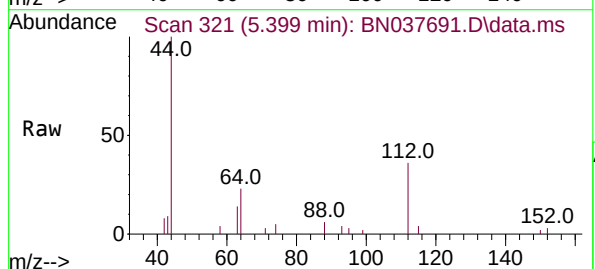
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

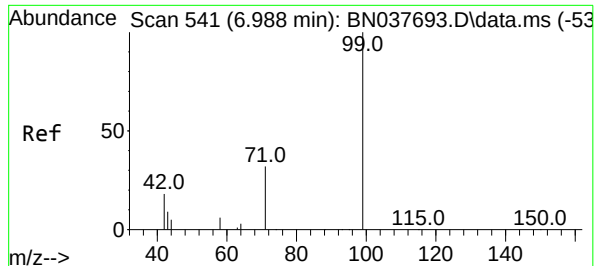
Tgt Ion:152 Resp: 5271
Ion Ratio Lower Upper
152 100
150 155.8 124.5 186.7
115 60.8 49.2 73.8



#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

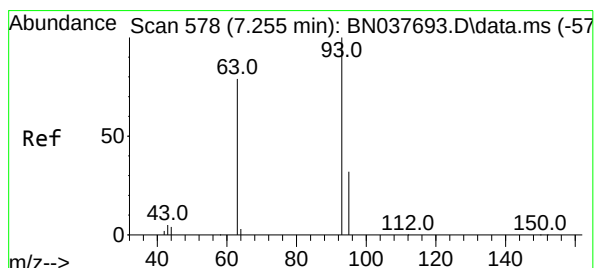
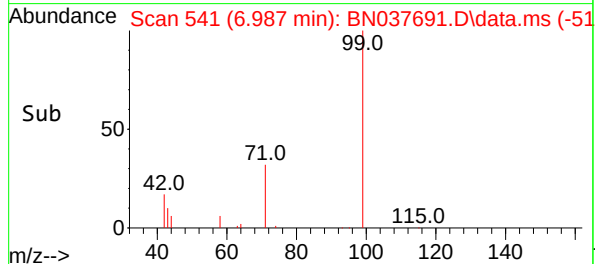
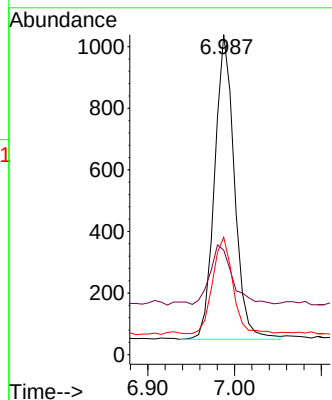
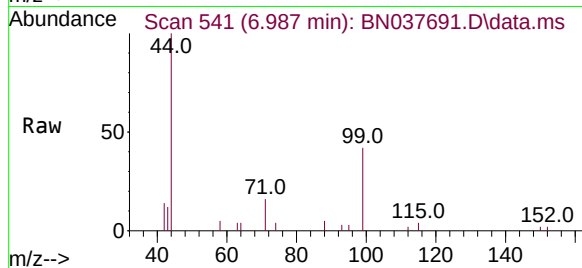




#5
Phenol-d6
Concen: 0.100 ng
RT: 6.987 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

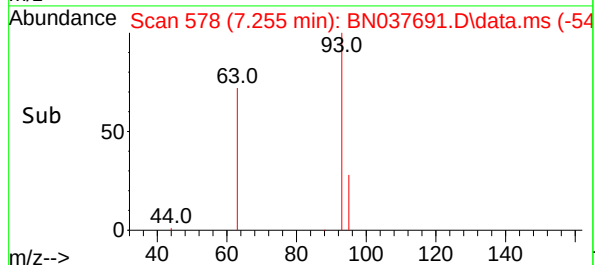
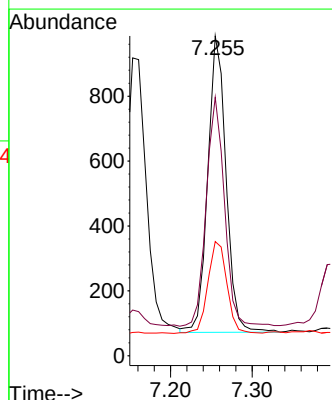
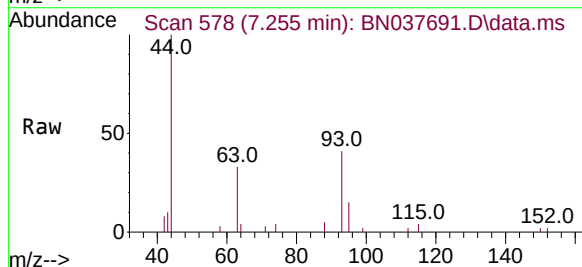
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

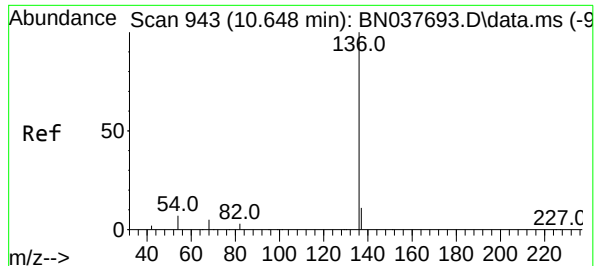
Tgt Ion: 99 Resp: 1570
Ion Ratio Lower Upper
99 100
42 21.8 16.6 24.8
71 32.4 26.7 40.1



#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

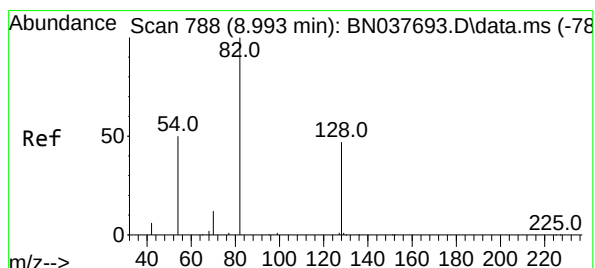
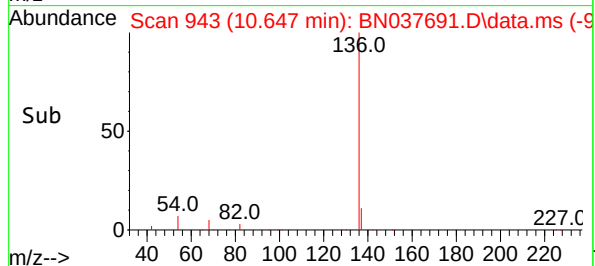
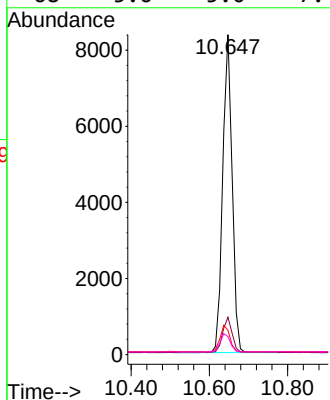
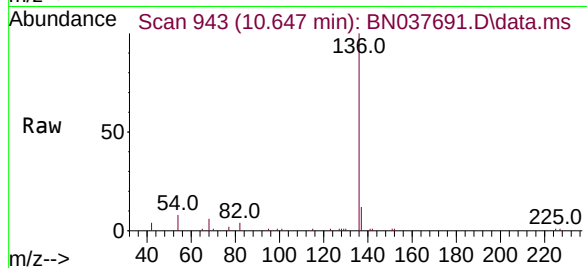




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.647 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

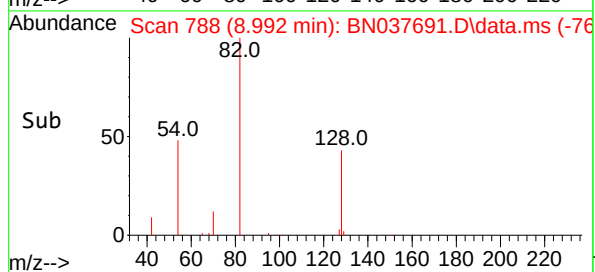
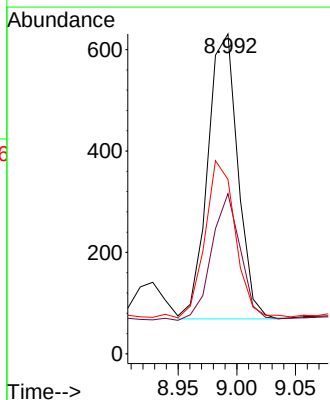
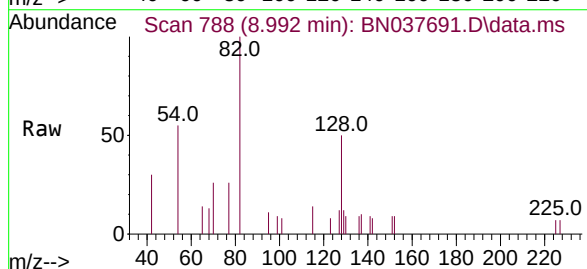
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

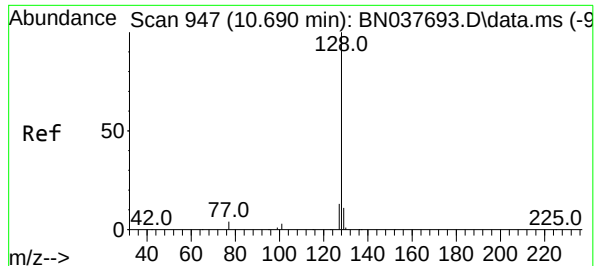
Tgt Ion:	136	Resp:	14013
Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.1	13.7
54	7.6	6.3	9.5
68	5.6	5.0	7.4



#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

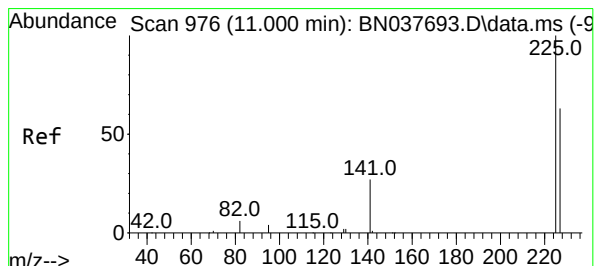
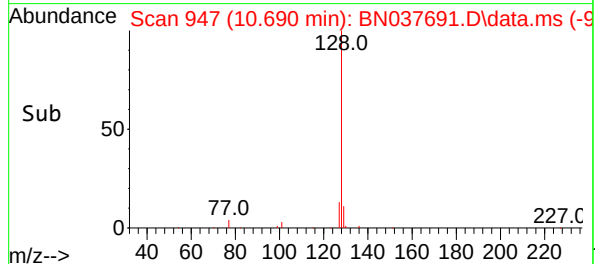
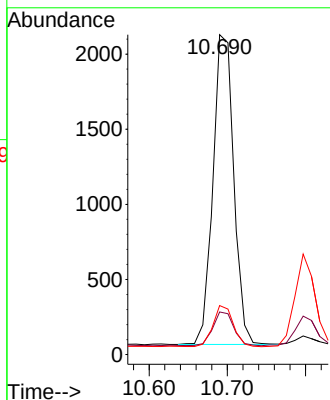
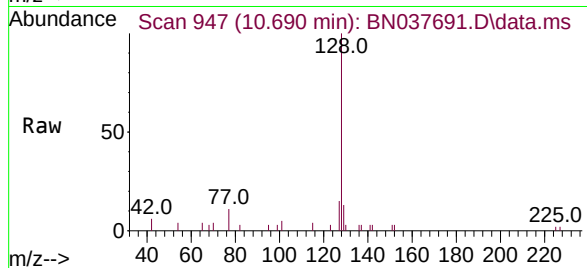




#9
Naphthalene
Concen: 0.100 ng
RT: 10.690 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

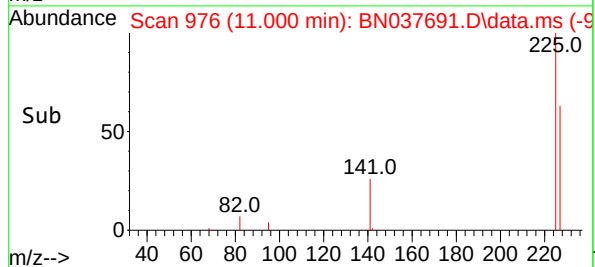
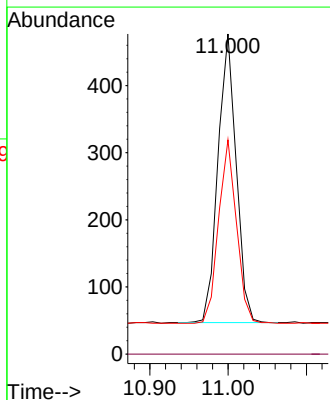
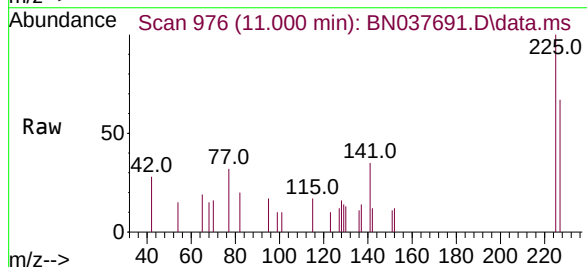
Instrument :
BNA_N
ClientSampleId :
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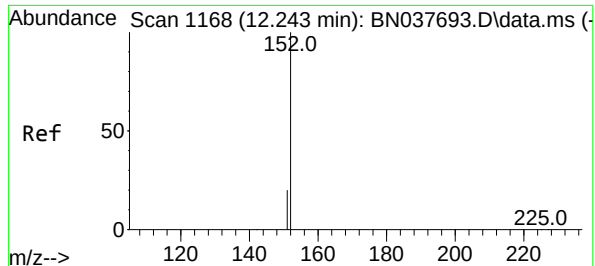
Tgt Ion	128	129	127
Resp:	3822		
Ion Ratio	100	13.3	15.3
Lower		9.1	10.9
Upper		13.7	16.3



#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	223	227
Resp:	697		
Ion Ratio	100	0.0	62.6
Lower		0.0	50.9
Upper		0.0	76.3

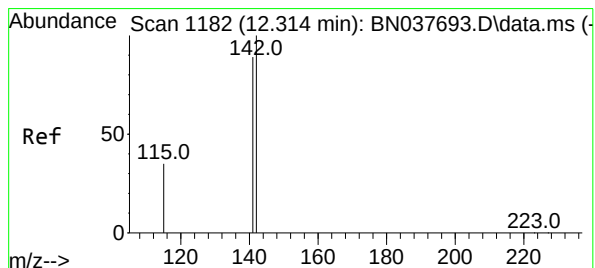
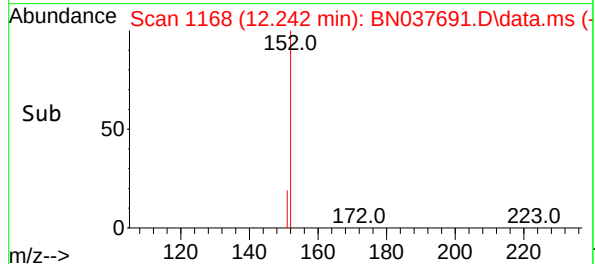
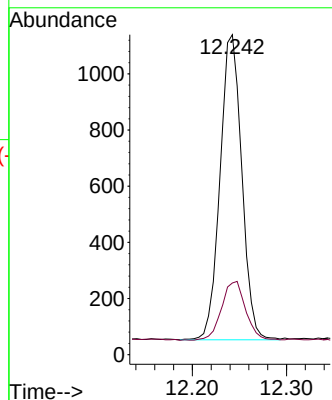
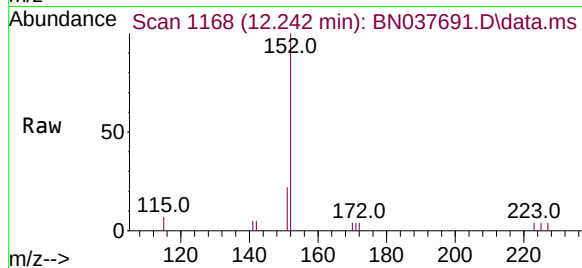




#11
2-Methylnaphthalene-d10
Concen: 0.094 ng
RT: 12.242 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

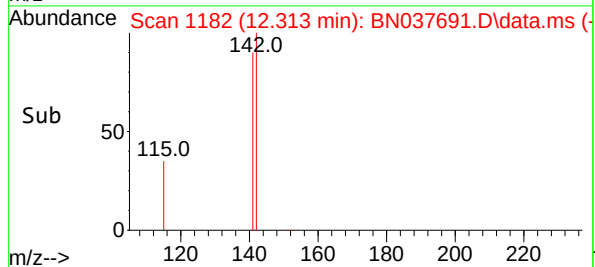
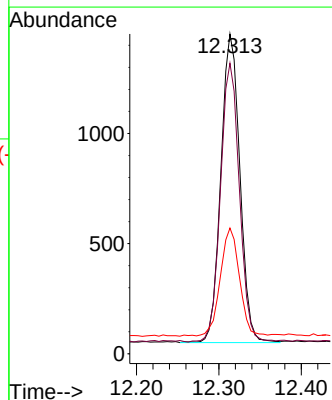
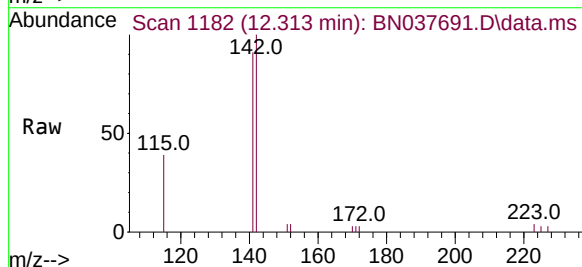
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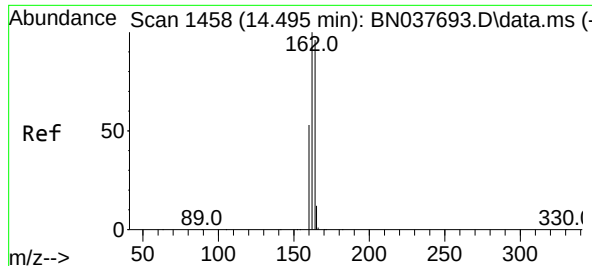
Tgt Ion:152 Resp: 1740
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6



#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

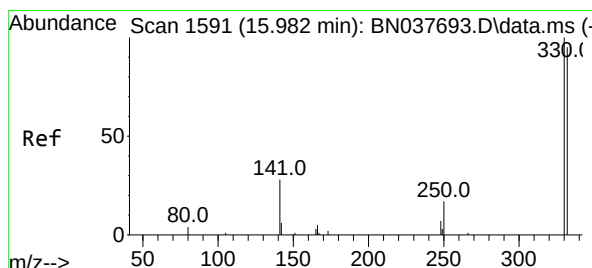
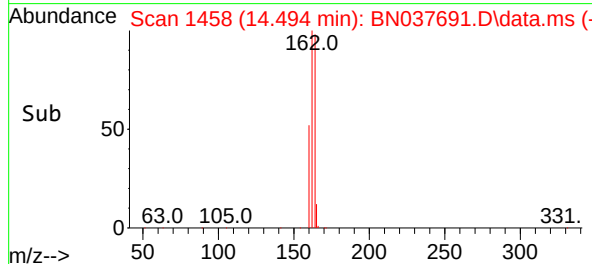
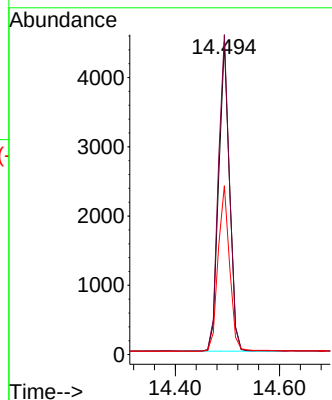
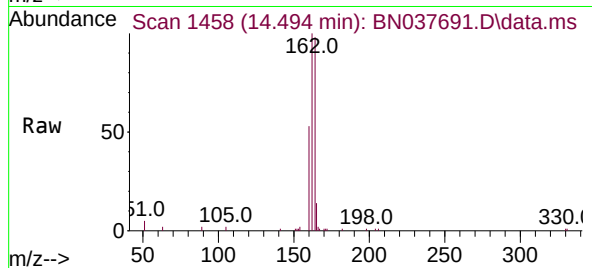




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

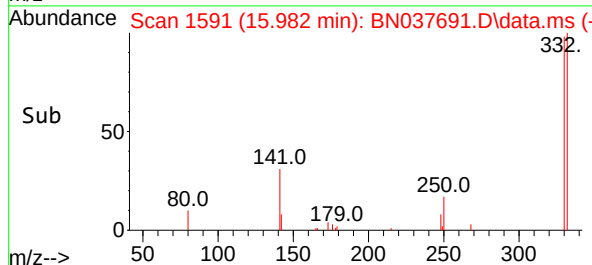
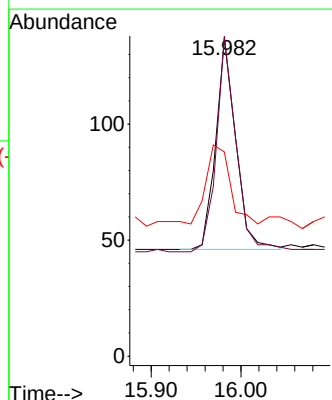
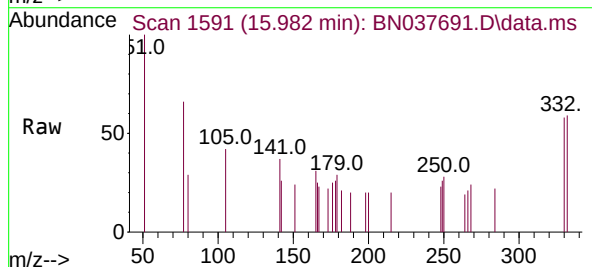
Instrument :
BNA_N
ClientSampleId :
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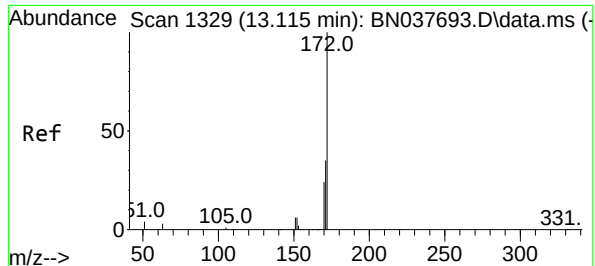
Tgt Ion:164 Resp: 6484
Ion Ratio Lower Upper
164 100
162 102.4 83.1 124.7
160 54.0 44.3 66.5



#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

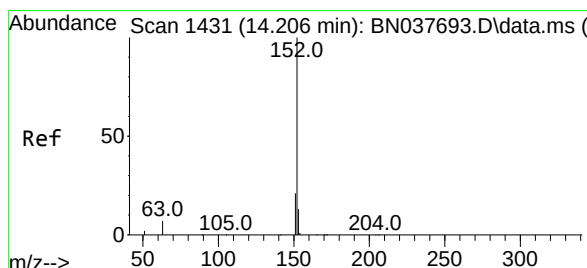
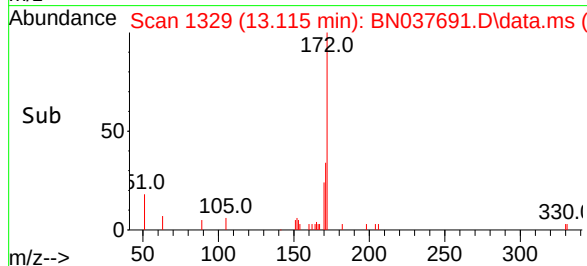
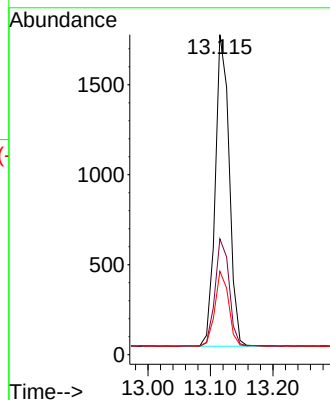
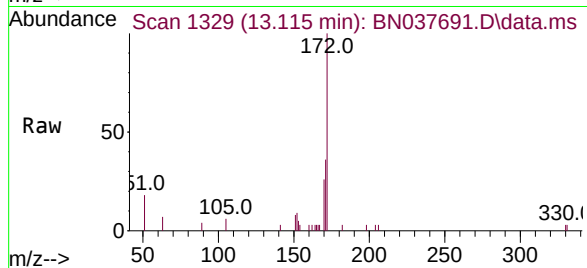
Tgt Ion:172 Resp: 2696

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

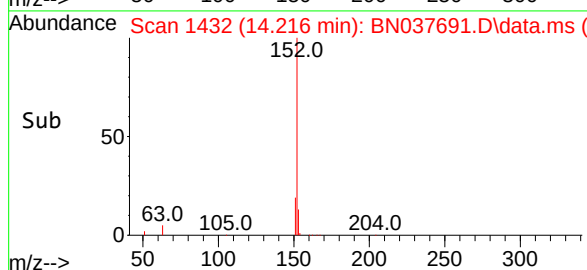
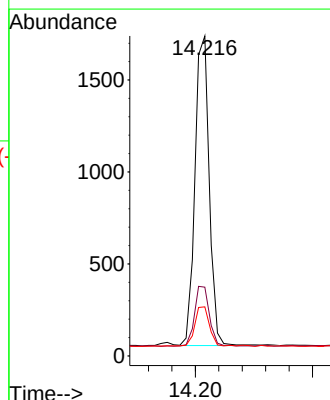
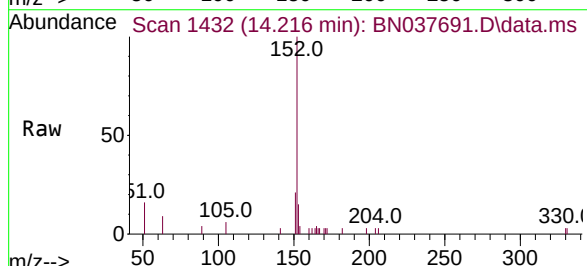
Tgt Ion:152 Resp: 2843

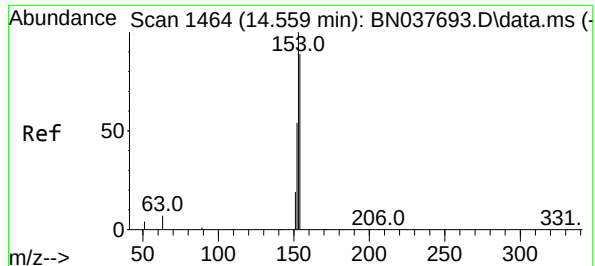
Ion Ratio Lower Upper

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

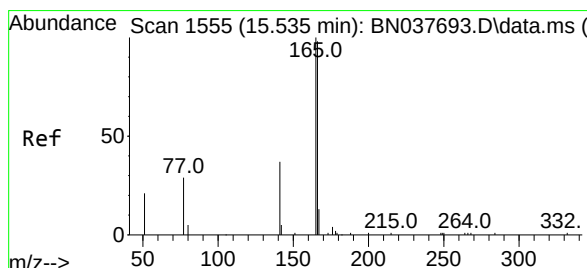
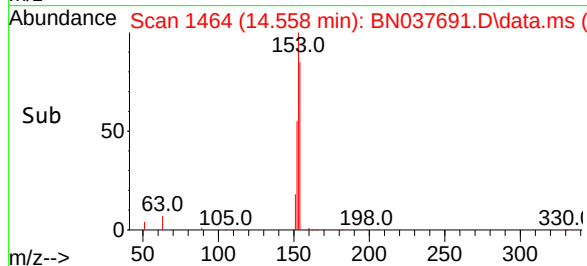
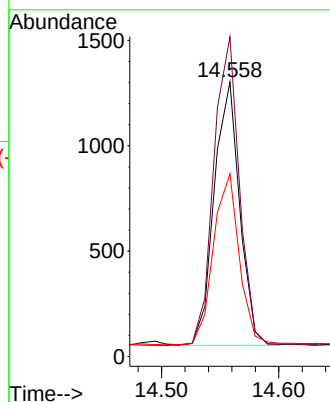
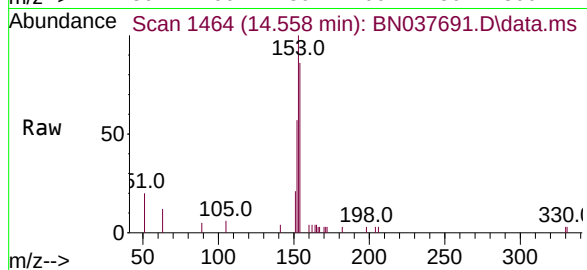
Tgt Ion:154 Resp: 1889

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

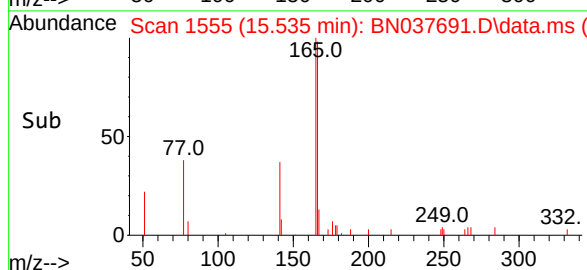
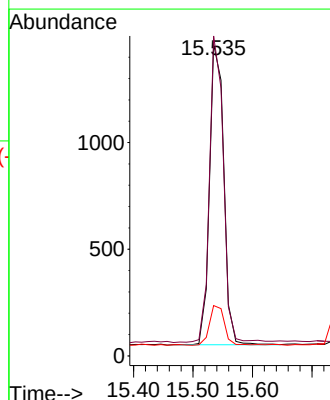
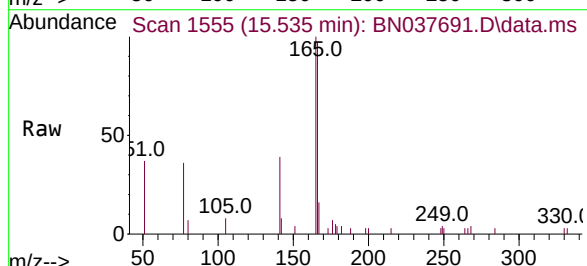
Tgt Ion:166 Resp: 2276

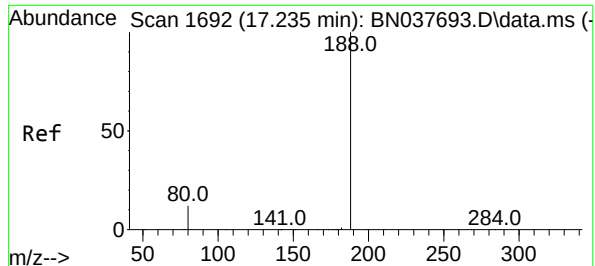
Ion Ratio Lower Upper

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 :

SSTDIC0.1

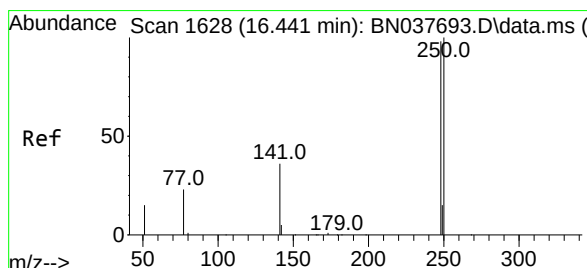
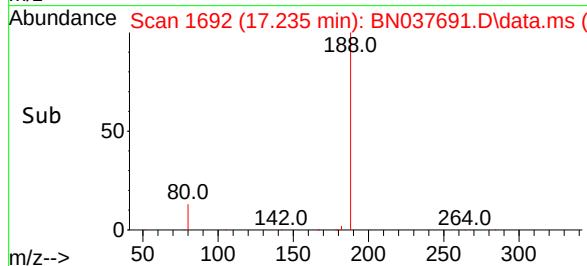
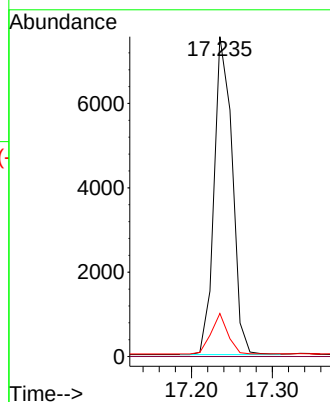
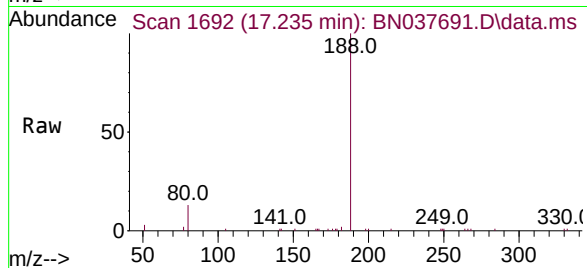
Tgt Ion:188 Resp: 11736

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

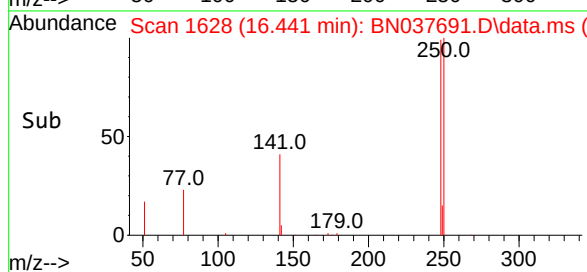
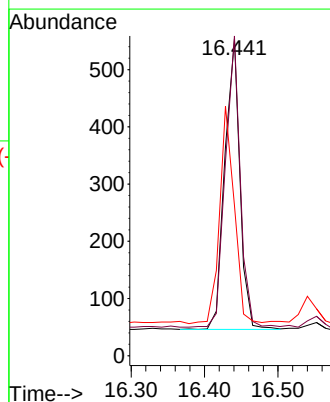
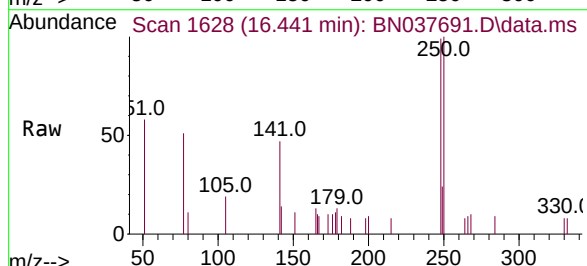
Tgt Ion:248 Resp: 733

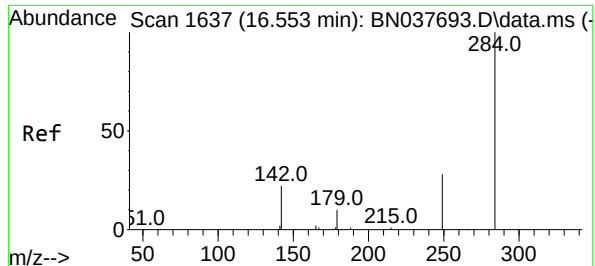
Ion Ratio Lower Upper

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

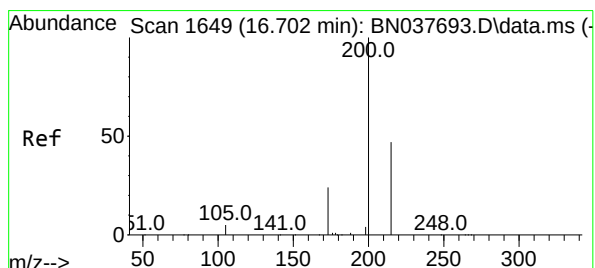
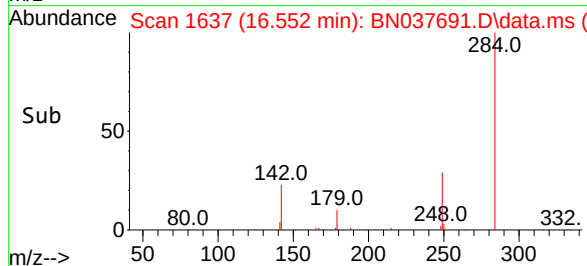
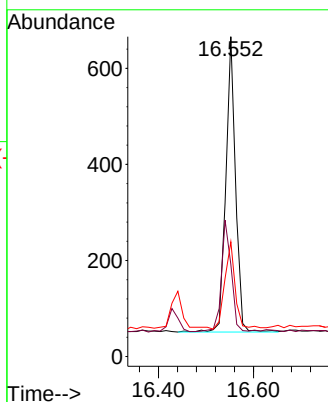
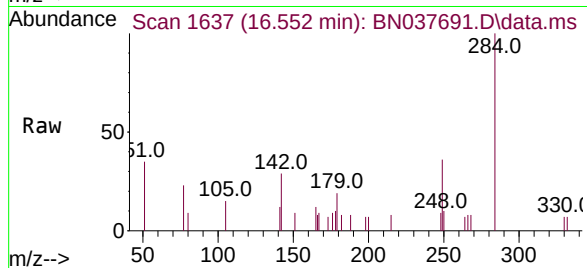
Tgt Ion:284 Resp: 883

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

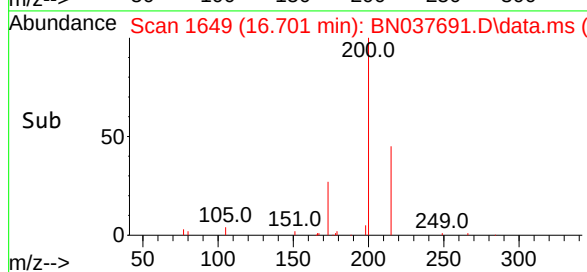
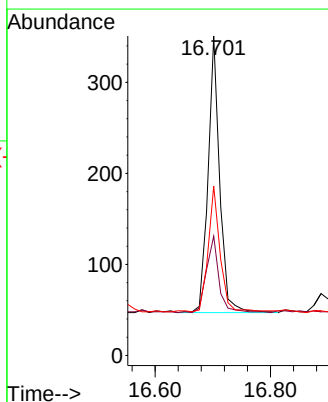
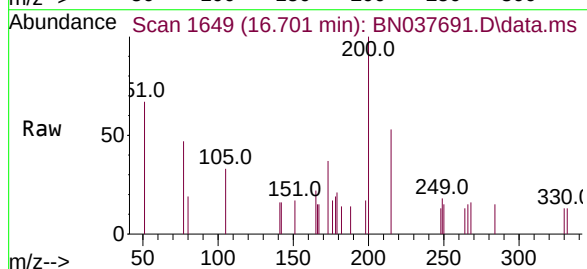
Tgt Ion:200 Resp: 426

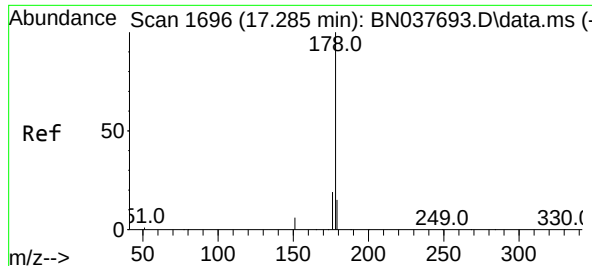
Ion Ratio Lower Upper

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

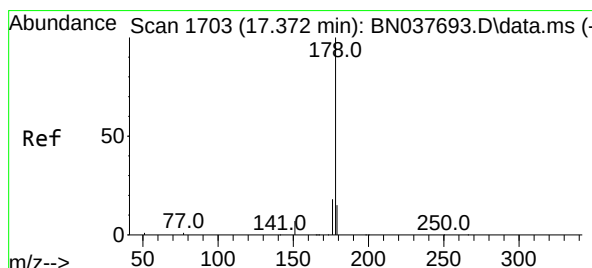
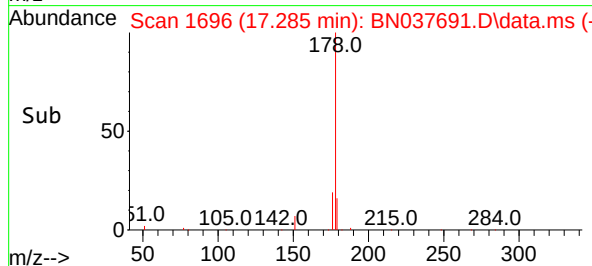
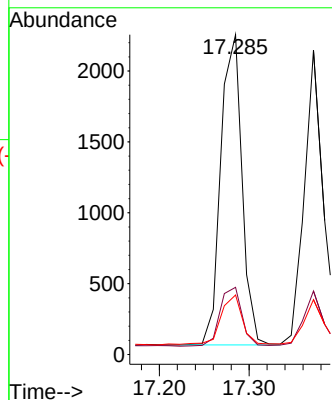
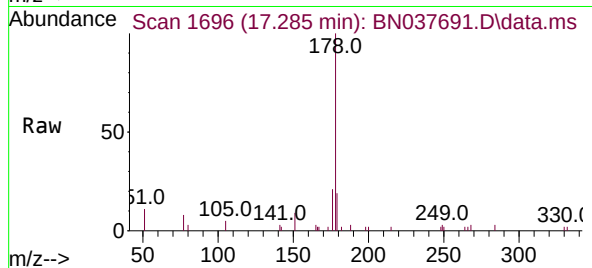
Tgt Ion:178 Resp: 3604

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

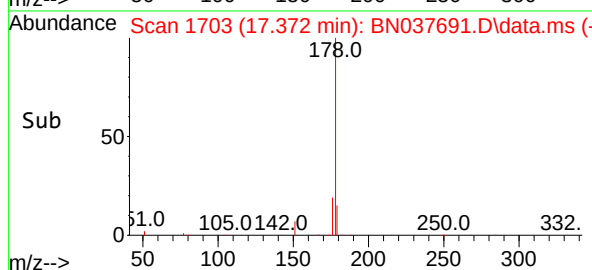
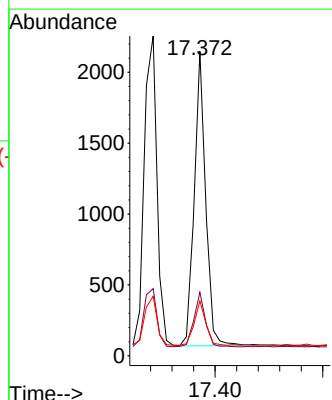
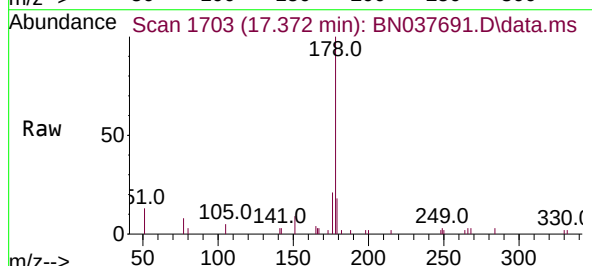
Tgt Ion:178 Resp: 3046

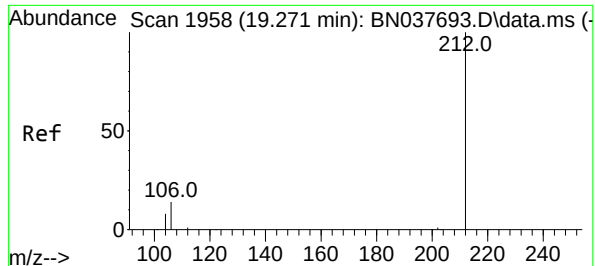
Ion Ratio Lower Upper

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

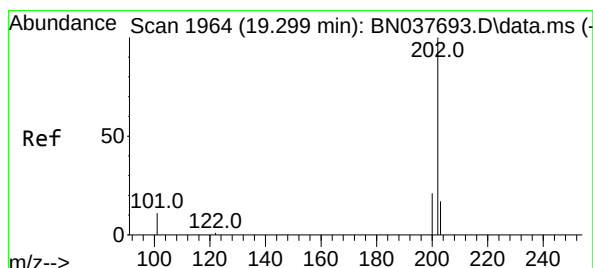
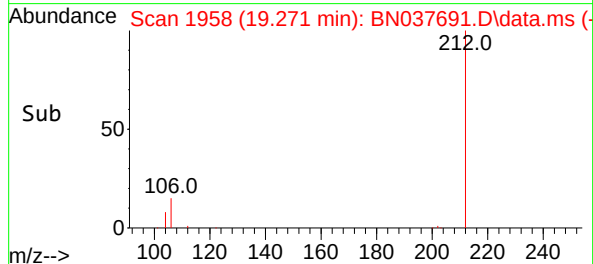
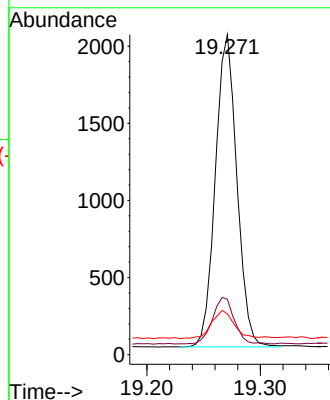
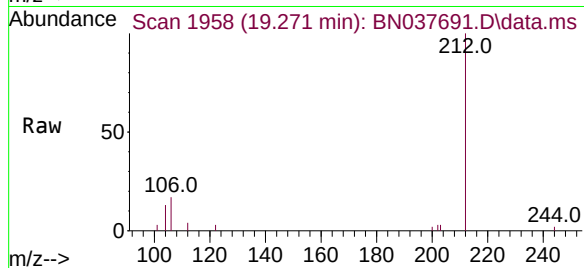
Tgt Ion:212 Resp: 2677

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

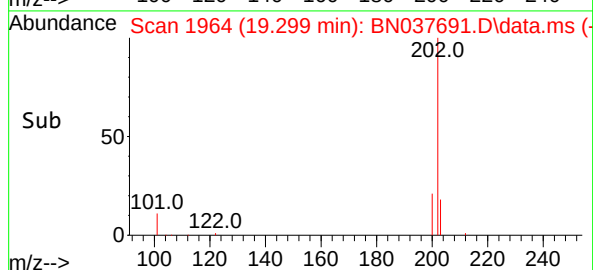
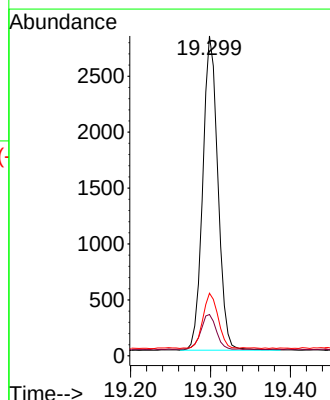
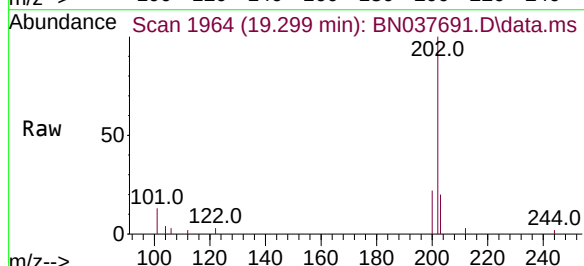
Tgt Ion:202 Resp: 3689

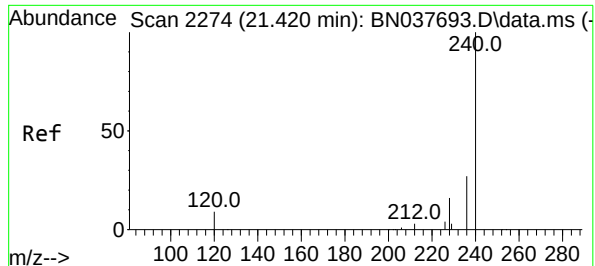
Ion Ratio Lower Upper

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 :

SSTDIC0.1

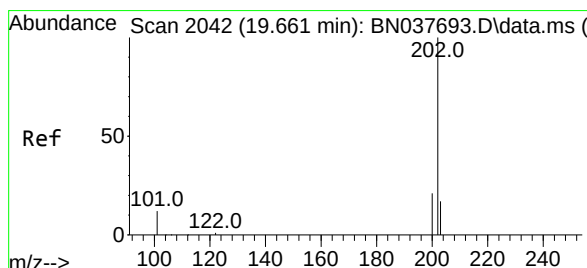
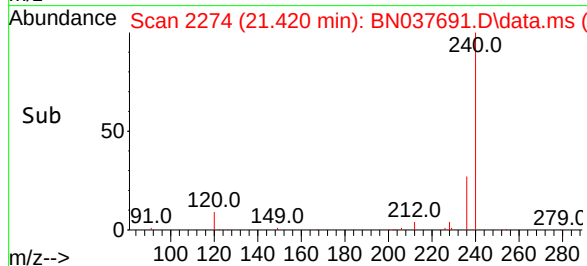
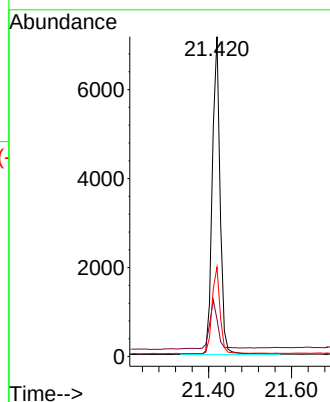
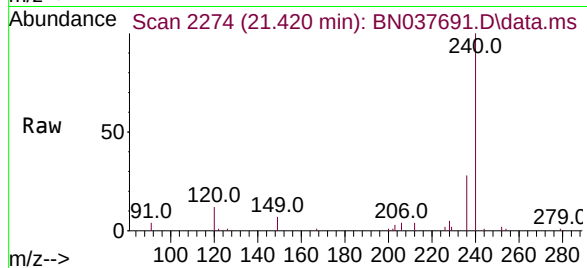
Tgt Ion:240 Resp: 9323

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

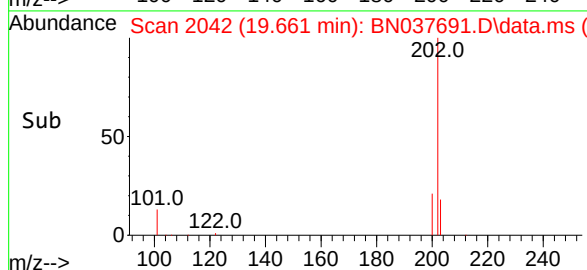
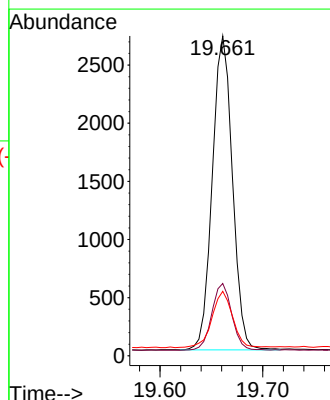
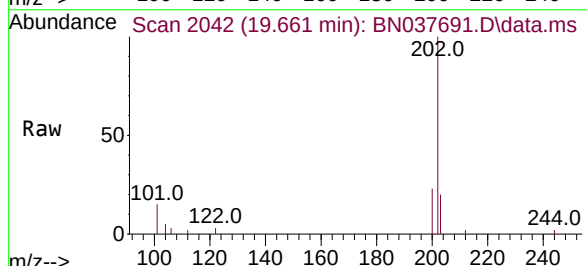
Tgt Ion:202 Resp: 3679

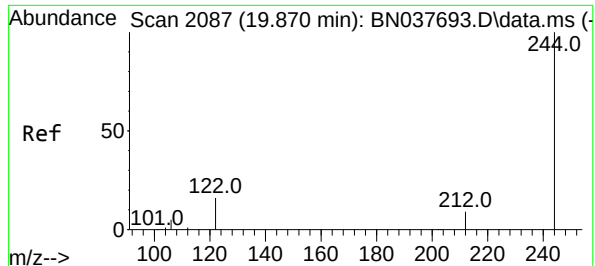
Ion Ratio Lower Upper

202 100

200 20.9 16.8 25.2

203 18.4 14.3 21.5

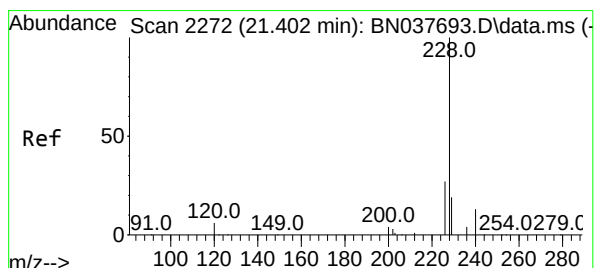
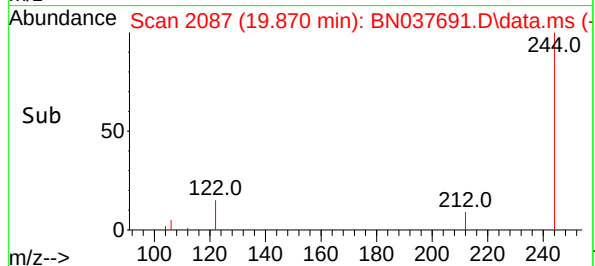
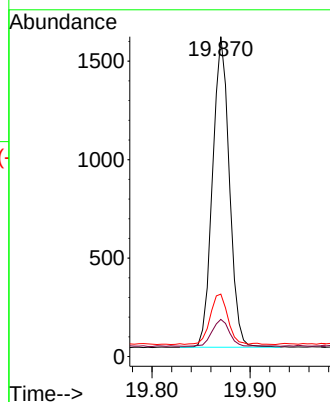
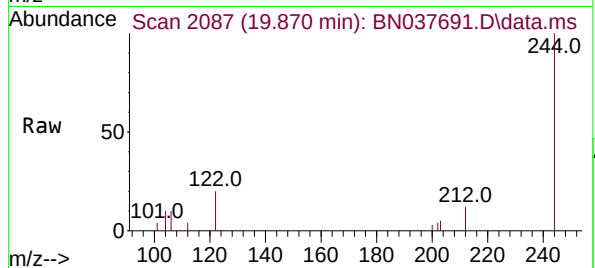




#31
Terphenyl-d14
Concen: 0.099 ng
RT: 19.870 min Scan# 2087
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

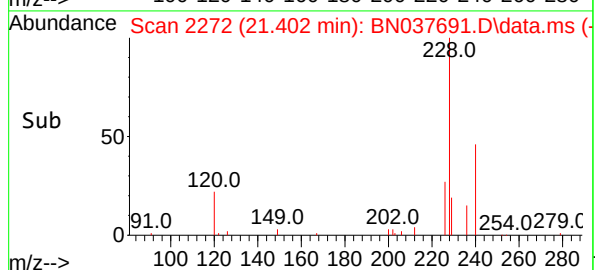
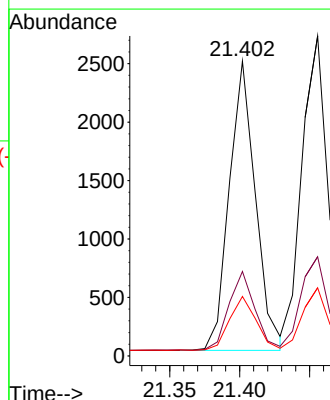
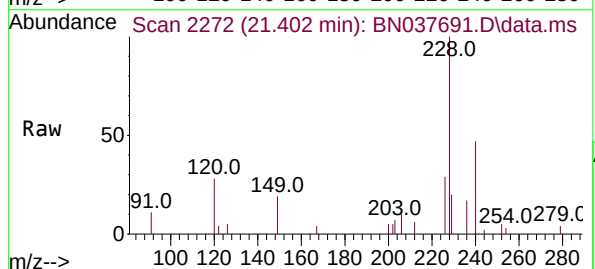
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

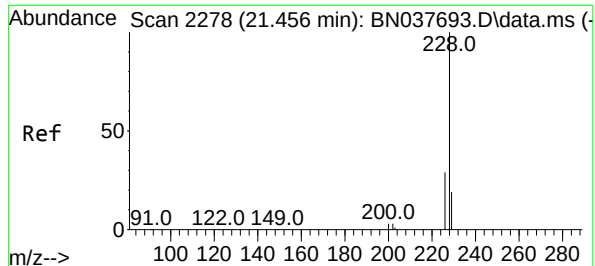
Tgt Ion:244 Resp: 1879
Ion Ratio Lower Upper
244 100
212 11.6 7.5 11.3#
122 19.5 13.2 19.8



#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 Resp: 3231
Ion Ratio Lower Upper
228 100
226 28.6 22.2 33.2
229 20.2 15.8 23.6

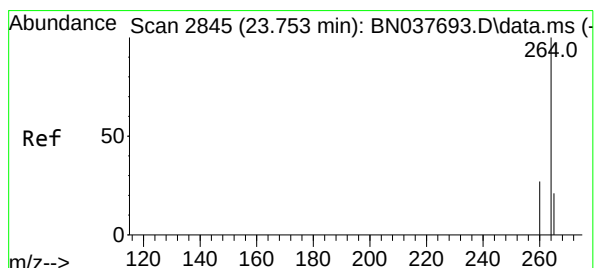
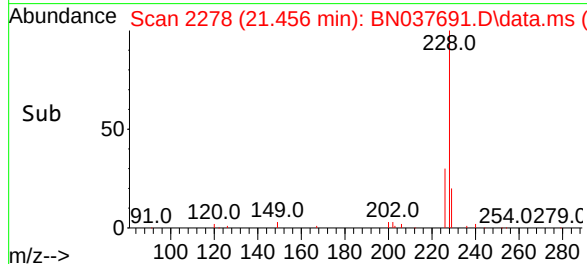
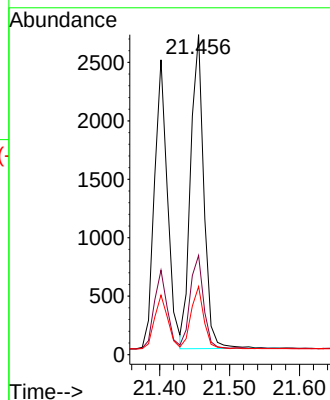
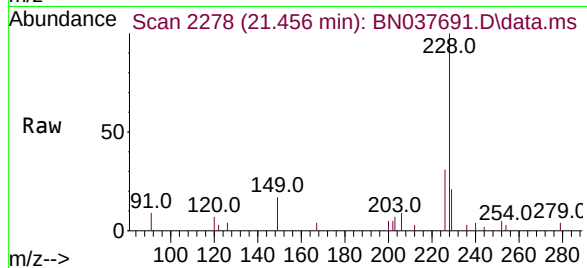




#33
Chrysene
Concen: 0.102 ng
RT: 21.456 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

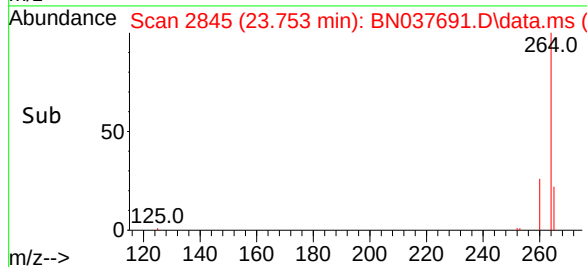
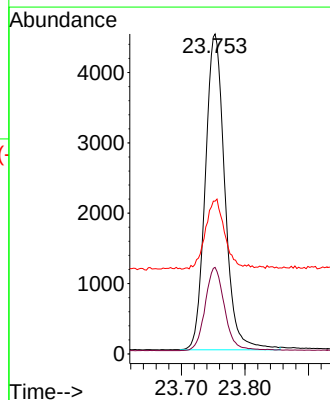
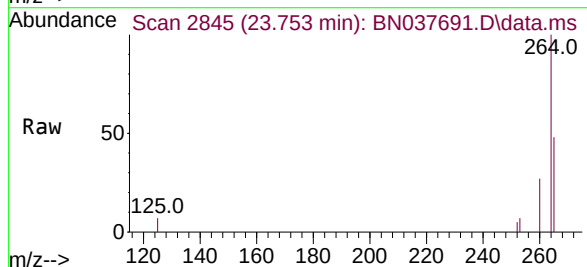
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

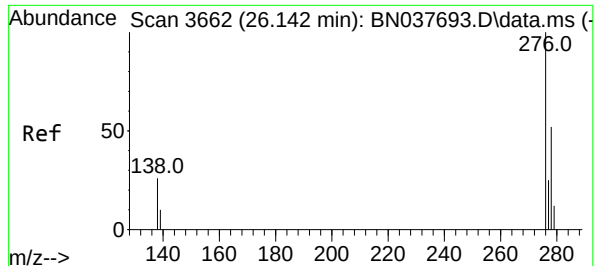
Tgt Ion:	228	Resp:	3549
Ion Ratio	Lower	Upper	
228	100		
226	31.0	23.5	35.3
229	21.3	15.9	23.9



#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:	264	Resp:	9603
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

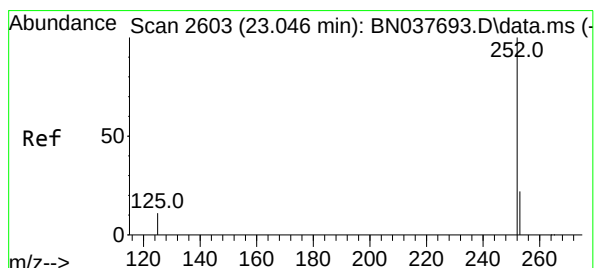
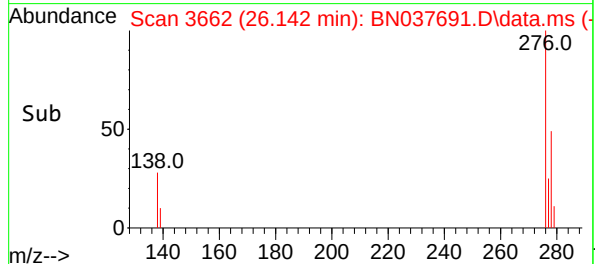
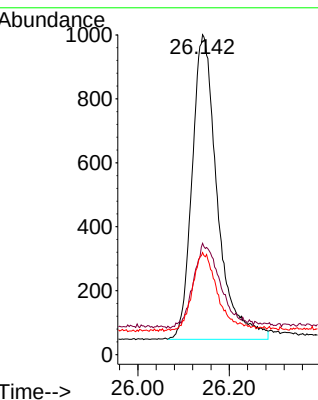
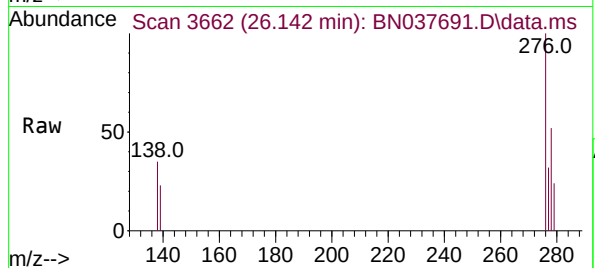
Tgt Ion:276 Resp: 3642

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

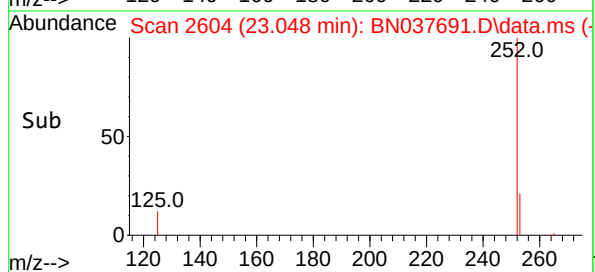
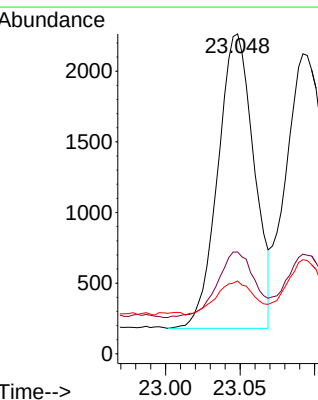
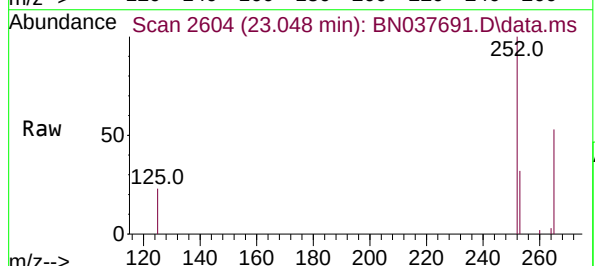
Tgt Ion:252 Resp: 3513

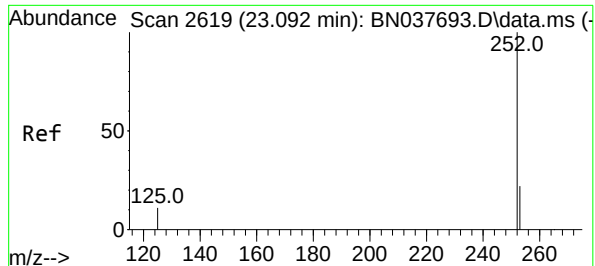
Ion Ratio Lower Upper

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# 20

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

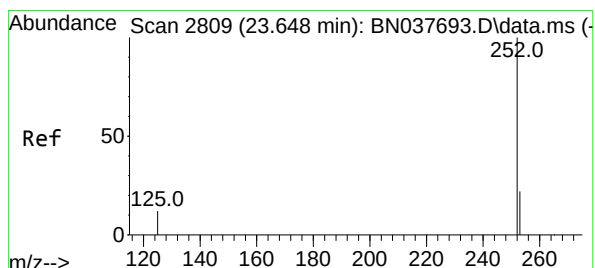
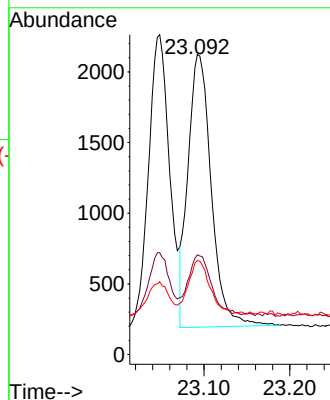
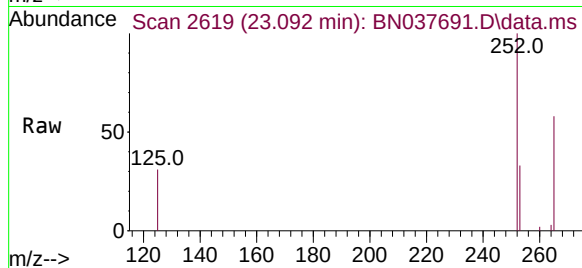
Tgt Ion:252 Resp: 3640

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

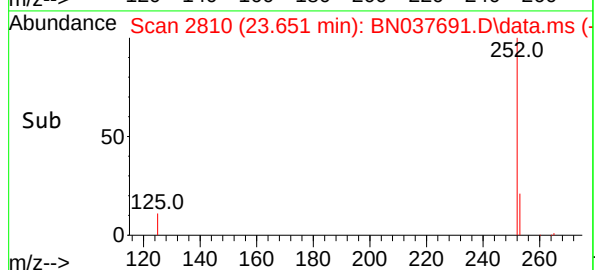
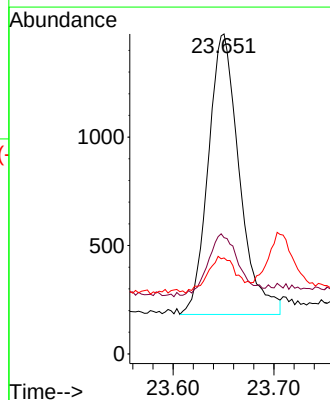
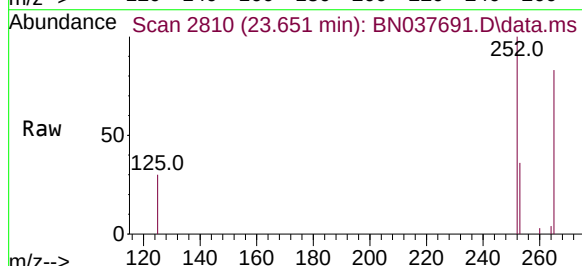
Tgt Ion:252 Resp: 2774

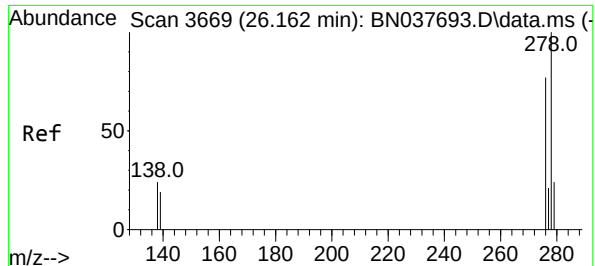
Ion Ratio Lower Upper

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# 30

Delta R.T. -0.003 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

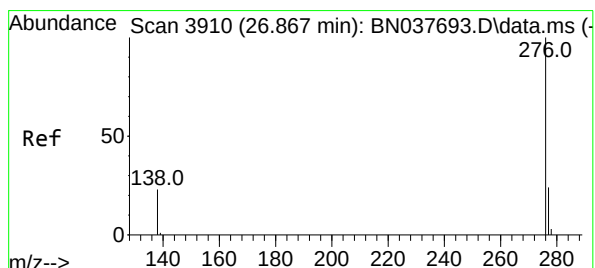
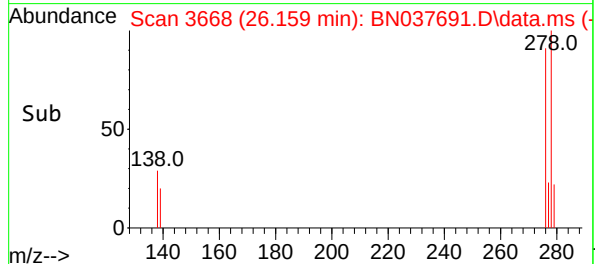
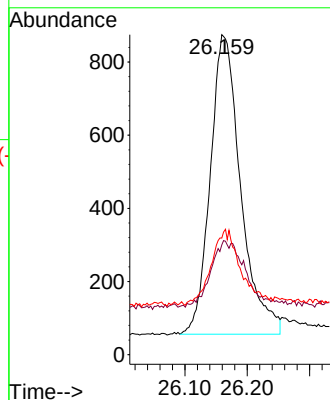
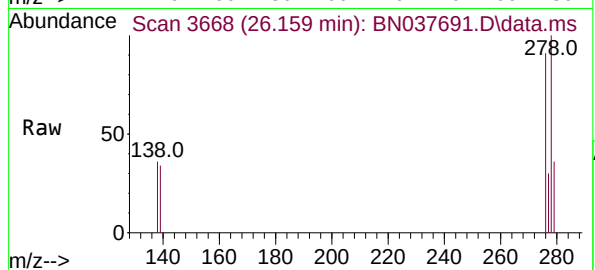
Tgt Ion:278 Resp: 2778

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

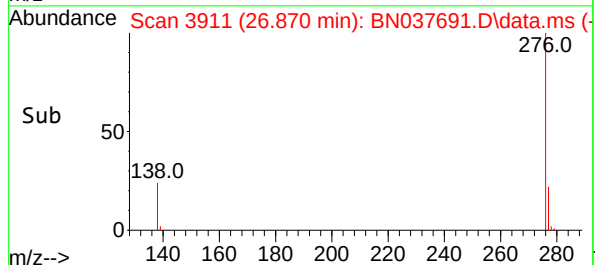
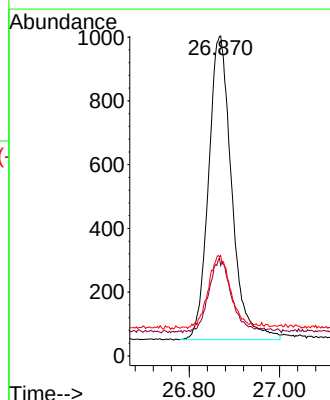
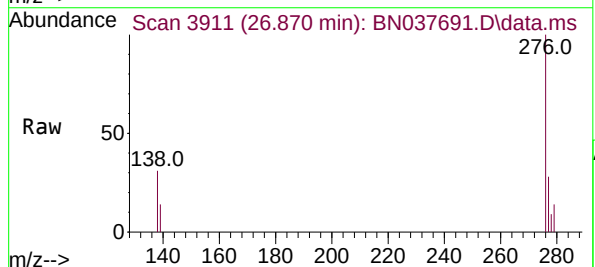
Tgt Ion:276 Resp: 3393

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						
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

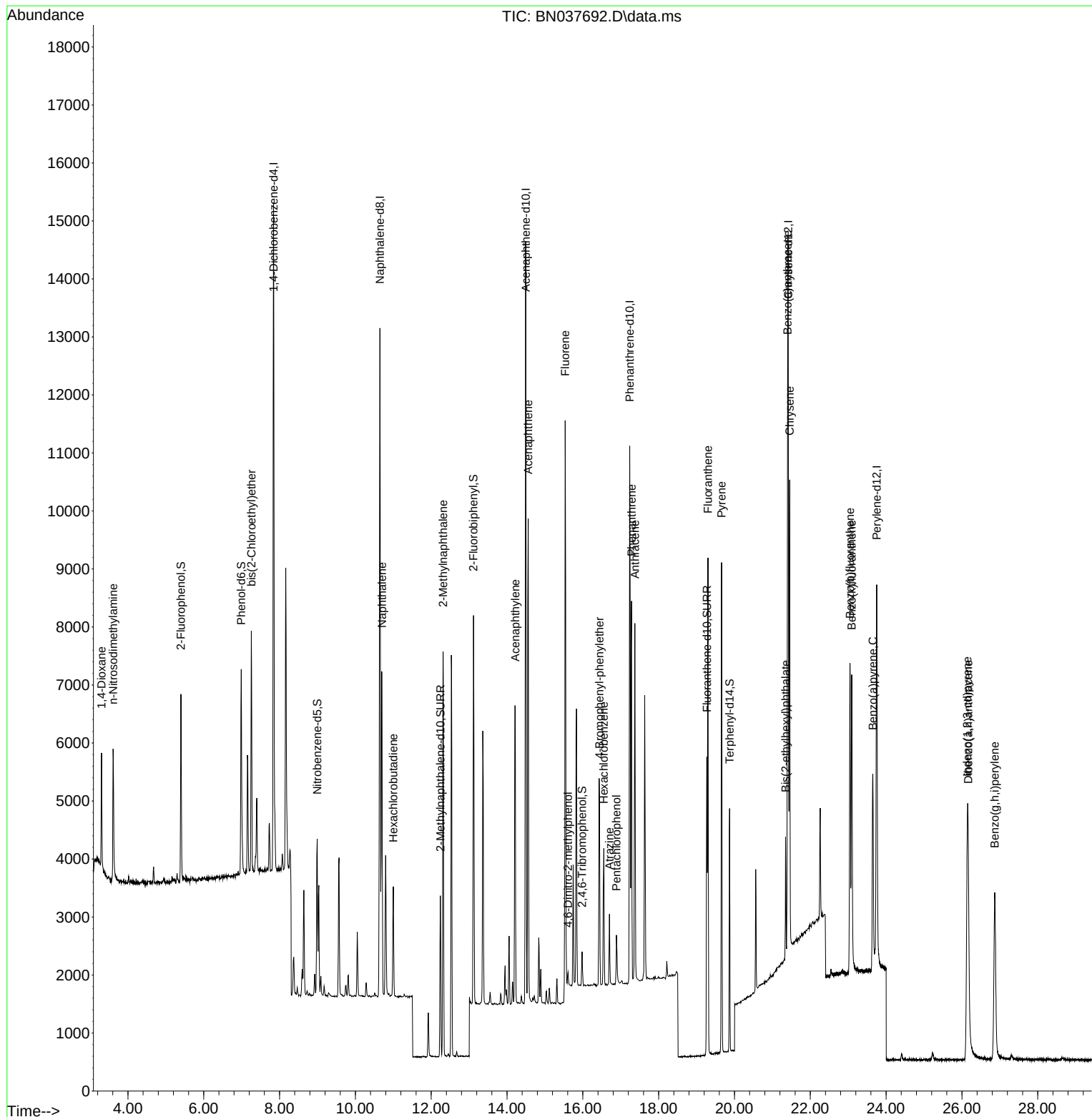
Manual Integrations

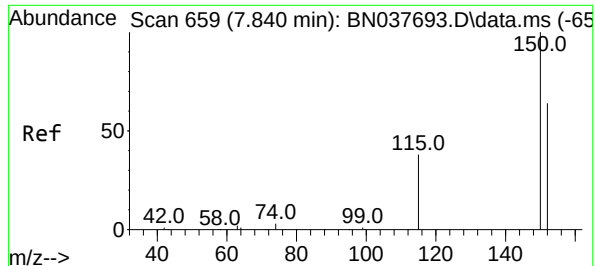
APPROVED

Reviewed By :Rahul Chavli 09/12/2025

Supervised By :Jagrut Upadhyay 09/12/2025

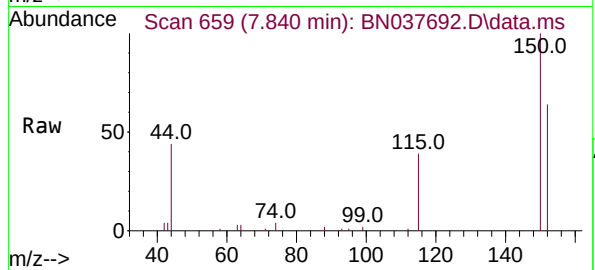
Quant Time: Sep 11 14:05:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration





#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

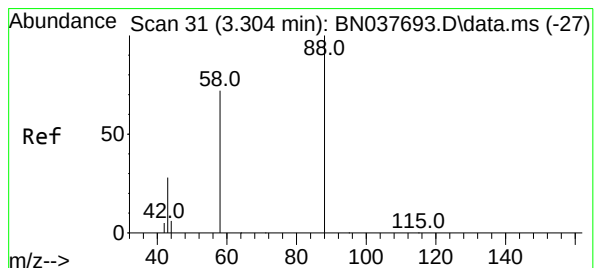
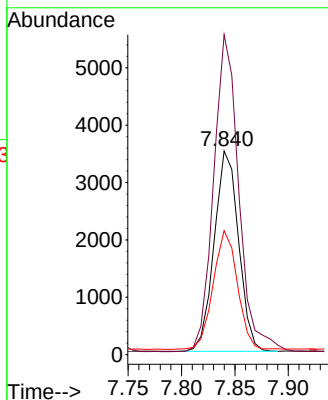
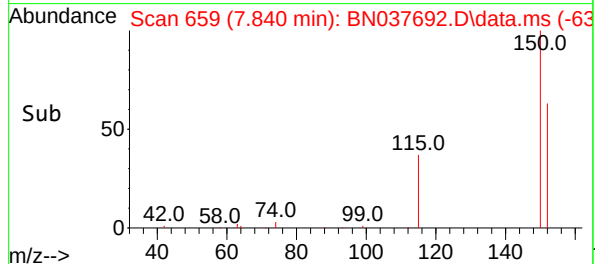
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

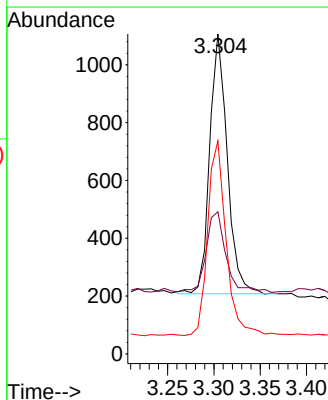
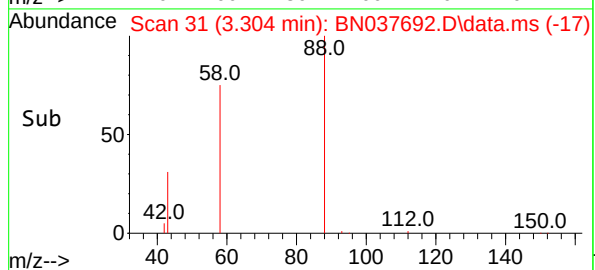
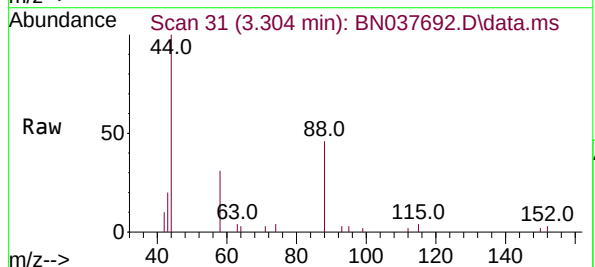
Manual Integrations
APPROVED

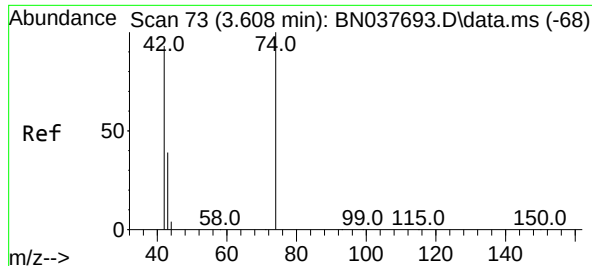
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#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

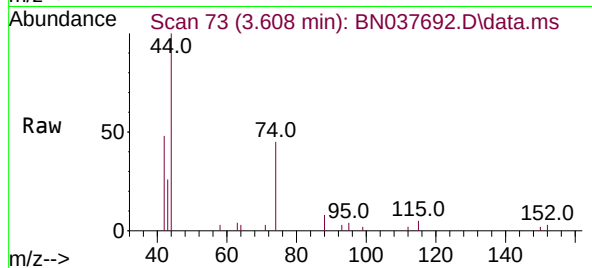
Tgt Ion: 88 Resp: 1189
Ion Ratio Lower Upper
88 100
43 34.1 26.8 40.2
58 78.4 61.9 92.9





#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

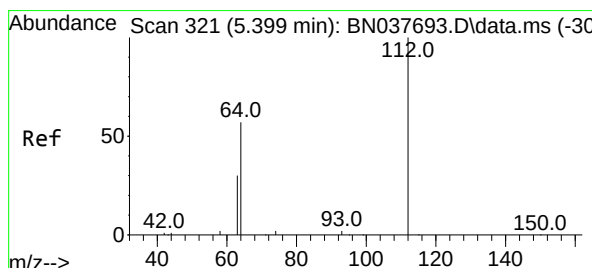
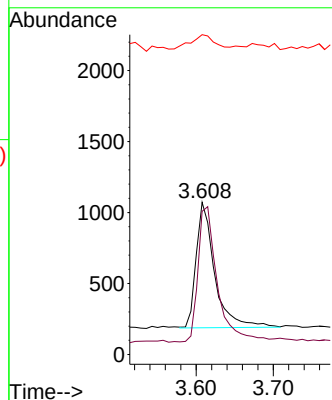
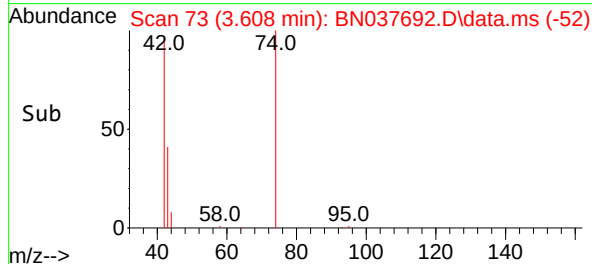
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

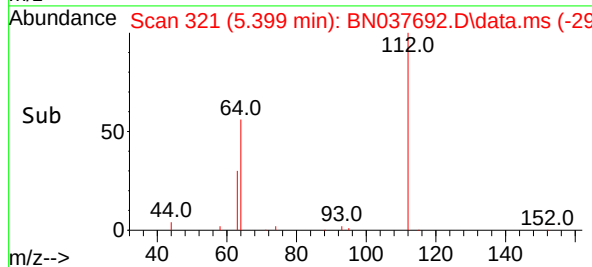
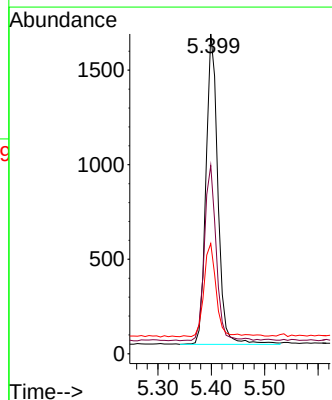
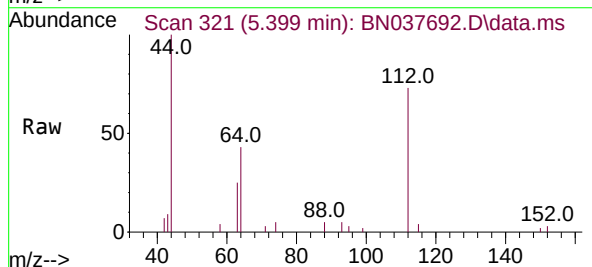
Manual Integrations
APPROVED

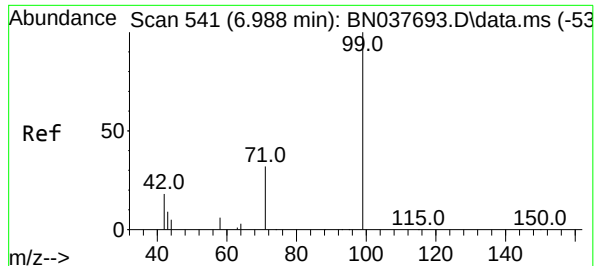
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#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





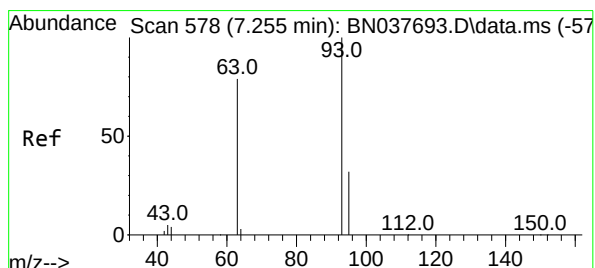
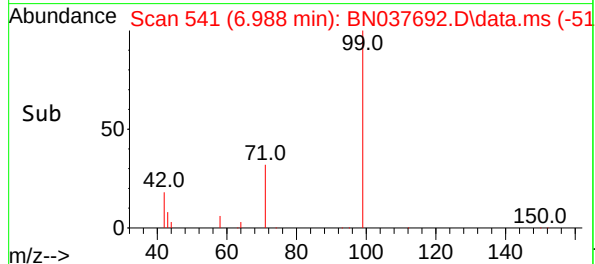
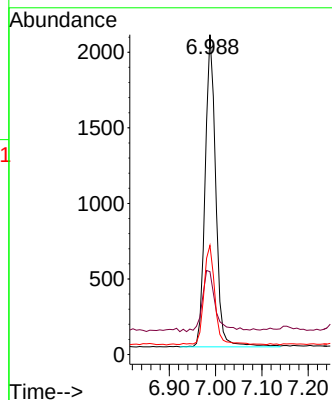
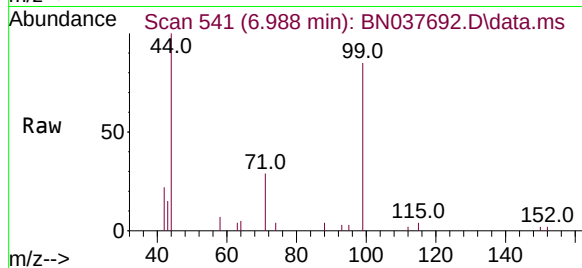
#5
Phenol-d6
Concen: 0.200 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

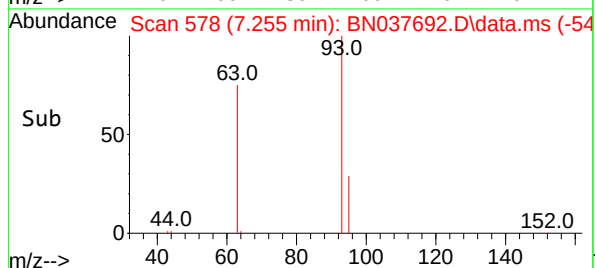
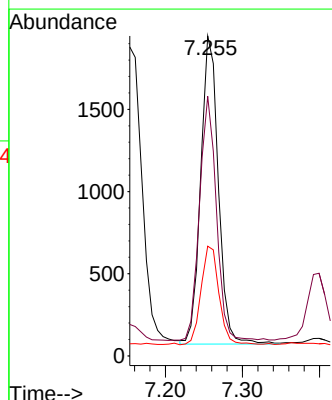
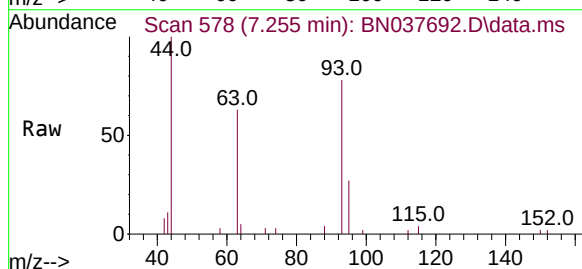
Manual Integrations
APPROVED

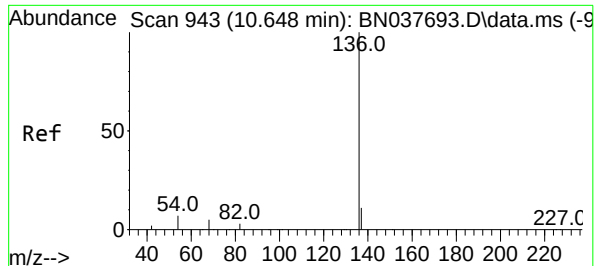
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#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





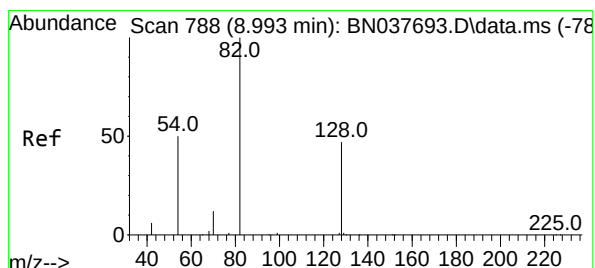
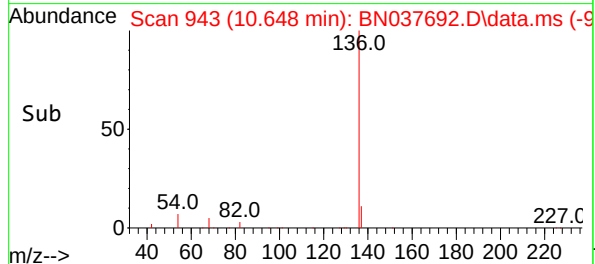
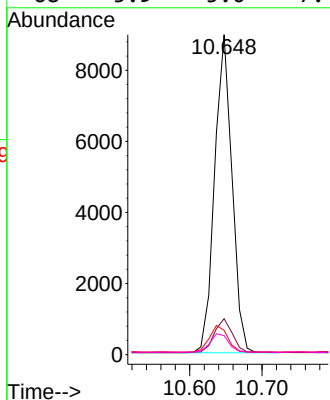
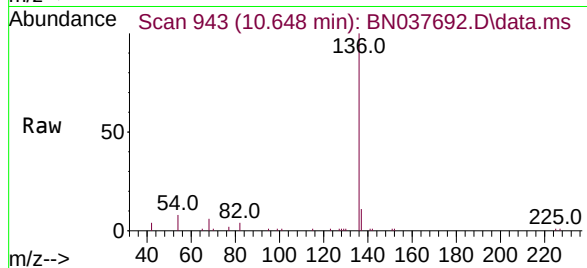
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

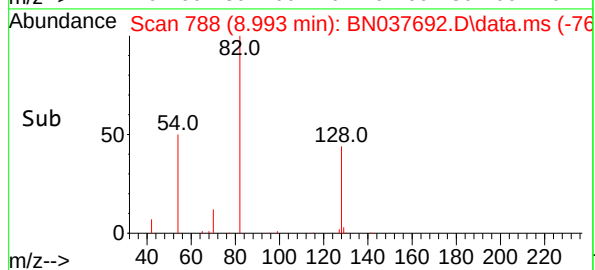
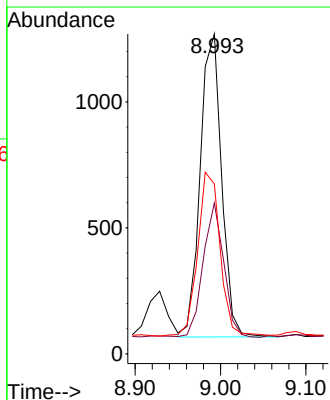
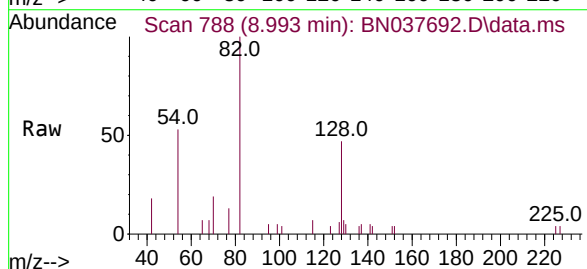
Manual Integrations
APPROVED

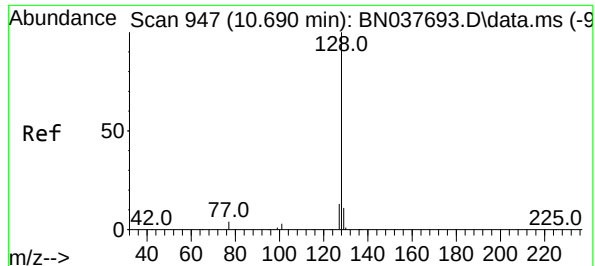
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#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





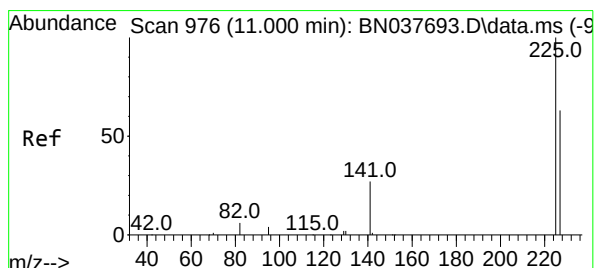
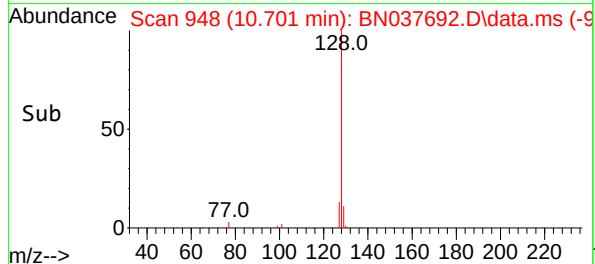
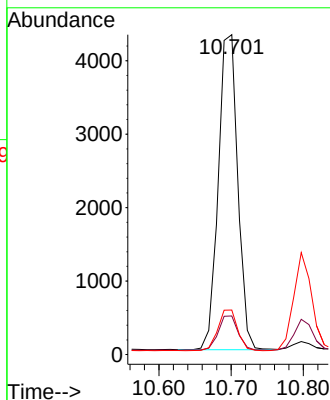
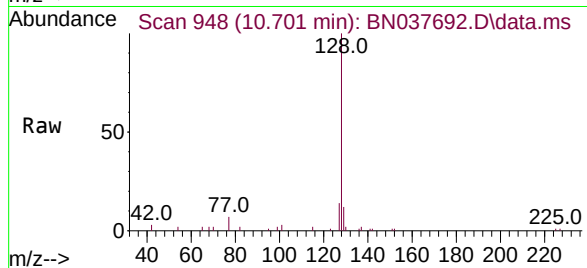
#9
Naphthalene
Concen: 0.196 ng
RT: 10.701 min Scan# 948
Delta R.T. 0.011 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

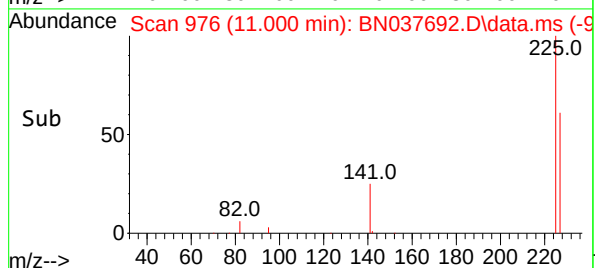
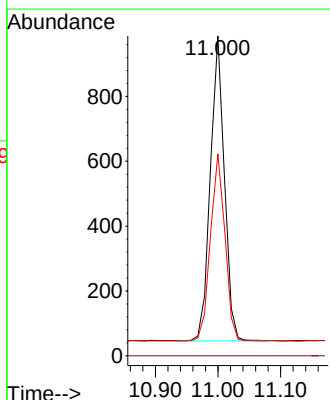
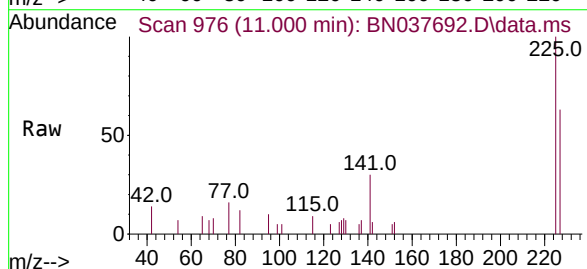
Manual Integrations
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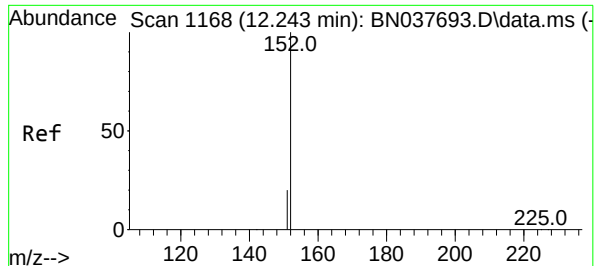
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#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

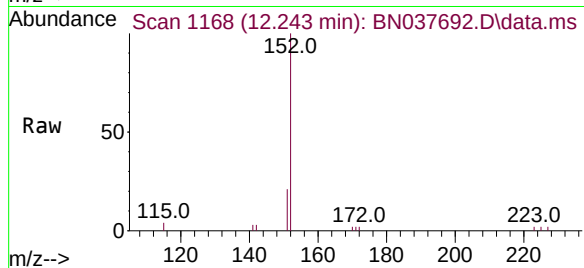
Tgt Ion:225 Resp: 1472
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.2 50.9 76.3





#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

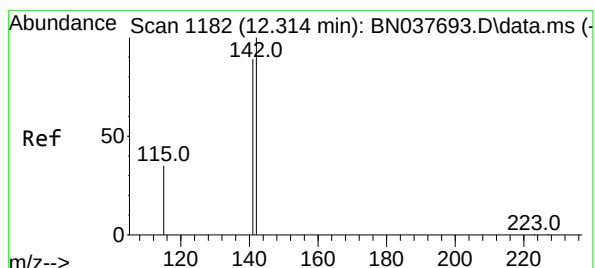
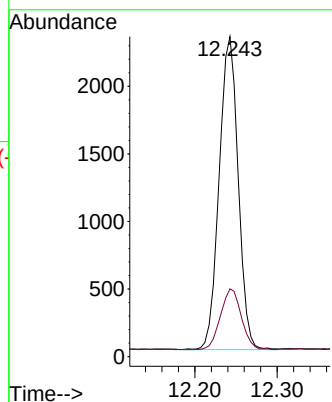
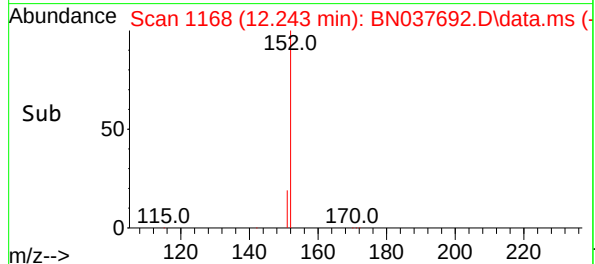
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2



Tgt Ion:152 Resp: 3732
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6

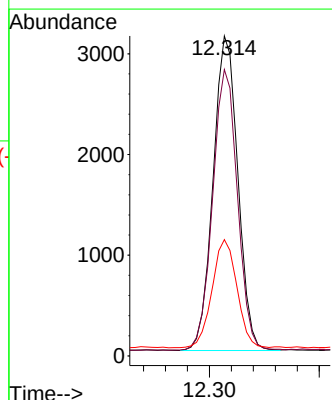
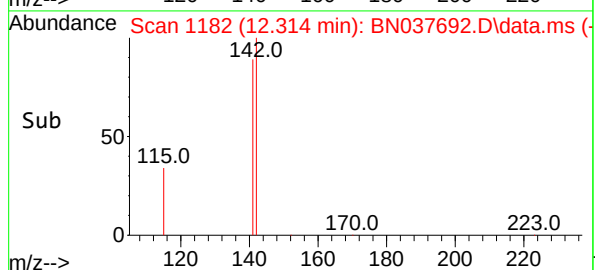
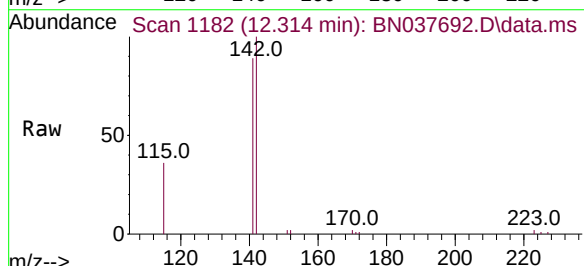
Manual Integrations
APPROVED

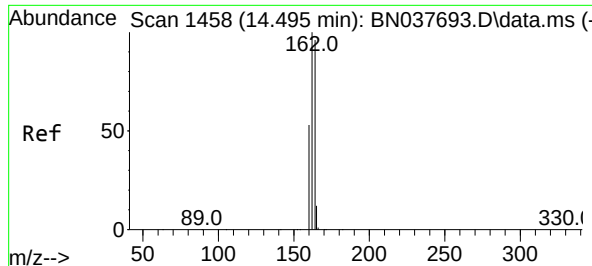
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#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

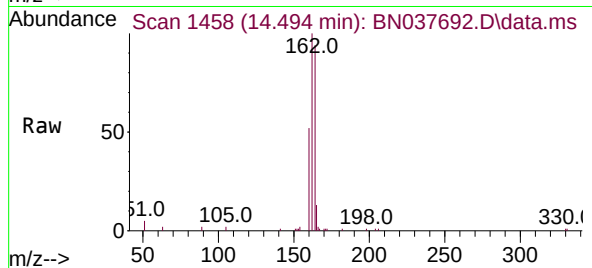
Tgt Ion:142 Resp: 4889
Ion Ratio Lower Upper
142 100
141 89.5 71.6 107.4
115 36.3 28.6 43.0





#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

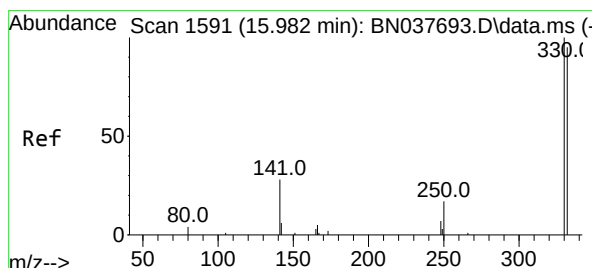
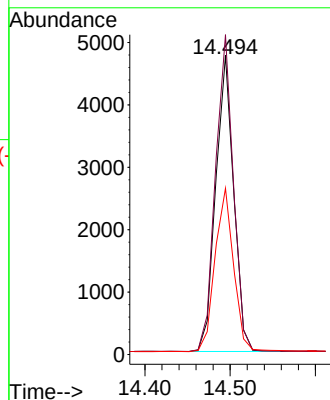
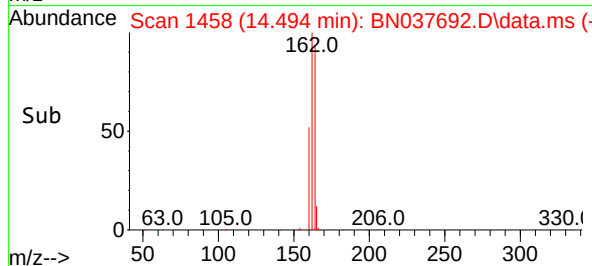
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



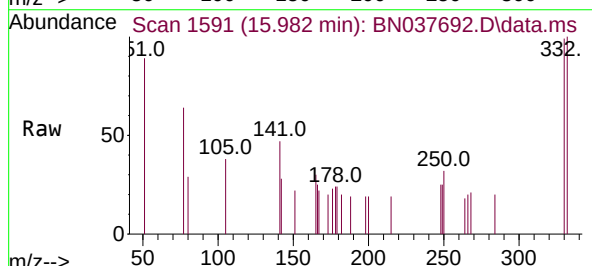
Tgt Ion:164 Resp: 6952
Ion Ratio Lower Upper
164 100
162 106.9 83.1 124.7
160 55.5 44.3 66.5

Manual Integrations
APPROVED

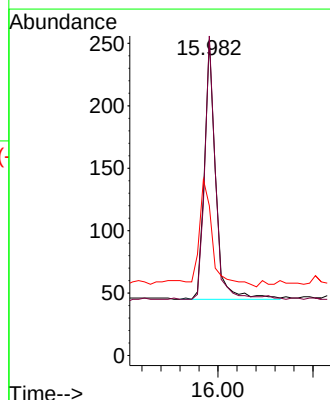
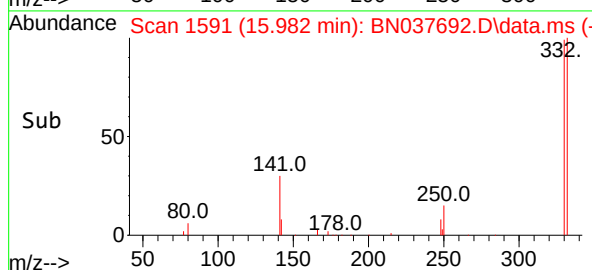
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

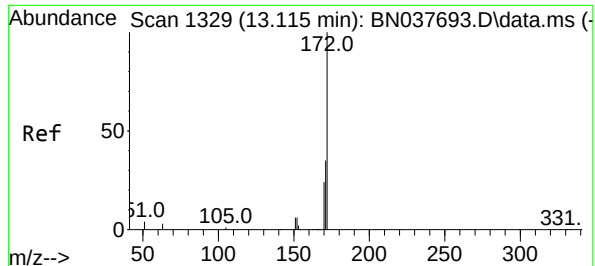


#14
2,4,6-Tribromophenol
Concen: 0.188 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32



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

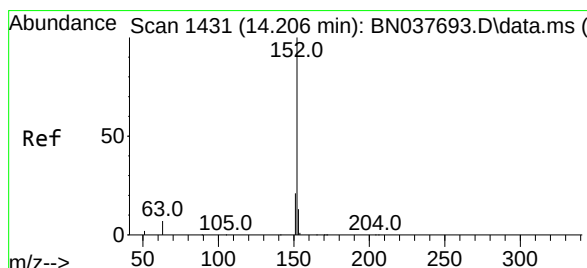
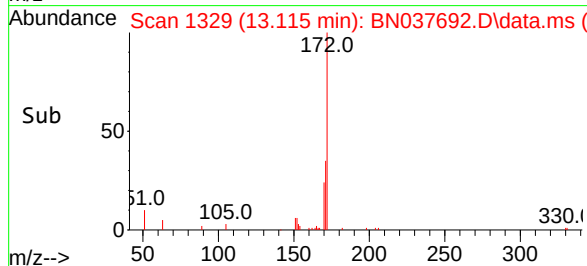
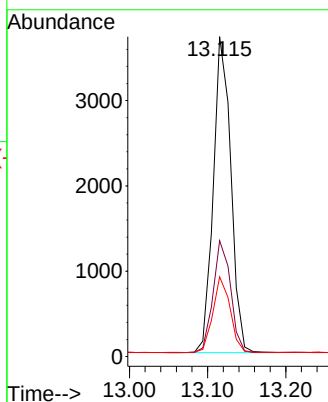
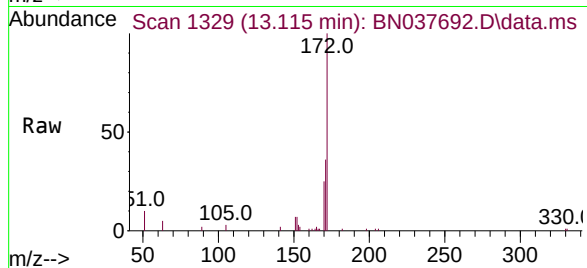
ClientSampleId :

SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.6	43.0
170	24.9	19.8	29.8

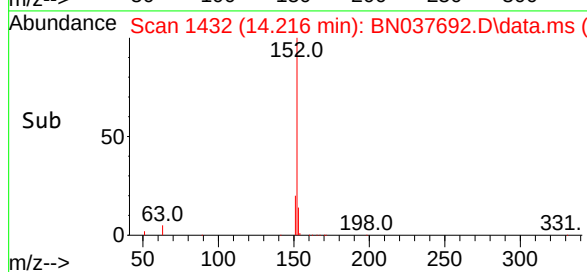
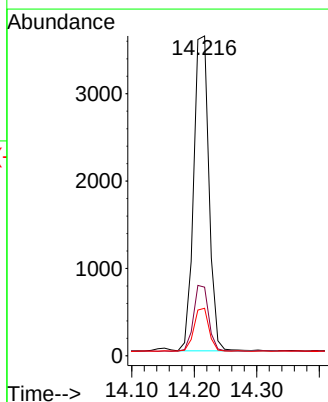
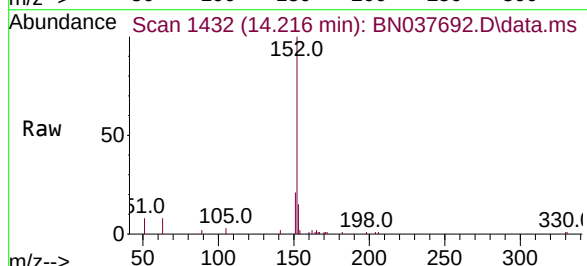
Manual Integrations
APPROVED

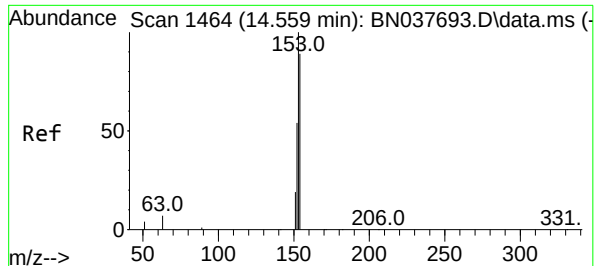
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#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

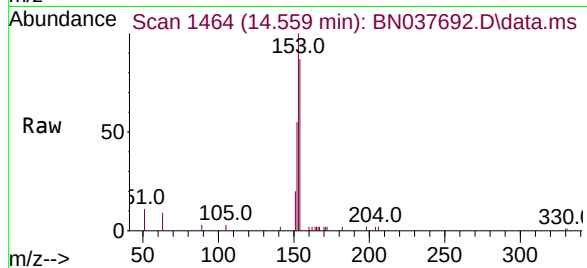
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.2	24.2
153	13.8	10.4	15.6





#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

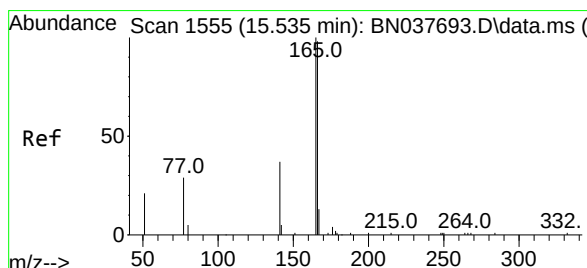
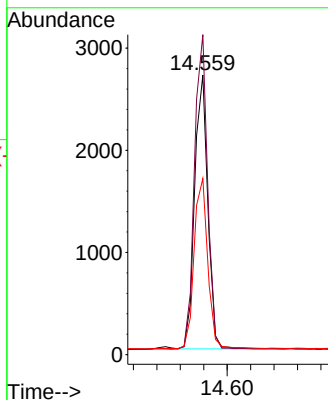
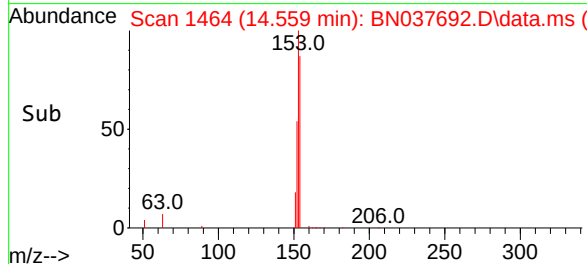
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

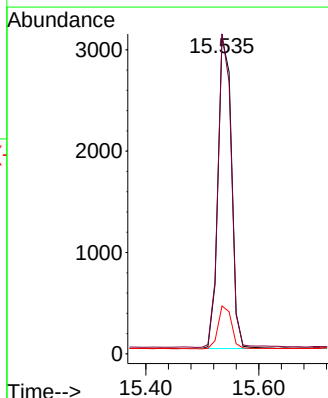
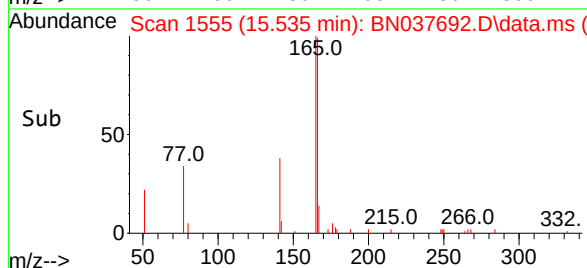
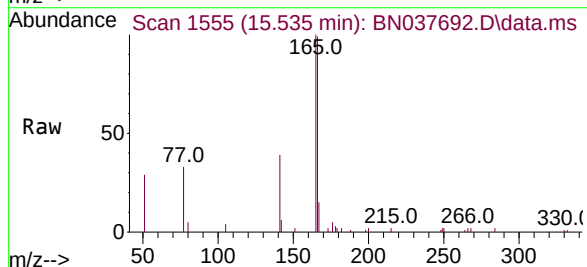
Manual Integrations
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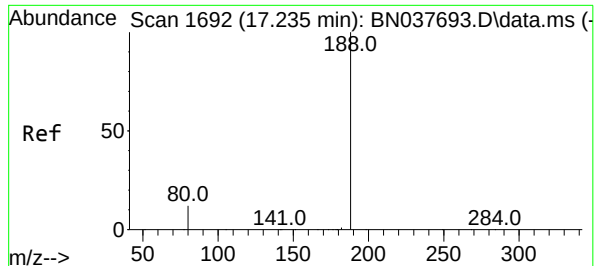
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#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 :

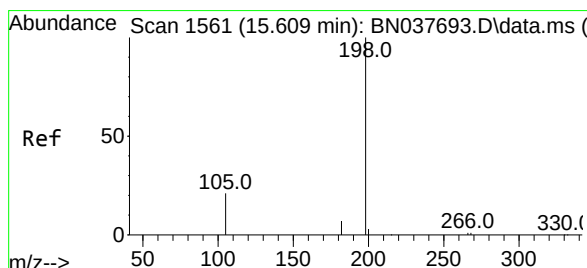
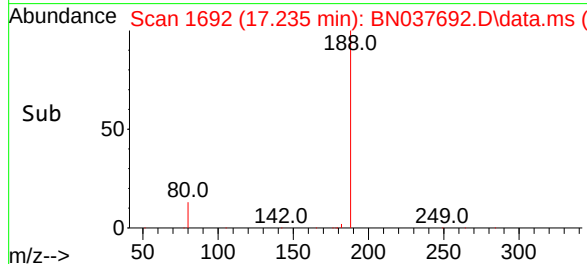
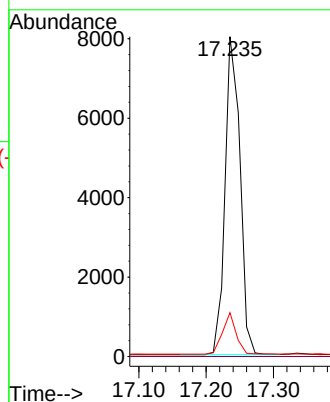
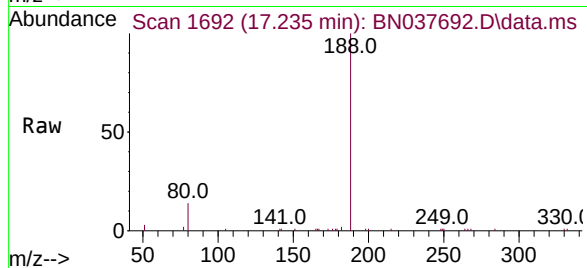
SSTDICC0.2

Tgt Ion	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

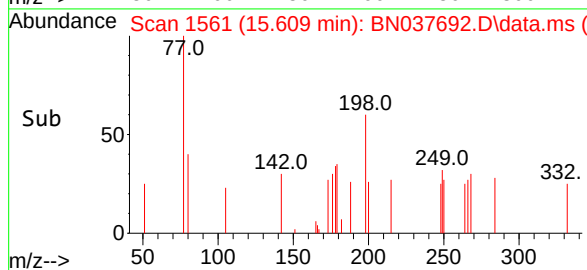
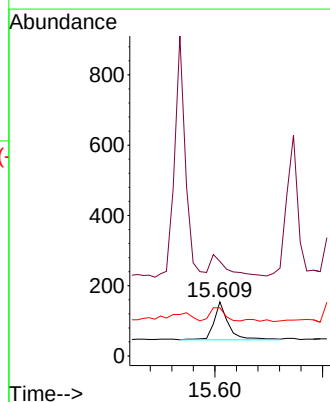
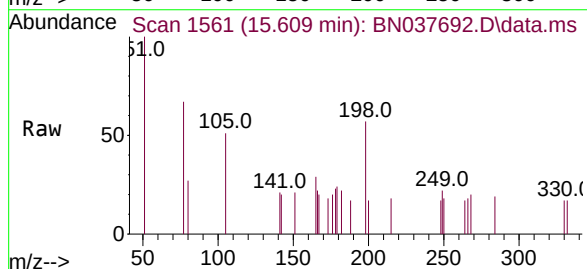
RT: 15.609 min Scan# 1561

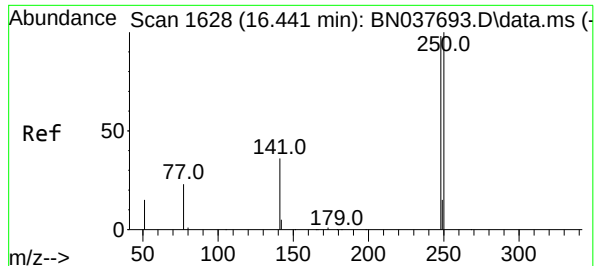
Delta R.T. 0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Tgt Ion	Ratio	Lower	Upper
198	100		
51	174.7	95.1	142.7#
105	89.0	53.8	80.6#





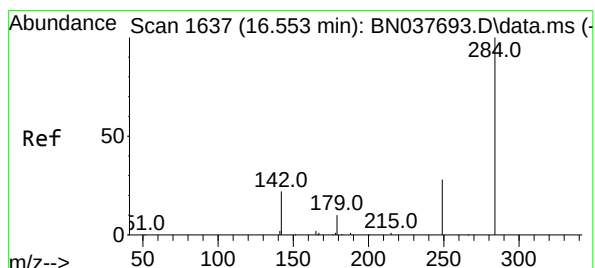
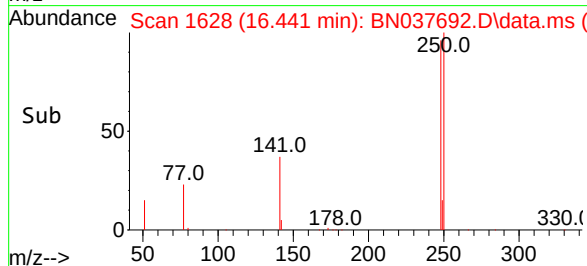
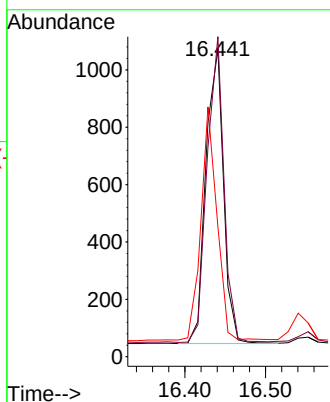
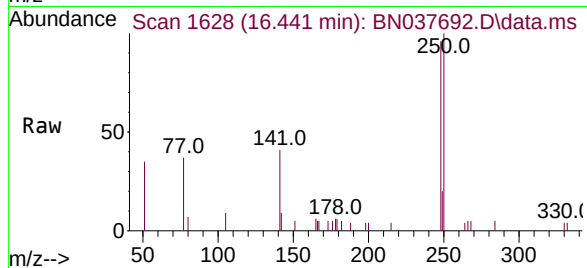
#21
4-Bromophenyl-phenylether
Concen: 0.193 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

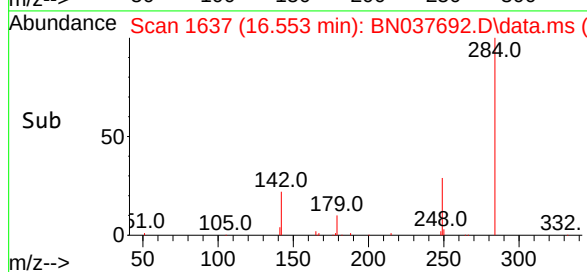
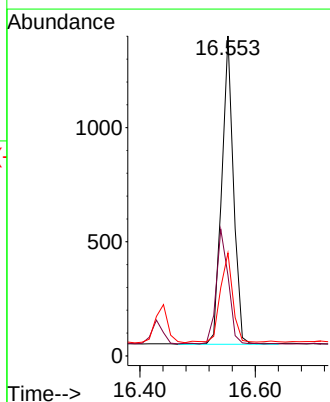
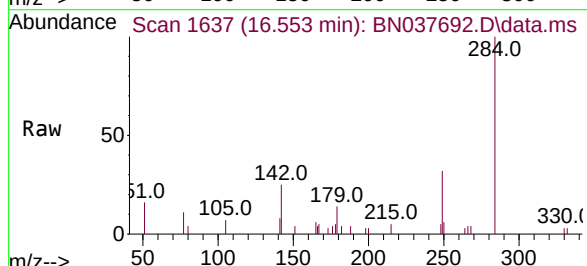
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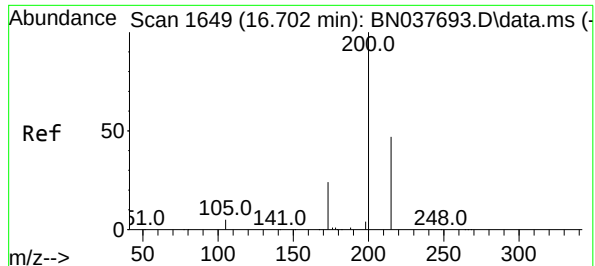
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#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





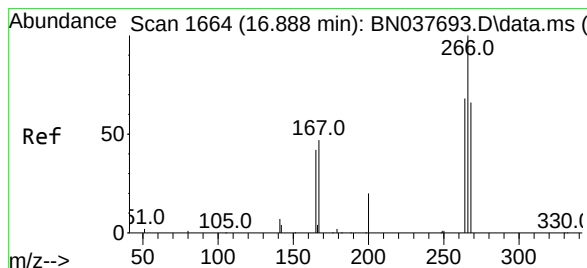
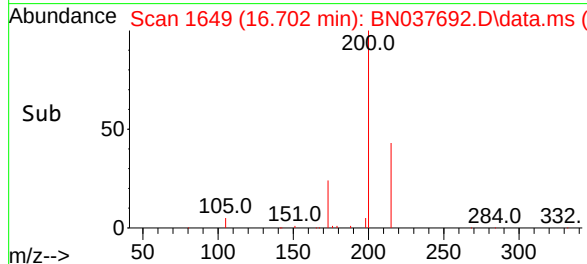
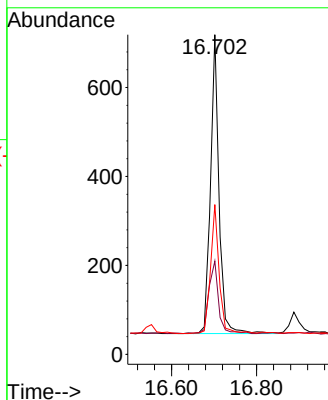
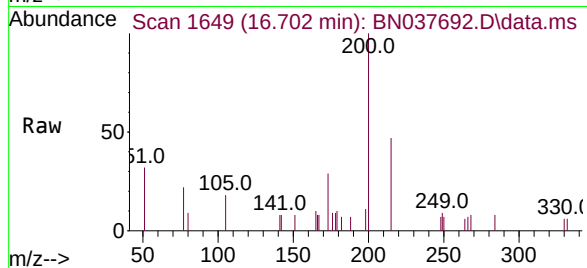
#23
Atrazine
Concen: 0.181 ng
RT: 16.702 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

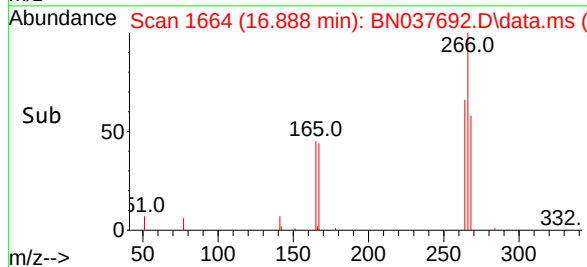
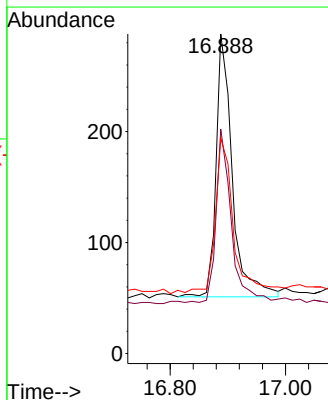
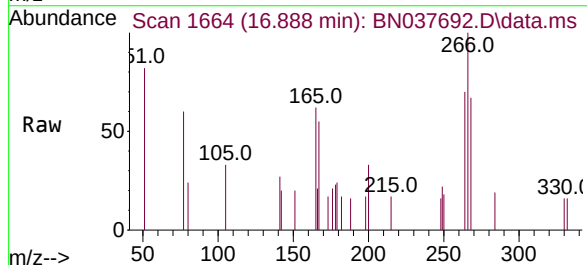
Manual Integrations
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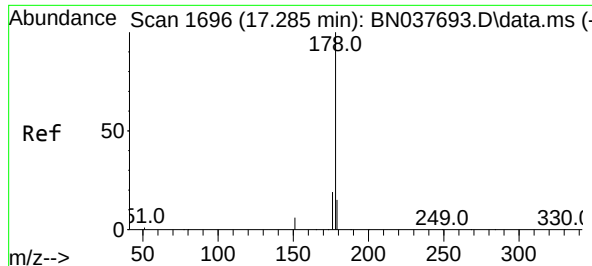
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#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





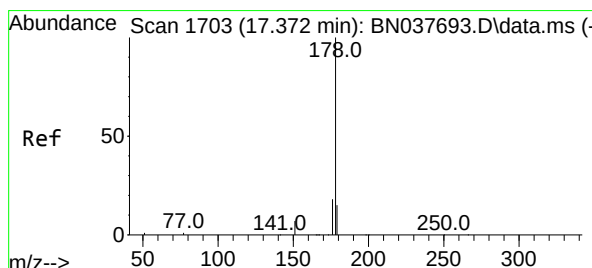
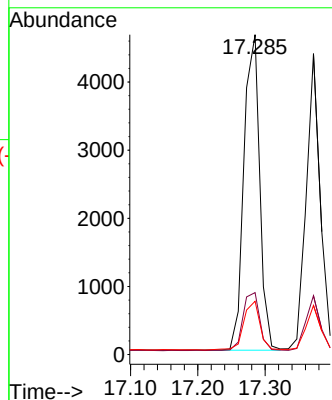
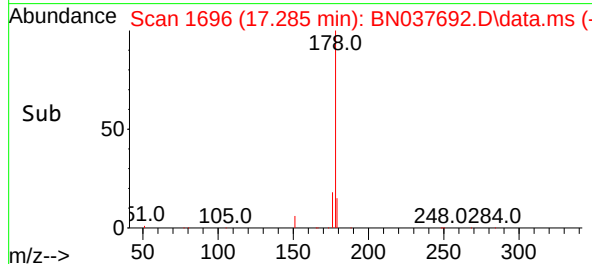
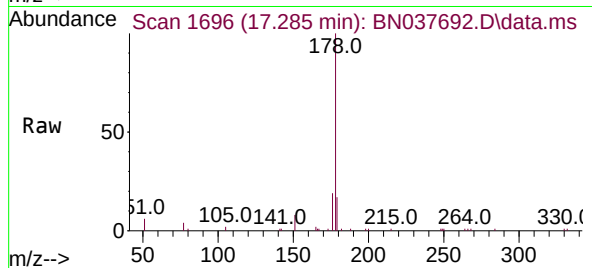
#25
Phenanthrene
Concen: 0.193 ng
RT: 17.285 min Scan# 1696
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

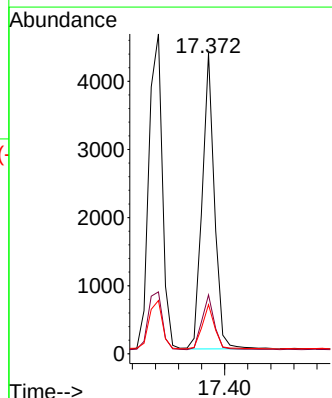
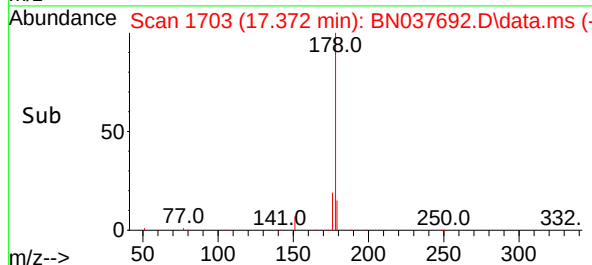
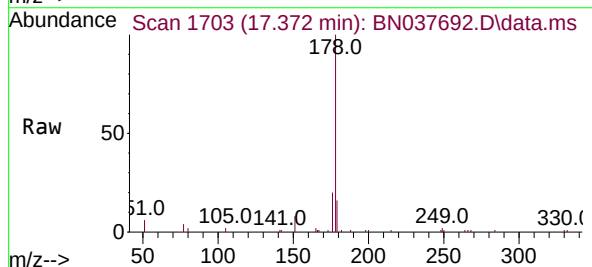
Manual Integrations
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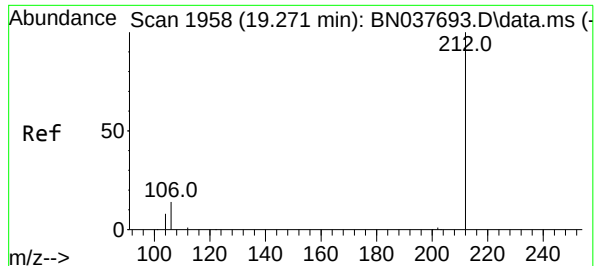
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#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 :

SSTDIC0.2

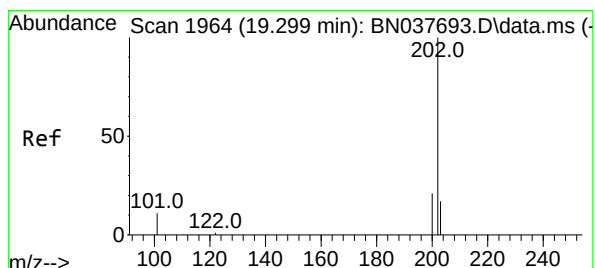
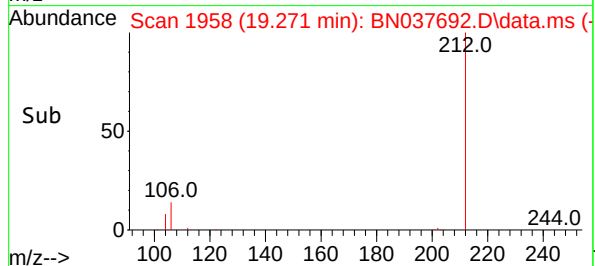
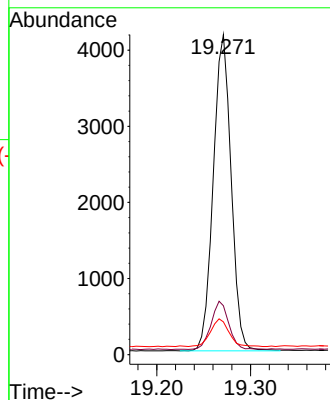
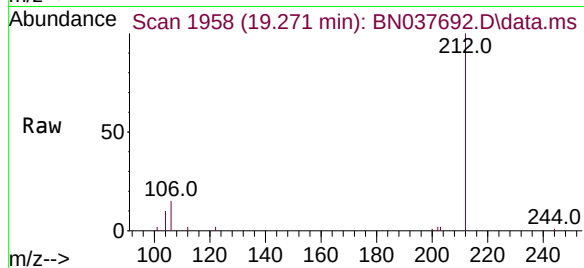
Tgt Ion:	212	Resp:	5492
Ion	Ratio	Lower	Upper
212	100		
106	15.4	12.2	18.2
104	9.0	6.9	10.3

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/12/2025

Supervised By :Jagrut Upadhyay 09/12/2025



#28

Fluoranthene

Concen: 0.177 ng

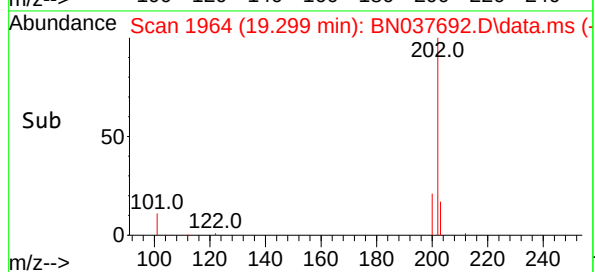
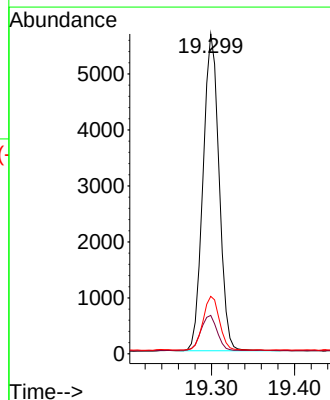
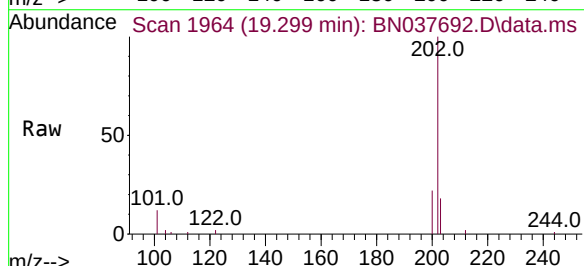
RT: 19.299 min Scan# 1964

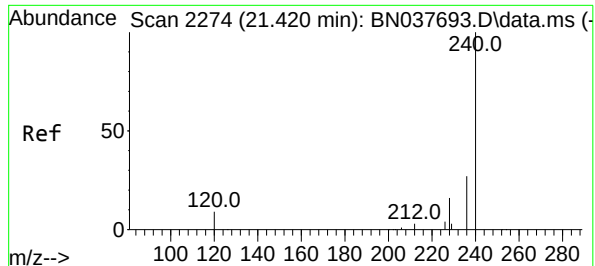
Delta R.T. -0.000 min

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 :

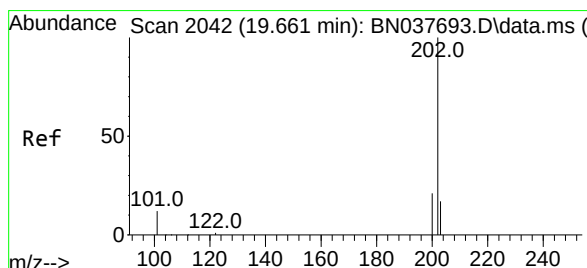
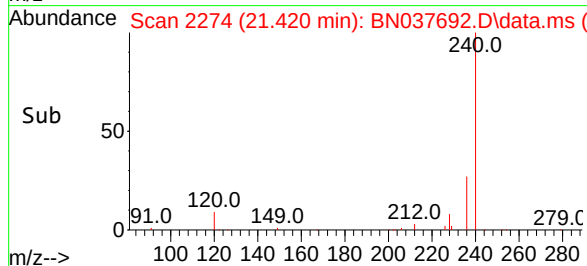
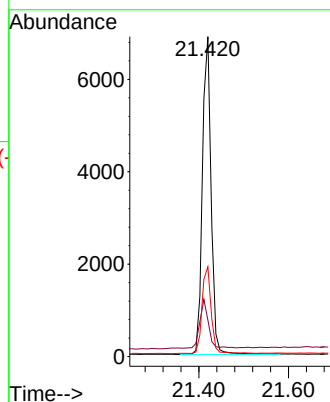
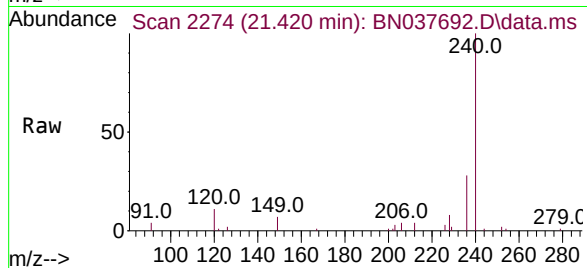
SSTDIC0.2

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

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 09/12/2025

Supervised By :Jagrut Upadhyay 09/12/2025



#30

Pyrene

Concen: 0.207 ng

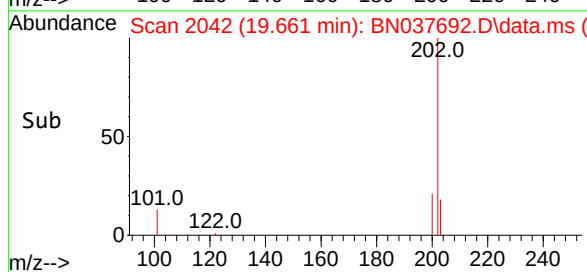
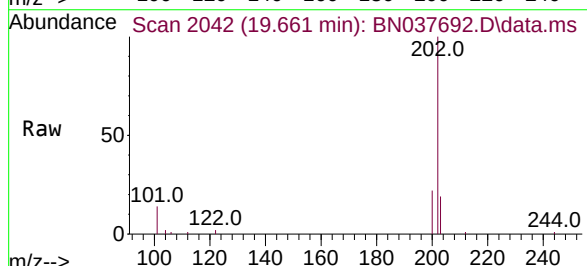
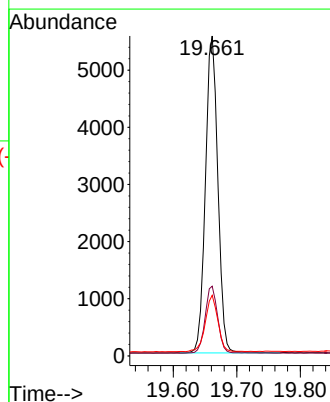
RT: 19.661 min Scan# 2042

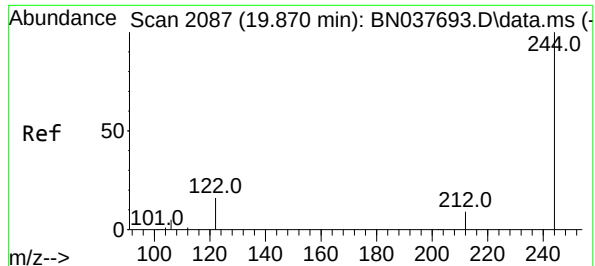
Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Tgt Ion:	202	Resp:	7543
Ion Ratio	Lower	Upper	
202	100		
200	21.2	16.8	25.2
203	18.3	14.3	21.5





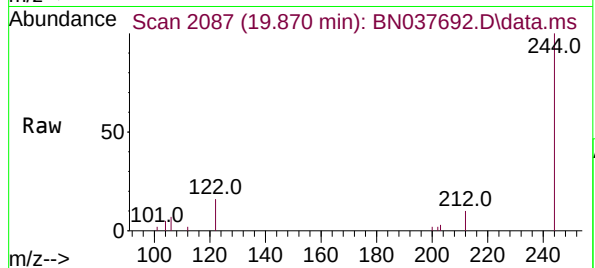
#31
Terphenyl-d14
Concen: 0.205 ng
RT: 19.870 min Scan# 2087
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

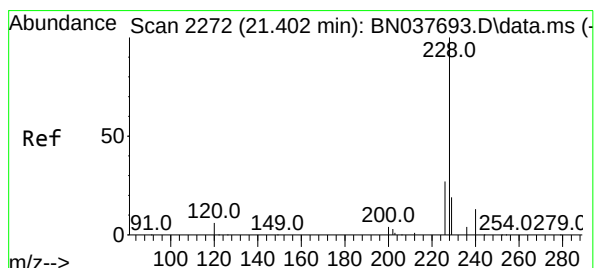
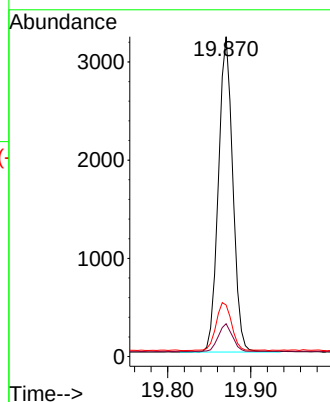
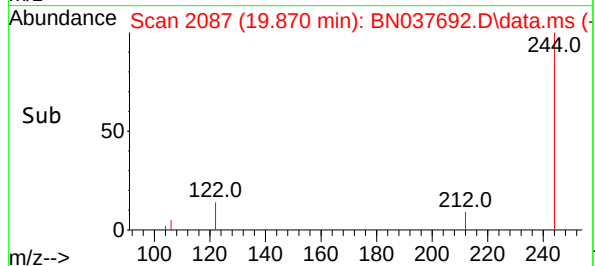
SSTDICC0.2



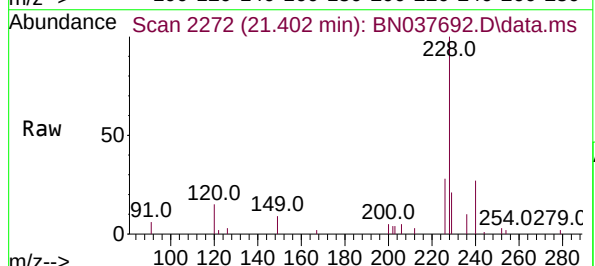
Tgt Ion:244 Resp: 3884
Ion Ratio Lower Upper
244 100
212 10.3 7.5 11.3
122 16.1 13.2 19.8

Manual Integrations
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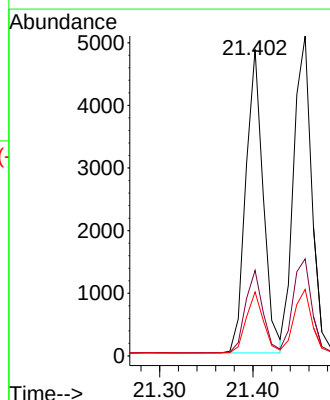
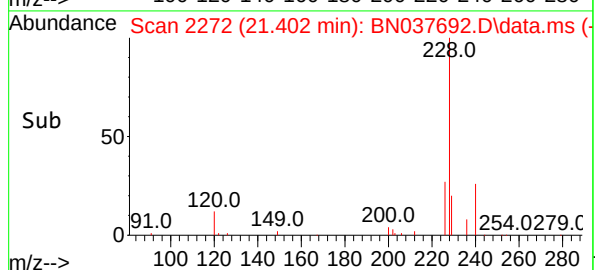
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

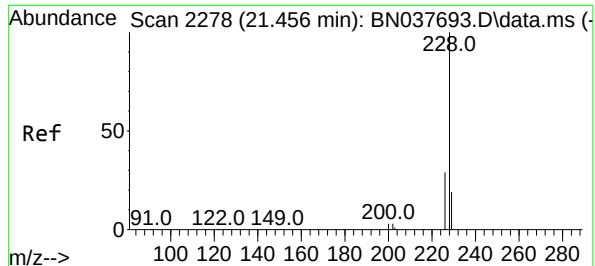


#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32



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# 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: 695

Ion Ratio Lower Upper

228 100

226 30.3 23.5 35.3

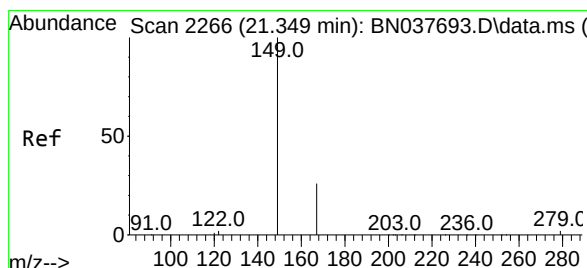
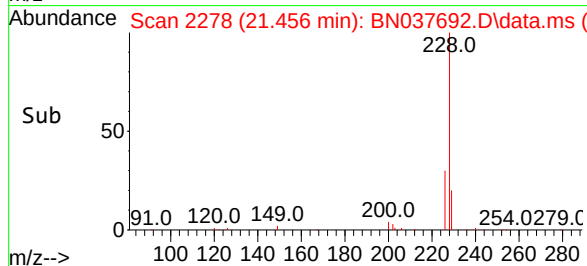
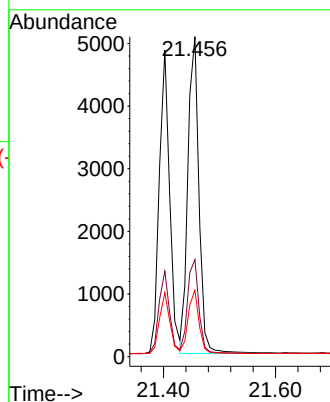
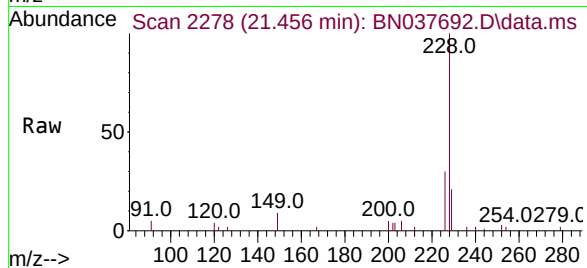
229 20.8 15.9 23.9

Manual Integrations

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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

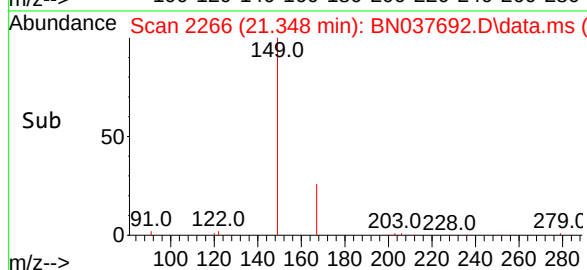
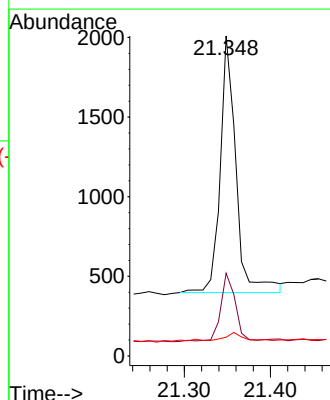
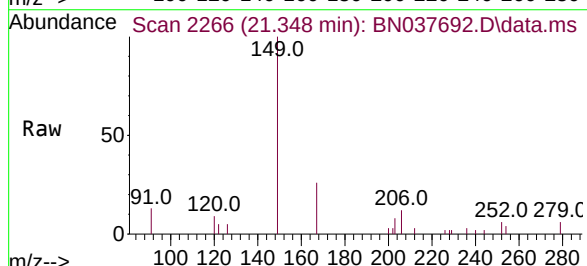
Tgt Ion:149 Resp: 2049

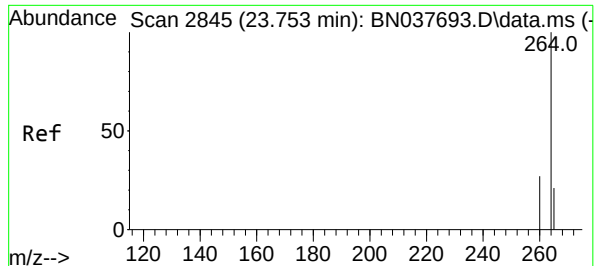
Ion Ratio Lower Upper

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

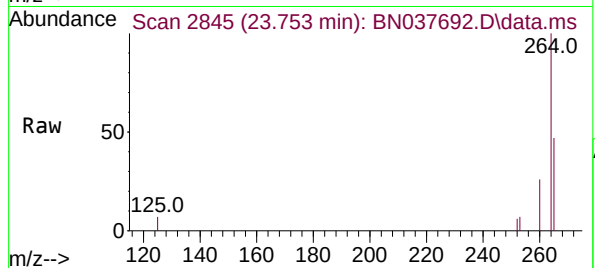
Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

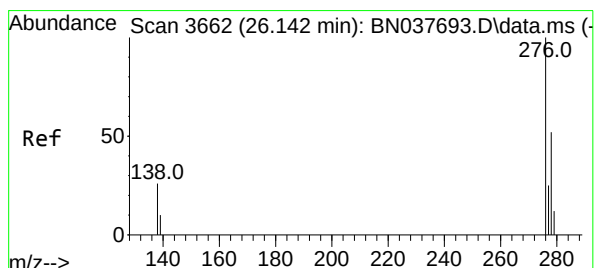
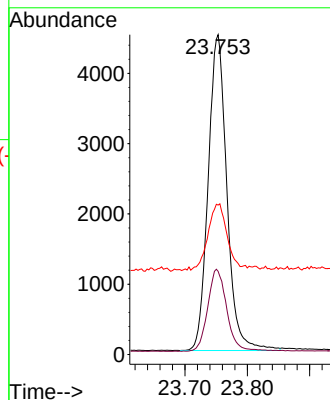
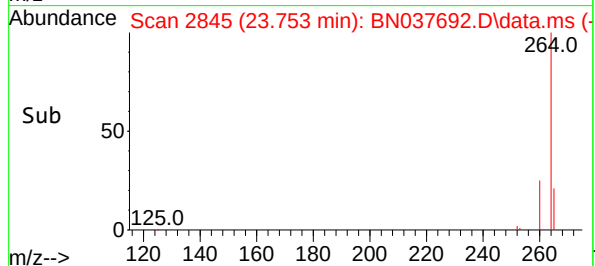


Tgt Ion:	264	Resp:	9364
Ion Ratio	Lower	Upper	
264	100		
260	26.0	21.8	32.8
265	46.7	39.4	59.2

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 09/12/2025

Supervised By :Jagrut Upadhyay 09/12/2025



#36

Indeno(1,2,3-cd)pyrene

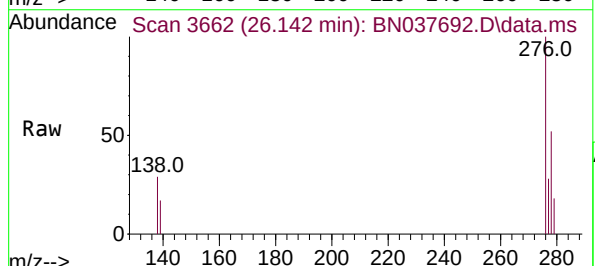
Concen: 0.177 ng

RT: 26.142 min Scan# 3662

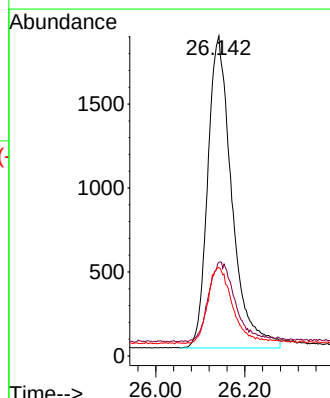
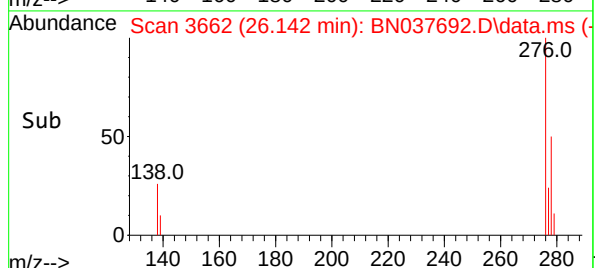
Delta R.T. -0.000 min

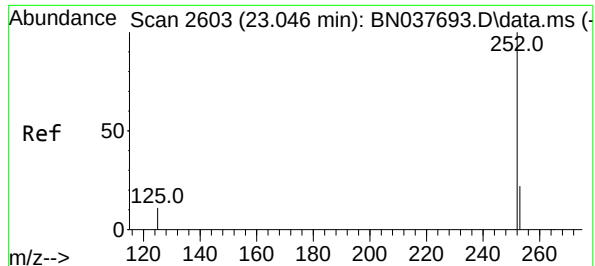
Lab File: BN037692.D

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

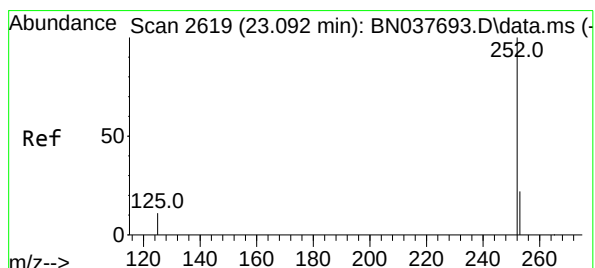
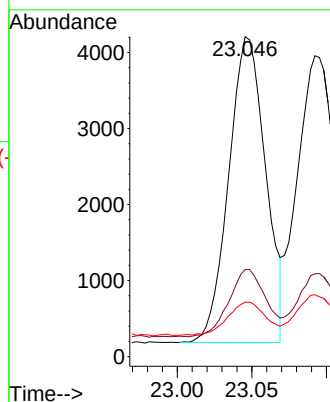
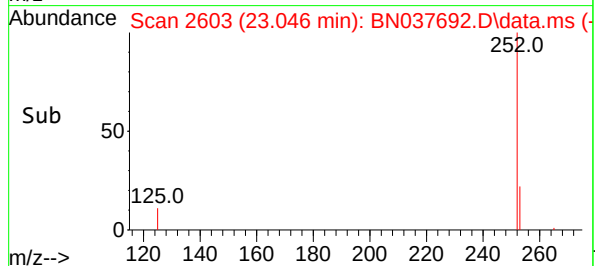
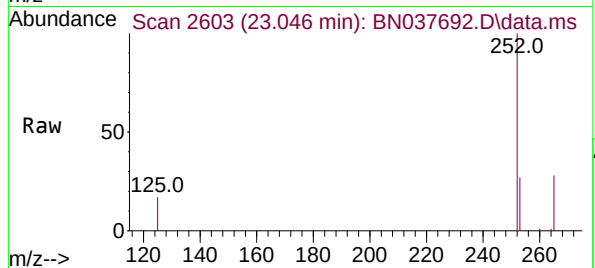
Tgt Ion:252	Resp:	690
Ion Ratio	Lower	Upper
252	100	
253	27.3	19.4 29.2
125	17.0	11.2 16.8

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

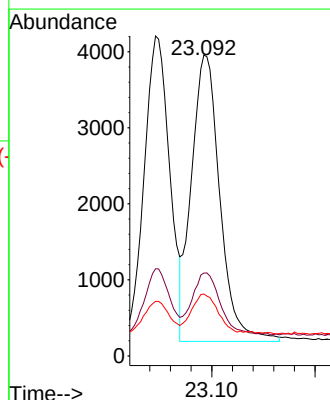
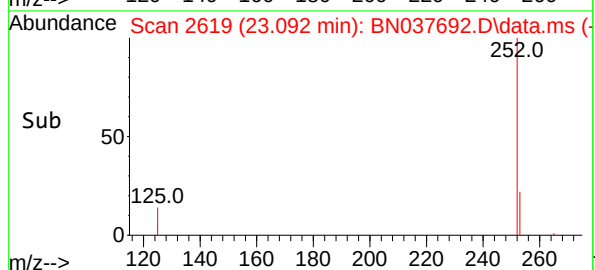
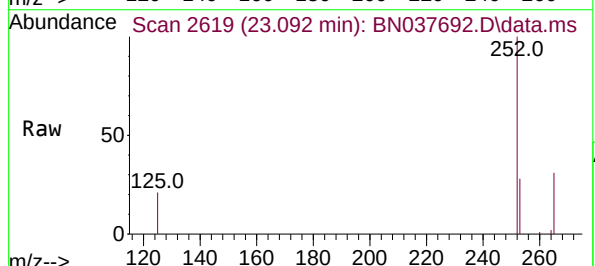
RT: 23.092 min Scan# 2619

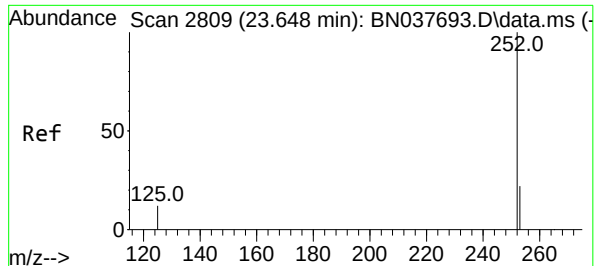
Delta R.T. -0.000 min

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

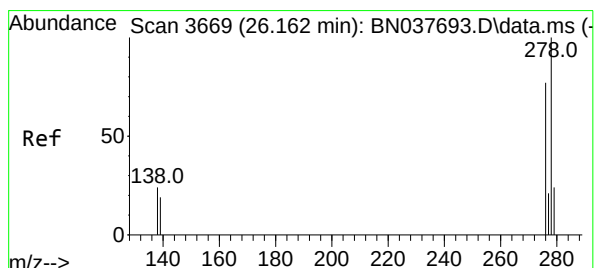
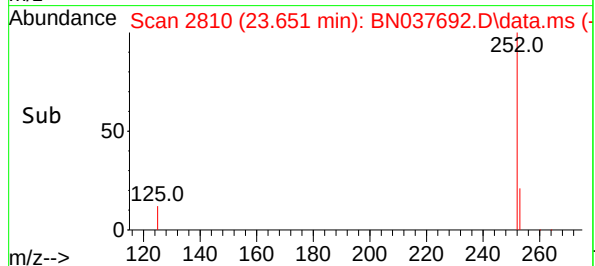
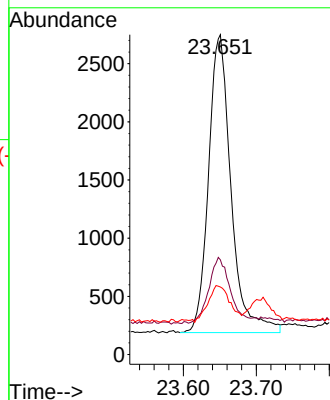
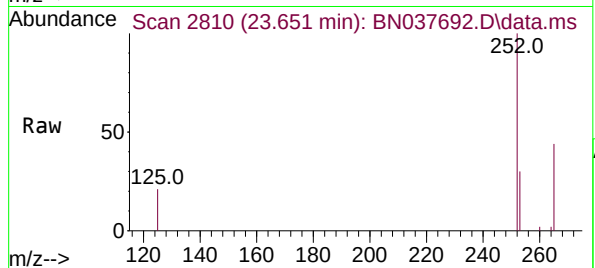
Tgt Ion:	252	Resp:	5489
Ion Ratio	Lower	Upper	
252	100		
253	29.6	20.8	31.2
125	21.1	13.9	20.9

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

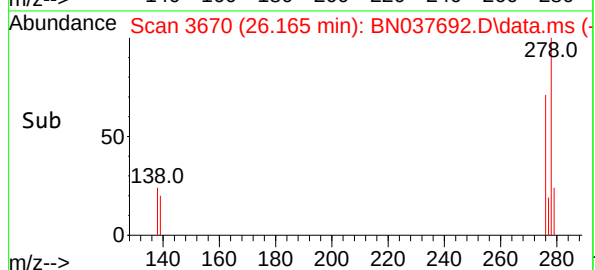
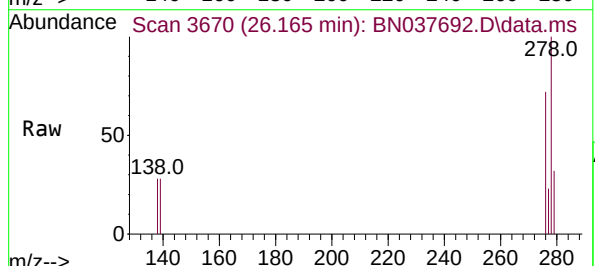
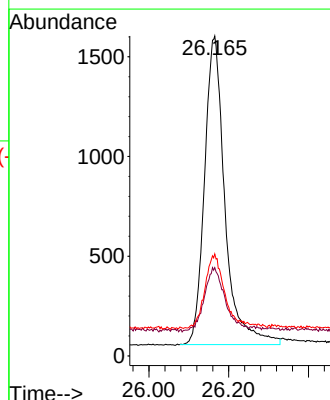
RT: 26.165 min Scan# 3670

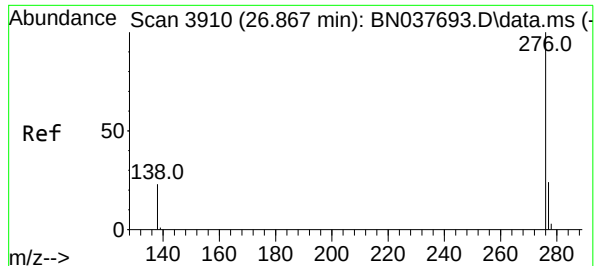
Delta R.T. 0.003 min

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# 3910

Delta R.T. -0.003 min

Lab File: BN037692.D

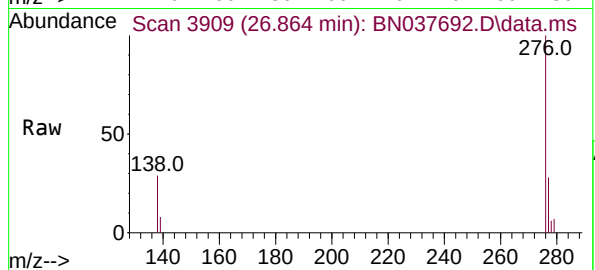
Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:276 Resp: 6566

Ion Ratio Lower Upper

276 100

277 27.6 20.6 31.0

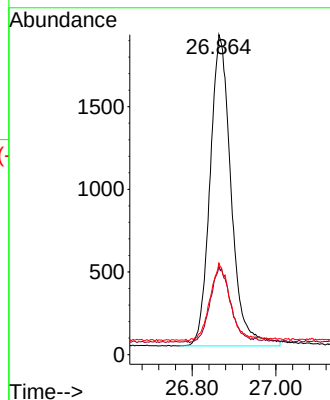
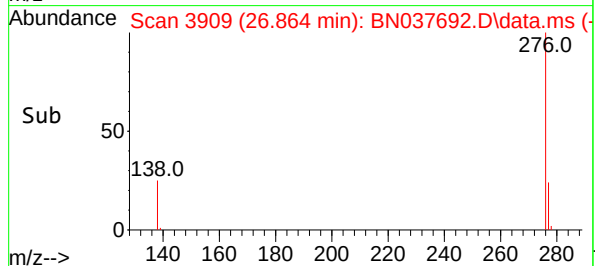
138 28.6 20.2 30.2

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

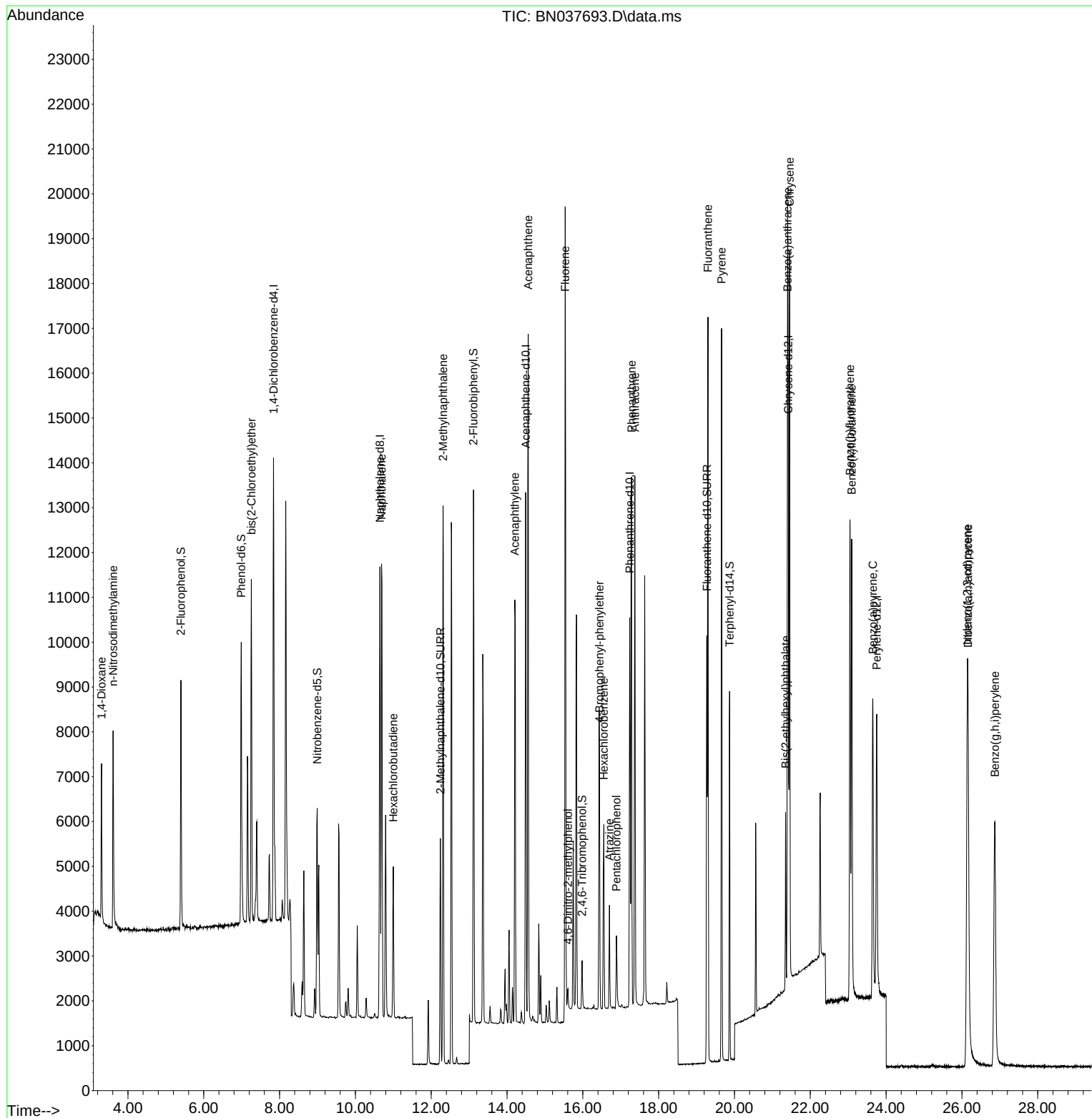
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	4992	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	13249	0.400	ng	0.00
13) Acenaphthene-d10	14.495	164	6204	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	11263	0.400	ng	0.00
29) Chrysene-d12	21.420	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

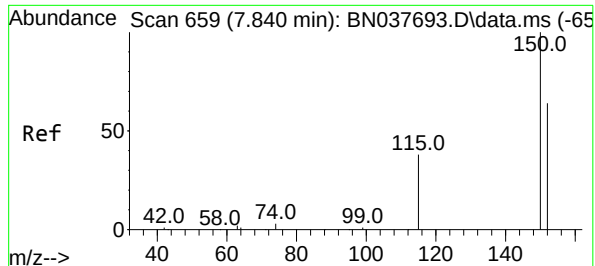
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

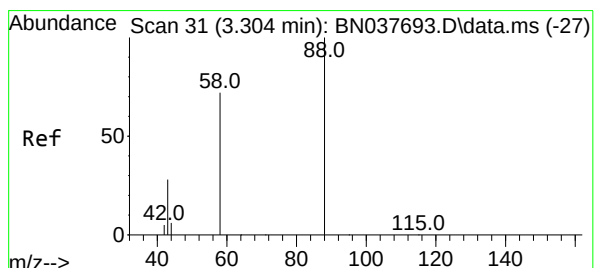
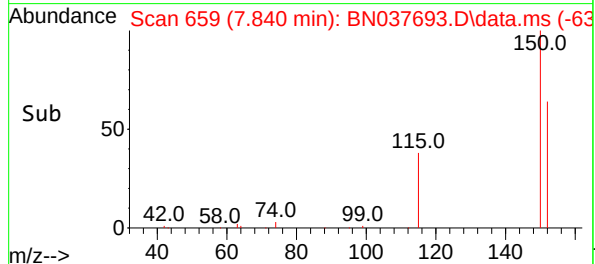
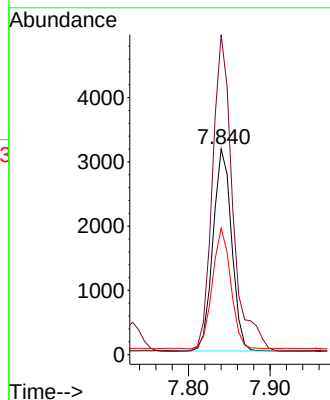
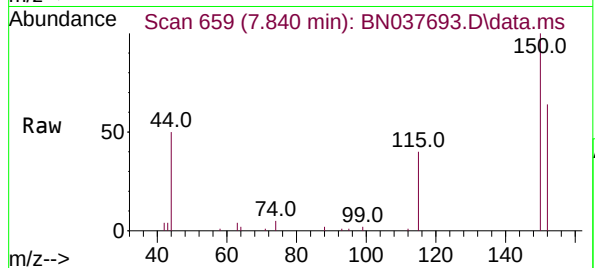




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

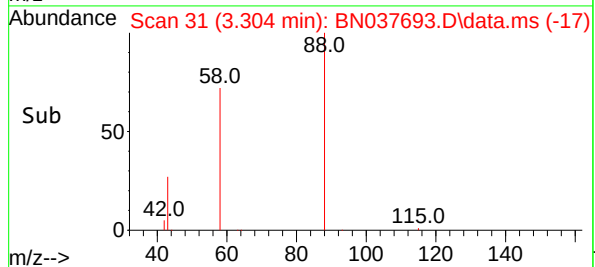
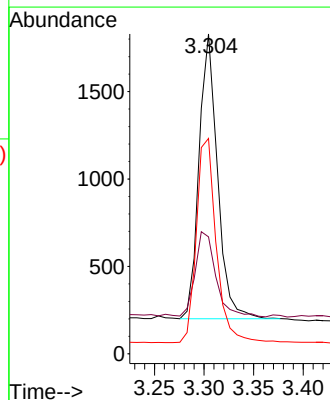
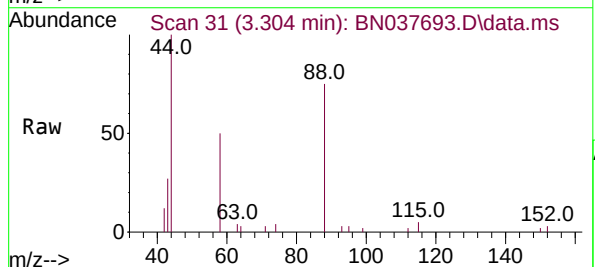
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

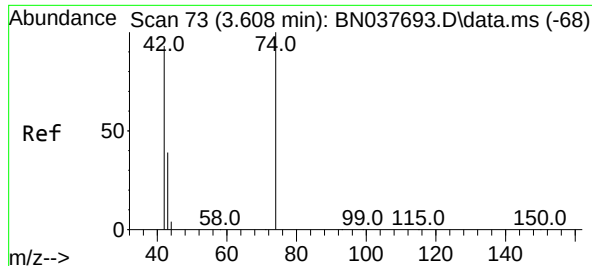
Tgt Ion:152 Resp: 4992
Ion Ratio Lower Upper
152 100
150 155.6 124.5 186.7
115 61.5 49.2 73.8



#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

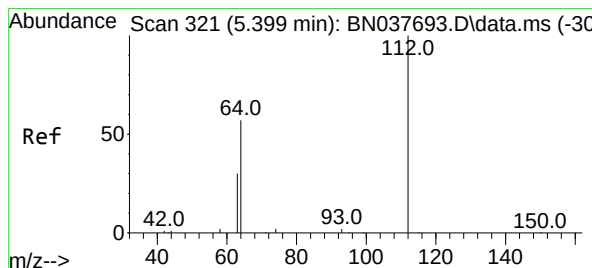
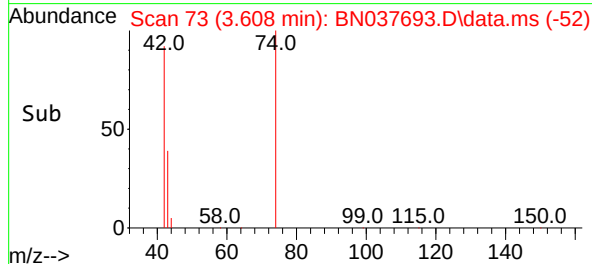
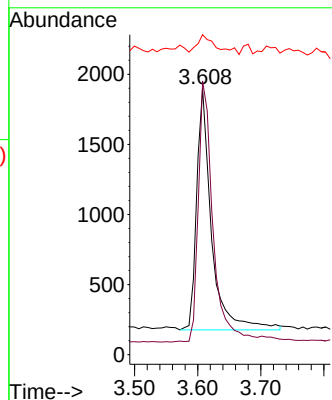
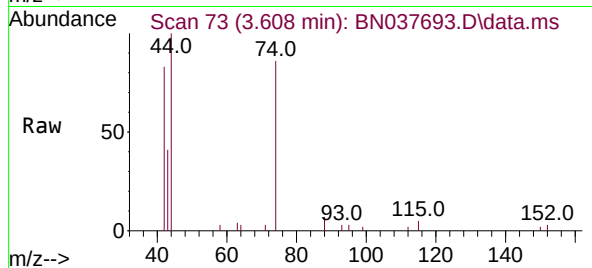




#3
n-Nitrosodimethylamine
Concen: 0.414 ng
RT: 3.608 min Scan# 73
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

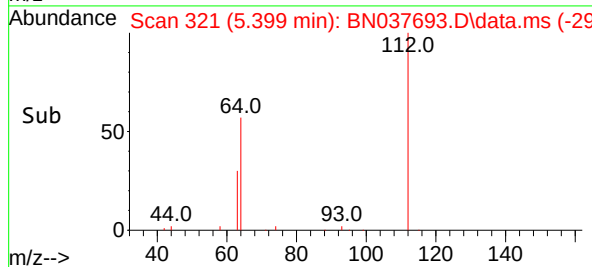
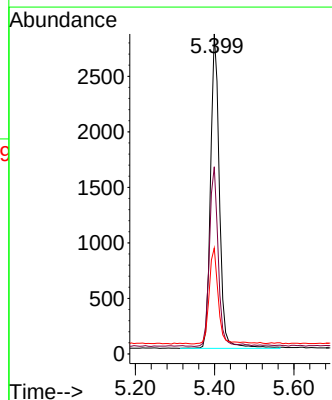
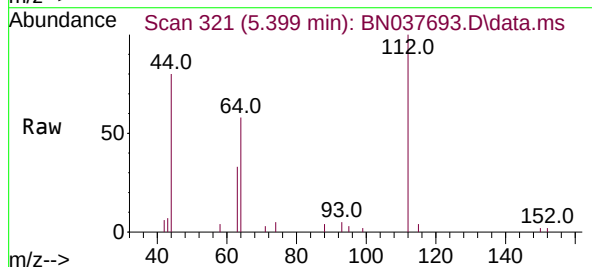
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

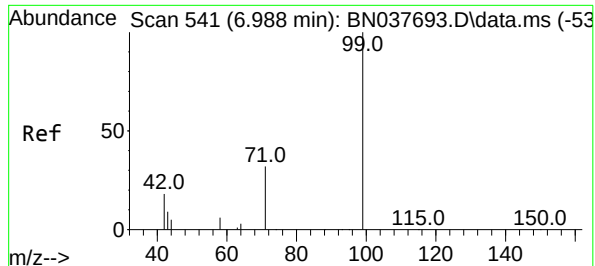
Tgt Ion: 42 Resp: 2814
Ion Ratio Lower Upper
42 100
74 106.5 86.0 129.0
44 10.4 8.4 12.6



#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

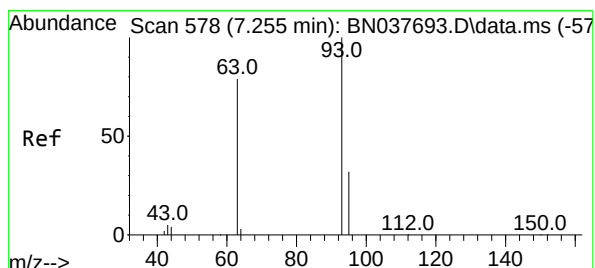
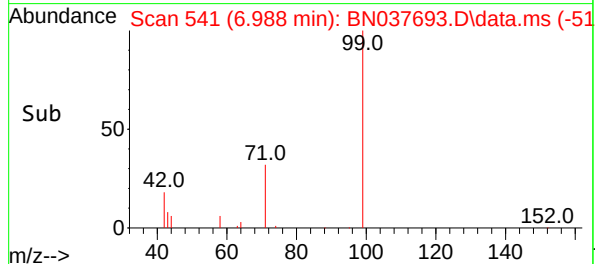
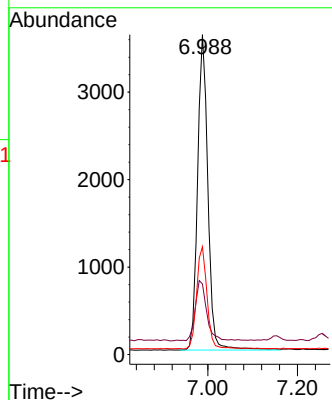
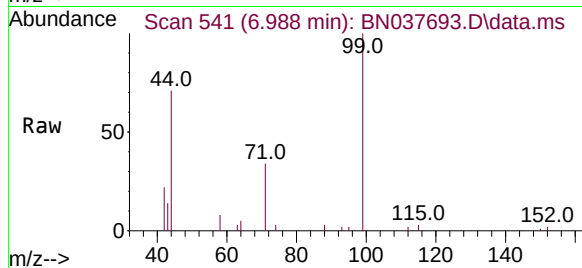




#5
Phenol-d6
Concen: 0.388 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

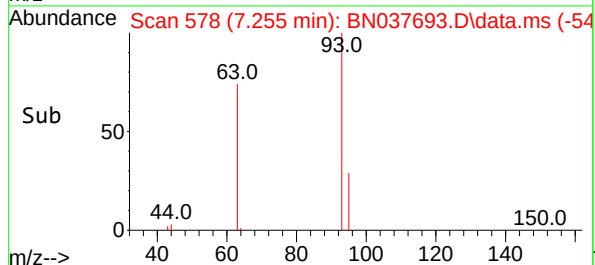
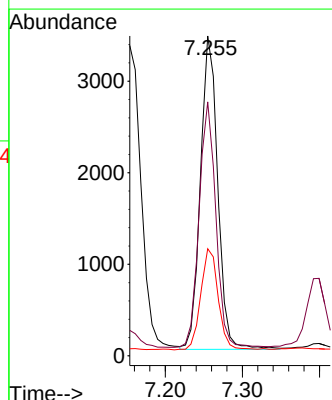
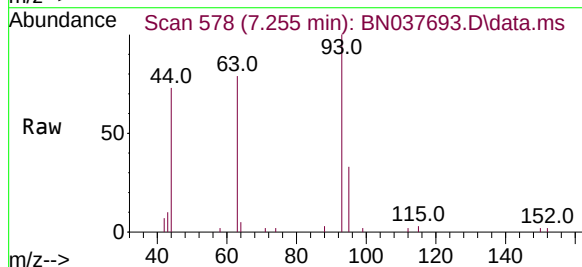
Instrument :
BNA_N
ClientSampleId :
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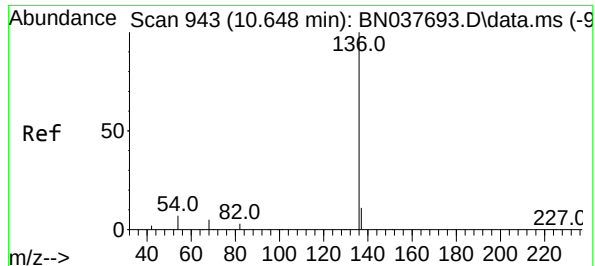
Tgt Ion: 99 Resp: 5771
Ion Ratio Lower Upper
99 100
42 20.7 16.6 24.8
71 33.4 26.7 40.1



#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

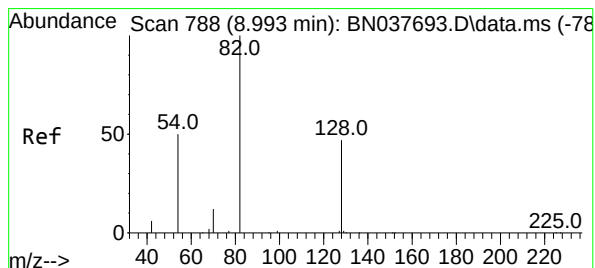
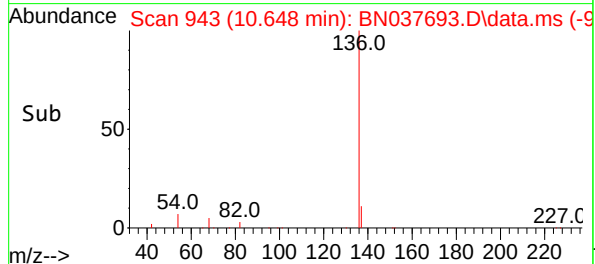
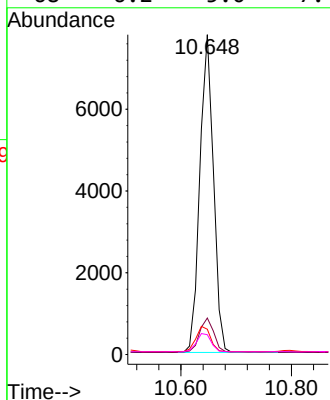
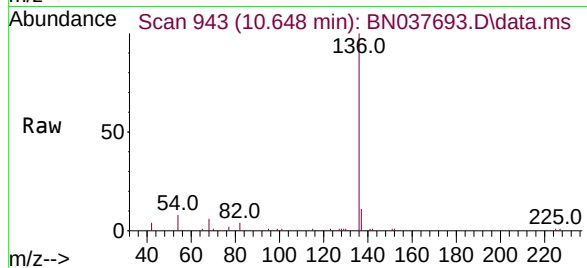




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

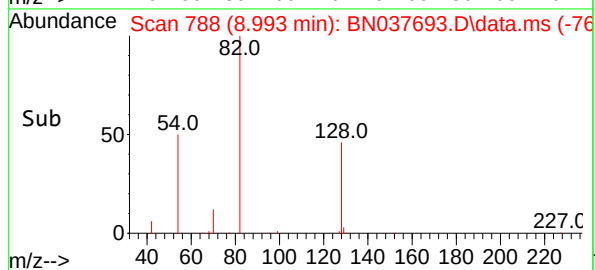
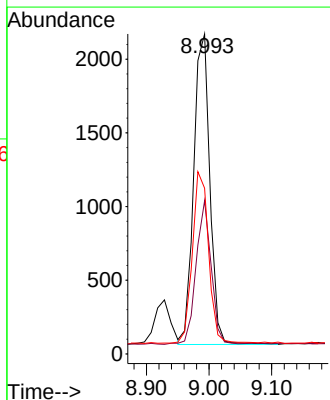
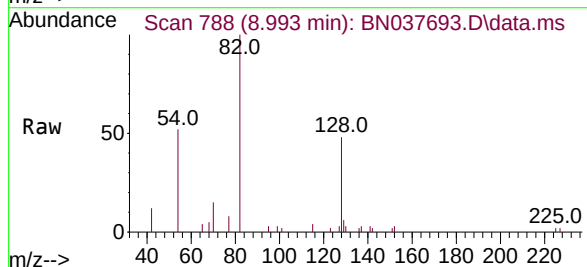
Instrument :
BNA_N
ClientSampleId :
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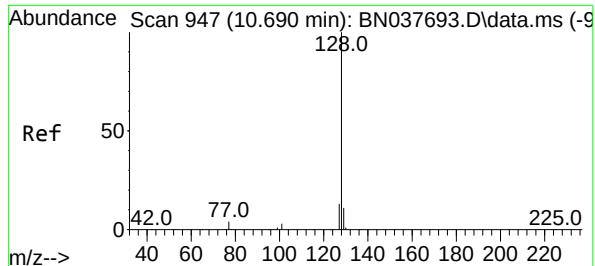
Tgt Ion:	136	Resp:	13249
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	7.9	6.3	9.5
68	6.2	5.0	7.4



#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

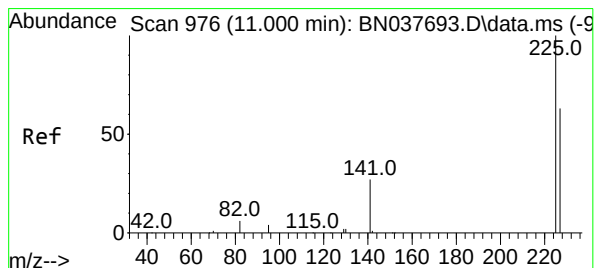
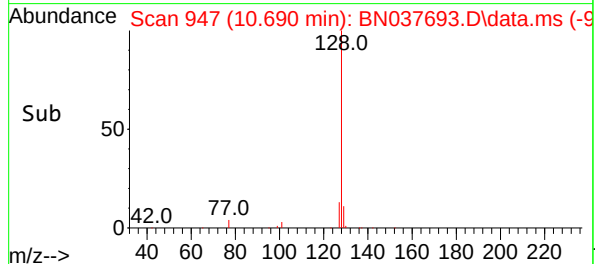
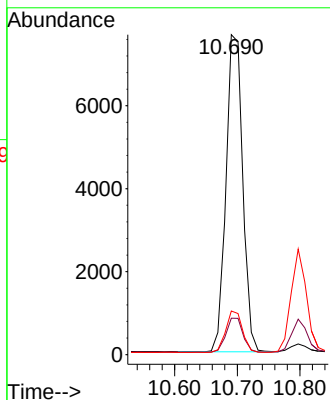
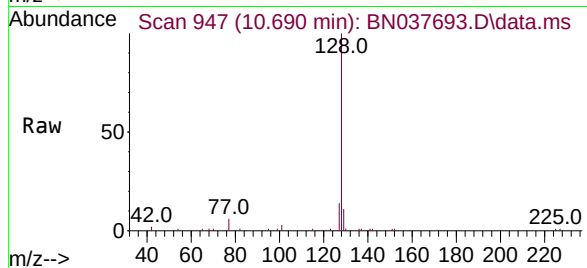




#9
Naphthalene
Concen: 0.393 ng
RT: 10.690 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

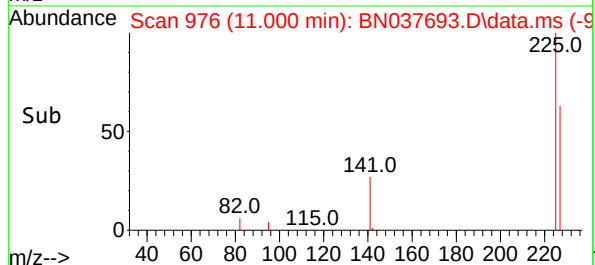
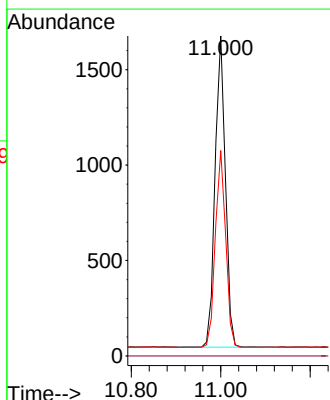
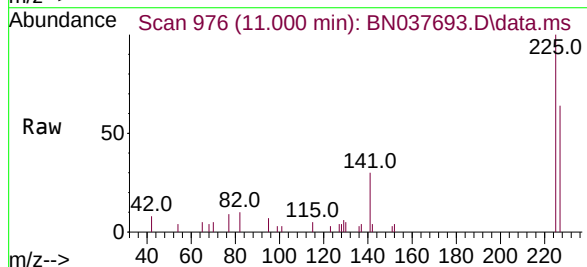
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

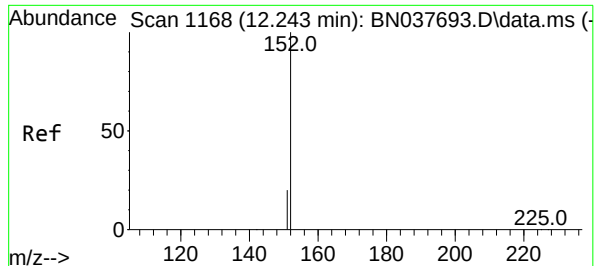
Tgt Ion:128 Resp: 14229
Ion Ratio Lower Upper
128 100
129 11.4 9.1 13.7
127 13.6 10.9 16.3



#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

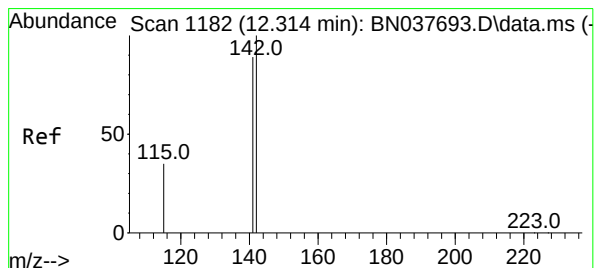
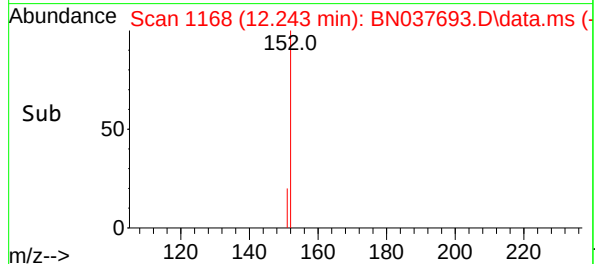
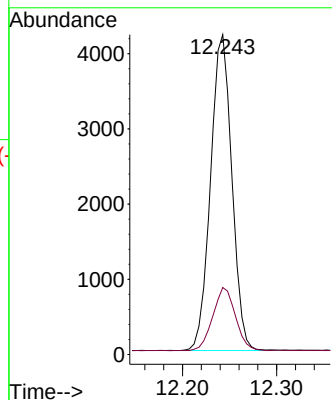
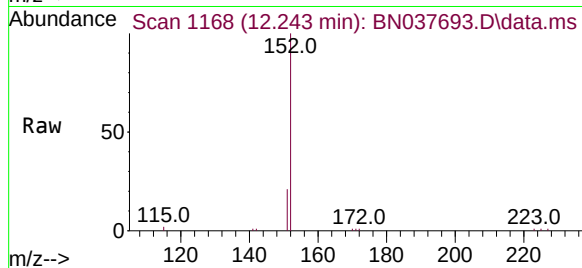




#11
2-Methylnaphthalene-d10
Concen: 0.376 ng
RT: 12.243 min Scan# 1168
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

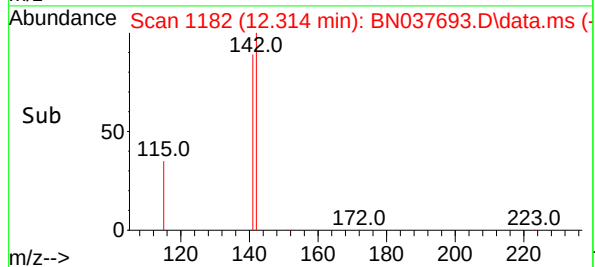
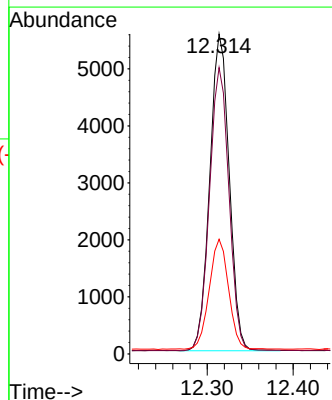
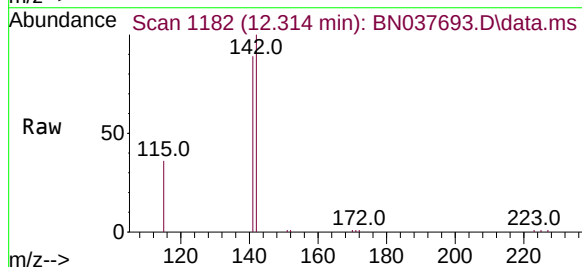
Instrument :
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ClientSampleId :
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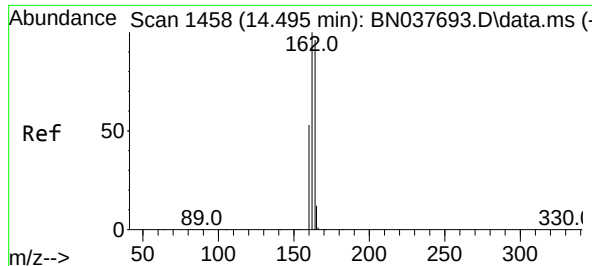
Tgt Ion:152 Resp: 6602
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#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

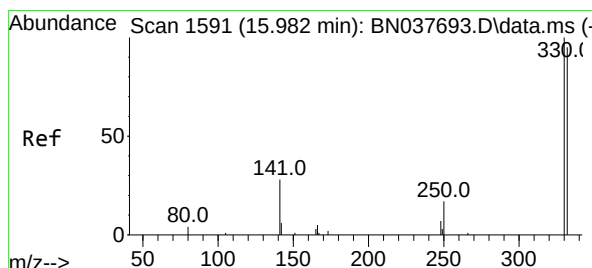
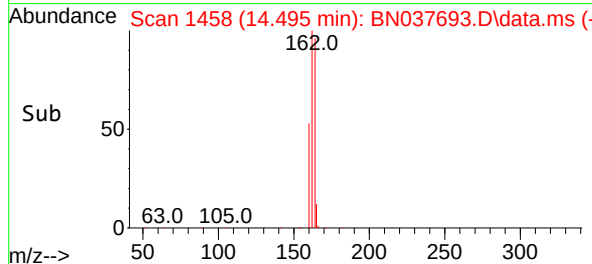
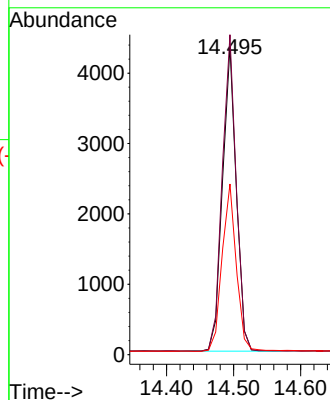
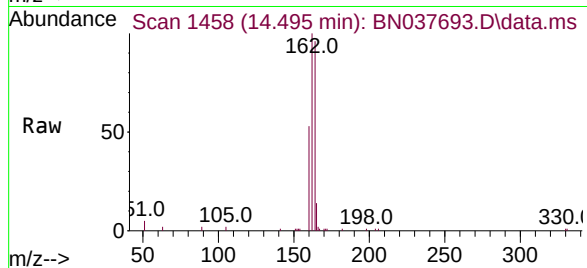




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 1458
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

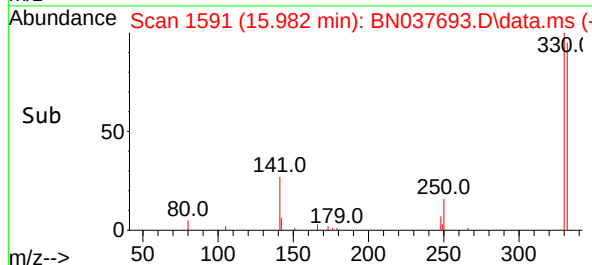
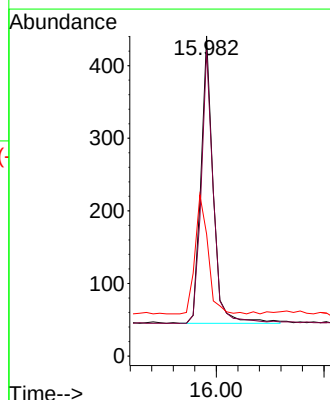
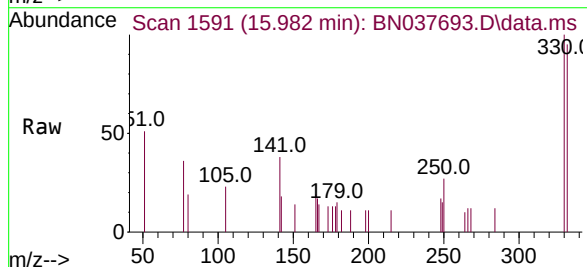
Instrument :
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ClientSampleId :
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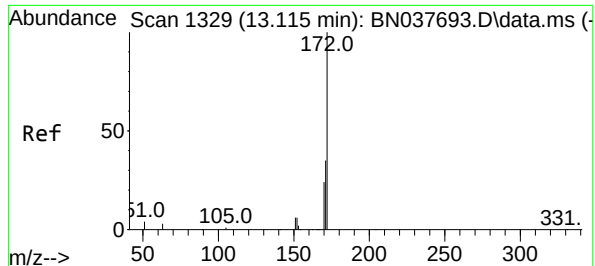
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.9	83.1	124.7
160	55.4	44.3	66.5



#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

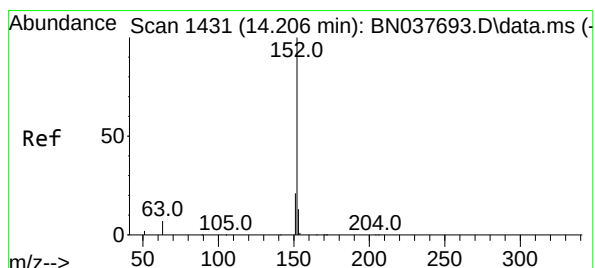
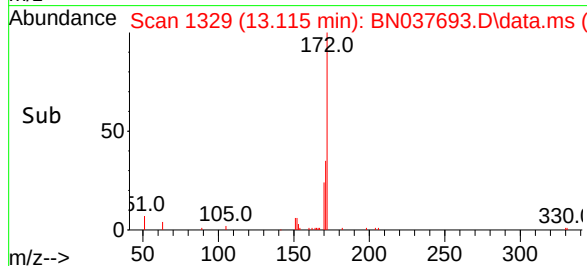
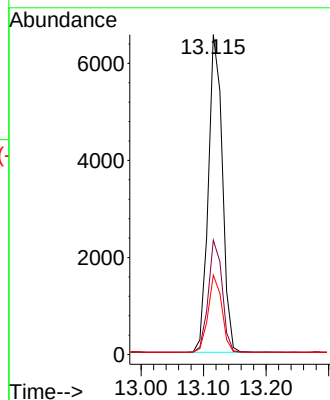
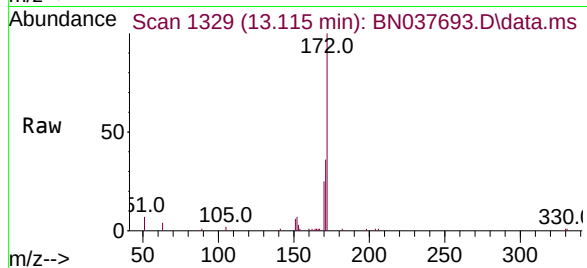
Tgt Ion:172 Resp: 10228

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

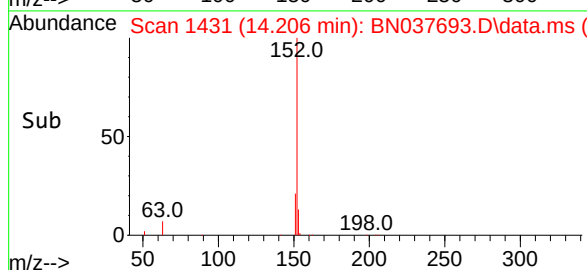
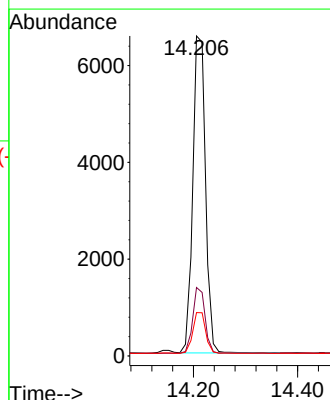
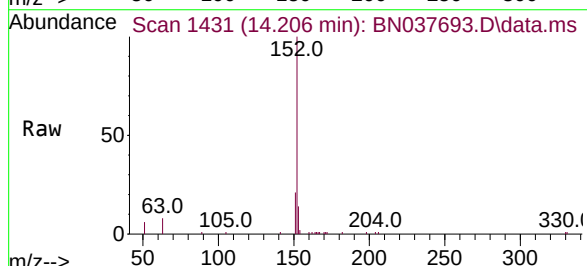
Tgt Ion:152 Resp: 11064

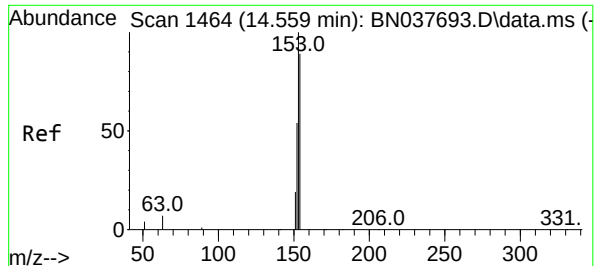
Ion Ratio Lower Upper

152 100

151 20.2 16.2 24.2

153 13.0 10.4 15.6

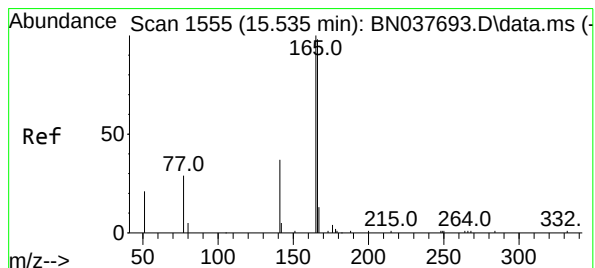
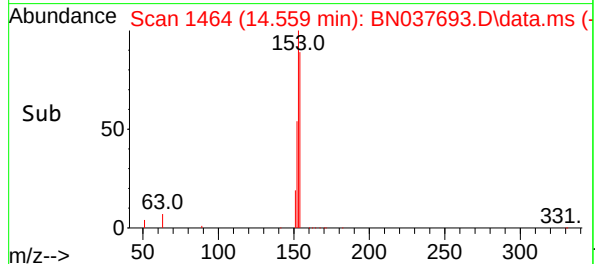
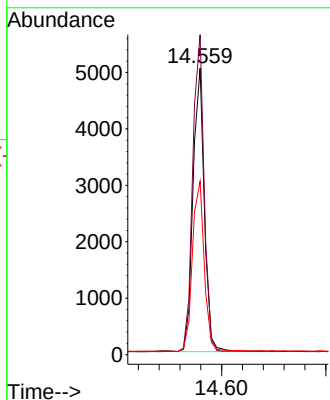
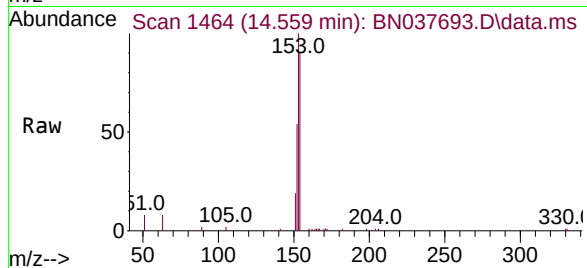




#17
Acenaphthene
Concen: 0.392 ng
RT: 14.559 min Scan# 1464
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

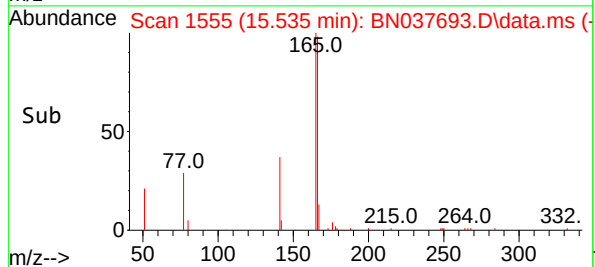
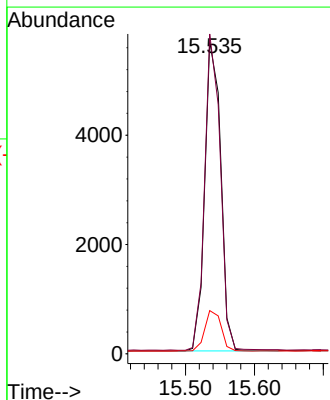
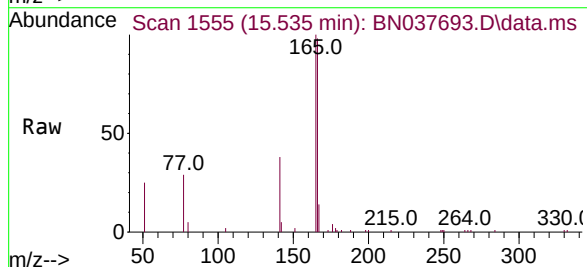
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

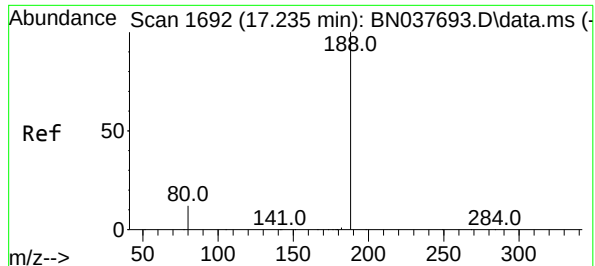
Tgt Ion:154 Resp: 7540
Ion Ratio Lower Upper
154 100
153 112.3 89.8 134.8
152 62.7 50.2 75.2



#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 Resp: 8938
Ion Ratio Lower Upper
166 100
165 99.5 79.6 119.4
167 13.3 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: BN037693.D

Acq: 11 Sep 2025 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

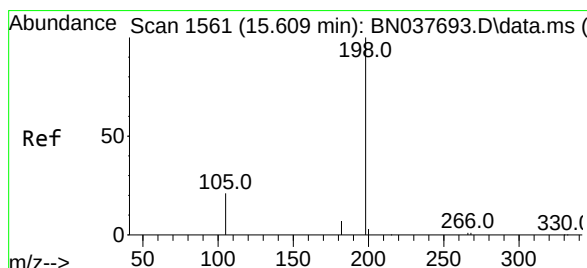
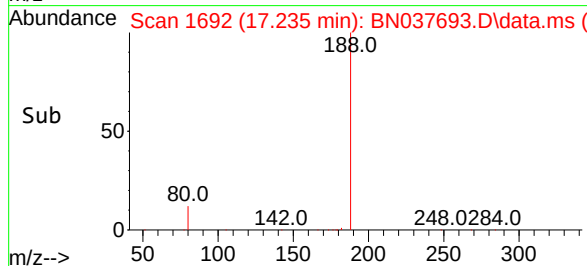
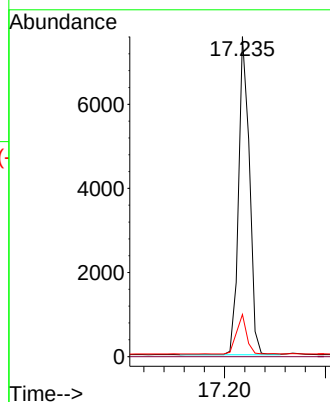
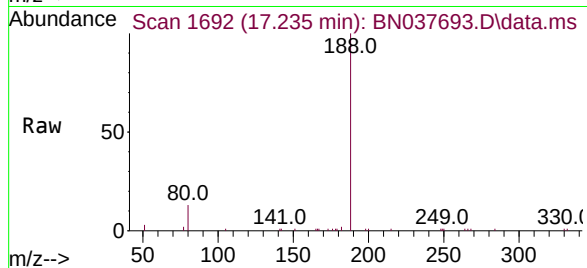
Tgt Ion:188 Resp: 11263

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

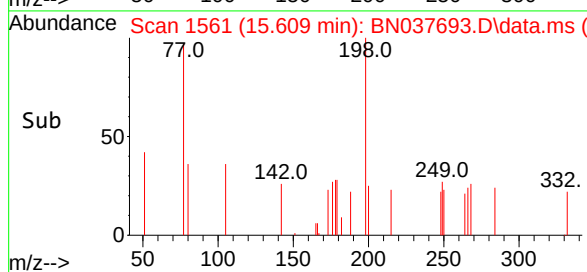
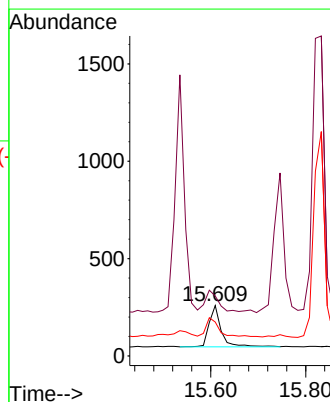
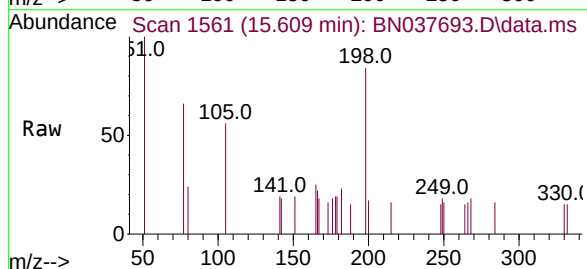
Tgt Ion:198 Resp: 372

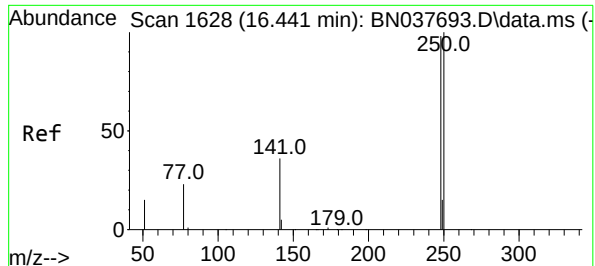
Ion Ratio Lower Upper

198 100

51 118.9 95.1 142.7

105 67.2 53.8 80.6

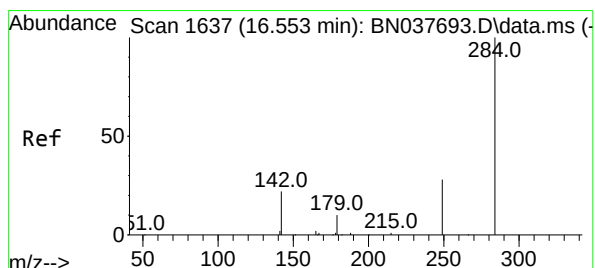
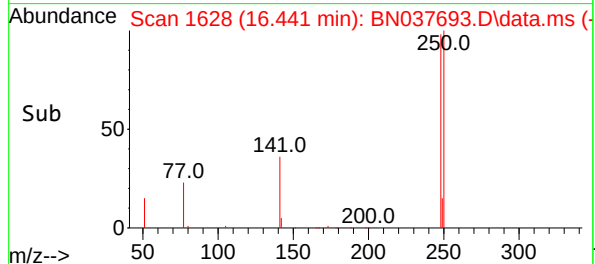
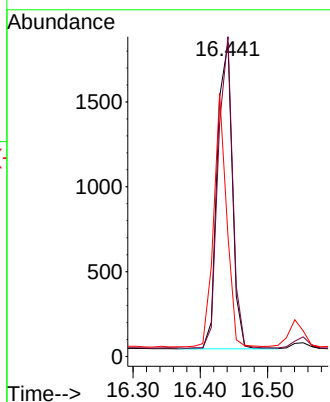
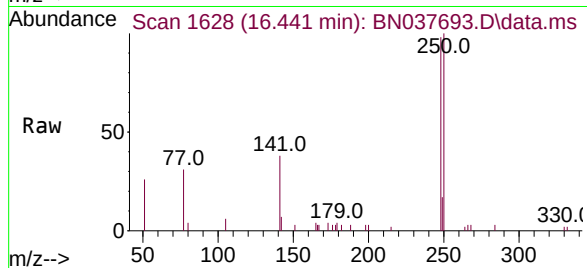




#21
4-Bromophenyl-phenylether
Concen: 0.385 ng
RT: 16.441 min Scan# 1628
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

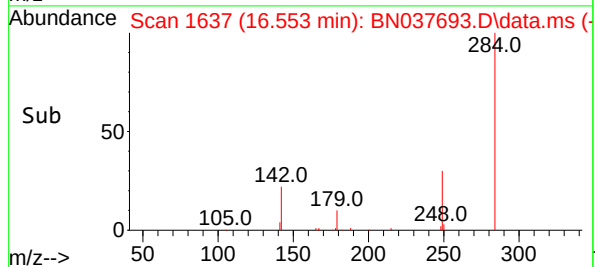
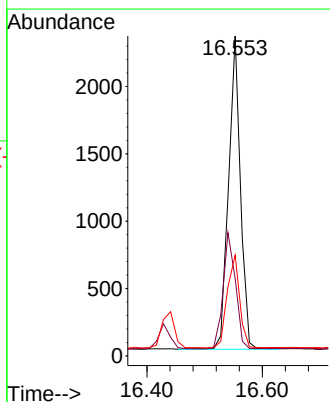
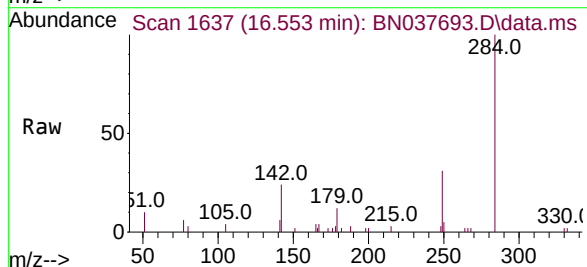
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

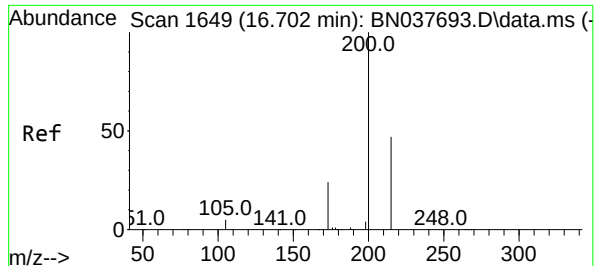
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.9	81.5	122.3
141	38.5	30.8	46.2



#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	Ratio	Lower	Upper
284	100		
142	38.6	30.9	46.3
249	31.0	24.8	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

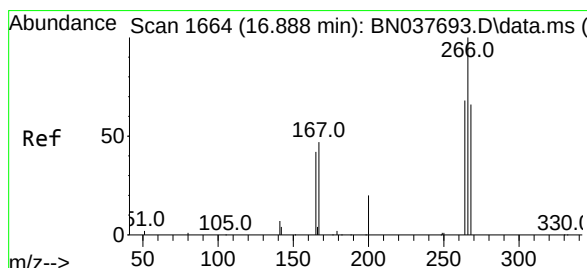
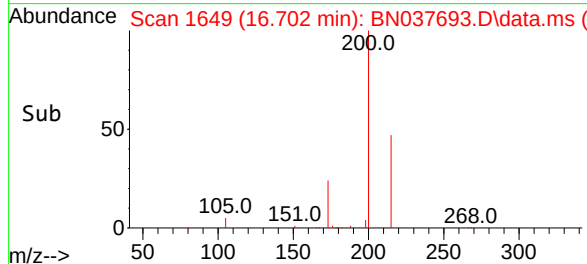
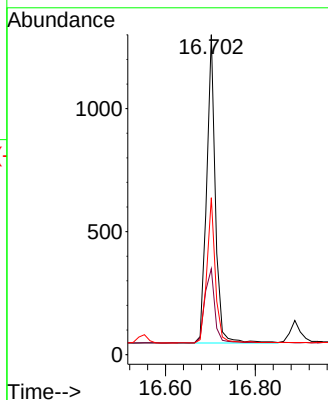
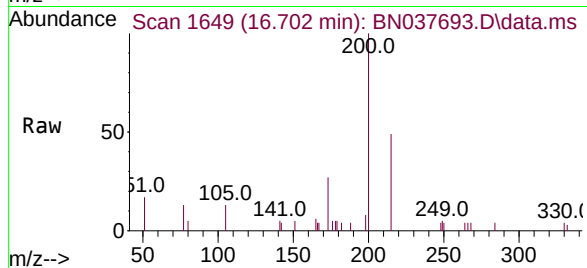
Tgt Ion:200 Resp: 1707

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

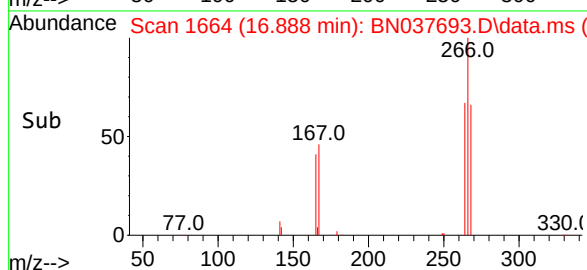
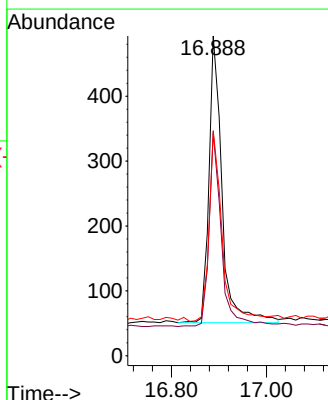
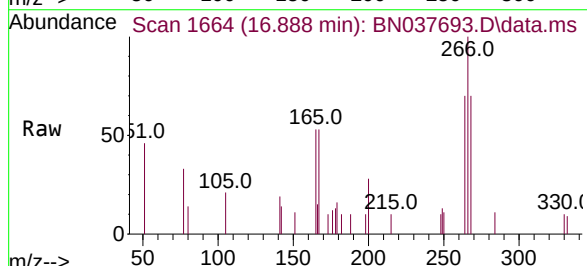
Tgt Ion:266 Resp: 839

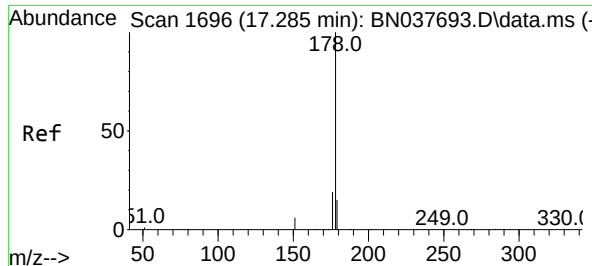
Ion Ratio Lower Upper

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

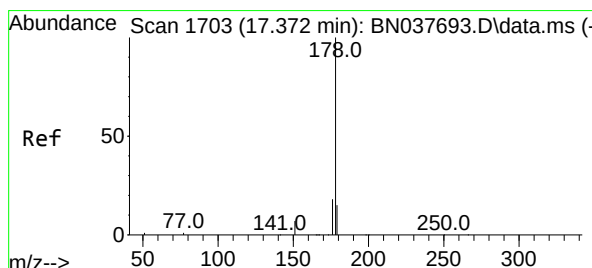
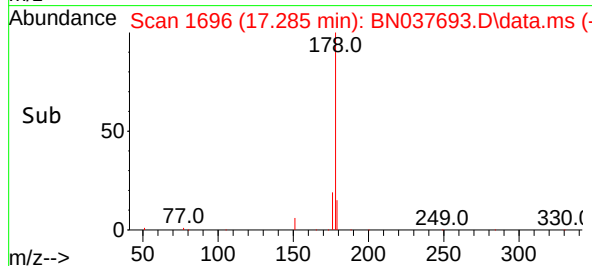
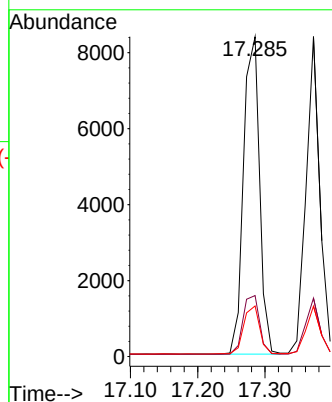
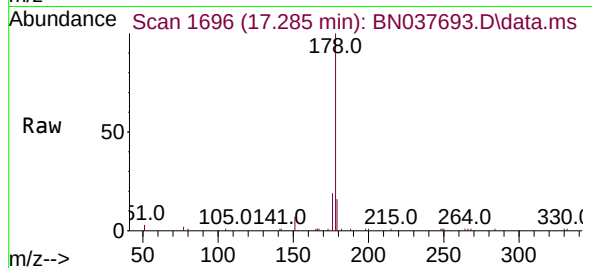
Tgt Ion:178 Resp: 13778

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

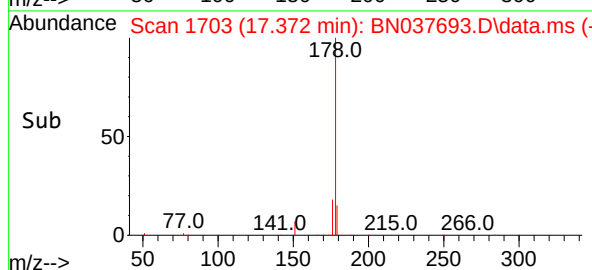
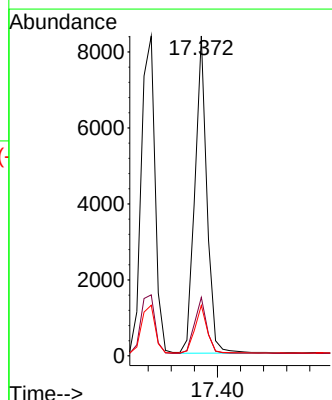
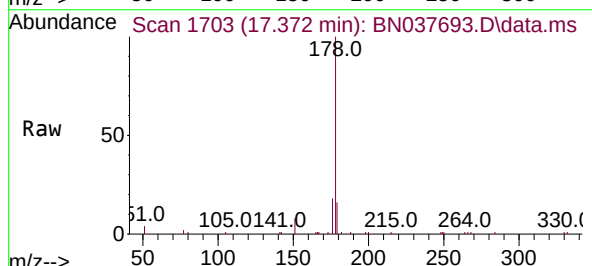
Tgt Ion:178 Resp: 12049

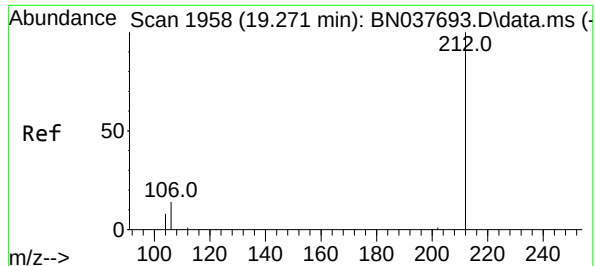
Ion Ratio Lower Upper

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

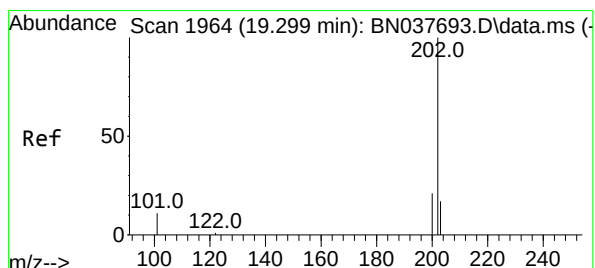
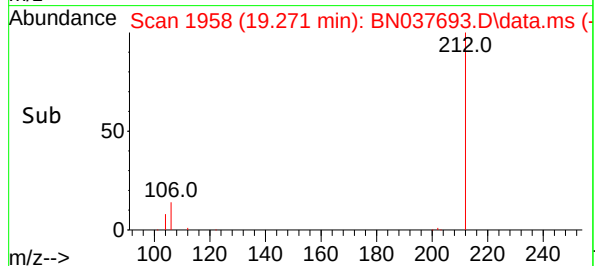
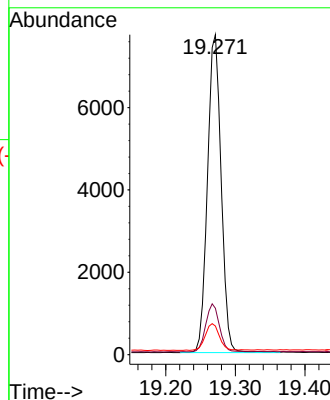
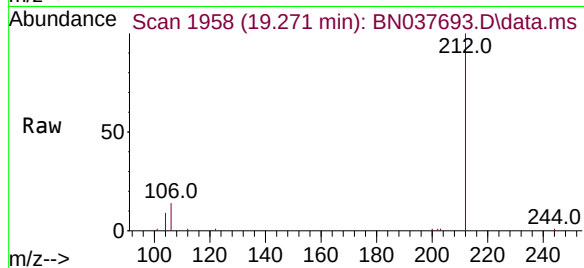
Tgt Ion:212 Resp: 10530

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

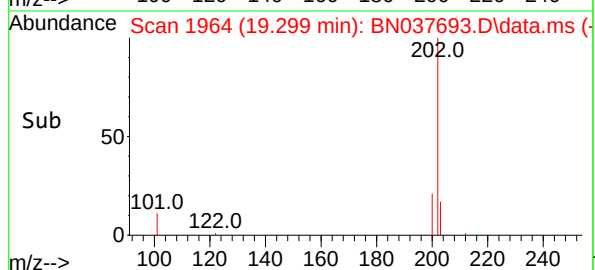
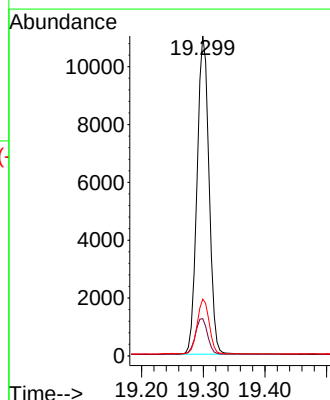
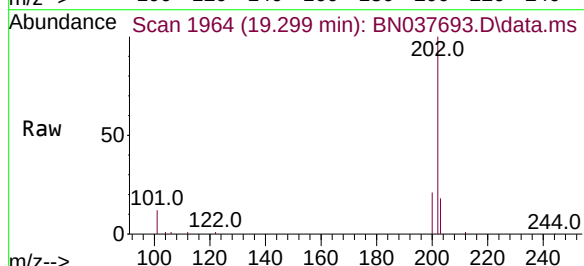
Tgt Ion:202 Resp: 14751

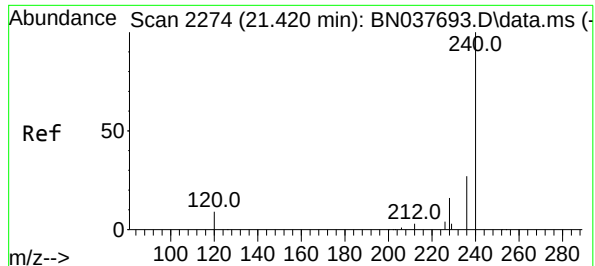
Ion Ratio Lower Upper

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

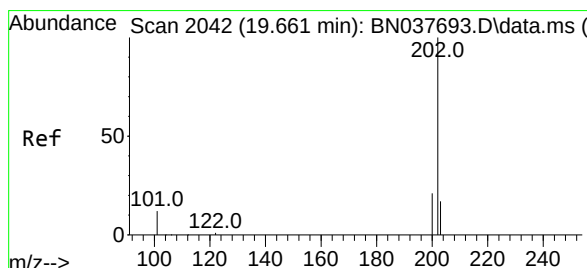
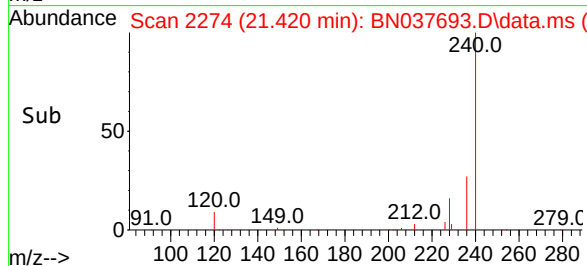
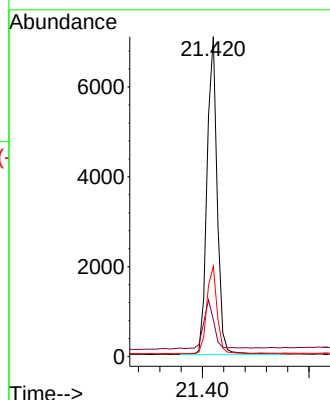
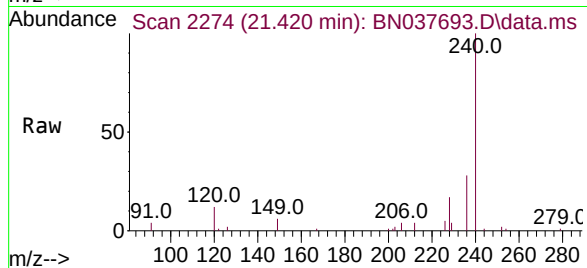
Tgt Ion:240 Resp: 9368

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

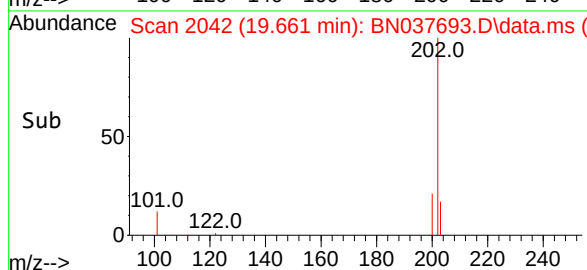
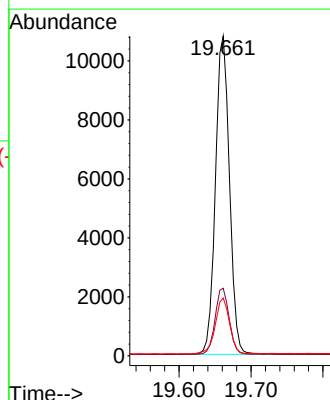
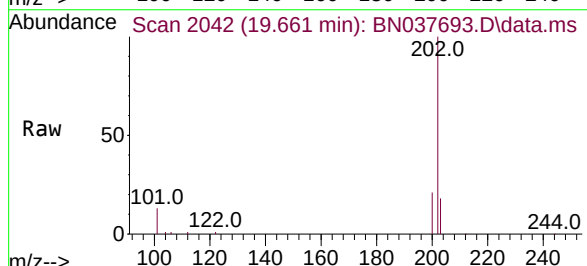
Tgt Ion:202 Resp: 14587

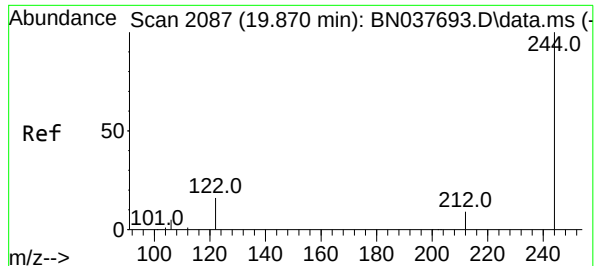
Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 17.9 14.3 21.5

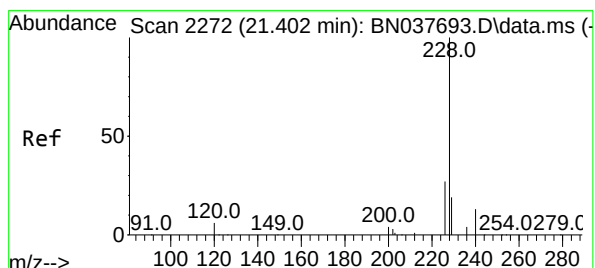
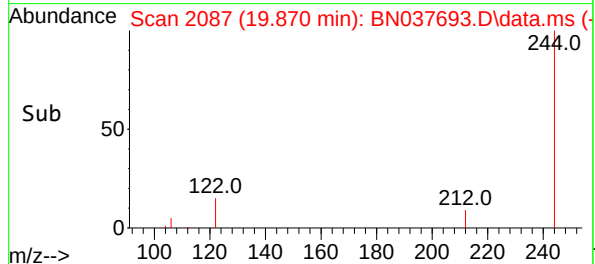
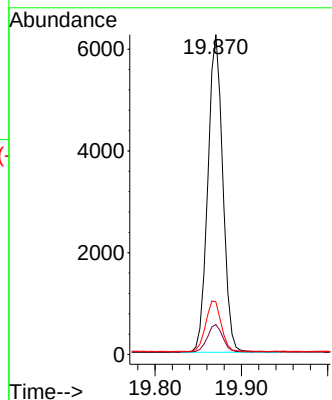
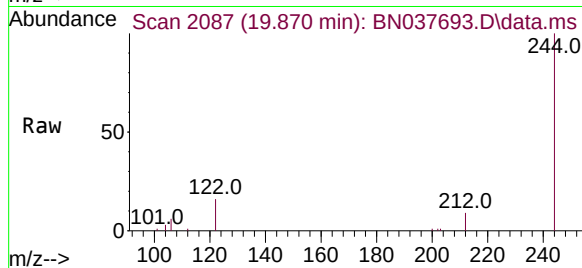




#31
Terphenyl-d14
Concen: 0.395 ng
RT: 19.870 min Scan# 2087
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

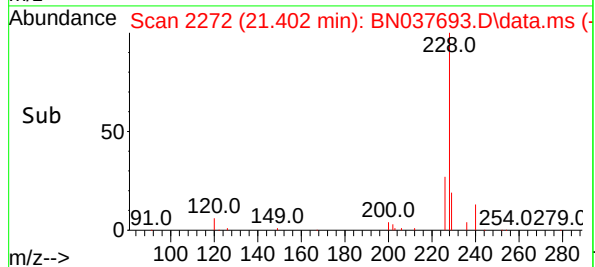
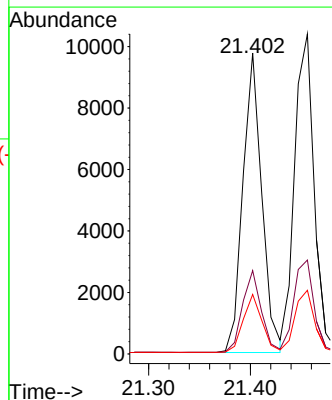
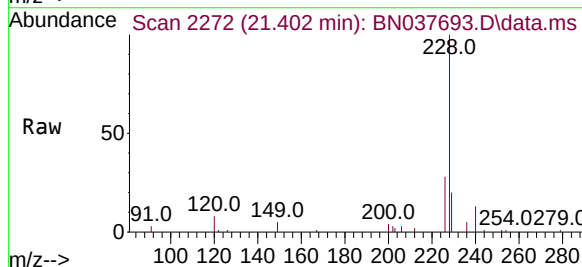
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

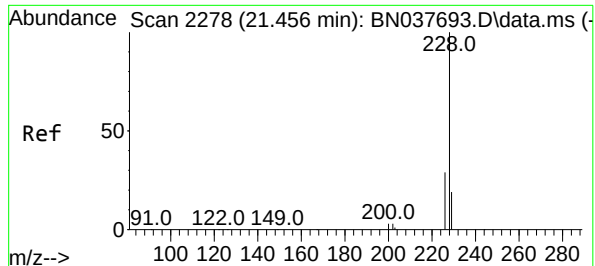
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.5	11.3
122	16.5	13.2	19.8



#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

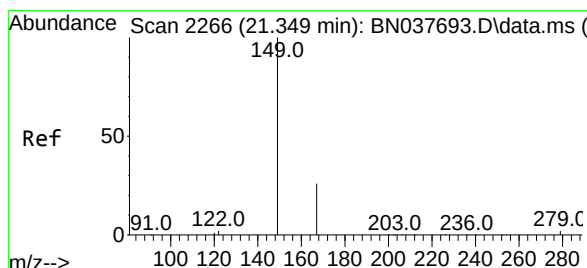
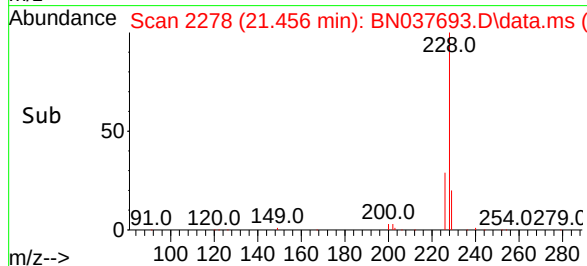
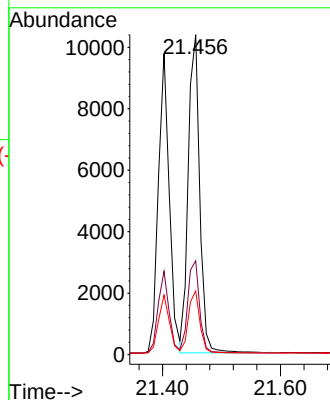
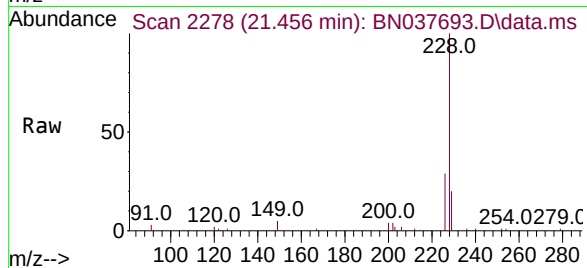
Tgt Ion:228 Resp: 14018

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

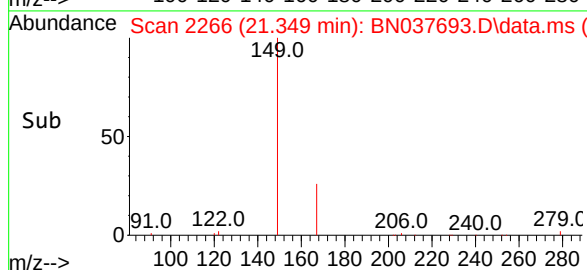
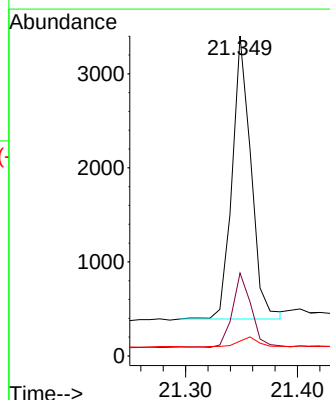
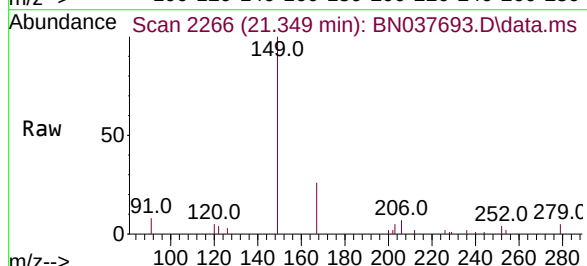
Tgt Ion:149 Resp: 3520

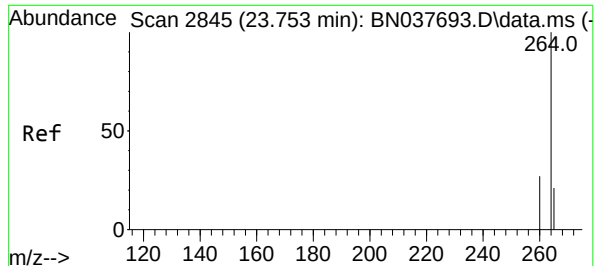
Ion Ratio Lower Upper

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

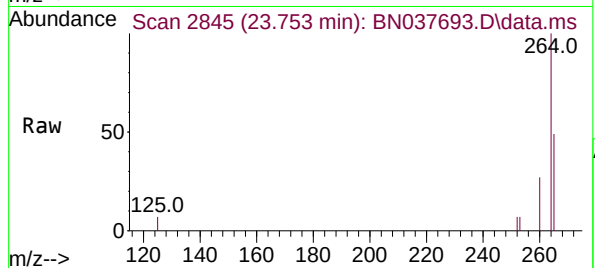
Acq: 11 Sep 2025 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



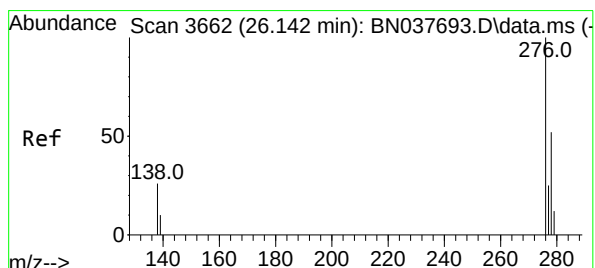
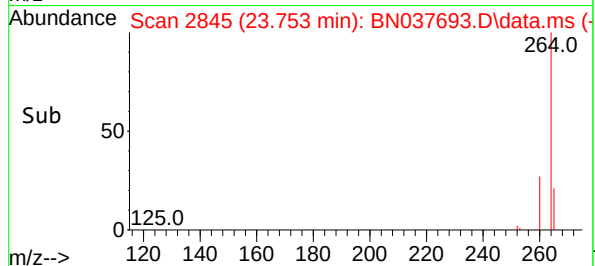
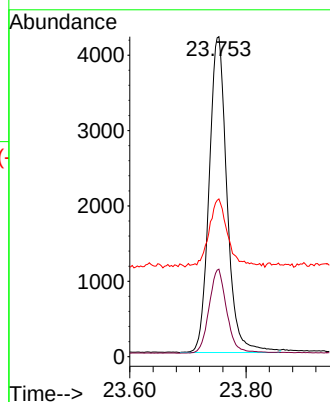
Tgt Ion:264 Resp: 8965

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

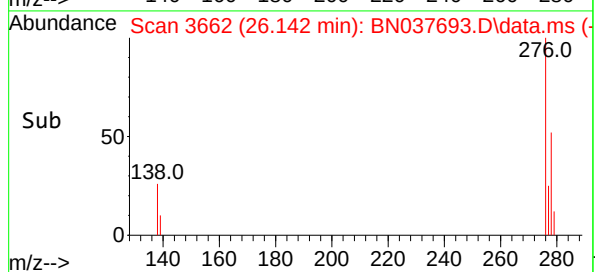
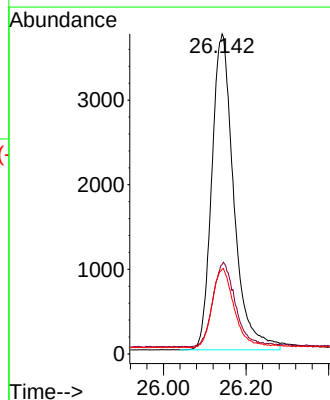
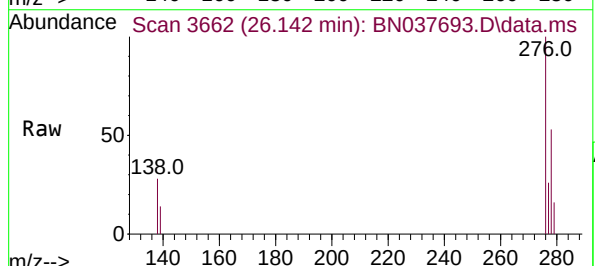
Tgt Ion:276 Resp: 13835

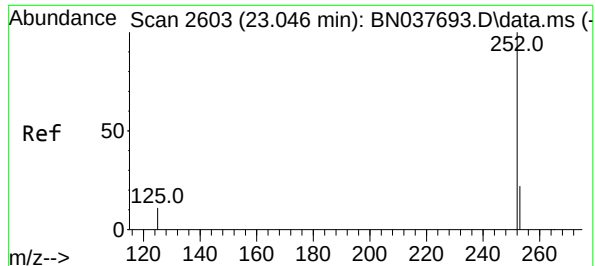
Ion Ratio Lower Upper

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

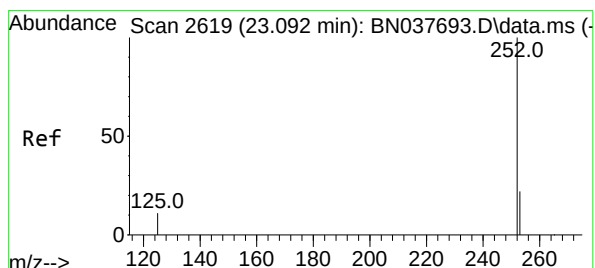
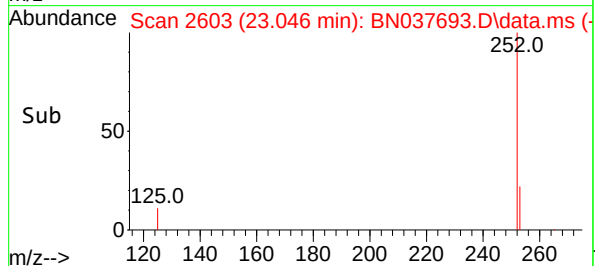
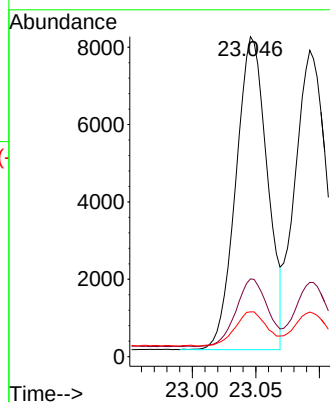
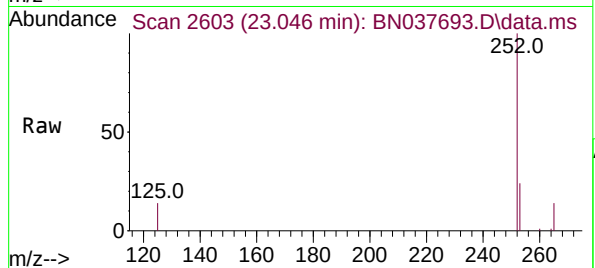
Tgt Ion:252 Resp: 13935

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

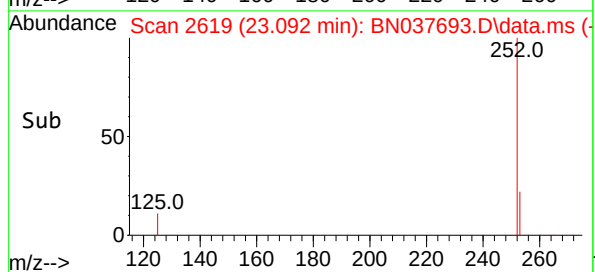
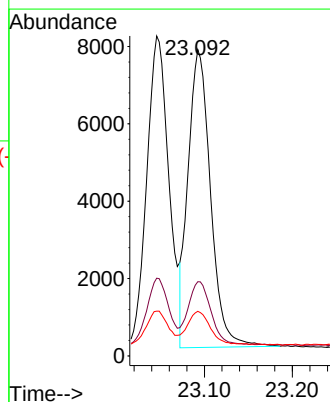
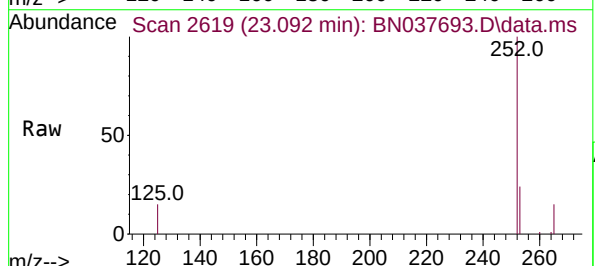
Tgt Ion:252 Resp: 13659

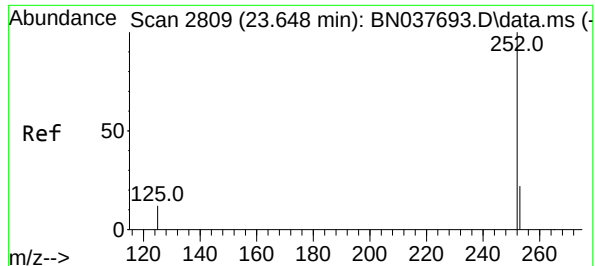
Ion Ratio Lower Upper

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

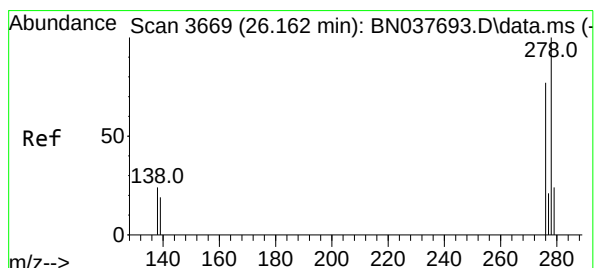
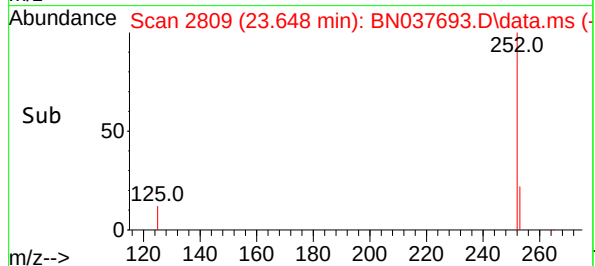
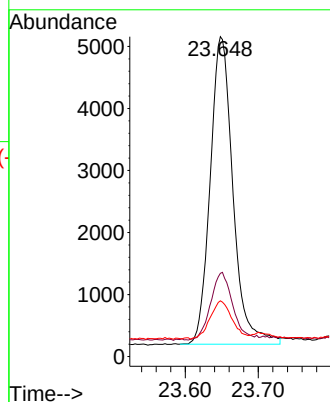
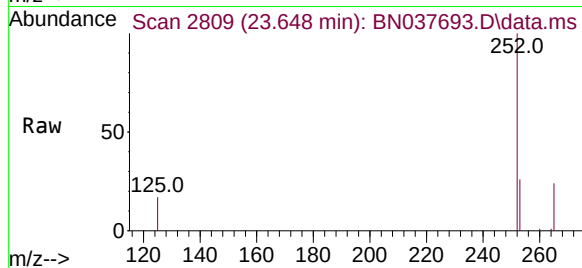
Tgt Ion:252 Resp: 10766

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

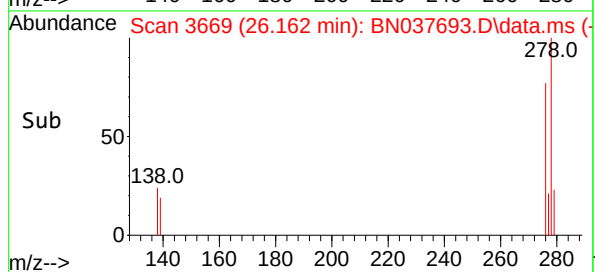
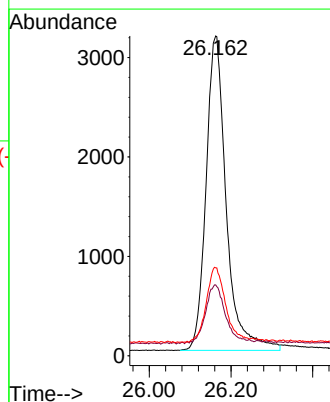
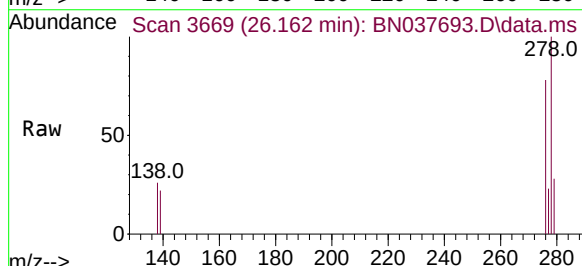
Tgt Ion:278 Resp: 10852

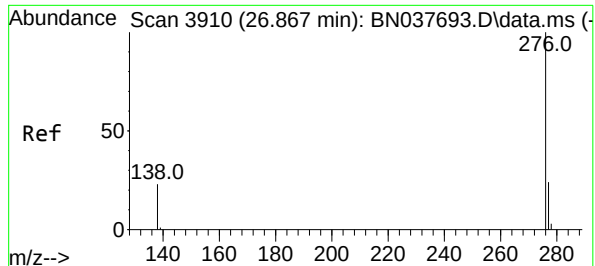
Ion Ratio Lower Upper

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

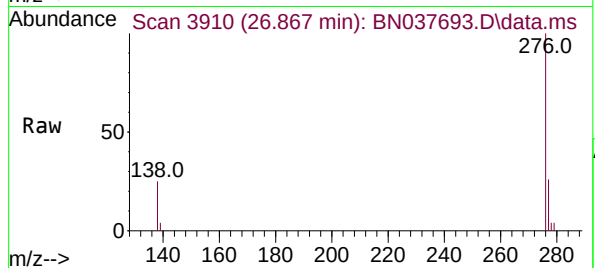
Acq: 11 Sep 2025 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



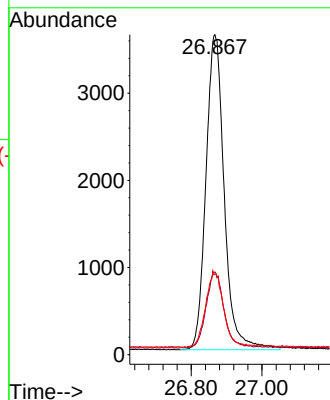
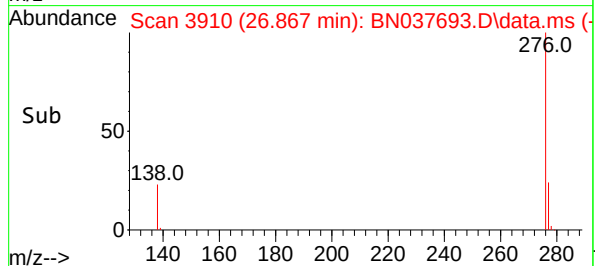
Tgt Ion:276 Resp: 13009

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

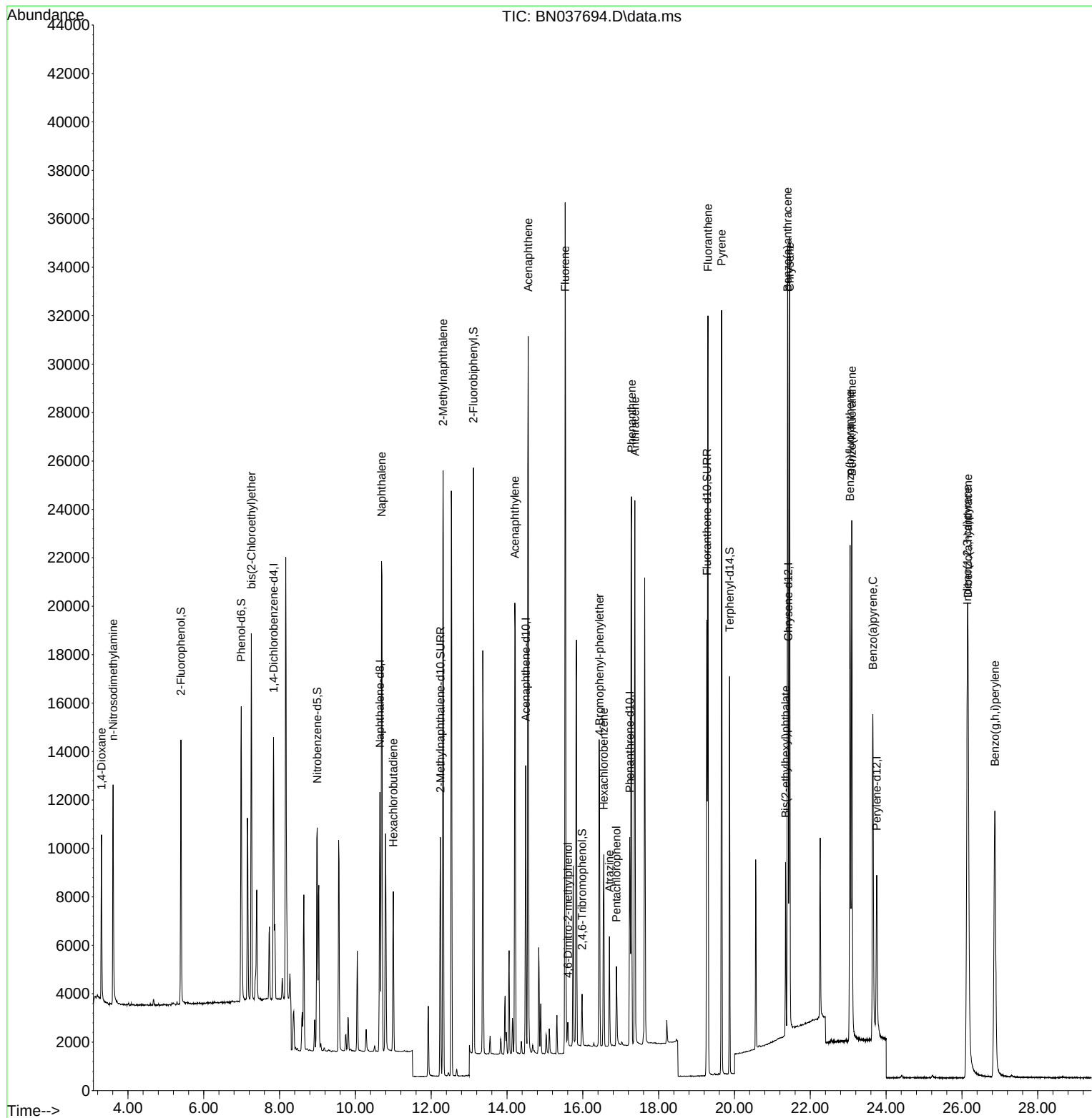
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	5166	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	13664	0.400	ng	0.00
13) Acenaphthene-d10	14.495	164	6297	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	11247	0.400	ng	0.00
29) Chrysene-d12	21.420	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						
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

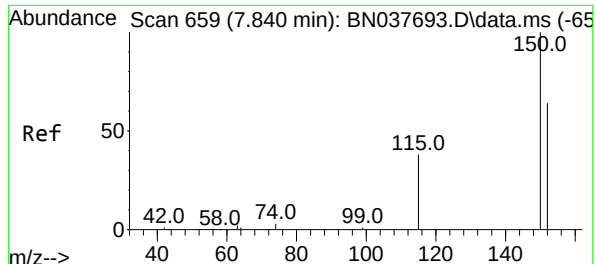
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

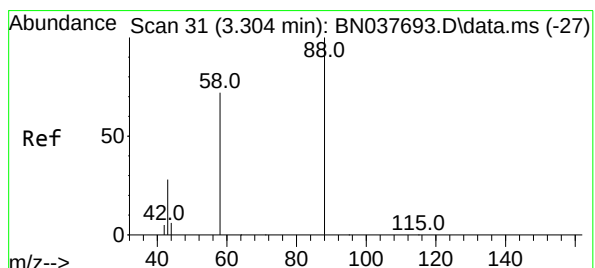
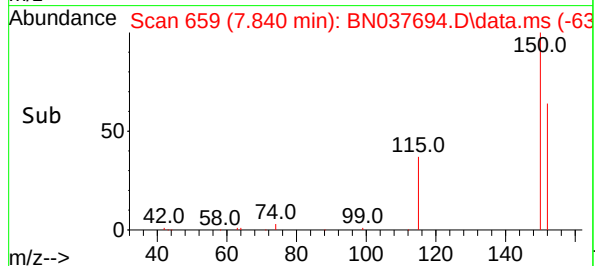
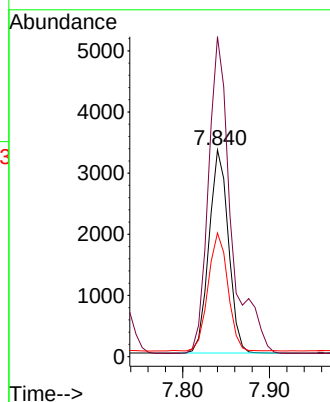
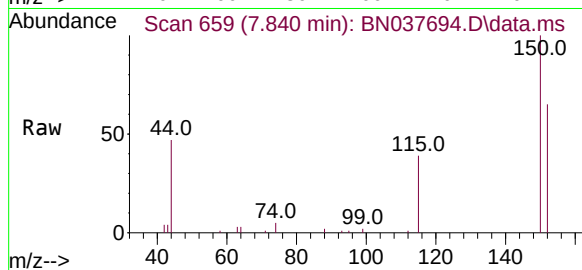
Tgt Ion:152 Resp: 5166

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

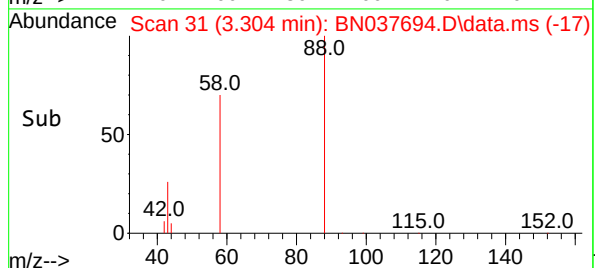
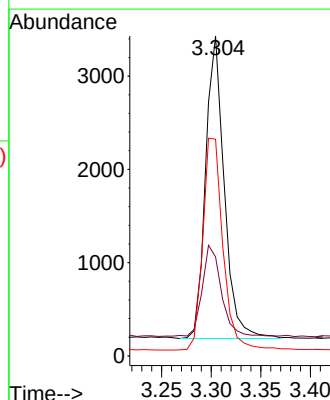
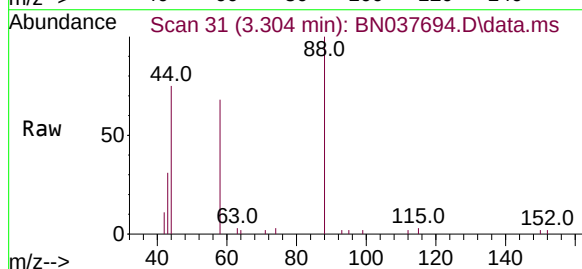
Tgt Ion: 88 Resp: 4244

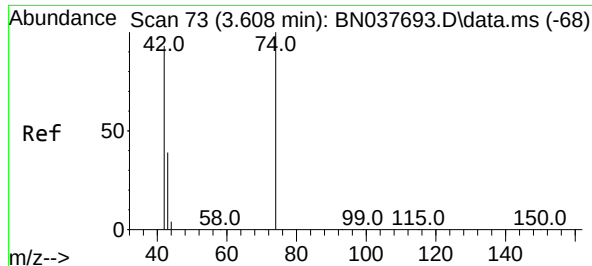
Ion Ratio Lower Upper

88 100

43 31.1 26.8 40.2

58 76.2 61.9 92.9

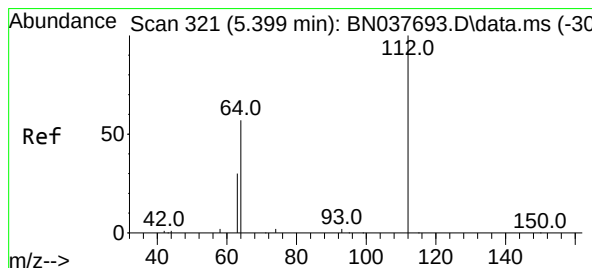
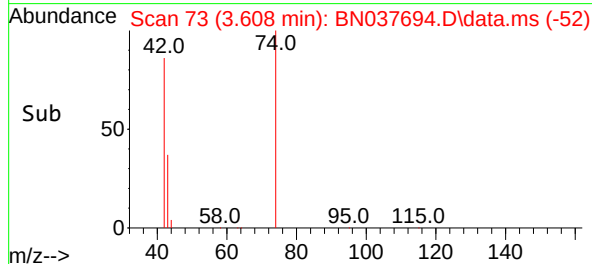
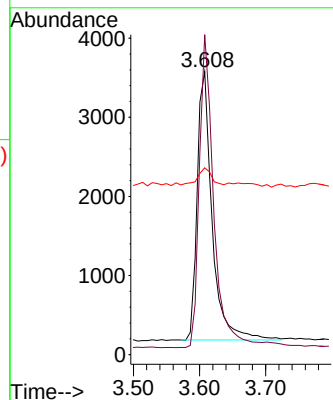
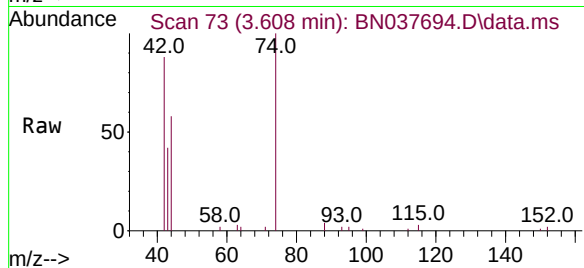




#3
n-Nitrosodimethylamine
Concen: 0.757 ng
RT: 3.608 min Scan# 73
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

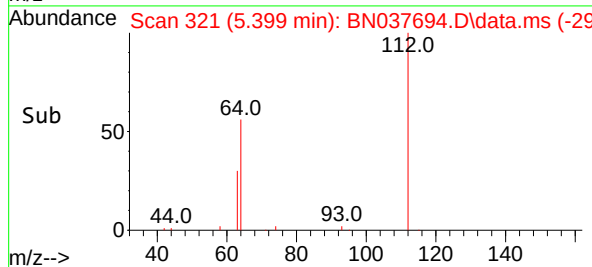
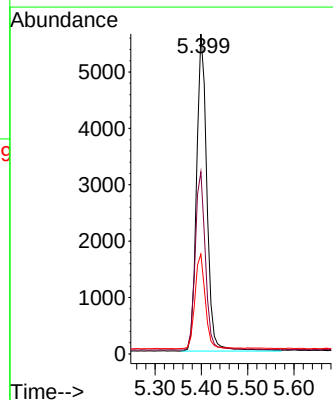
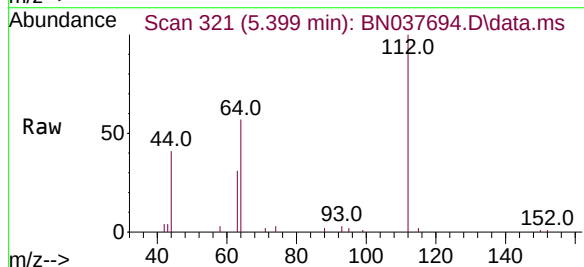
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

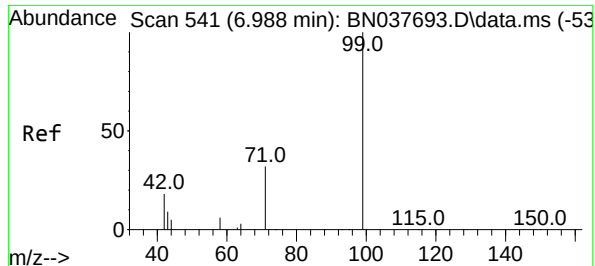
Tgt Ion: 42 Resp: 5321
Ion Ratio Lower Upper
42 100
74 114.4 86.0 129.0
44 6.9 8.4 12.6#



#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

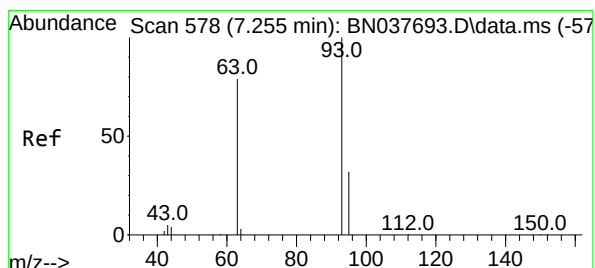
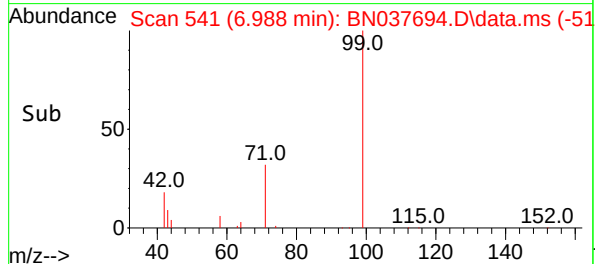
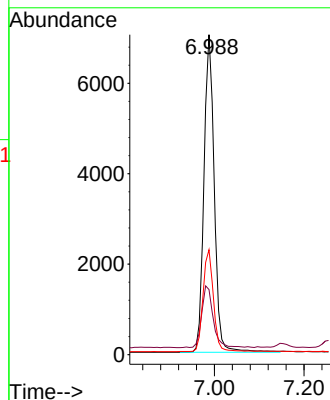
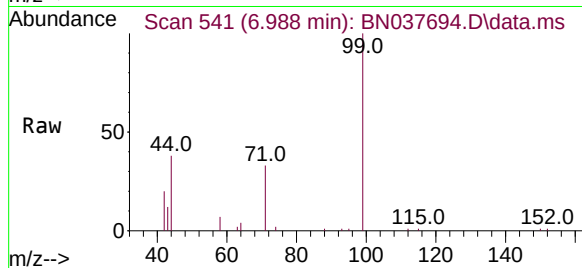




#5
Phenol-d6
Concen: 0.731 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

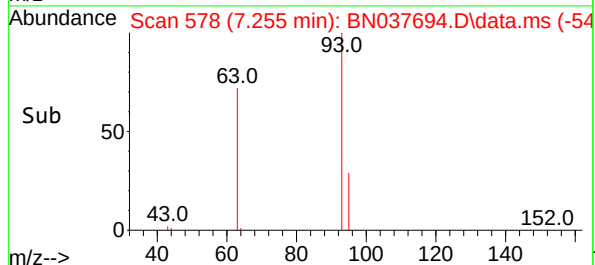
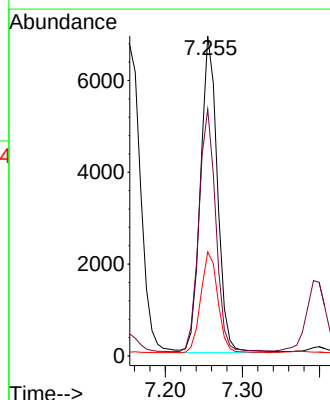
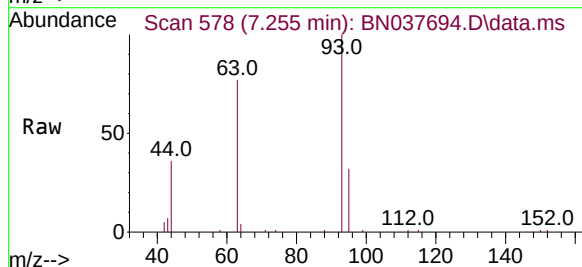
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

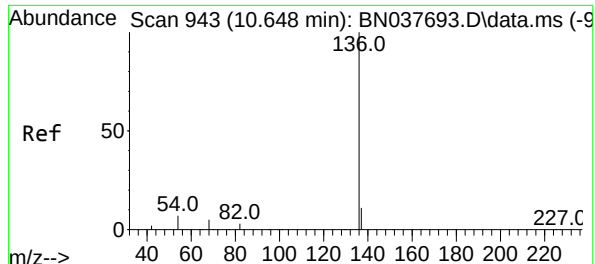
Tgt Ion: 99 Resp: 11241
Ion Ratio Lower Upper
99 100
42 21.6 16.6 24.8
71 32.6 26.7 40.1



#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

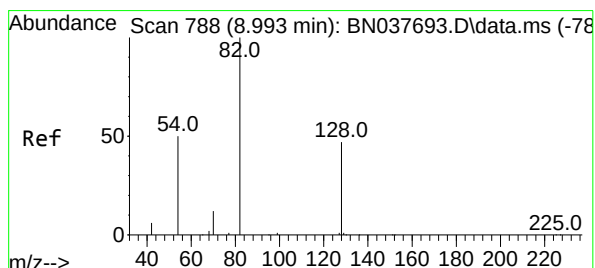
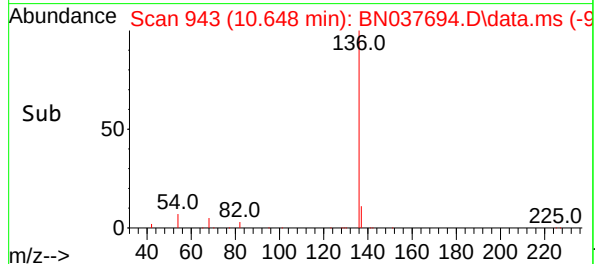
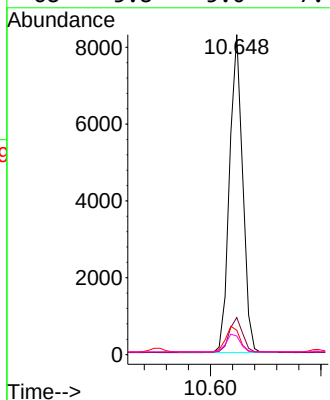
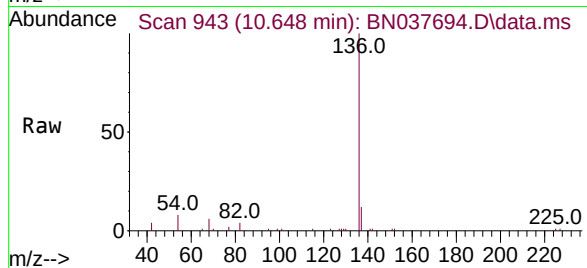




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

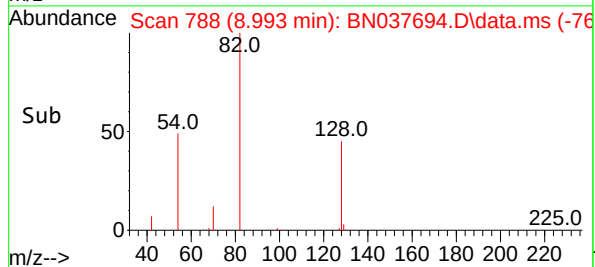
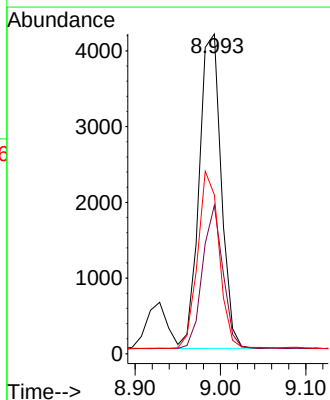
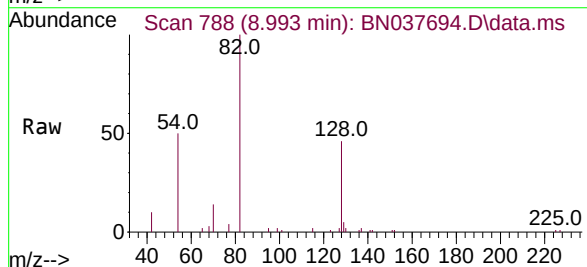
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

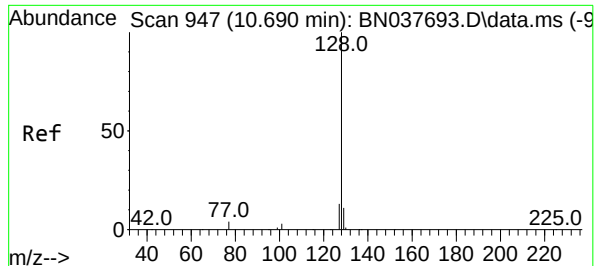
Tgt Ion:	136	Resp:	13664
Ion Ratio	Lower	Upper	
136	100		
137	11.6	9.1	13.7
54	7.6	6.3	9.5
68	5.8	5.0	7.4



#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

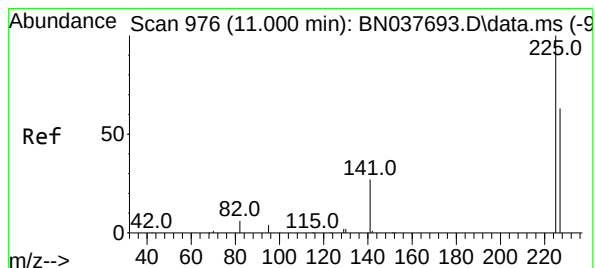
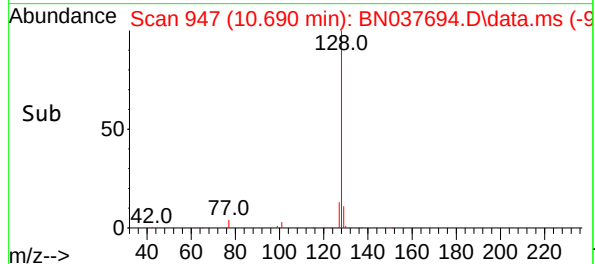
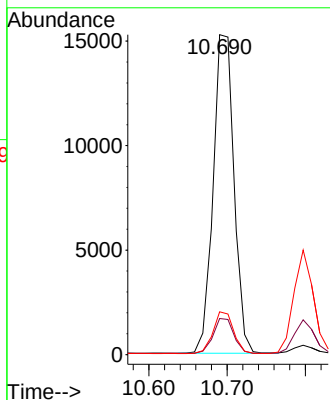
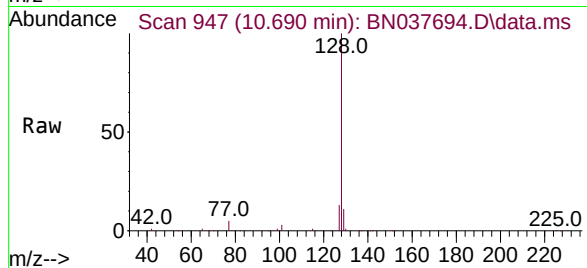




#9
Naphthalene
Concen: 0.758 ng
RT: 10.690 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

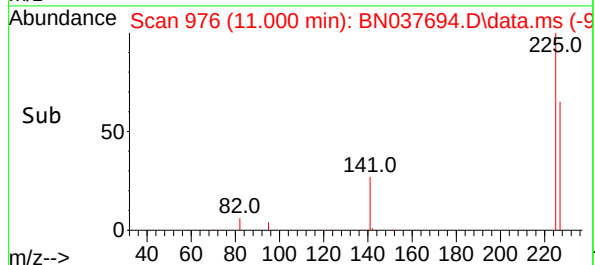
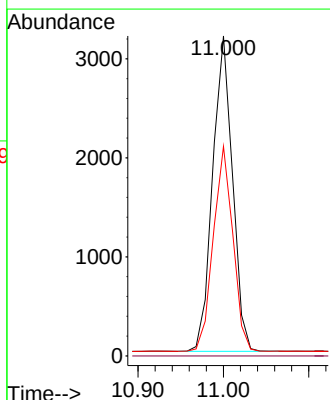
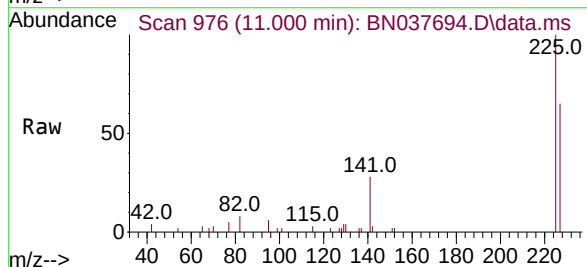
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

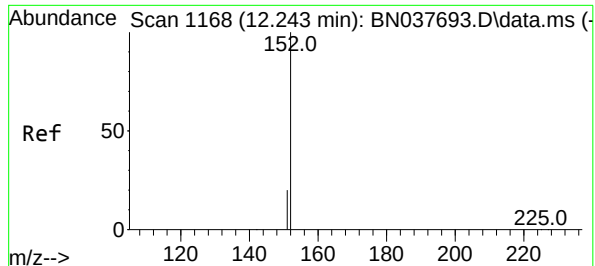
Tgt Ion:128 Resp: 28311
Ion Ratio Lower Upper
128 100
129 11.3 9.1 13.7
127 13.4 10.9 16.3



#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

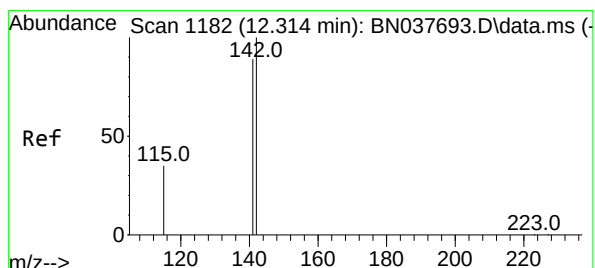
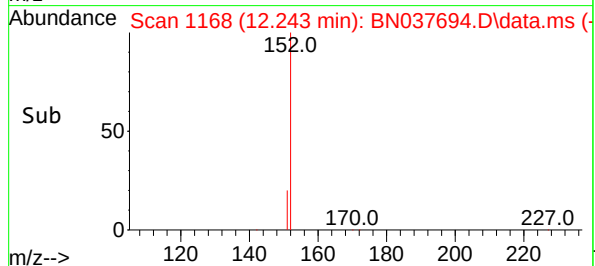
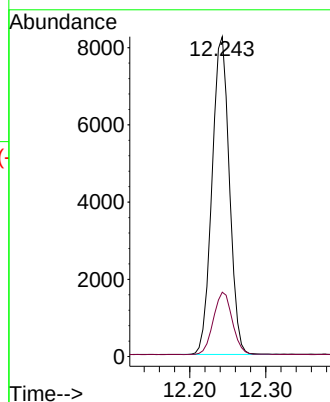
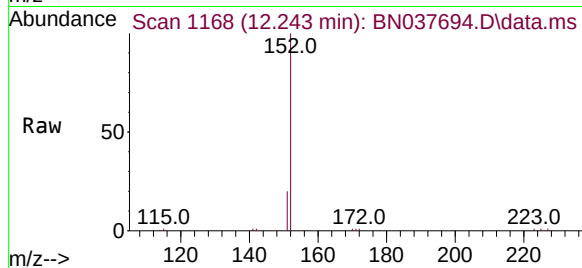




#11
2-Methylnaphthalene-d10
Concen: 0.721 ng
RT: 12.243 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

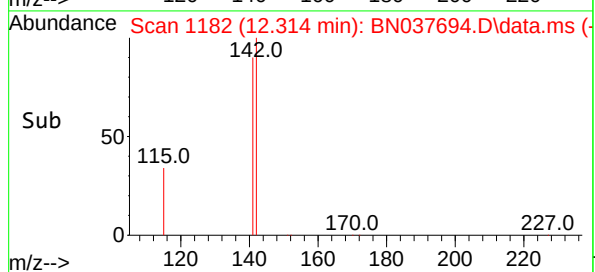
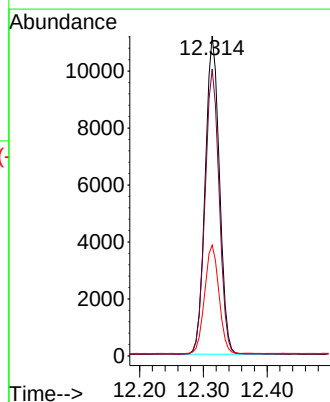
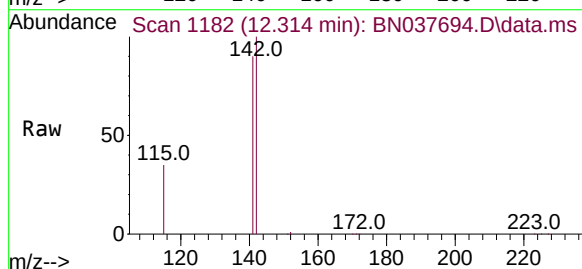
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

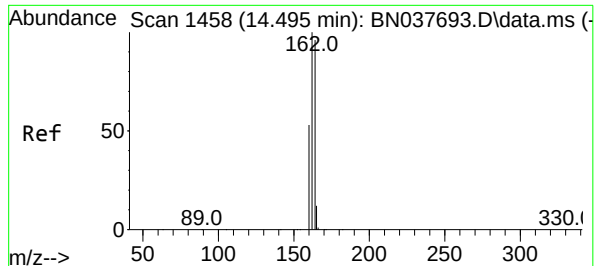
Tgt Ion:152 Resp: 13053
Ion Ratio Lower Upper
152 100
151 21.5 17.0 25.6



#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 :

SSTDIC0.8

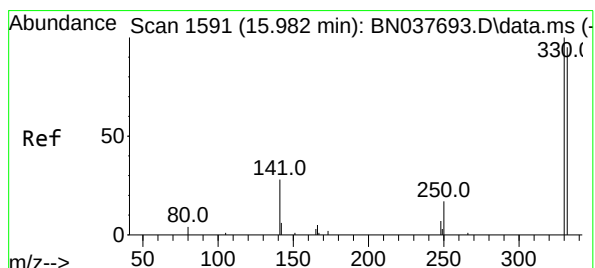
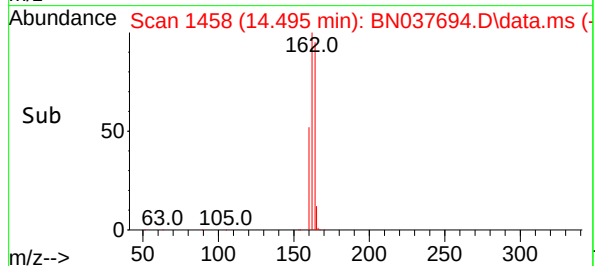
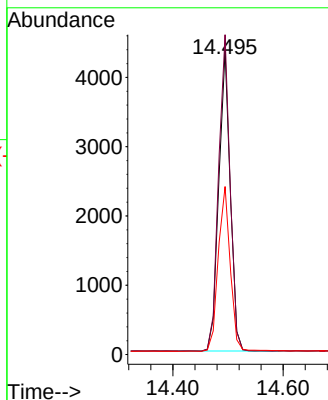
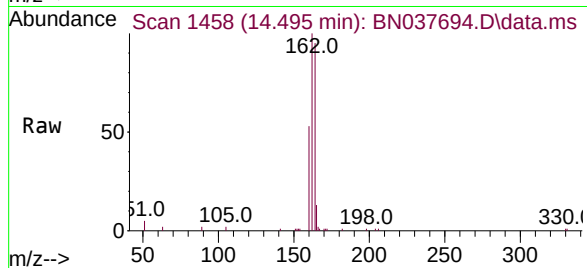
Tgt Ion:164 Resp: 6297

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

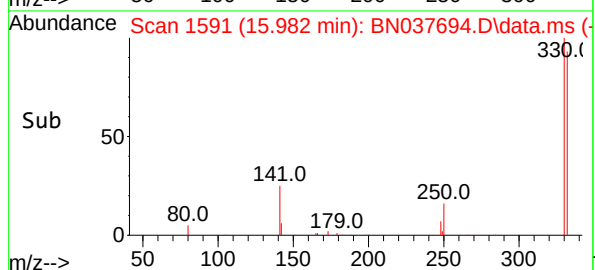
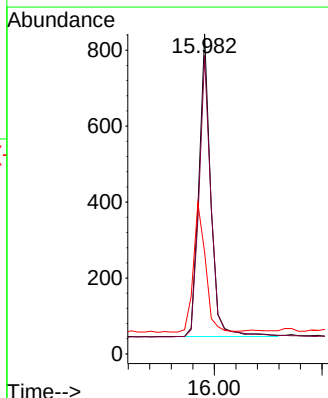
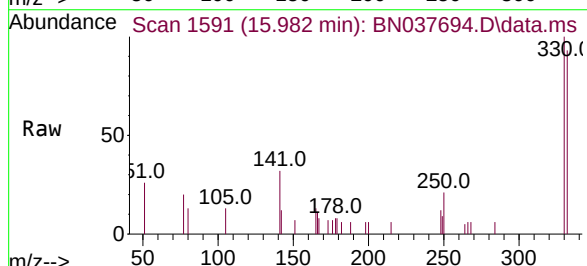
Tgt Ion:330 Resp: 1211

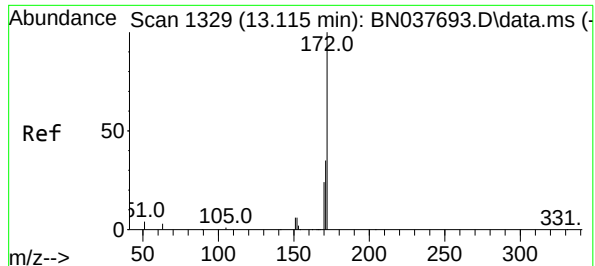
Ion Ratio Lower Upper

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

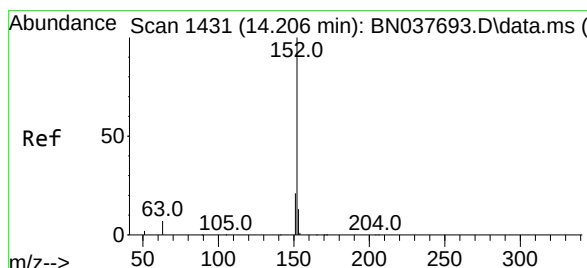
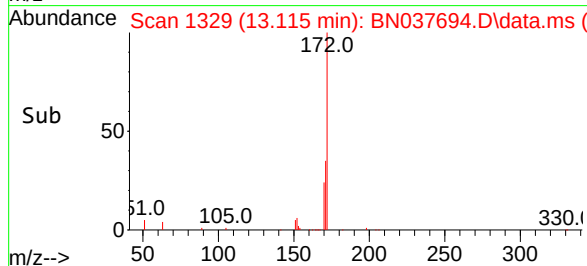
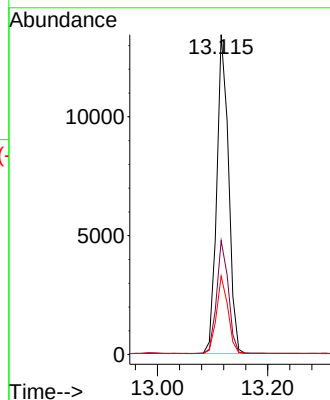
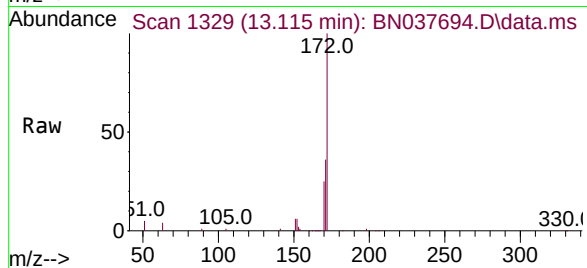
Tgt Ion:172 Resp: 19971

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

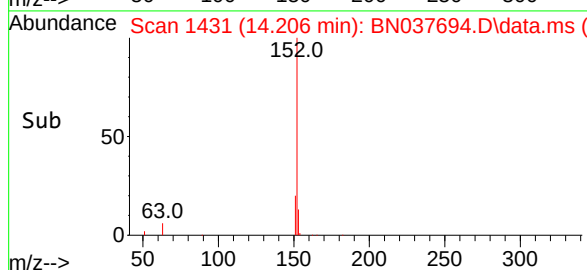
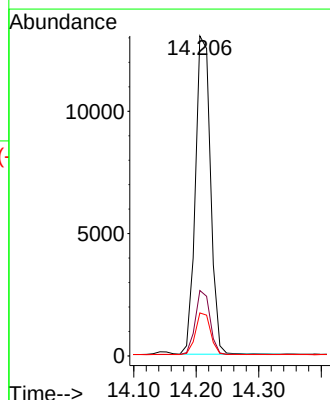
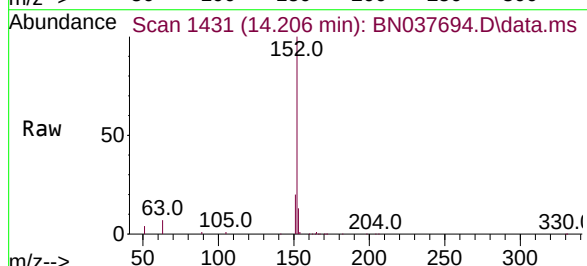
Tgt Ion:152 Resp: 21746

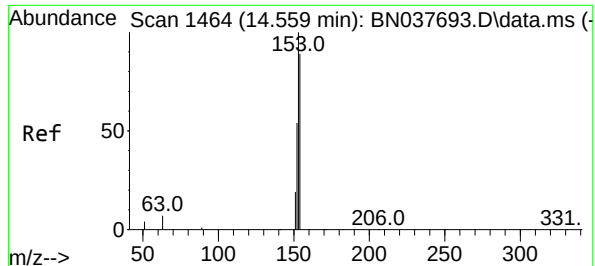
Ion Ratio Lower Upper

152 100

151 19.8 16.2 24.2

153 13.1 10.4 15.6

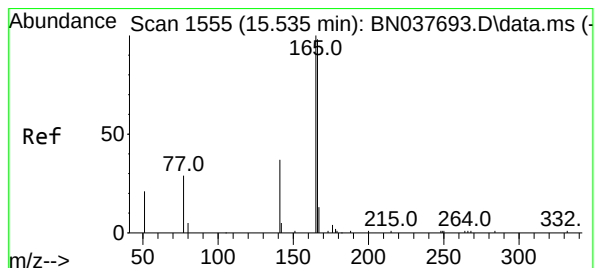
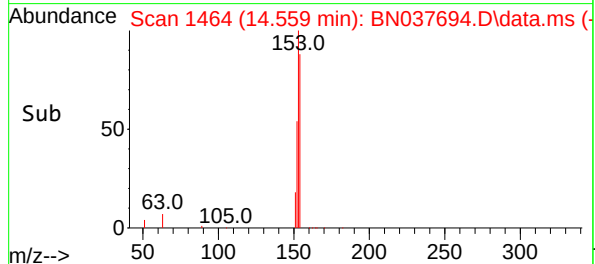
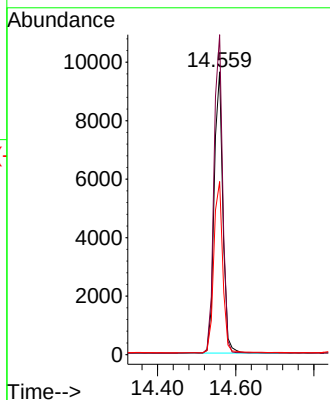
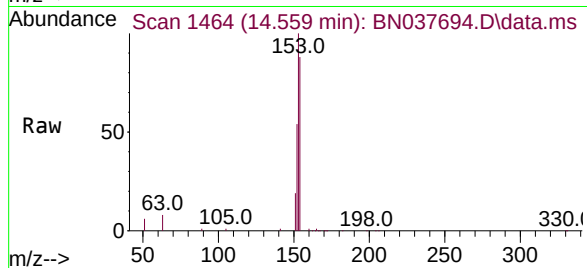




#17
Acenaphthene
Concen: 0.765 ng
RT: 14.559 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

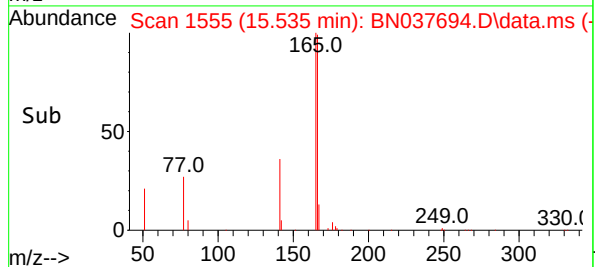
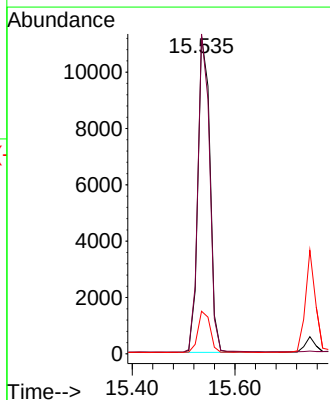
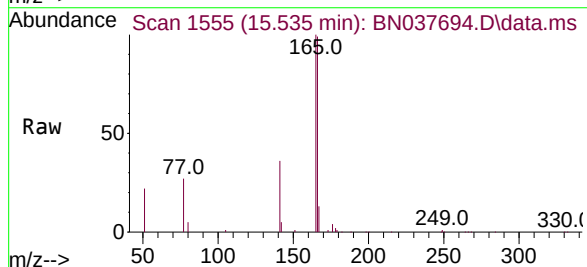
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

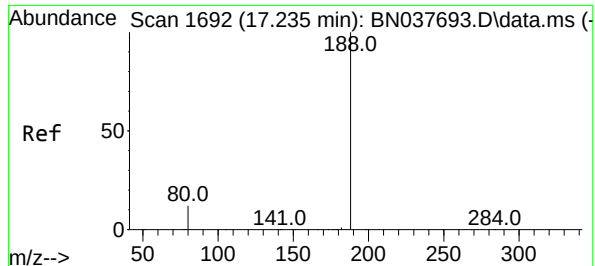
Tgt Ion	154	Resp:	14943
Ion Ratio	Lower	Upper	
154	100		
153	112.2	89.8	134.8
152	62.5	50.2	75.2



#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

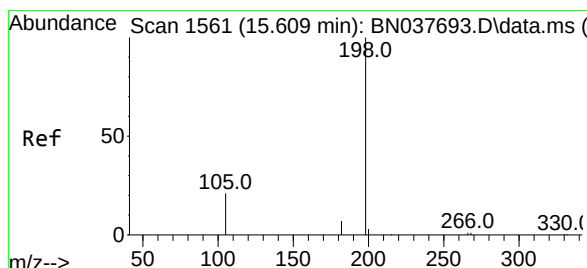
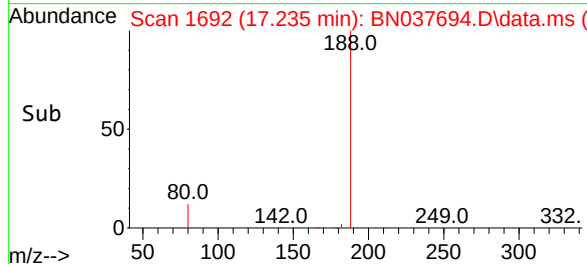
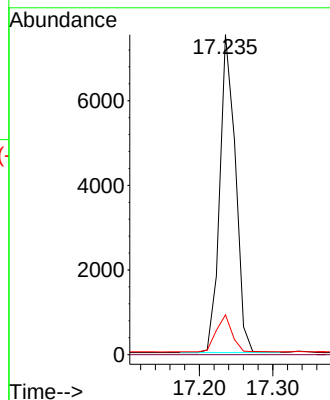
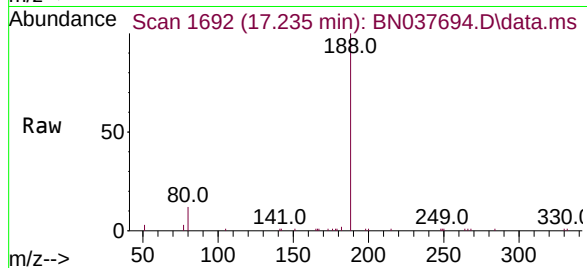
Tgt Ion:188 Resp: 11247

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

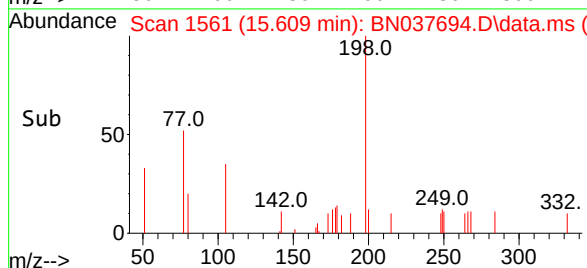
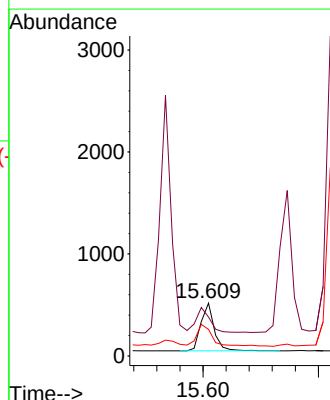
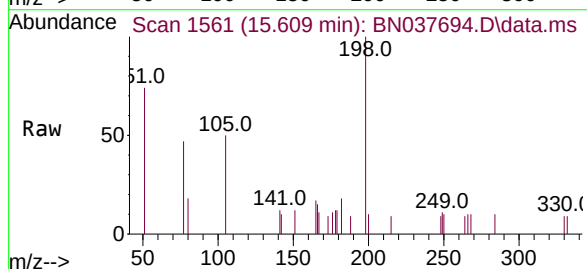
Tgt Ion:198 Resp: 751

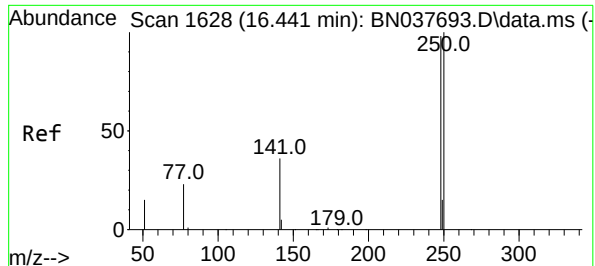
Ion Ratio Lower Upper

198 100

51 73.7 95.1 142.7#

105 50.3 53.8 80.6#

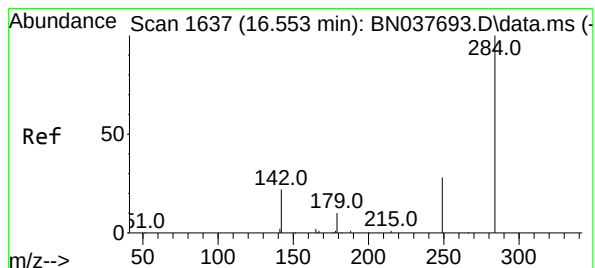
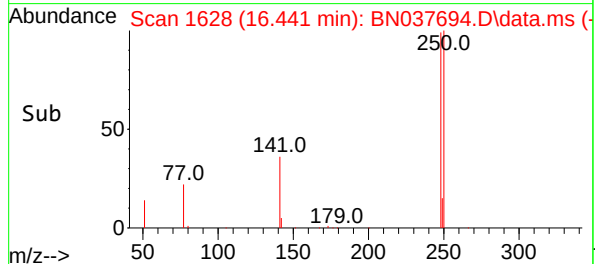
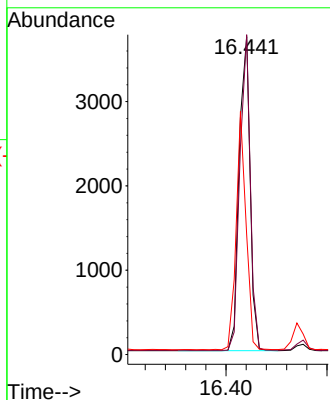
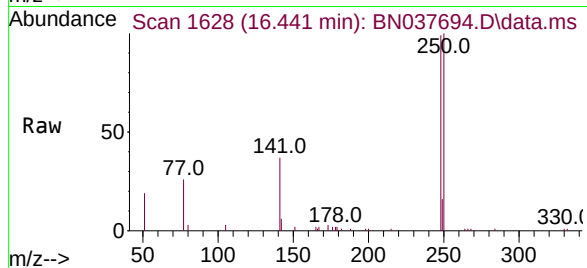




#21
4-Bromophenyl-phenylether
Concen: 0.760 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

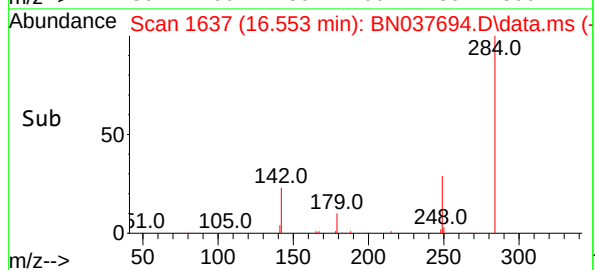
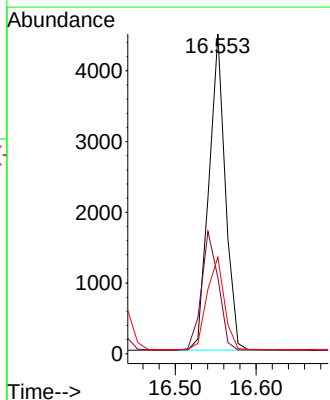
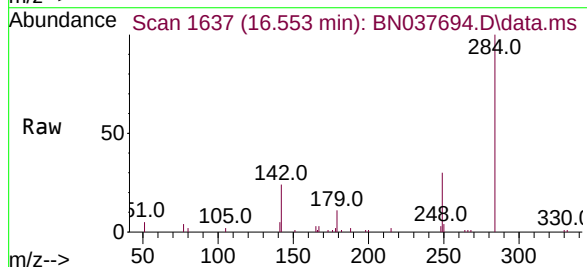
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

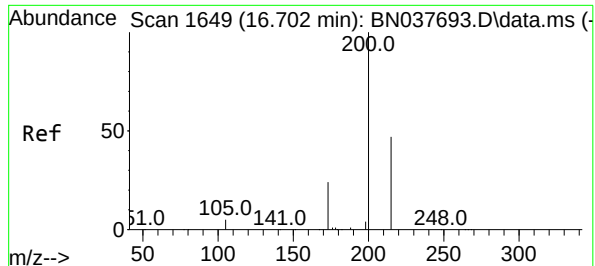
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.6	81.5	122.3
141	37.7	30.8	46.2



#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

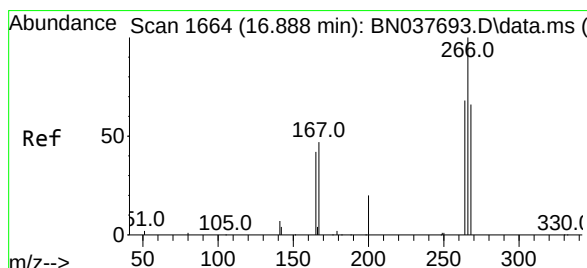
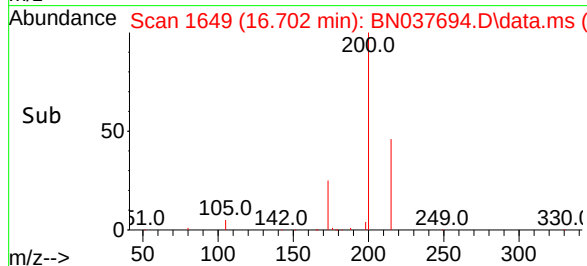
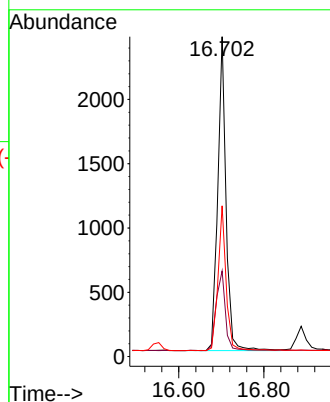
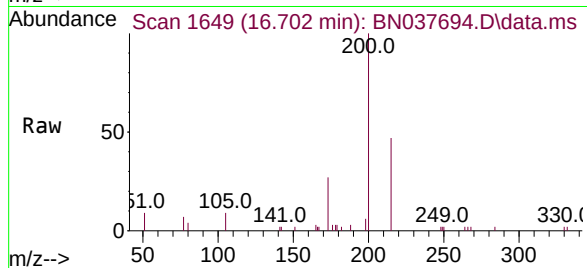
Tgt Ion:200 Resp: 3288

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

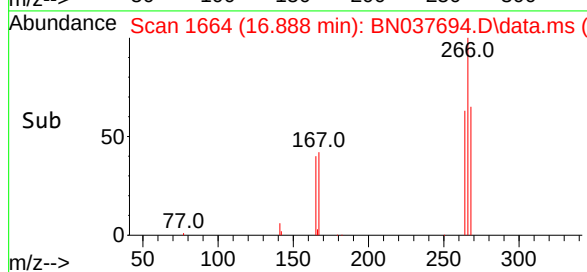
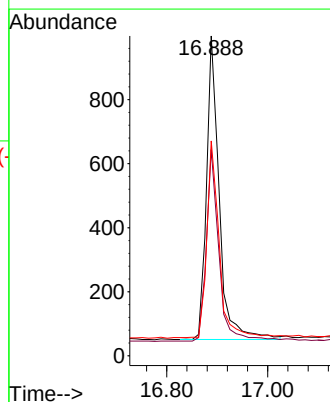
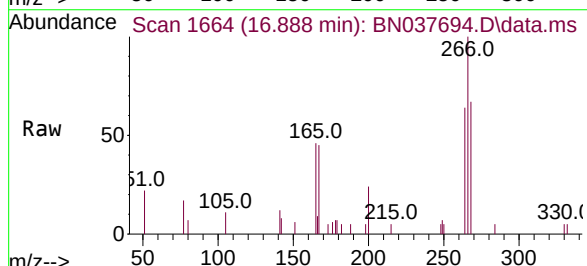
Tgt Ion:266 Resp: 1652

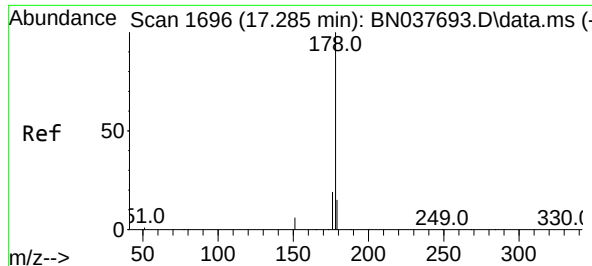
Ion Ratio Lower Upper

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 :

SSTDIC0.8

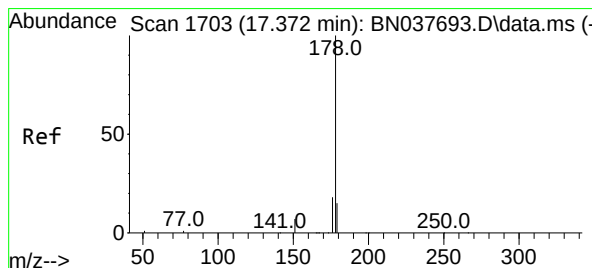
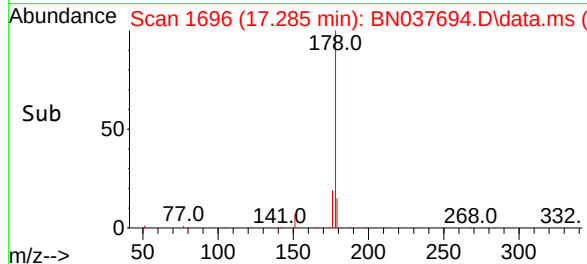
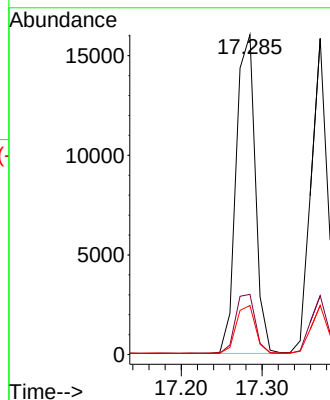
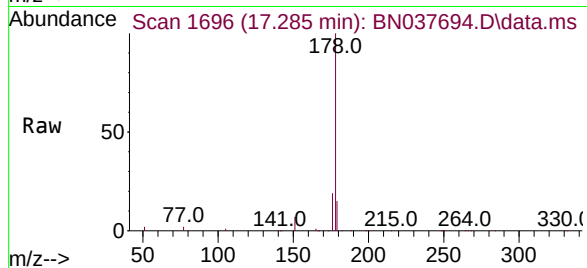
Tgt Ion:178 Resp: 26380

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

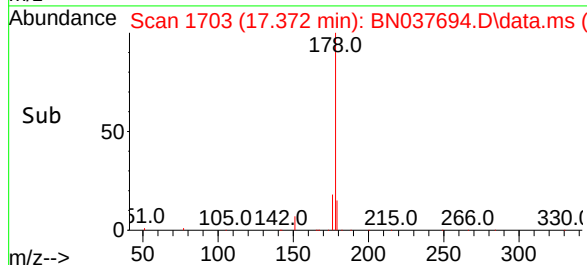
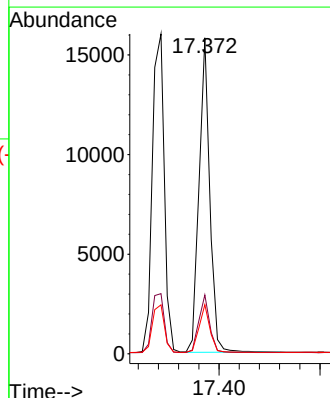
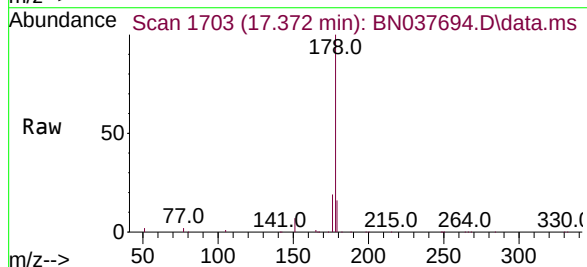
Tgt Ion:178 Resp: 23177

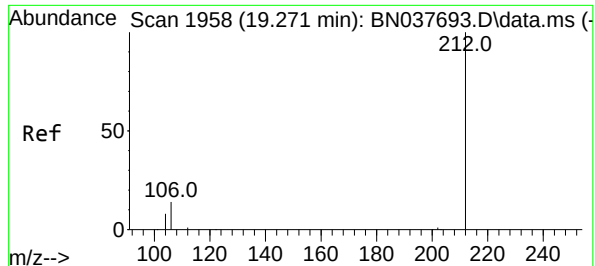
Ion Ratio Lower Upper

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

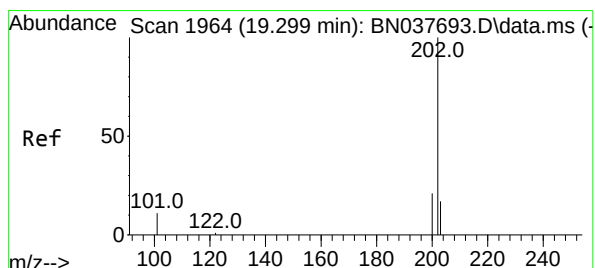
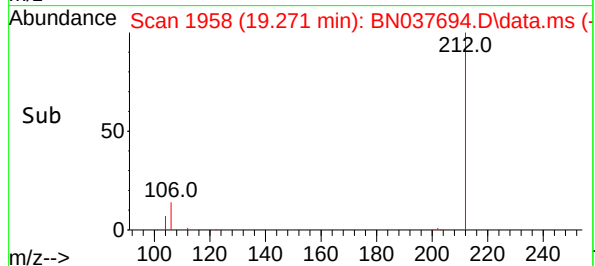
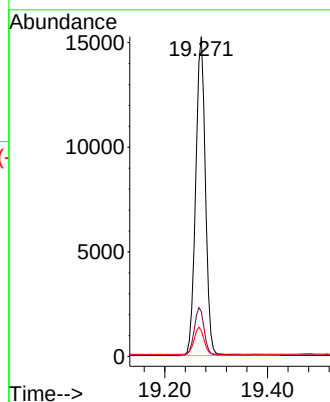
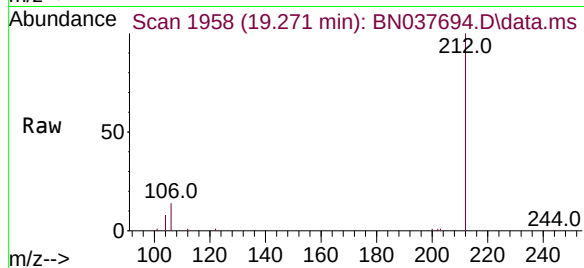
Tgt Ion:212 Resp: 19870

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

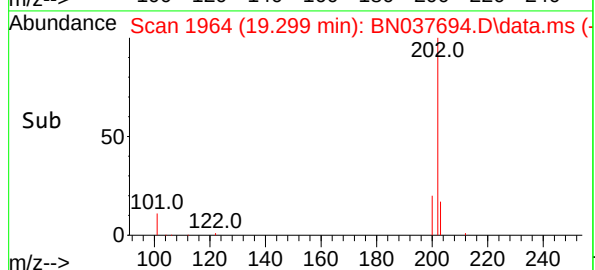
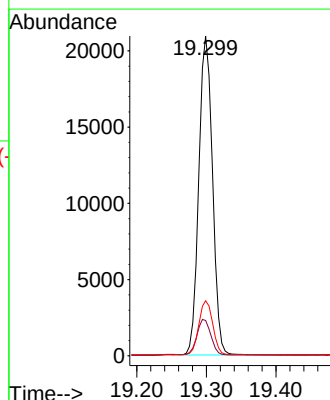
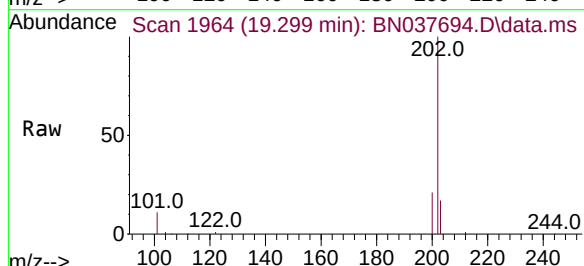
Tgt Ion:202 Resp: 28541

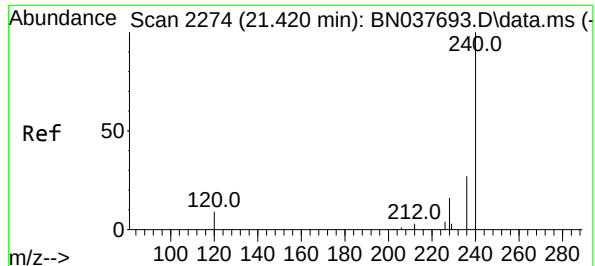
Ion Ratio Lower Upper

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 :

SSTDIC0.8

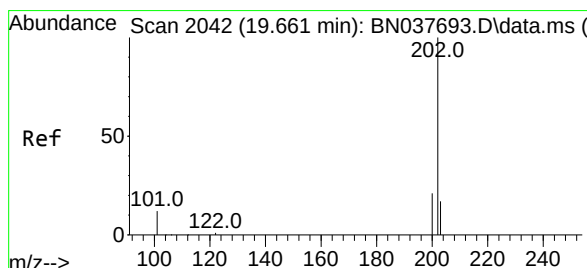
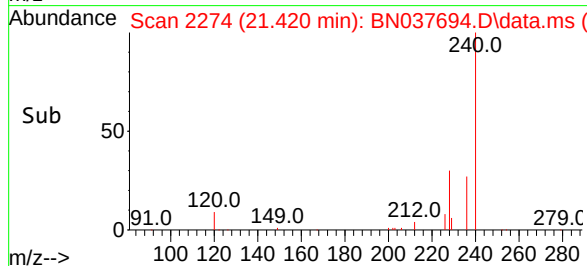
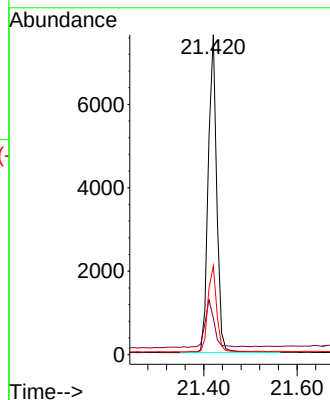
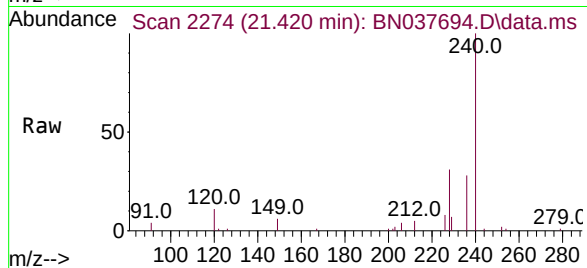
Tgt Ion:240 Resp: 9536

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

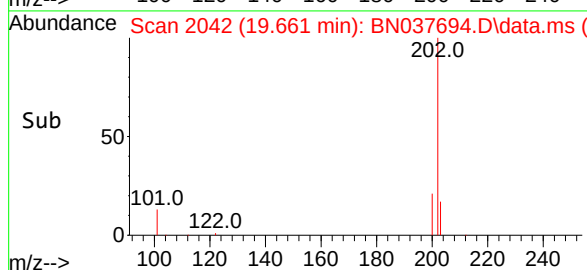
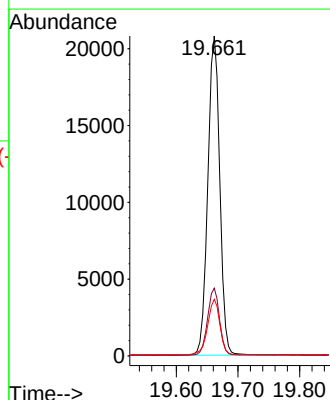
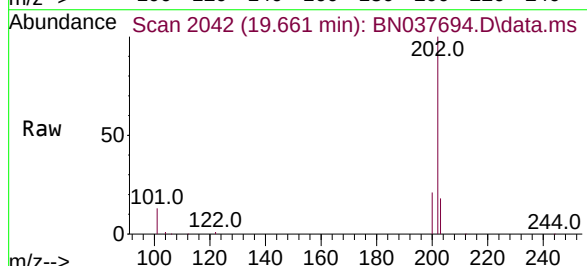
Tgt Ion:202 Resp: 28089

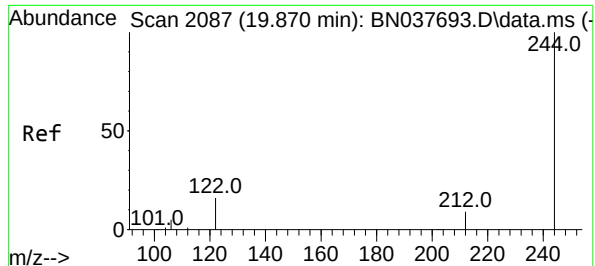
Ion Ratio Lower Upper

202 100

200 20.9 16.8 25.2

203 17.8 14.3 21.5

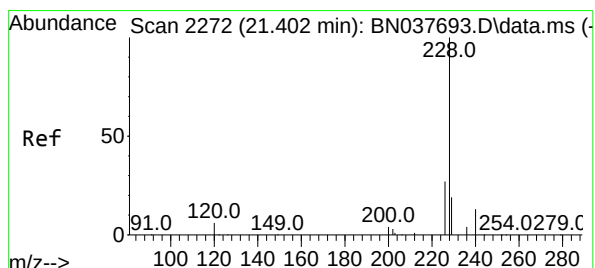
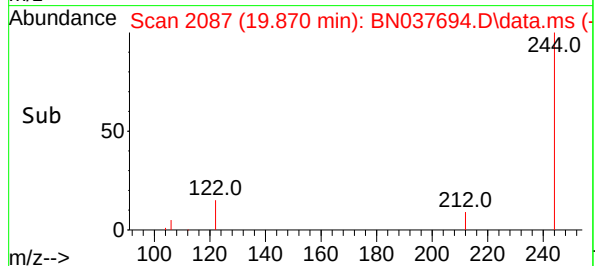
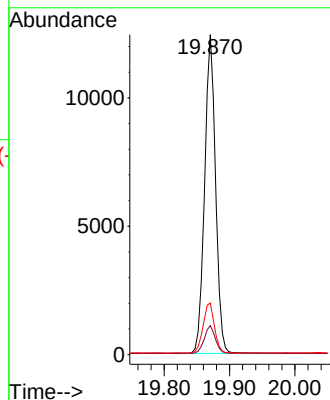
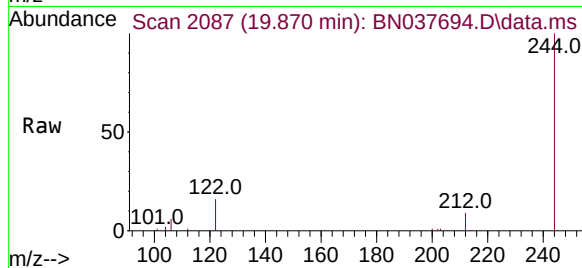




#31
Terphenyl-d14
Concen: 0.743 ng
RT: 19.870 min Scan# 2087
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

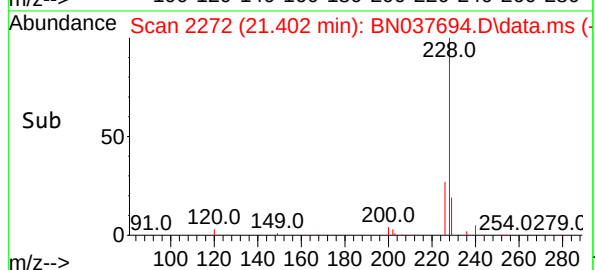
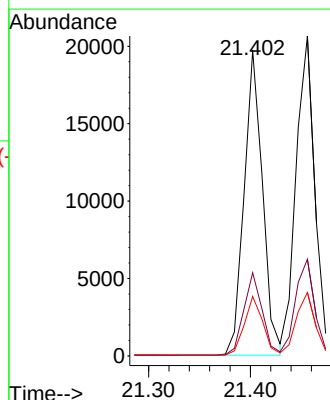
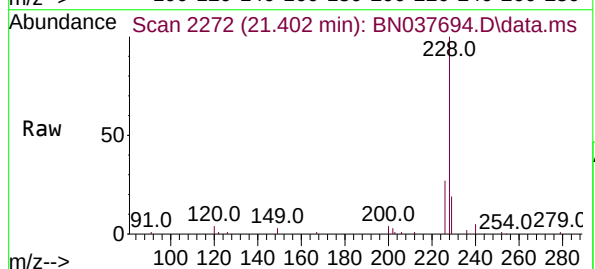
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

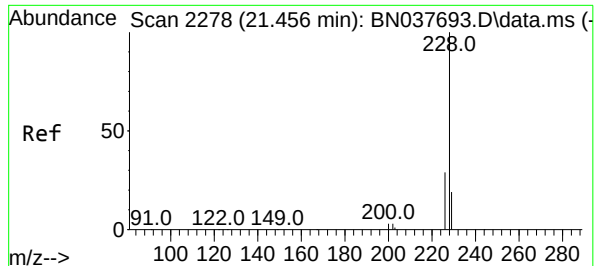
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.1	7.5	11.3
122	16.1	13.2	19.8



#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

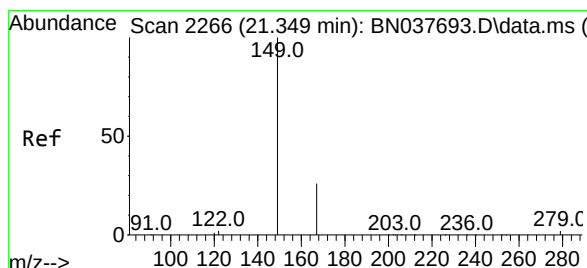
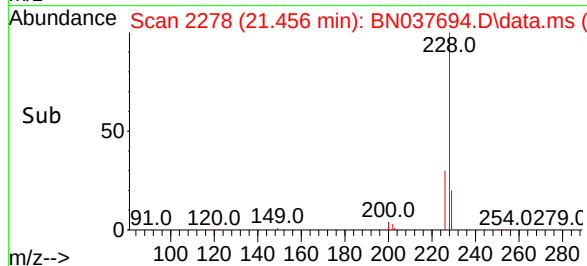
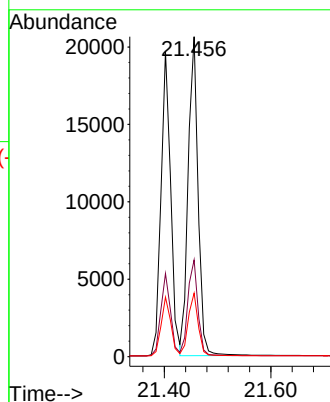
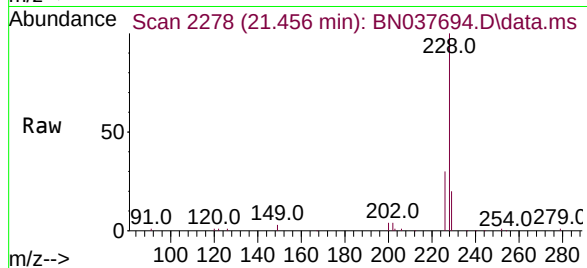
Tgt Ion:228 Resp: 26737

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

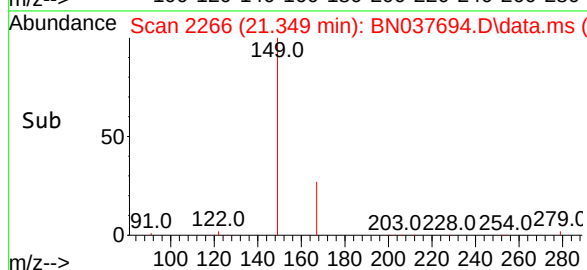
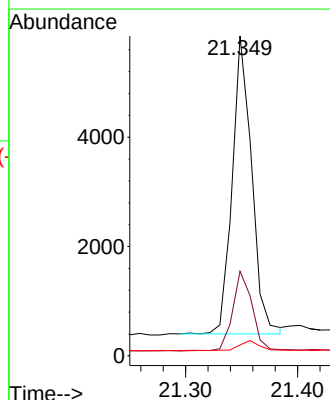
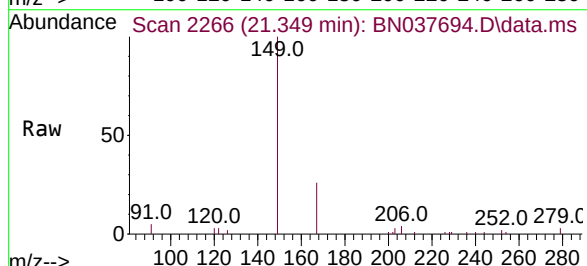
Tgt Ion:149 Resp: 6579

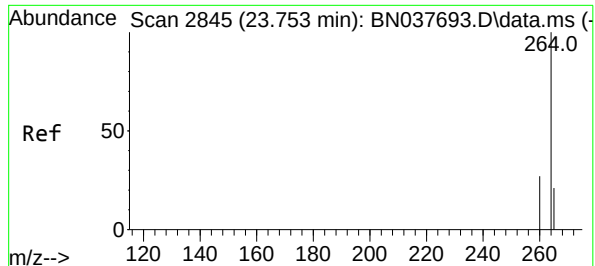
Ion Ratio Lower Upper

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

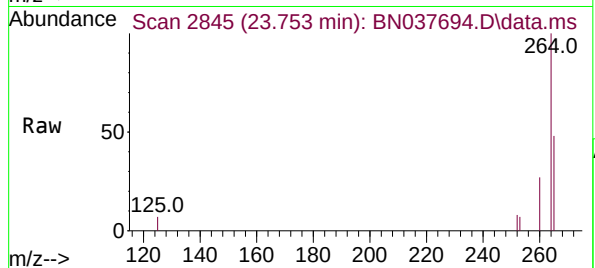
Acq: 11 Sep 2025 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8



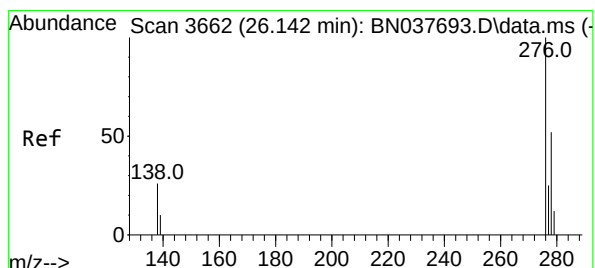
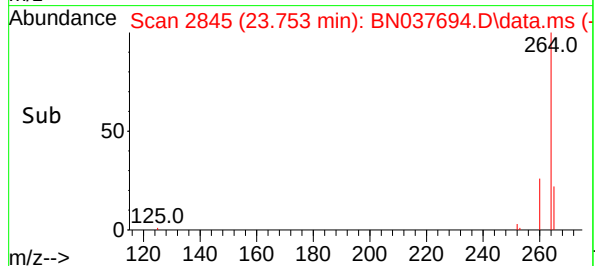
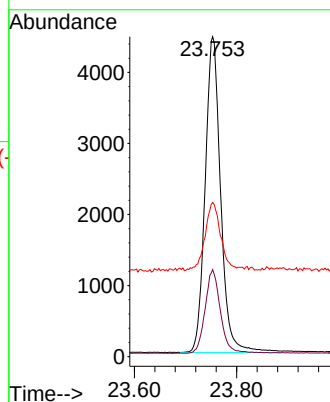
Tgt Ion:264 Resp: 9336

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

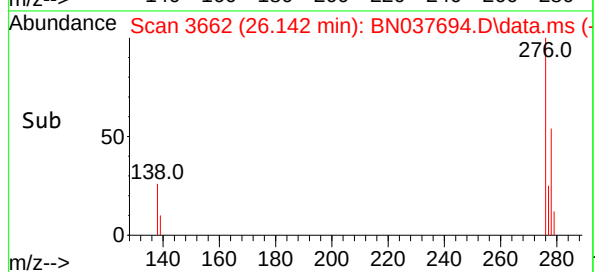
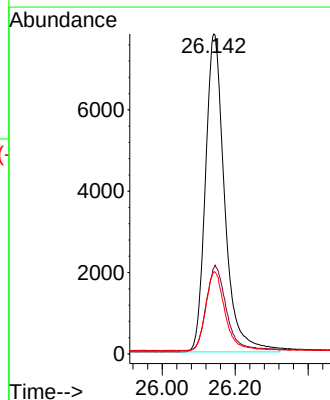
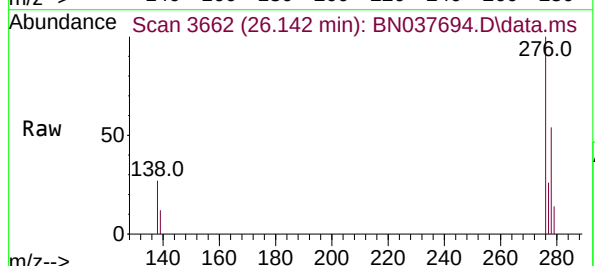
Tgt Ion:276 Resp: 28614

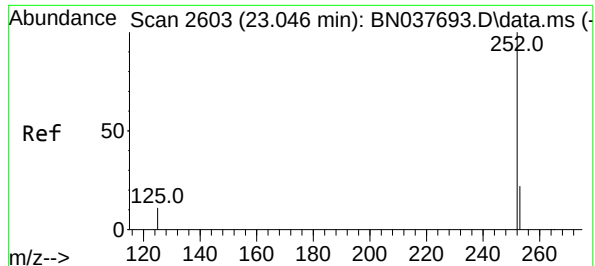
Ion Ratio Lower Upper

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

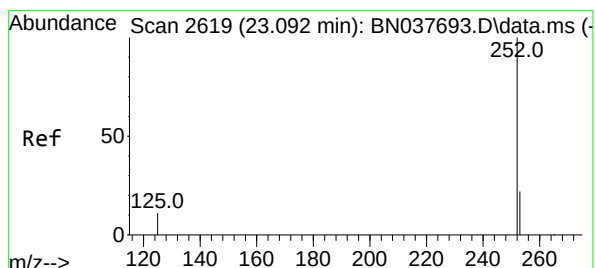
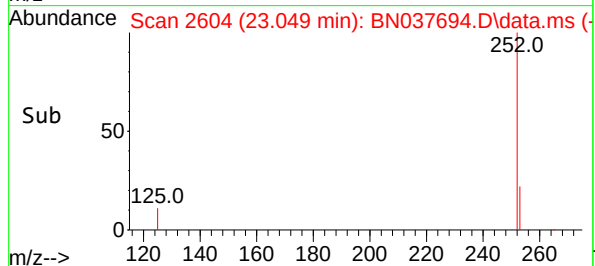
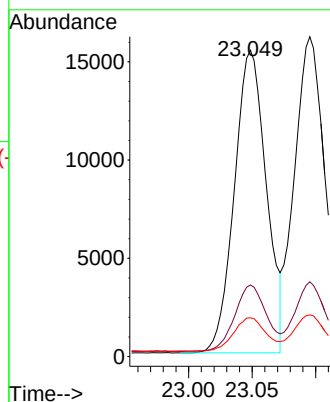
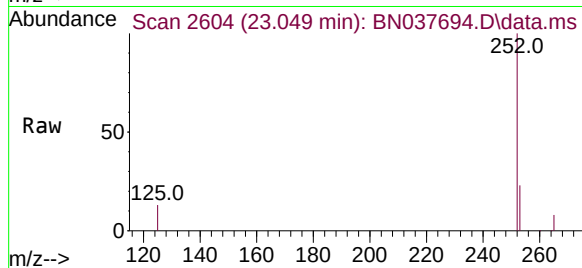
Tgt Ion:252 Resp: 26965

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

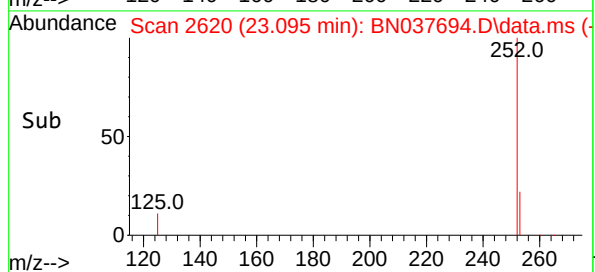
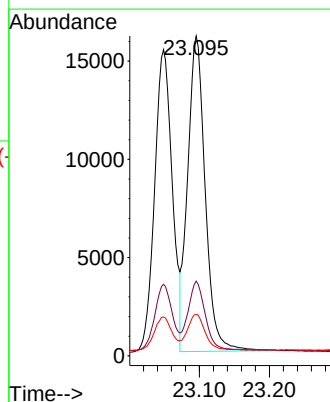
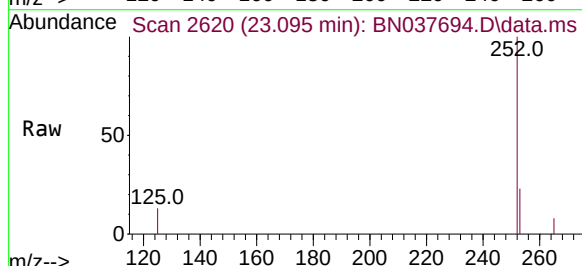
Tgt Ion:252 Resp: 28034

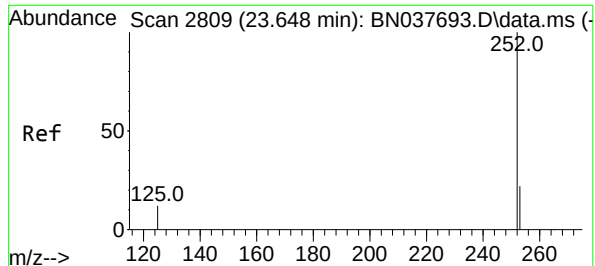
Ion Ratio Lower Upper

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

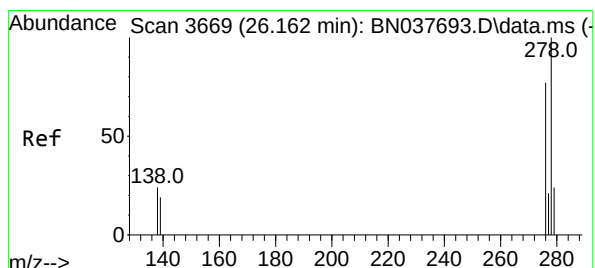
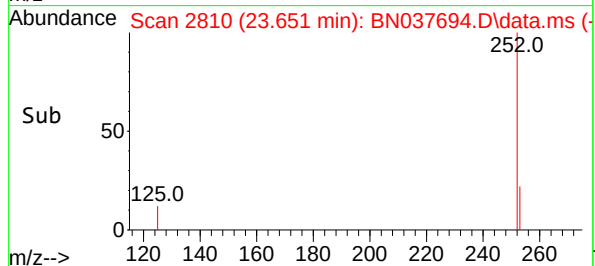
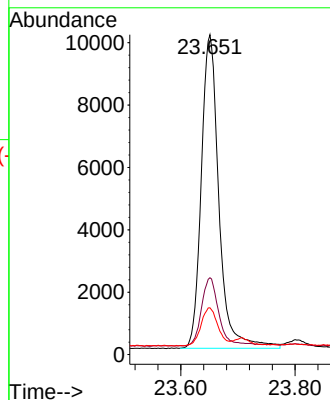
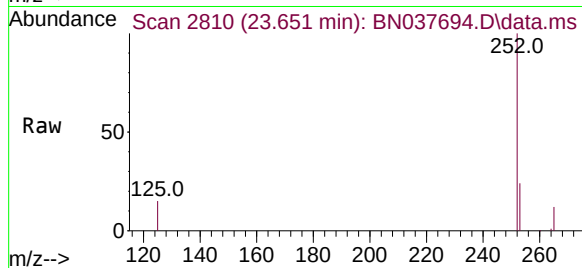
Tgt Ion:252 Resp: 21496

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

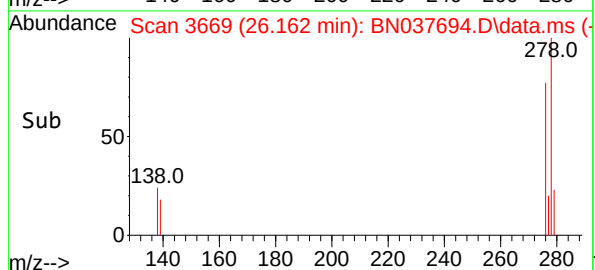
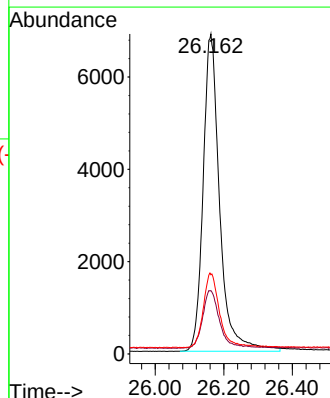
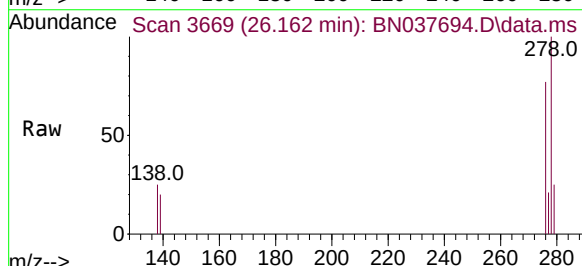
Tgt Ion:278 Resp: 23010

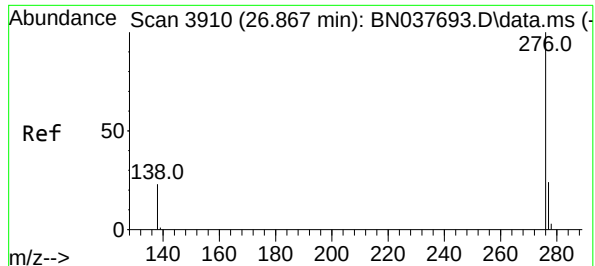
Ion Ratio Lower Upper

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

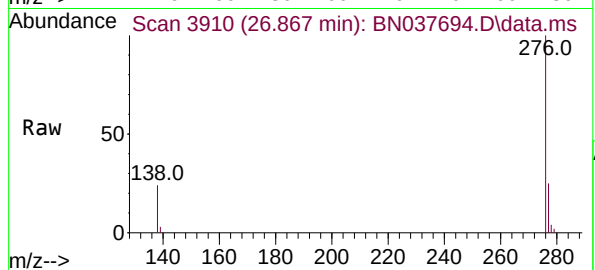
Acq: 11 Sep 2025 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



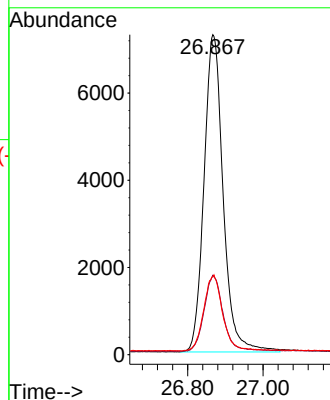
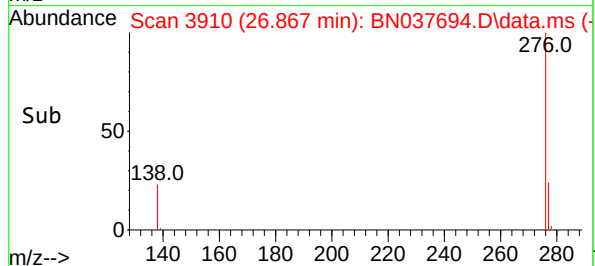
Tgt Ion:276 Resp: 25683

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

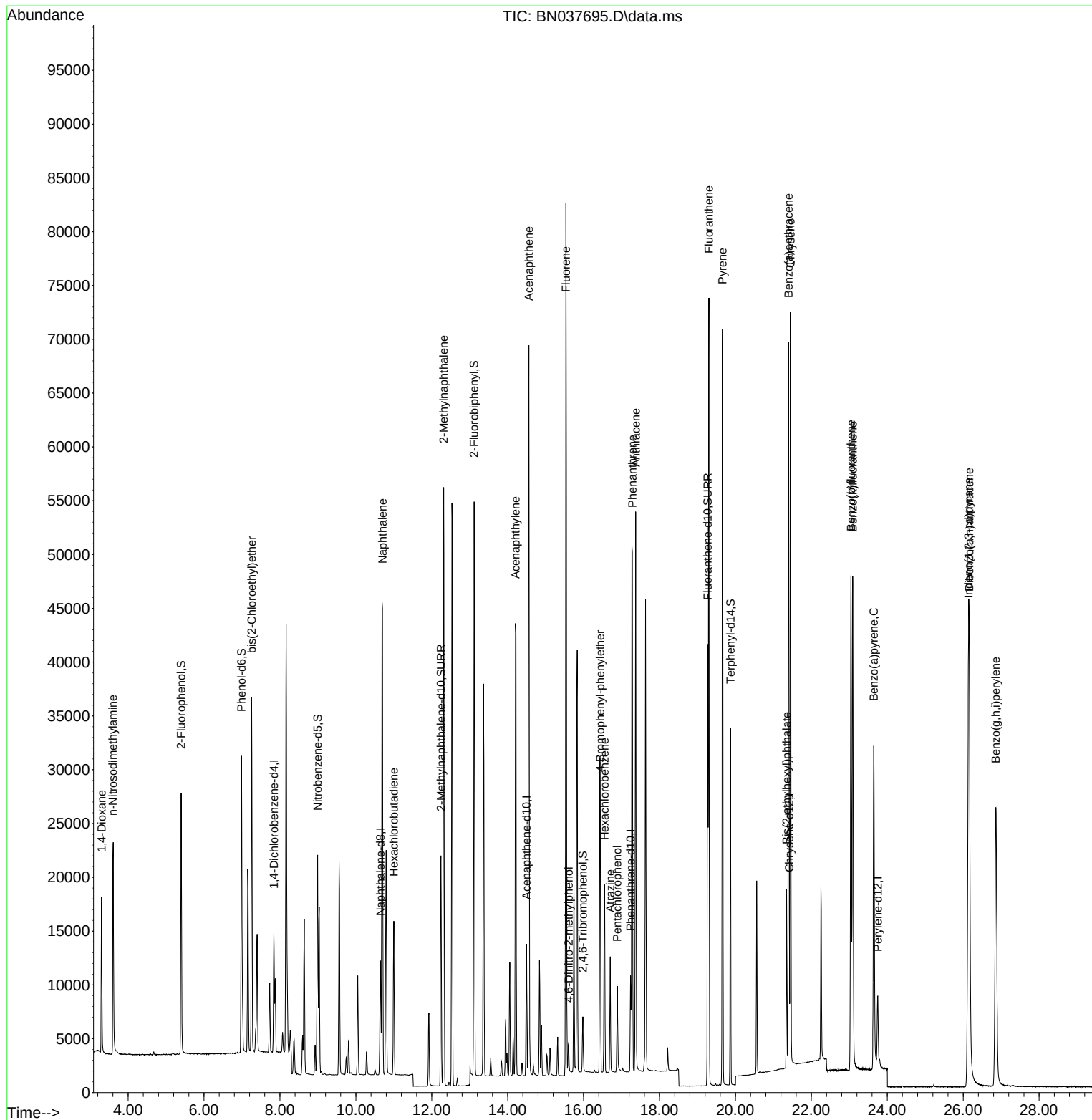
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	5277	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	13818	0.400	ng	0.00
13) Acenaphthene-d10	14.495	164	6567	0.400	ng	0.00
19) Phenanthrene-d10	17.236	188	11496	0.400	ng	0.00
29) Chrysene-d12	21.420	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						
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

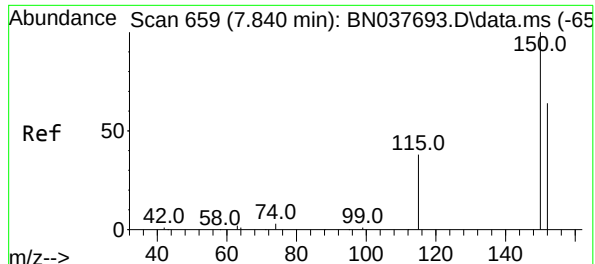
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037695.D
Acq On : 11 Sep 2025 12:20
Operator : RC/JU
Sample : SSTDIC1.6
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

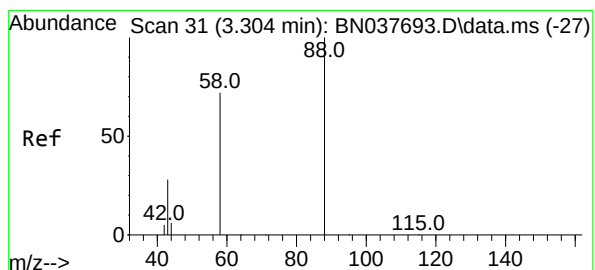
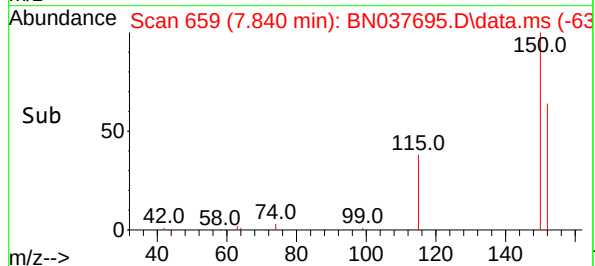
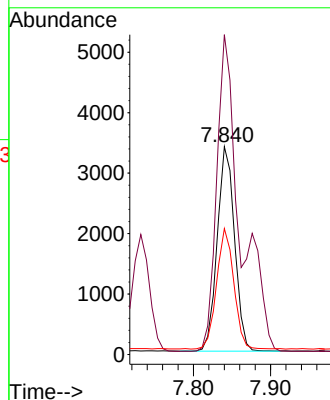
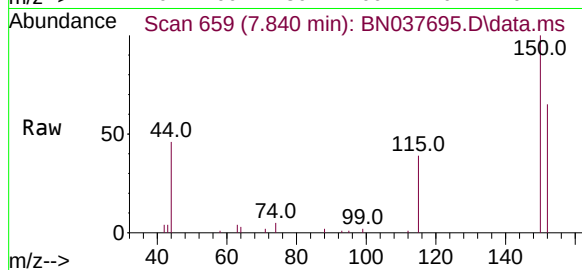




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

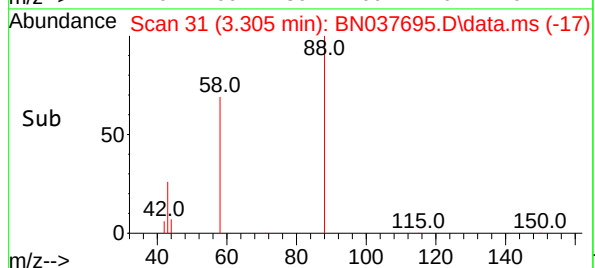
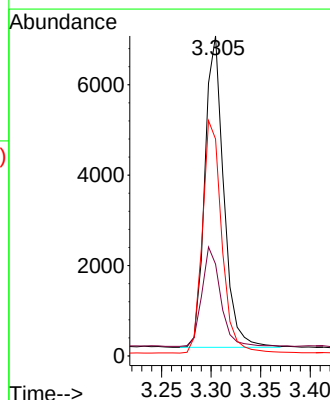
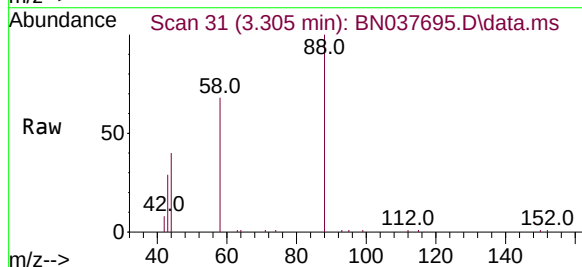
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

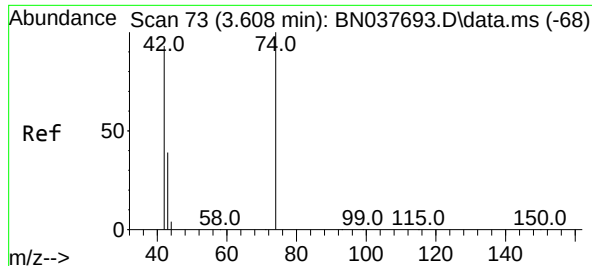
Tgt Ion:152 Resp: 5277
Ion Ratio Lower Upper
152 100
150 153.9 124.5 186.7
115 60.6 49.2 73.8



#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

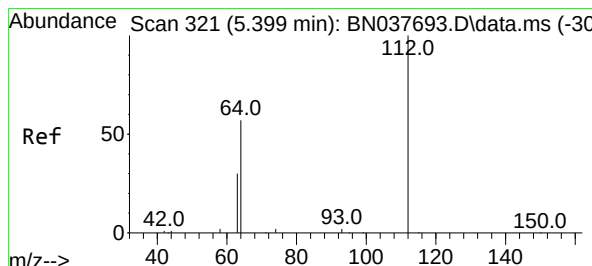
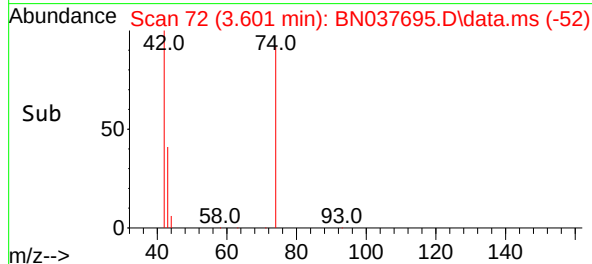
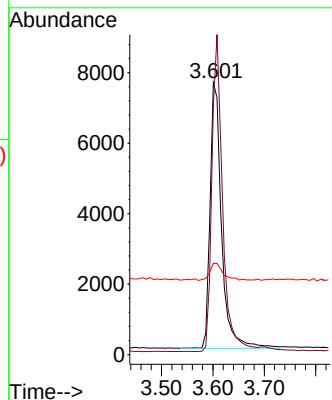
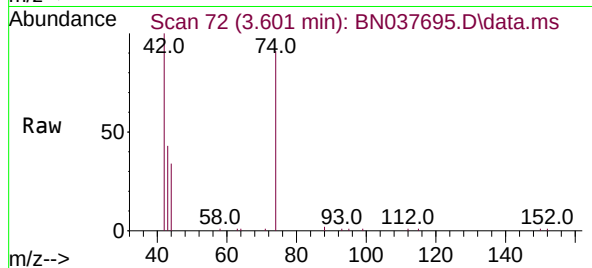




#3
n-Nitrosodimethylamine
Concen: 1.633 ng
RT: 3.601 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

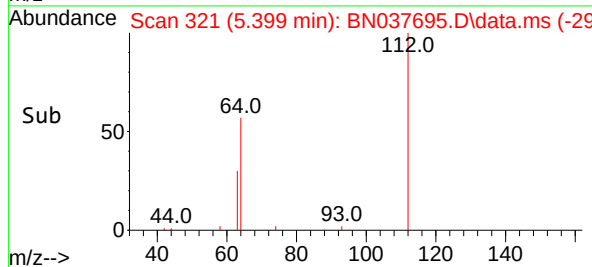
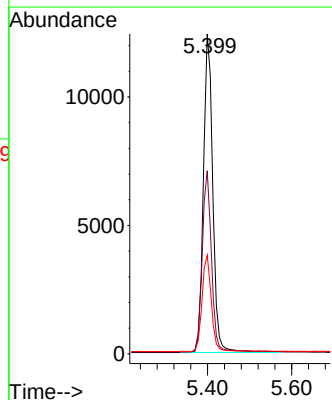
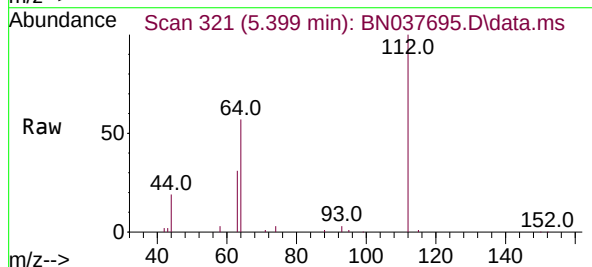
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

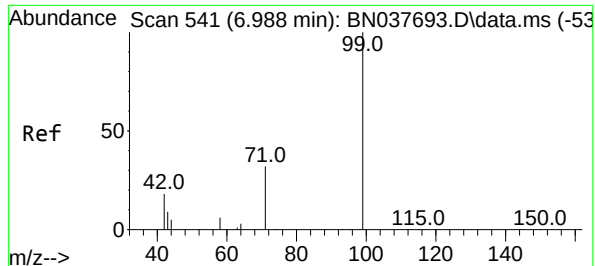
Tgt Ion: 42 Resp: 11726
Ion Ratio Lower Upper
42 100
74 111.0 86.0 129.0
44 7.4 8.4 12.6#



#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

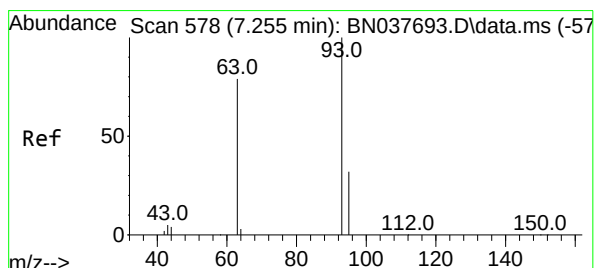
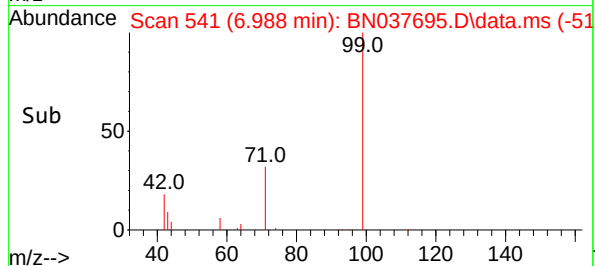
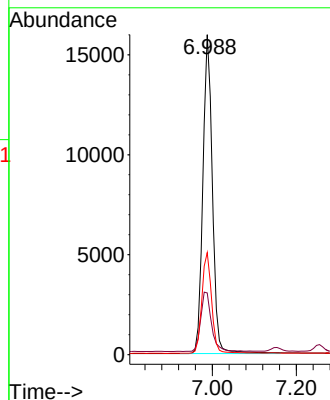
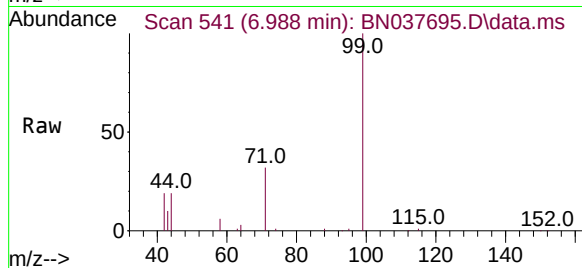
Tgt Ion: 99 Resp: 25180

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

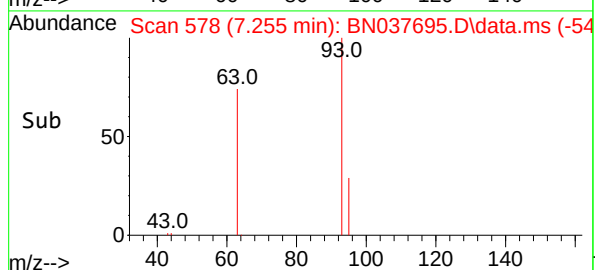
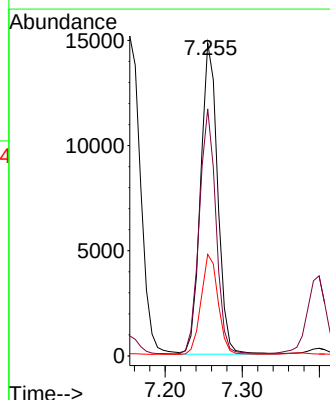
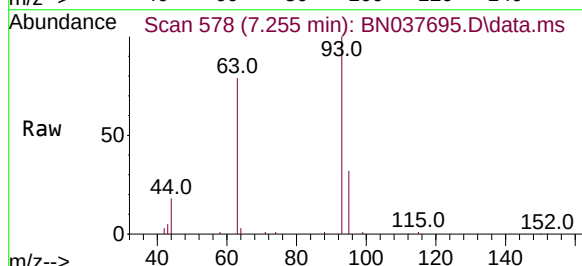
Tgt Ion: 93 Resp: 22759

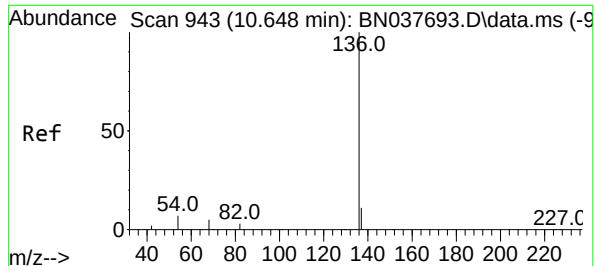
Ion Ratio Lower Upper

93 100

63 76.7 60.6 90.8

95 32.0 26.0 39.0

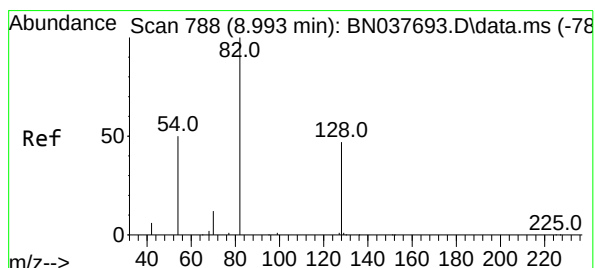
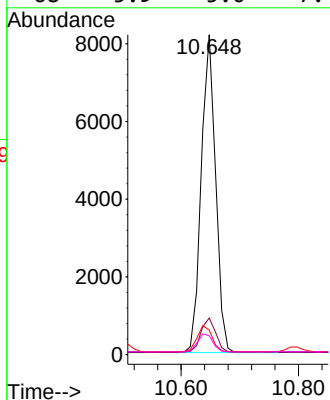
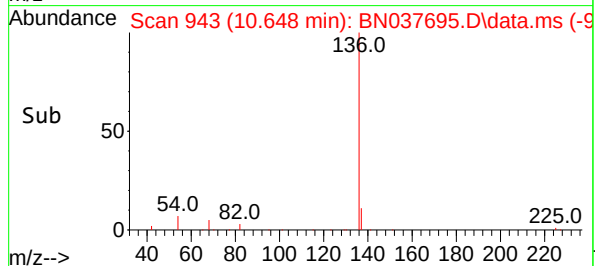
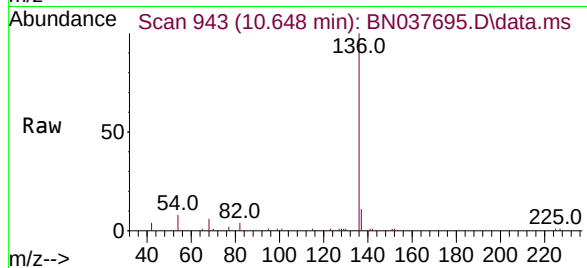




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

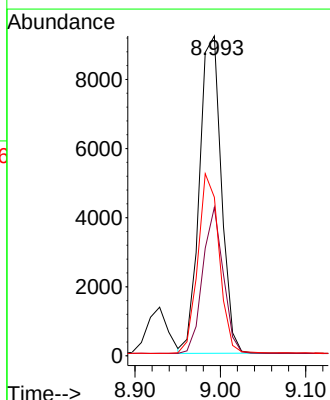
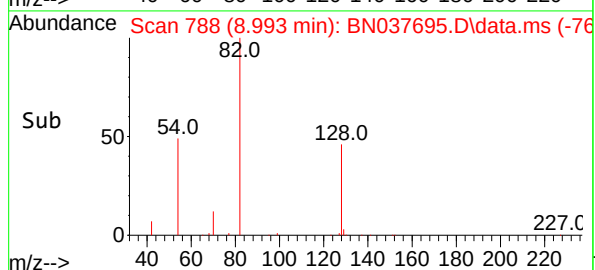
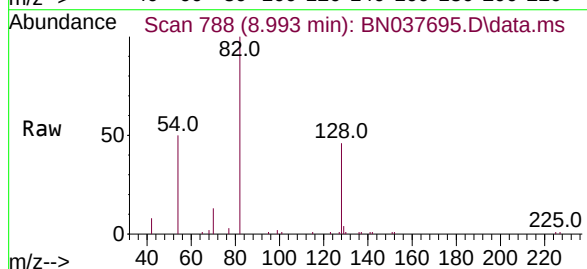
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

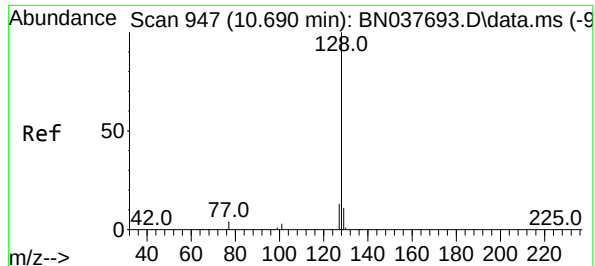
Tgt Ion:	136	Resp:	13818
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	7.7	6.3	9.5
68	5.9	5.0	7.4



#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

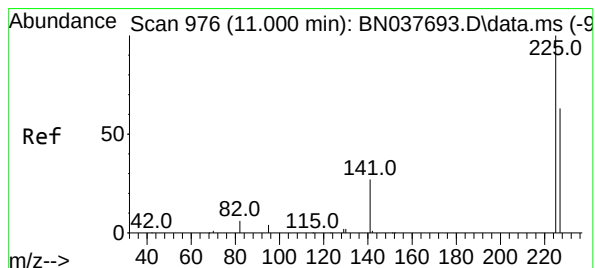
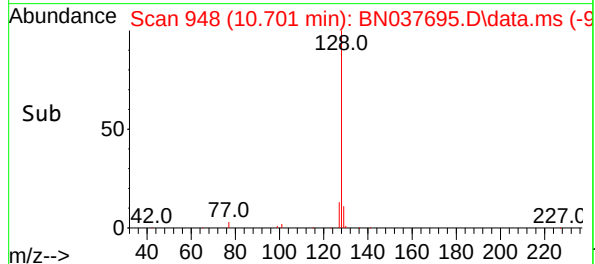
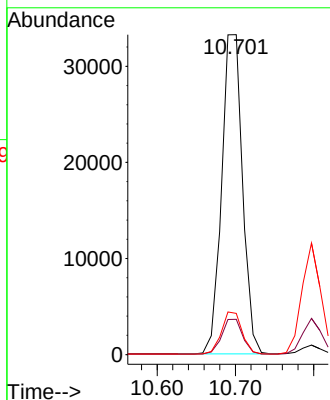
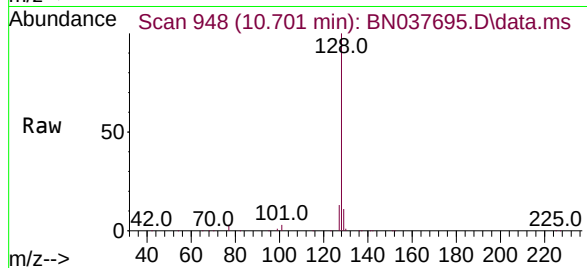




#9
Naphthalene
Concen: 1.634 ng
RT: 10.701 min Scan# 948
Delta R.T. 0.011 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

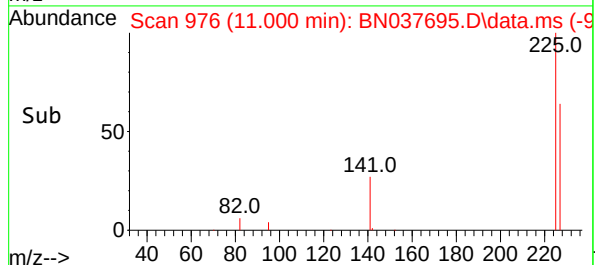
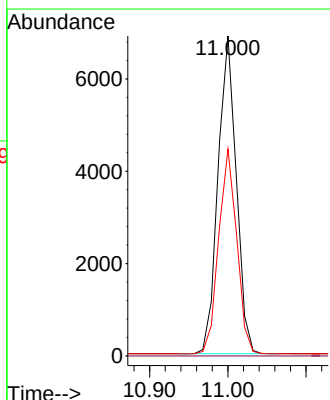
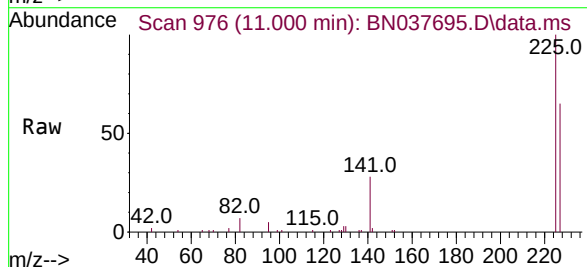
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

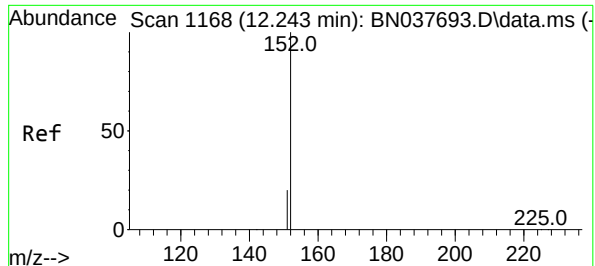
Tgt Ion:128 Resp: 61726
Ion Ratio Lower Upper
128 100
129 11.0 9.1 13.7
127 12.9 10.9 16.3



#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

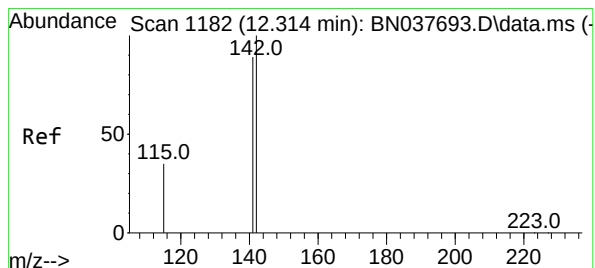
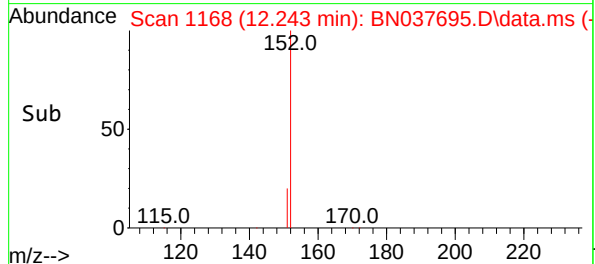
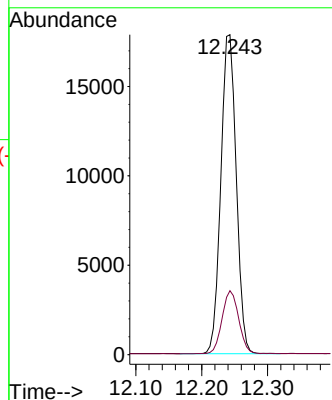
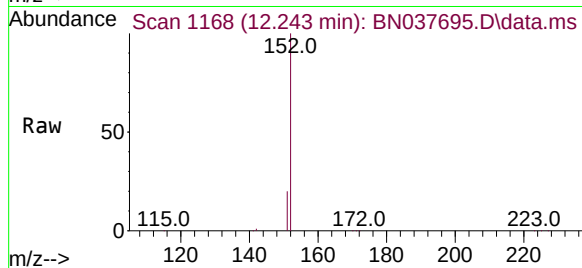




#11
2-Methylnaphthalene-d10
Concen: 1.576 ng
RT: 12.243 min Scan# 1168
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

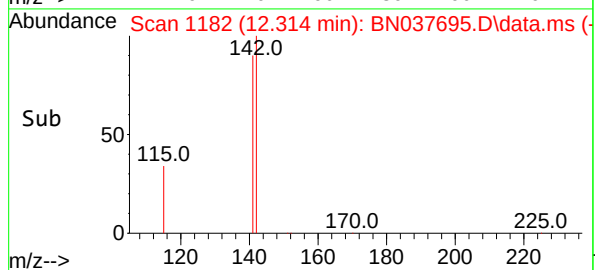
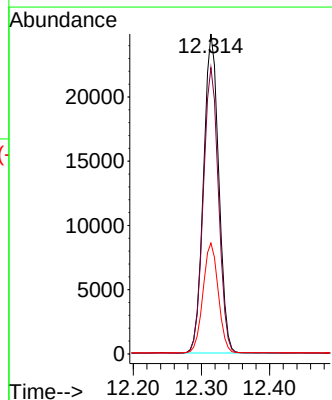
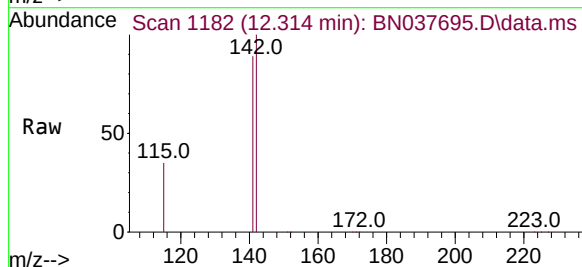
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ClientSampleId :
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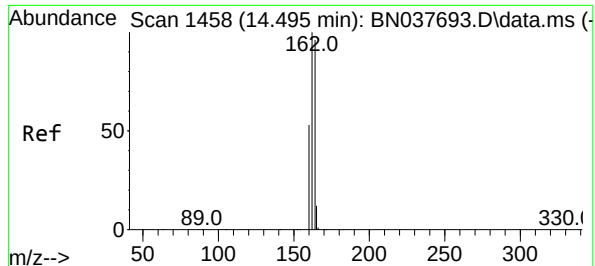
Tgt Ion:152 Resp: 28843
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#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

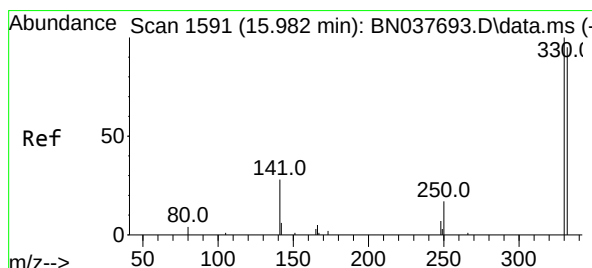
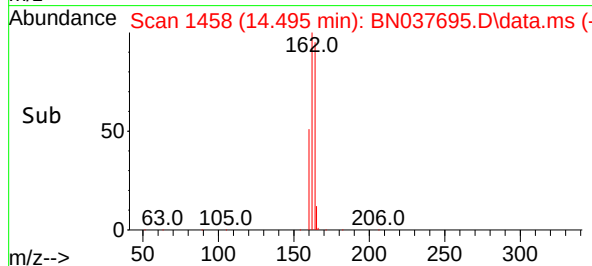
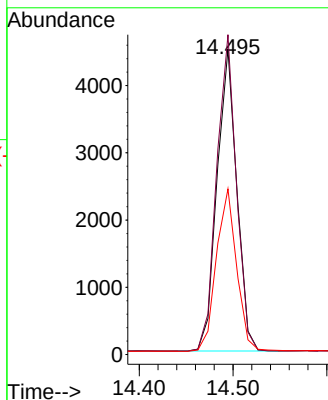
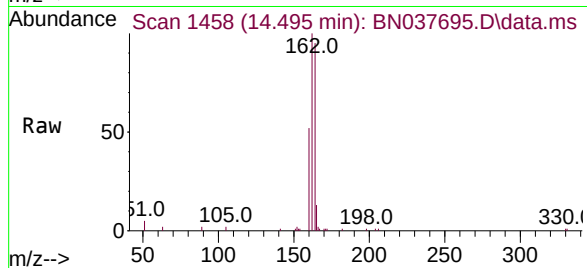
Tgt Ion:164 Resp: 6567

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

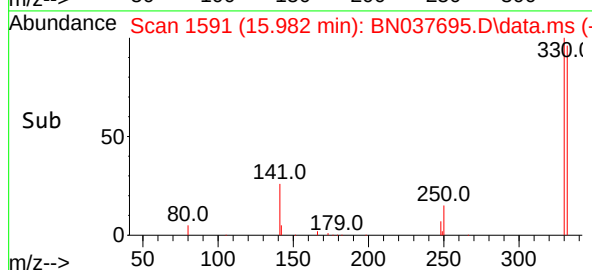
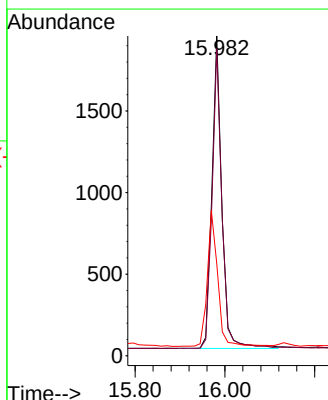
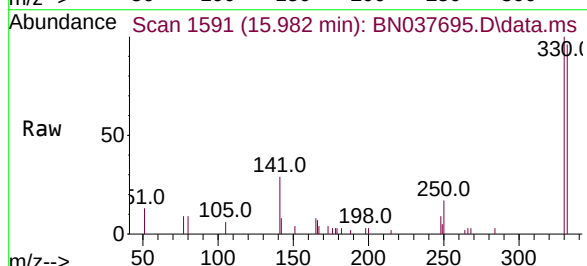
Tgt Ion:330 Resp: 2959

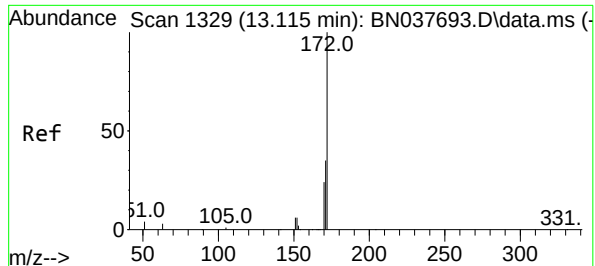
Ion Ratio Lower Upper

330 100

332 95.0 75.3 112.9

141 45.3 35.0 52.4

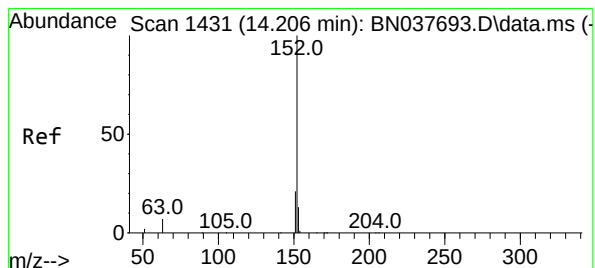
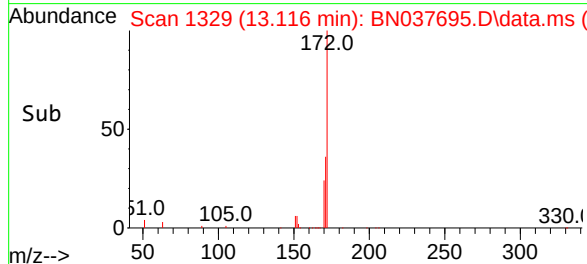
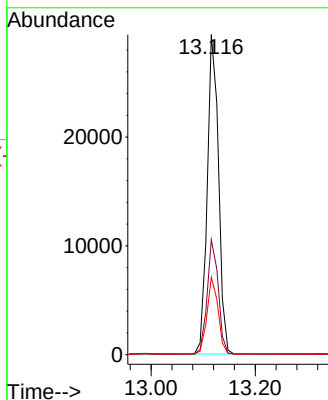
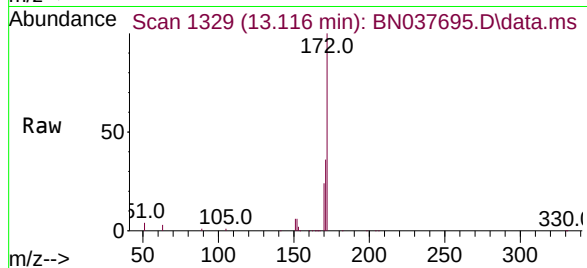




#15
2-Fluorobiphenyl
Concen: 1.615 ng
RT: 13.116 min Scan# 1329
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

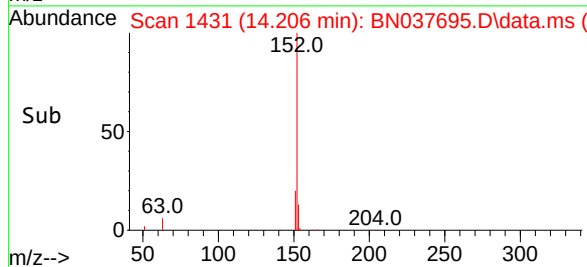
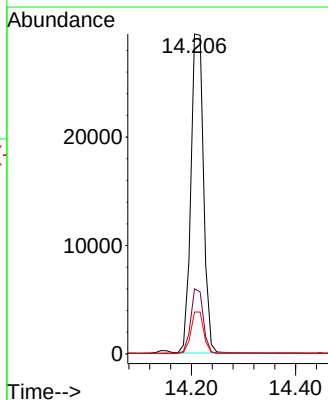
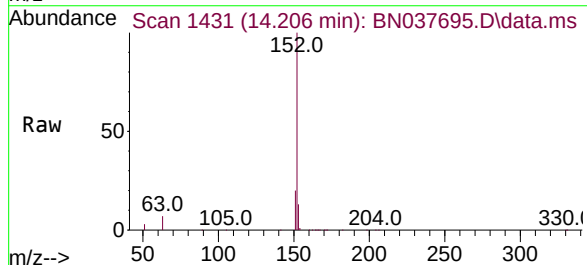
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

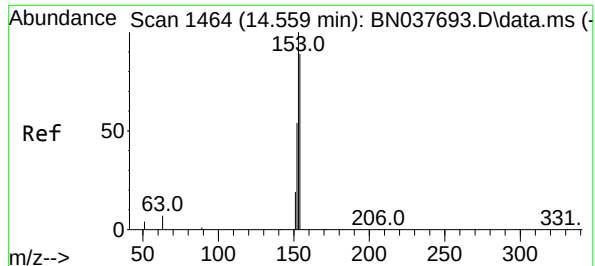
Tgt Ion:172 Resp: 44363
Ion Ratio Lower Upper
172 100
171 35.9 28.6 43.0
170 24.2 19.8 29.8



#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

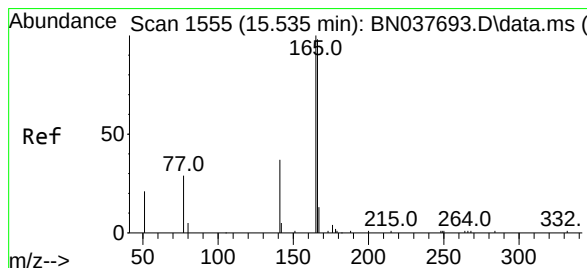
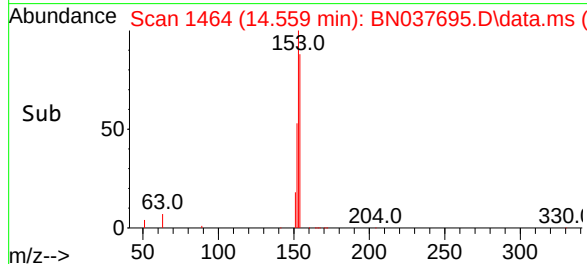
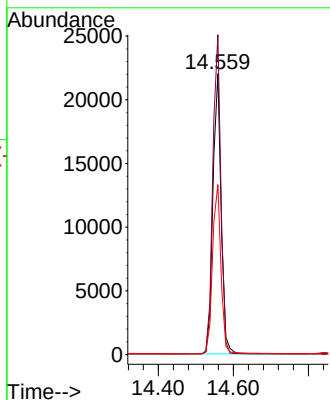
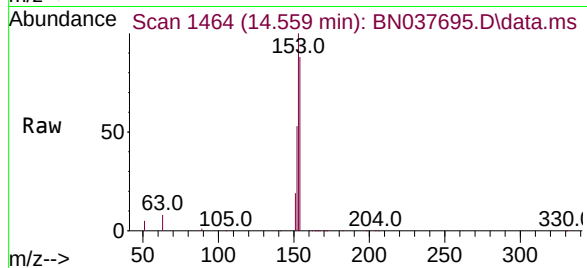




#17
Acenaphthene
Concen: 1.641 ng
RT: 14.559 min Scan# 1464
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

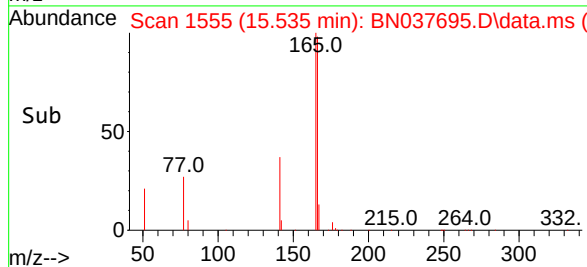
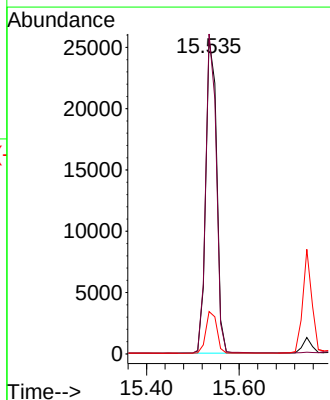
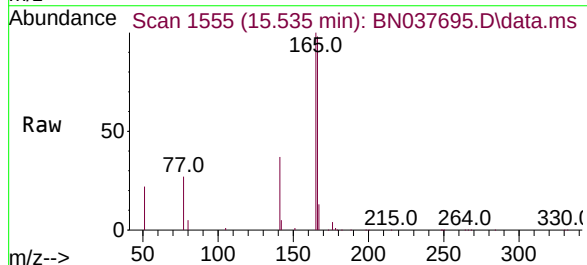
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

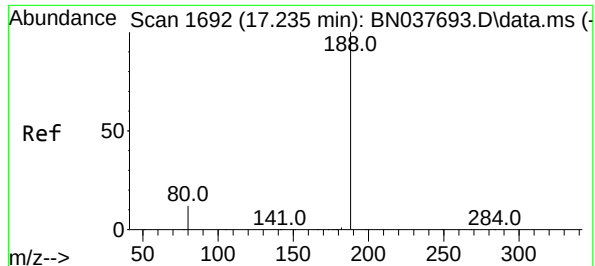
Tgt Ion	154	Resp	33424
Ion Ratio	Lower	Upper	
154	100		
153	111.9	89.8	134.8
152	61.8	50.2	75.2



#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# 1692

Delta R.T. 0.000 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

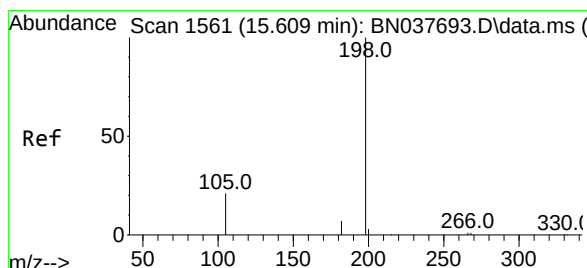
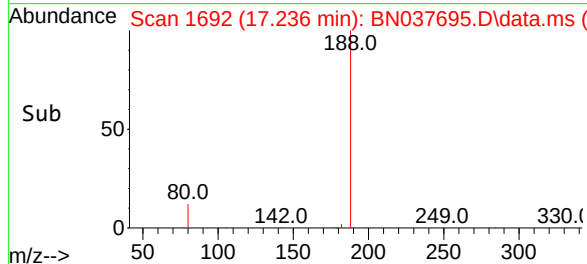
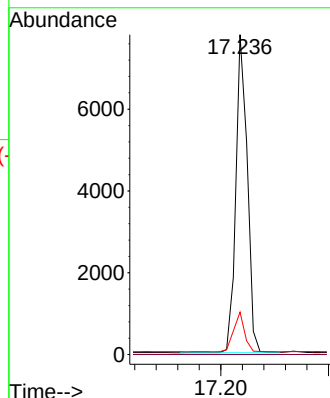
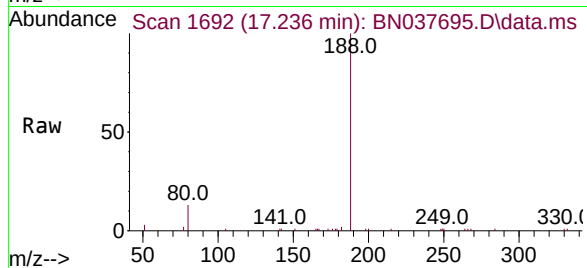
Tgt Ion:188 Resp: 11496

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

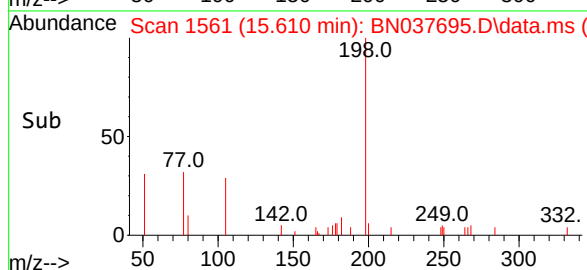
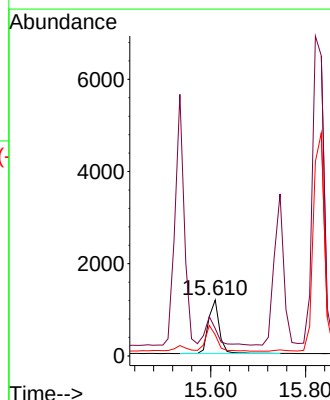
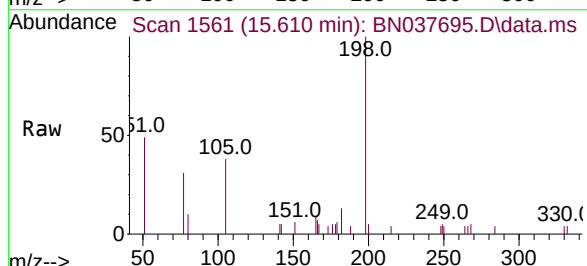
Tgt Ion:198 Resp: 1837

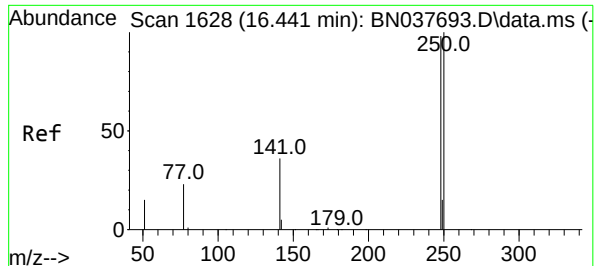
Ion Ratio Lower Upper

198 100

51 48.7 95.1 142.7#

105 37.6 53.8 80.6#

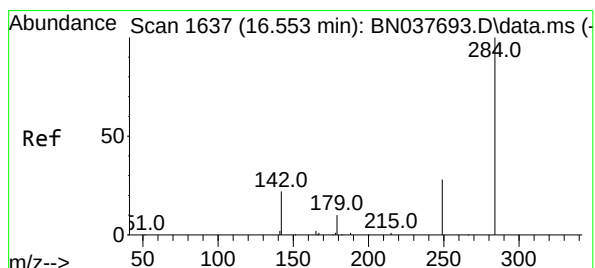
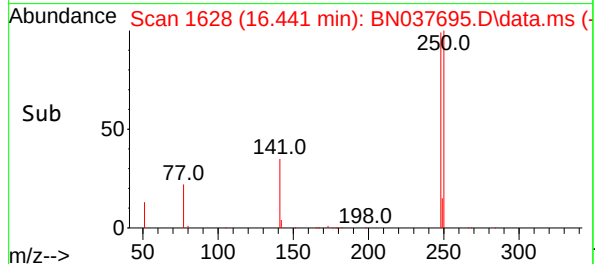
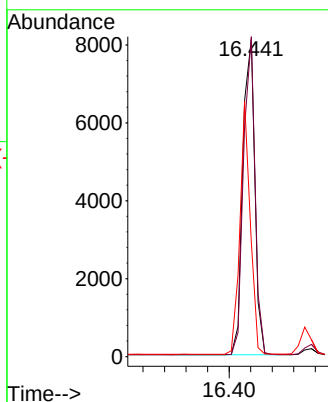
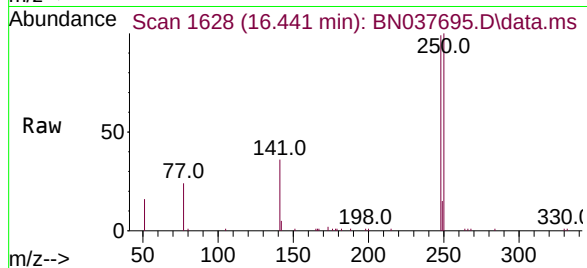




#21
4-Bromophenyl-phenylether
Concen: 1.669 ng
RT: 16.441 min Scan# 1628
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

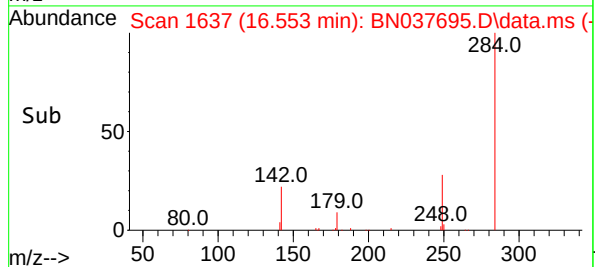
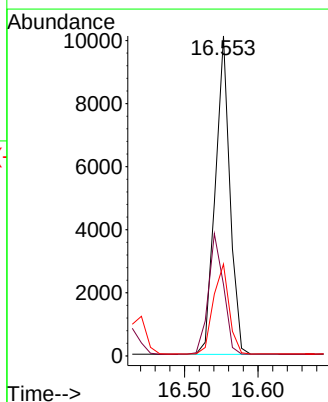
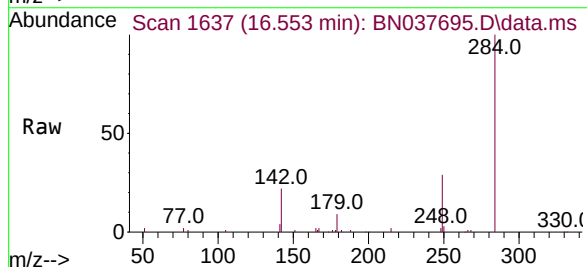
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

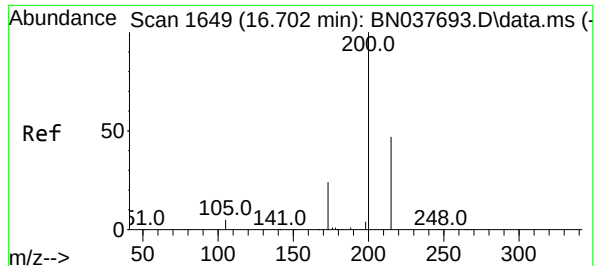
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.8	81.5	122.3
141	36.0	30.8	46.2



#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

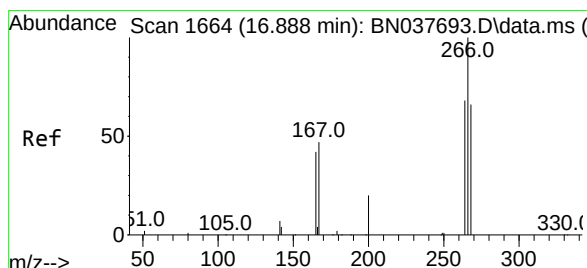
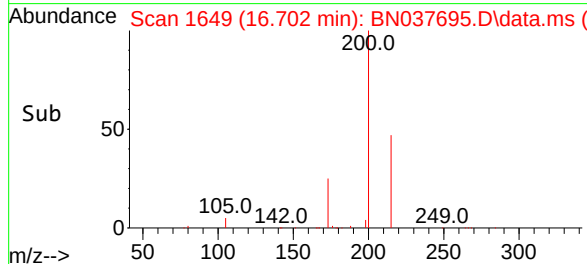
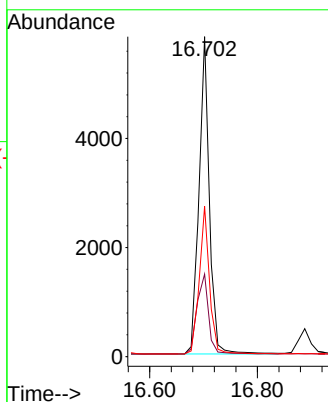
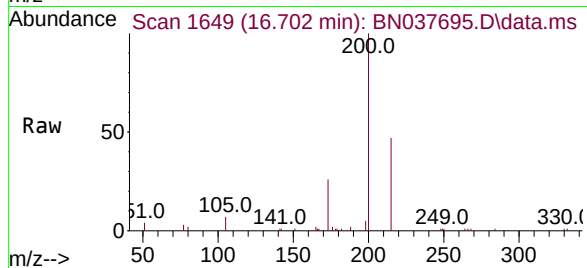
Tgt Ion:200 Resp: 7765

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

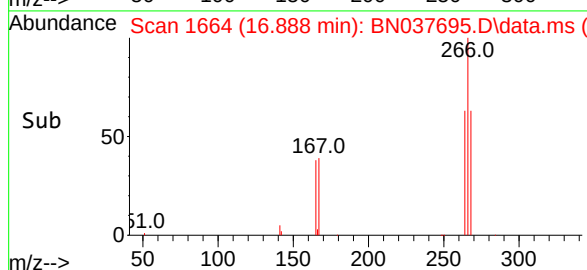
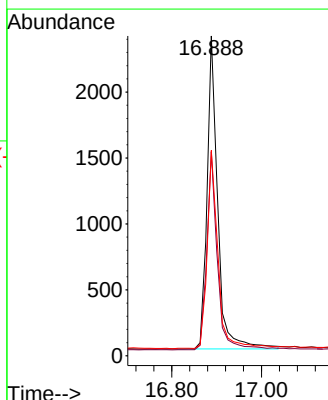
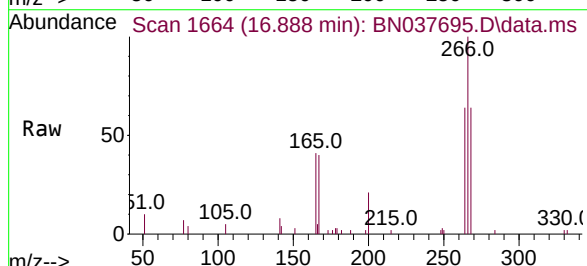
Tgt Ion:266 Resp: 3932

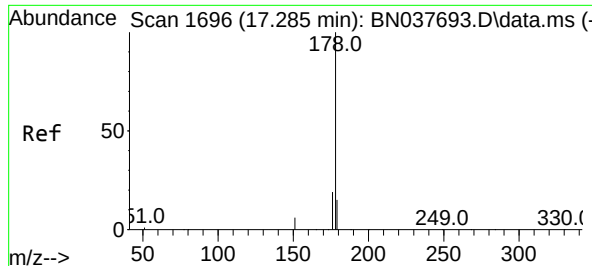
Ion Ratio Lower Upper

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

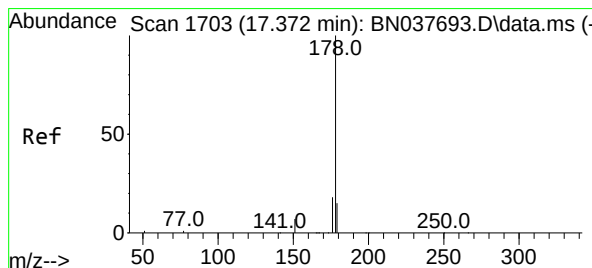
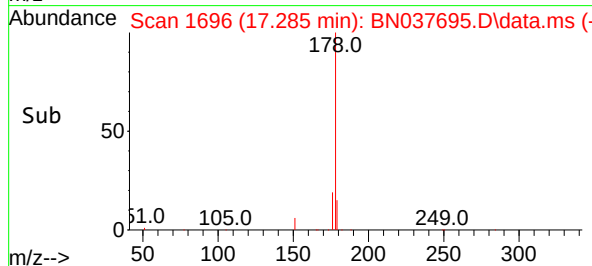
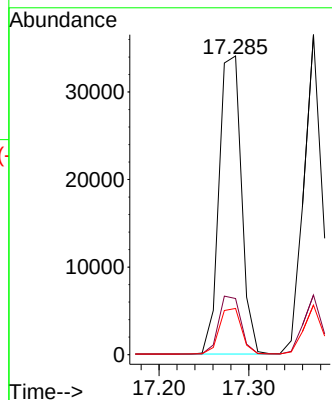
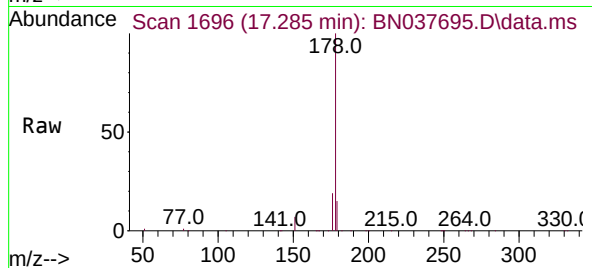
Tgt Ion:178 Resp: 59082

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

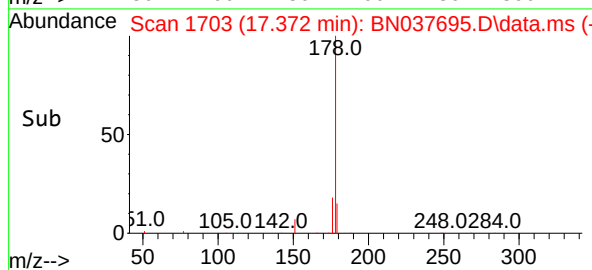
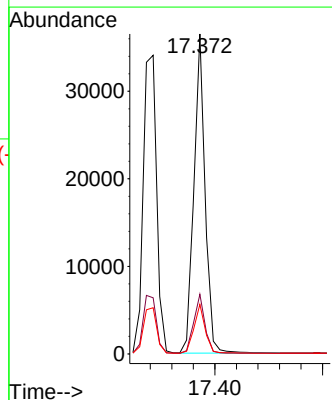
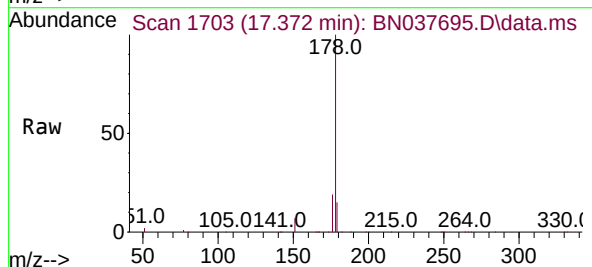
Tgt Ion:178 Resp: 52416

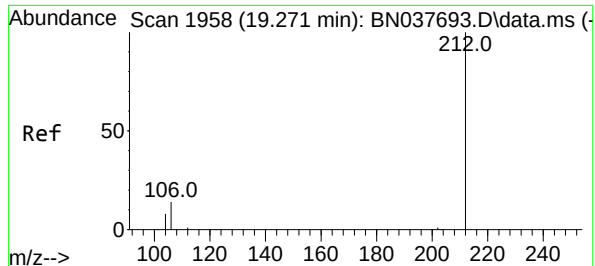
Ion Ratio Lower Upper

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

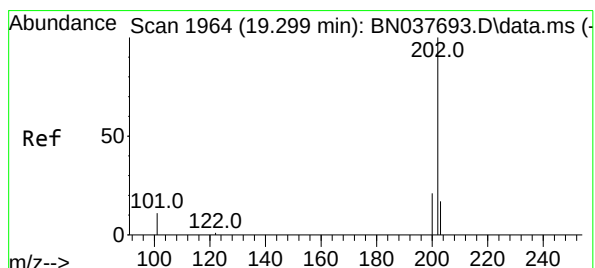
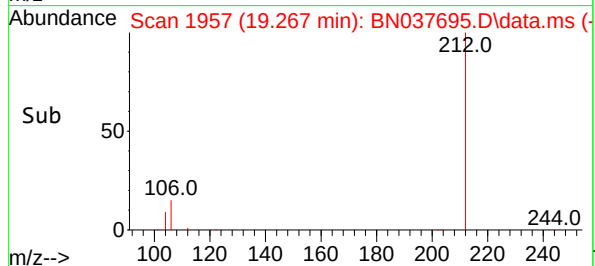
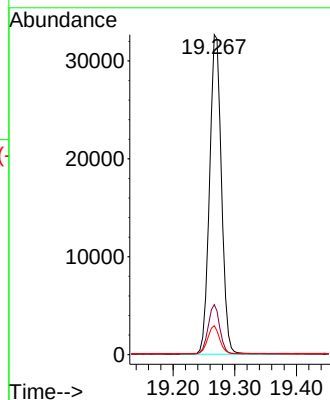
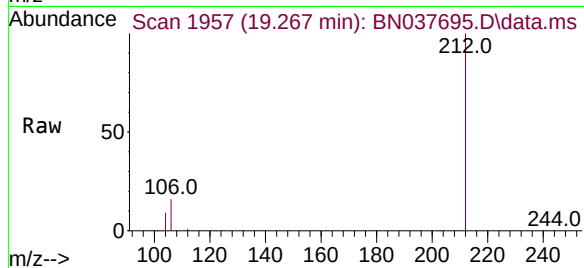
Tgt Ion:212 Resp: 43876

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

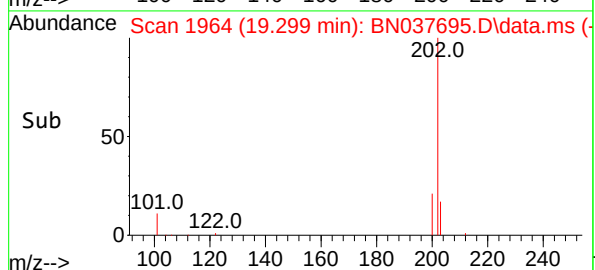
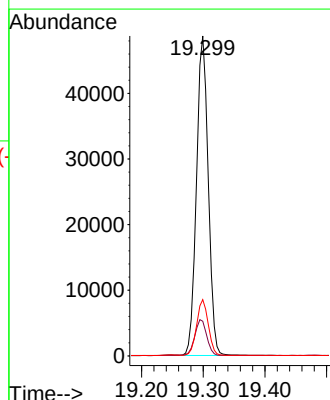
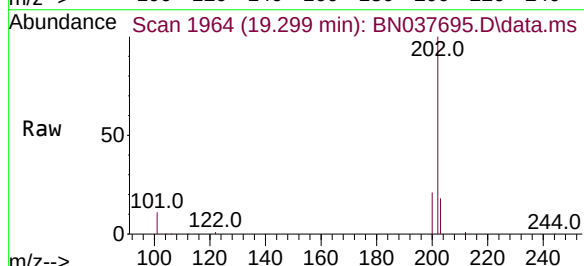
Tgt Ion:202 Resp: 64074

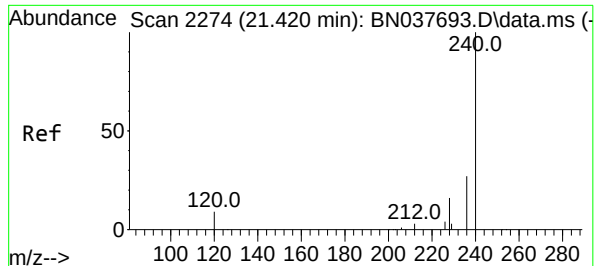
Ion Ratio Lower Upper

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

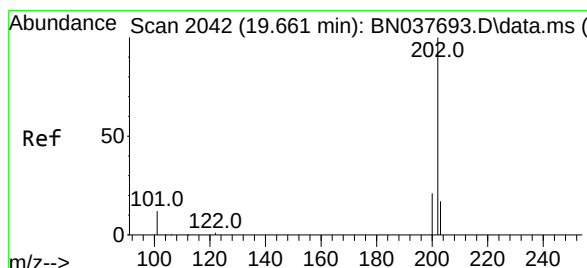
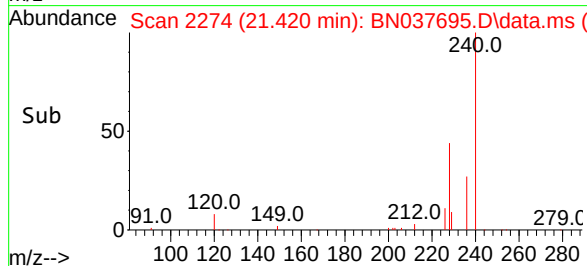
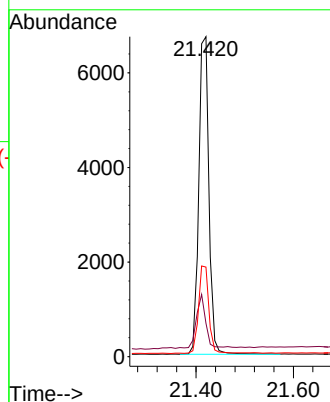
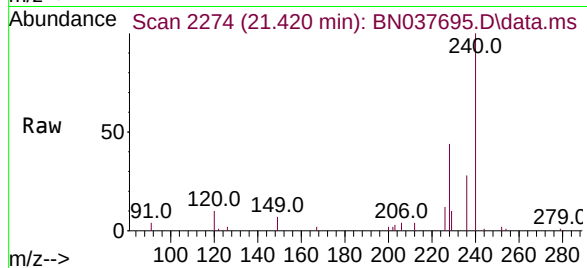
Tgt Ion:240 Resp: 9743

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

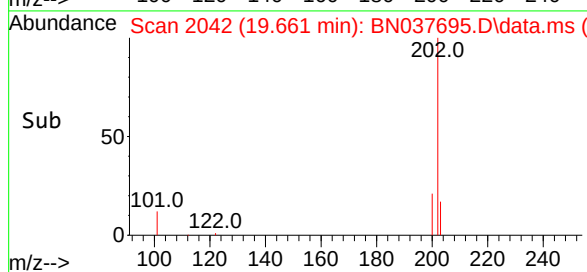
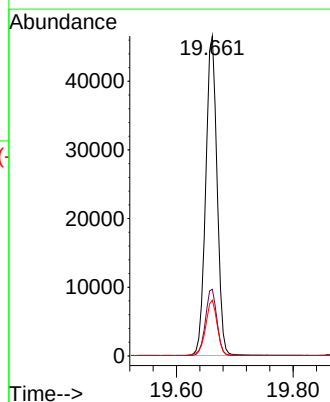
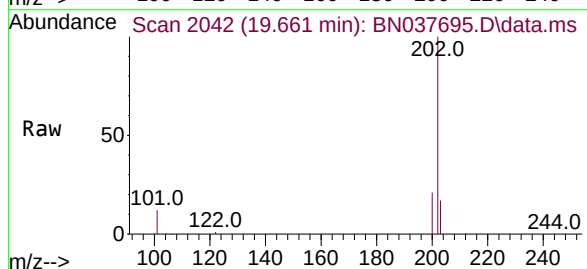
Tgt Ion:202 Resp: 62457

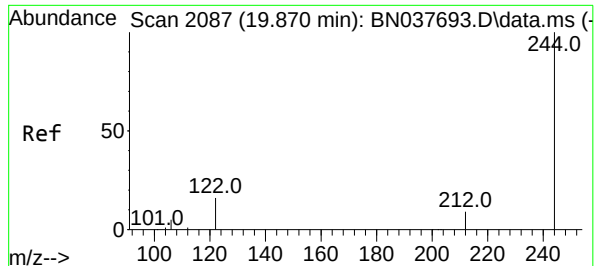
Ion Ratio Lower Upper

202 100

200 20.9 16.8 25.2

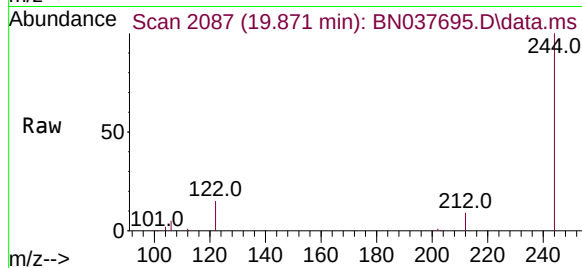
203 17.8 14.3 21.5



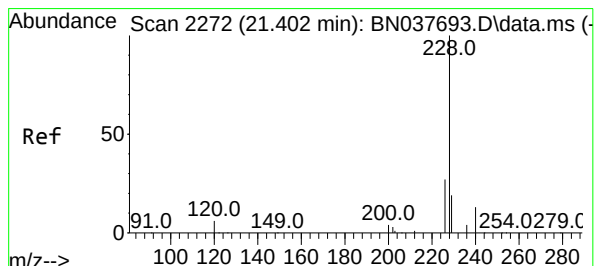
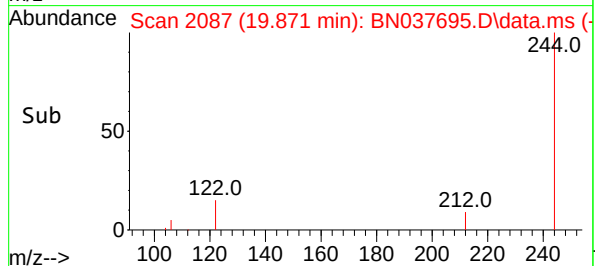
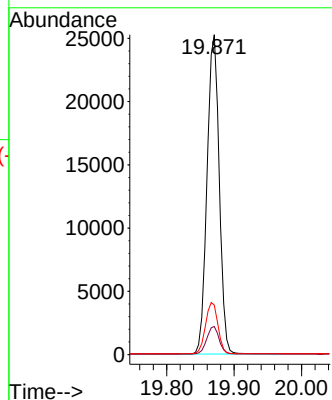


#31
Terphenyl-d14
Concen: 1.601 ng
RT: 19.871 min Scan# 2087
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

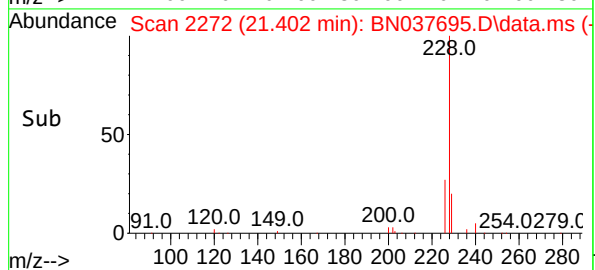
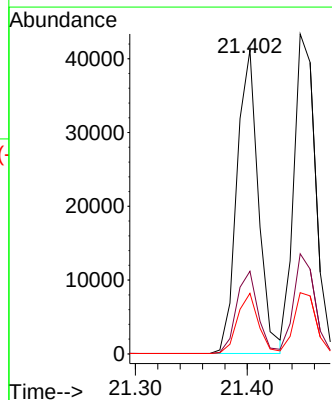
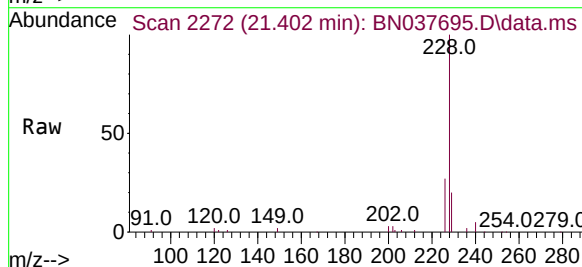


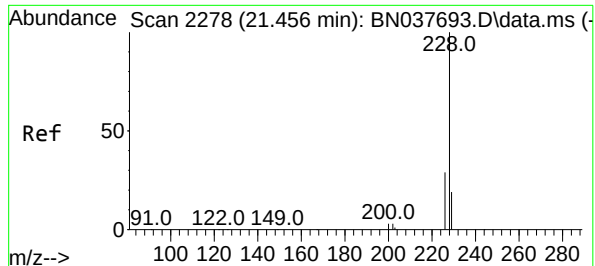
Tgt Ion:244 Resp: 31656
Ion Ratio Lower Upper
244 100
212 8.8 7.5 11.3
122 15.5 13.2 19.8



#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:228 Resp: 54932
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

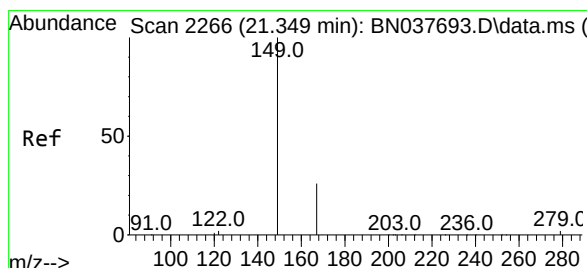
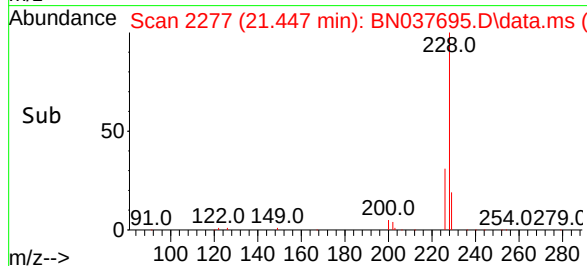
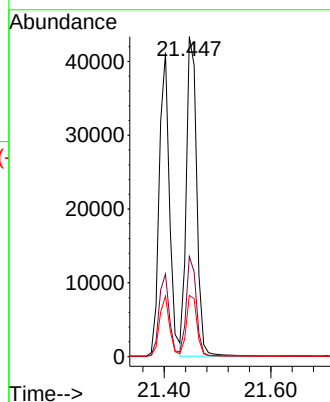
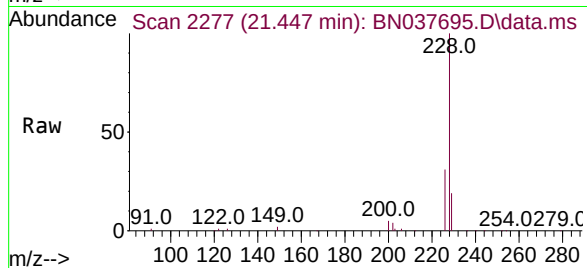
Tgt Ion:228 Resp: 58866

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

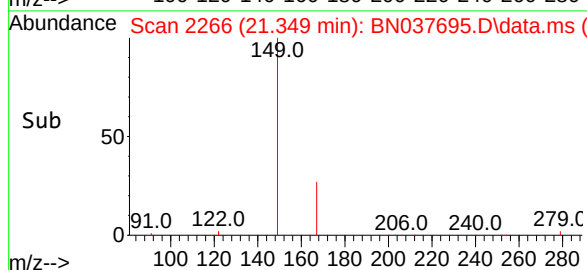
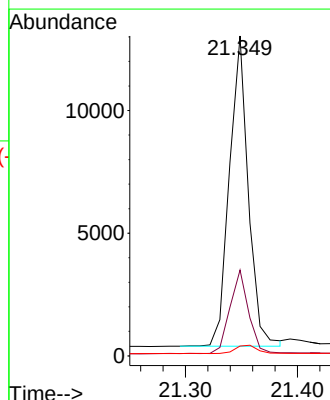
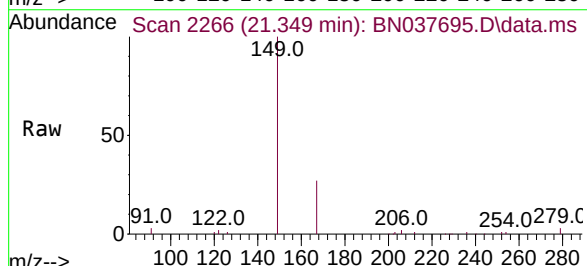
Tgt Ion:149 Resp: 14814

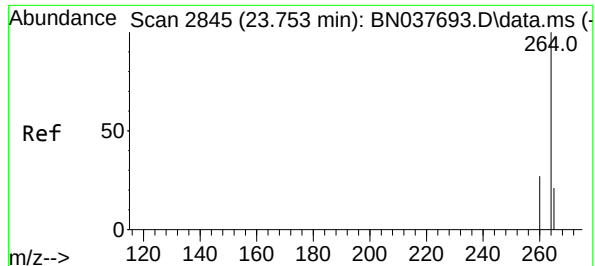
Ion Ratio Lower Upper

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

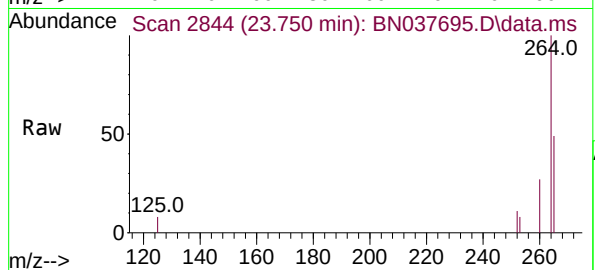
Acq: 11 Sep 2025 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



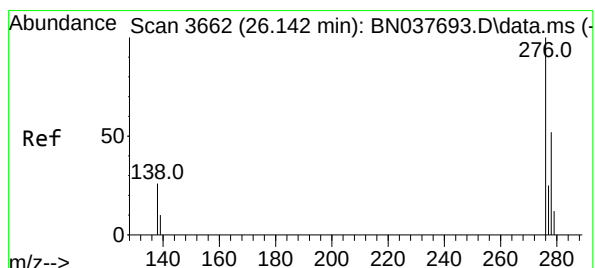
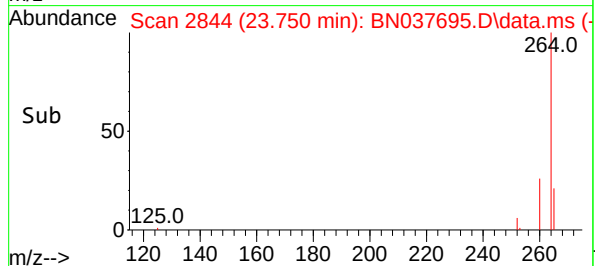
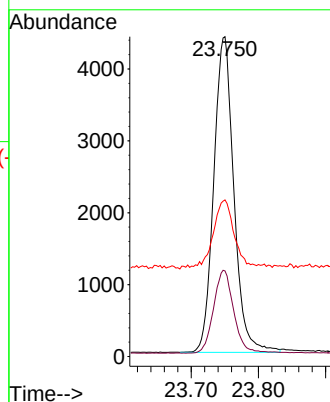
Tgt Ion:264 Resp: 9111

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

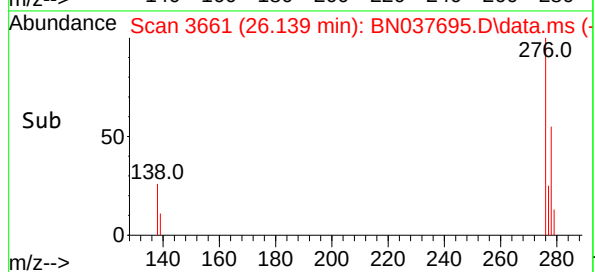
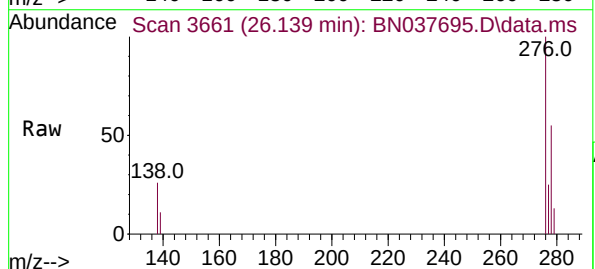
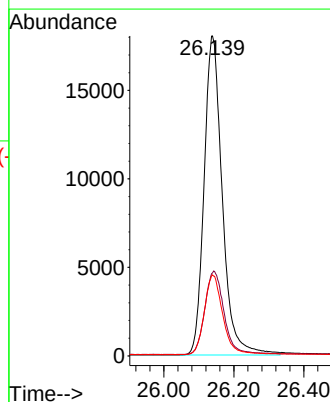
Tgt Ion:276 Resp: 65254

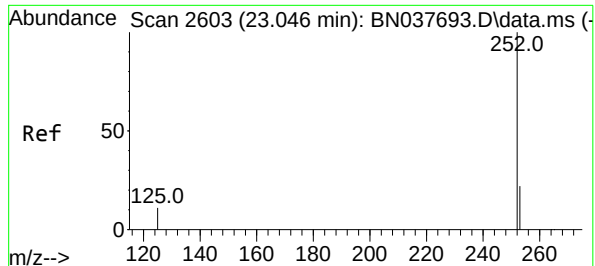
Ion Ratio Lower Upper

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

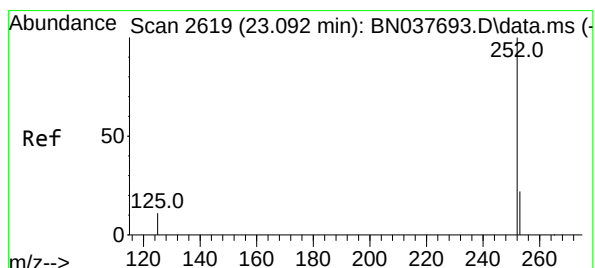
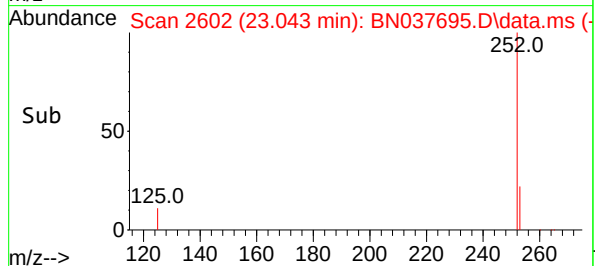
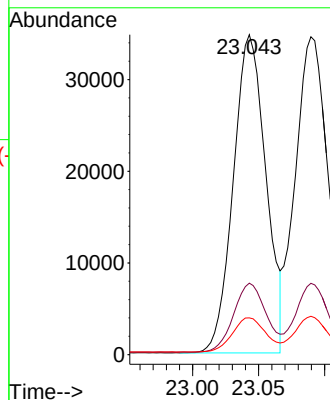
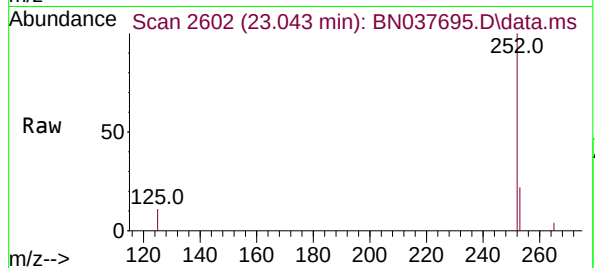
Tgt Ion:252 Resp: 59639

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

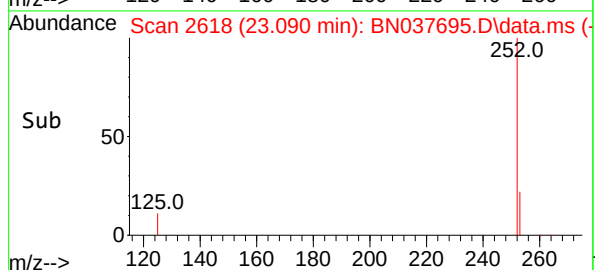
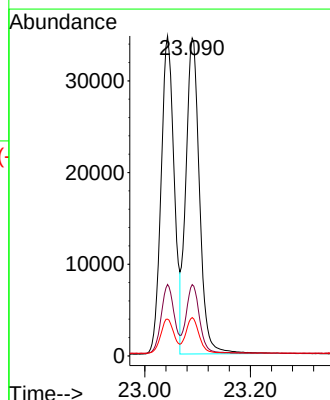
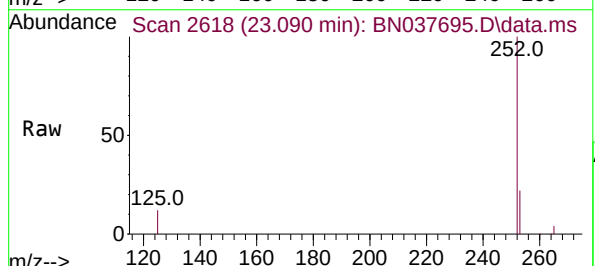
Tgt Ion:252 Resp: 62123

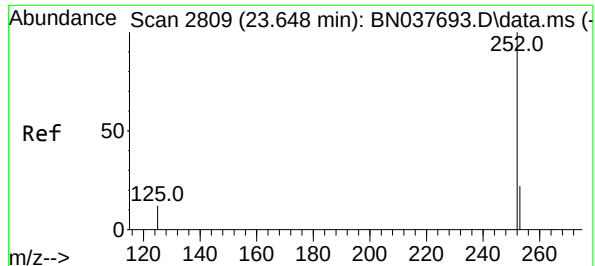
Ion Ratio Lower Upper

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# 2808

Delta R.T. -0.003 min

Lab File: BN037695.D

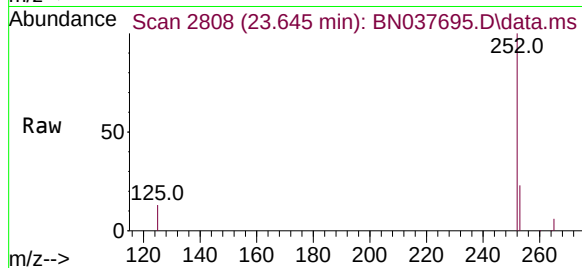
Acq: 11 Sep 2025 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



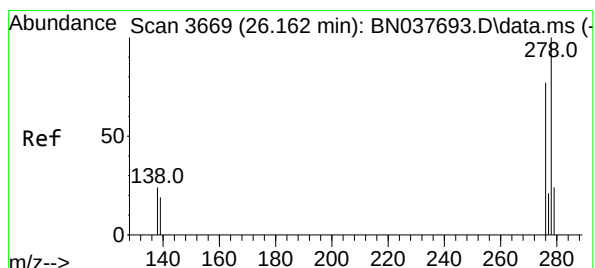
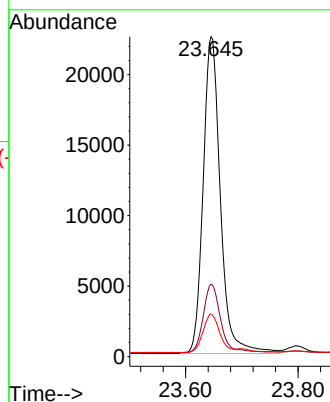
Tgt Ion:252 Resp: 47897

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

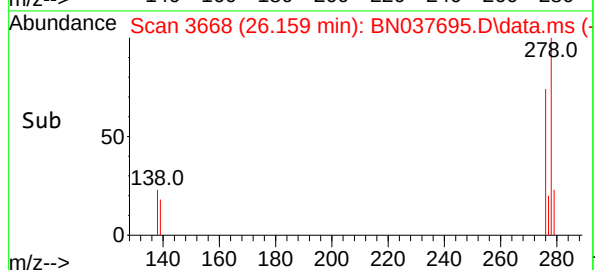
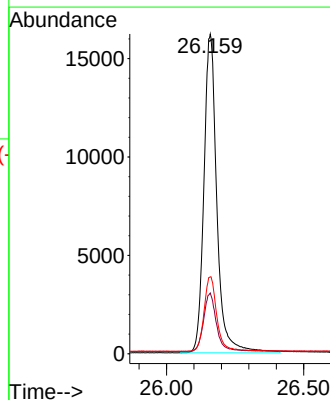
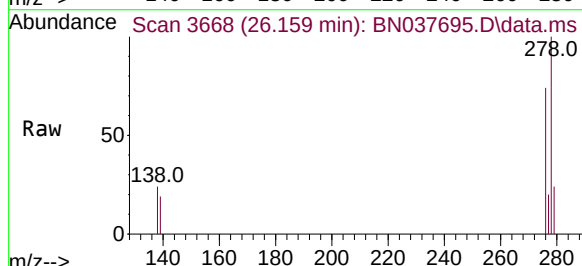
Tgt Ion:278 Resp: 53306

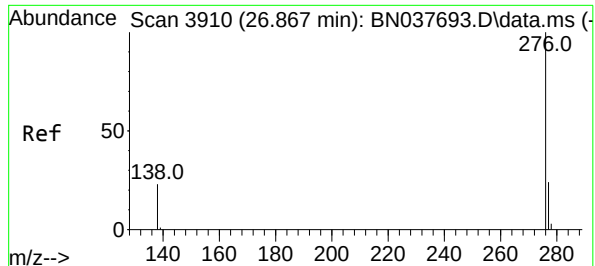
Ion Ratio Lower Upper

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

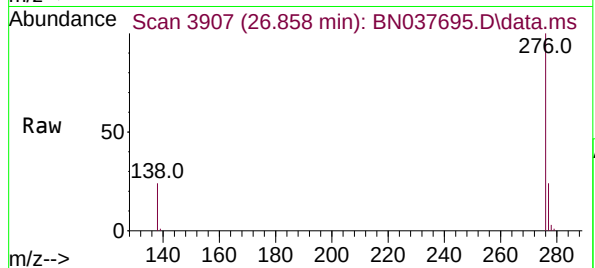
Acq: 11 Sep 2025 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



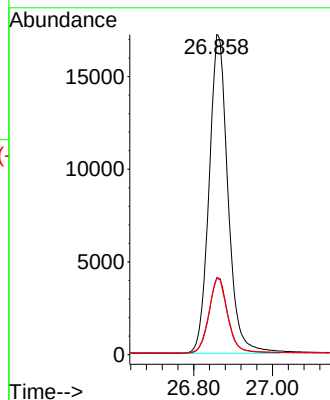
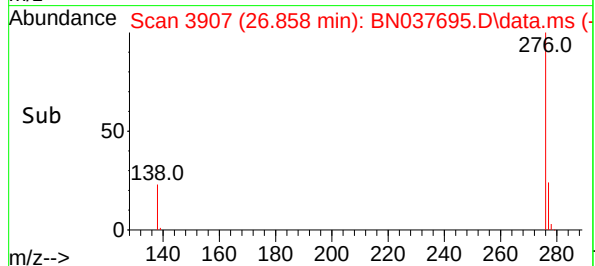
Tgt Ion:276 Resp: 57151

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

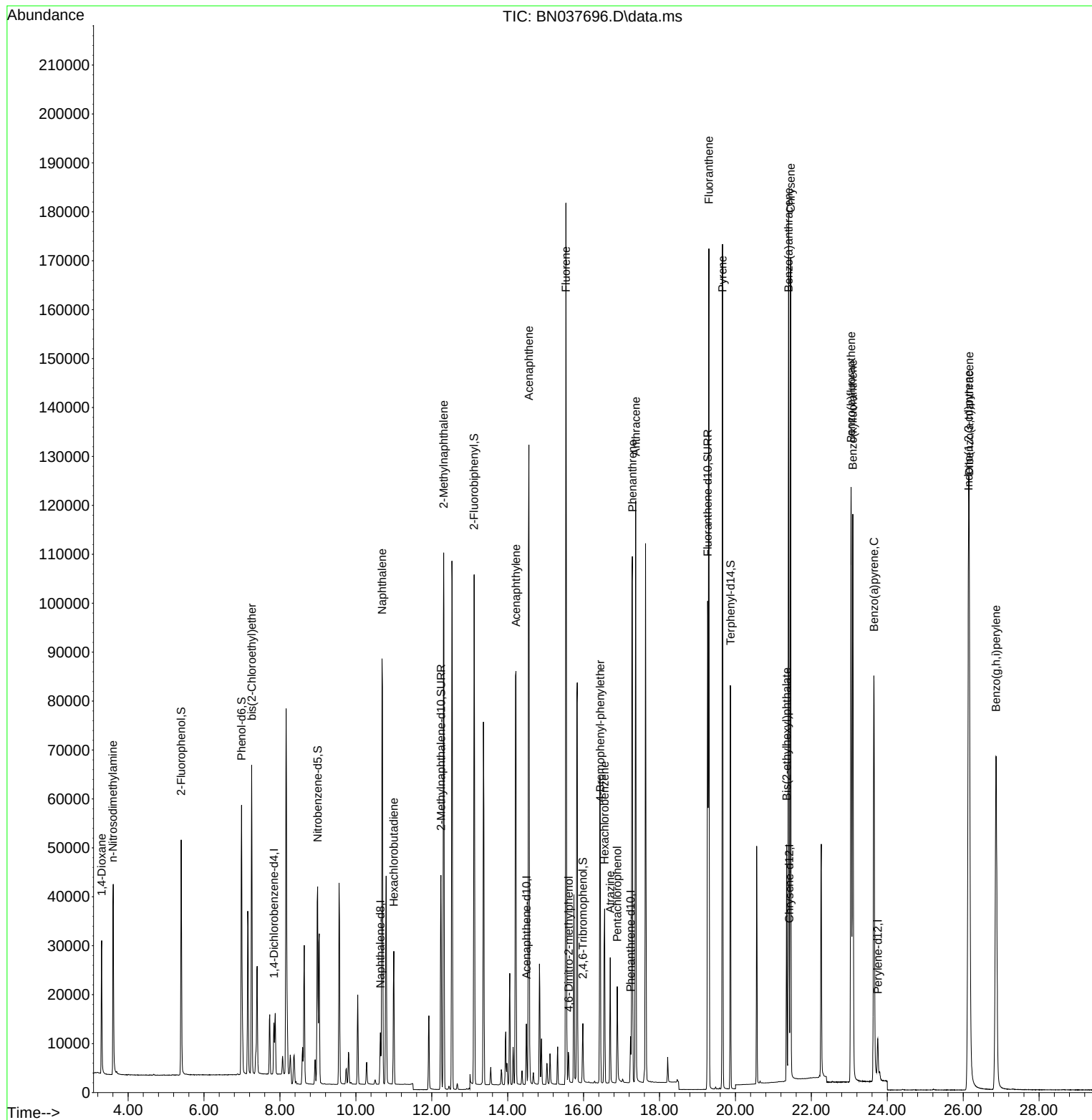
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	5084	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	13375	0.400	ng	0.00
13) Acenaphthene-d10	14.495	164	6550	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	11925	0.400	ng	0.00
29) Chrysene-d12	21.420	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						
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

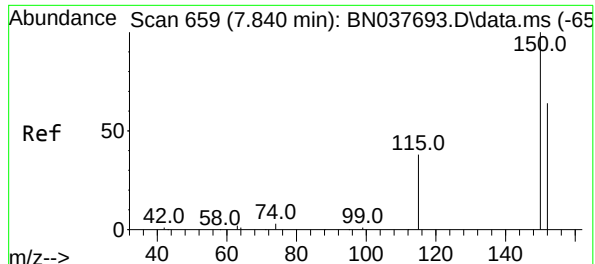
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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
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

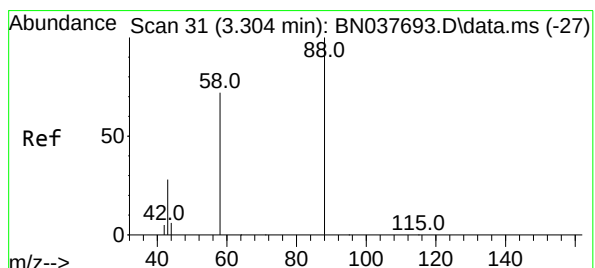
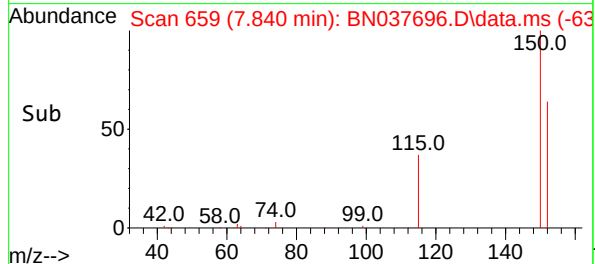
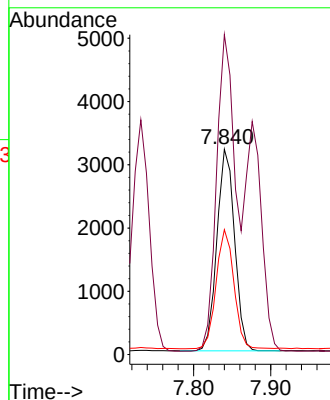
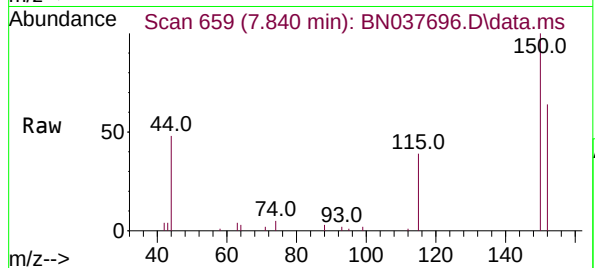




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

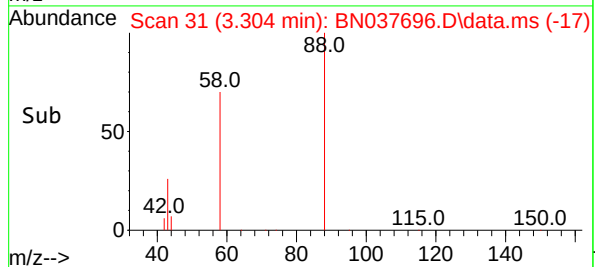
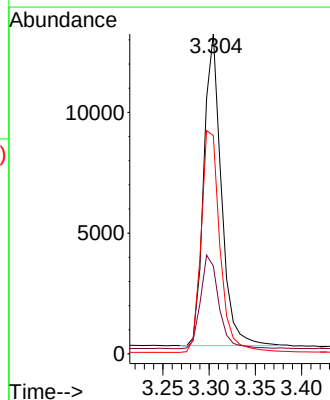
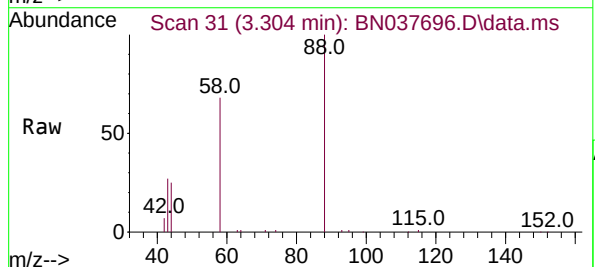
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

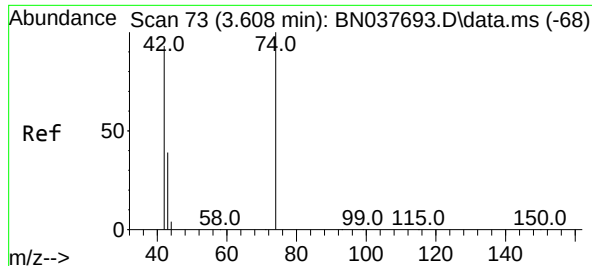
Tgt Ion:152 Resp: 5084
Ion Ratio Lower Upper
152 100
150 155.9 124.5 186.7
115 60.8 49.2 73.8



#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

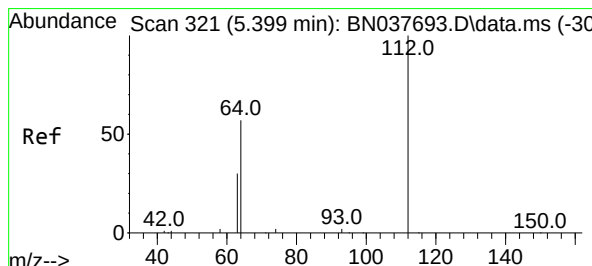
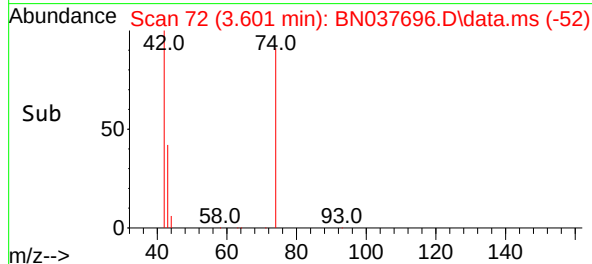
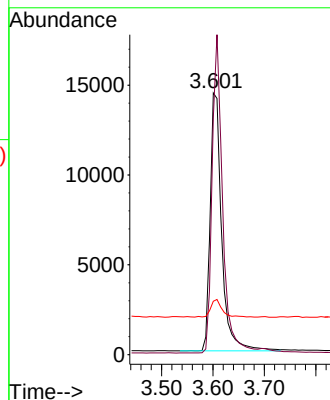
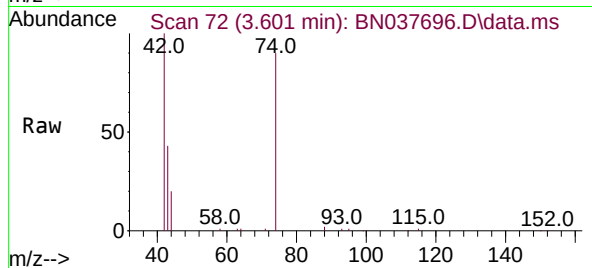




#3
n-Nitrosodimethylamine
Concen: 3.235 ng
RT: 3.601 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

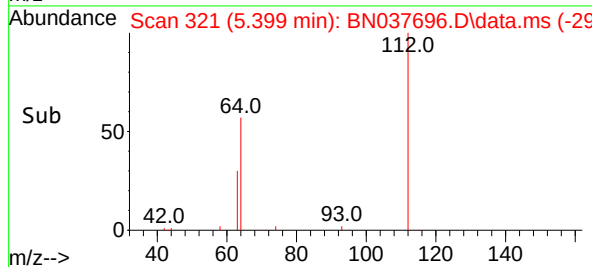
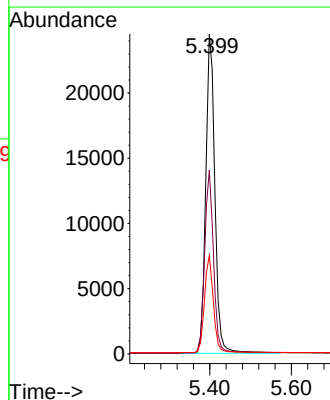
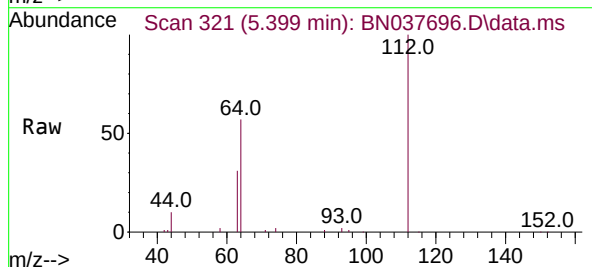
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

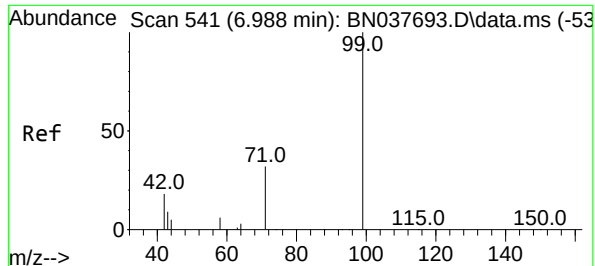
Tgt Ion: 42 Resp: 22382
Ion Ratio Lower Upper
42 100
74 112.2 86.0 129.0
44 6.7 8.4 12.6#



#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

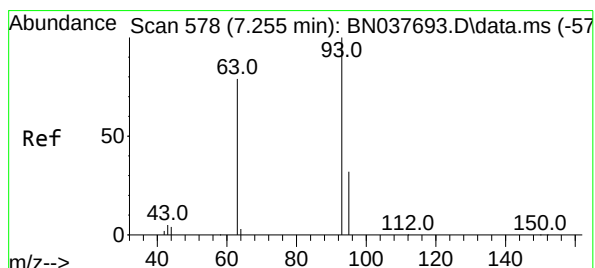
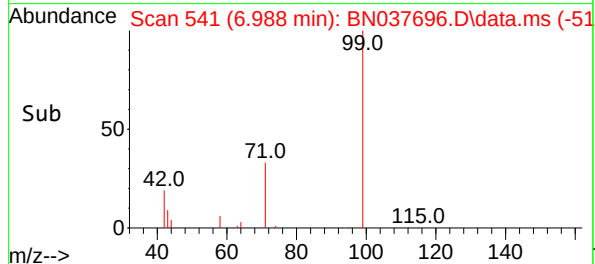
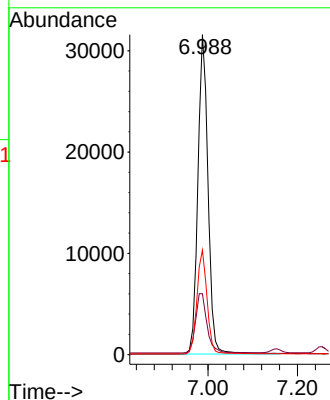
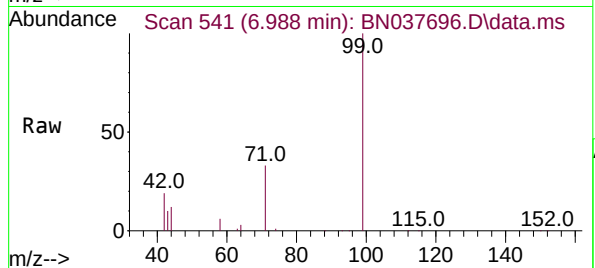




#5
Phenol-d6
Concen: 3.291 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

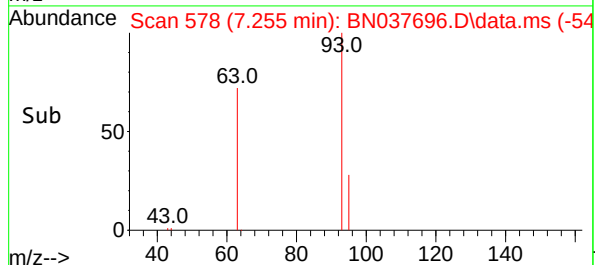
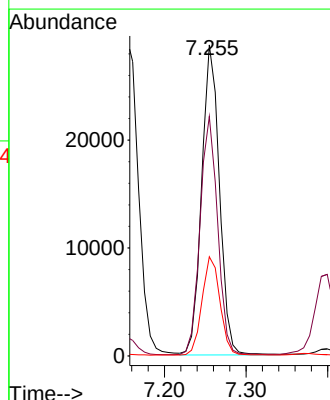
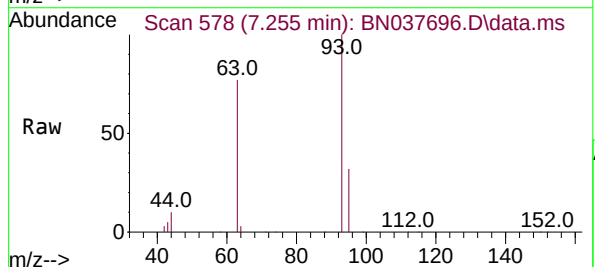
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

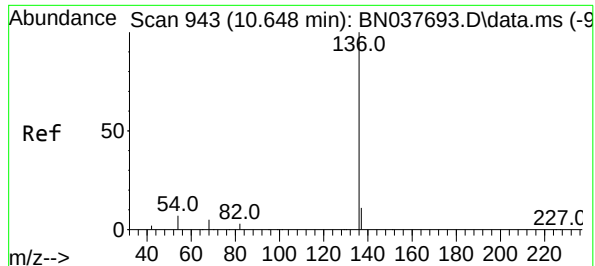
Tgt Ion: 99 Resp: 49810
Ion Ratio Lower Upper
99 100
42 21.0 16.6 24.8
71 32.5 26.7 40.1



#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

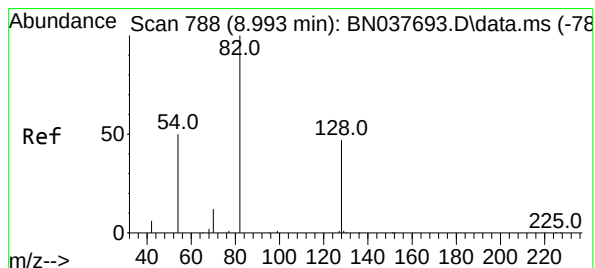
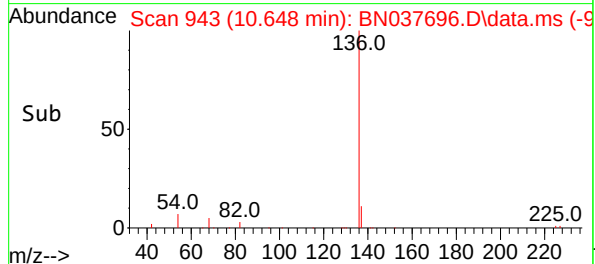
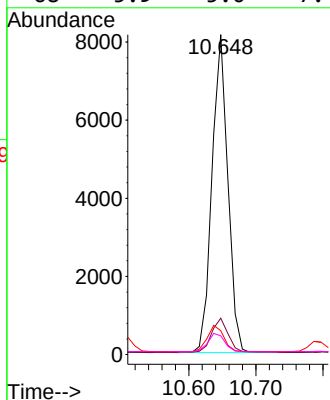
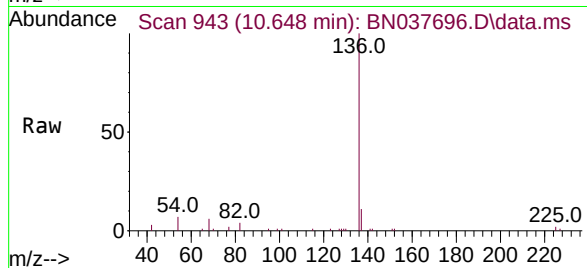




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

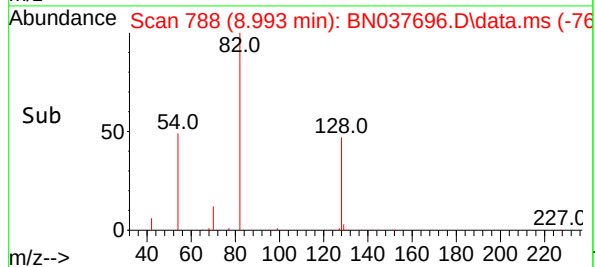
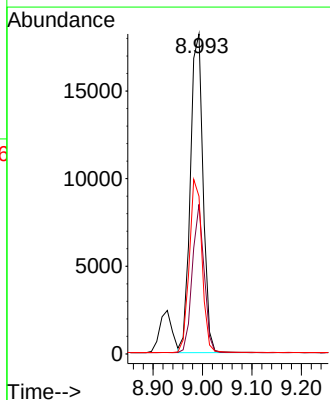
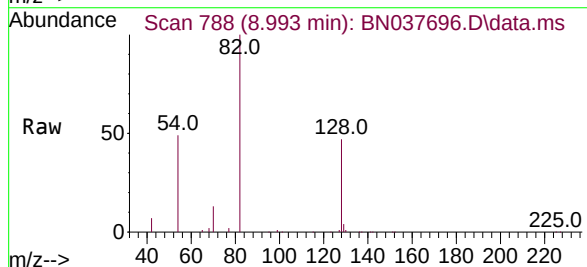
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

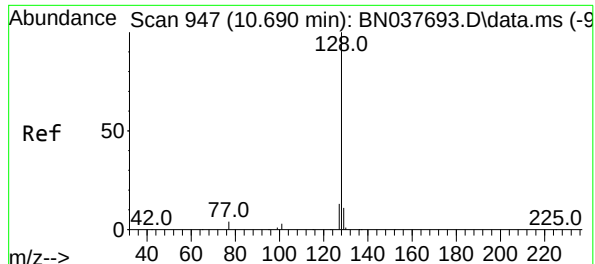
Tgt Ion:	136	Resp:	13375
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	7.5	6.3	9.5
68	5.9	5.0	7.4



#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

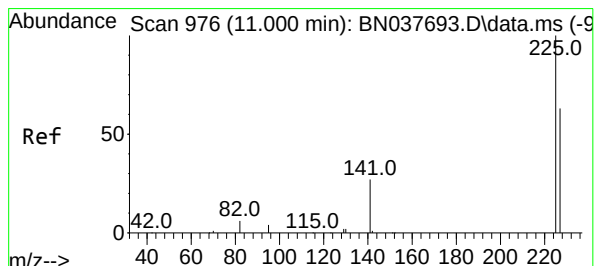
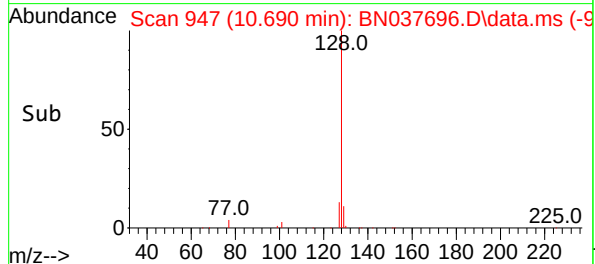
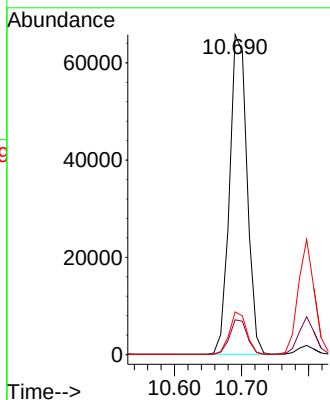
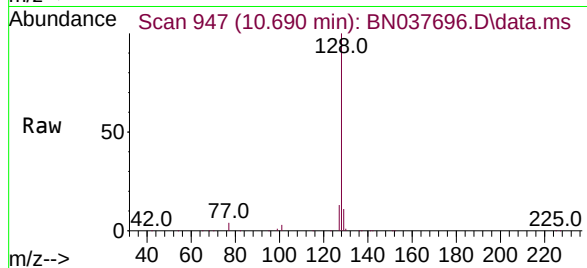




#9
Naphthalene
Concen: 3.264 ng
RT: 10.690 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

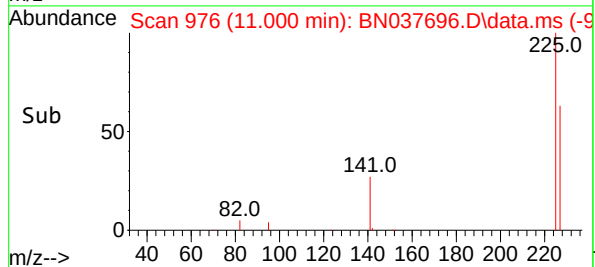
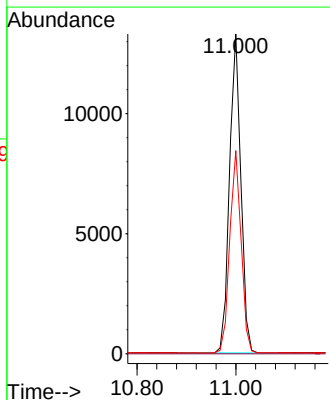
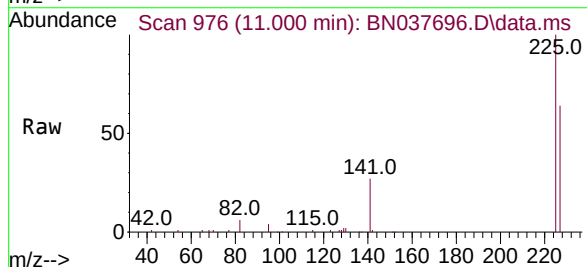
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

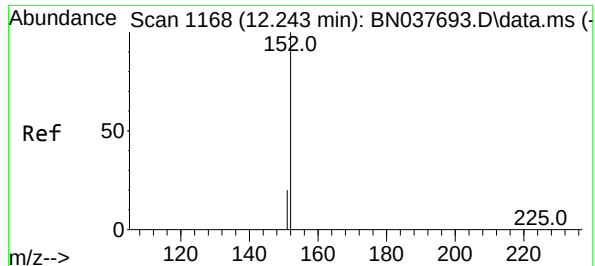
Tgt Ion:128 Resp: 119338
Ion Ratio Lower Upper
128 100
129 10.9 9.1 13.7
127 13.3 10.9 16.3



#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

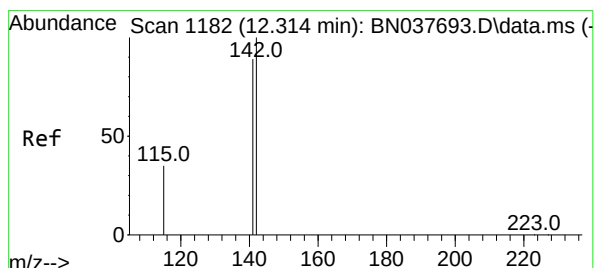
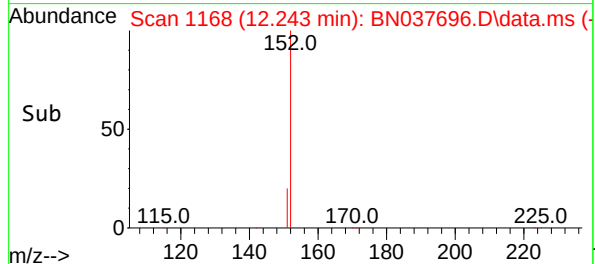
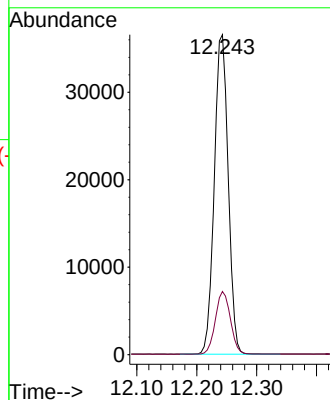
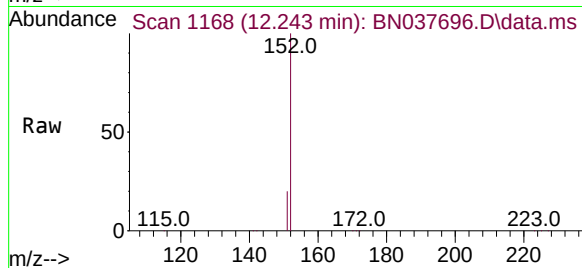




#11
2-Methylnaphthalene-d10
Concen: 3.319 ng
RT: 12.243 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

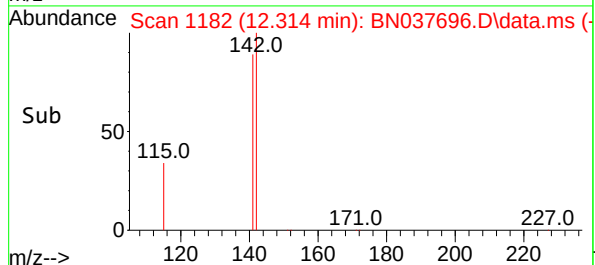
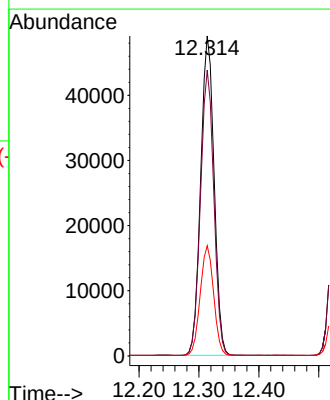
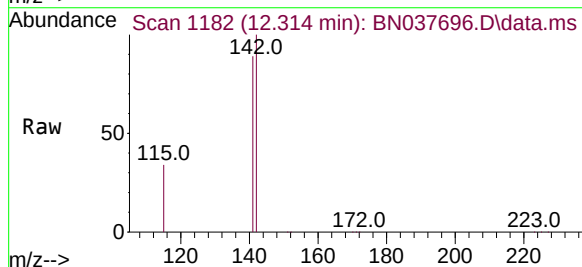
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

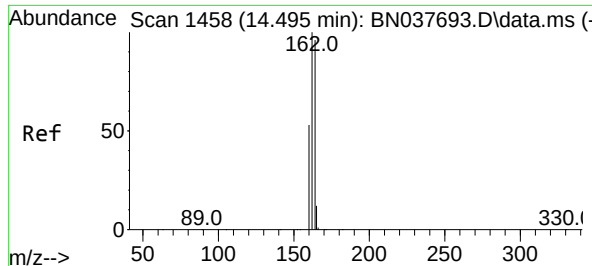
Tgt Ion:152 Resp: 58810
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6



#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

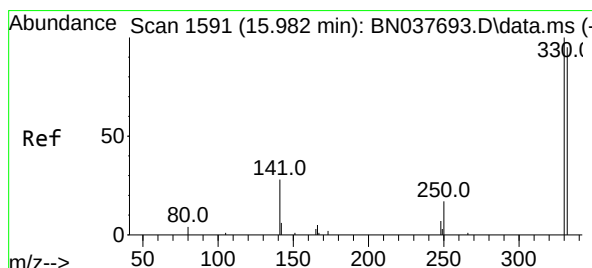
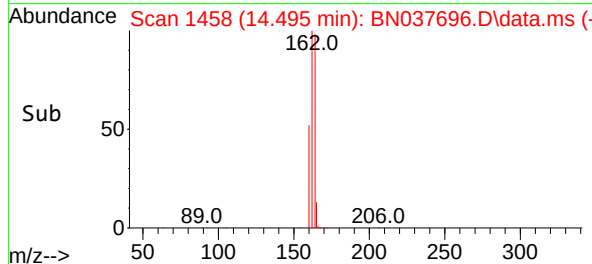
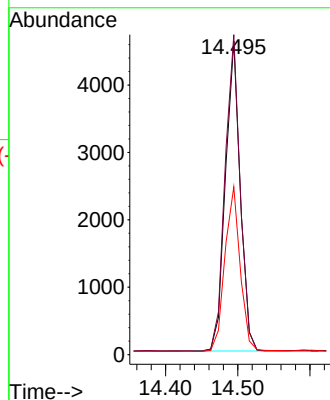
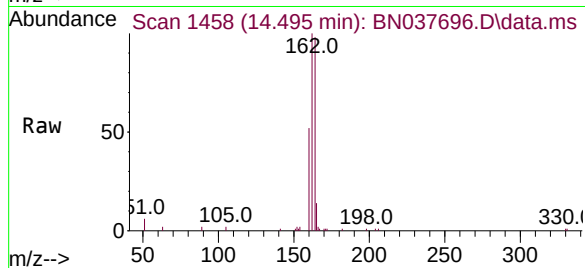




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

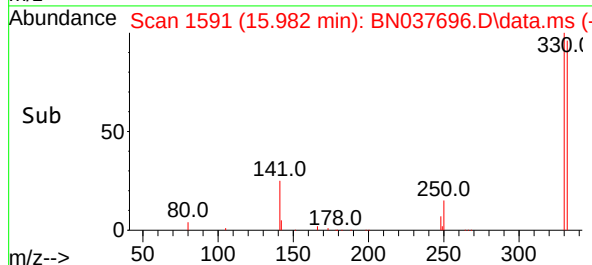
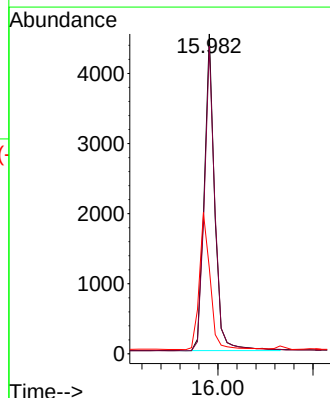
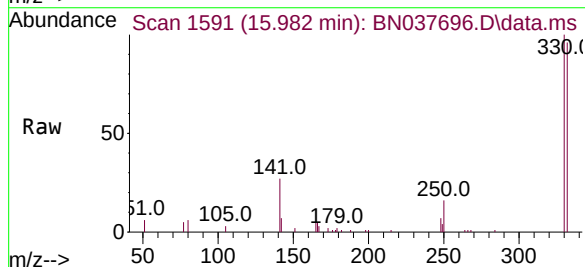
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

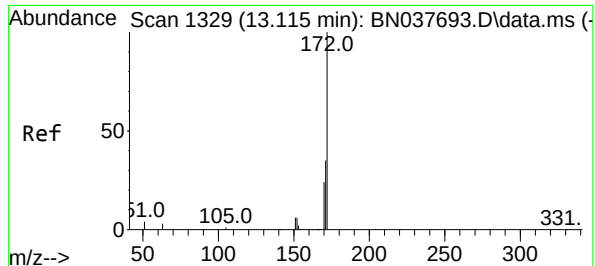
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.0	83.1	124.7
160	53.5	44.3	66.5



#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	Ratio	Lower	Upper
330	100		
332	97.3	75.3	112.9
141	44.8	35.0	52.4

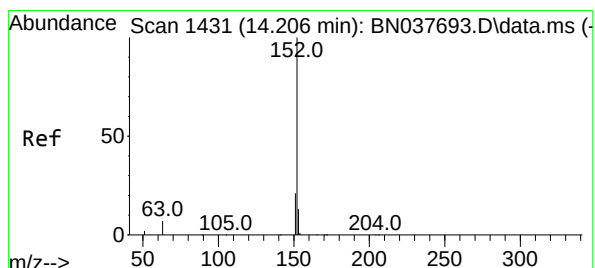
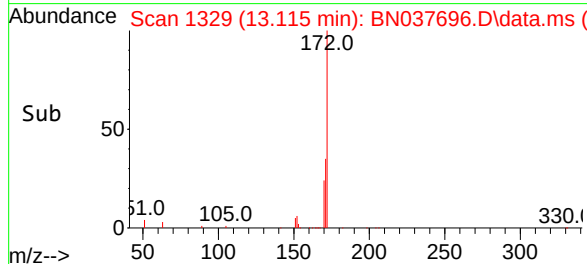
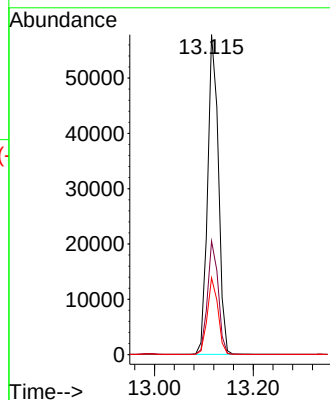
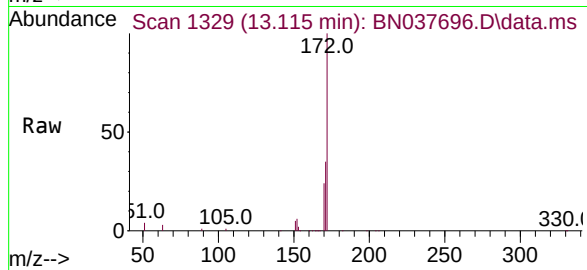




#15
2-Fluorobiphenyl
Concen: 3.202 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

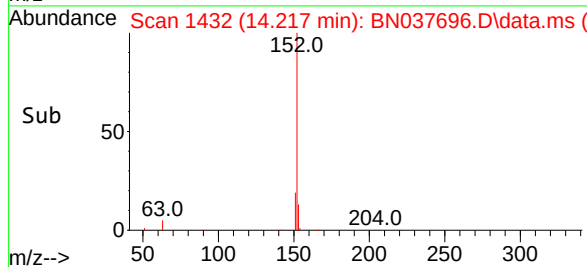
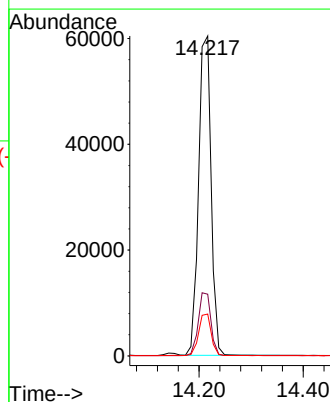
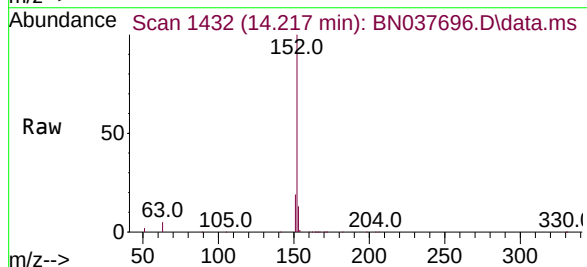
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

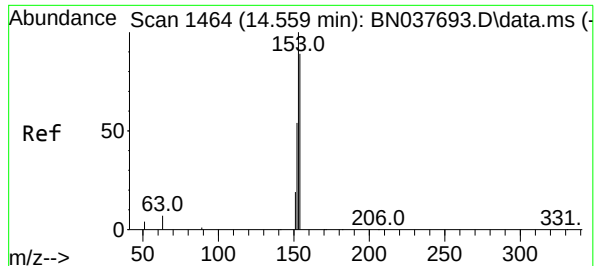
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.6	43.0
170	24.0	19.8	29.8



#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	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

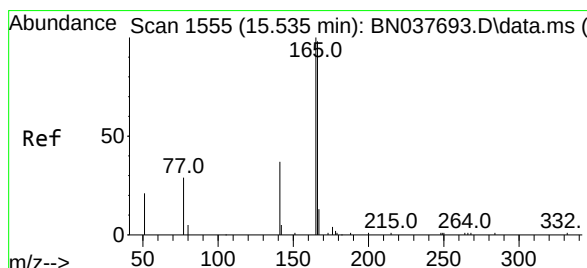
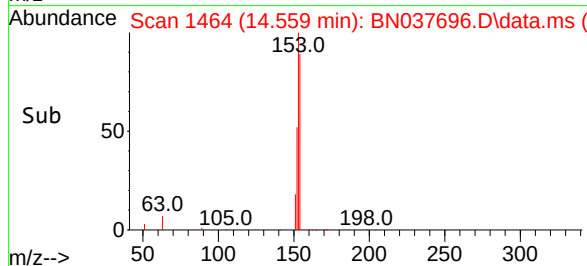
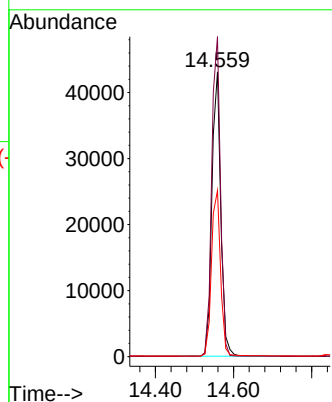
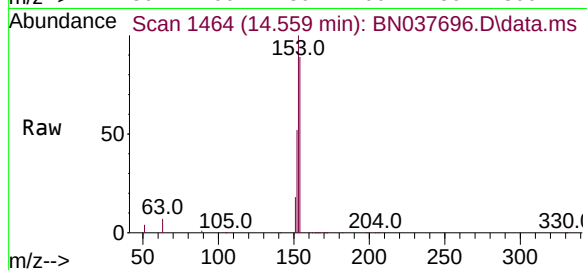
Tgt Ion:154 Resp: 67901

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

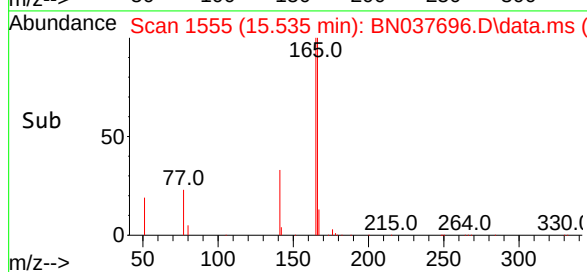
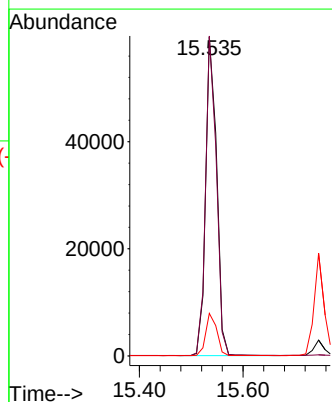
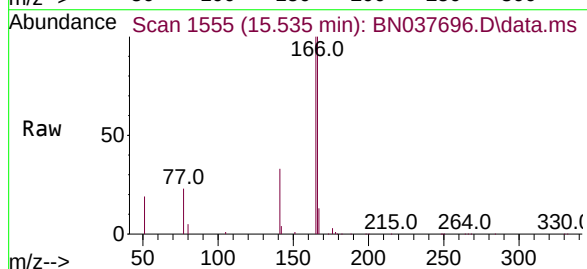
Tgt Ion:166 Resp: 85576

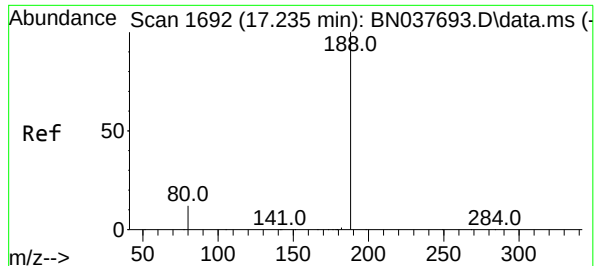
Ion Ratio Lower Upper

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

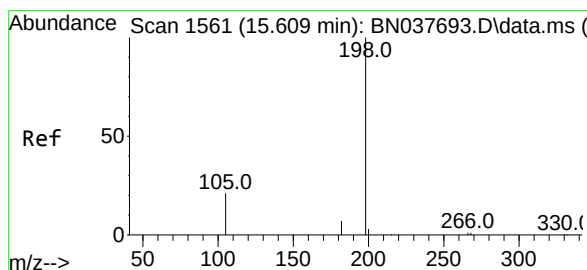
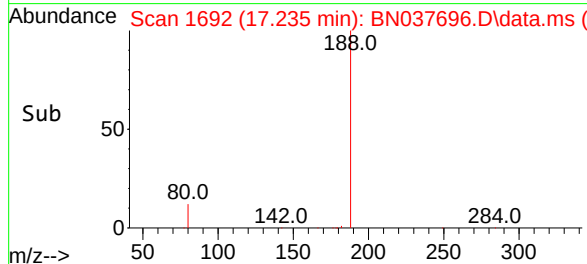
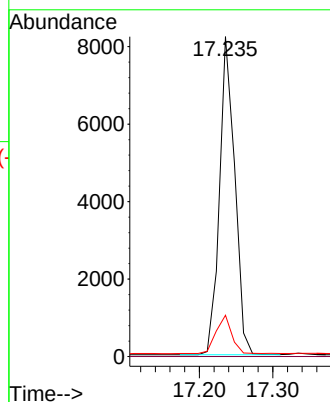
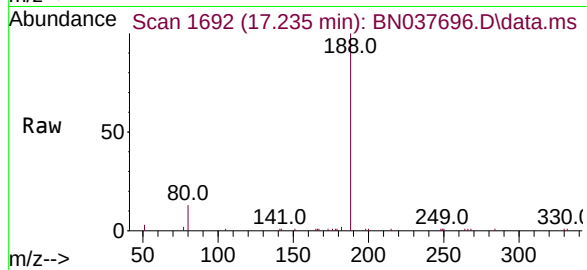
Tgt Ion:188 Resp: 11925

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

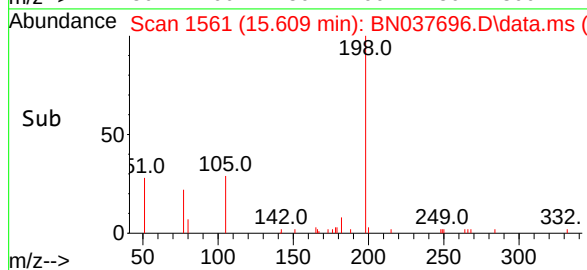
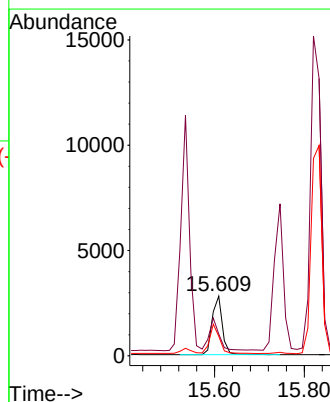
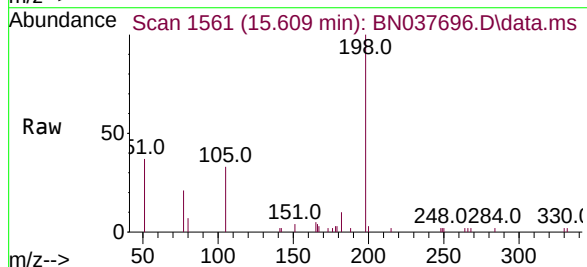
Tgt Ion:198 Resp: 4427

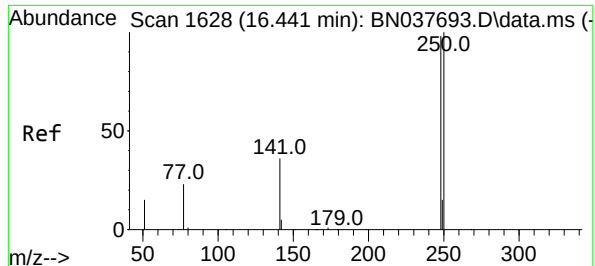
Ion Ratio Lower Upper

198 100

51 36.6 95.1 142.7#

105 32.9 53.8 80.6#

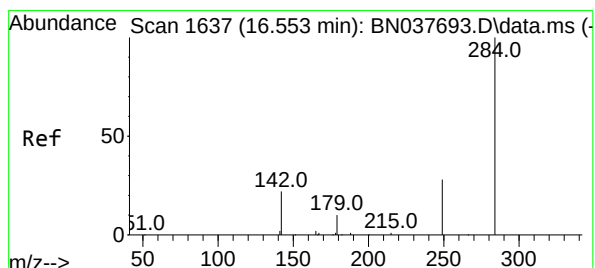
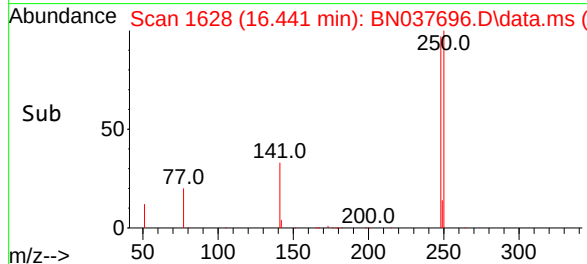
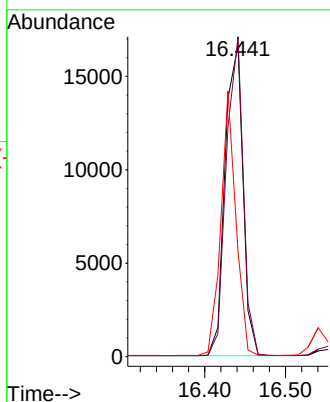
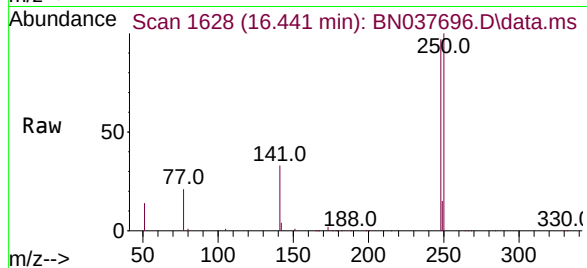




#21
4-Bromophenyl-phenylether
Concen: 3.300 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

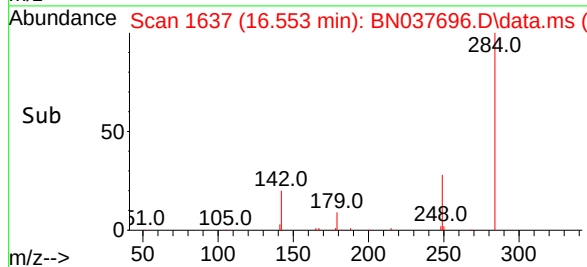
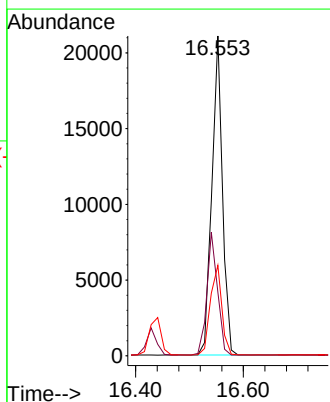
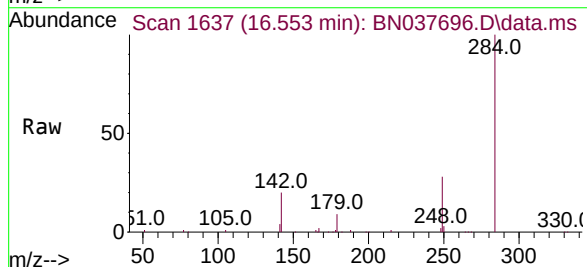
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

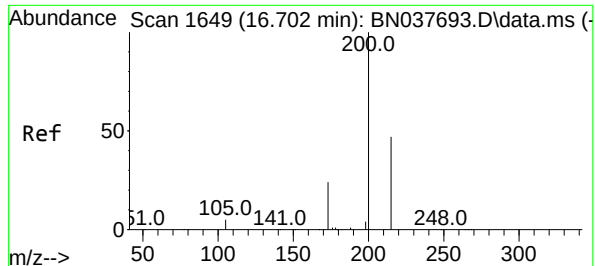
Tgt Ion	Ratio	Lower	Upper
248	100		
250	102.8	81.5	122.3
141	33.7	30.8	46.2



#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	Ratio	Lower	Upper
284	100		
142	38.5	30.9	46.3
249	30.4	24.8	37.2

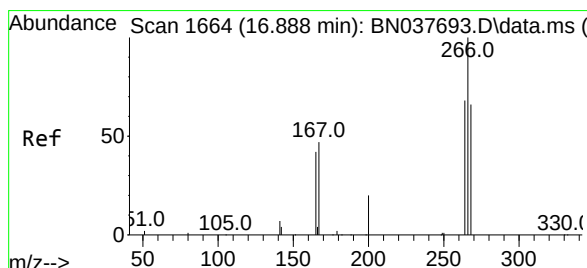
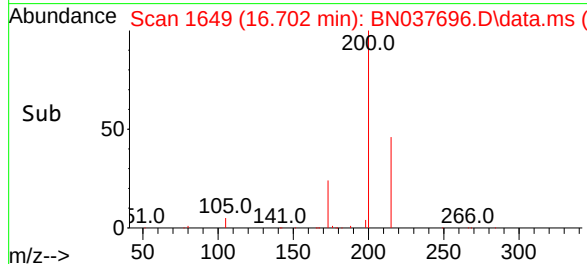
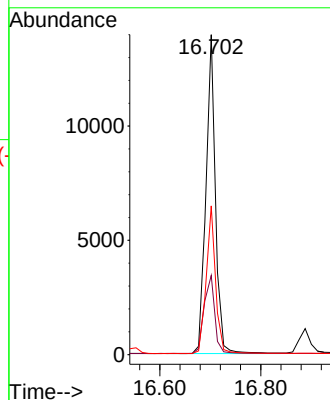
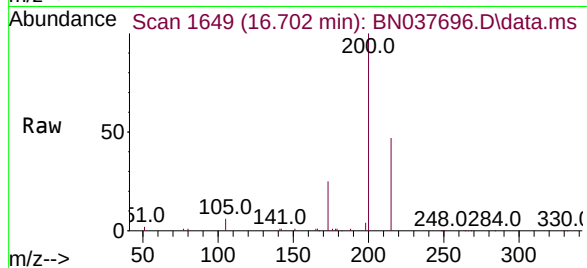




#23
Atrazine
Concen: 3.670 ng
RT: 16.702 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

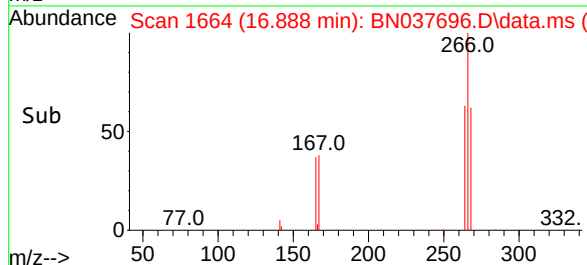
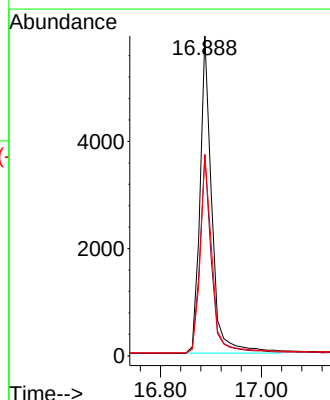
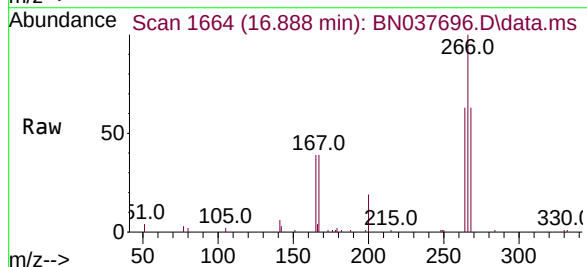
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

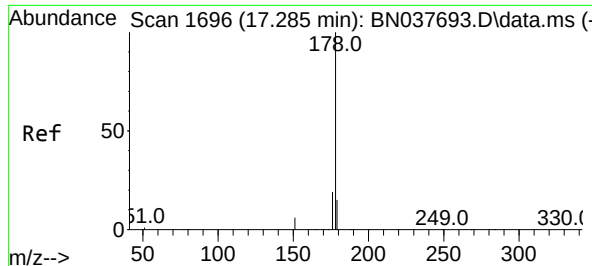
Tgt Ion	Ratio	Lower	Upper
200	100		
173	24.7	21.4	32.2
215	46.5	39.2	58.8



#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

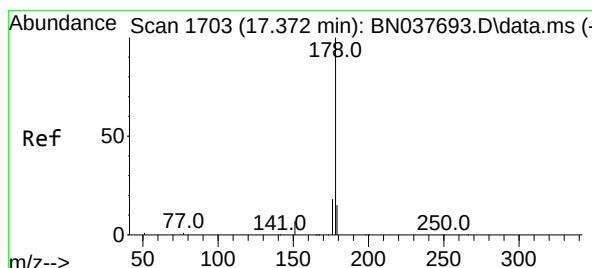
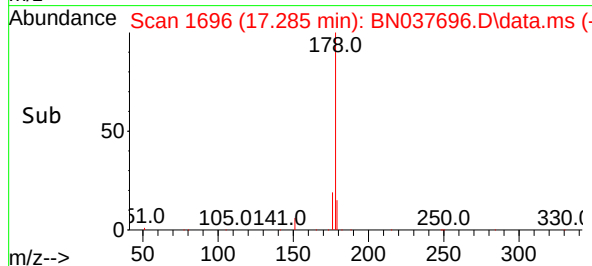
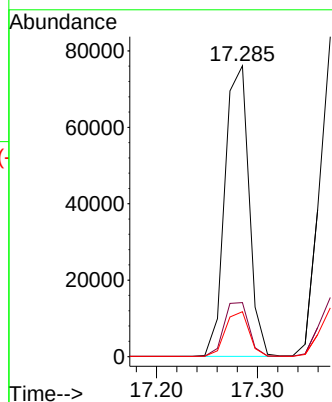
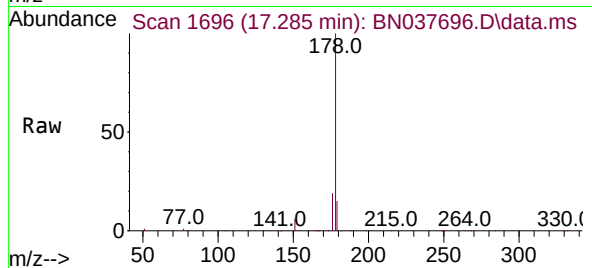
Tgt Ion:178 Resp: 125980

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

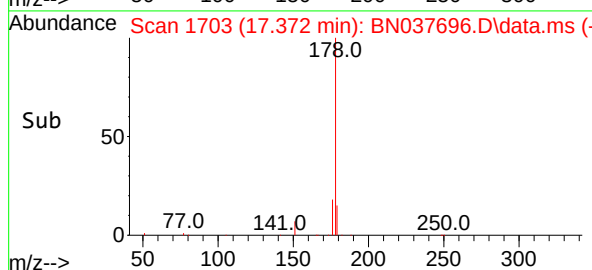
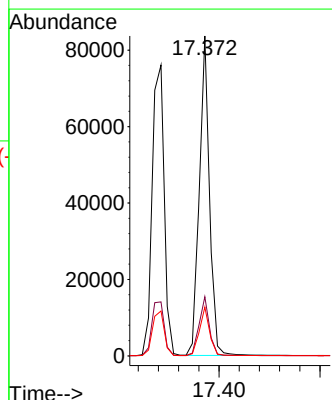
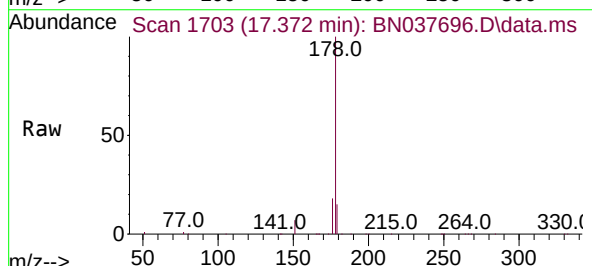
Tgt Ion:178 Resp: 116443

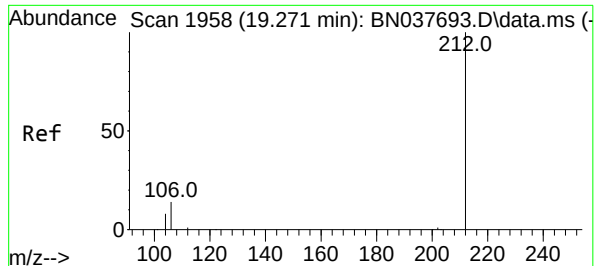
Ion Ratio Lower Upper

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

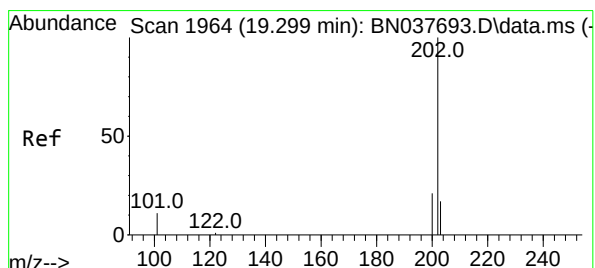
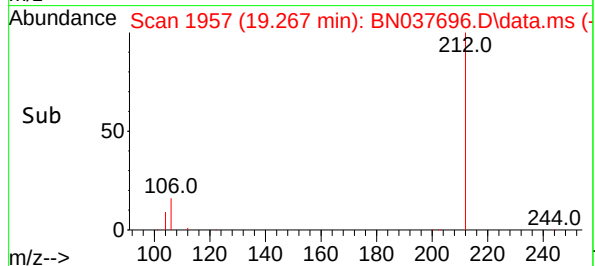
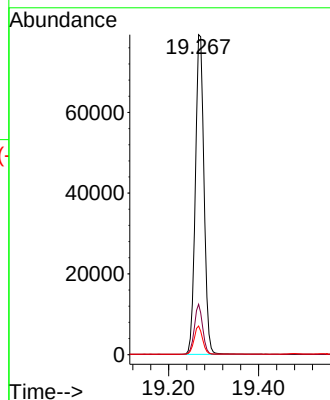
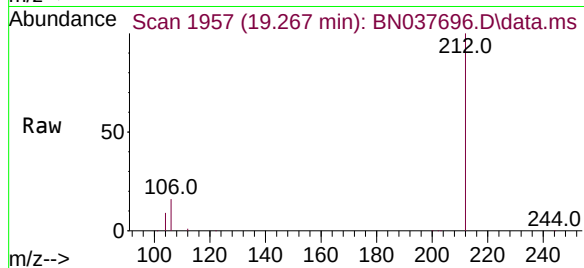
Tgt Ion:212 Resp: 105719

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

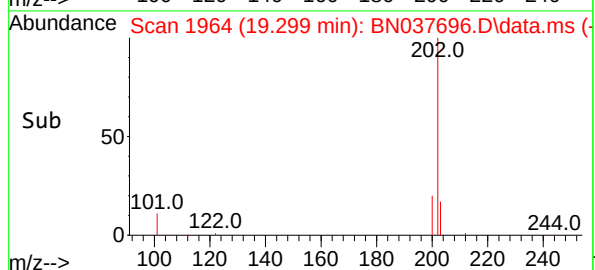
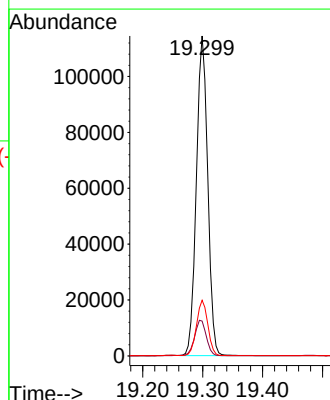
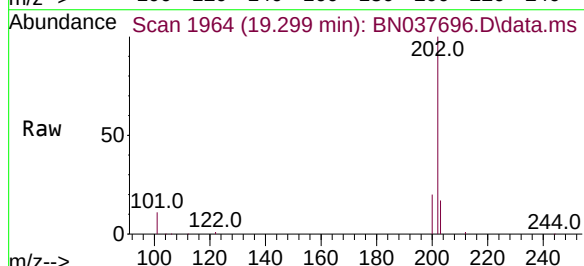
Tgt Ion:202 Resp: 150569

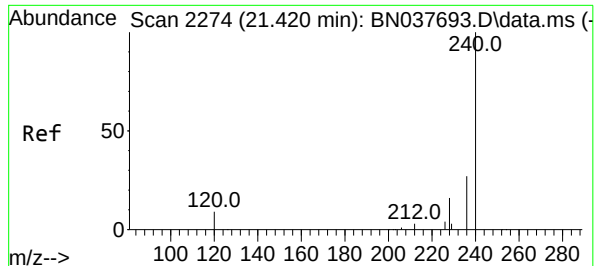
Ion Ratio Lower Upper

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

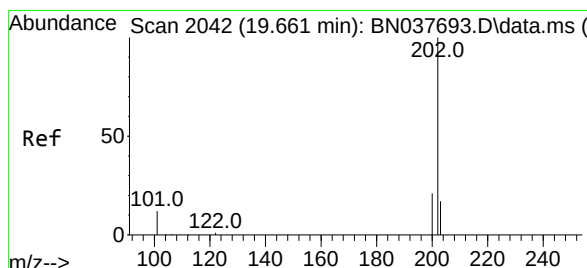
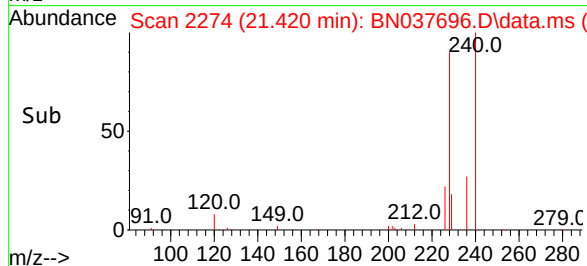
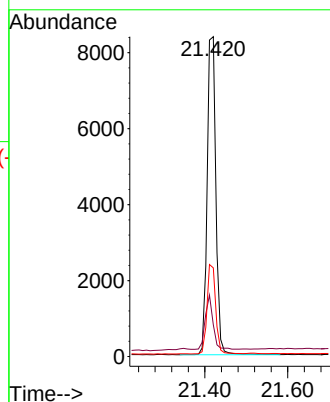
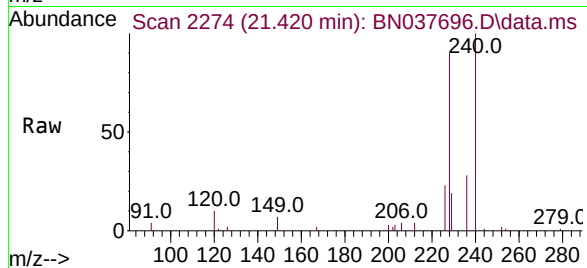
Tgt Ion:240 Resp: 12141

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

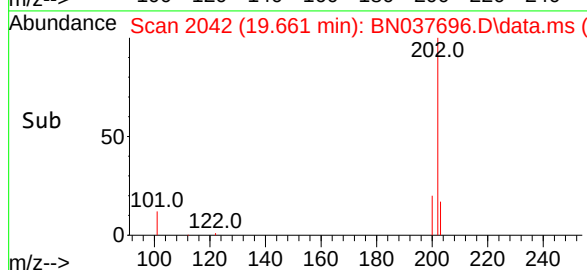
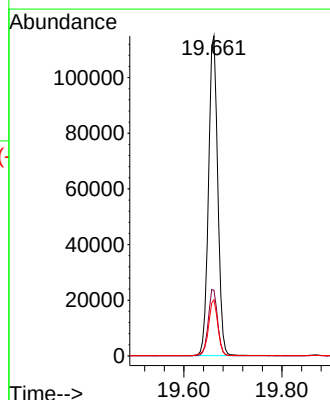
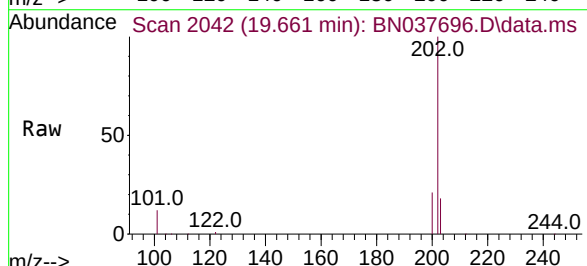
Tgt Ion:202 Resp: 149814

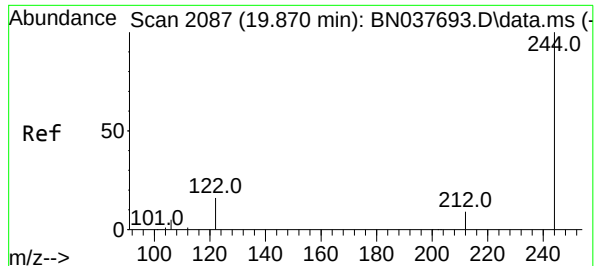
Ion Ratio Lower Upper

202 100

200 20.9 16.8 25.2

203 17.7 14.3 21.5

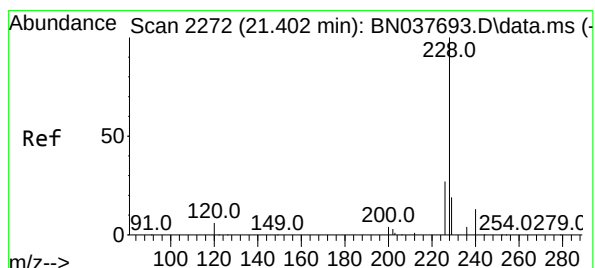
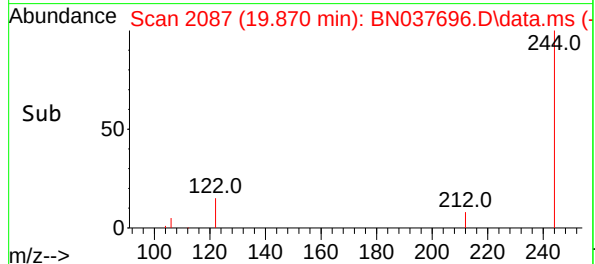
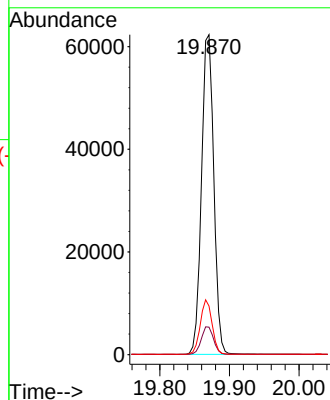
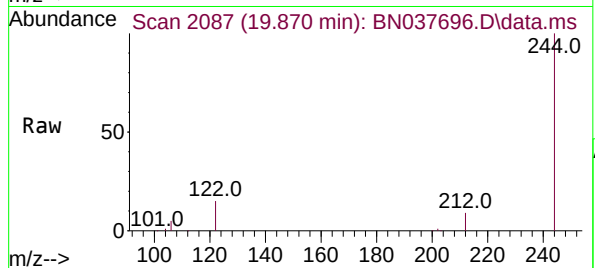




#31
Terphenyl-d14
Concen: 3.090 ng
RT: 19.870 min Scan# 2087
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

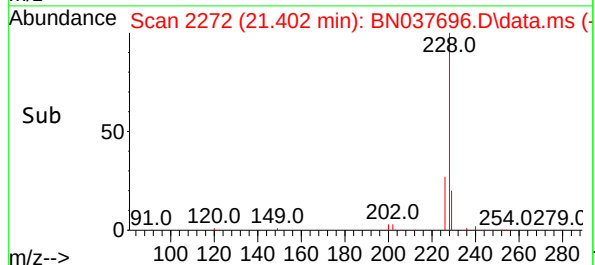
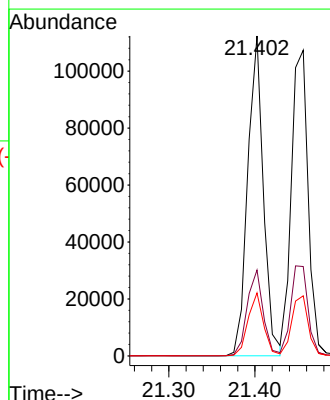
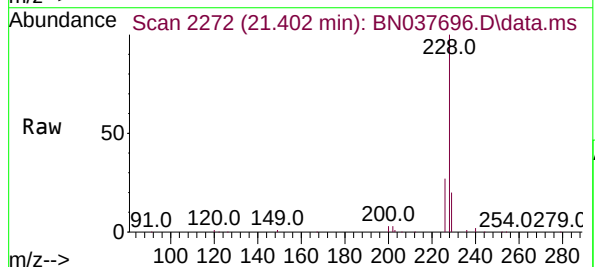
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

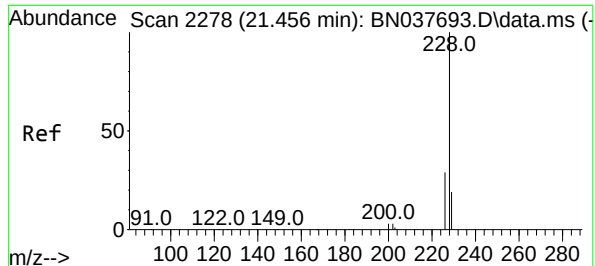
Tgt Ion:244 Resp: 76156
Ion Ratio Lower Upper
244 100
212 8.6 7.5 11.3
122 15.2 13.2 19.8



#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

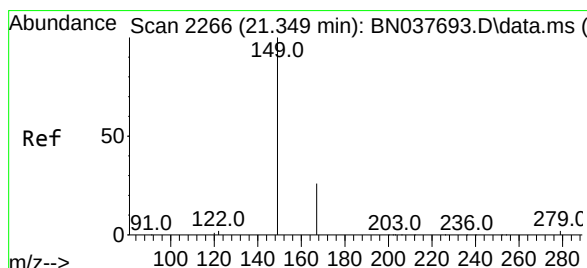
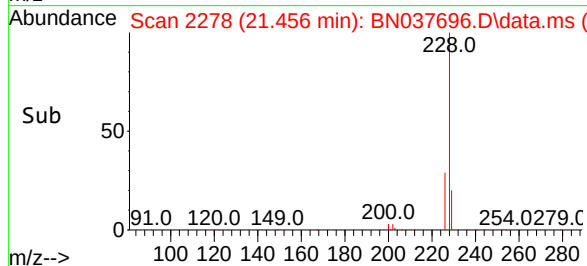
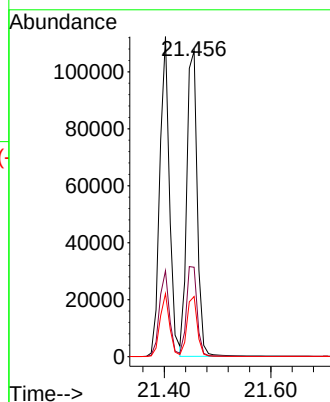
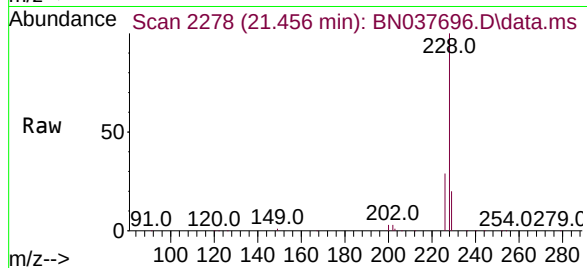
Tgt Ion:228 Resp: 146238

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

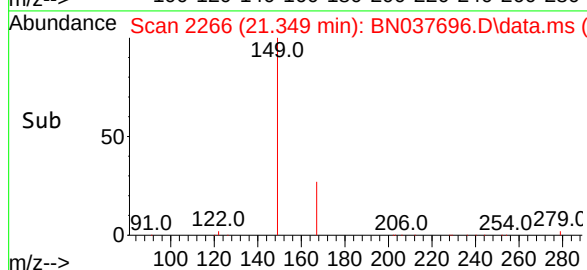
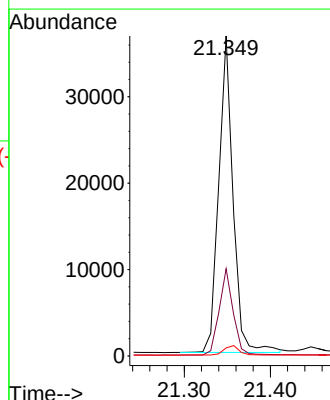
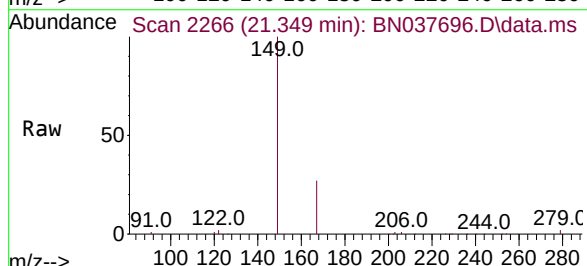
Tgt Ion:149 Resp: 42504

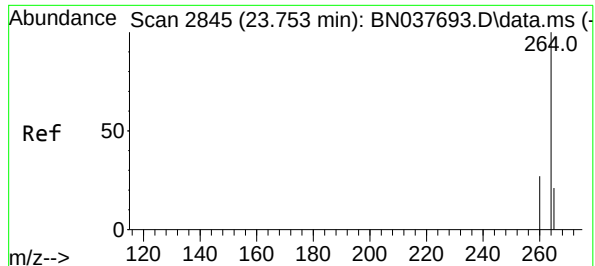
Ion Ratio Lower Upper

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# 2845

Delta R.T. -0.003 min

Lab File: BN037696.D

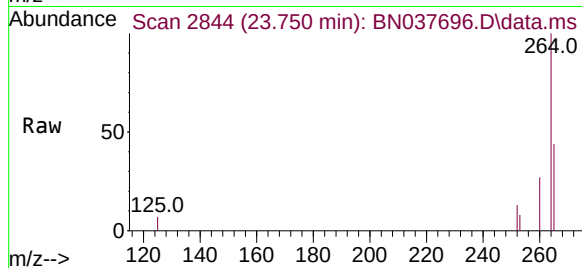
Acq: 11 Sep 2025 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



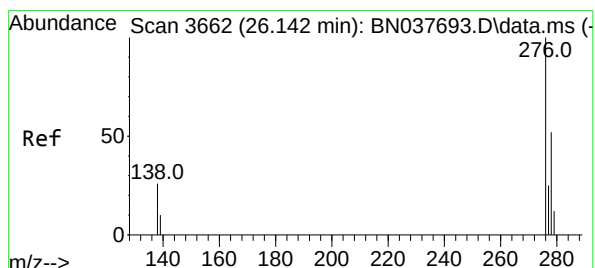
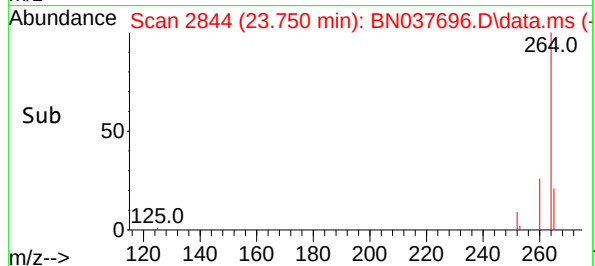
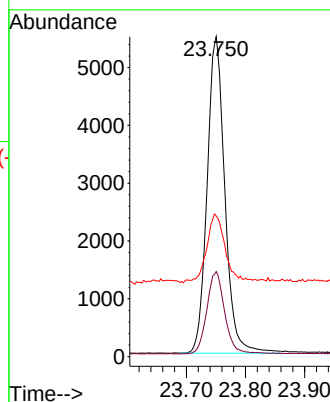
Tgt Ion:264 Resp: 11403

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

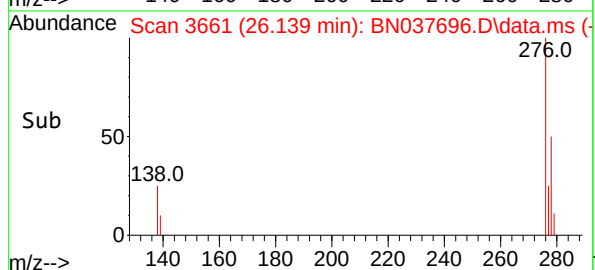
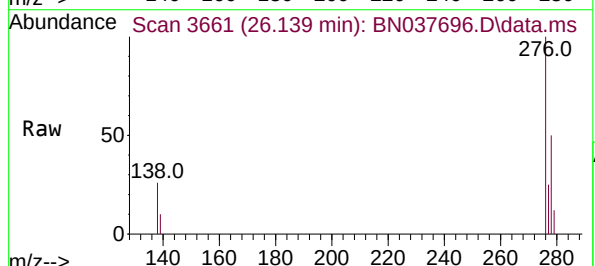
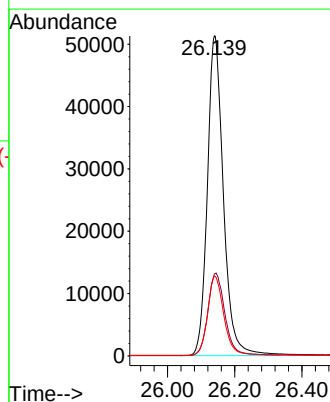
Tgt Ion:276 Resp: 170120

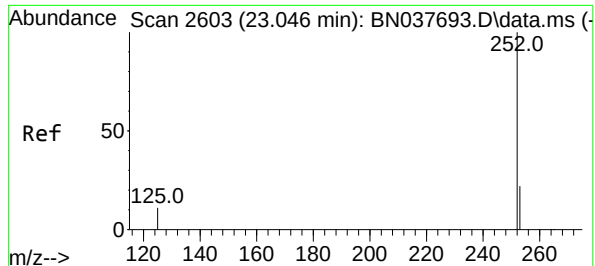
Ion Ratio Lower Upper

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

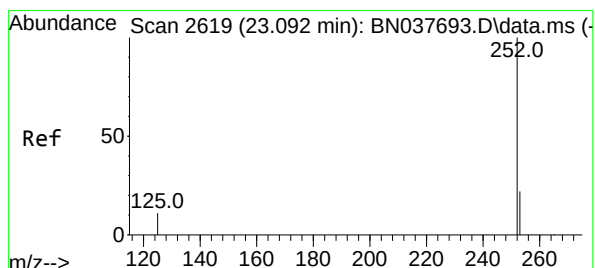
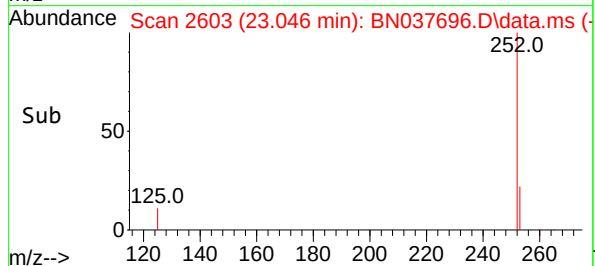
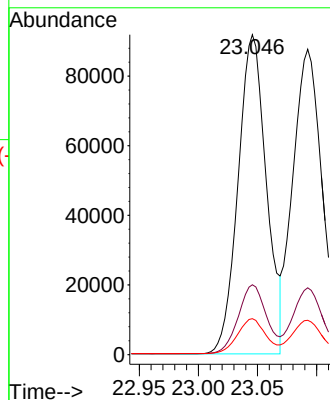
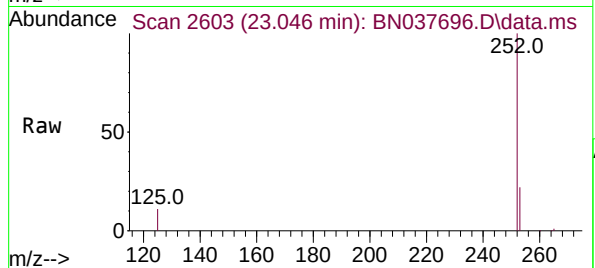
Tgt Ion:252 Resp: 152726

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

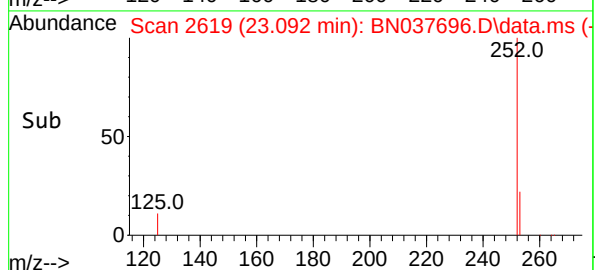
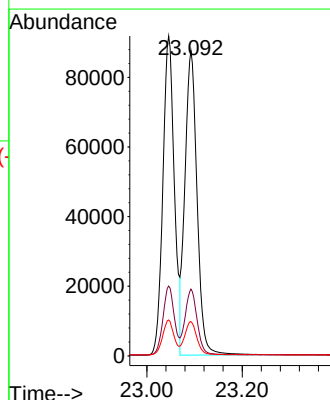
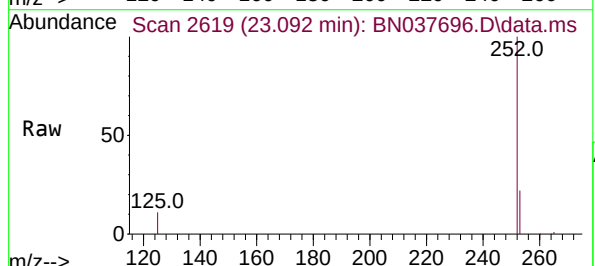
Tgt Ion:252 Resp: 154690

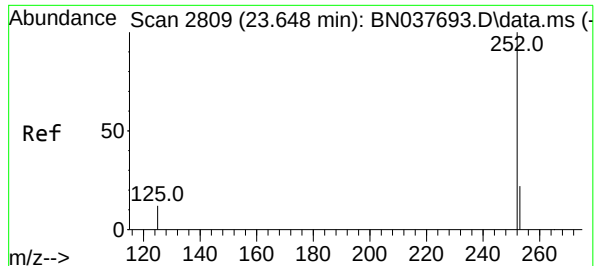
Ion Ratio Lower Upper

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

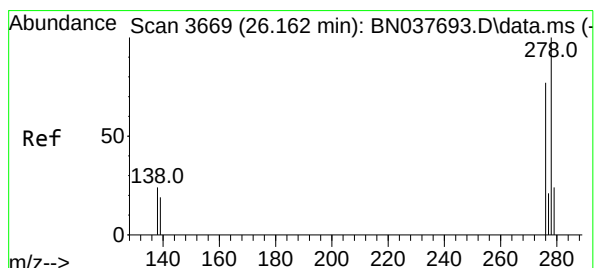
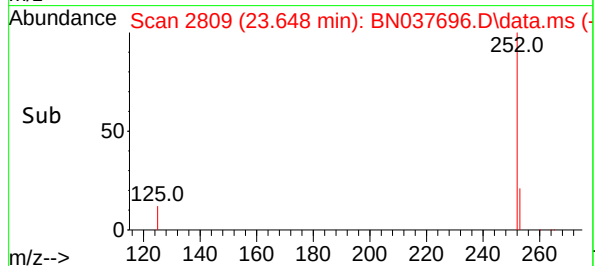
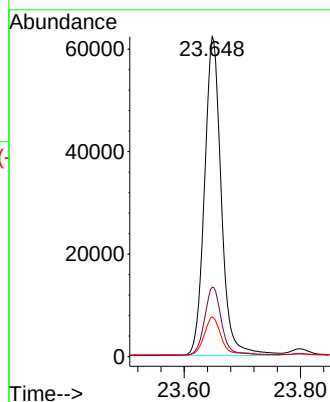
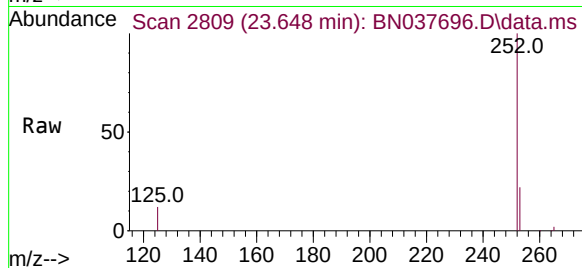
Tgt Ion:252 Resp: 124741

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

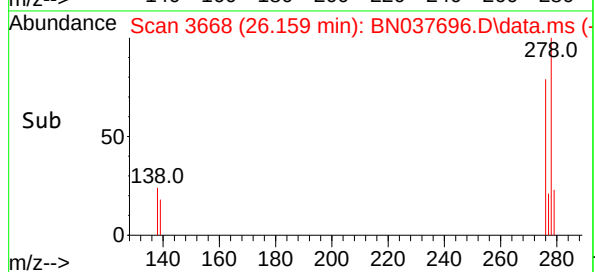
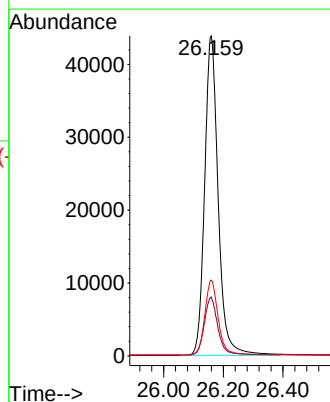
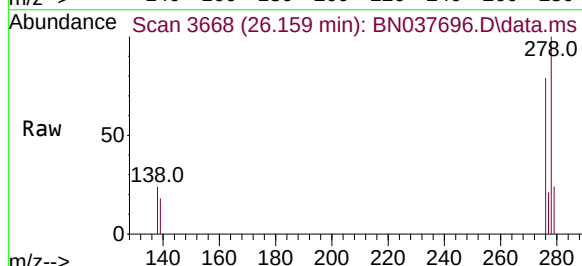
Tgt Ion:278 Resp: 138597

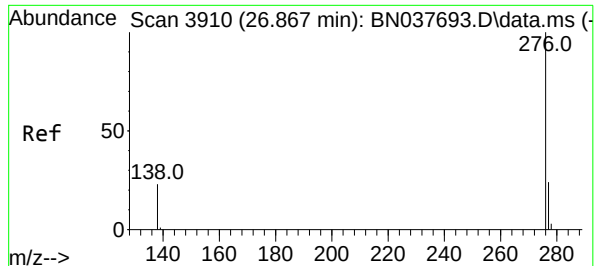
Ion Ratio Lower Upper

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# 3910

Delta R.T. -0.003 min

Lab File: BN037696.D

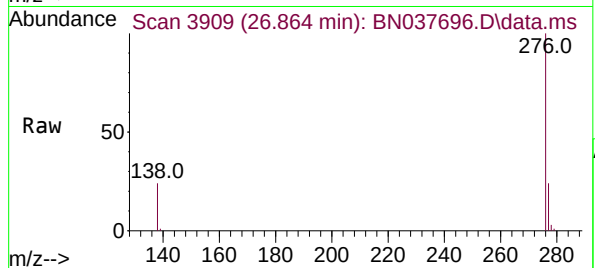
Acq: 11 Sep 2025 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



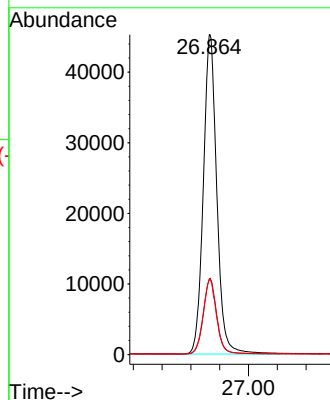
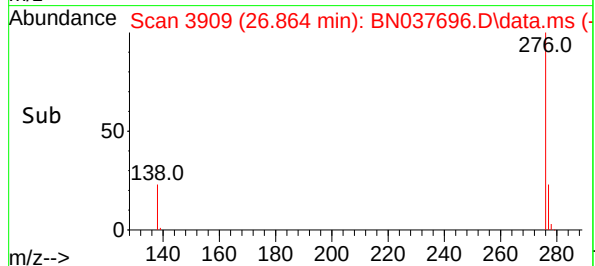
Tgt Ion:276 Resp: 146601

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

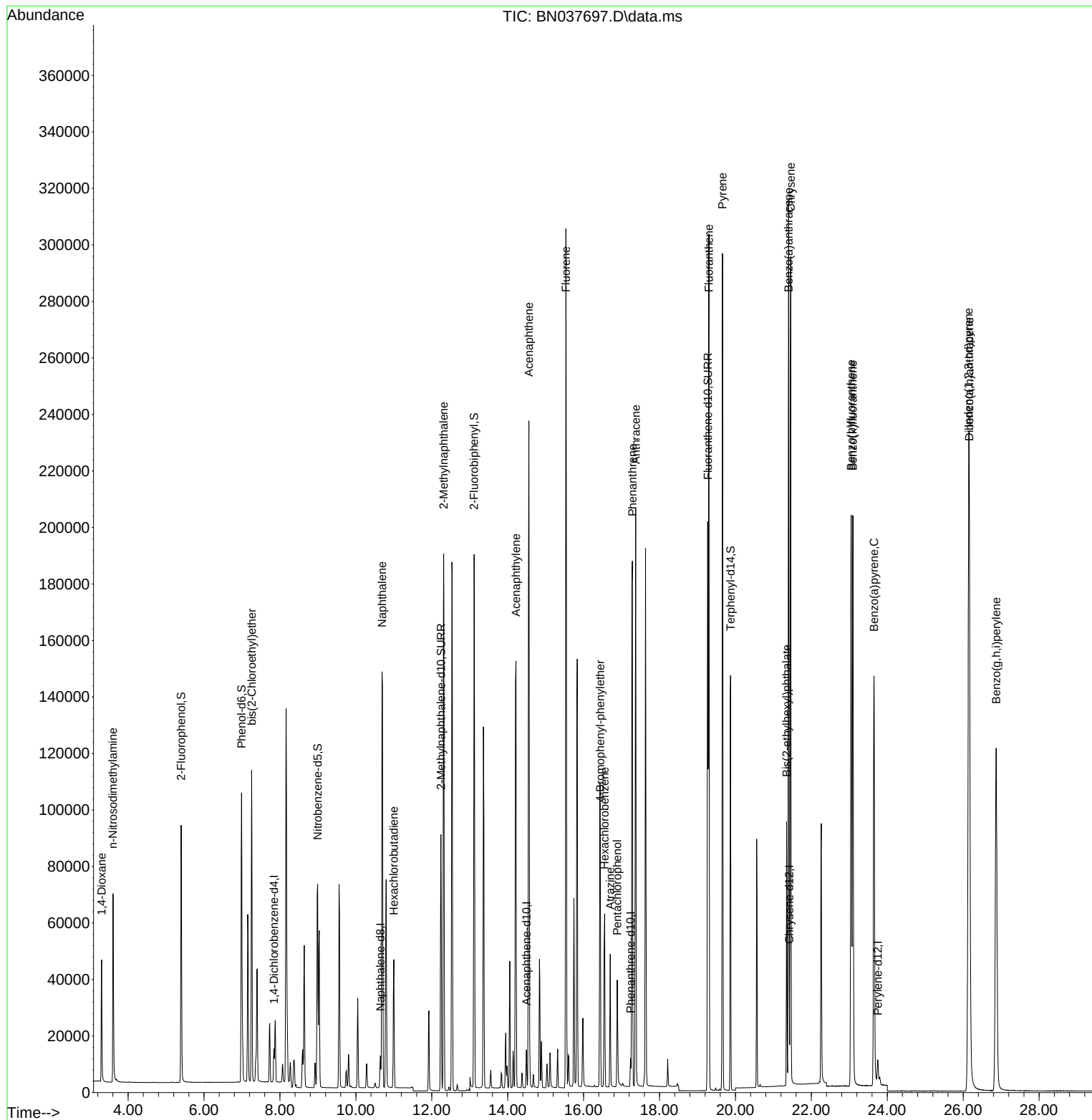
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	5654	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	14362	0.400	ng	0.00
13) Acenaphthene-d10	14.495	164	7056	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	12767	0.400	ng	0.00
29) Chrysene-d12	21.420	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						
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

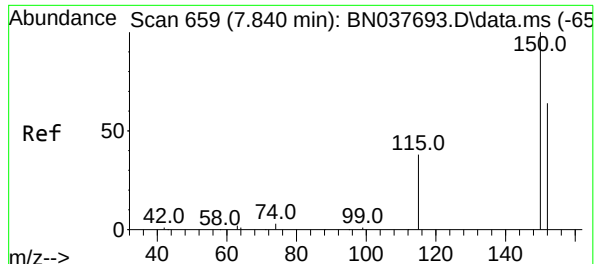
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

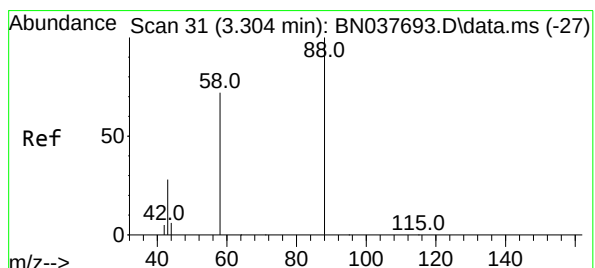
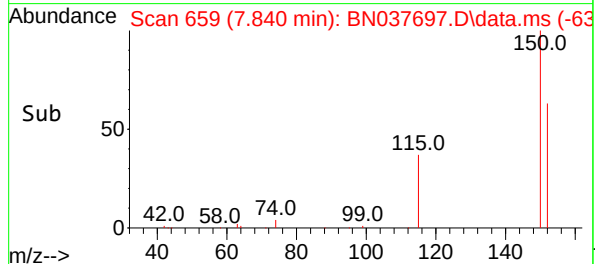
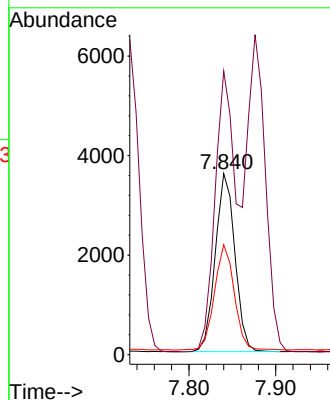
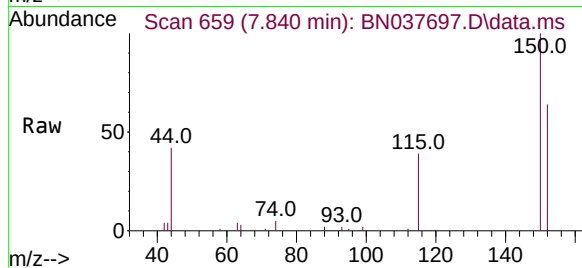




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

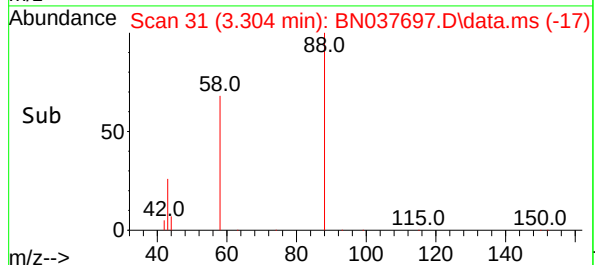
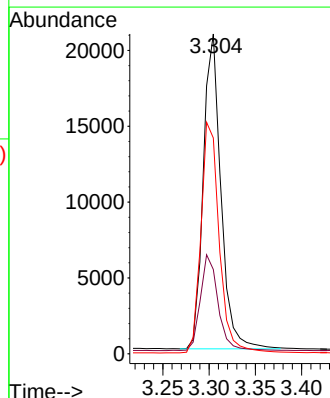
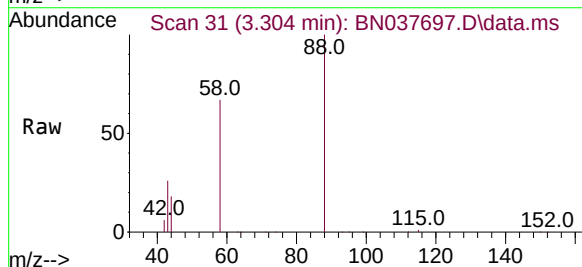
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

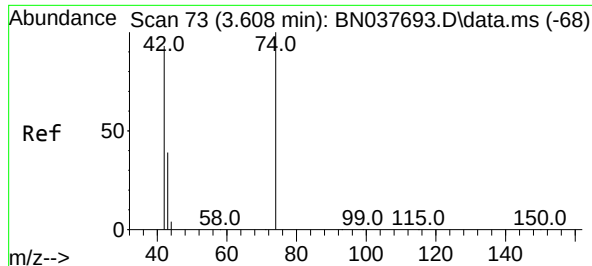
Tgt Ion:152 Resp: 5654
Ion Ratio Lower Upper
152 100
150 156.6 124.5 186.7
115 60.7 49.2 73.8



#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

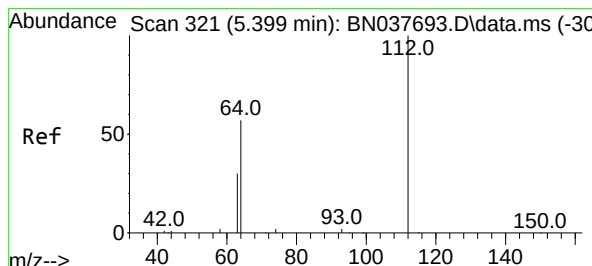
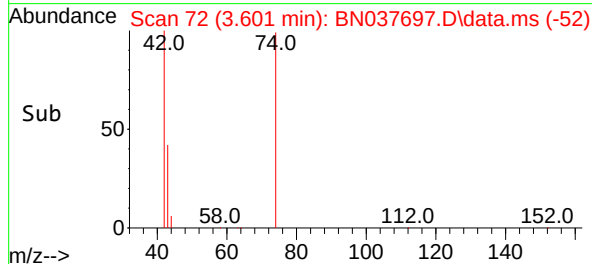
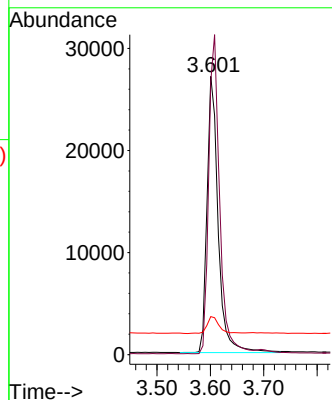
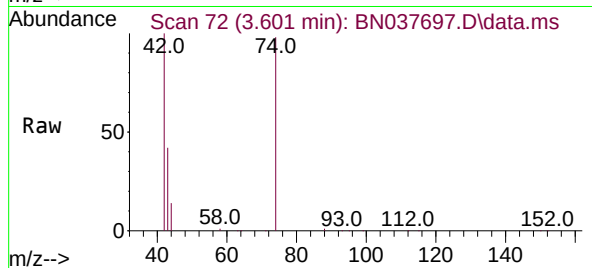




#3
n-Nitrosodimethylamine
Concen: 5.064 ng
RT: 3.601 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

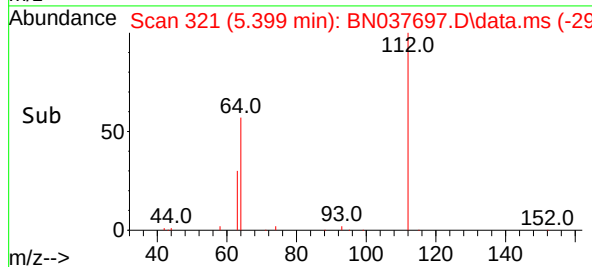
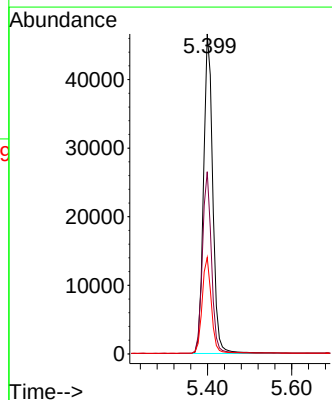
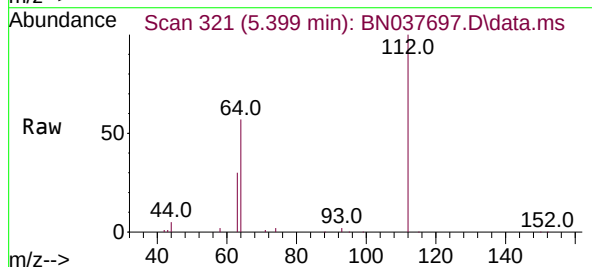
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

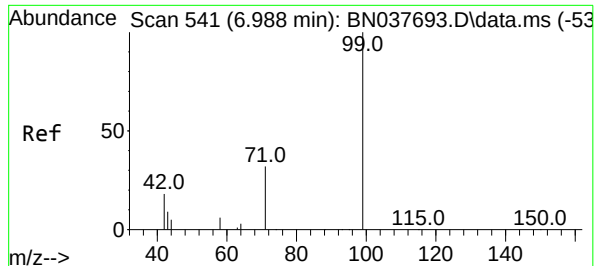
Tgt Ion: 42 Resp: 38960
Ion Ratio Lower Upper
42 100
74 114.1 86.0 129.0
44 6.6 8.4 12.6#



#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

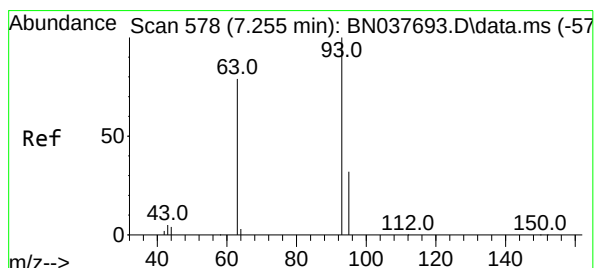
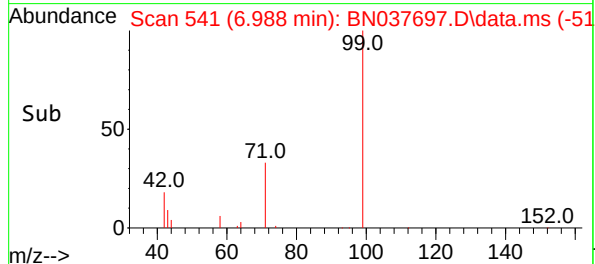
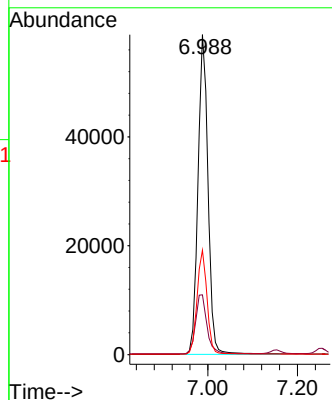
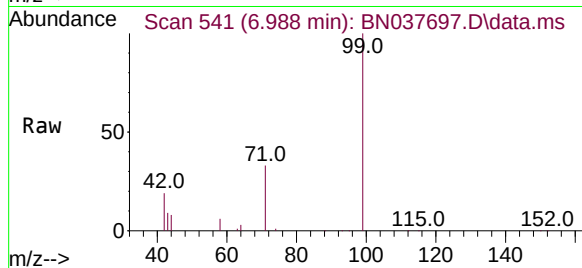




#5
Phenol-d6
Concen: 5.412 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

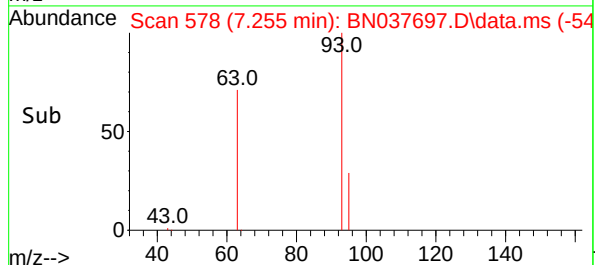
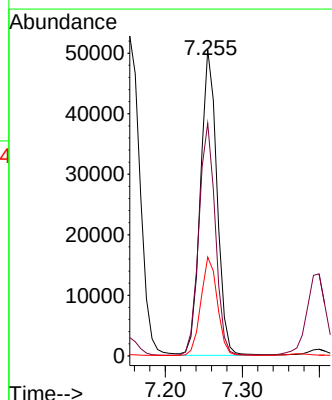
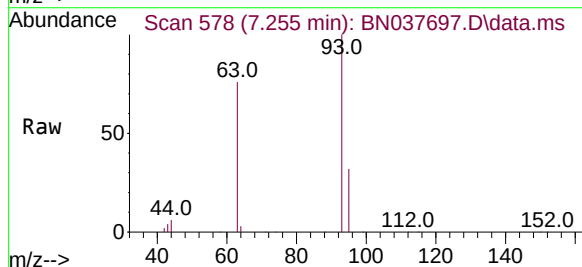
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

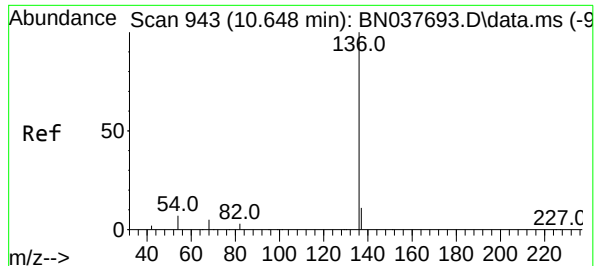
Tgt Ion: 99 Resp: 91084
Ion Ratio Lower Upper
99 100
42 20.8 16.6 24.8
71 32.6 26.7 40.1



#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

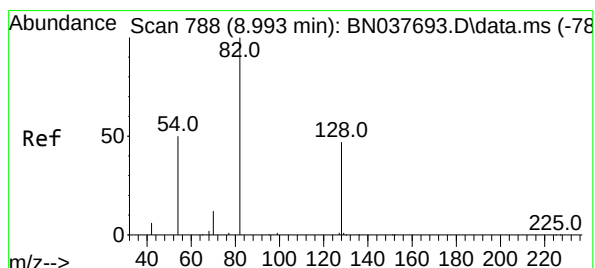
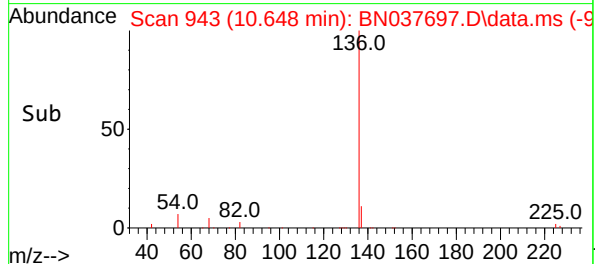
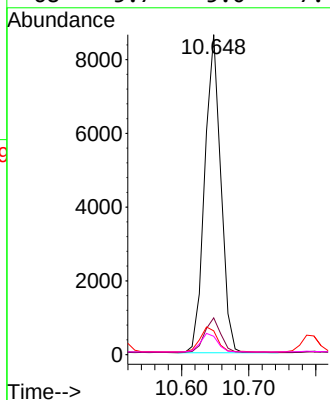
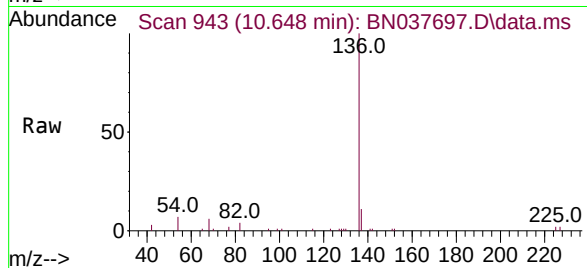




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

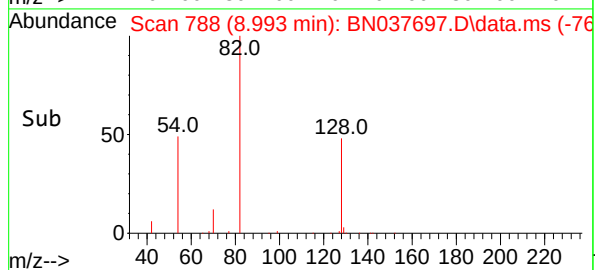
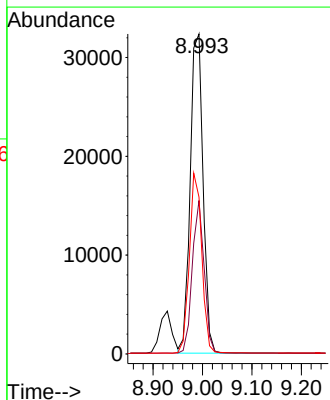
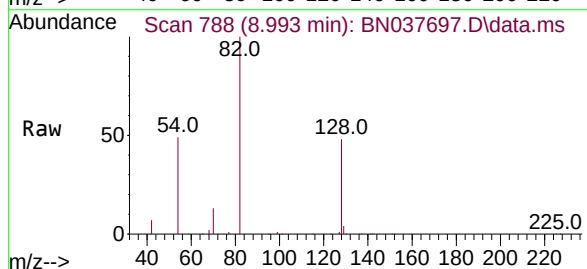
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

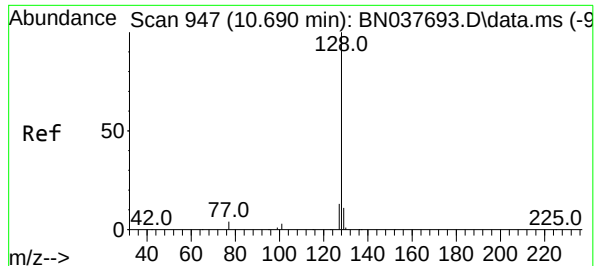
Tgt Ion:	136	Resp:	14362
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	7.4	6.3	9.5
68	5.7	5.0	7.4



#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

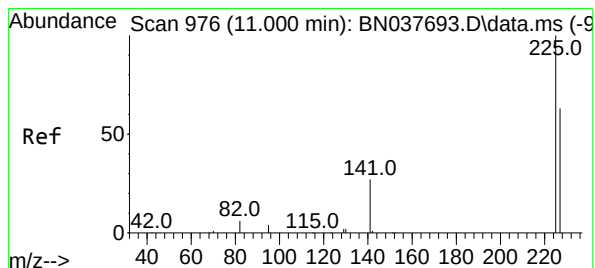
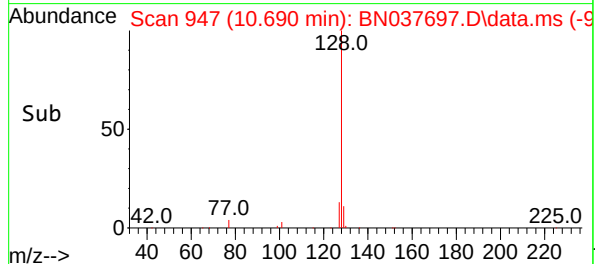
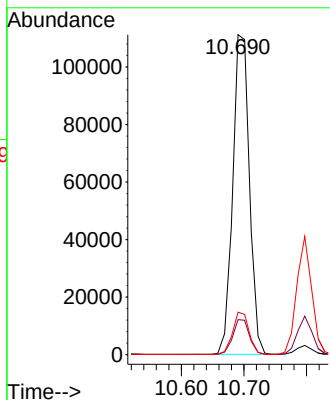
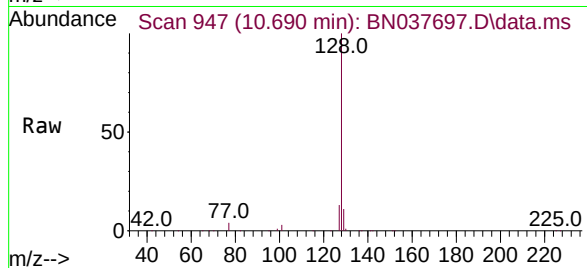




#9
Naphthalene
Concen: 5.253 ng
RT: 10.690 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

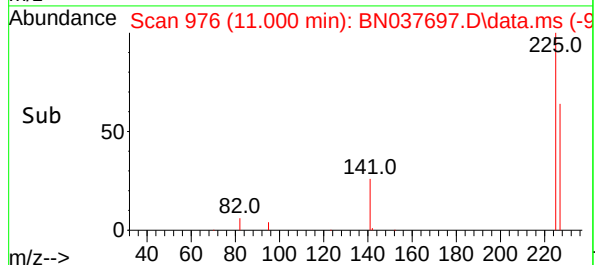
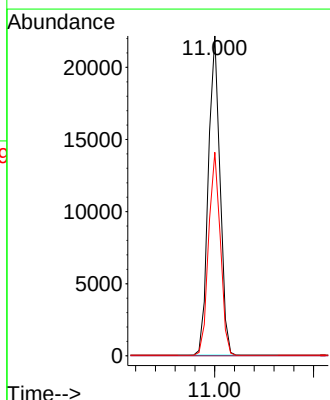
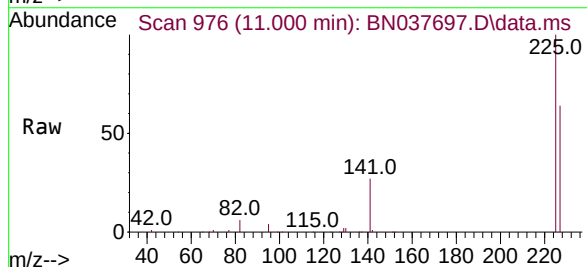
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

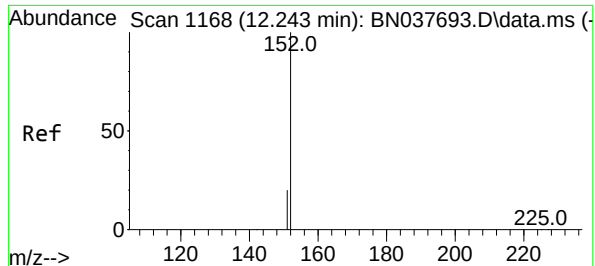
Tgt Ion:128 Resp: 206218
Ion Ratio Lower Upper
128 100
129 10.9 9.1 13.7
127 13.3 10.9 16.3



#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

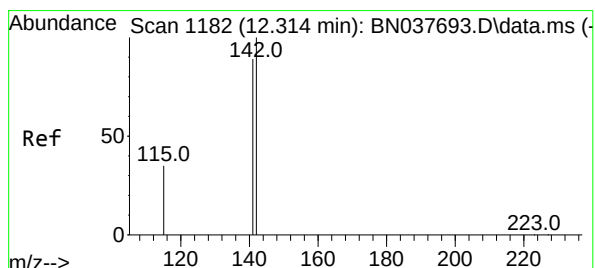
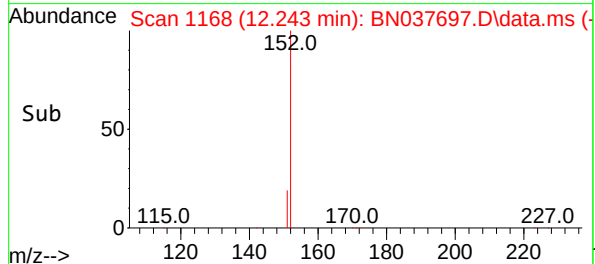
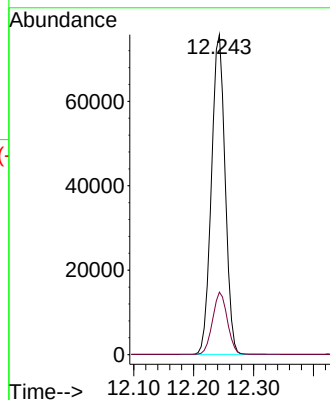
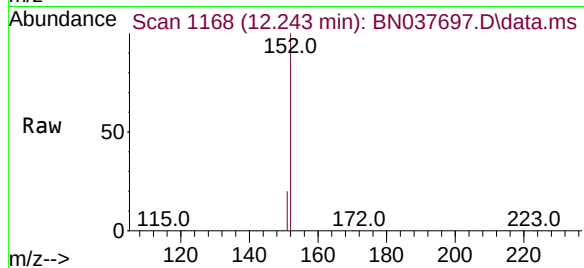




#11
2-Methylnaphthalene-d10
Concen: 6.306 ng
RT: 12.243 min Scan# 1168
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

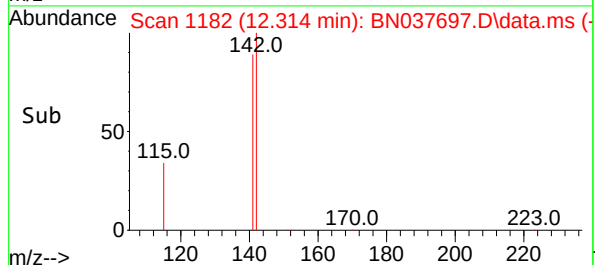
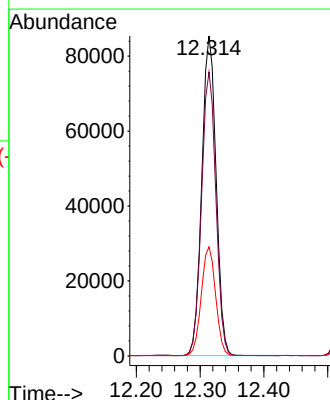
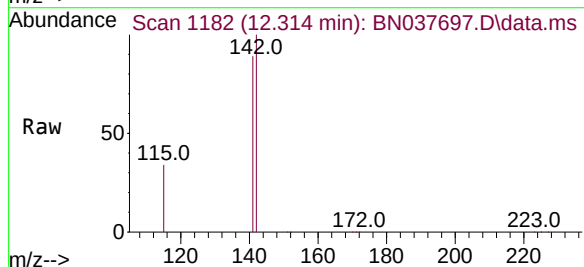
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

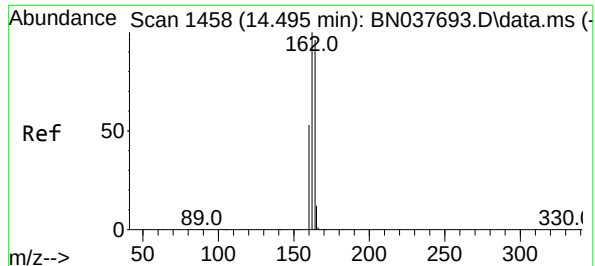
Tgt Ion:152 Resp: 119992
Ion Ratio Lower Upper
152 100
151 21.0 17.0 25.6



#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

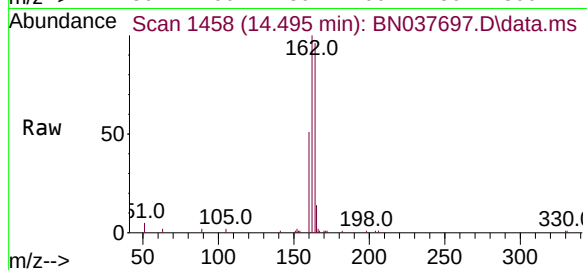
Acq: 11 Sep 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



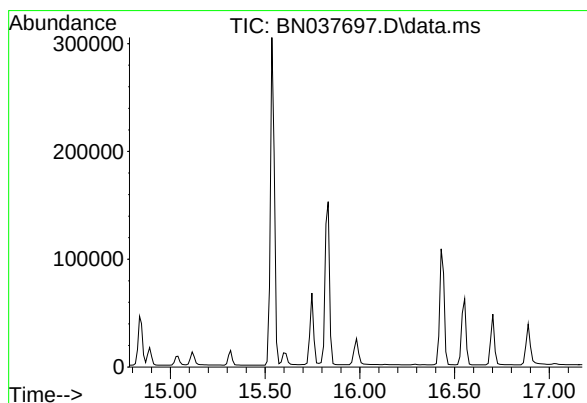
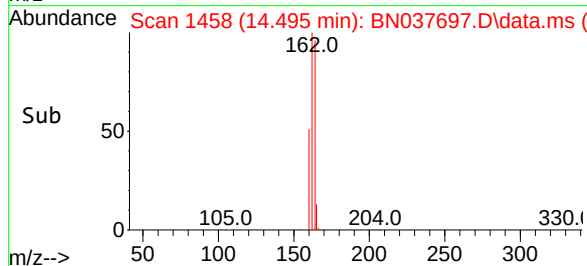
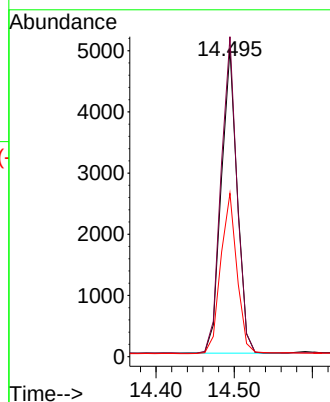
Tgt Ion:164 Resp: 7056

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

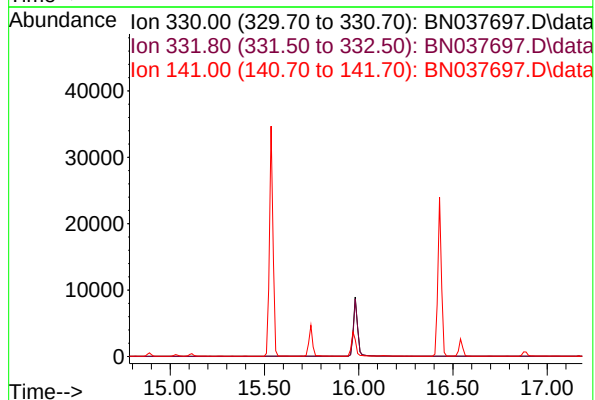
Tgt Ion: 330

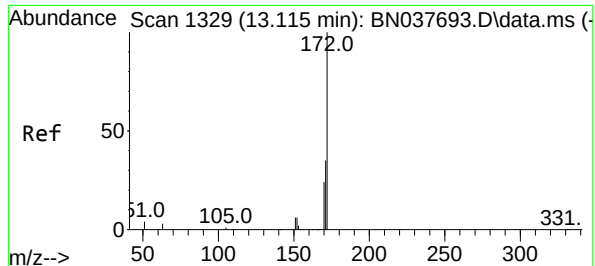
Sig Exp Ratio

330 100

332 94.1

141 43.7

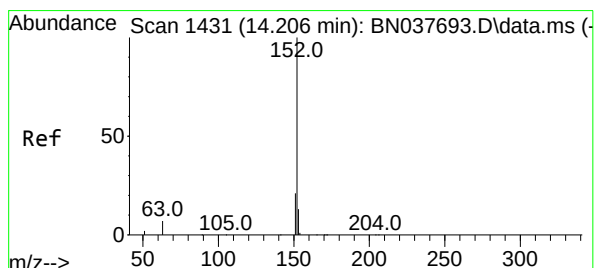
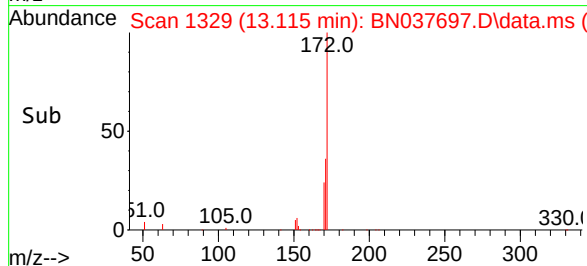
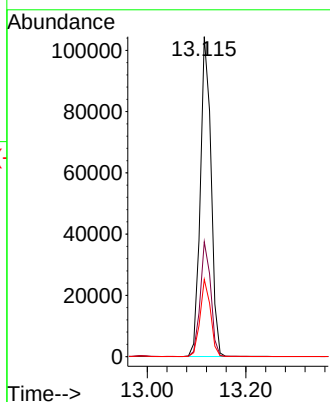
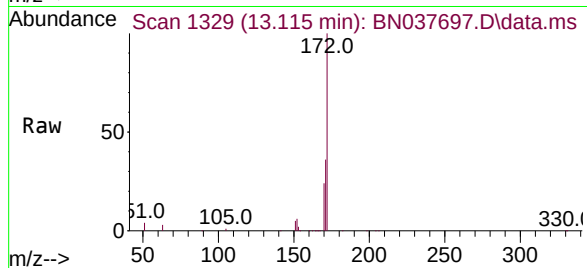




#15
2-Fluorobiphenyl
Concen: 5.334 ng
RT: 13.115 min Scan# 1329
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

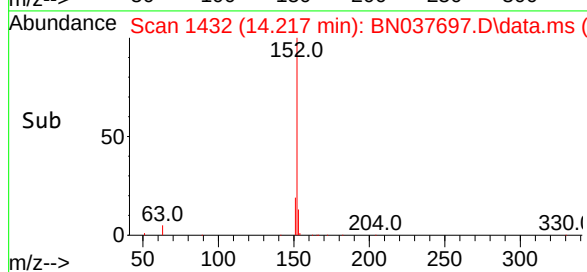
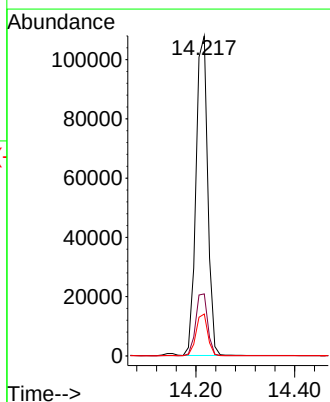
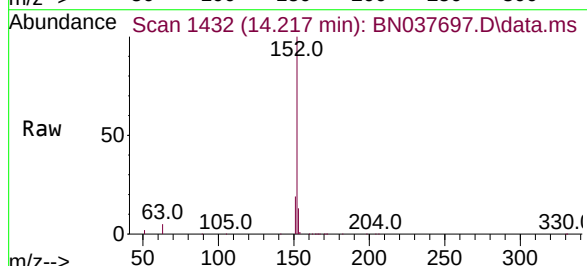
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

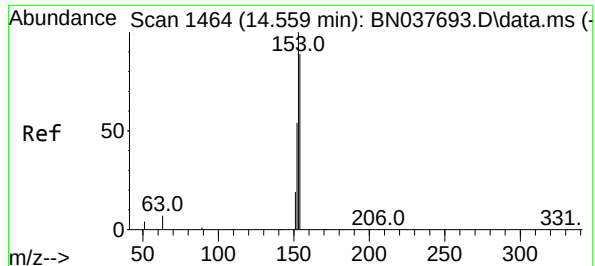
Tgt Ion:172 Resp: 157398
Ion Ratio Lower Upper
172 100
171 35.9 28.6 43.0
170 24.1 19.8 29.8



#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

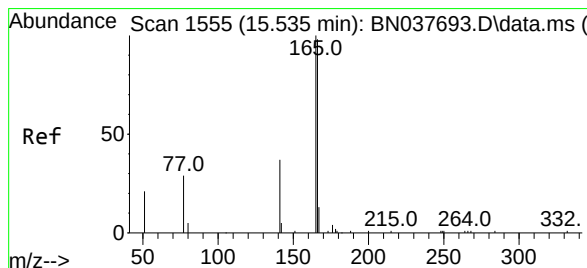
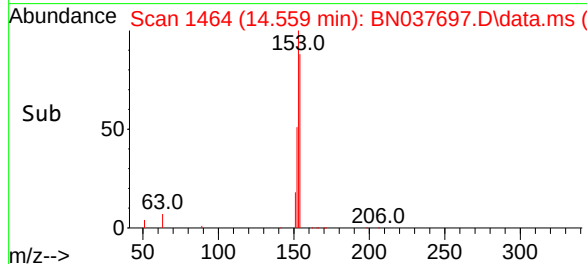
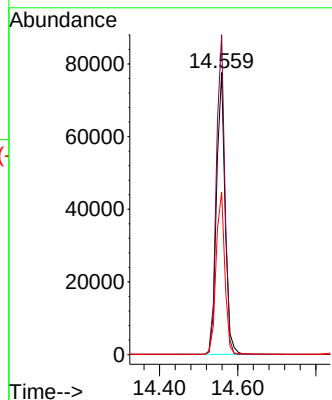
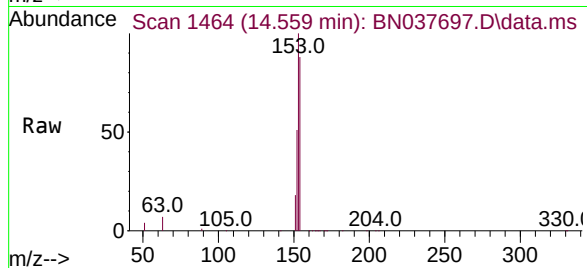
Tgt Ion:154 Resp: 118915

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

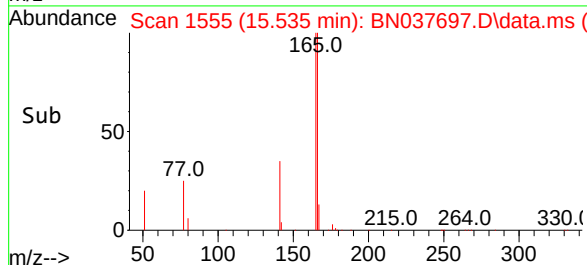
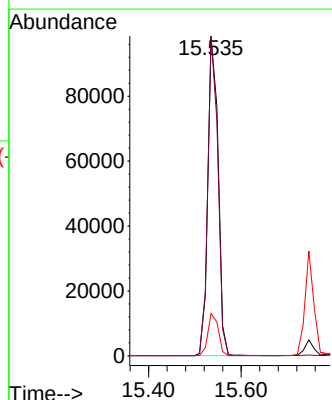
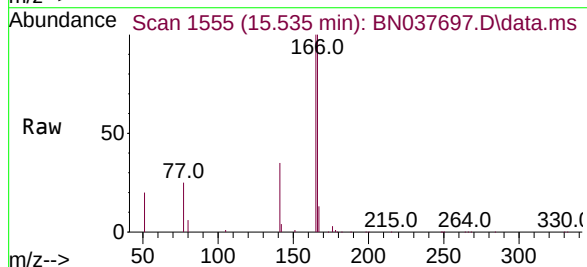
Tgt Ion:166 Resp: 147419

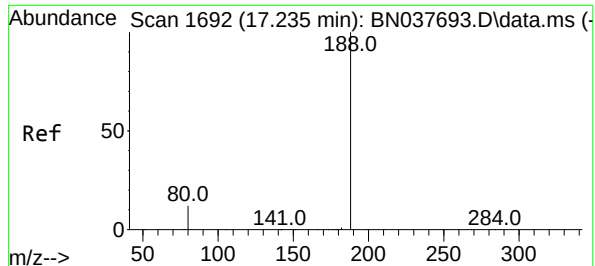
Ion Ratio Lower Upper

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

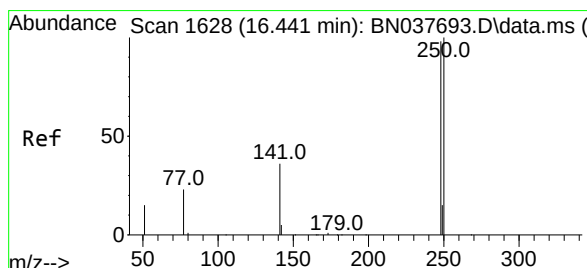
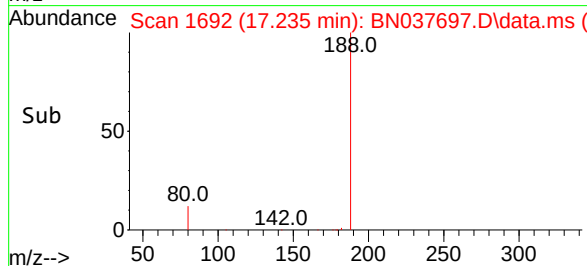
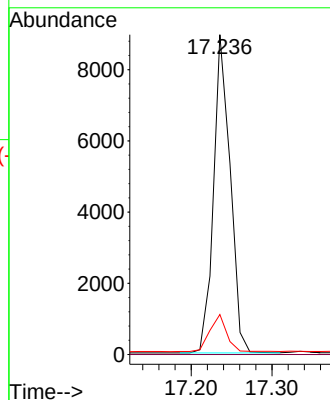
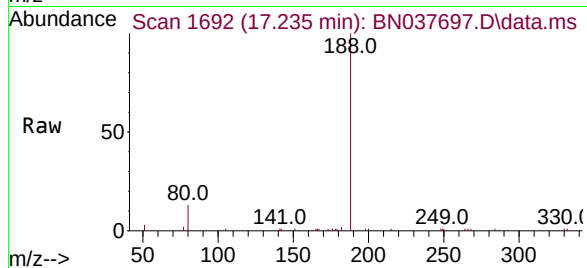
Tgt Ion:188 Resp: 12767

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

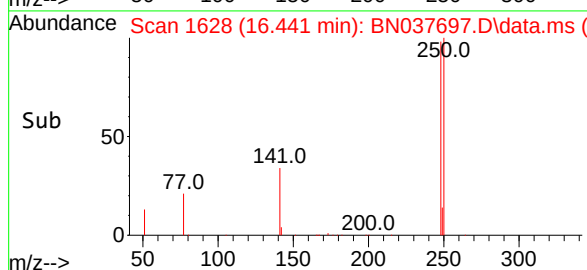
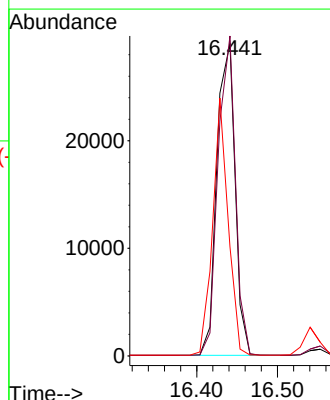
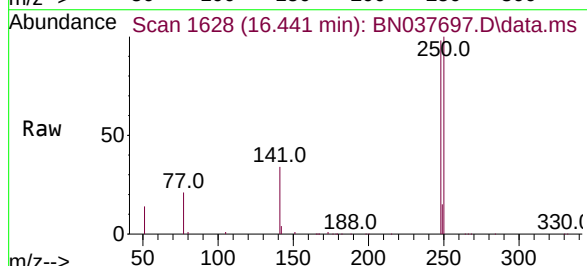
Tgt Ion:248 Resp: 45357

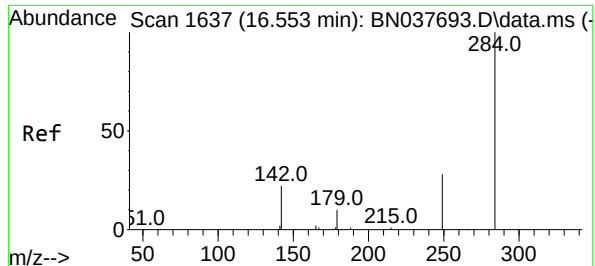
Ion Ratio Lower Upper

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

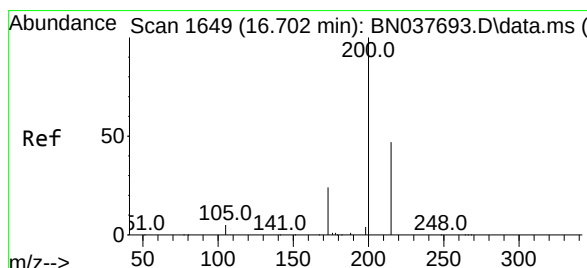
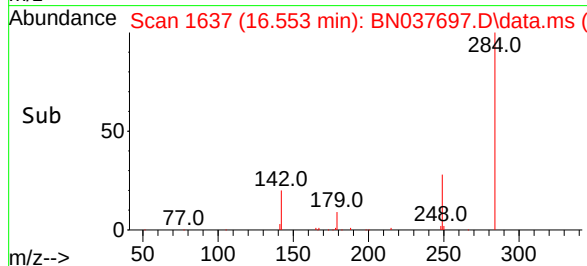
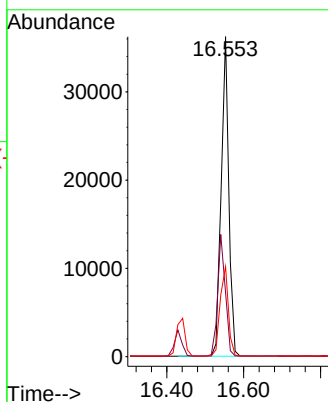
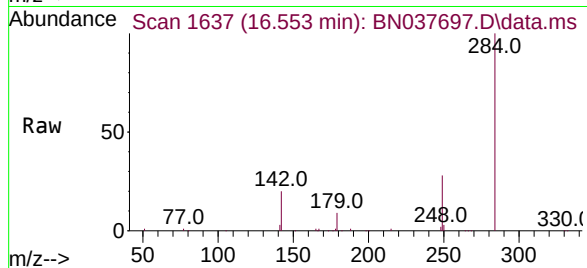
Tgt Ion:284 Resp: 49411

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

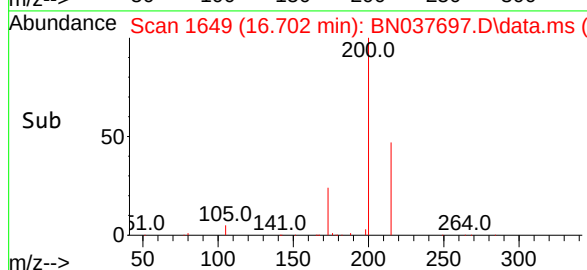
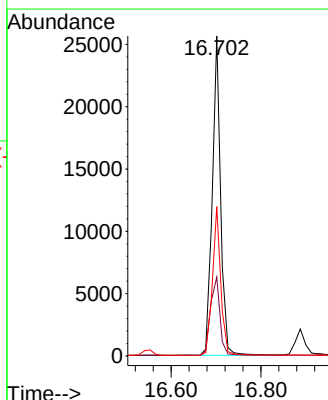
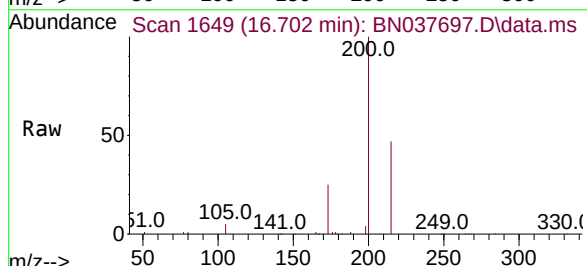
Tgt Ion:200 Resp: 33341

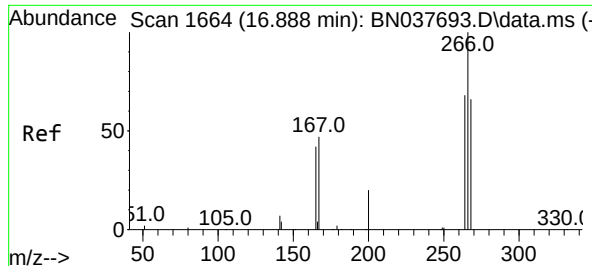
Ion Ratio Lower Upper

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

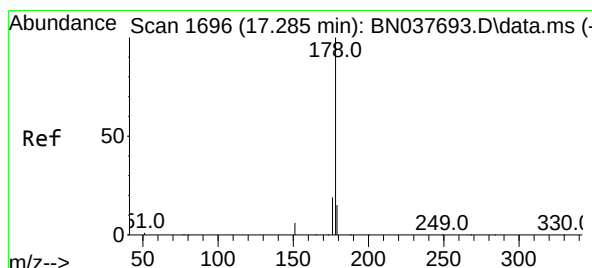
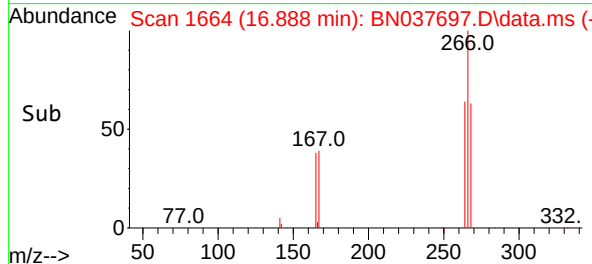
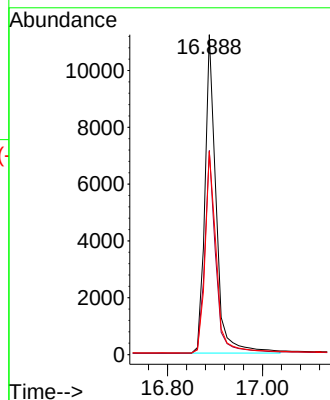
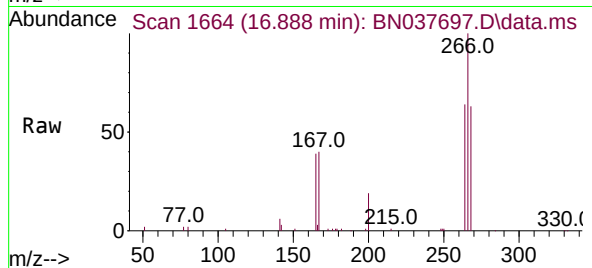
Tgt Ion:266 Resp: 18297

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

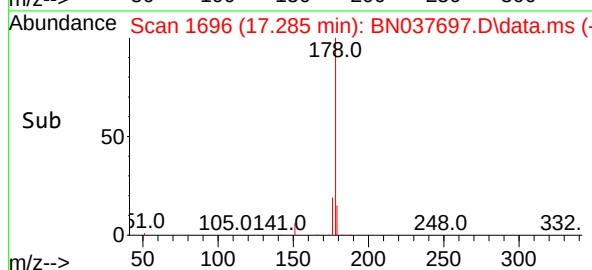
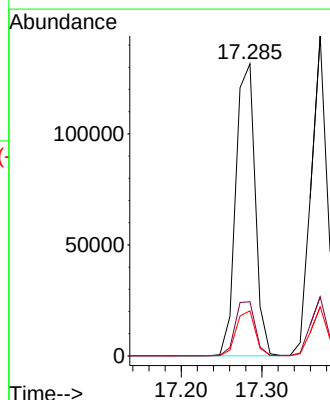
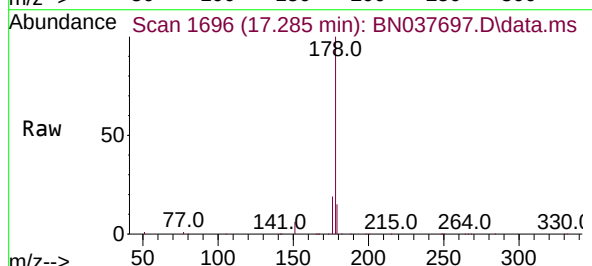
Tgt Ion:178 Resp: 218722

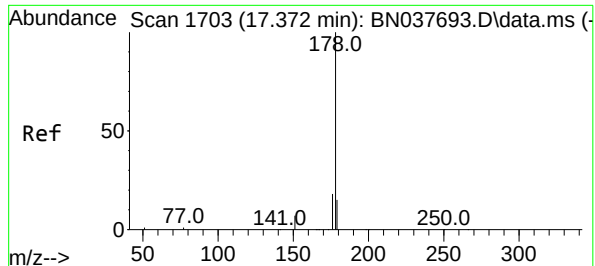
Ion Ratio Lower Upper

178 100

176 19.2 15.3 22.9

179 15.1 12.2 18.2

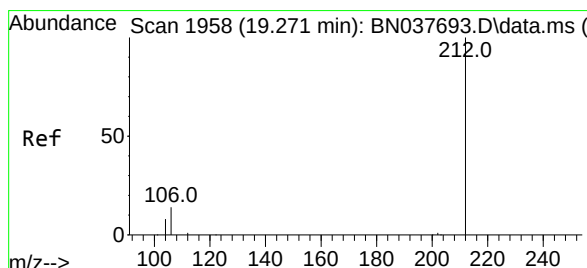
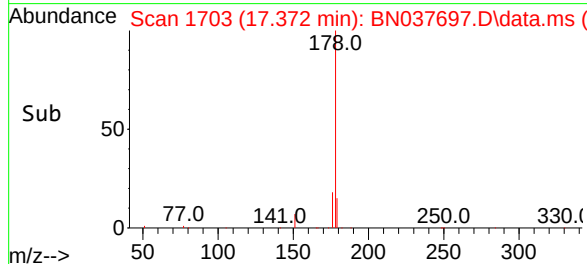
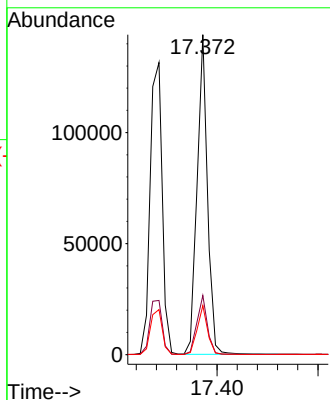
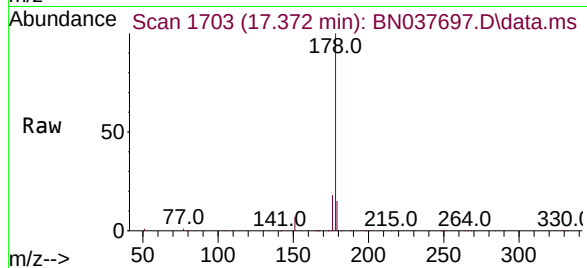




#26
Anthracene
Concen: 5.741 ng
RT: 17.372 min Scan# 1703
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

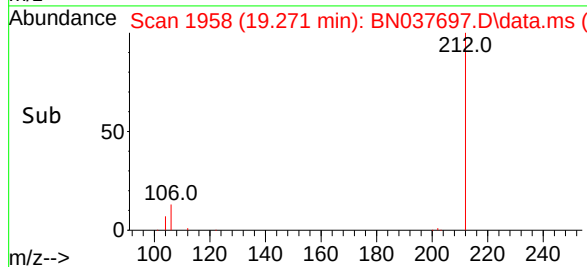
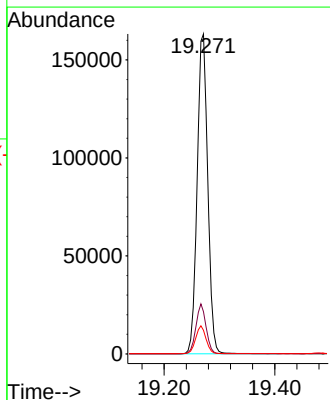
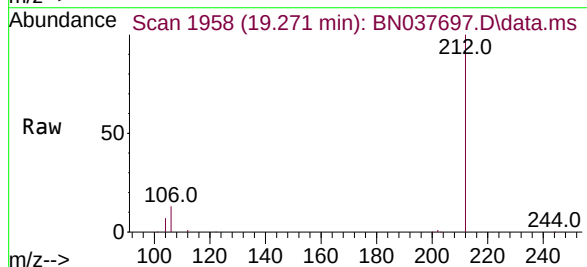
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

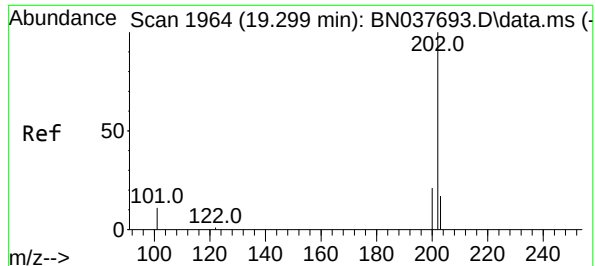
Tgt Ion:178 Resp: 204421
Ion Ratio Lower Upper
178 100
176 18.6 14.6 22.0
179 15.2 12.2 18.4



#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

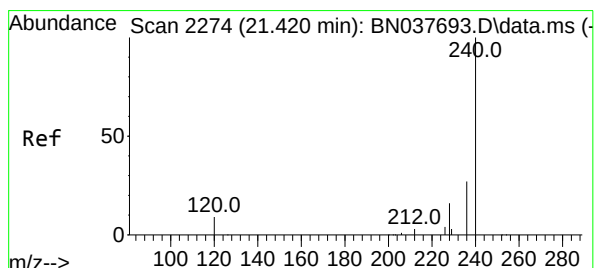
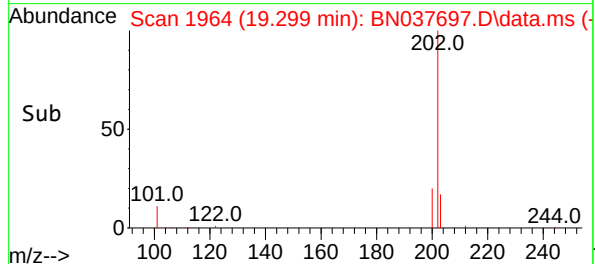
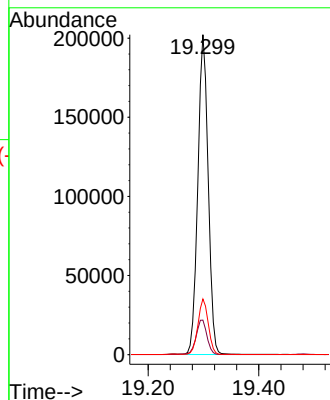
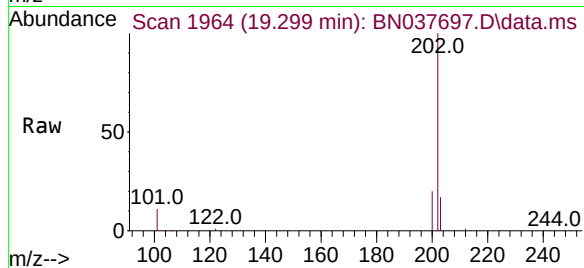




#28
Fluoranthene
Concen: 5.926 ng
RT: 19.299 min Scan# 1964
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

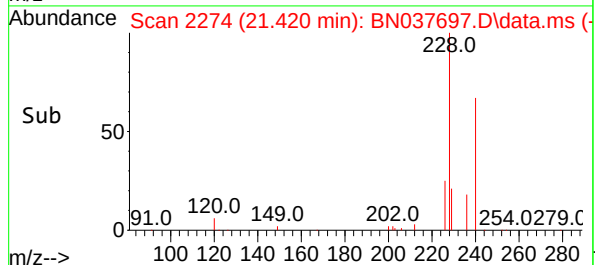
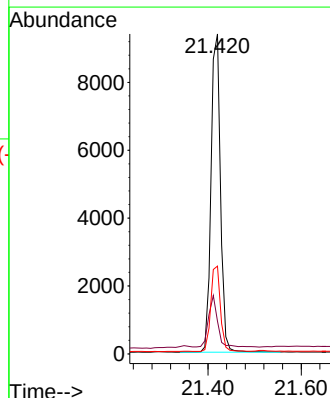
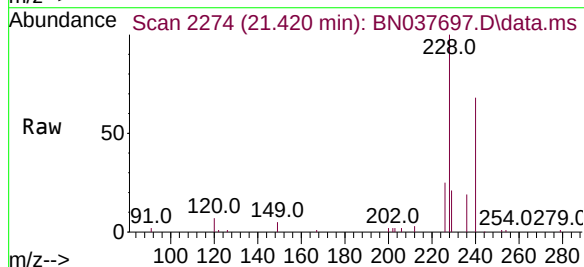
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

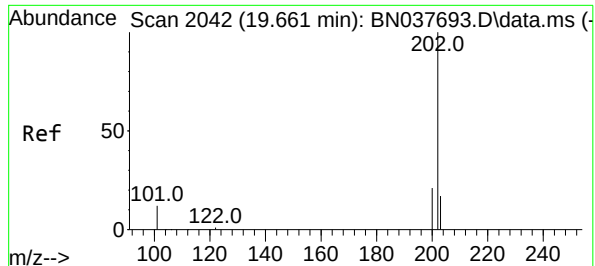
Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.4	9.3	13.9
203	17.3	13.7	20.5



#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	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 :

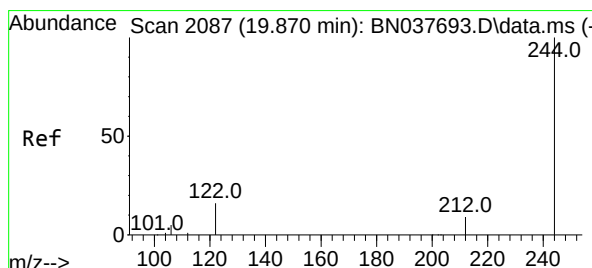
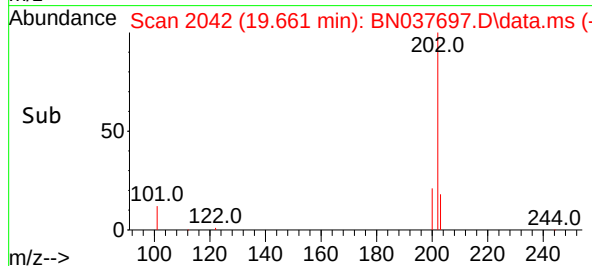
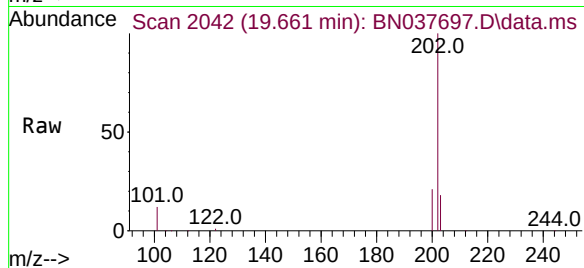
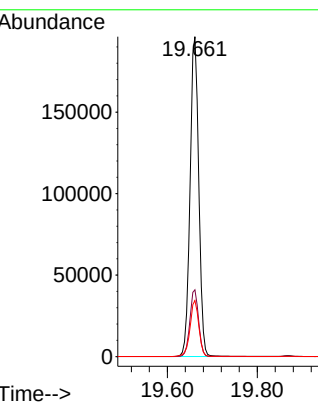
BNA_N

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

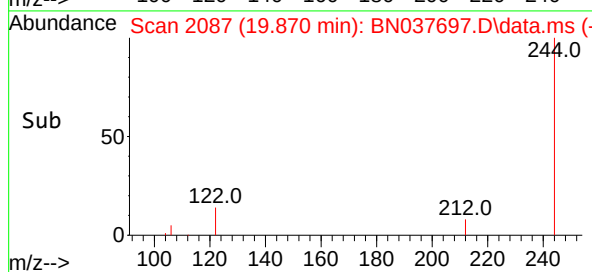
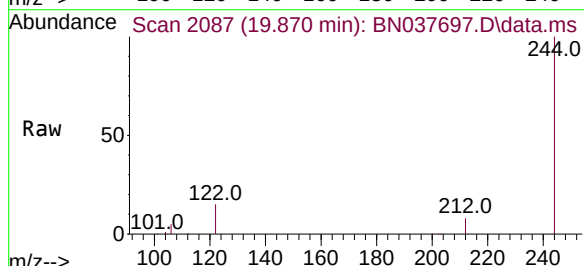
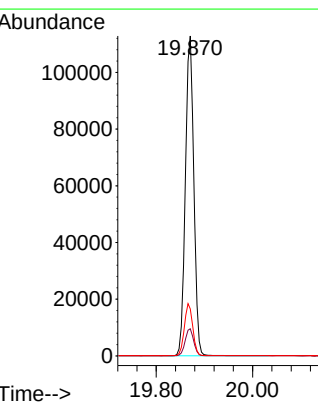
Delta R.T. 0.000 min

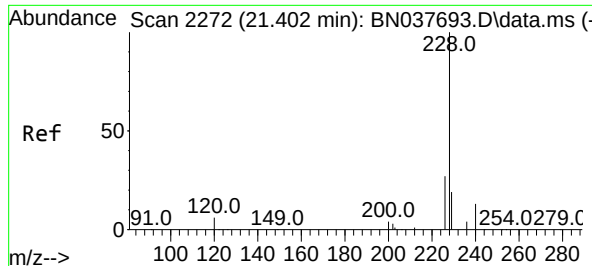
Lab File: BN037697.D

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

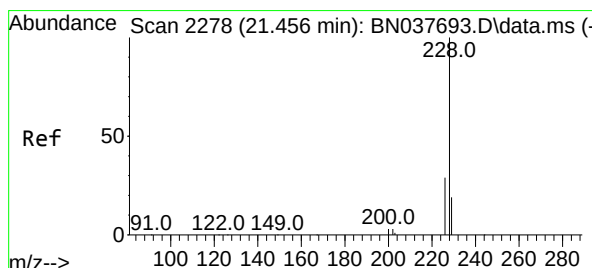
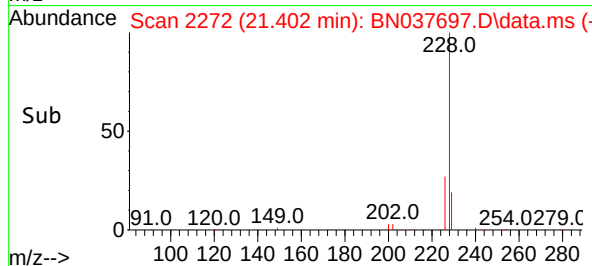
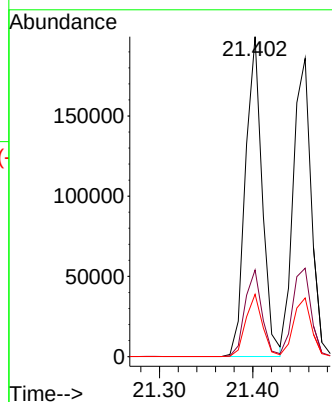
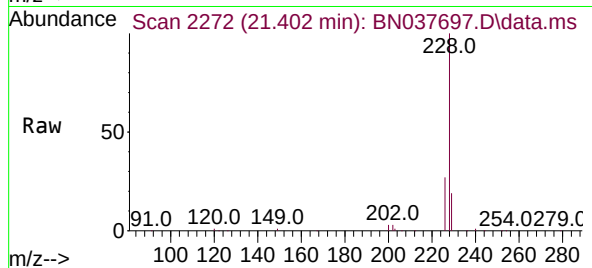




#32
Benzo(a)anthracene
Concen: 5.454 ng
RT: 21.402 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

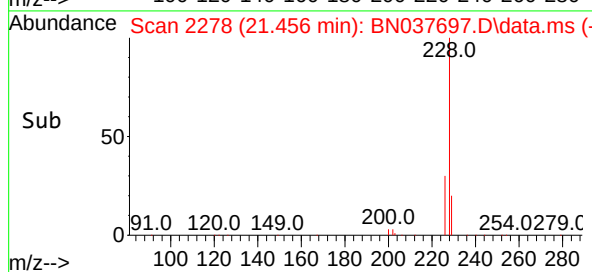
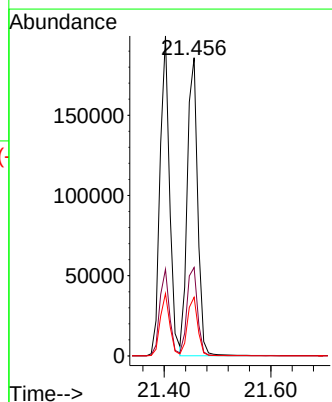
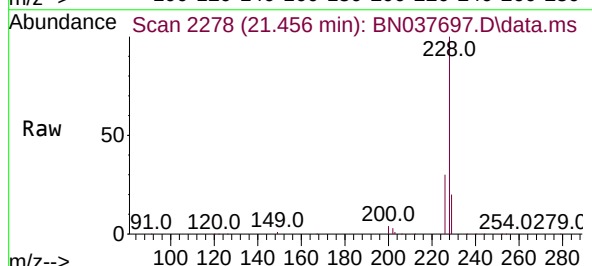
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

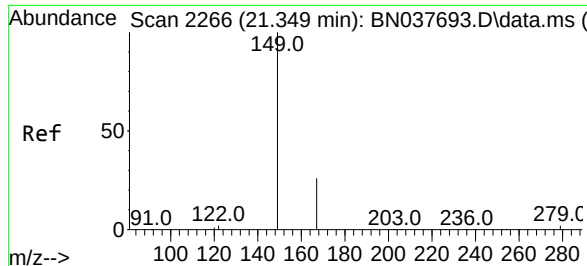
Tgt Ion:228 Resp: 248434
Ion Ratio Lower Upper
228 100
226 27.1 22.2 33.2
229 19.5 15.8 23.6



#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

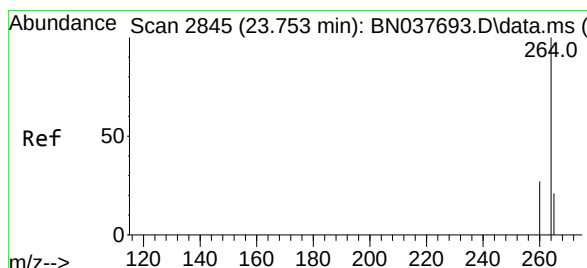
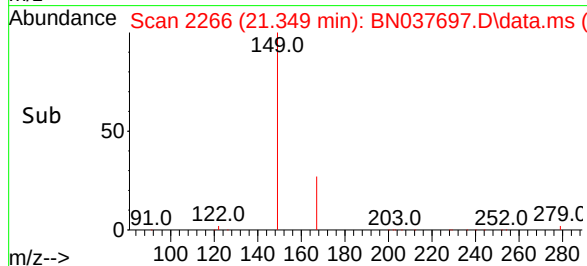
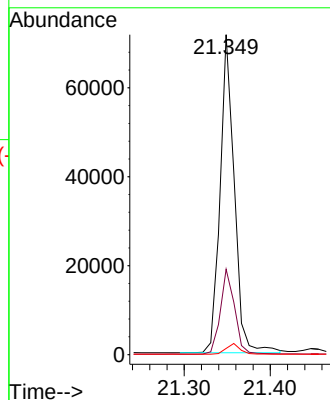
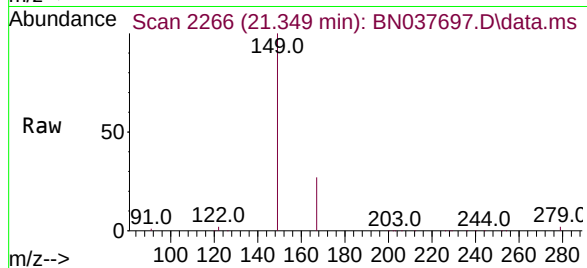




#34
Bis(2-ethylhexyl)phthalate
Concen: 6.091 ng
RT: 21.349 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

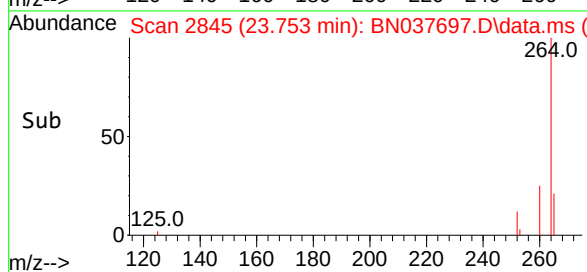
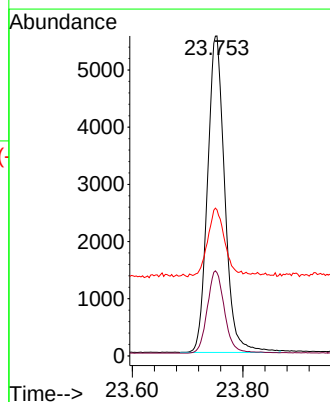
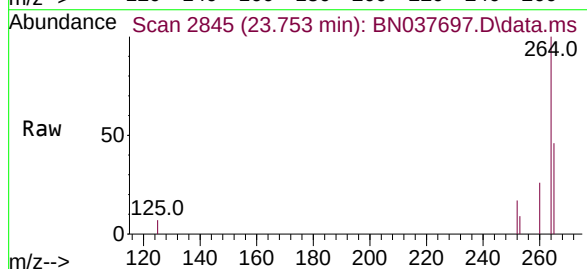
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

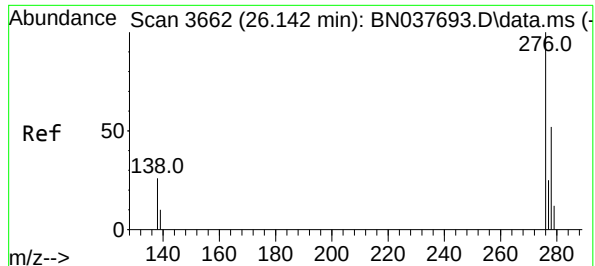
Tgt Ion:149 Resp: 82262
Ion Ratio Lower Upper
149 100
167 26.7 20.8 31.2
279 3.2 3.3 4.9#



#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

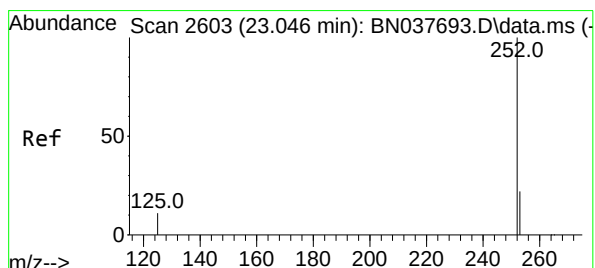
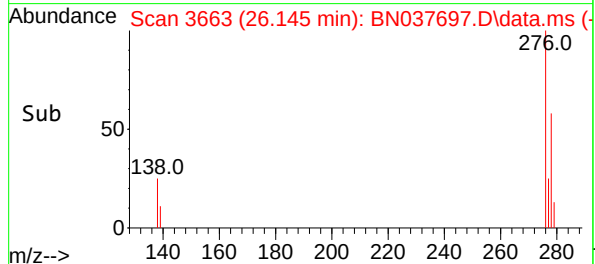
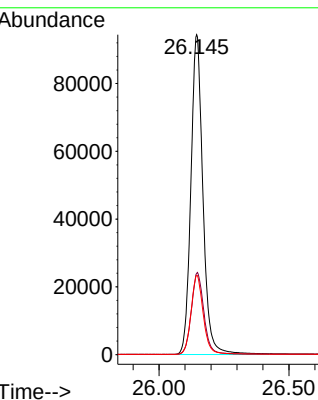
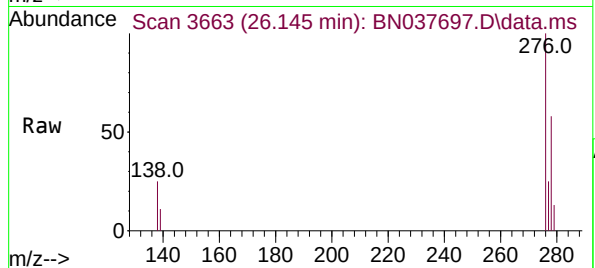
Tgt Ion:276 Resp: 303960

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

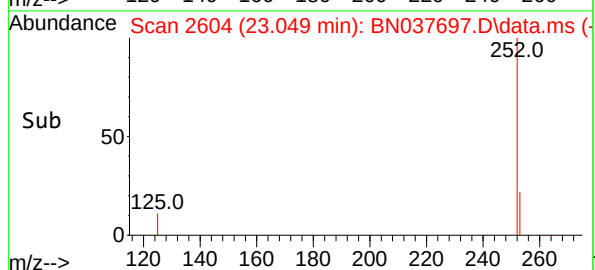
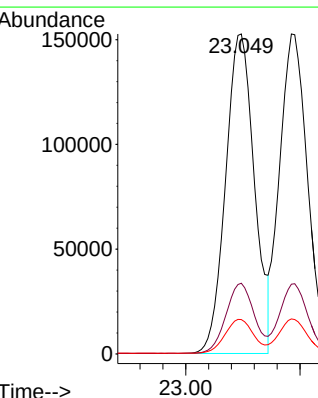
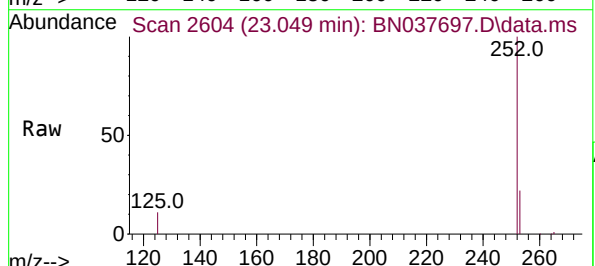
Tgt Ion:252 Resp: 266973

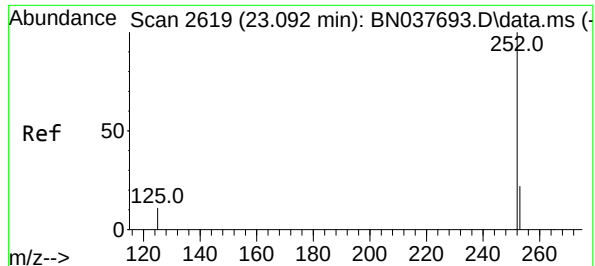
Ion Ratio Lower Upper

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

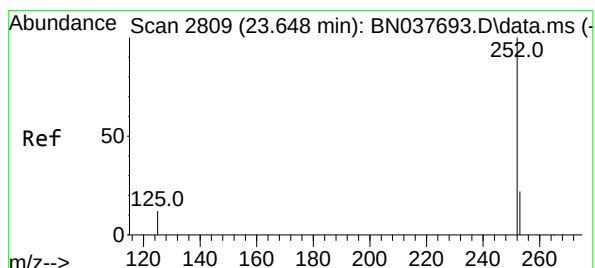
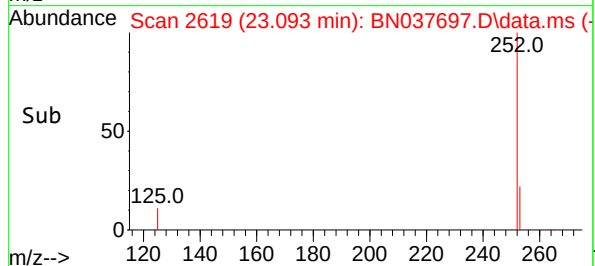
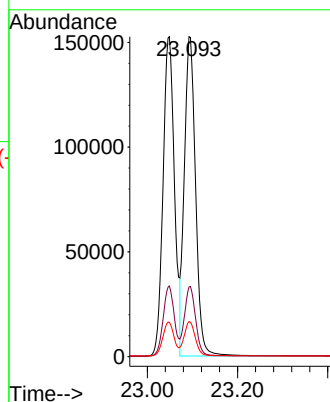
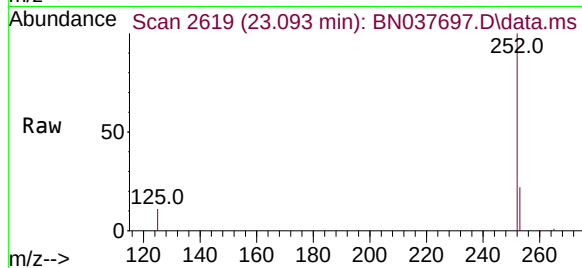
Tgt Ion:252 Resp: 263641

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

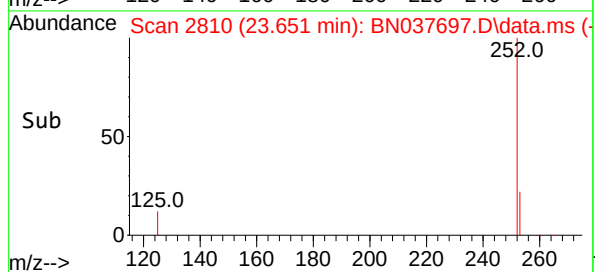
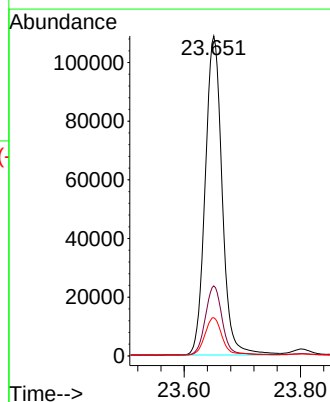
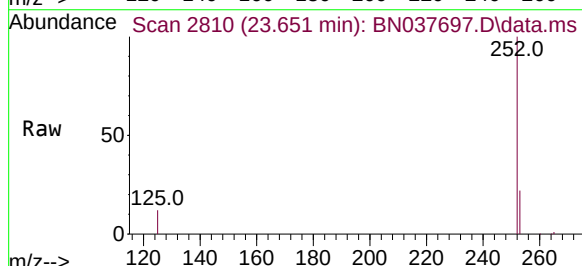
Tgt Ion:252 Resp: 220208

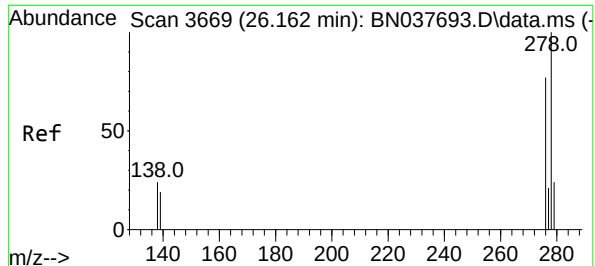
Ion Ratio Lower Upper

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

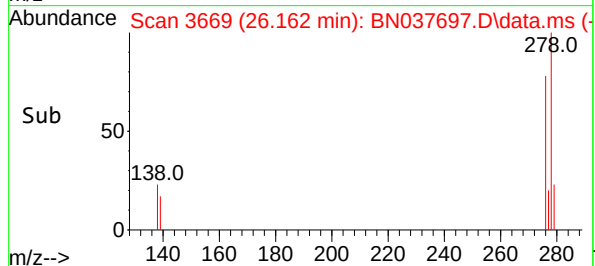
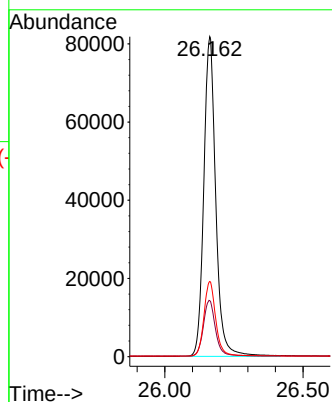
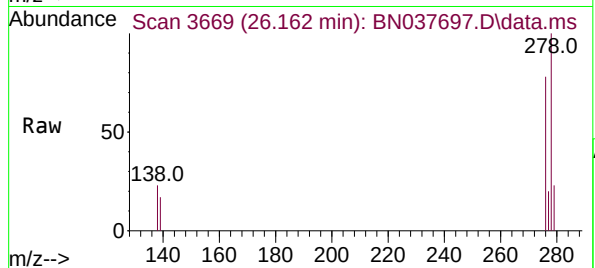
Tgt Ion:278 Resp: 245606

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

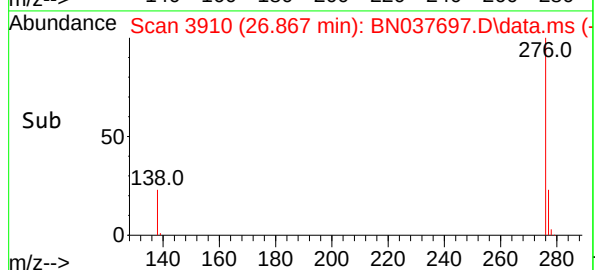
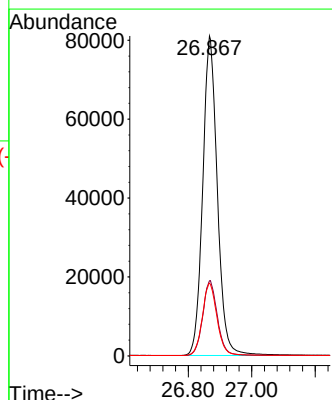
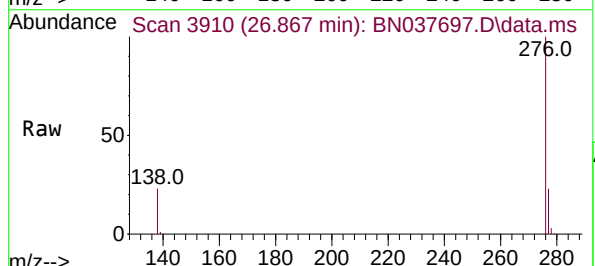
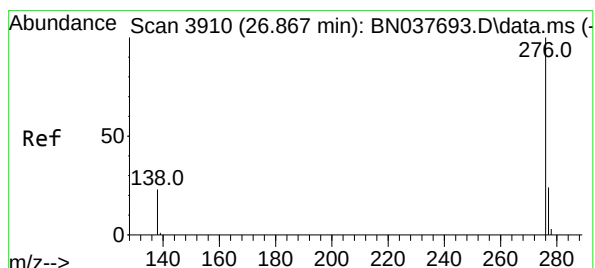
Tgt Ion:276 Resp: 258594

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

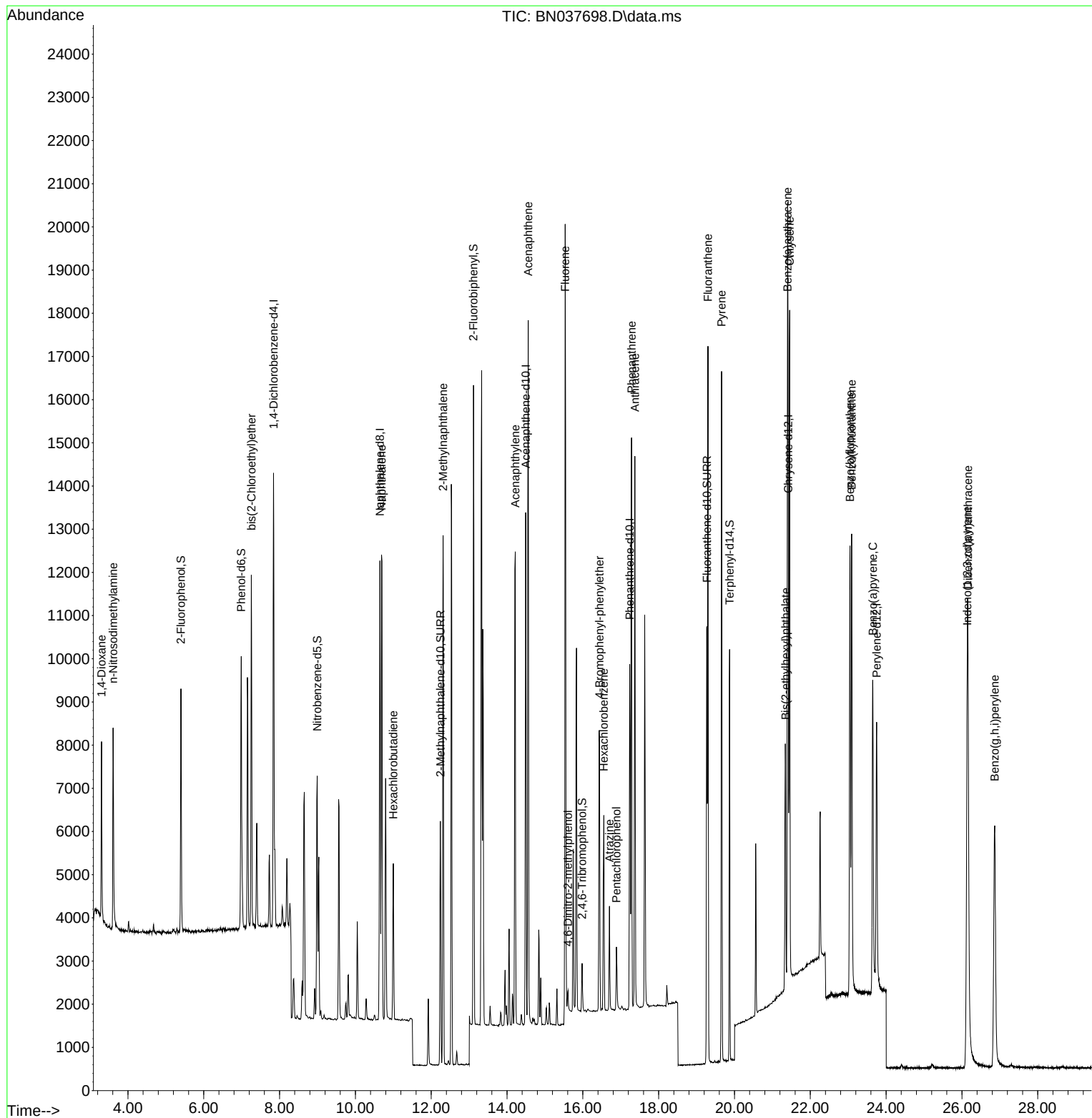
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	5029	0.400	ng	0.00
7) Naphthalene-d8	10.647	136	13552	0.400	ng	0.00
13) Acenaphthene-d10	14.494	164	6371	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	11165	0.400	ng	0.00
29) Chrysene-d12	21.420	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						
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

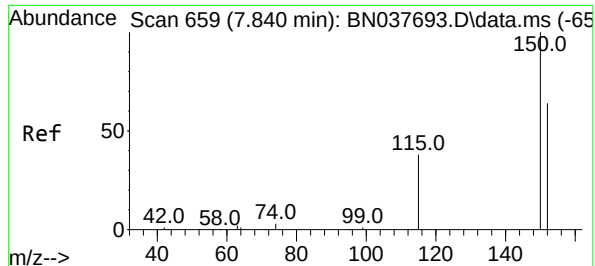
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

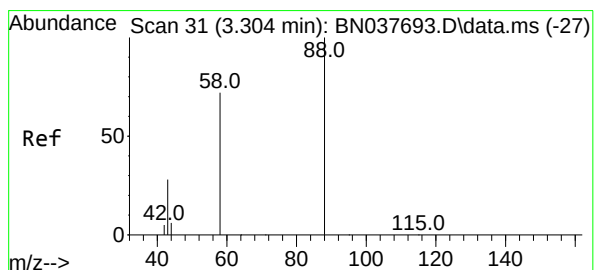
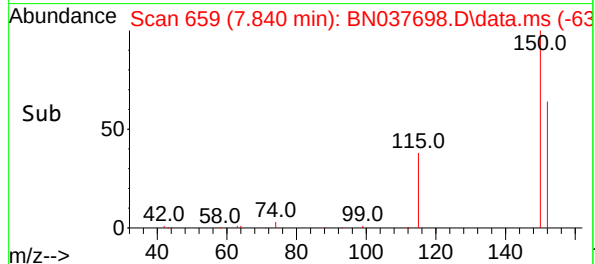
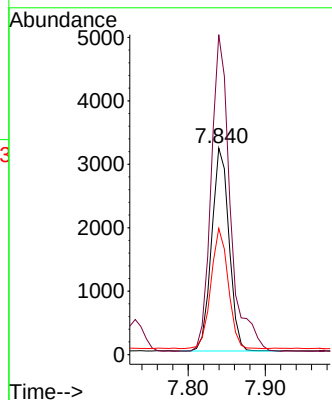
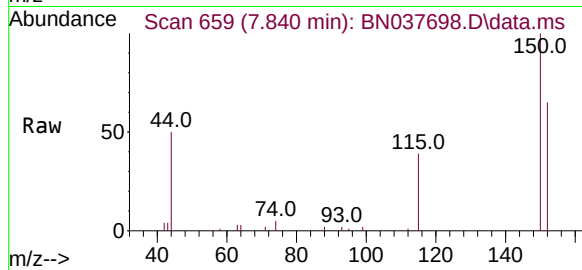




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

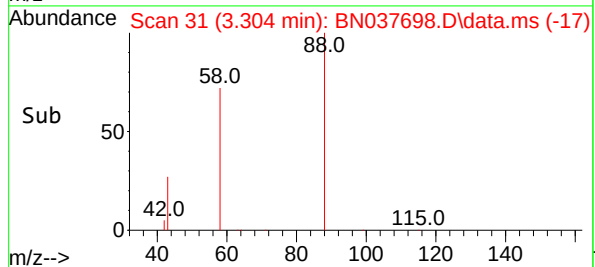
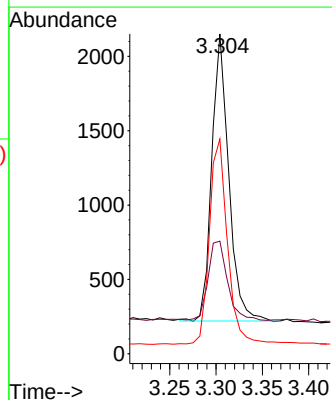
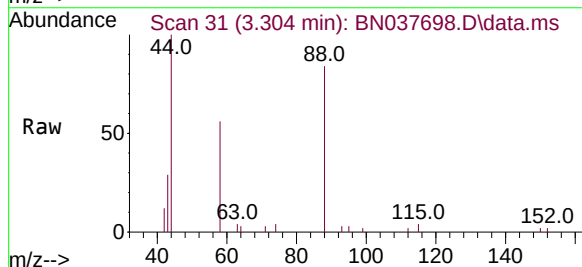
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

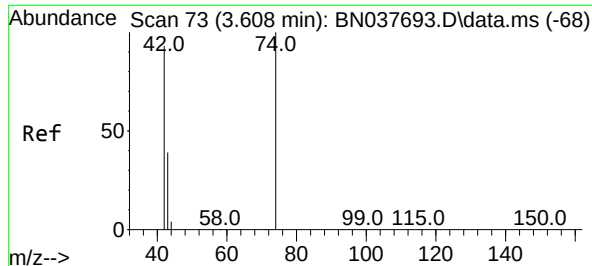
Tgt Ion:152 Resp: 5029
Ion Ratio Lower Upper
152 100
150 154.8 124.5 186.7
115 61.0 49.2 73.8



#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

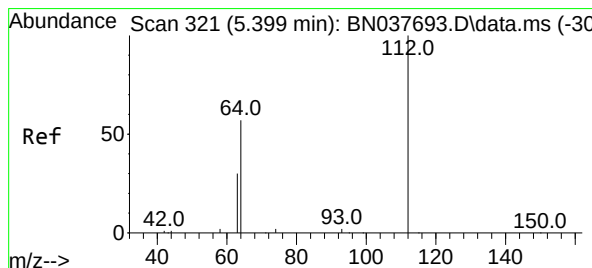
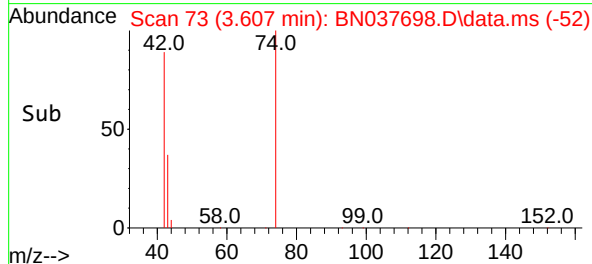
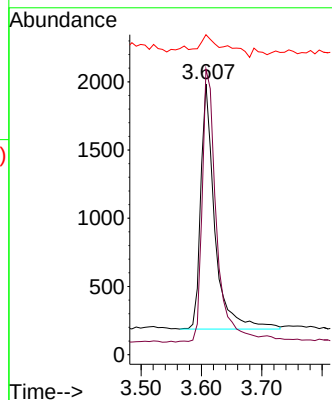
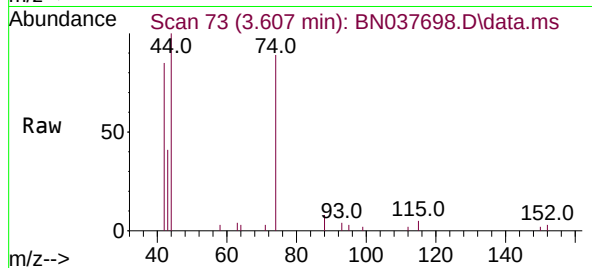




#3
n-Nitrosodimethylamine
Concen: 0.427 ng
RT: 3.607 min Scan# 73
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

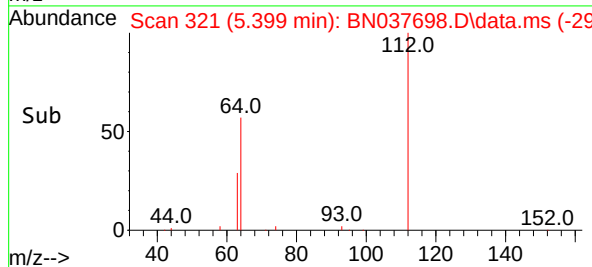
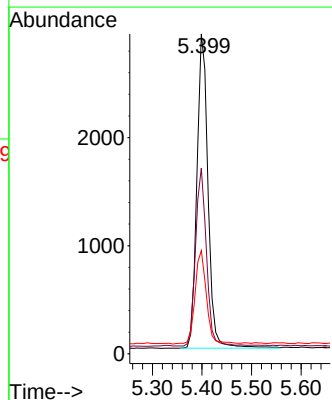
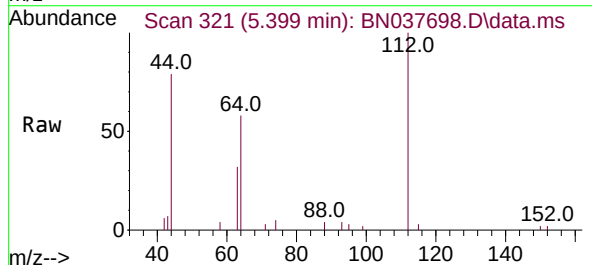
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

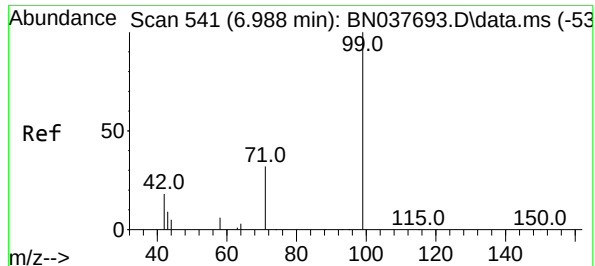
Tgt Ion: 42 Resp: 2924
Ion Ratio Lower Upper
42 100
74 112.9 86.0 129.0
44 15.6 8.4 12.6#



#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

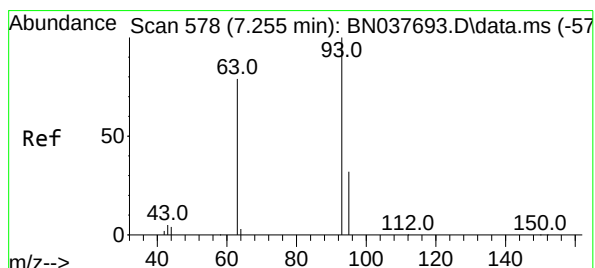
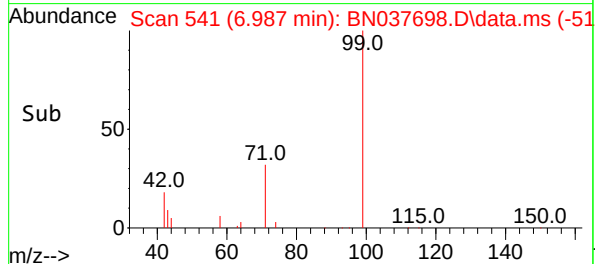
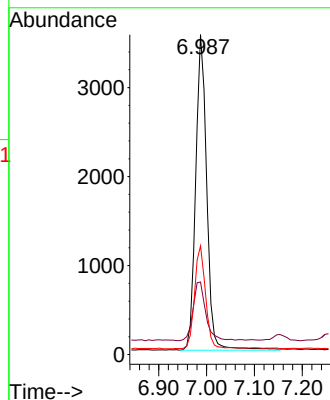
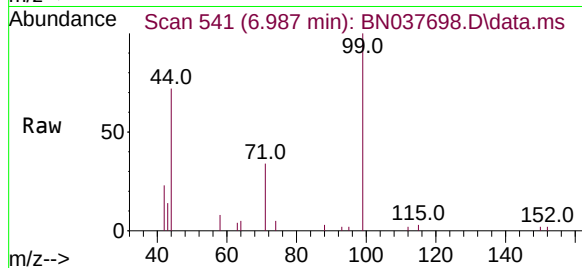




#5
Phenol-d6
Concen: 0.380 ng
RT: 6.987 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

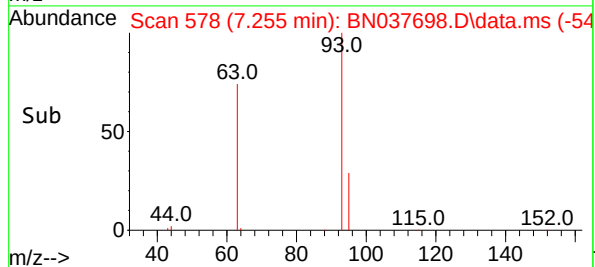
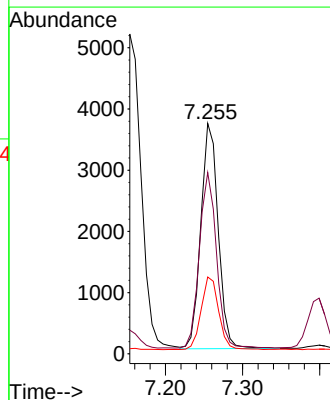
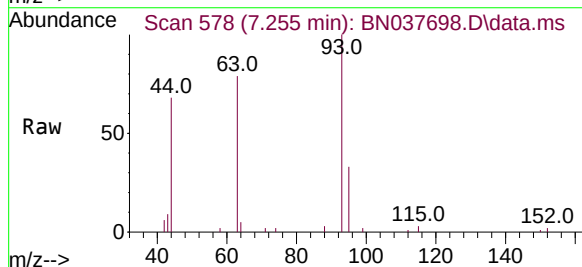
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

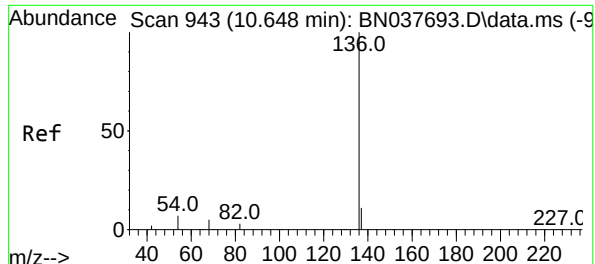
Tgt Ion: 99 Resp: 5691
Ion Ratio Lower Upper
99 100
42 21.3 16.6 24.8
71 32.6 26.7 40.1



#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

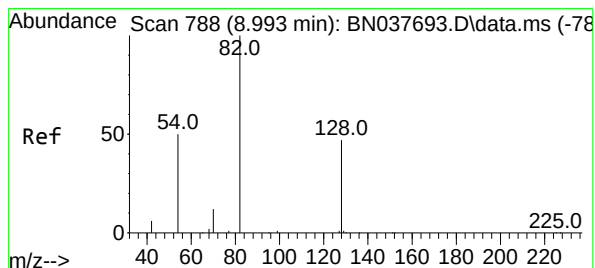
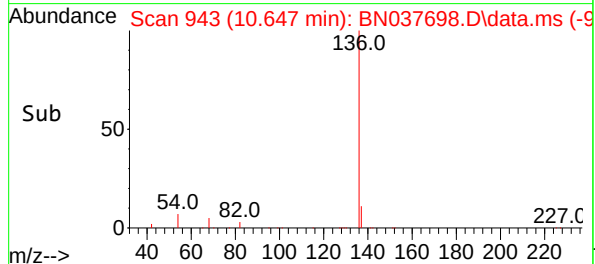
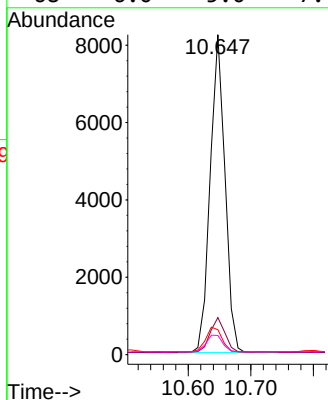
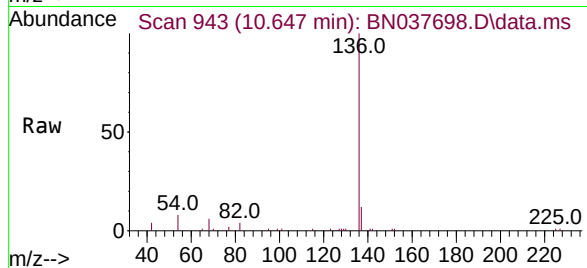




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.647 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

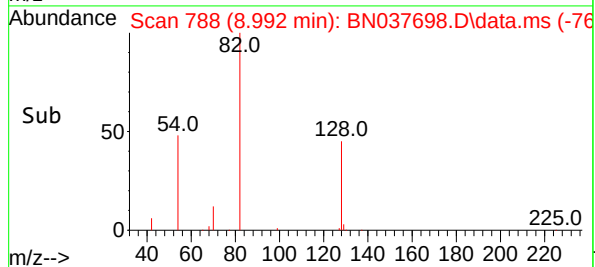
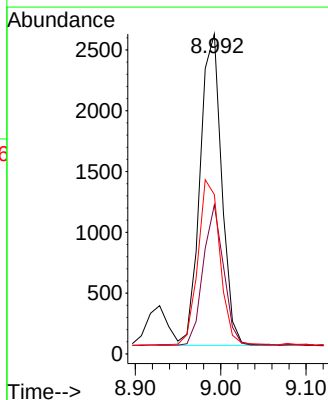
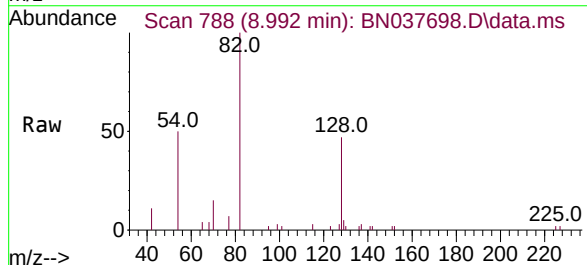
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

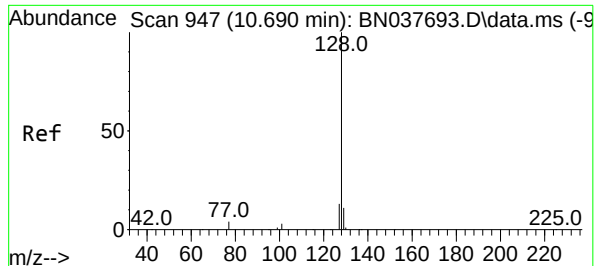
Tgt Ion:136	Resp:	13552
Ion Ratio	Lower	Upper
136	100	
137	11.6	9.1 13.7
54	7.8	6.3 9.5
68	6.0	5.0 7.4



#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

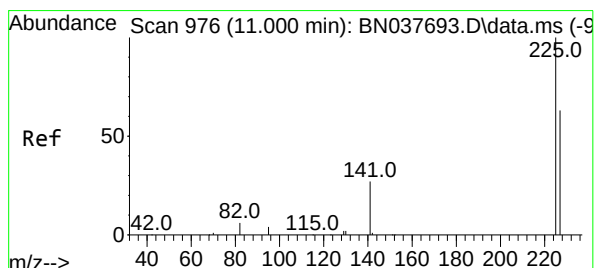
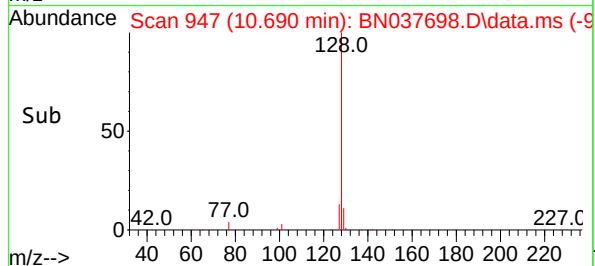
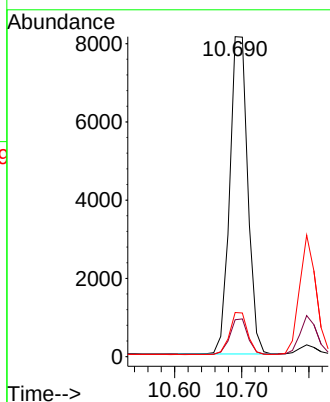
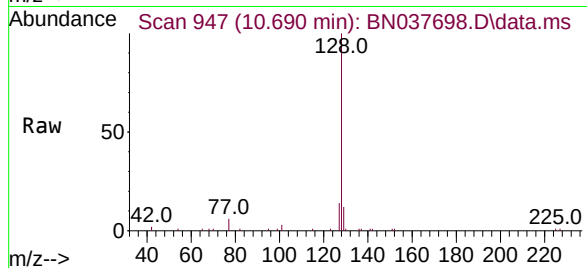




#9
Naphthalene
Concen: 0.409 ng
RT: 10.690 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

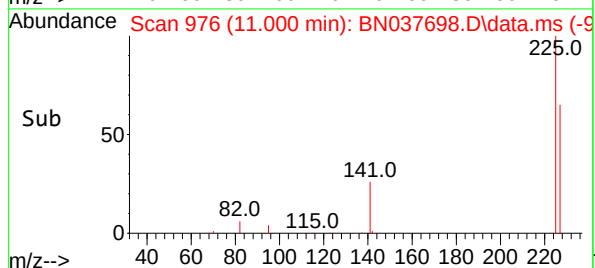
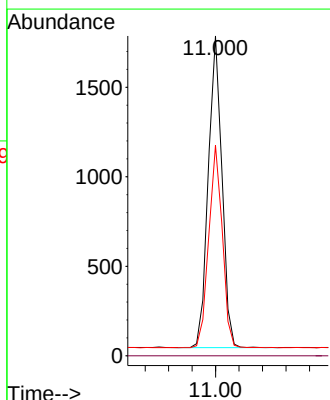
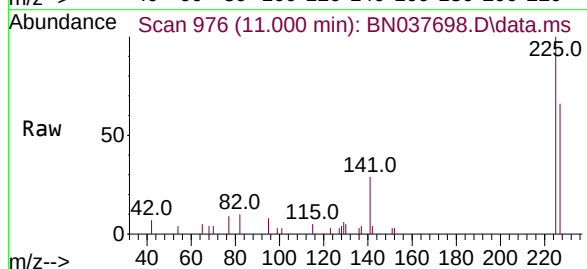
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

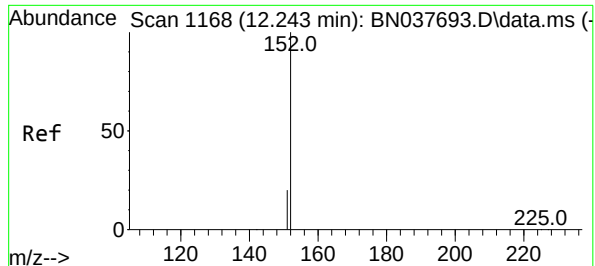
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.1	13.7
127	13.8	10.9	16.3



#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	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.2	50.9	76.3

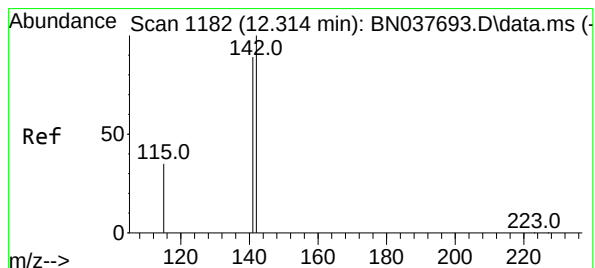
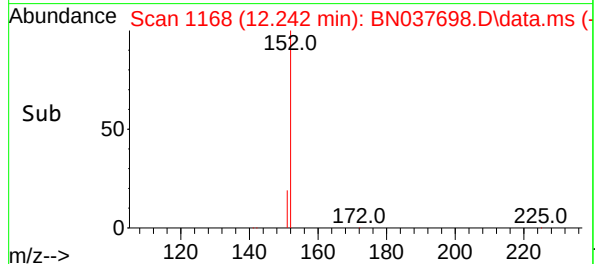
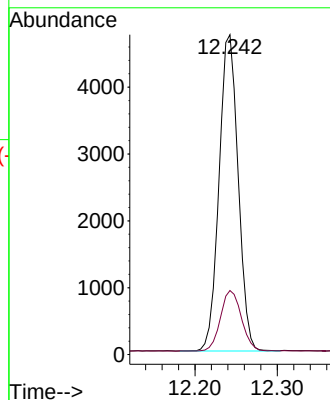
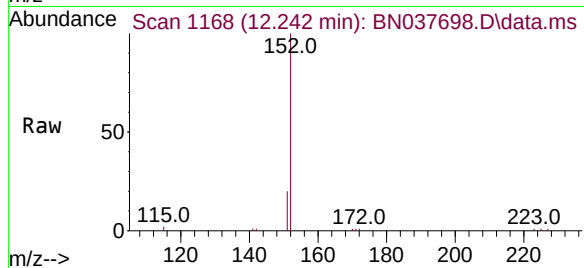




#11
2-Methylnaphthalene-d10
Concen: 0.425 ng
RT: 12.242 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

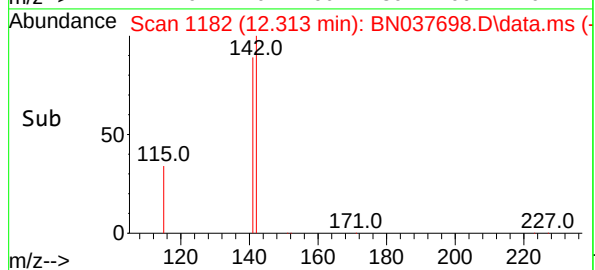
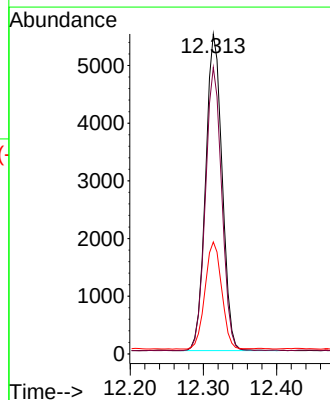
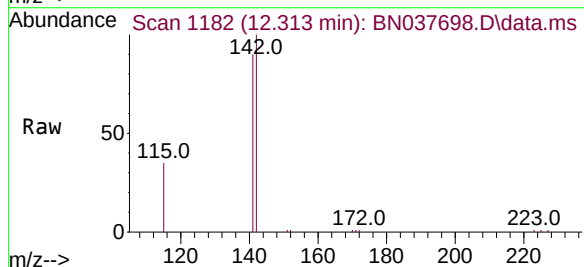
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

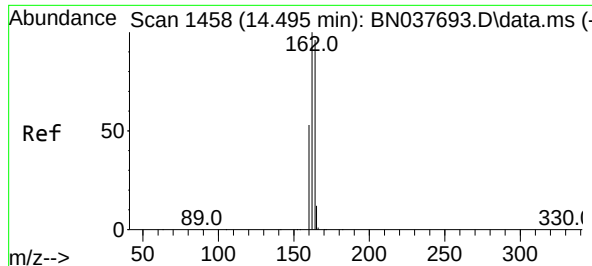
Tgt Ion:152 Resp: 7632
Ion Ratio Lower Upper
152 100
151 20.9 17.0 25.6



#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

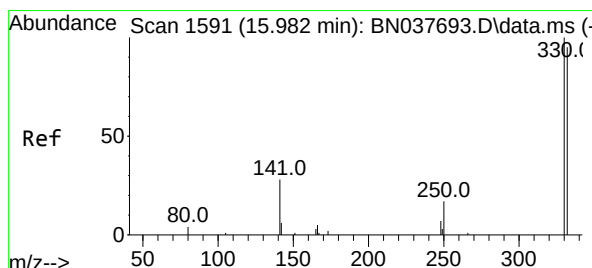
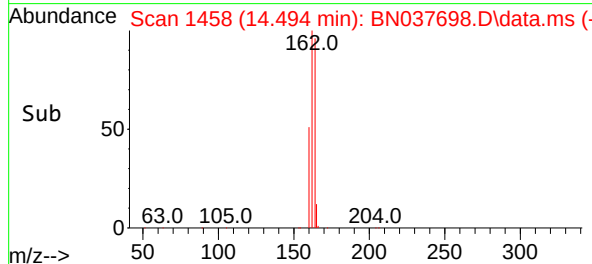
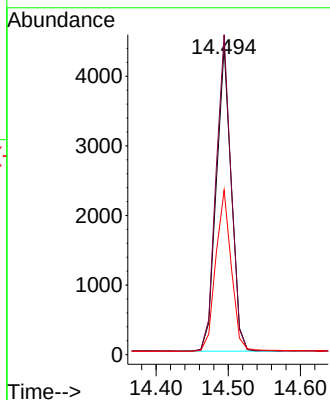
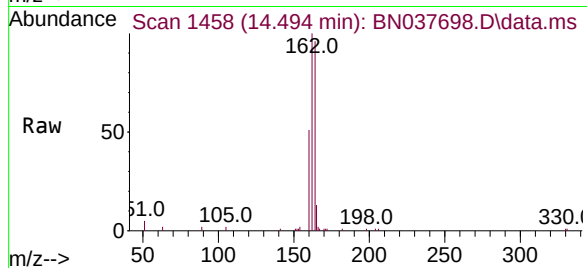




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

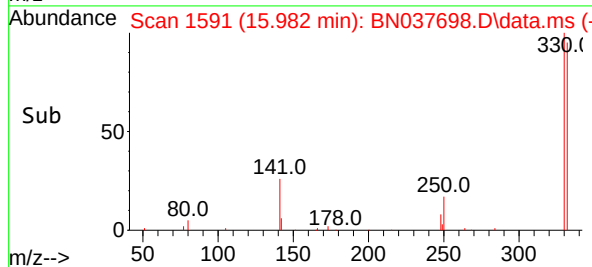
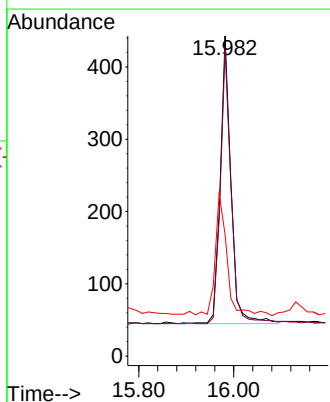
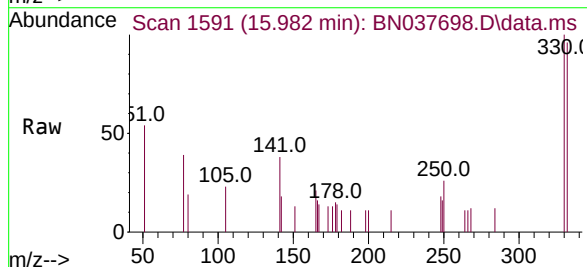
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

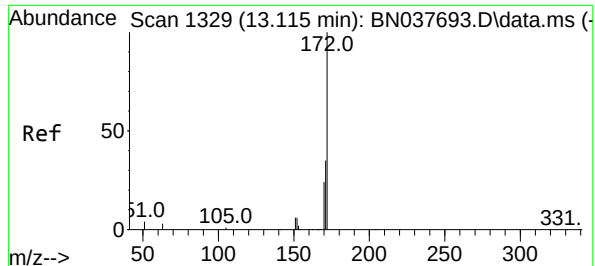
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.9	83.1	124.7
160	53.4	44.3	66.5



#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

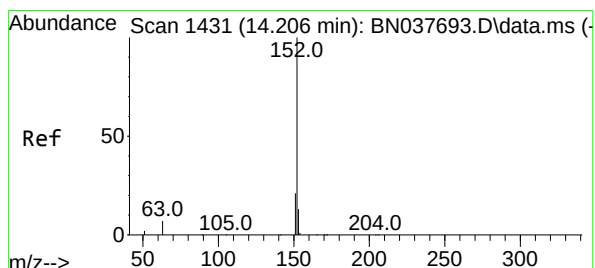
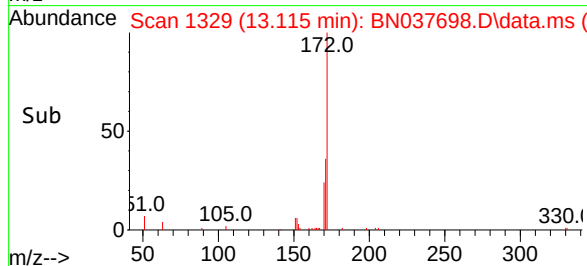
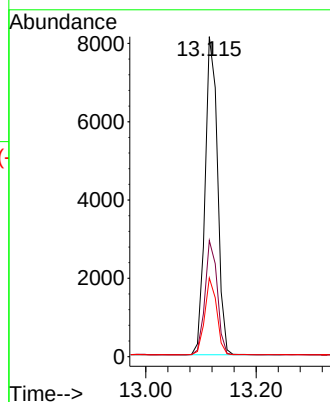
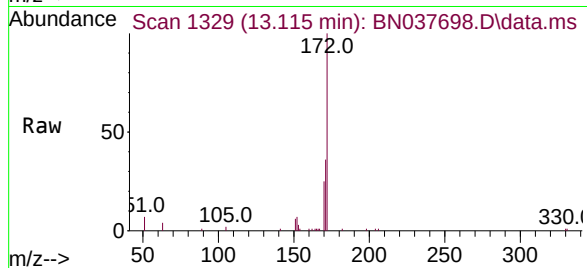
Tgt Ion:172 Resp: 12687

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

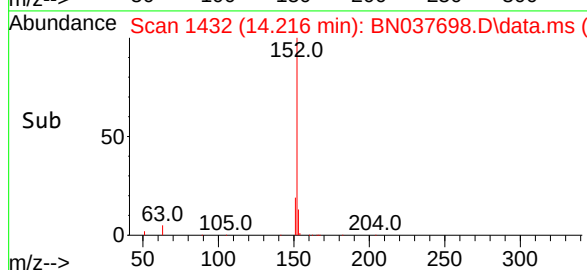
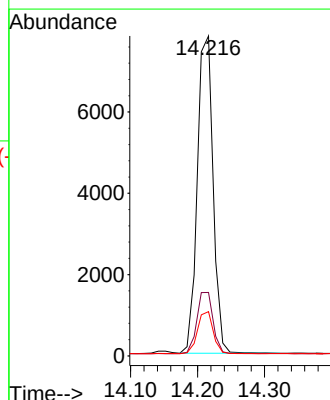
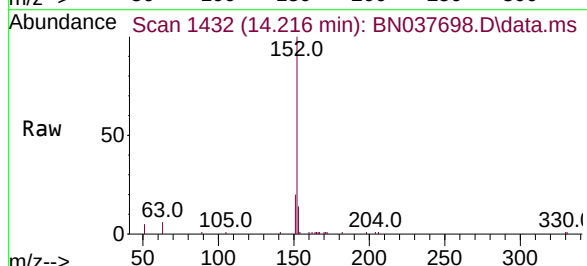
Tgt Ion:152 Resp: 12785

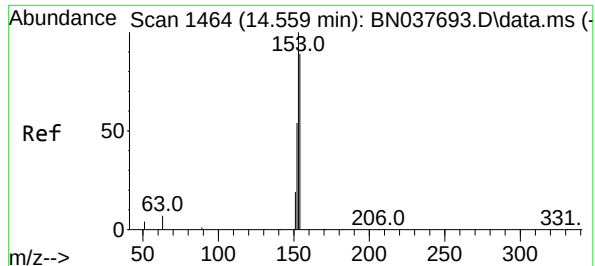
Ion Ratio Lower Upper

152 100

151 20.0 16.2 24.2

153 13.2 10.4 15.6

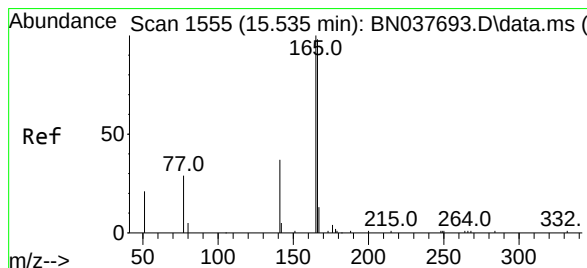
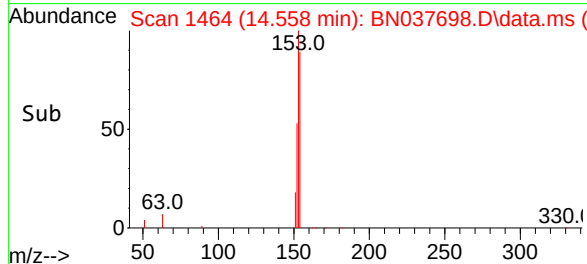
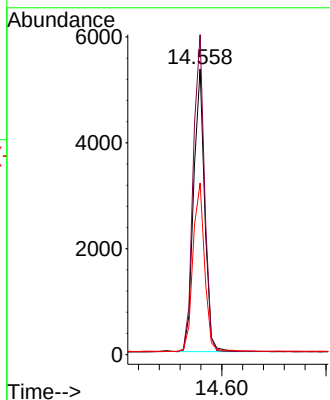
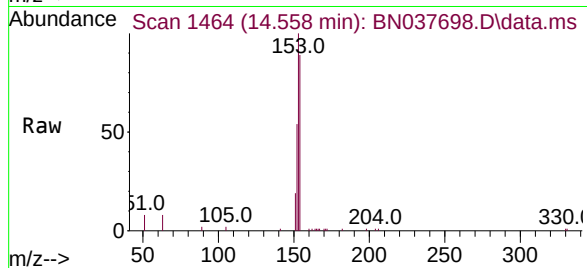




#17
Acenaphthene
Concen: 0.397 ng
RT: 14.558 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

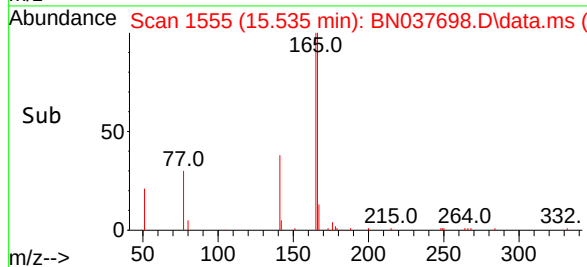
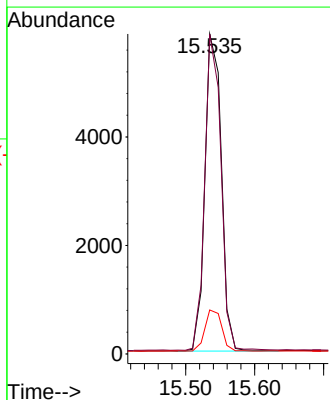
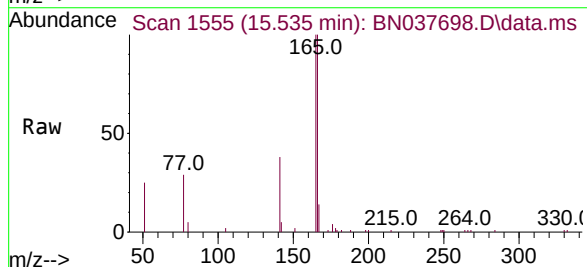
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

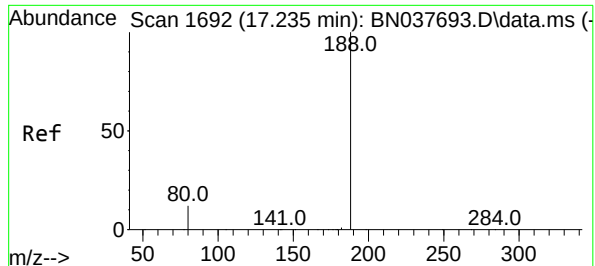
Tgt Ion:154 Resp: 7838
Ion Ratio Lower Upper
154 100
153 114.1 89.8 134.8
152 63.0 50.2 75.2



#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

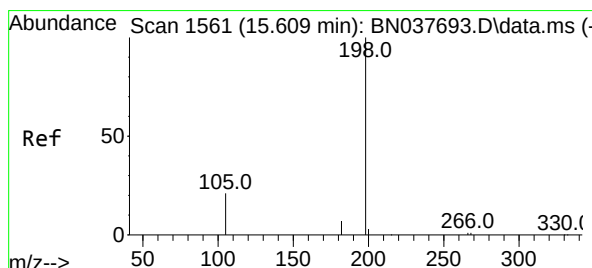
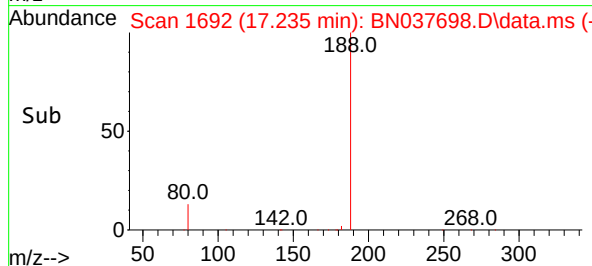
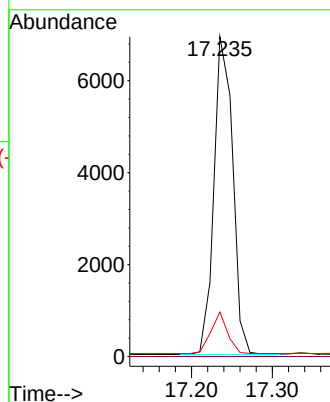
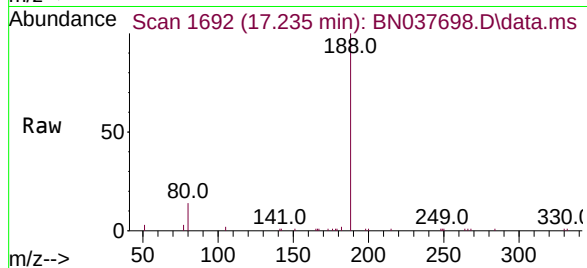
Tgt Ion:188 Resp: 11165

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

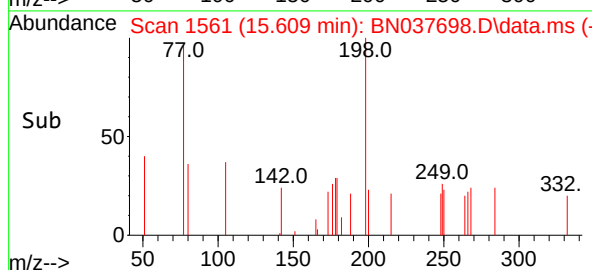
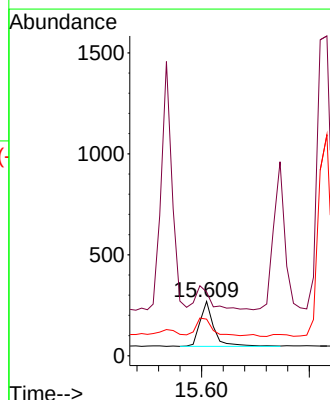
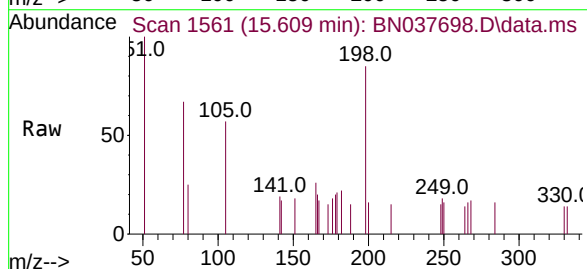
Tgt Ion:198 Resp: 392

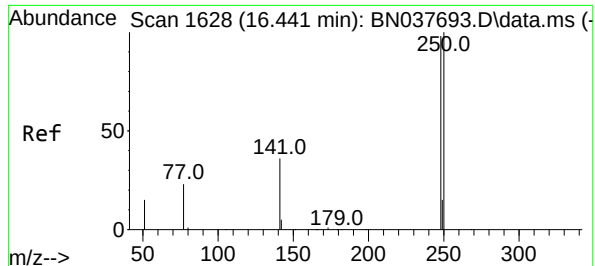
Ion Ratio Lower Upper

198 100

51 117.5 95.1 142.7

105 67.3 53.8 80.6

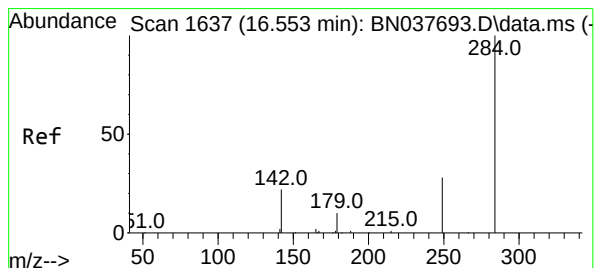
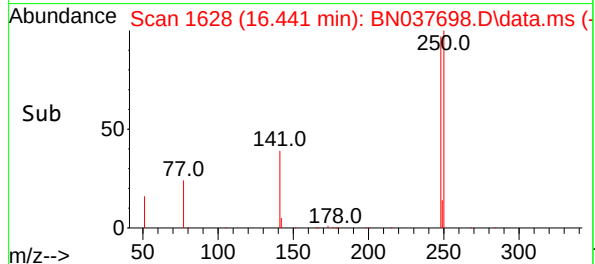
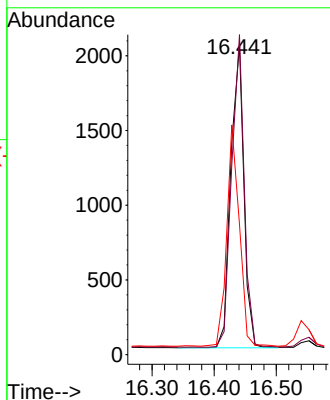
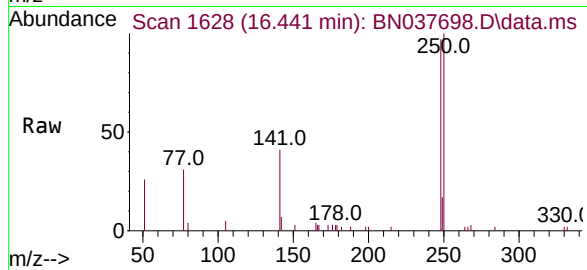




#21
4-Bromophenyl-phenylether
Concen: 0.409 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

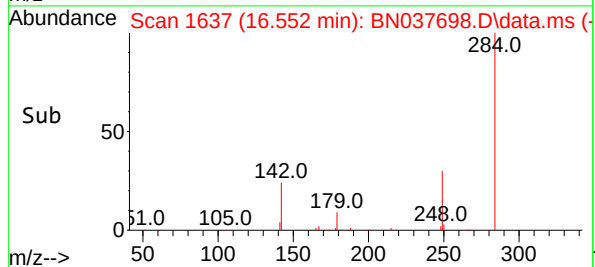
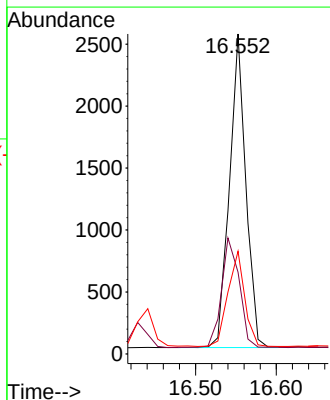
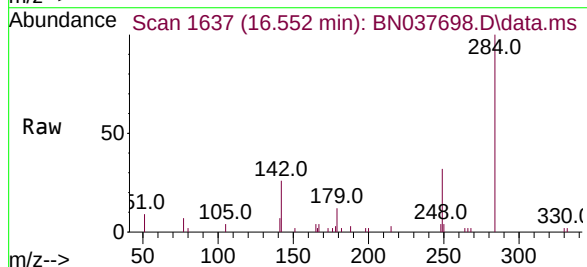
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

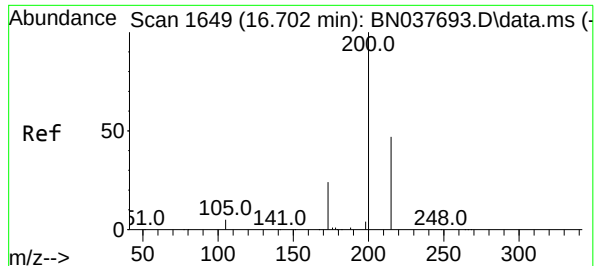
Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.5	81.5	122.3
141	42.2	30.8	46.2



#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

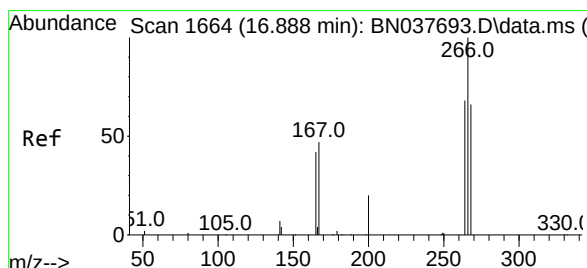
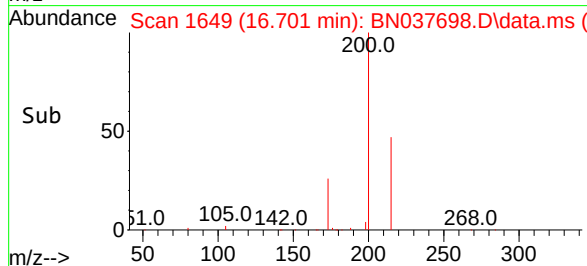
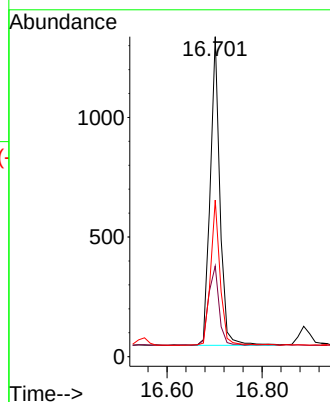
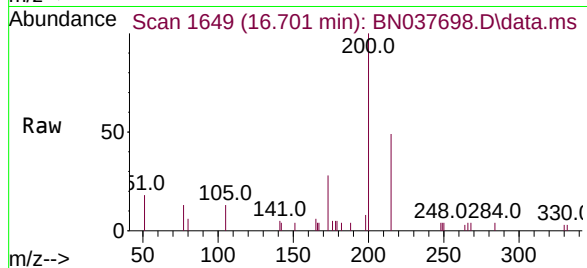
Tgt Ion:200 Resp: 1828

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

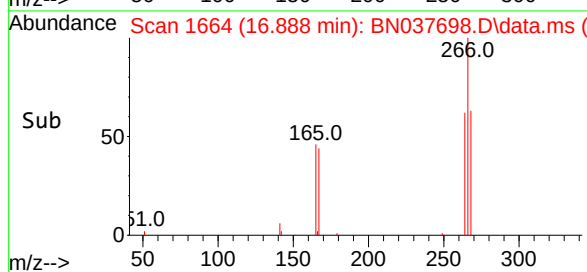
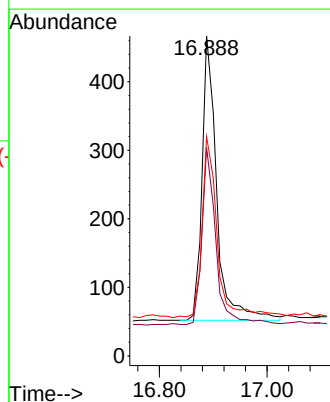
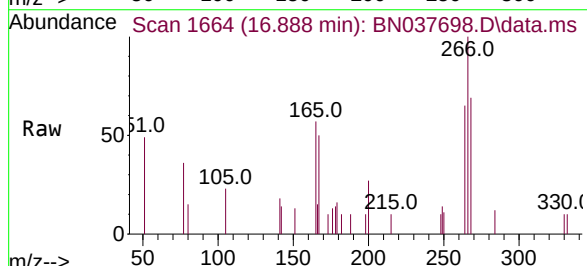
Tgt Ion:266 Resp: 785

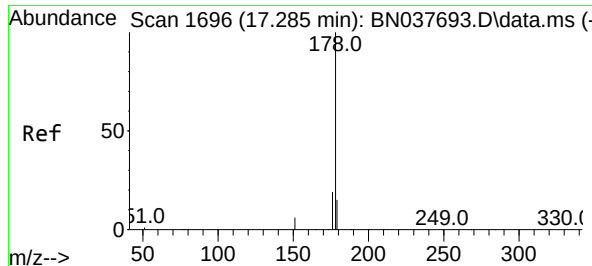
Ion Ratio Lower Upper

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

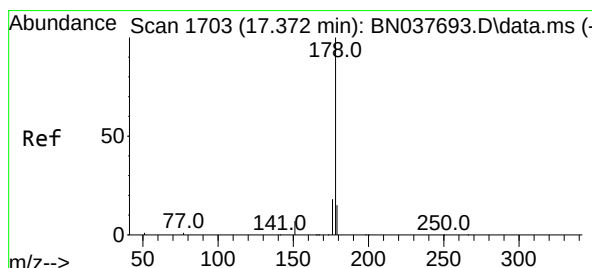
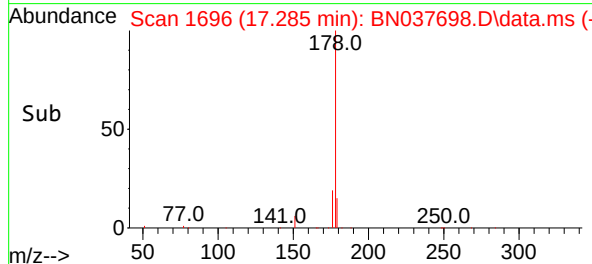
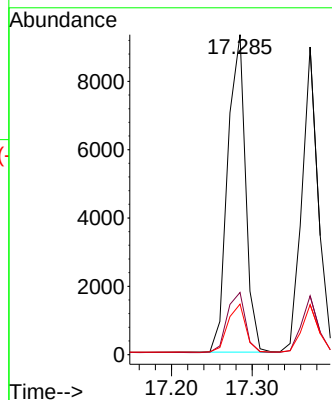
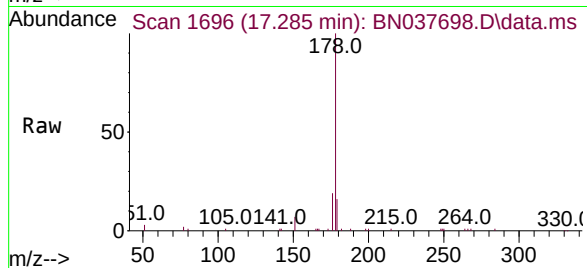
Tgt Ion:178 Resp: 14262

Ion Ratio Lower Upper

178 100

176 19.4 15.3 22.9

179 15.6 12.2 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

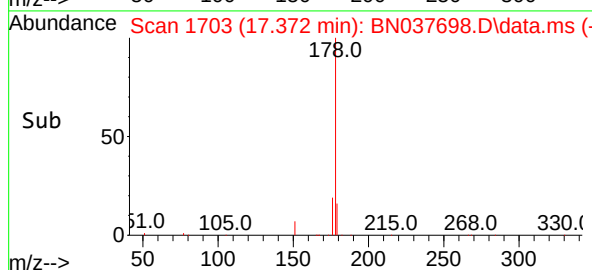
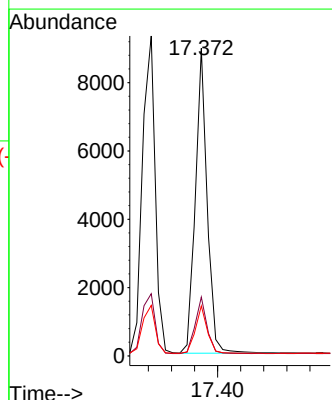
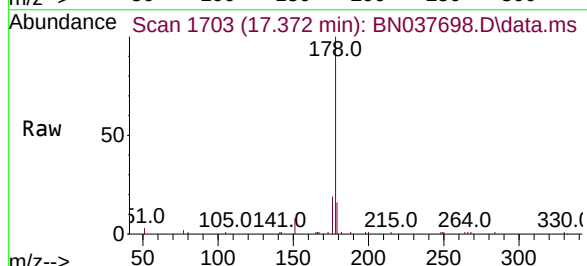
Tgt Ion:178 Resp: 12642

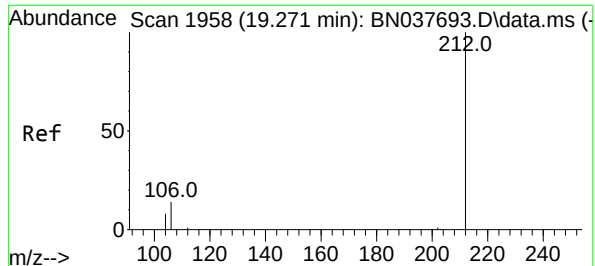
Ion Ratio Lower Upper

178 100

176 18.6 14.6 22.0

179 15.7 12.2 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

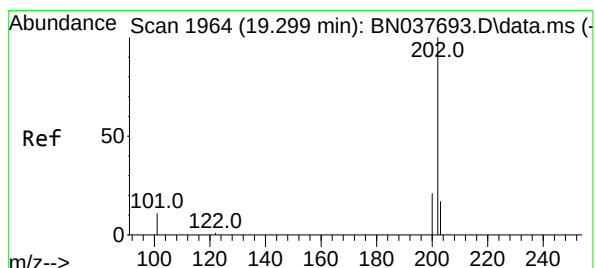
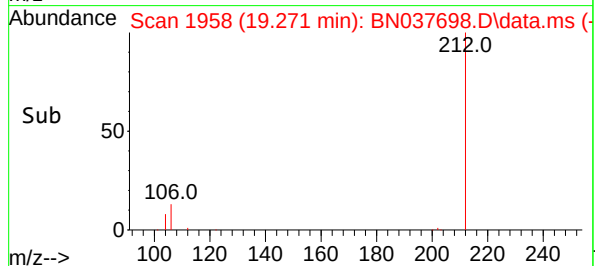
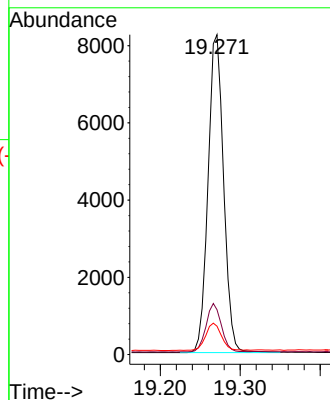
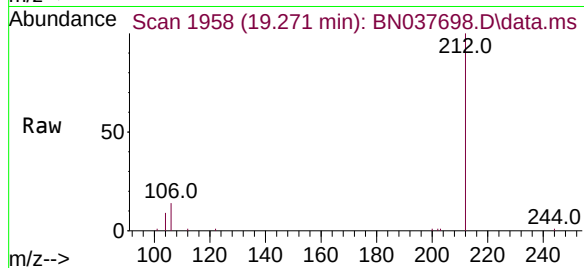
Tgt Ion:212 Resp: 11138

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

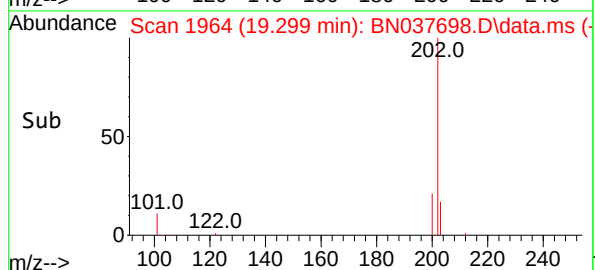
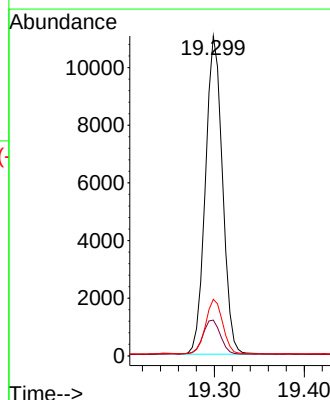
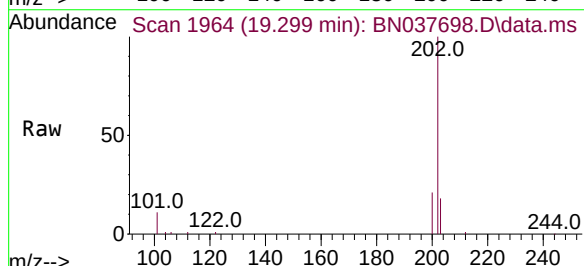
Tgt Ion:202 Resp: 14471

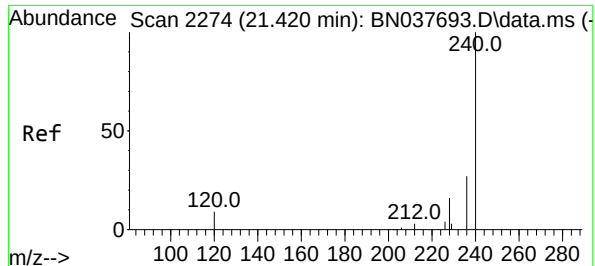
Ion Ratio Lower Upper

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

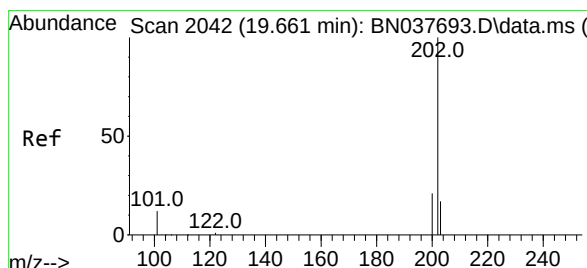
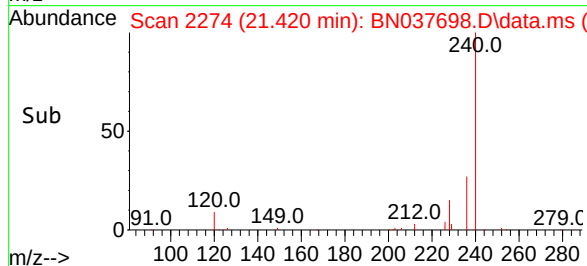
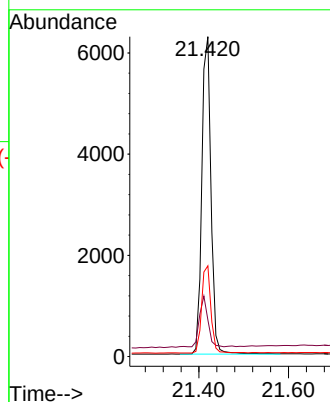
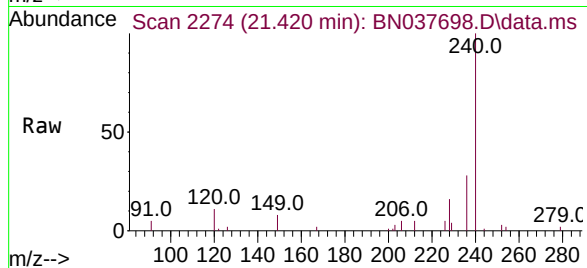
Tgt Ion:240 Resp: 8931

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

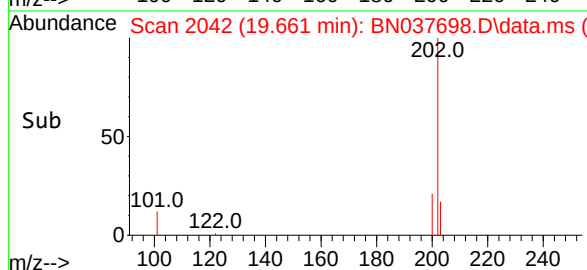
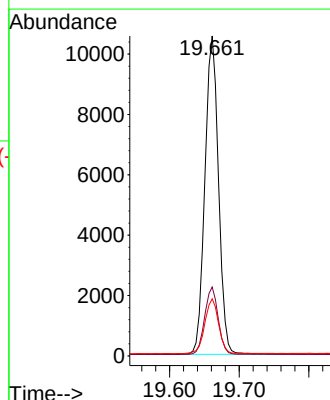
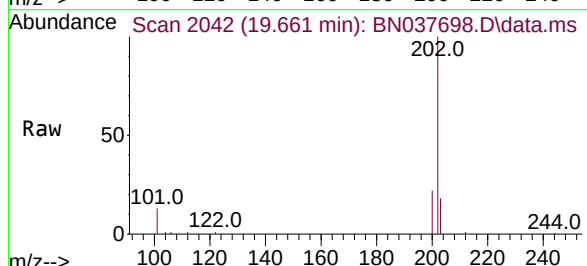
Tgt Ion:202 Resp: 14323

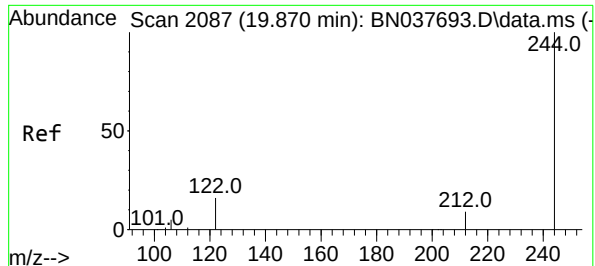
Ion Ratio Lower Upper

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

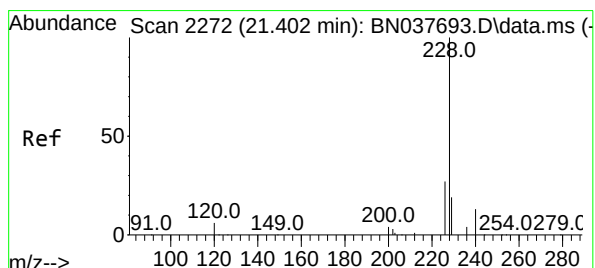
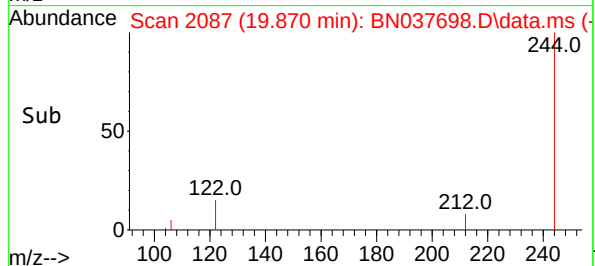
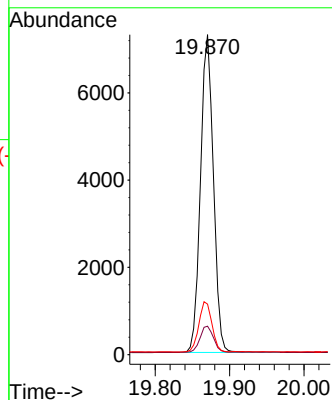
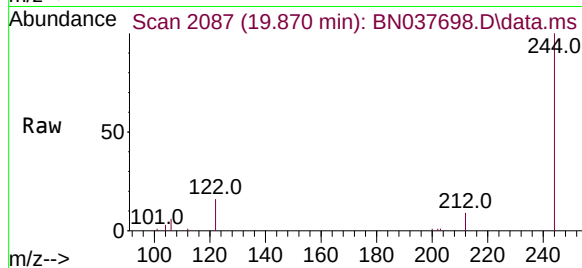
Tgt Ion:244 Resp: 8765

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

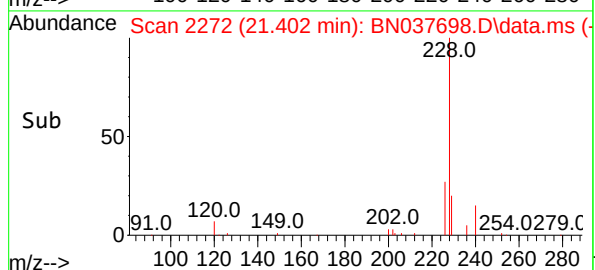
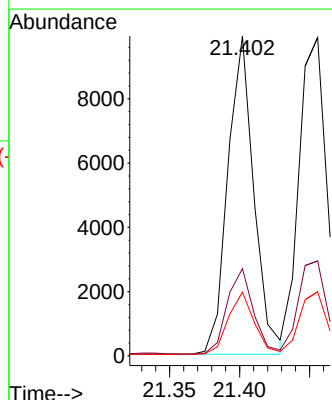
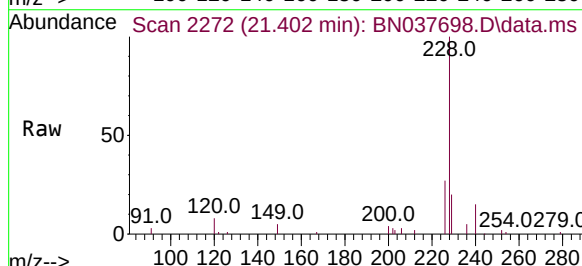
Tgt Ion:228 Resp: 12803

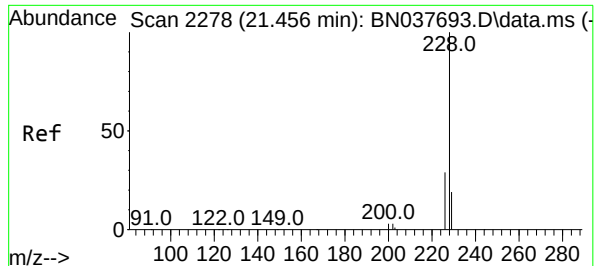
Ion Ratio Lower Upper

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

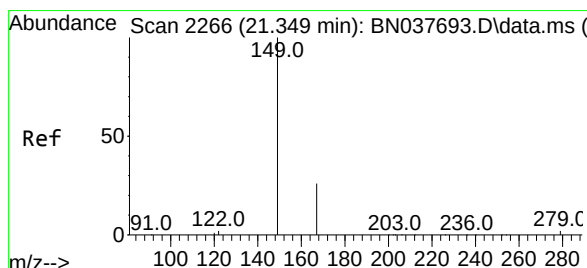
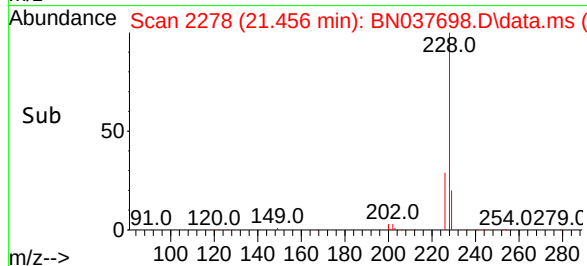
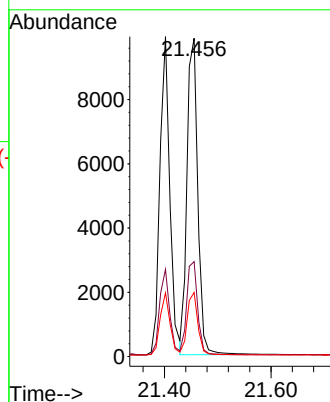
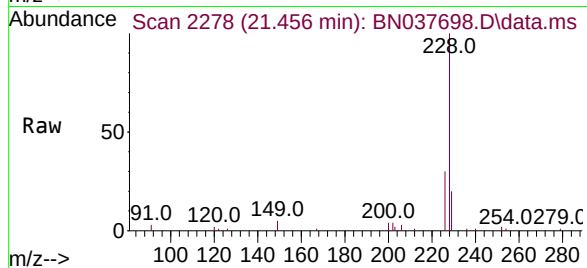
Tgt Ion:228 Resp: 13963

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

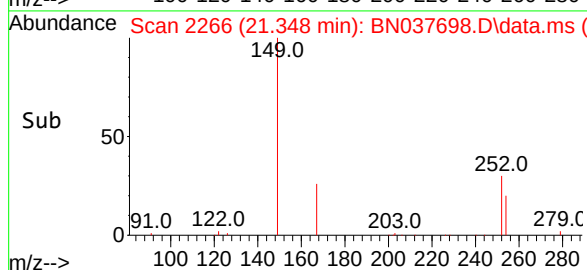
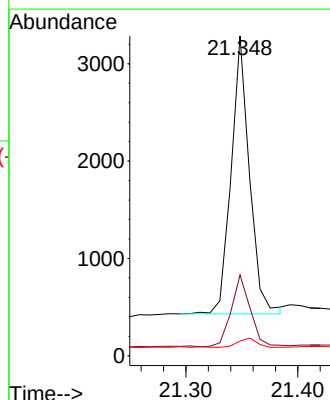
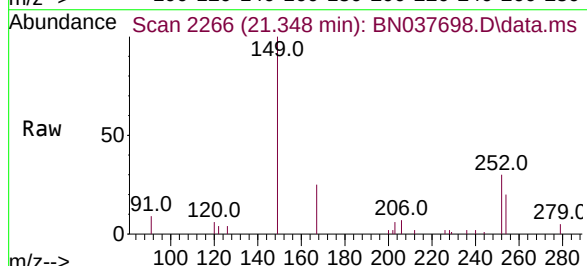
Tgt Ion:149 Resp: 3245

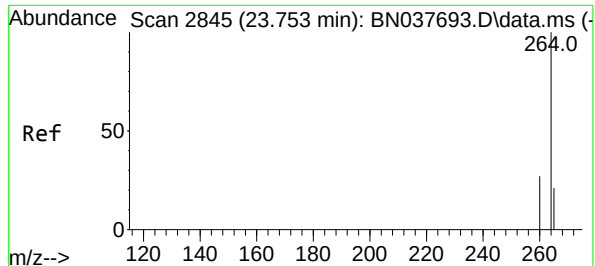
Ion Ratio Lower Upper

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

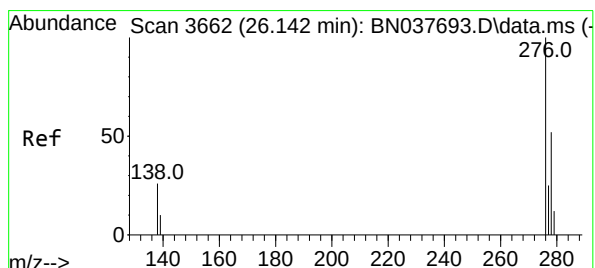
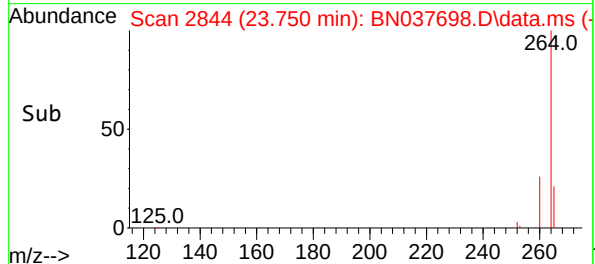
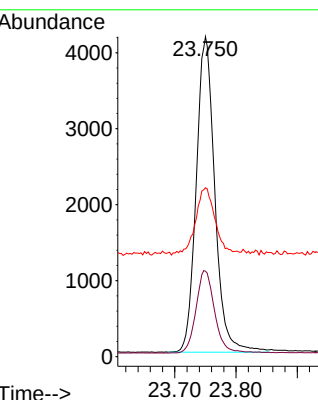
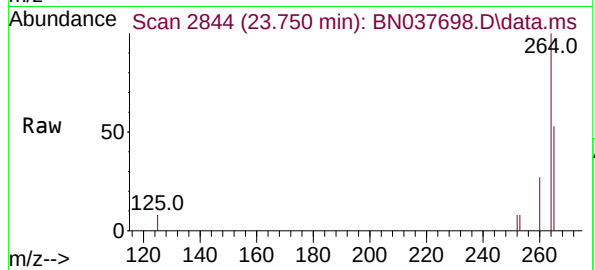
Tgt Ion:264 Resp: 8751

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

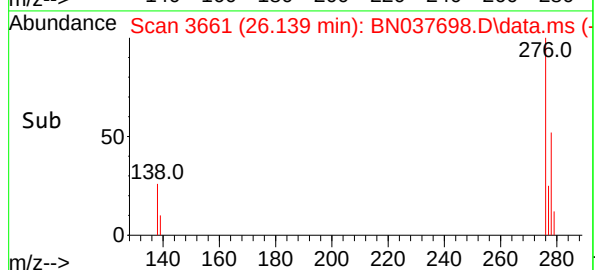
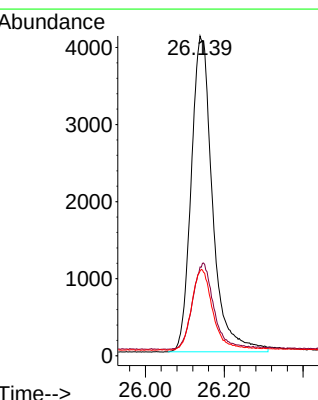
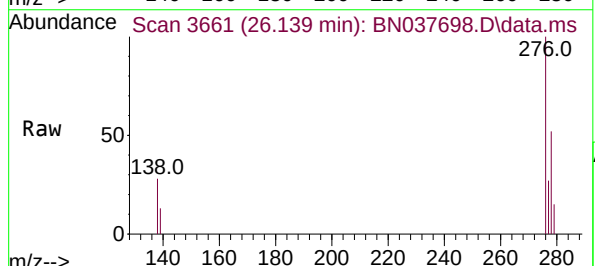
Tgt Ion:276 Resp: 15430

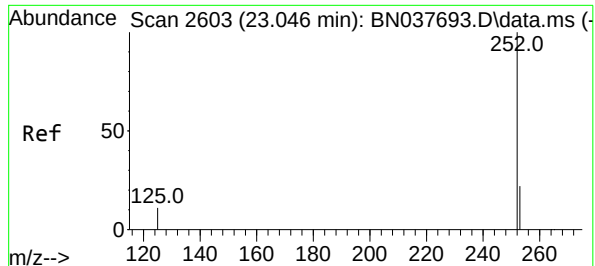
Ion Ratio Lower Upper

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

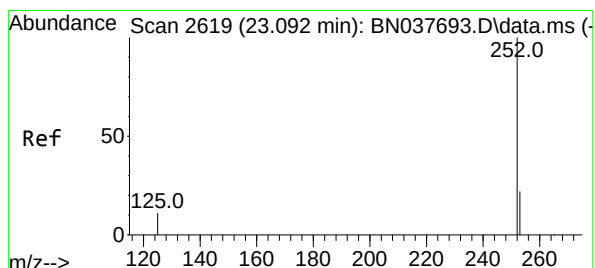
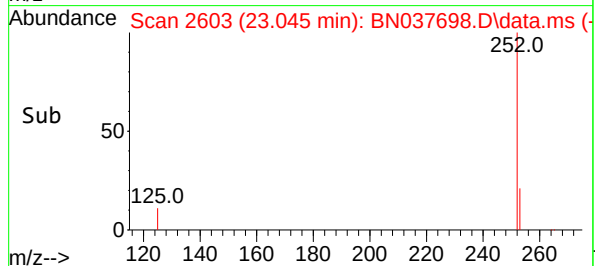
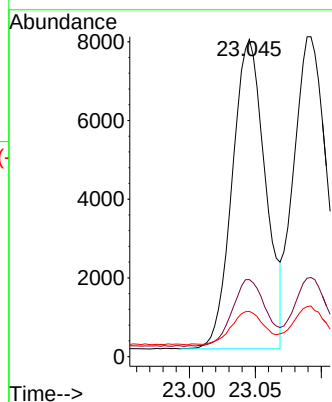
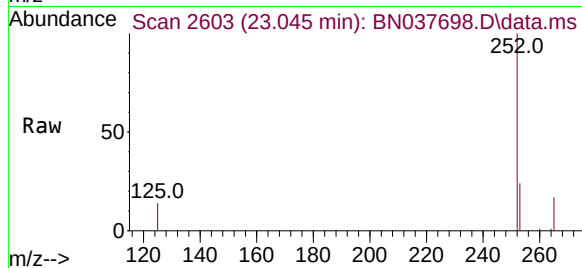
Tgt Ion:252 Resp: 13718

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

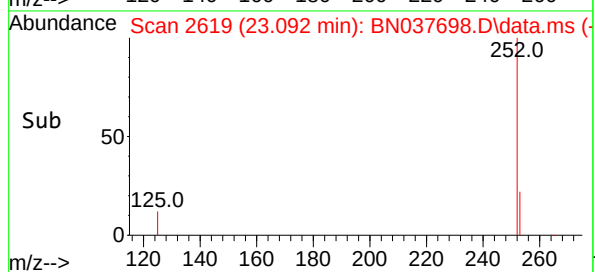
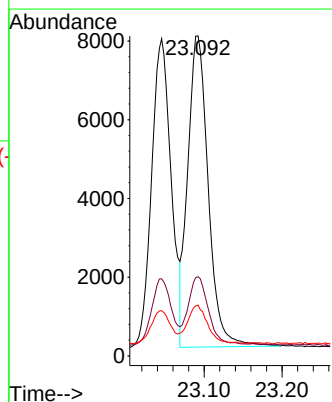
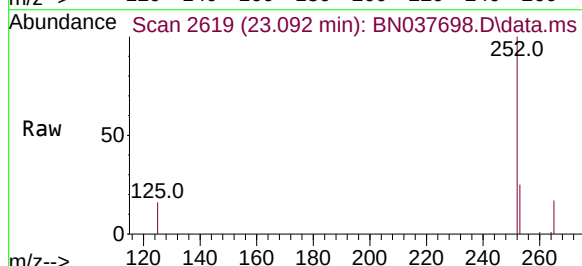
Tgt Ion:252 Resp: 14465

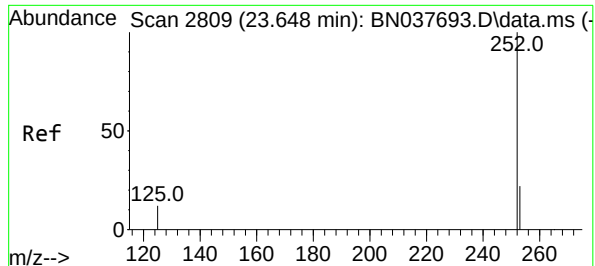
Ion Ratio Lower Upper

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

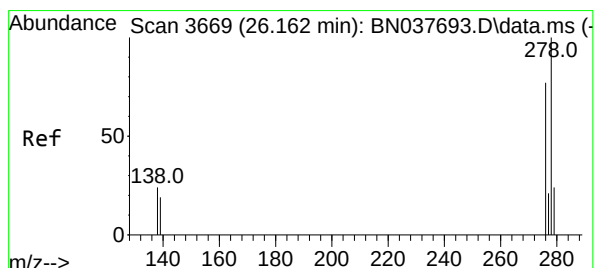
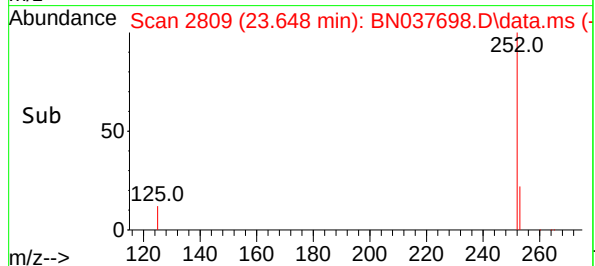
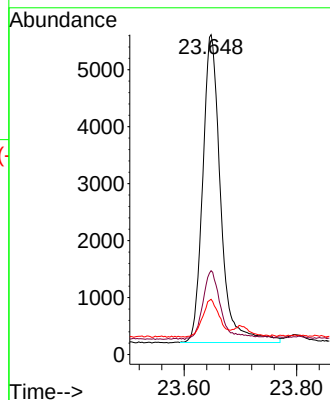
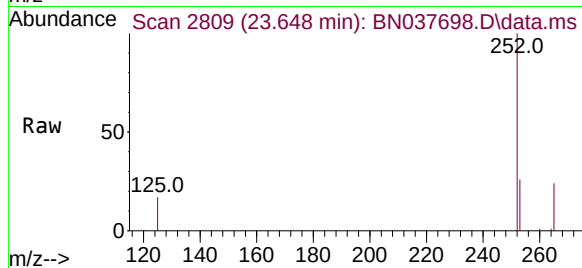
Tgt Ion:252 Resp: 11950

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

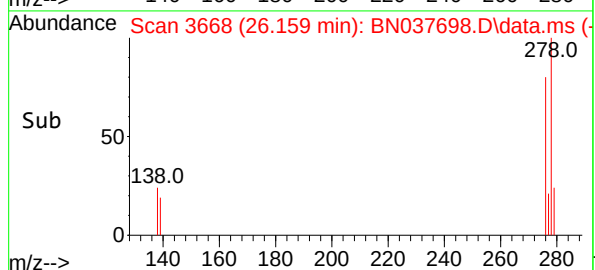
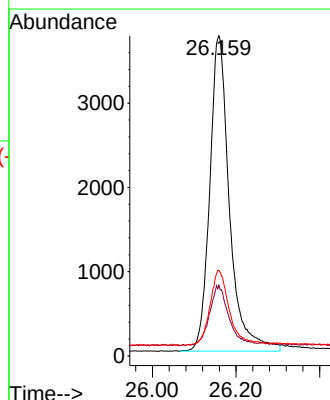
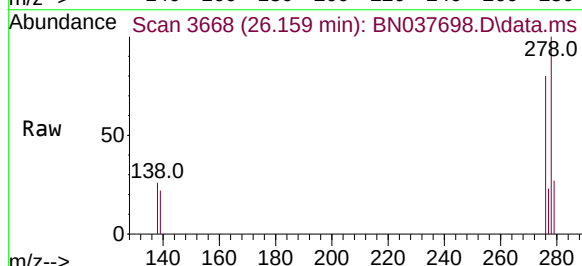
Tgt Ion:278 Resp: 12290

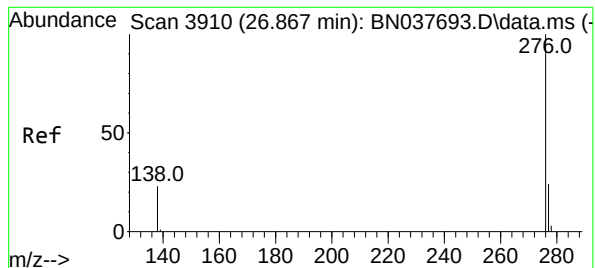
Ion Ratio Lower Upper

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# 3910

Delta R.T. -0.003 min

Lab File: BN037698.D

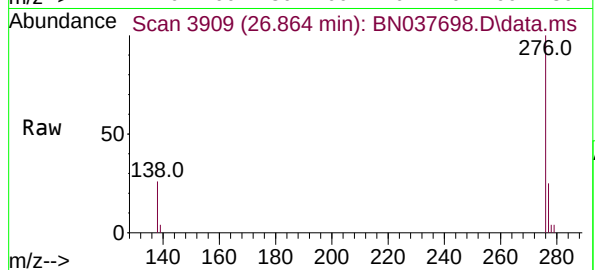
Acq: 11 Sep 2025 14:09

Instrument :

BNA_N

ClientSampleId :

ICVBN091125



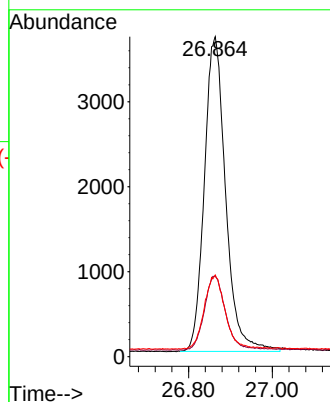
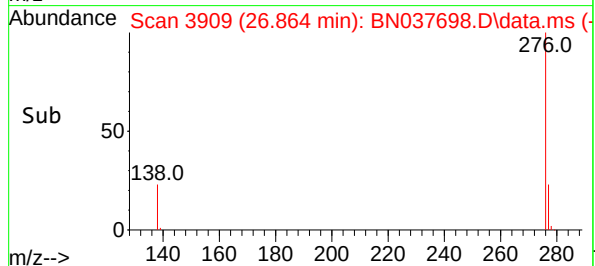
Tgt Ion:276 Resp: 13095

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 :
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	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: Alliance Contract: AECO15
 Lab Code: ACE SDG No.: Q3127
 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

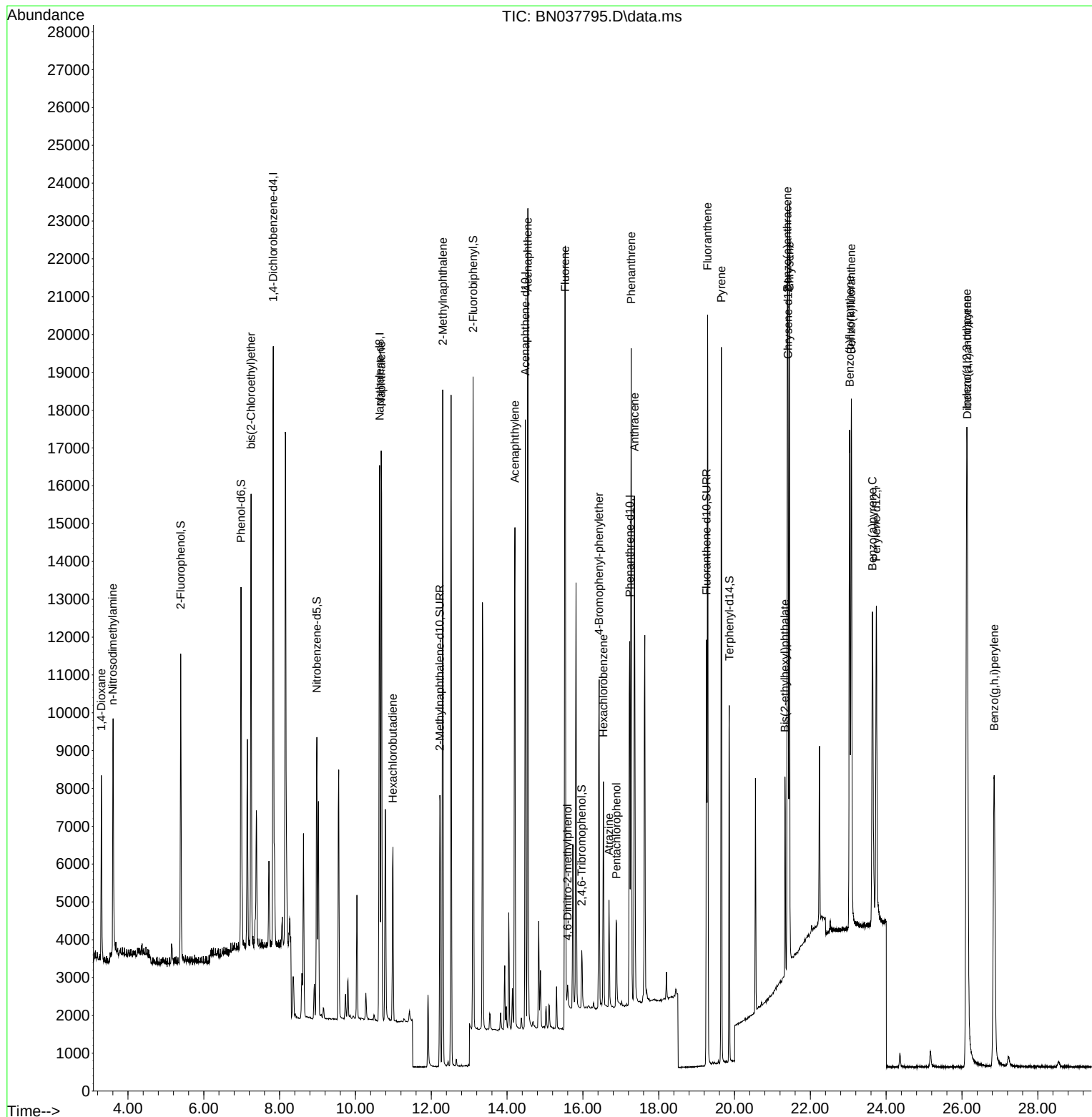
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7724	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	19361	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	8621	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	14380	0.400	ng	# 0.00
29) Chrysene-d12	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						
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

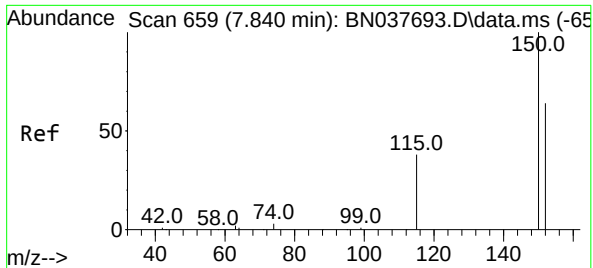
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037795.D
Acq On : 19 Sep 2025 02:47
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

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

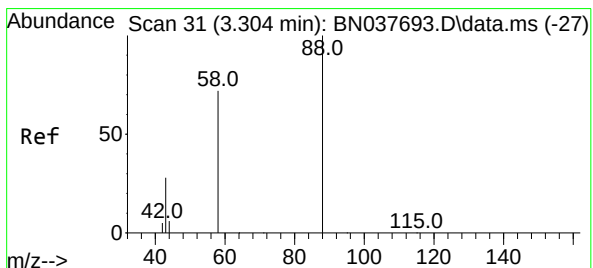
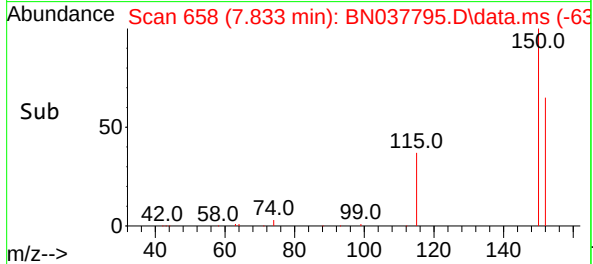
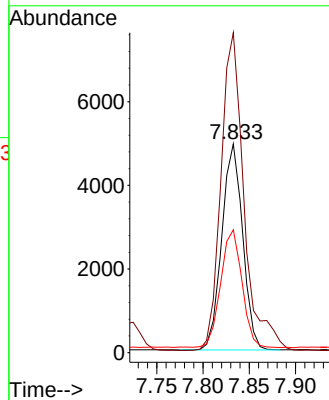
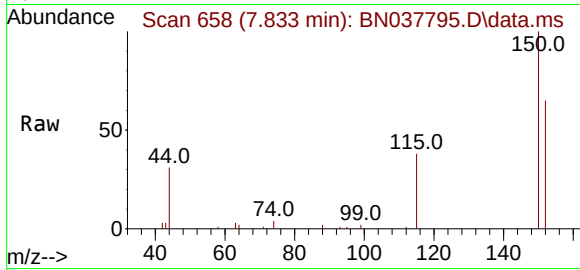




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

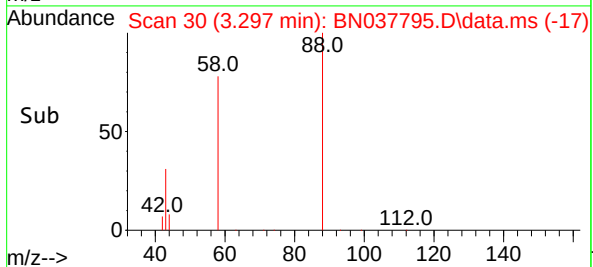
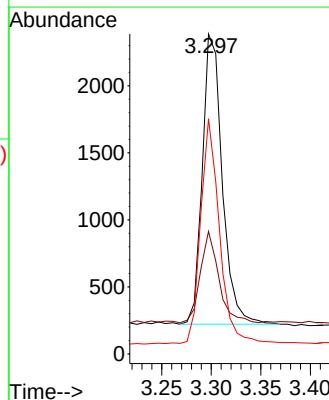
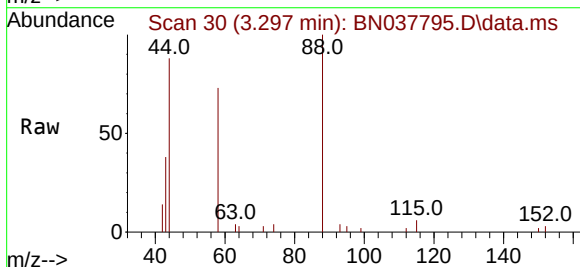
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

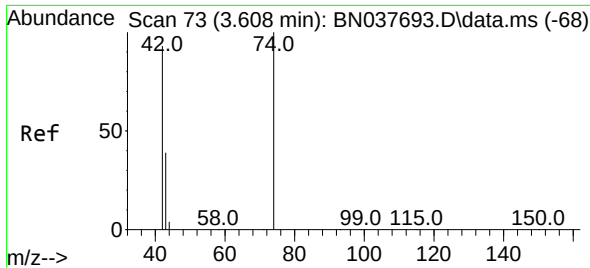
Tgt Ion:152 Resp: 7724
Ion Ratio Lower Upper
152 100
150 153.2 124.5 186.7
115 58.8 49.2 73.8



#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

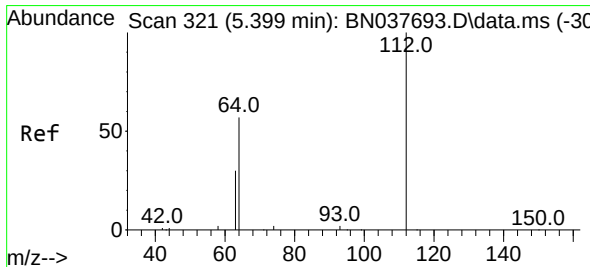
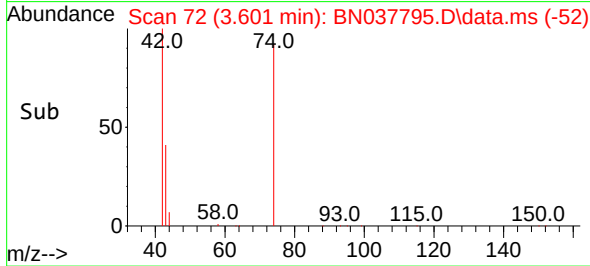
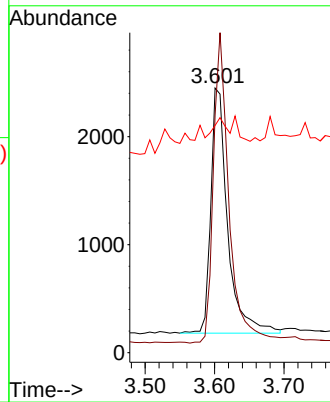
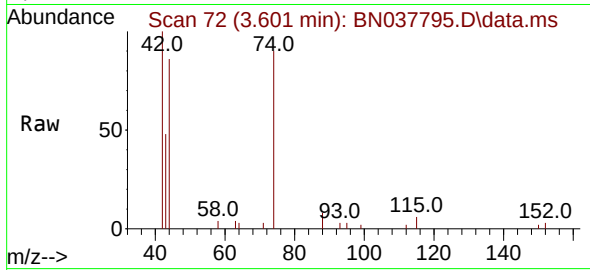




#3
n-Nitrosodimethylamine
Concen: 0.365 ng
RT: 3.601 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

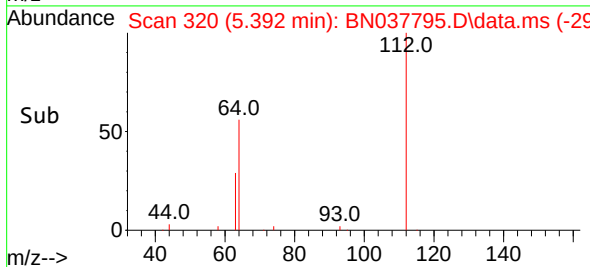
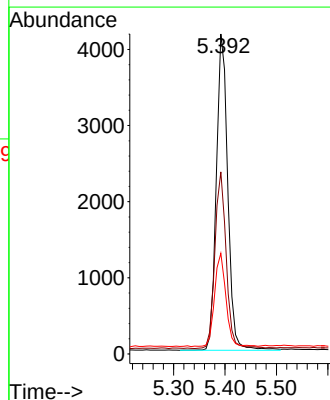
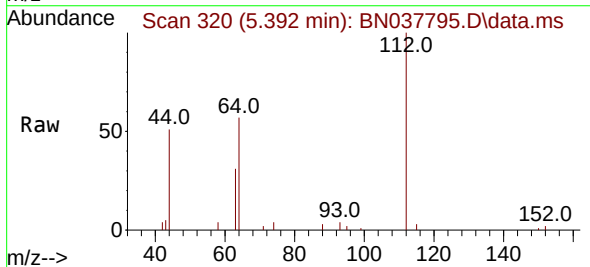
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

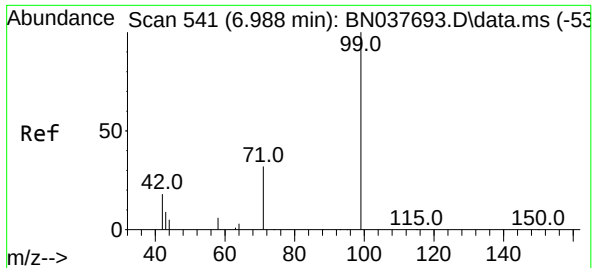
Tgt Ion: 42 Resp: 3835
Ion Ratio Lower Upper
42 100
74 117.9 86.0 129.0
44 5.8 8.4 12.6#



#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

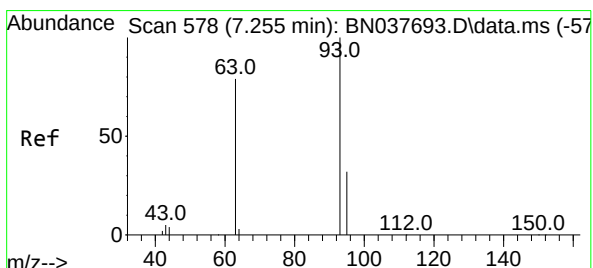
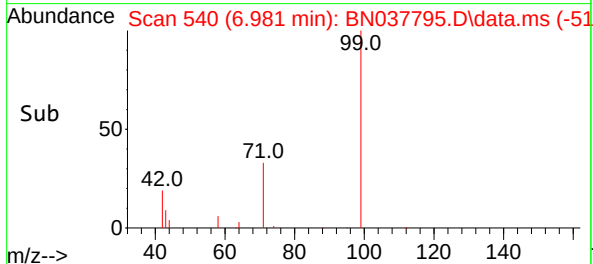
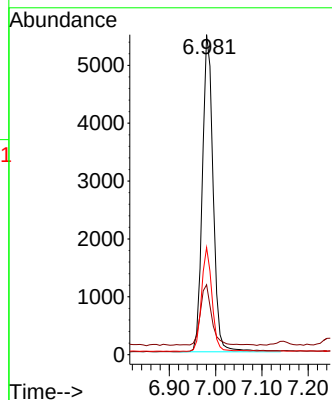
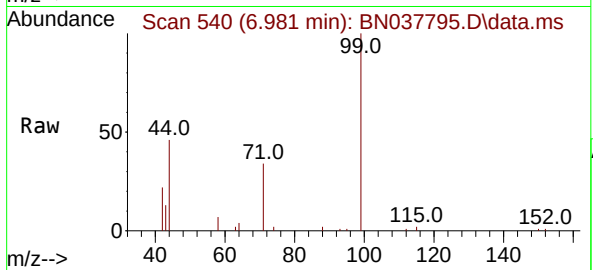




#5
Phenol-d6
Concen: 0.387 ng
RT: 6.981 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

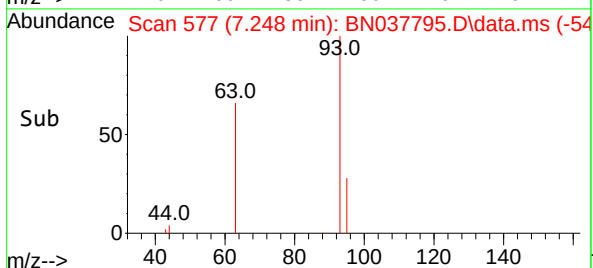
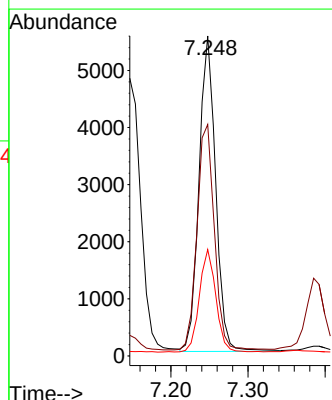
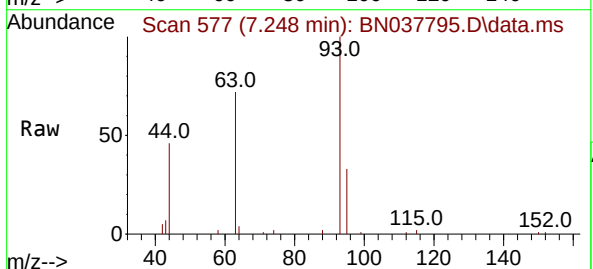
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

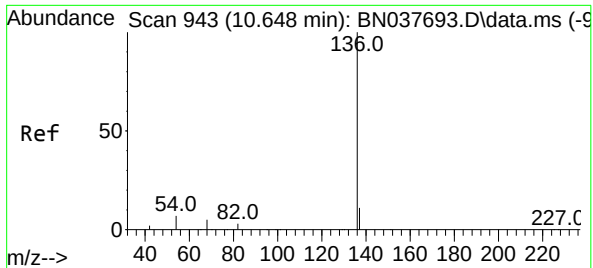
Tgt Ion: 99 Resp: 8898
Ion Ratio Lower Upper
99 100
42 20.3 16.6 24.8
71 31.9 26.7 40.1



#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

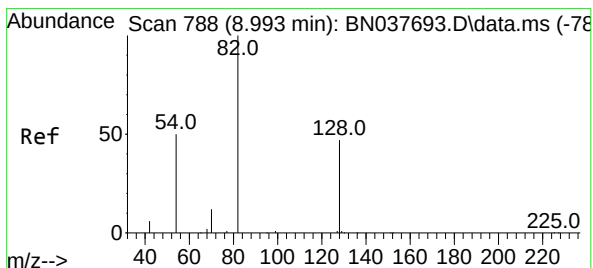
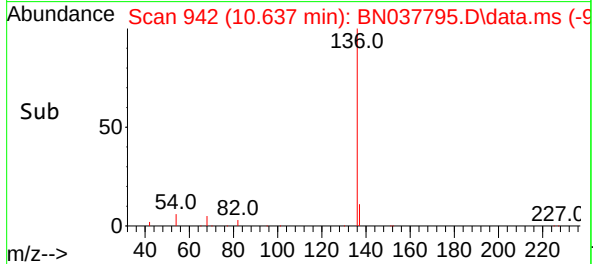
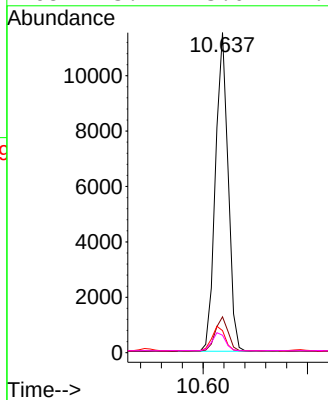
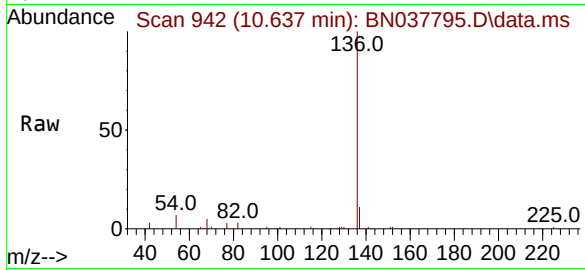




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

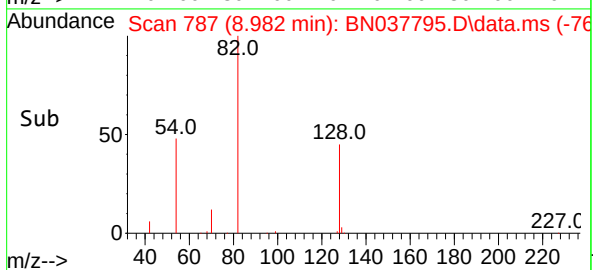
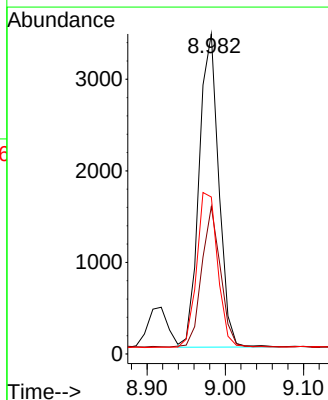
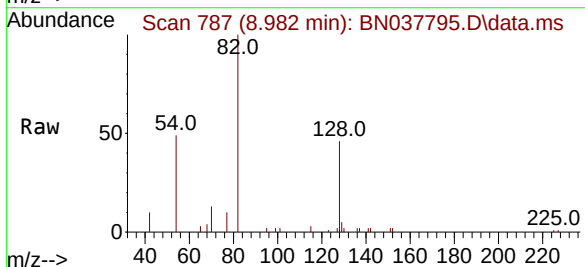
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

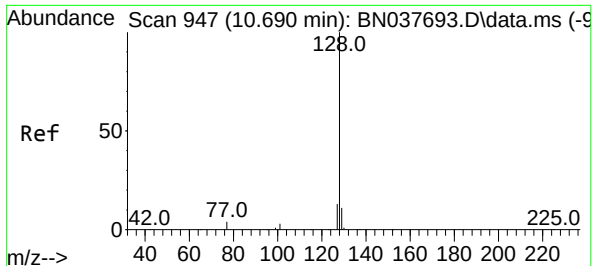
Tgt Ion:	136	Resp:	19361
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	6.9	6.3	9.5
68	5.4	5.0	7.4



#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

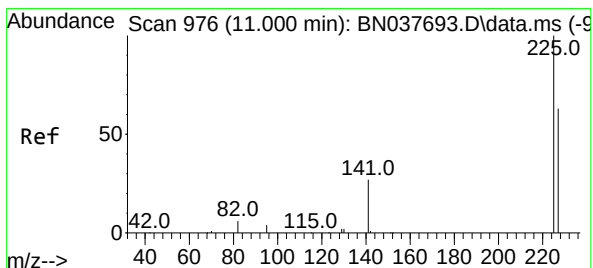
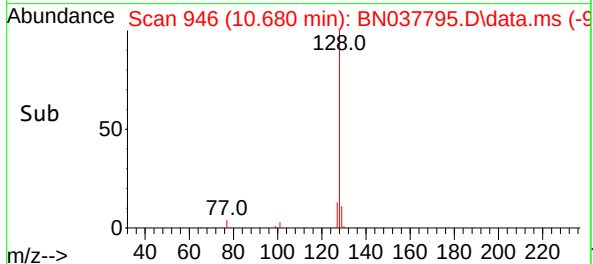
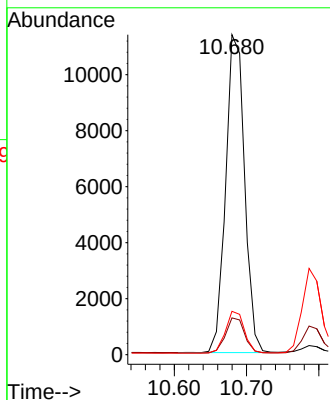
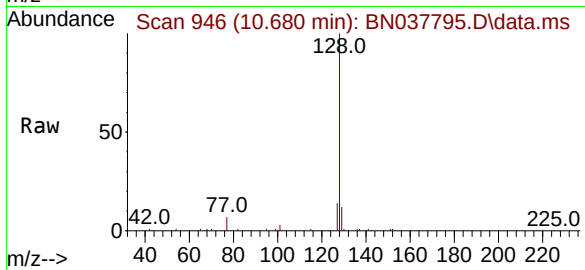




#9
Naphthalene
Concen: 0.390 ng
RT: 10.680 min Scan# 946
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

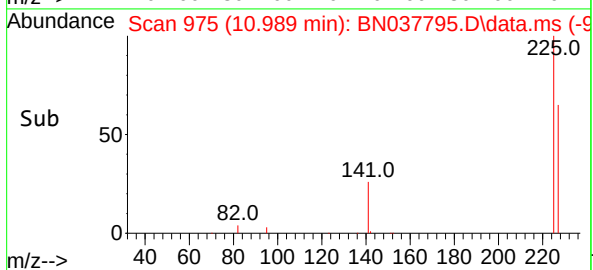
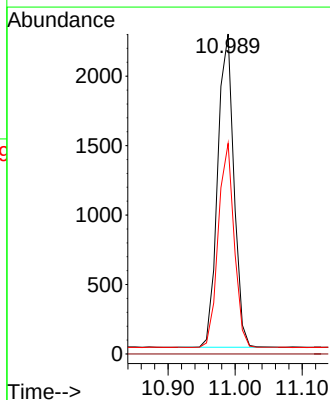
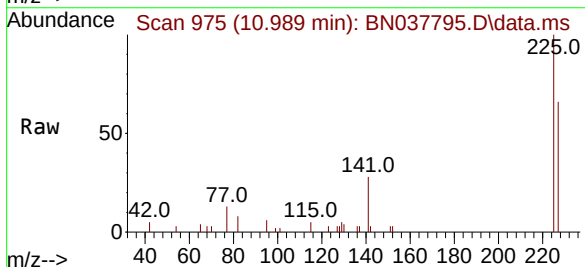
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

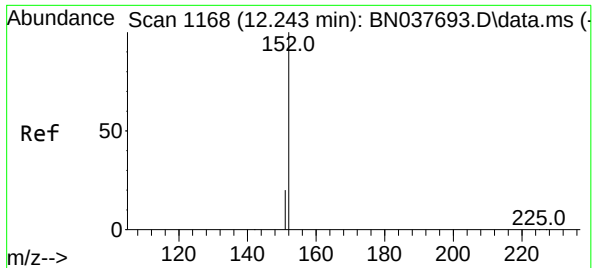
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.1	13.7
127	13.6	10.9	16.3



#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	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	50.9	76.3

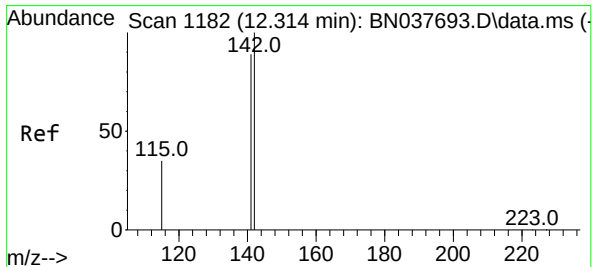
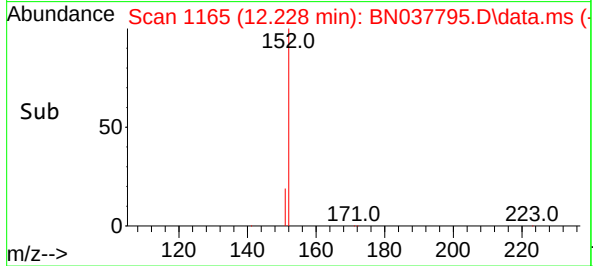
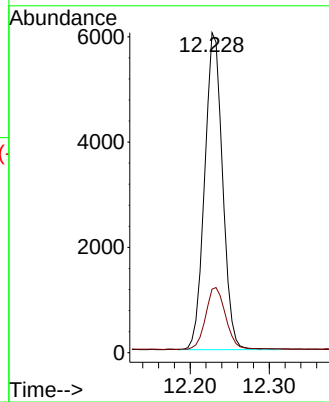
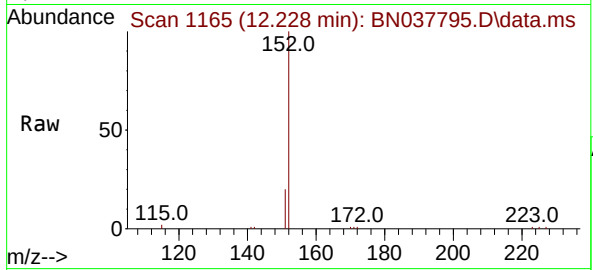




#11
2-Methylnaphthalene-d10
Concen: 0.370 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

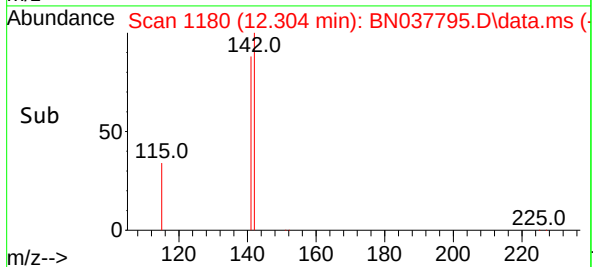
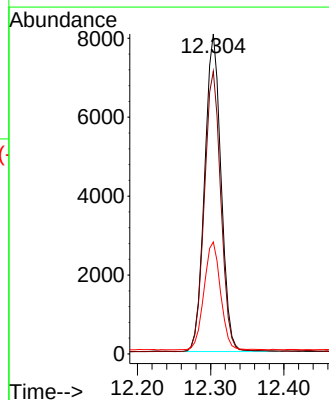
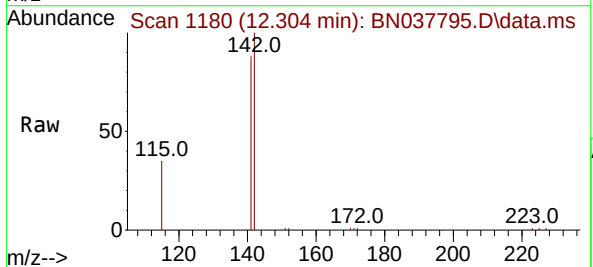
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

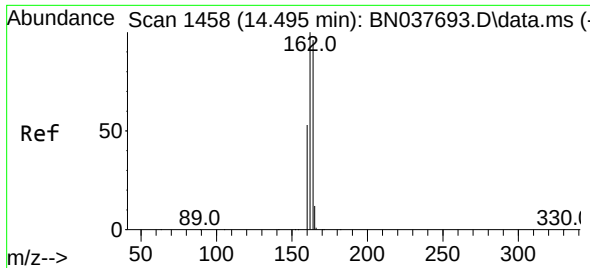
Tgt Ion:152 Resp: 9493
Ion Ratio Lower Upper
152 100
151 21.8 17.0 25.6



#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

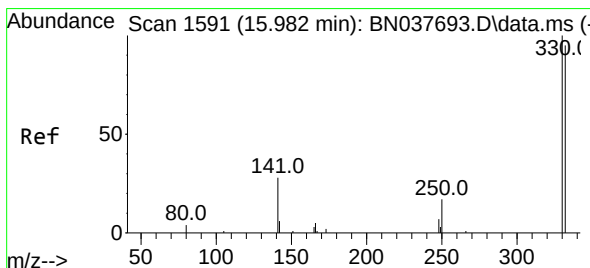
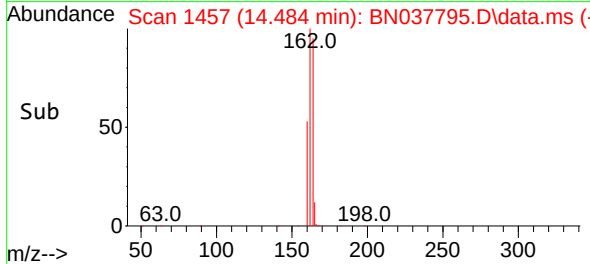
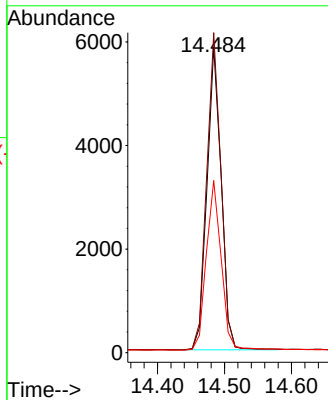
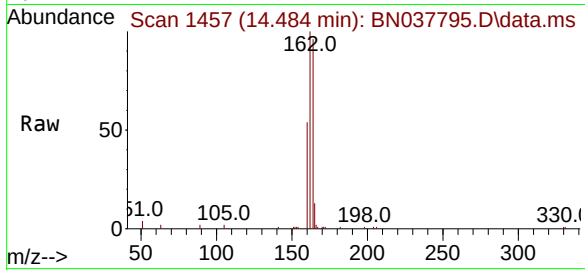




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

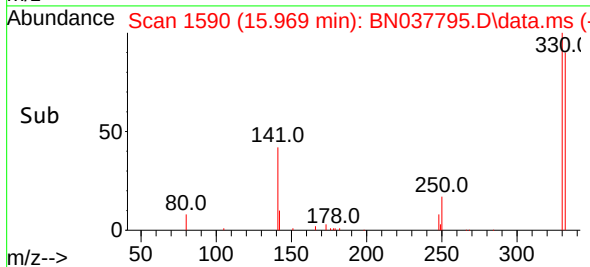
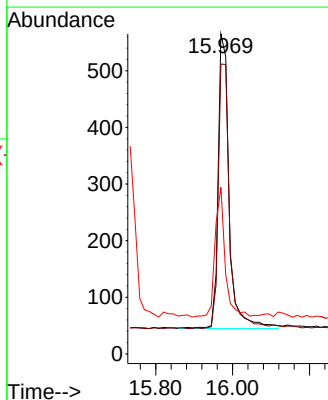
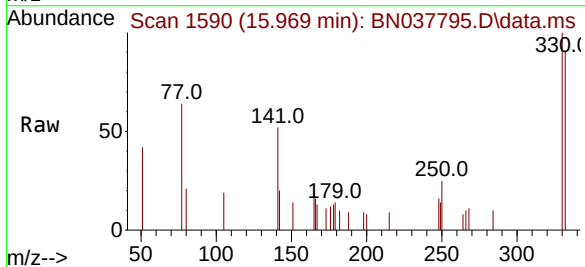
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

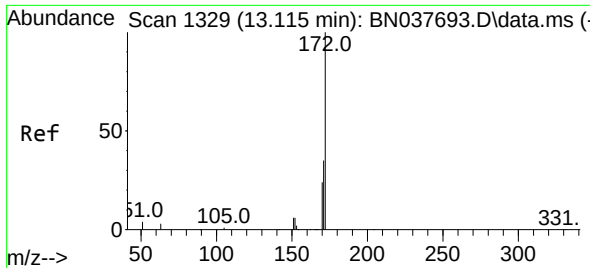
Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.7	83.1	124.7
160	56.3	44.3	66.5



#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	Ratio	Lower	Upper
330	100		
332	92.1	75.3	112.9
141	40.2	35.0	52.4

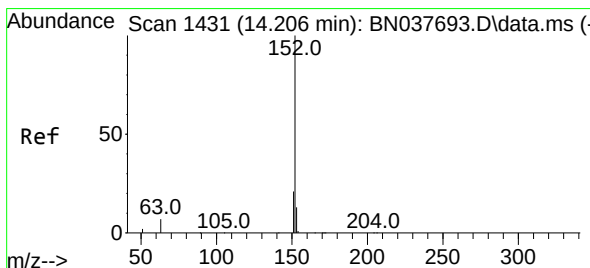
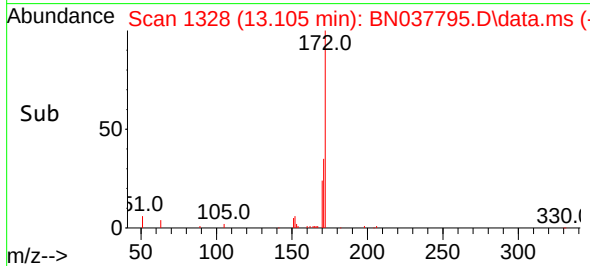
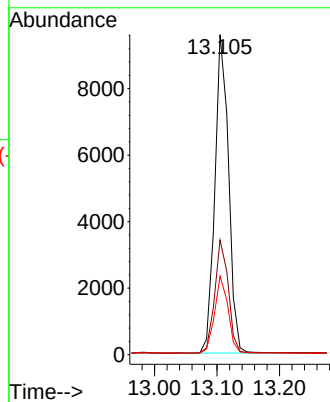
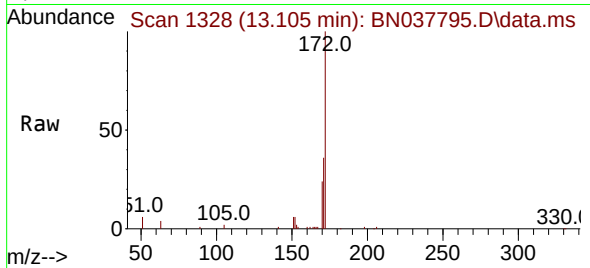




#15
2-Fluorobiphenyl
Concen: 0.406 ng
RT: 13.105 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

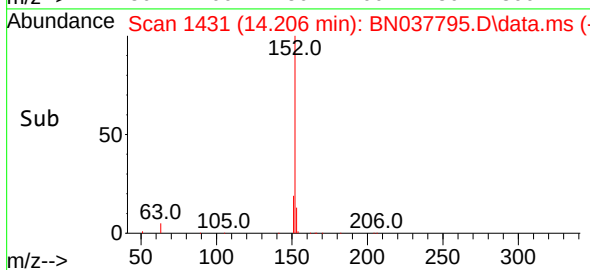
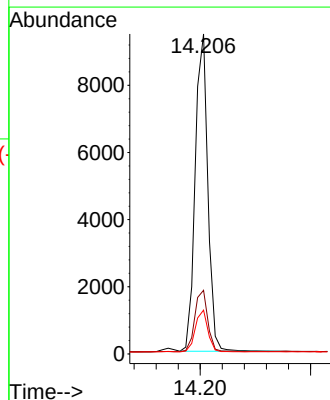
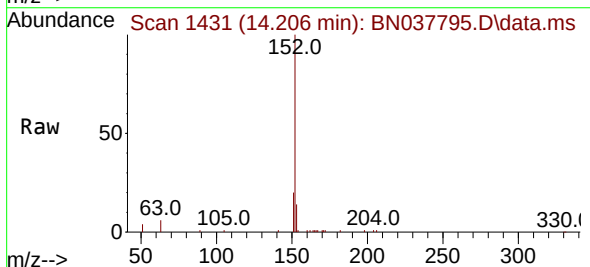
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

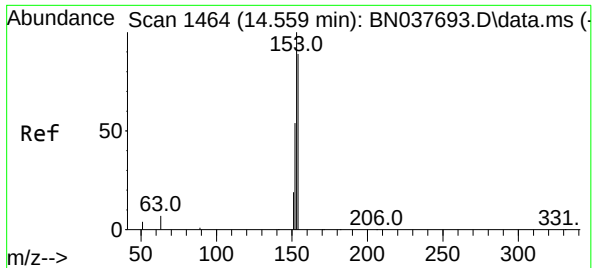
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.6	43.0
170	24.5	19.8	29.8



#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

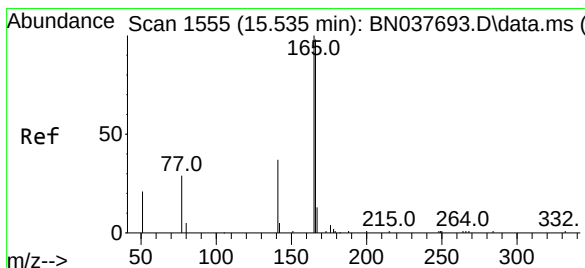
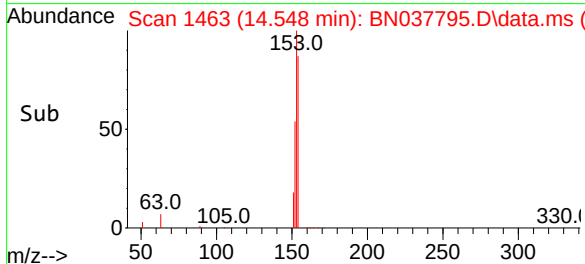
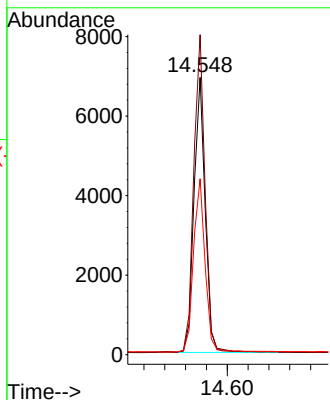
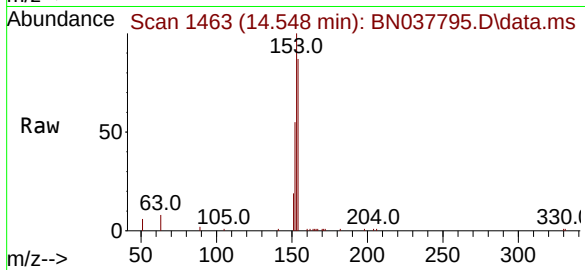




#17
Acenaphthene
Concen: 0.389 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

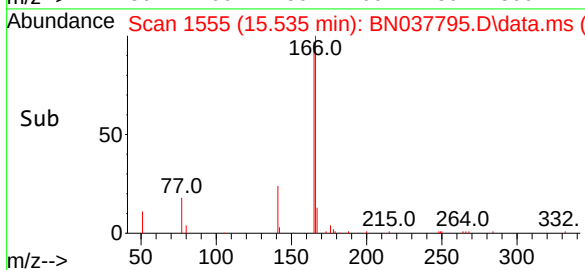
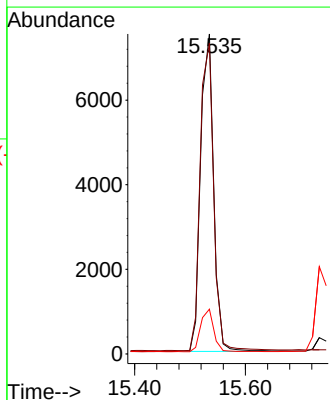
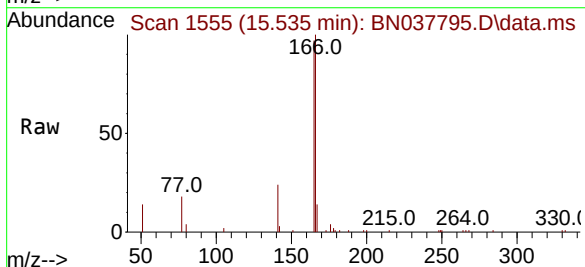
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

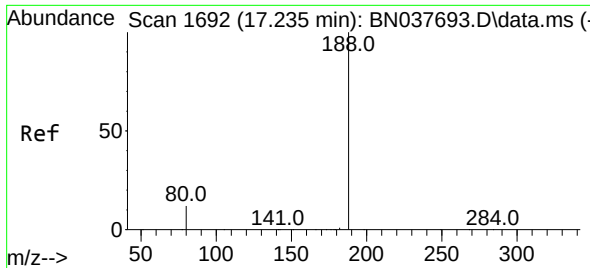
Tgt Ion:154 Resp: 10387
Ion Ratio Lower Upper
154 100
153 115.4 89.8 134.8
152 65.2 50.2 75.2



#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

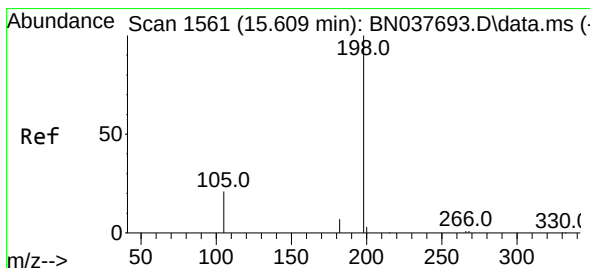
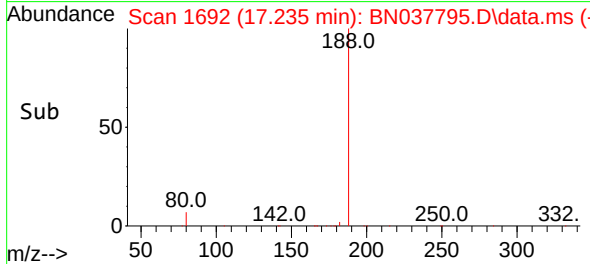
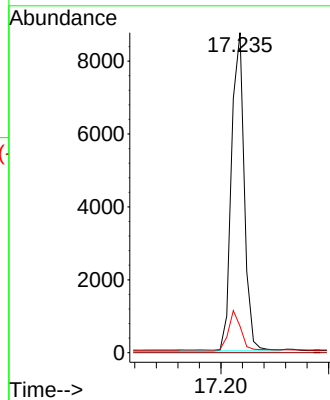
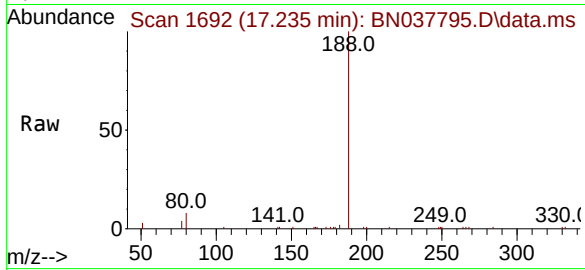




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

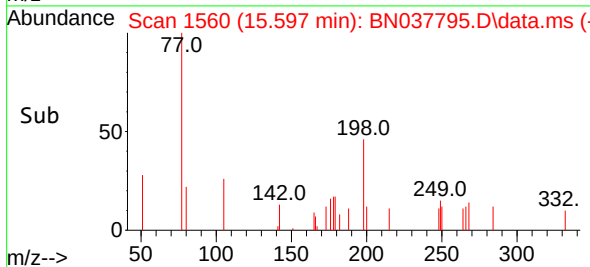
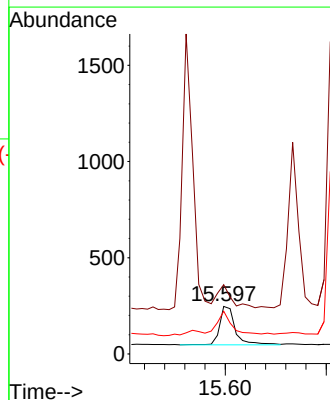
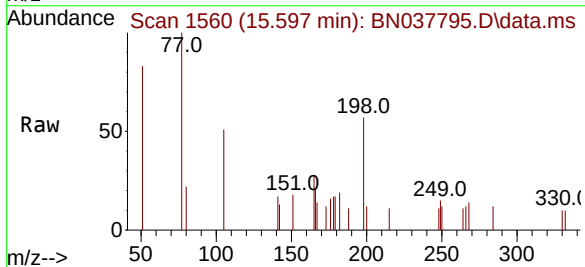
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

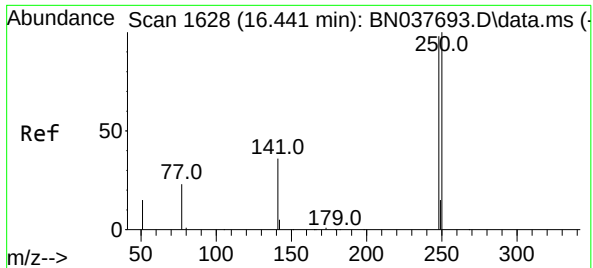
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.3	10.6	15.8#



#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	Ratio	Lower	Upper
198	100		
51	145.7	95.1	142.7#
105	89.9	53.8	80.6#

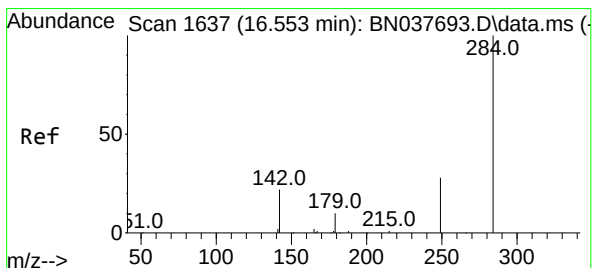
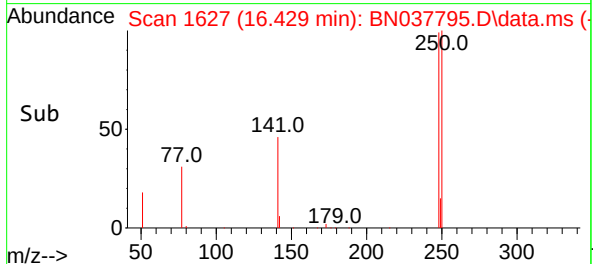
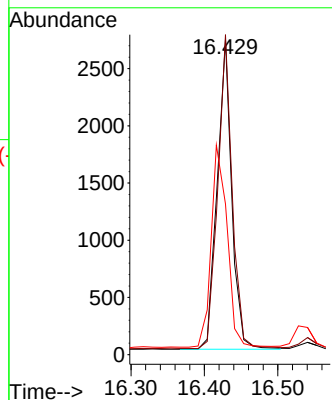
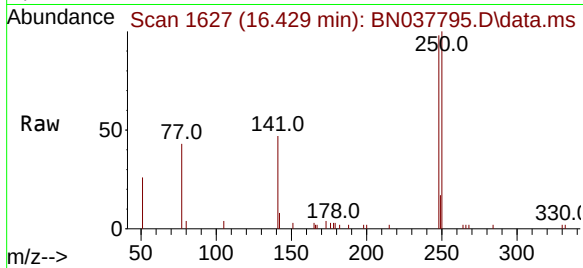




#21
4-Bromophenyl-phenylether
Concen: 0.397 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

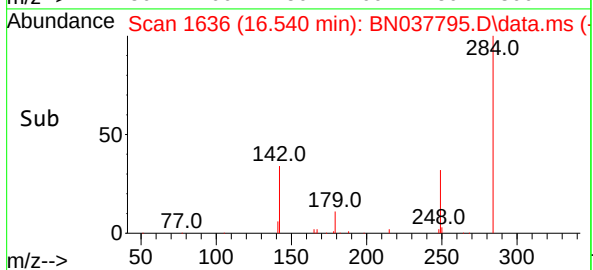
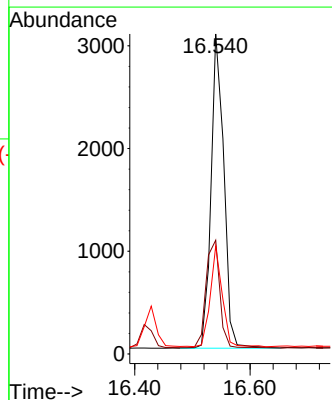
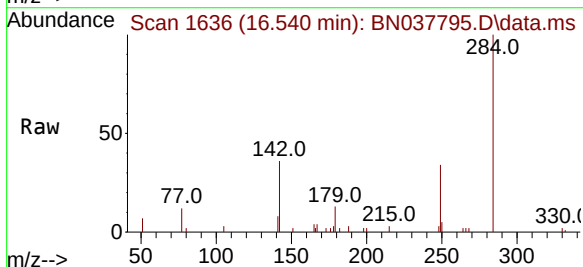
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

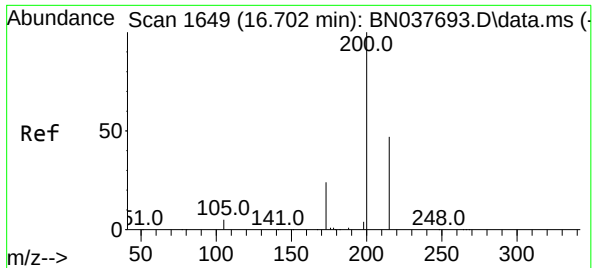
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.6	81.5	122.3
141	47.8	30.8	46.2



#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

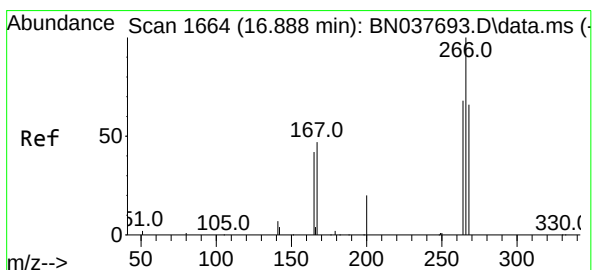
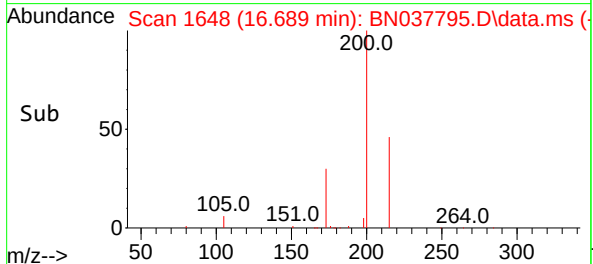
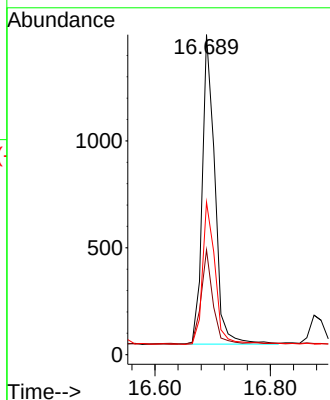
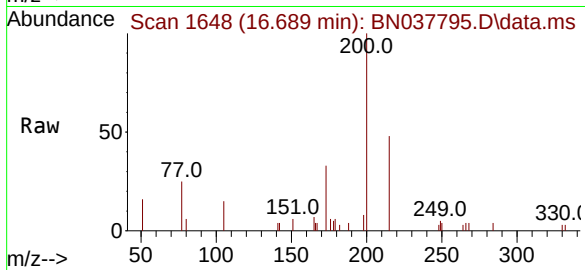




#23
Atrazine
Concen: 0.368 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

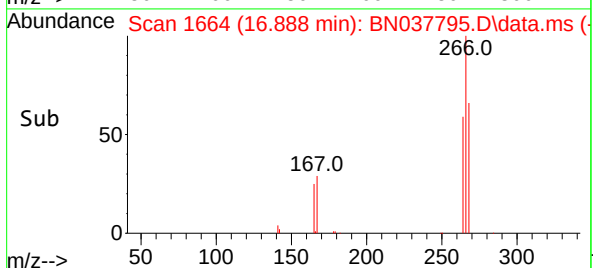
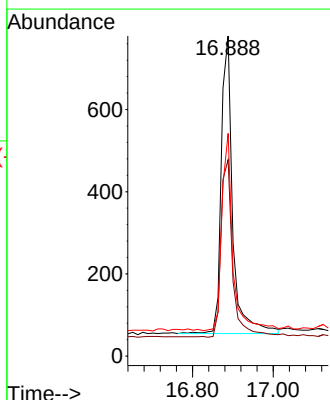
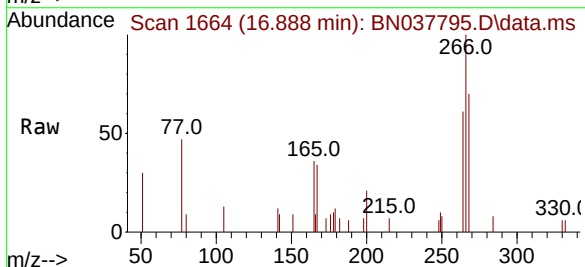
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

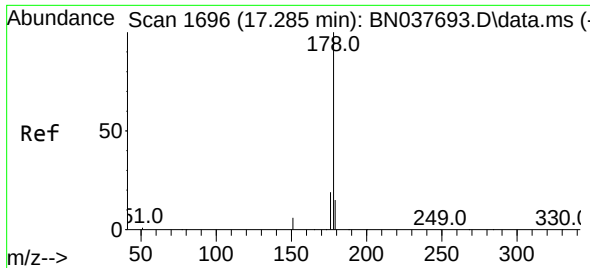
Tgt Ion:200 Resp: 2195
Ion Ratio Lower Upper
200 100
173 32.7 21.4 32.2#
215 47.6 39.2 58.8



#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

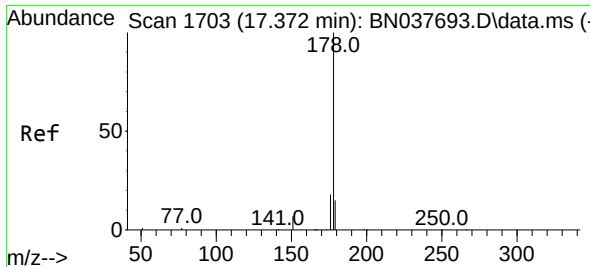
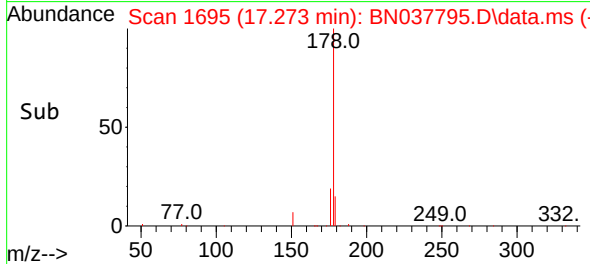
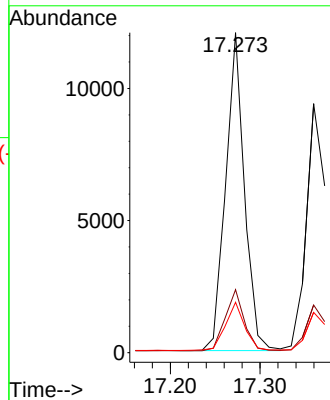
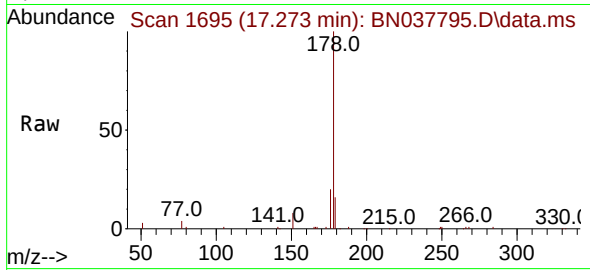




#25
Phenanthrene
Concen: 0.387 ng
RT: 17.273 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

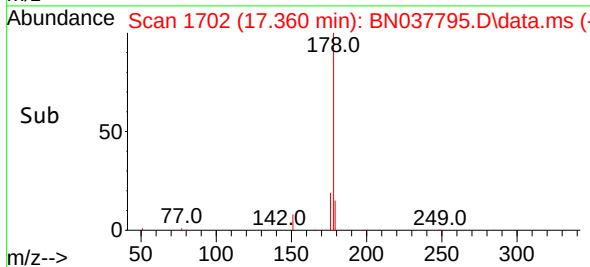
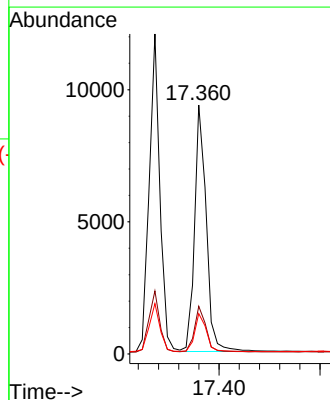
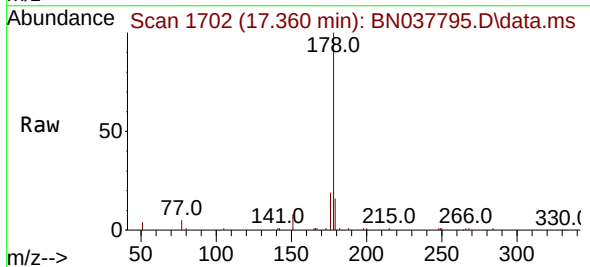
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

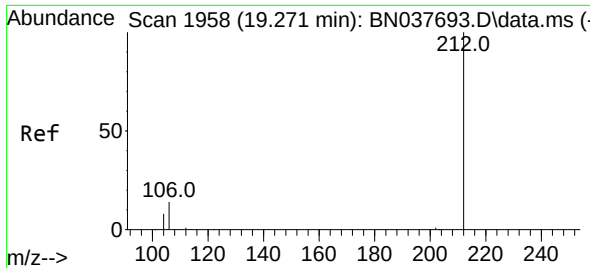
Tgt Ion:178 Resp: 17514
Ion Ratio Lower Upper
178 100
176 19.3 15.3 22.9
179 15.6 12.2 18.2



#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

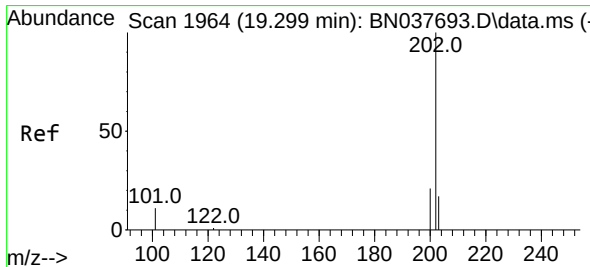
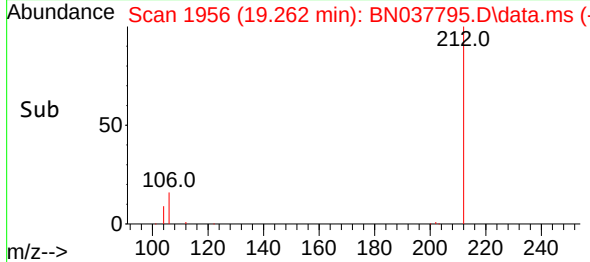
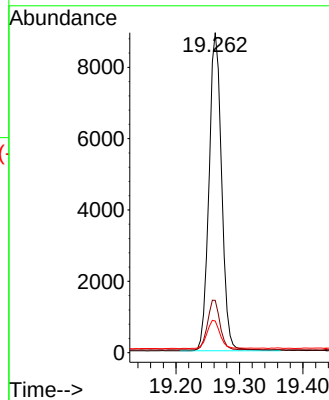
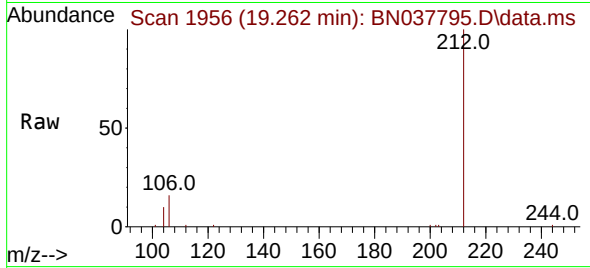




#27
Fluoranthene-d10
Concen: 0.342 ng
RT: 19.262 min Scan# 1958
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

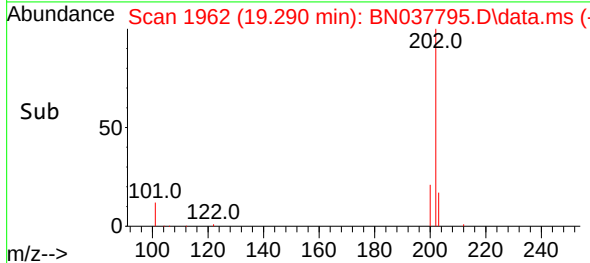
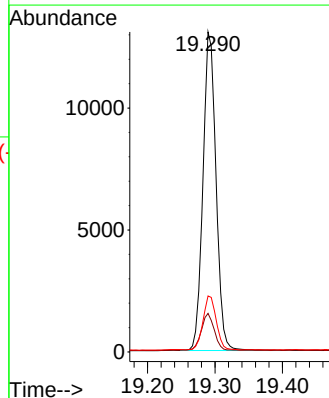
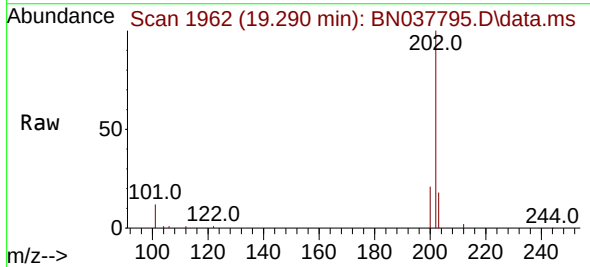
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

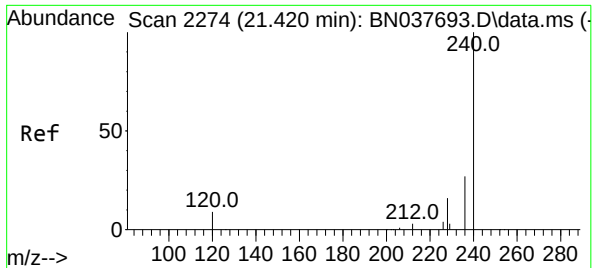
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.5	12.2	18.2
104	9.0	6.9	10.3



#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

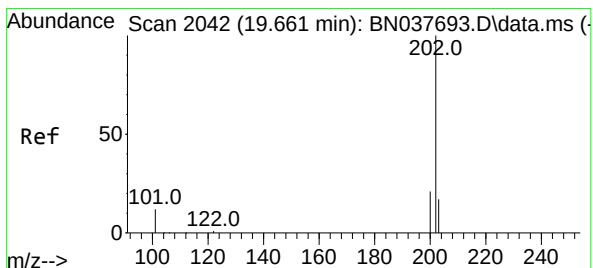
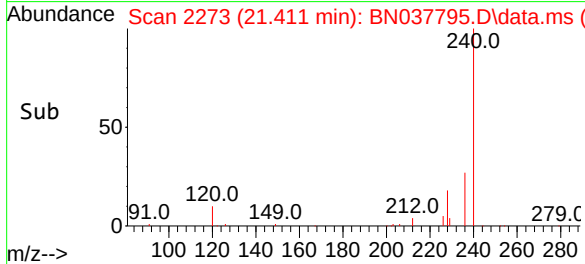
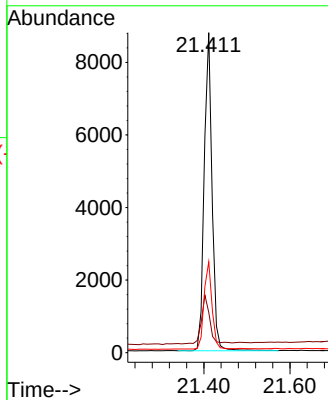
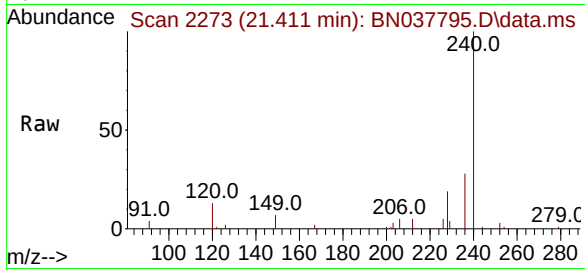




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21169
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

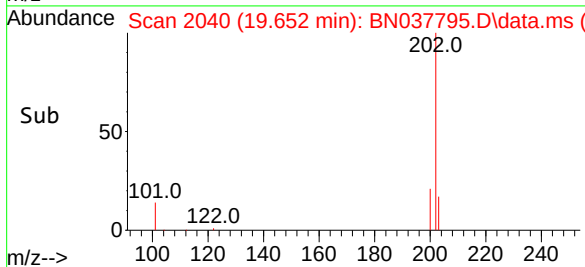
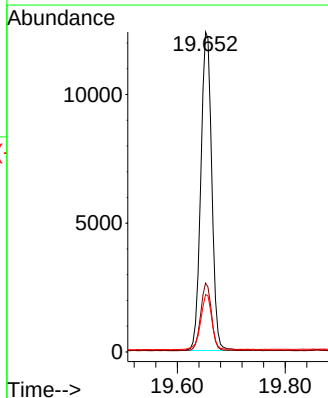
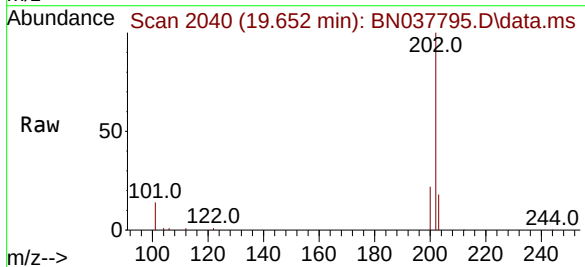
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

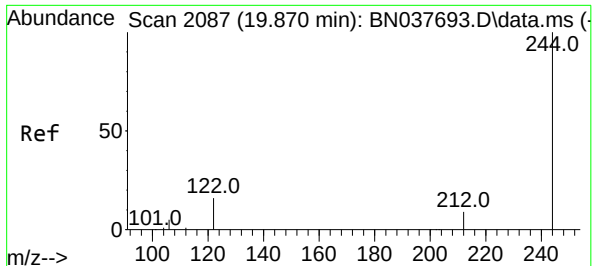
Tgt Ion:	240	Resp:	11169
Ion Ratio	Lower	Upper	
240	100		
120	12.6	9.2	13.8
236	28.4	22.6	33.8



#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:	202	Resp:	17441
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

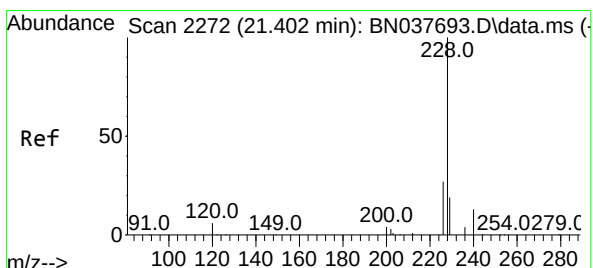
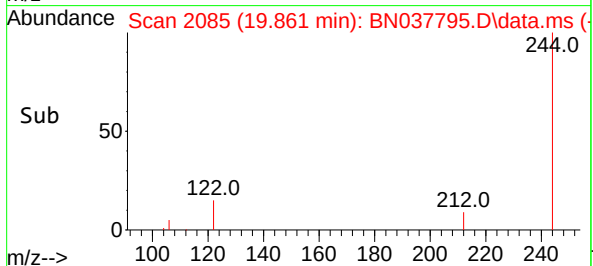
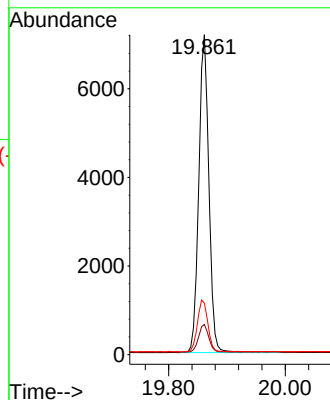
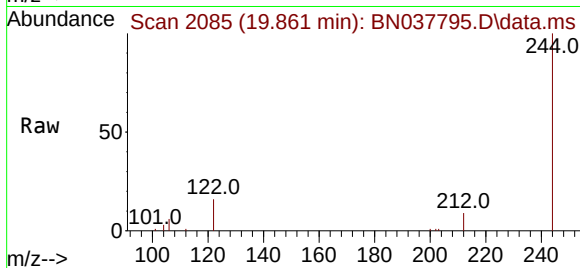
Tgt Ion:244 Resp: 8607

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

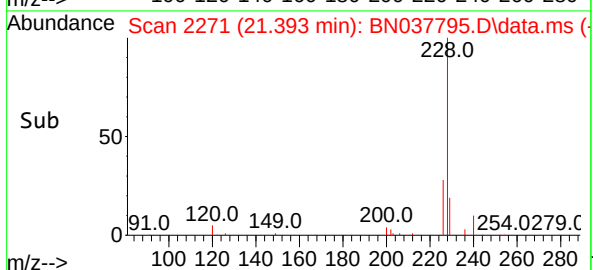
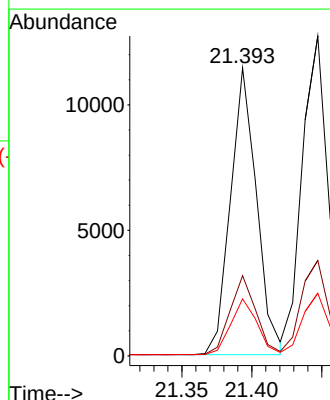
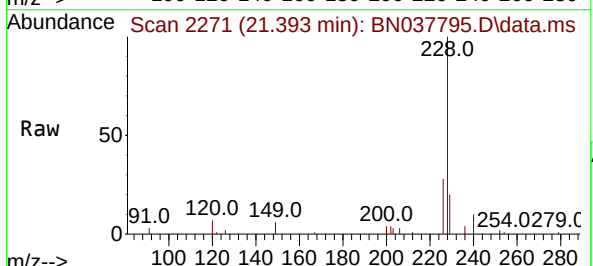
Tgt Ion:228 Resp: 14838

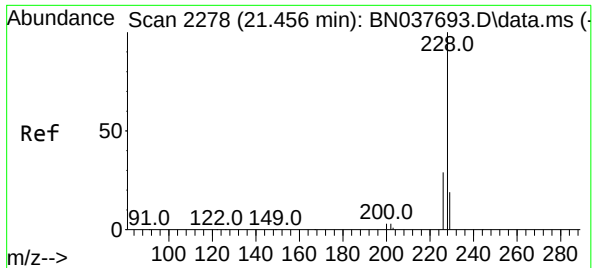
Ion Ratio Lower Upper

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

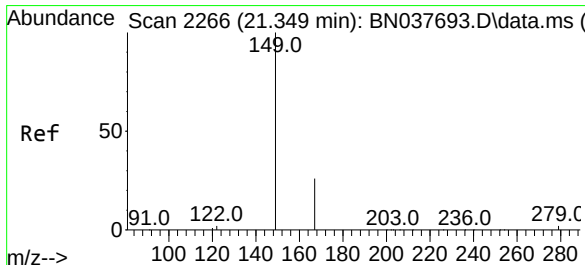
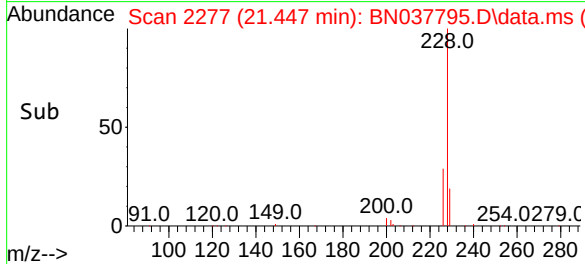
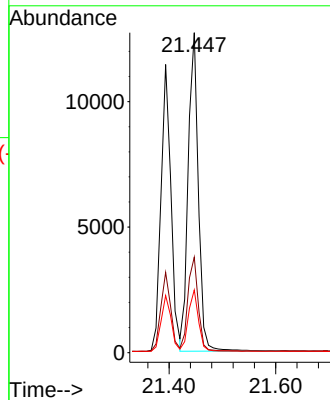
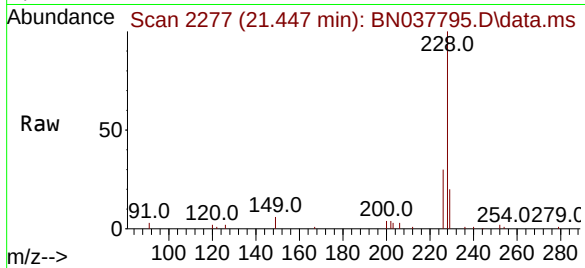
Tgt Ion:228 Resp: 16770

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

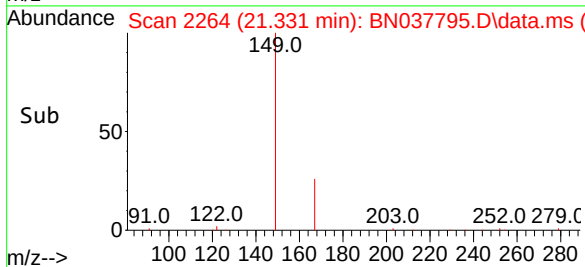
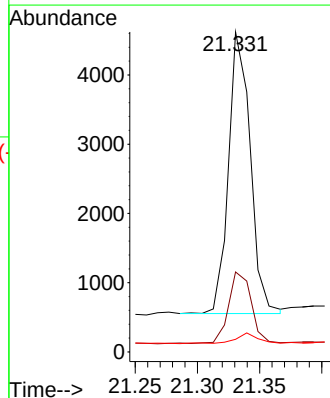
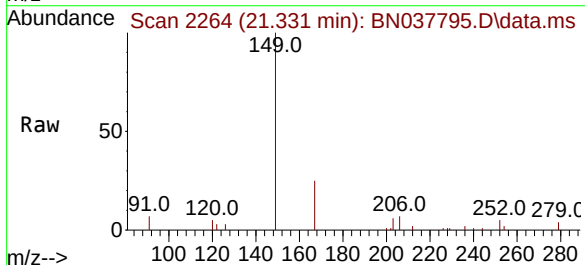
Tgt Ion:149 Resp: 4946

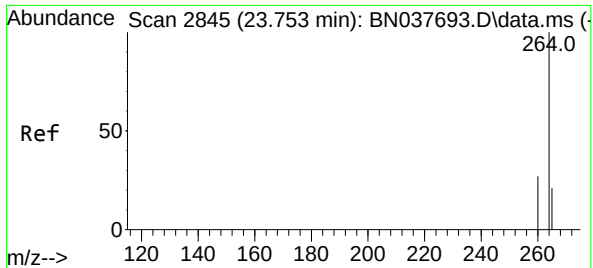
Ion Ratio Lower Upper

149 100

167 26.7 20.8 31.2

279 4.1 3.3 4.9

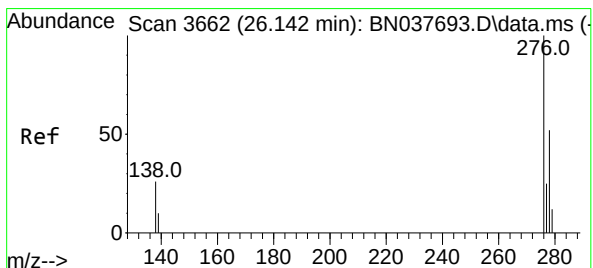
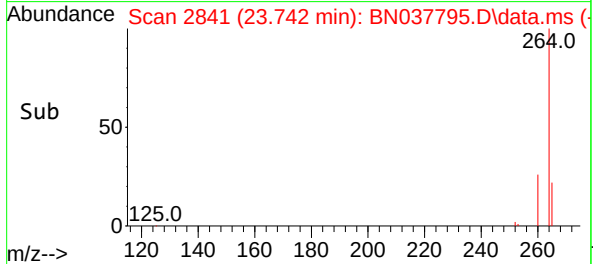
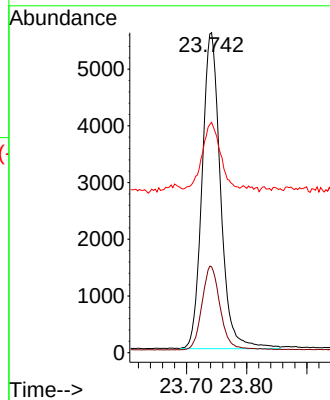
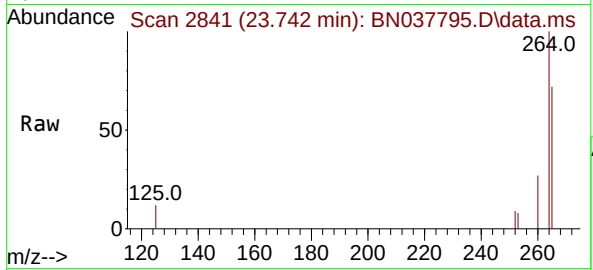




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.742 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

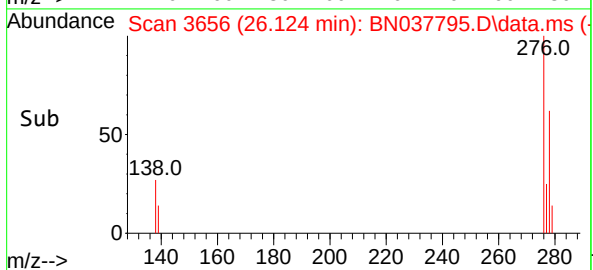
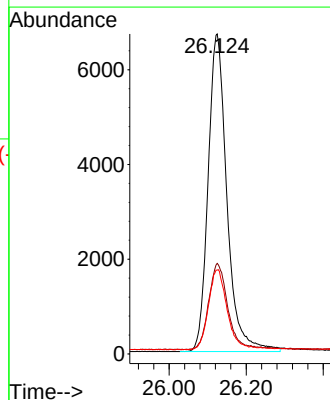
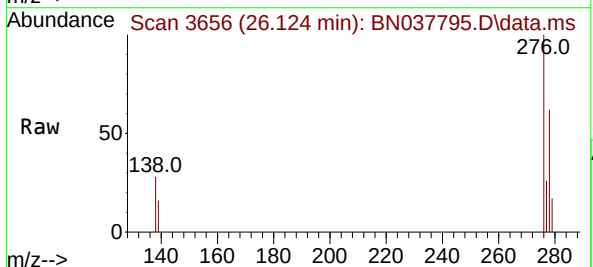
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

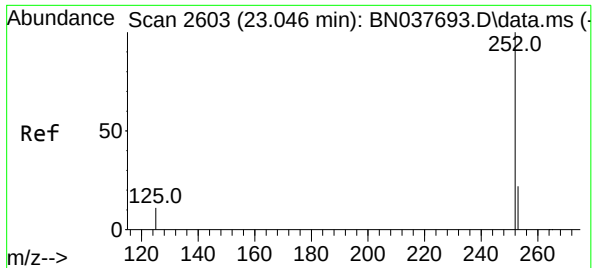
Tgt Ion:264 Resp: 11840
Ion Ratio Lower Upper
264 100
260 26.8 21.8 32.8
265 72.0 39.4 59.2#



#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:276 Resp: 22723
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

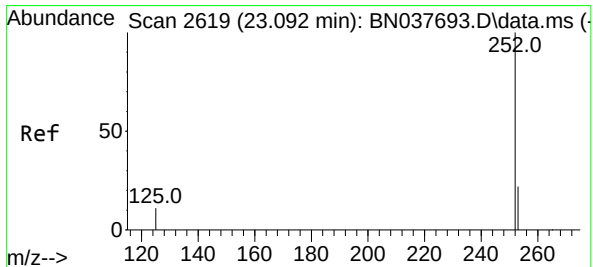
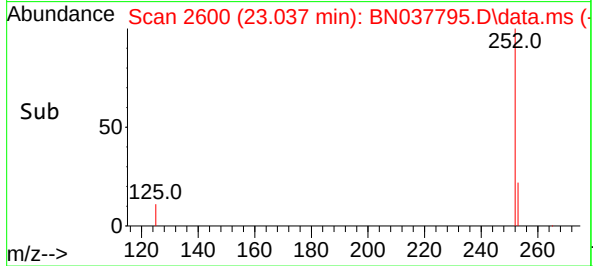
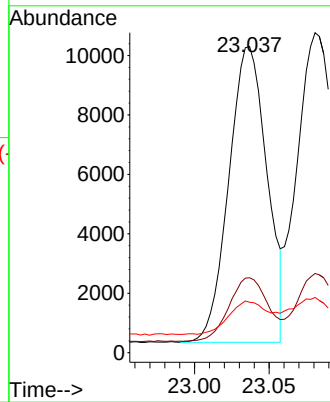
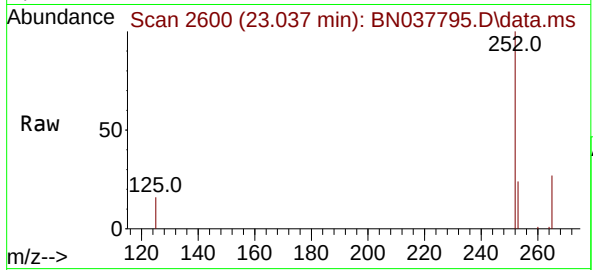
Tgt Ion:252 Resp: 17698

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

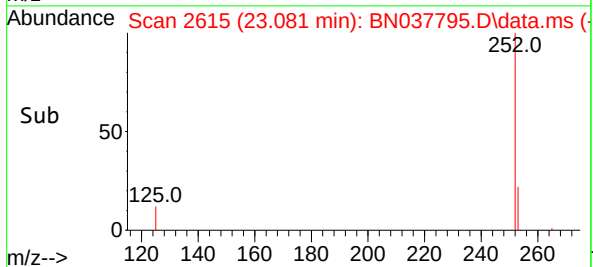
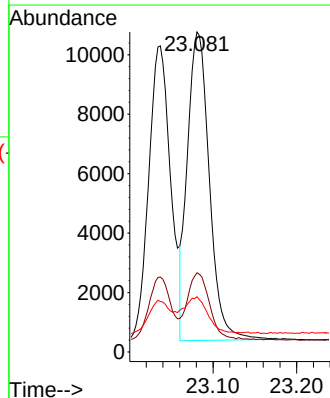
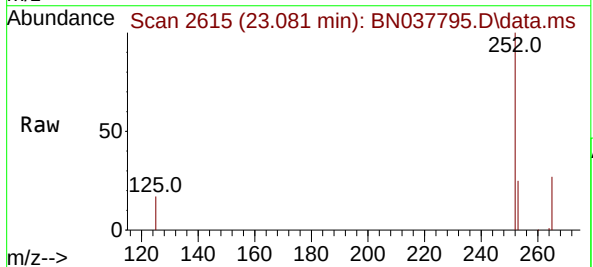
Tgt Ion:252 Resp: 18956

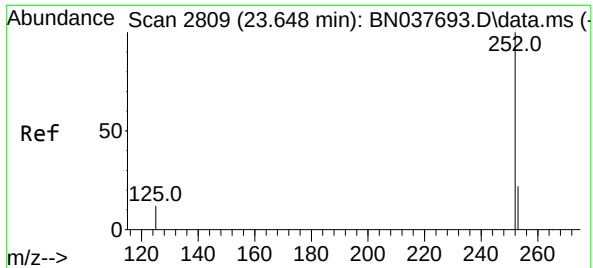
Ion Ratio Lower Upper

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

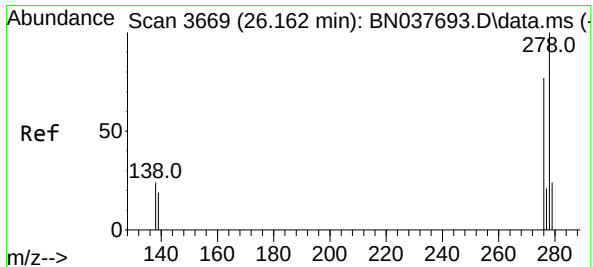
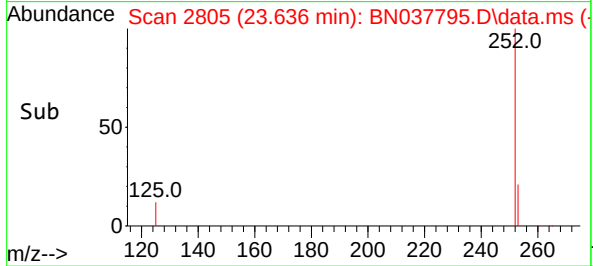
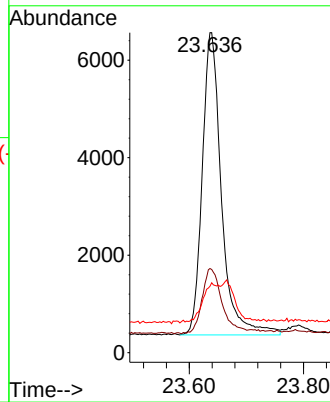
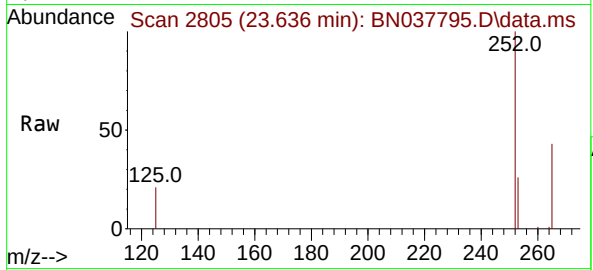
Instrument :

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

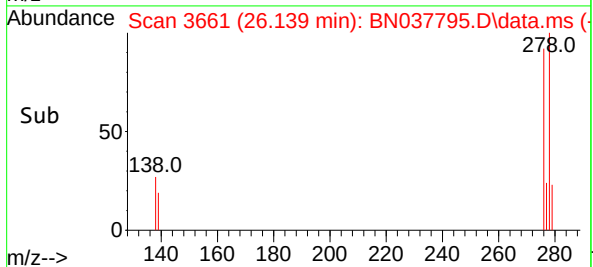
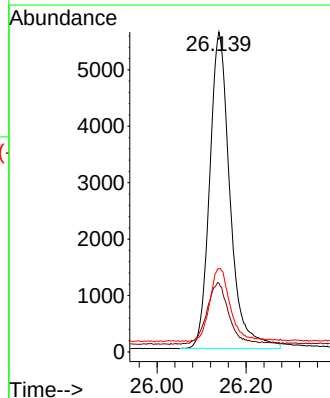
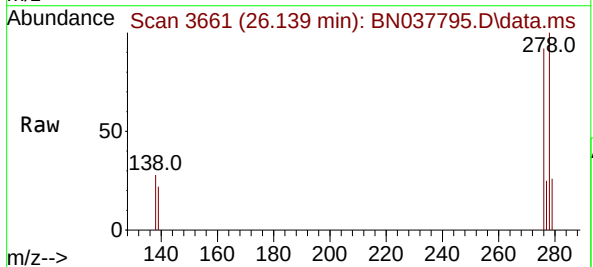
RT: 26.139 min Scan# 3661

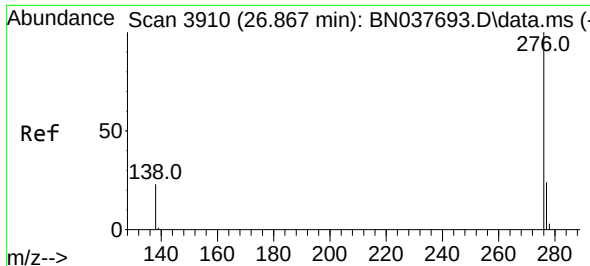
Delta R.T. -0.023 min

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

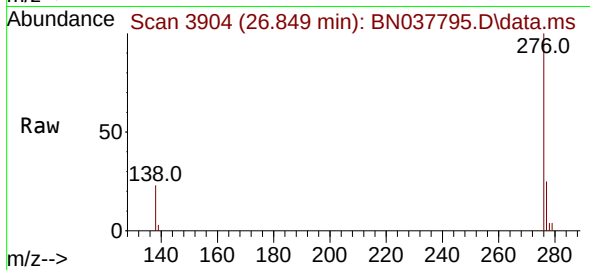
Acq: 19 Sep 2025 02:47

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



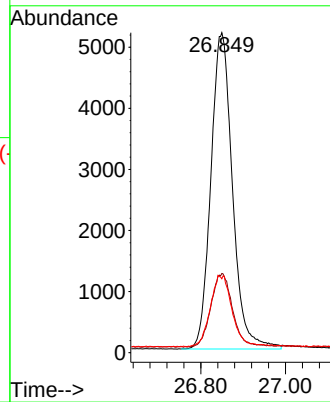
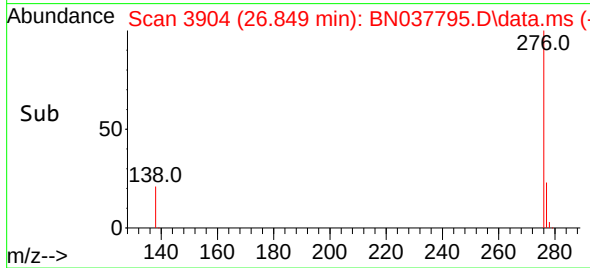
Tgt Ion:276 Resp: 18357

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: Alliance Contract: AECO15
 Lab Code: ACE SDG No.: Q3127
 Instrument ID: BNA_N Calibration Date/Time: 09/19/2025 13:03
 Lab File ID: BN037811.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	0.497		-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

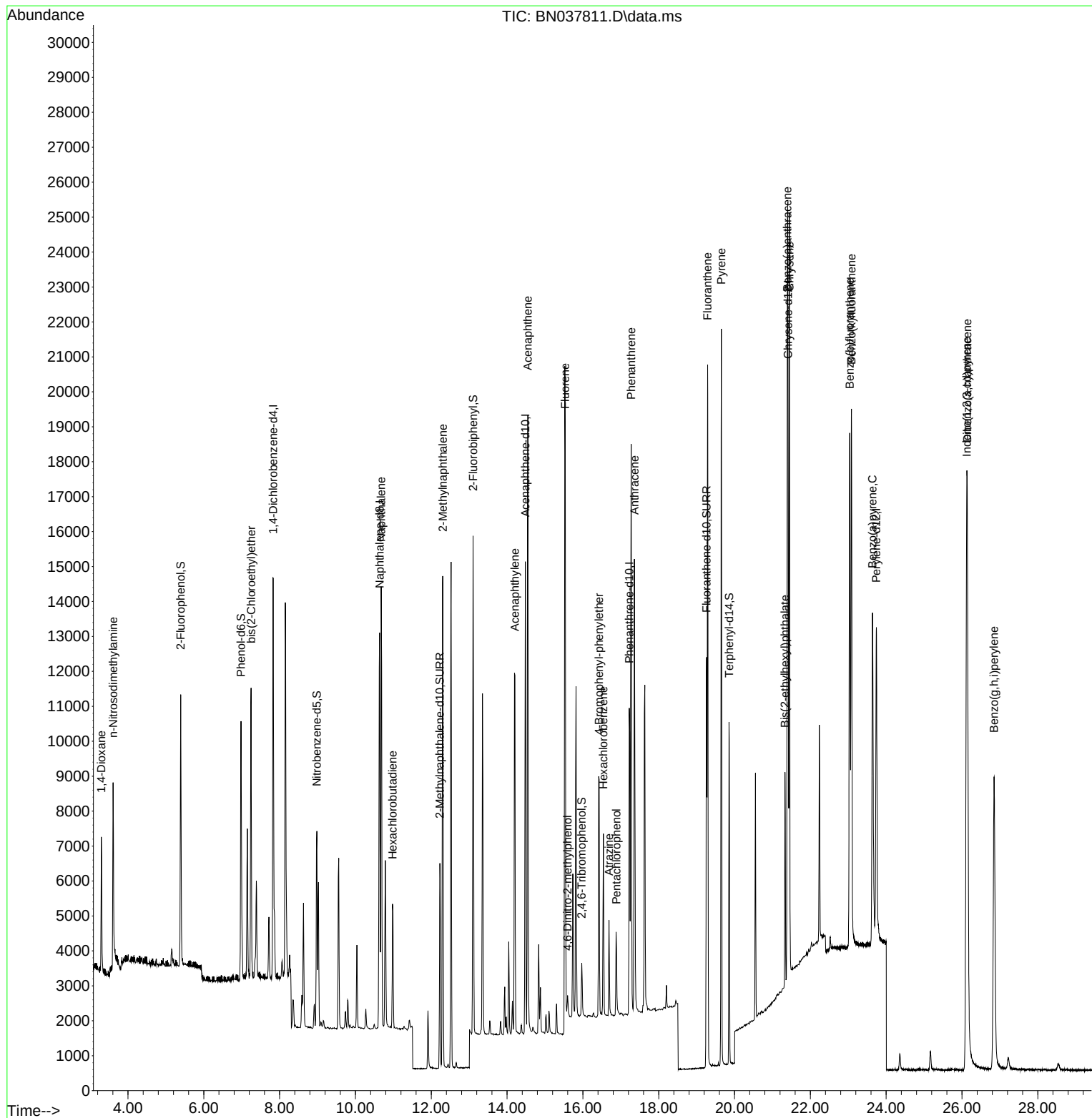
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	5811	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	15706	0.400	ng	#-0.01
13) Acenaphthene-d10	14.484	164	7363	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	13521	0.400	ng	-0.01
29) Chrysene-d12	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						
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

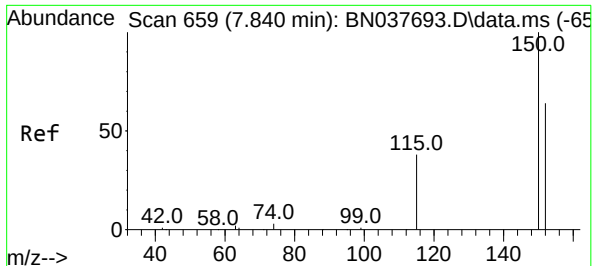
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

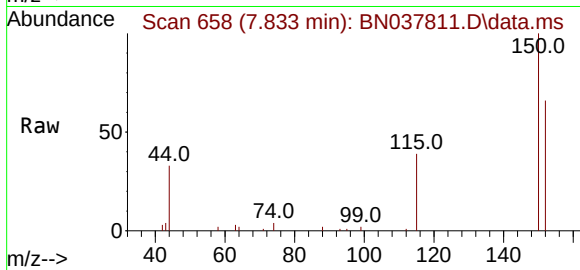
Quant Time: Sep 19 13:27:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



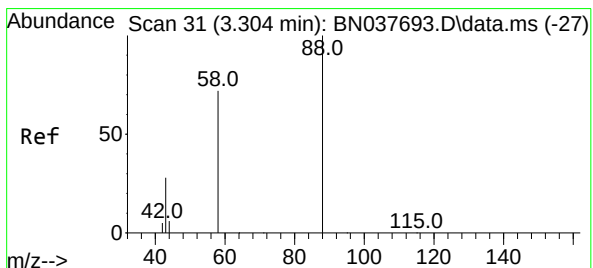
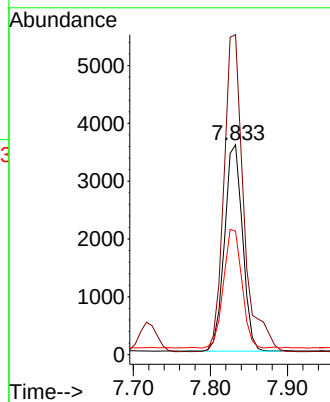
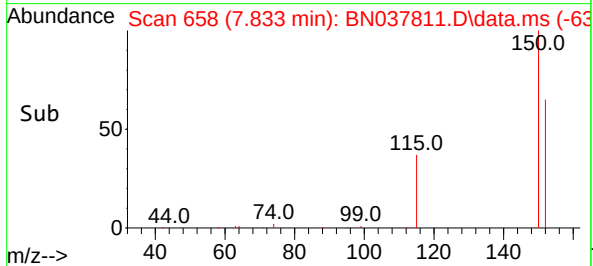


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

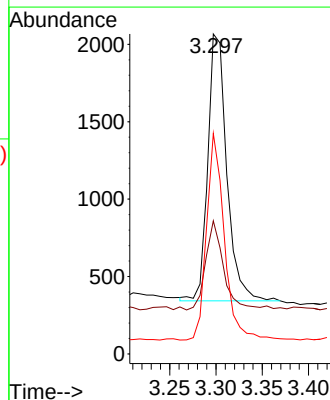
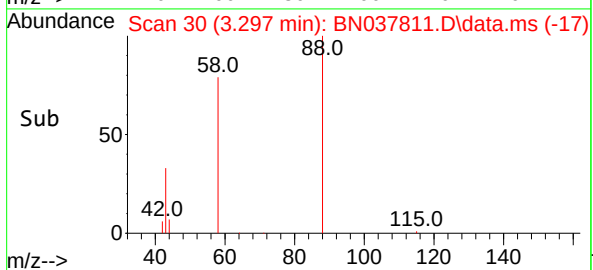
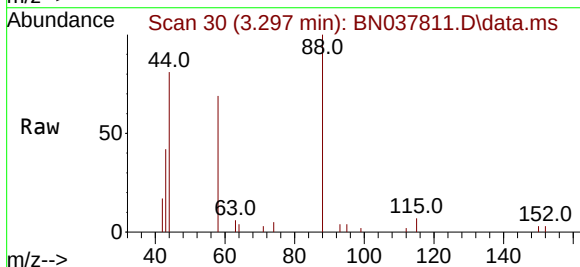


Tgt Ion:152 Resp: 5811
Ion Ratio Lower Upper
152 100
150 152.5 124.5 186.7
115 58.8 49.2 73.8

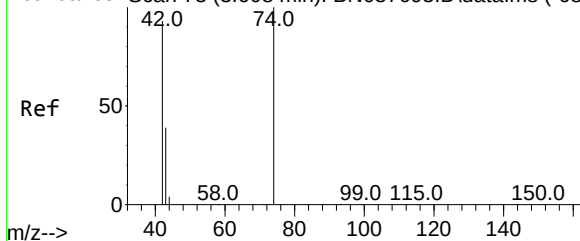


#2
1,4-Dioxane
Concen: 0.407 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

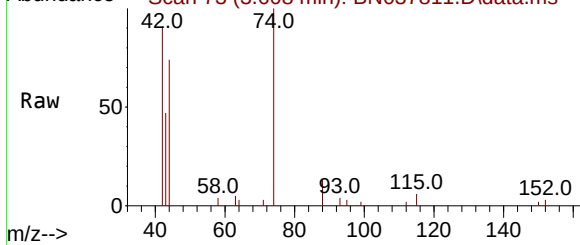
Tgt Ion: 88 Resp: 2462
Ion Ratio Lower Upper
88 100
43 32.0 26.8 40.2
58 72.4 61.9 92.9



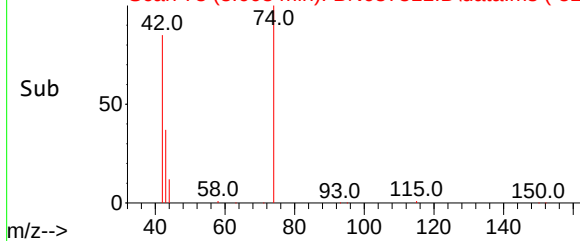
Abundance Scan 73 (3.608 min): BN037693.D\data.ms (-68)



Abundance Scan 73 (3.608 min): BN037811.D\data.ms



Abundance Scan 73 (3.608 min): BN037811.D\data.ms (-52)



#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

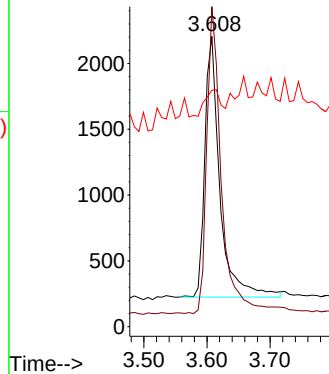
Ion Ratio Lower Upper

42 100

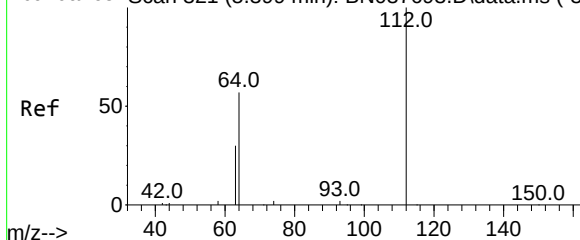
74 115.6 86.0 129.0

44 10.4 8.4 12.6

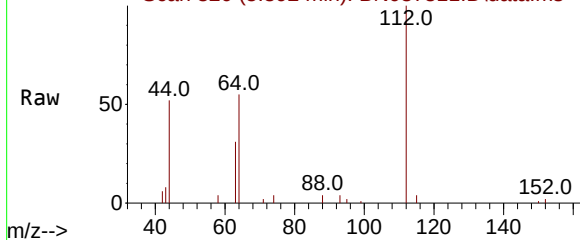
Abundance



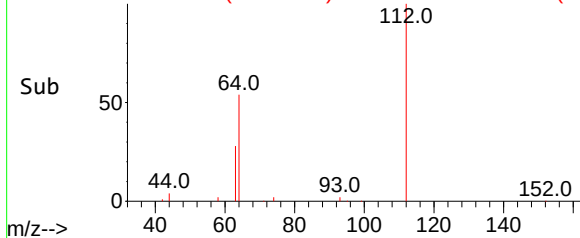
Abundance Scan 321 (5.399 min): BN037693.D\data.ms (-30)



Abundance Scan 320 (5.392 min): BN037811.D\data.ms



Abundance Scan 320 (5.392 min): BN037811.D\data.ms (-29)



#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

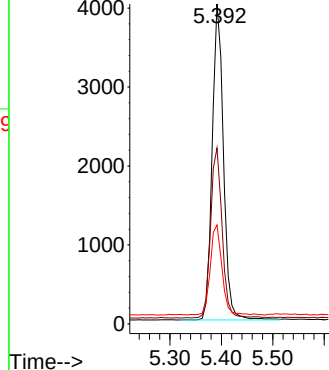
Ion Ratio Lower Upper

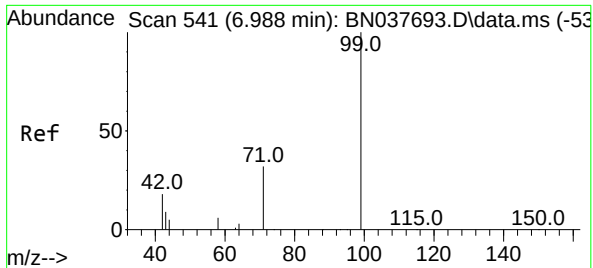
112 100

64 54.8 44.9 67.3

63 29.3 24.7 37.1

Abundance

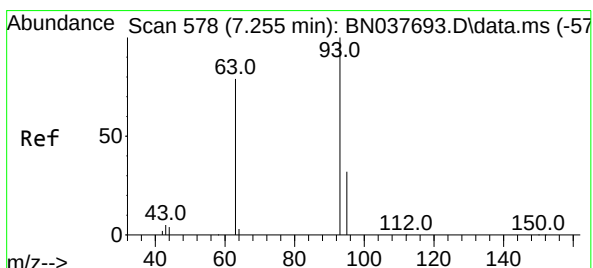
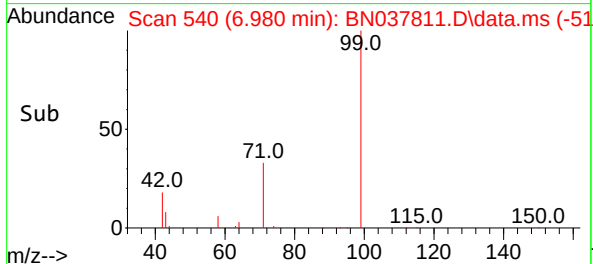
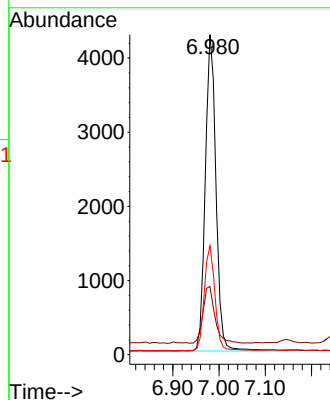
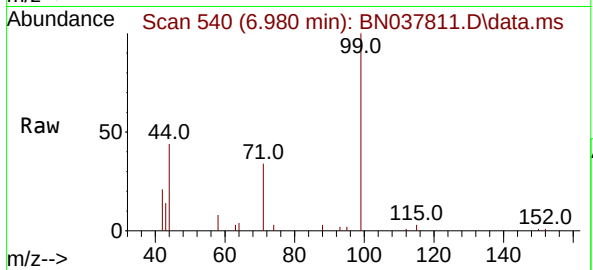




#5
Phenol-d6
Concen: 0.395 ng
RT: 6.980 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

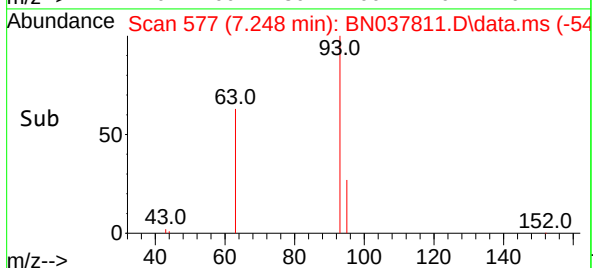
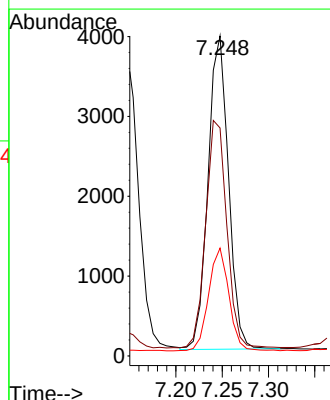
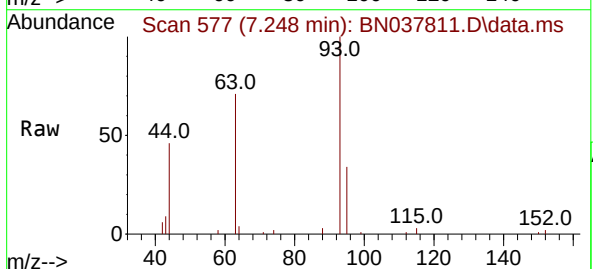
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

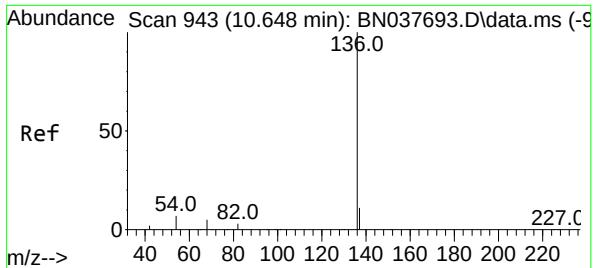
Tgt Ion: 99 Resp: 6833
Ion Ratio Lower Upper
99 100
42 20.0 16.6 24.8
71 33.2 26.7 40.1



#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

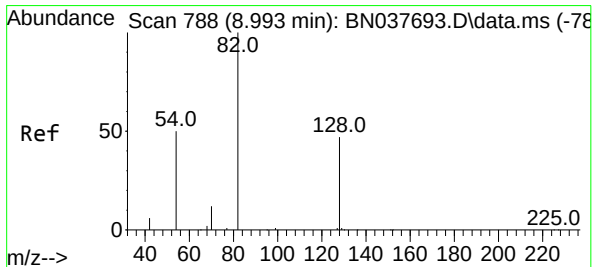
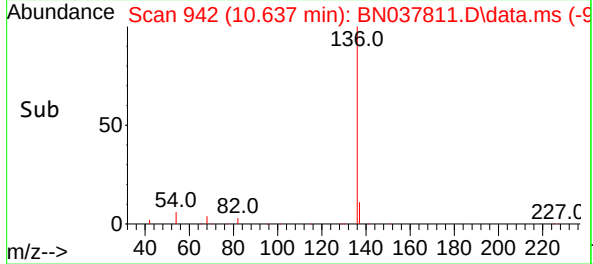
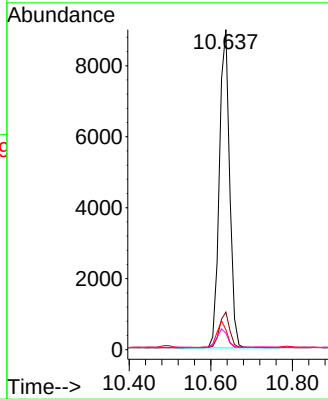
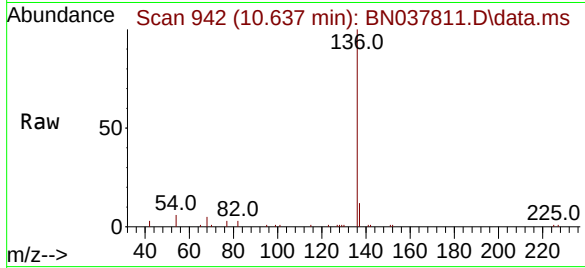




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

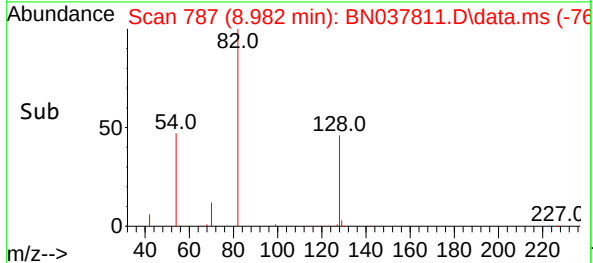
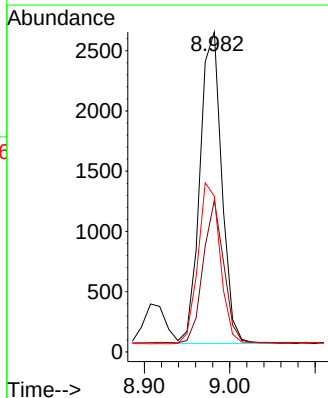
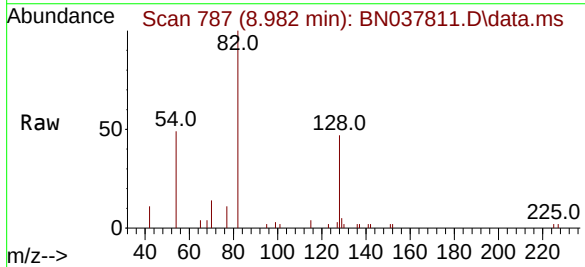
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

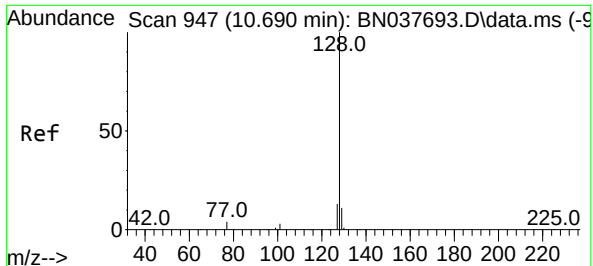
Tgt Ion:	136	Resp:	15706
Ion Ratio	Lower	Upper	
136	100		
137	11.7	9.1	13.7
54	6.3	6.3	9.5#
68	5.1	5.0	7.4



#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

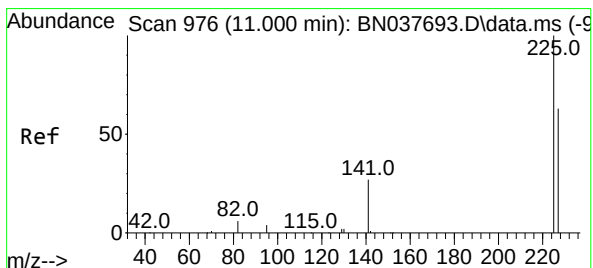
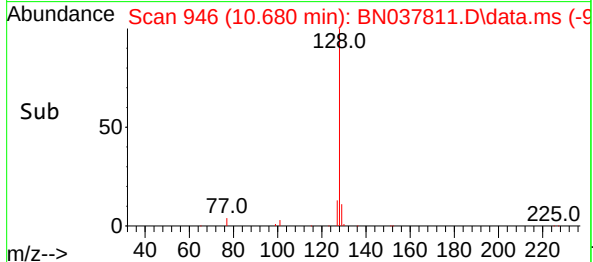
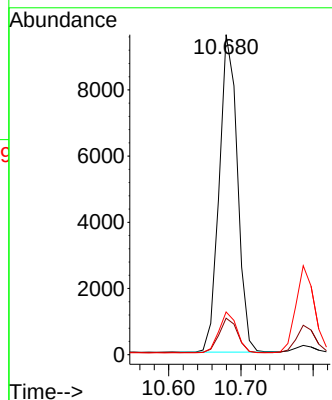
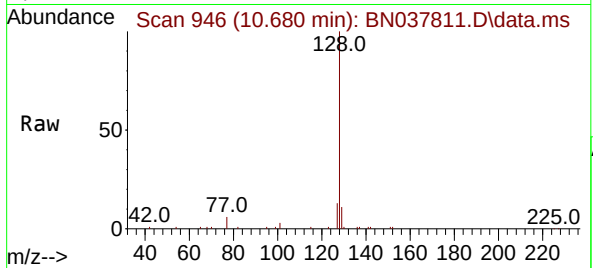




#9
Naphthalene
Concen: 0.391 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

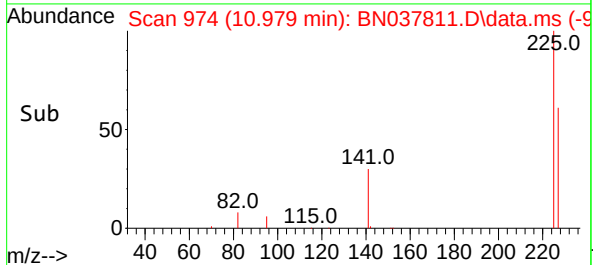
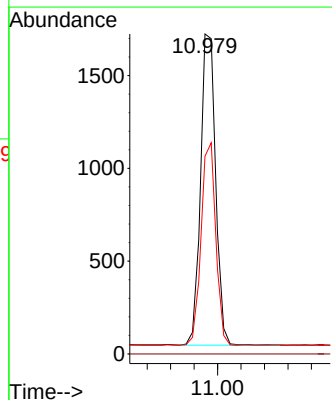
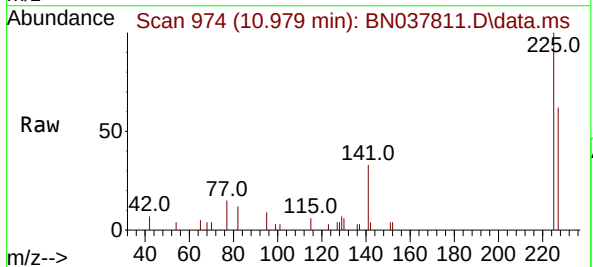
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

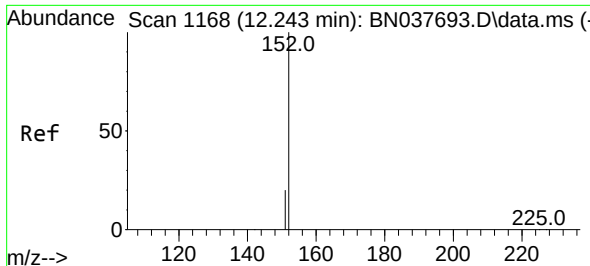
Tgt Ion:128 Resp: 16766
Ion Ratio Lower Upper
128 100
129 11.4 9.1 13.7
127 13.4 10.9 16.3



#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

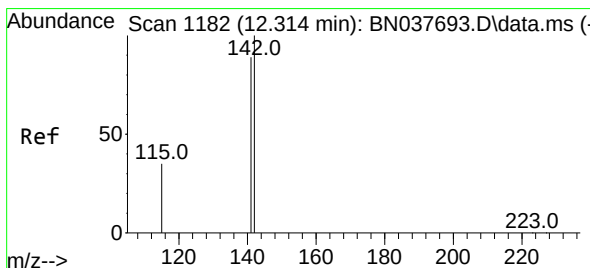
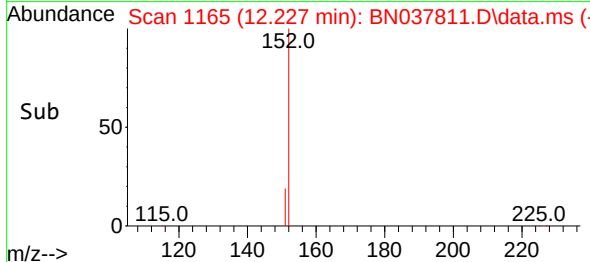
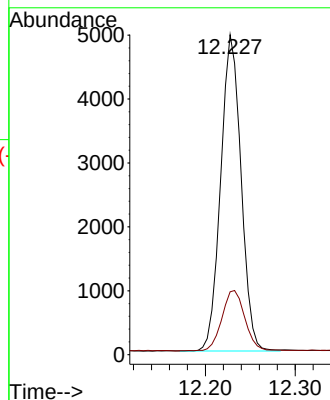
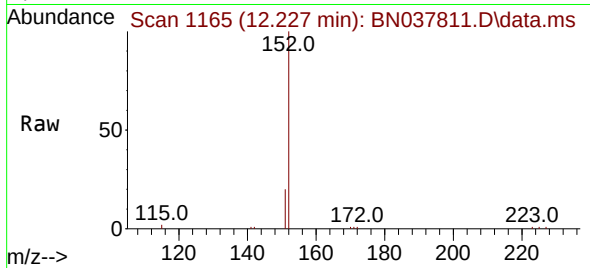




#11
2-Methylnaphthalene-d10
Concen: 0.375 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

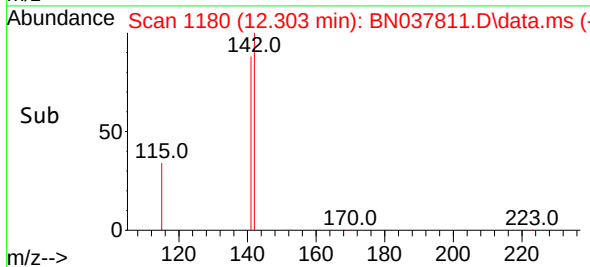
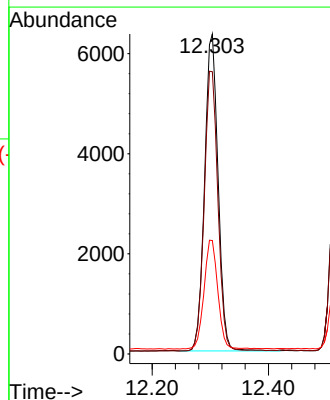
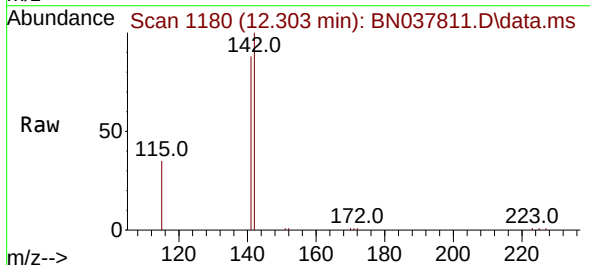
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

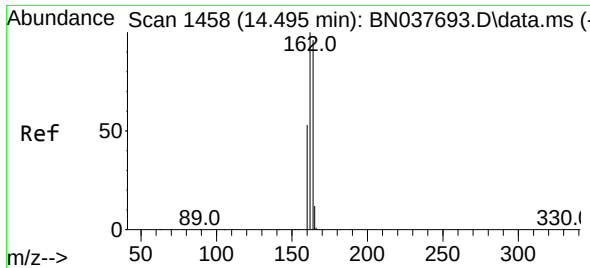
Tgt Ion:152 Resp: 7805
Ion Ratio Lower Upper
152 100
151 21.7 17.0 25.6



#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

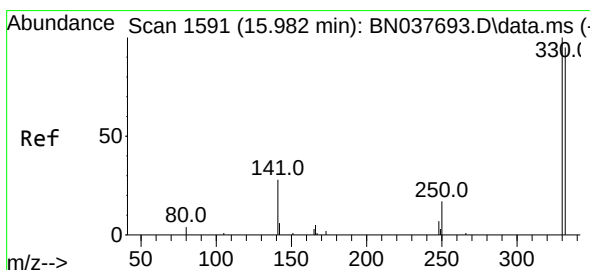
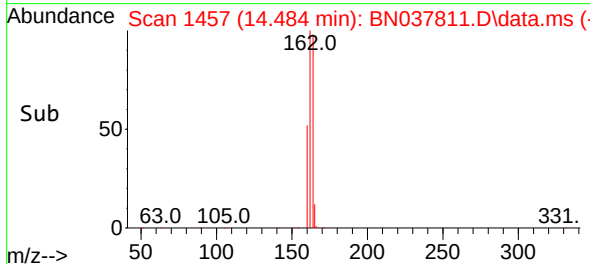
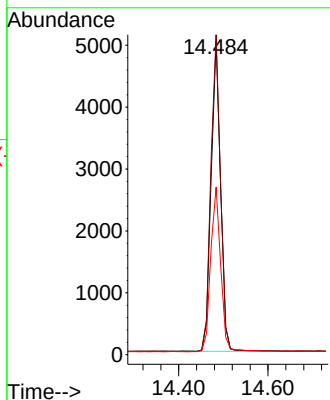
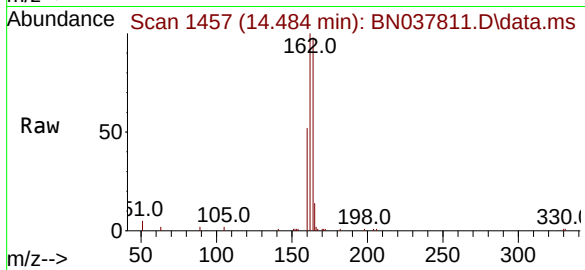




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

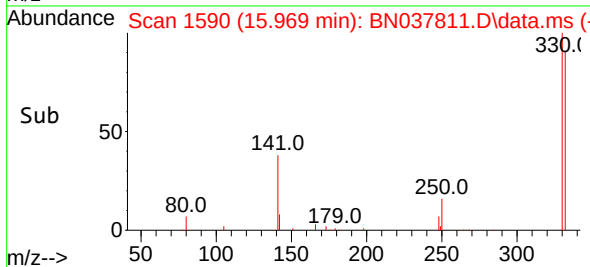
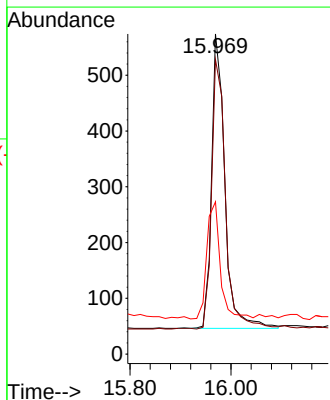
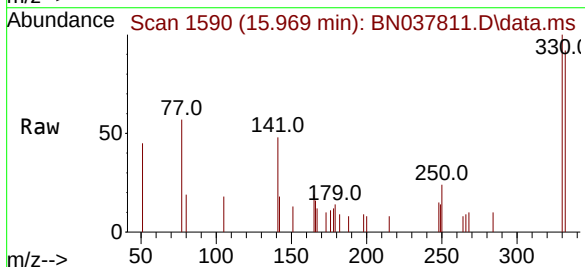
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

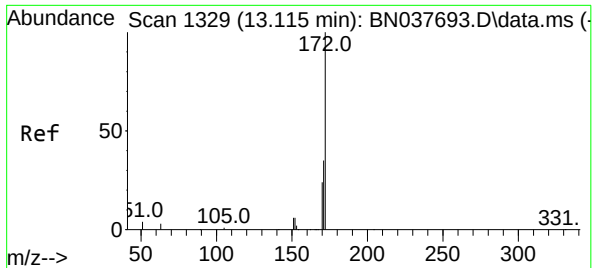
Tgt Ion	164	Resp	7363
Ion	Ratio	Lower	Upper
164	100		
162	101.9	83.1	124.7
160	53.4	44.3	66.5



#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	330	Resp	963
Ion	Ratio	Lower	Upper
330	100		
332	96.7	75.3	112.9
141	40.4	35.0	52.4

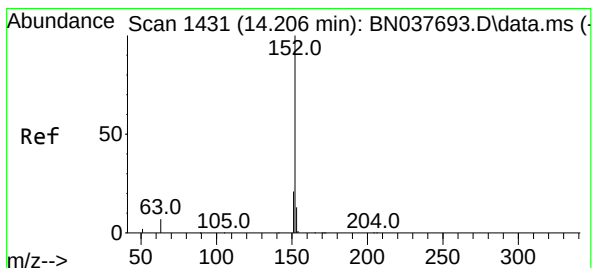
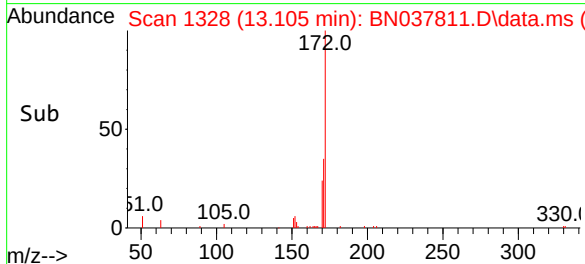
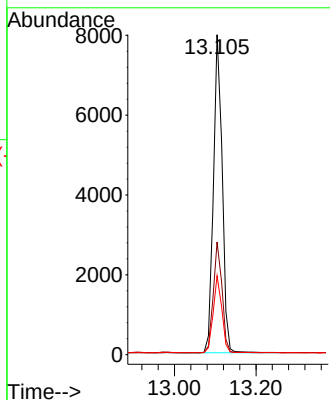
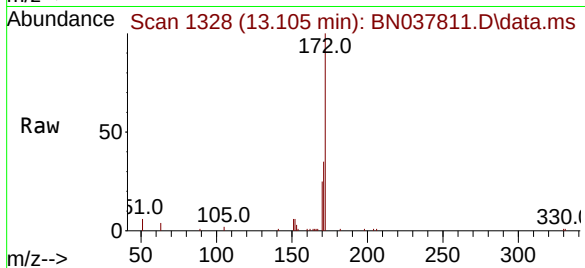




#15
2-Fluorobiphenyl
Concen: 0.386 ng
RT: 13.105 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

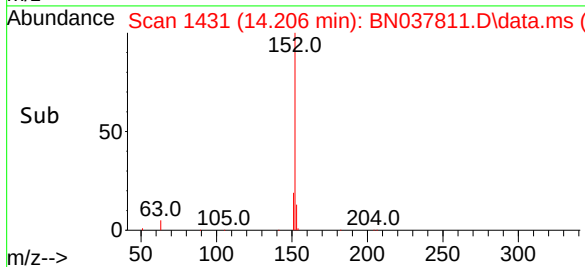
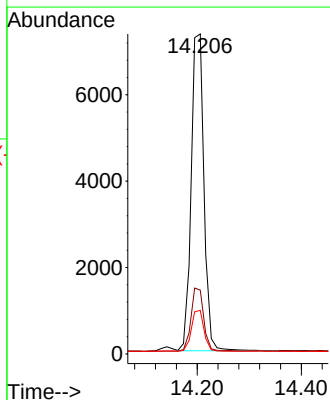
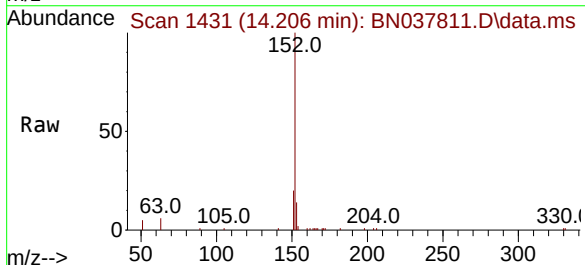
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

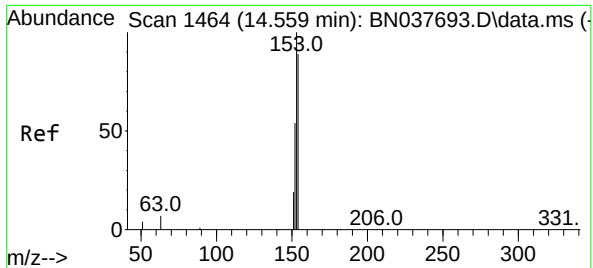
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.6	43.0
170	24.6	19.8	29.8



#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

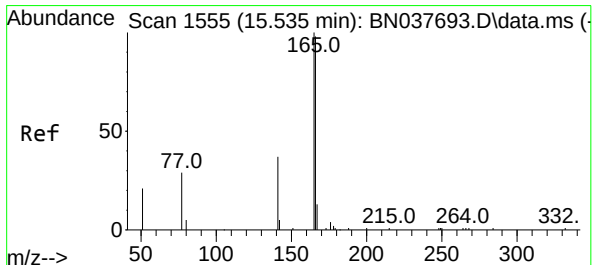
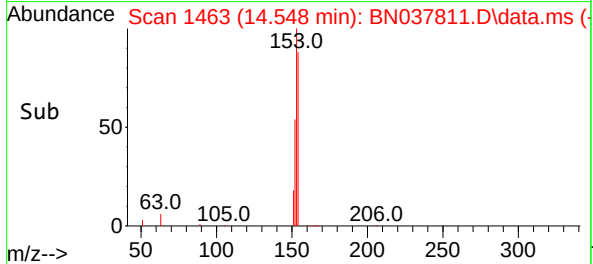
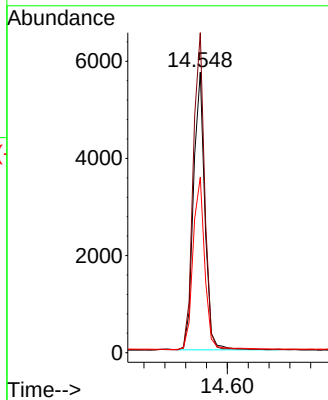
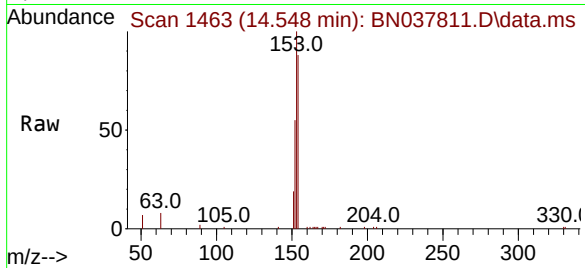




#17
Acenaphthene
Concen: 0.379 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

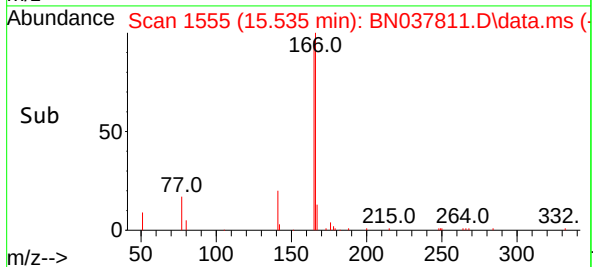
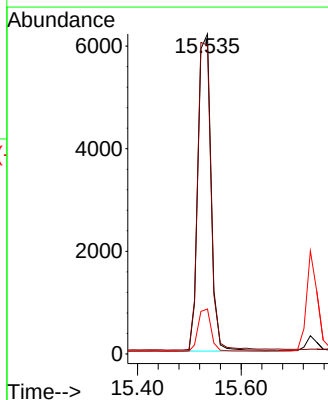
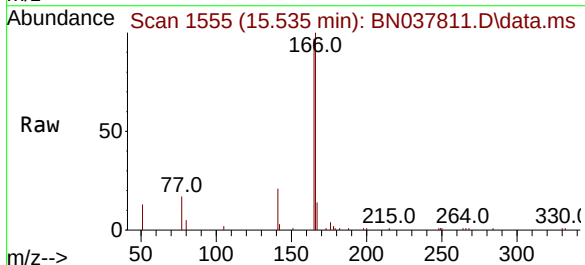
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

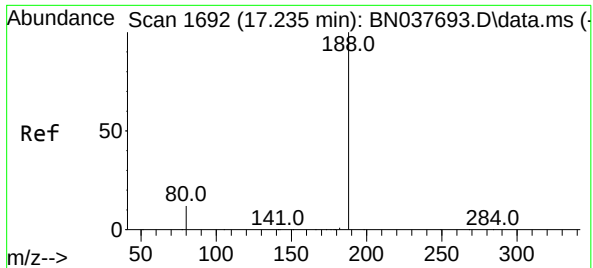
Tgt Ion:154 Resp: 8660
Ion Ratio Lower Upper
154 100
153 114.7 89.8 134.8
152 64.6 50.2 75.2



#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# 1

Delta R.T. -0.013 min

Lab File: BN037811.D

Acq: 19 Sep 2025 13:03

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

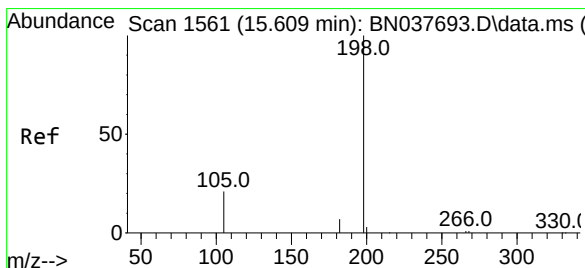
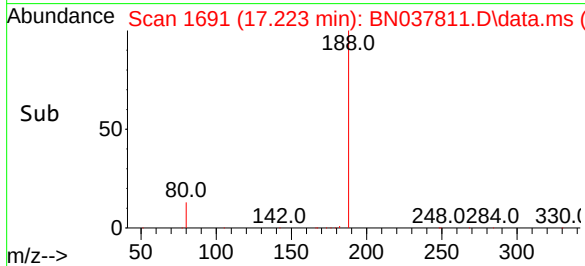
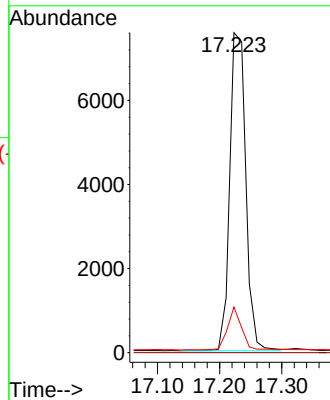
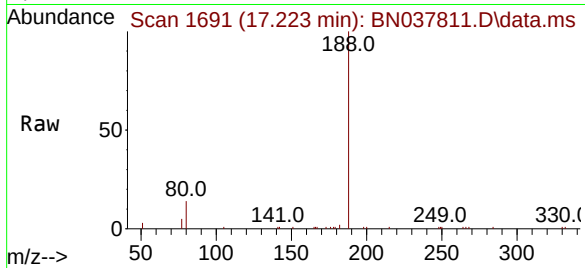
Tgt Ion:188 Resp: 13521

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

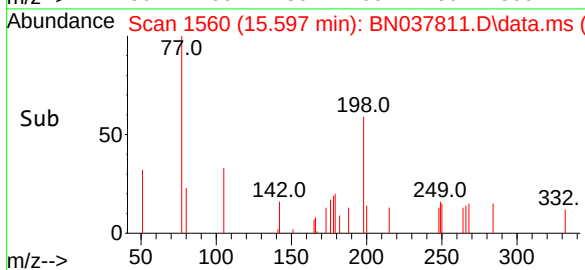
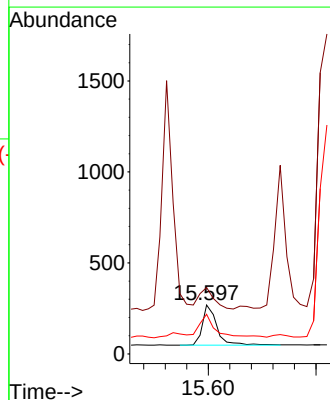
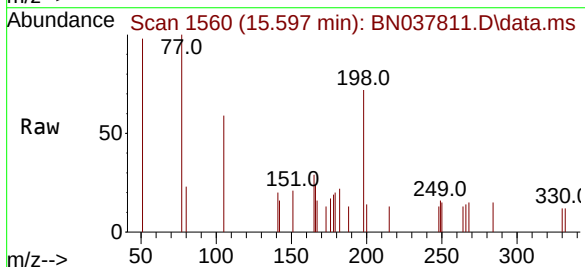
Tgt Ion:198 Resp: 416

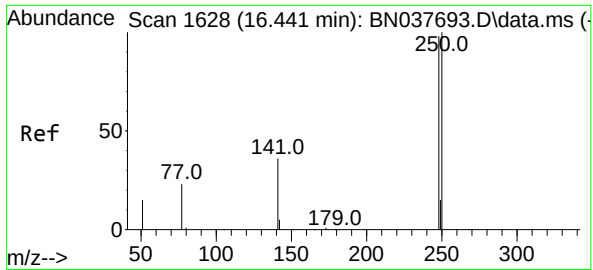
Ion Ratio Lower Upper

198 100

51 135.7 95.1 142.7

105 81.0 53.8 80.6#

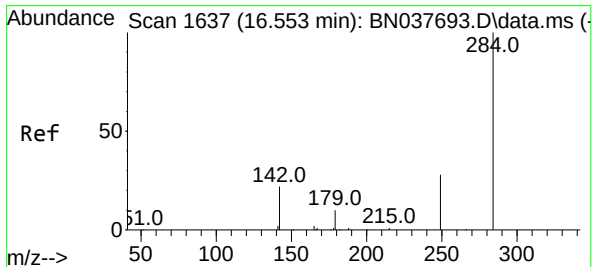
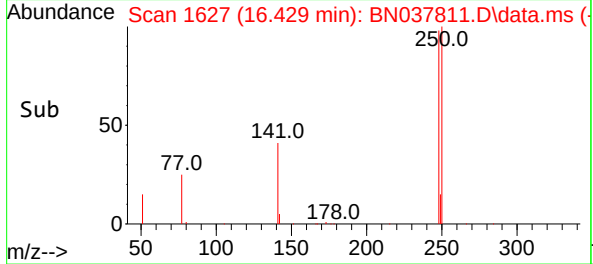
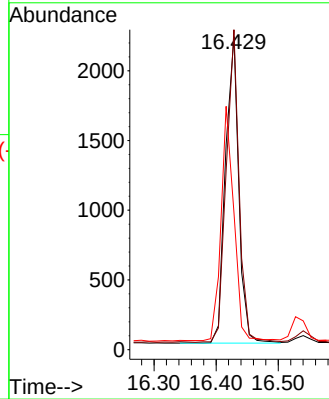
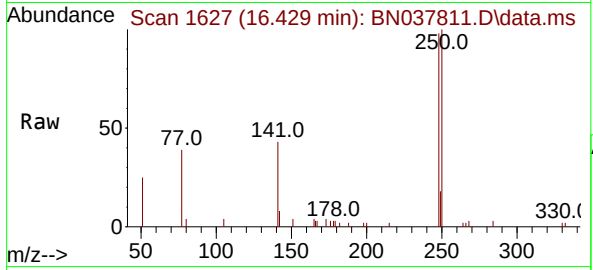




#21
4-Bromophenyl-phenylether
Concen: 0.369 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

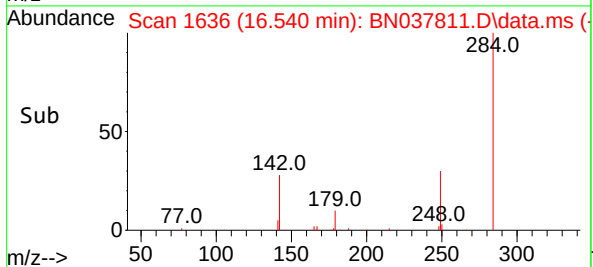
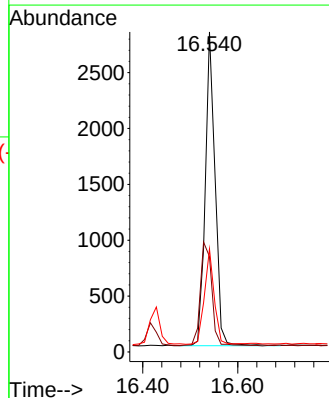
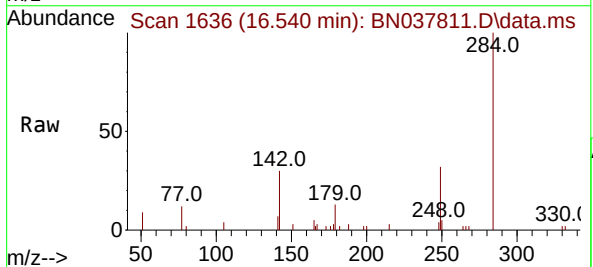
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

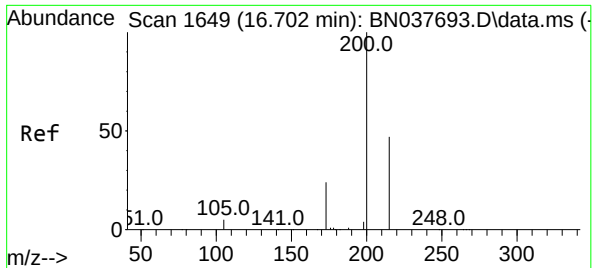
Tgt Ion	Ratio	Lower	Upper
248	100		
250	102.2	81.5	122.3
141	43.8	30.8	46.2



#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

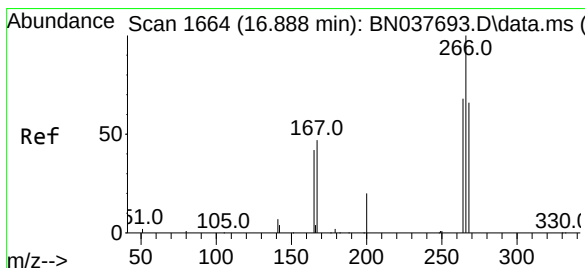
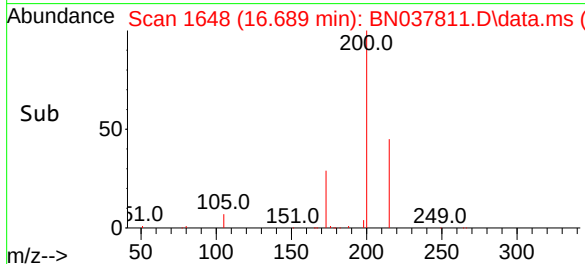
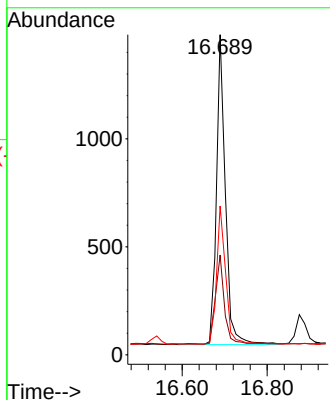
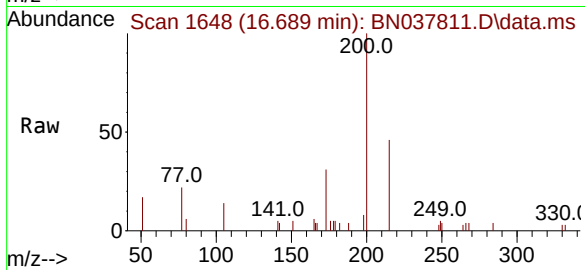




#23
Atrazine
Concen: 0.375 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

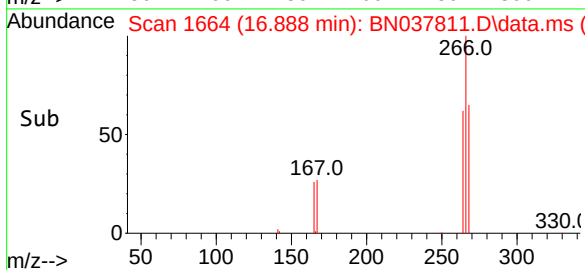
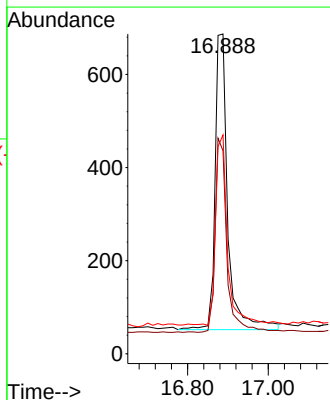
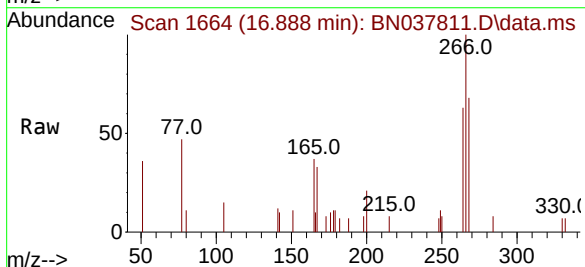
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

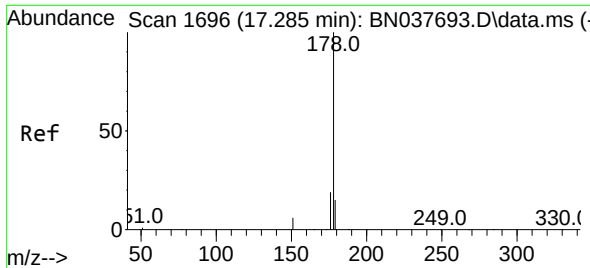
Tgt Ion	Ratio	Lower	Upper
200	100		
173	31.2	21.4	32.2
215	46.5	39.2	58.8



#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

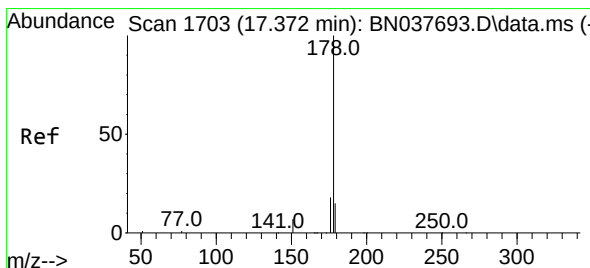
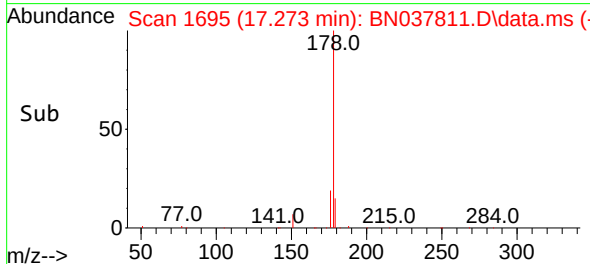
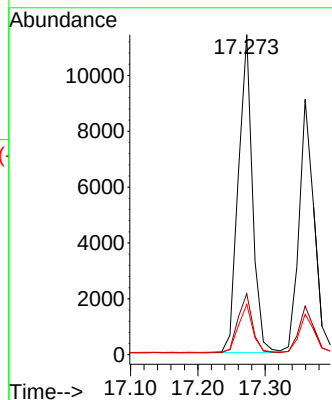
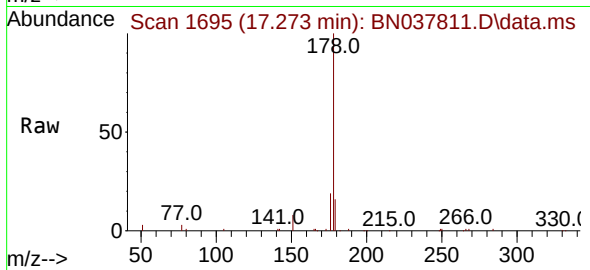




#25
Phenanthrene
Concen: 0.391 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

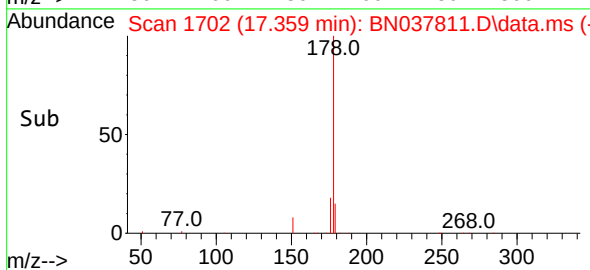
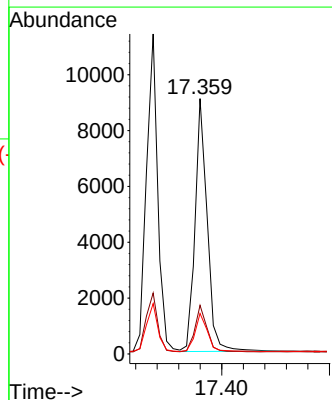
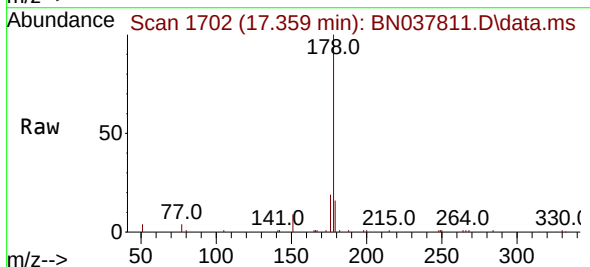
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

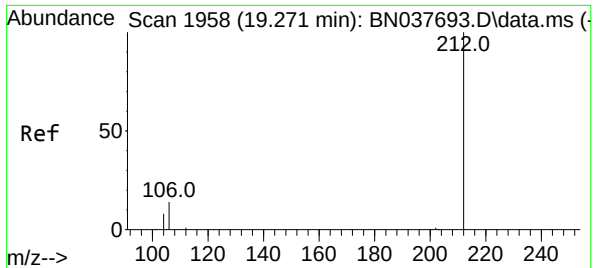
Tgt Ion:178 Resp: 16630
Ion Ratio Lower Upper
178 100
176 18.9 15.3 22.9
179 15.4 12.2 18.2



#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# 1958

Delta R.T. -0.009 min

Lab File: BN037811.D

Acq: 19 Sep 2025 13:03

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

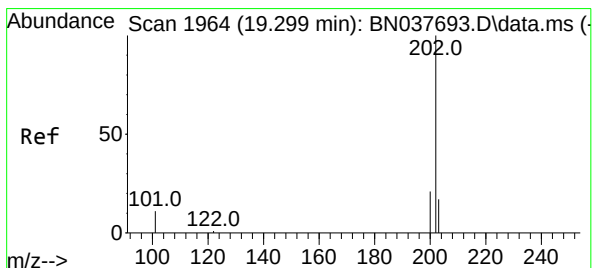
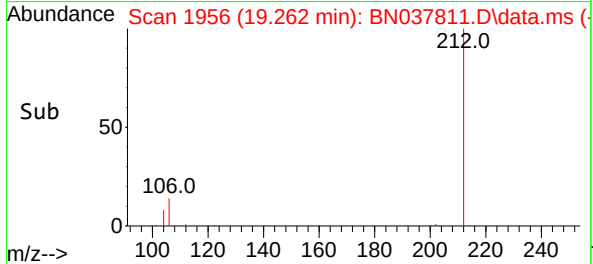
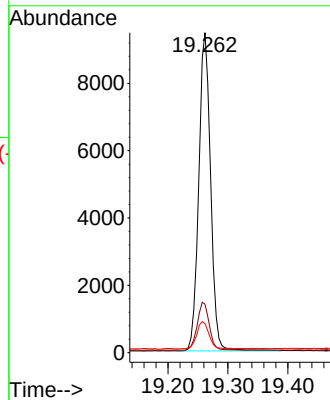
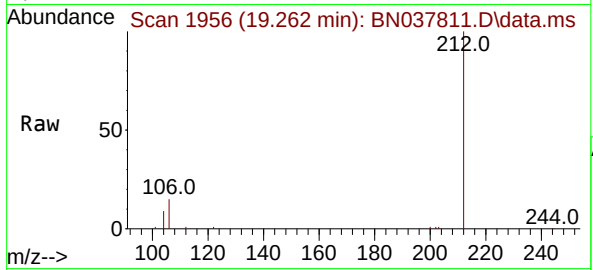
Tgt Ion:212 Resp: 12937

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

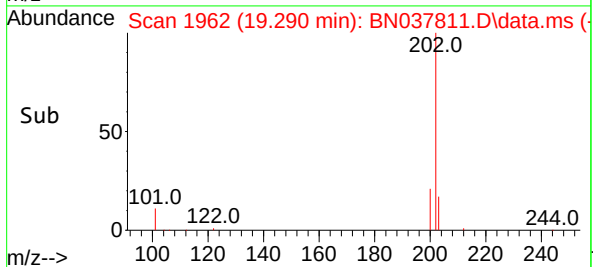
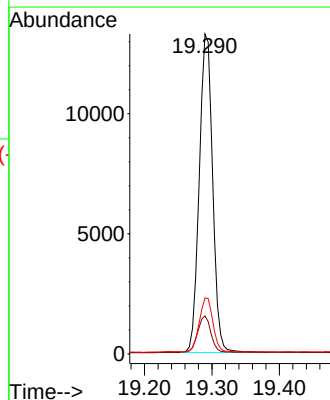
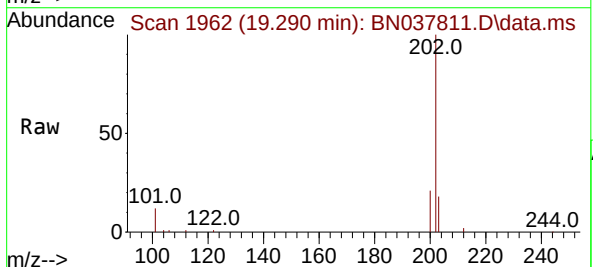
Tgt Ion:202 Resp: 18266

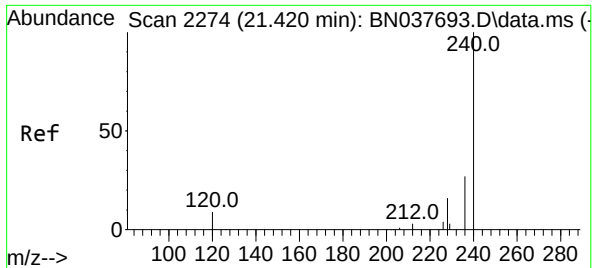
Ion Ratio Lower Upper

202 100

101 11.4 9.3 13.9

203 17.2 13.7 20.5

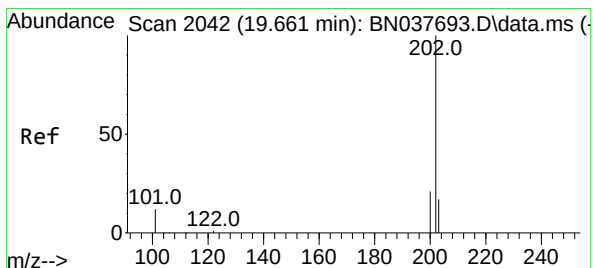
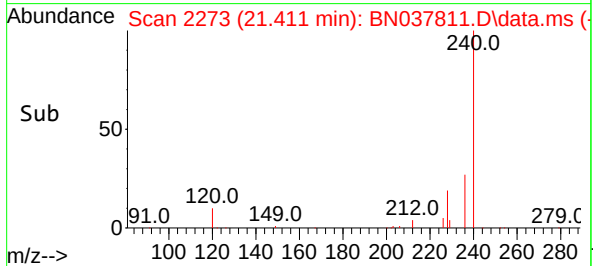
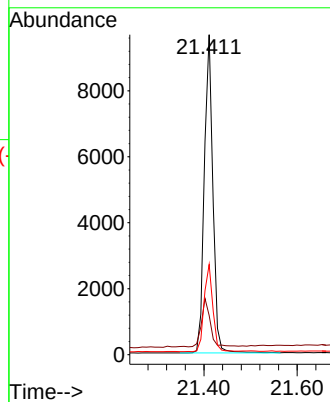
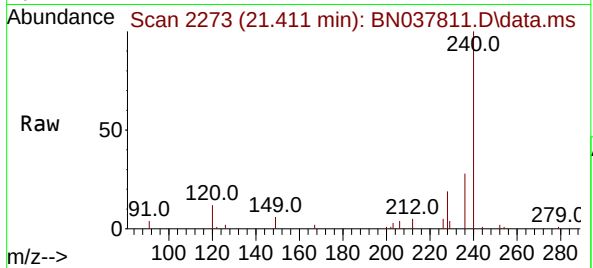




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

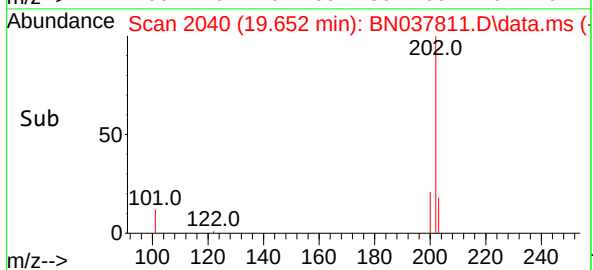
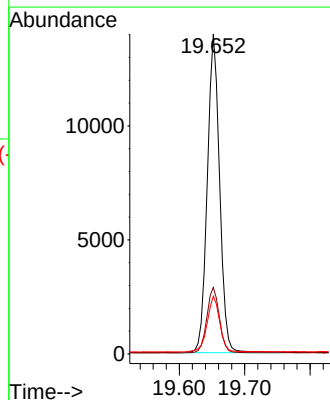
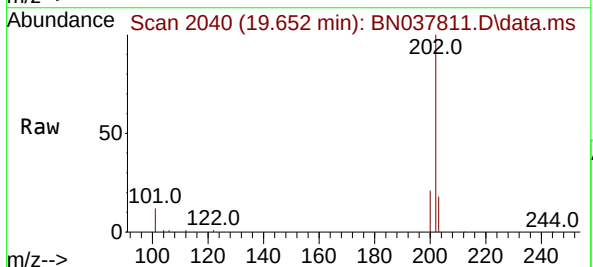
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

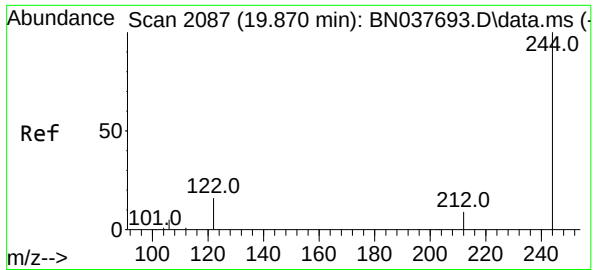
Tgt Ion:240 Resp: 12361
Ion Ratio Lower Upper
240 100
120 12.3 9.2 13.8
236 28.2 22.6 33.8



#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:202 Resp: 18234
Ion Ratio Lower Upper
202 100
200 20.8 16.8 25.2
203 17.8 14.3 21.5

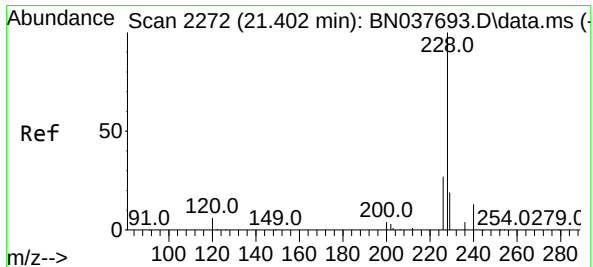
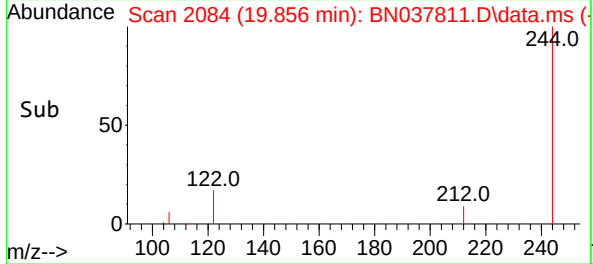
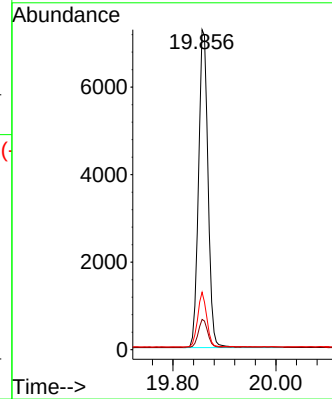
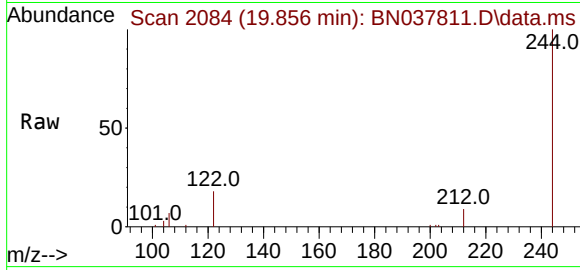




#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

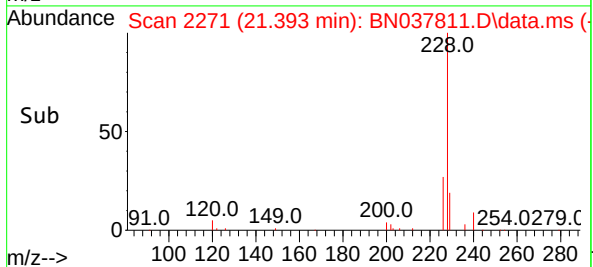
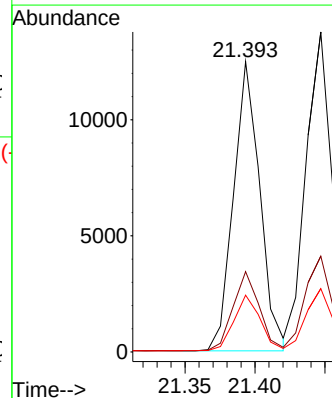
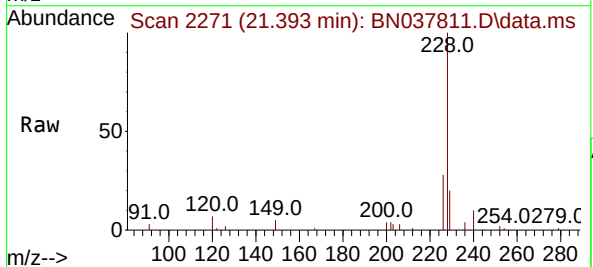
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

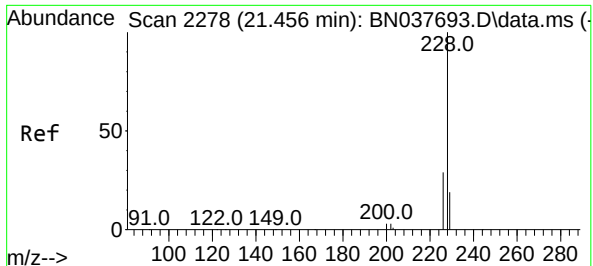
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.5	11.3
122	18.0	13.2	19.8



#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	Ratio	Lower	Upper
228	100		
226	27.7	22.2	33.2
229	19.6	15.8	23.6

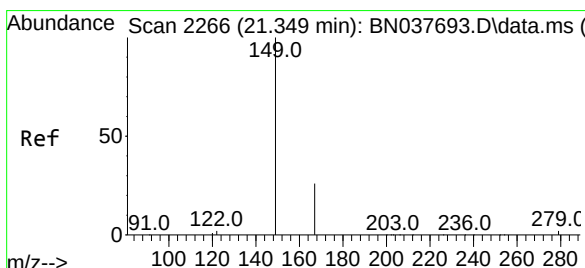
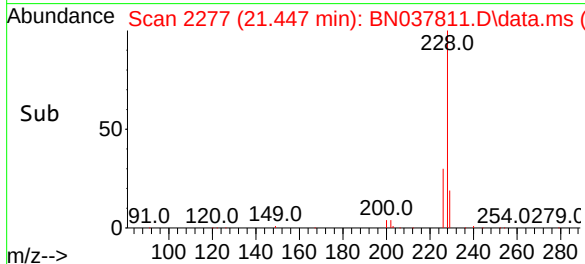
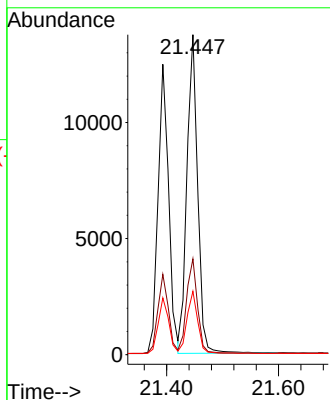
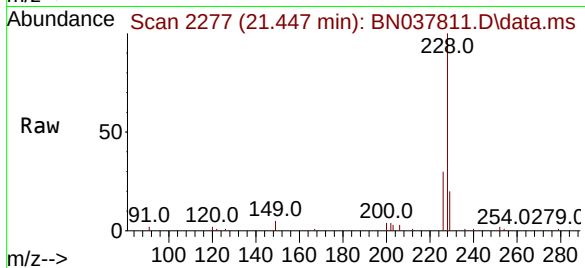




#33
Chrysene
Concen: 0.396 ng
RT: 21.447 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

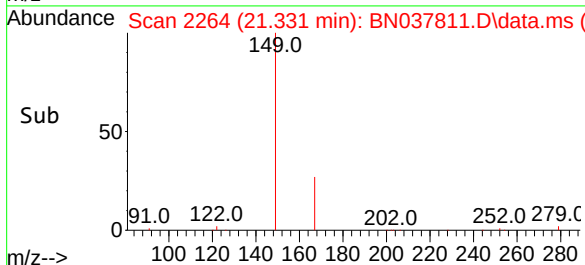
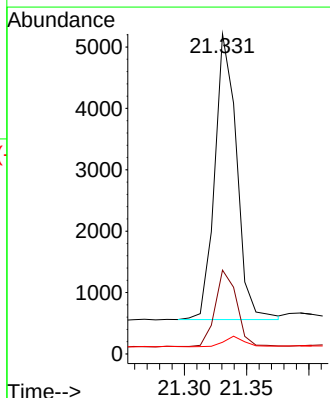
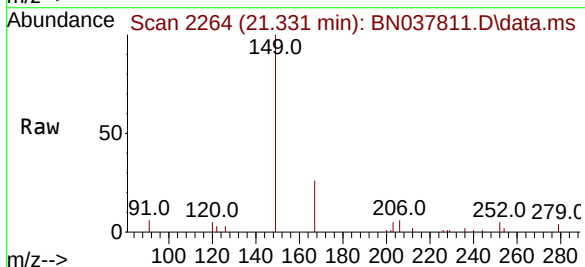
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

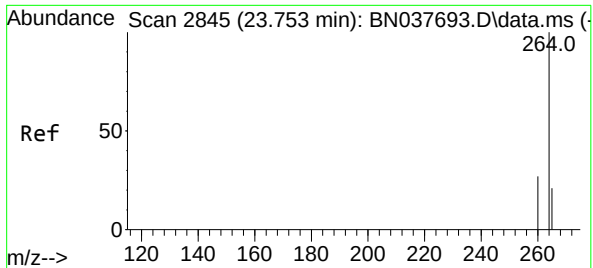
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	23.5	35.3
229	19.8	15.9	23.9



#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

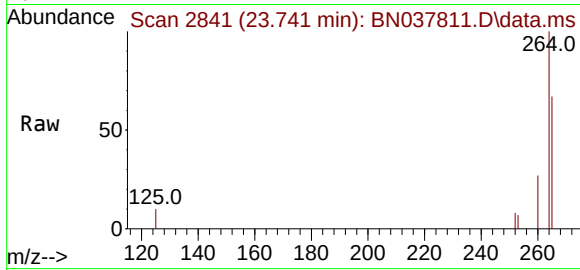
Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.3	20.8	31.2
279	3.6	3.3	4.9



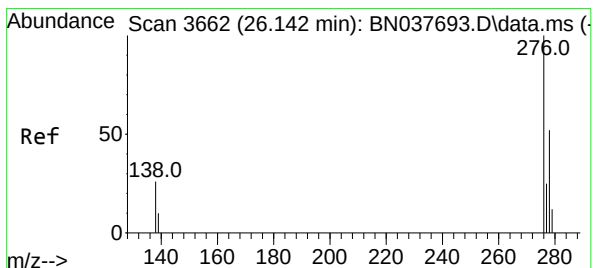
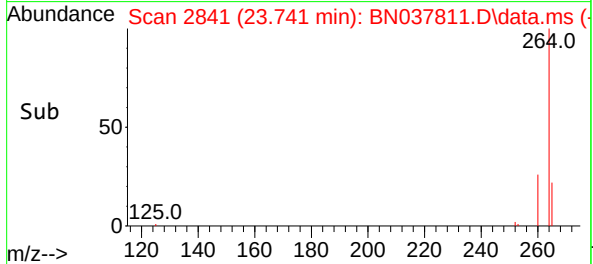
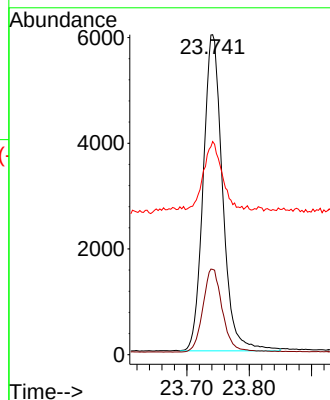


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.741 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

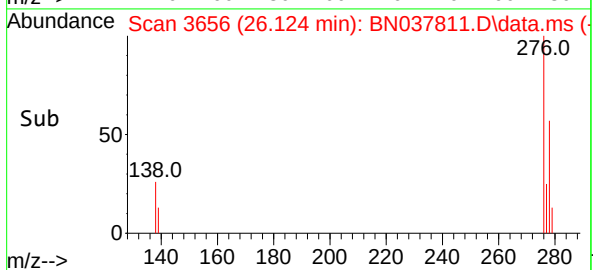
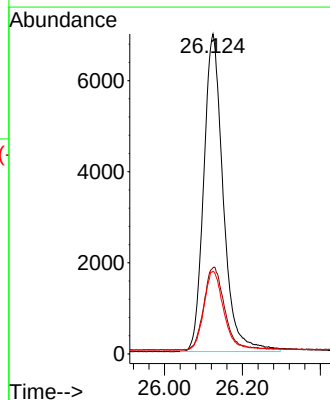
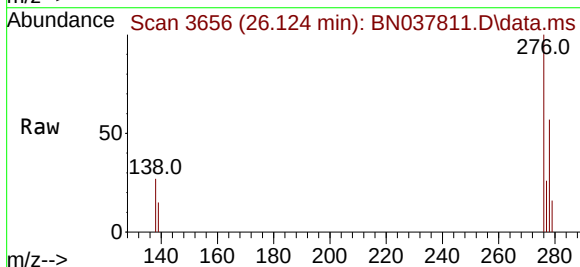


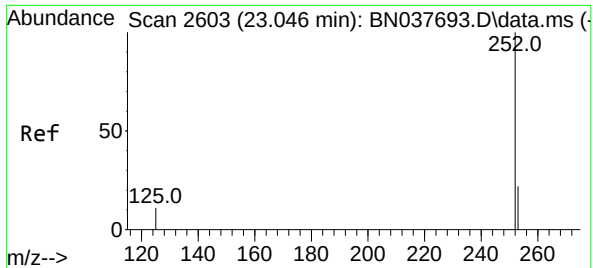
Tgt Ion:264 Resp: 12915
Ion Ratio Lower Upper
264 100
260 26.7 21.8 32.8
265 66.6 39.4 59.2#



#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

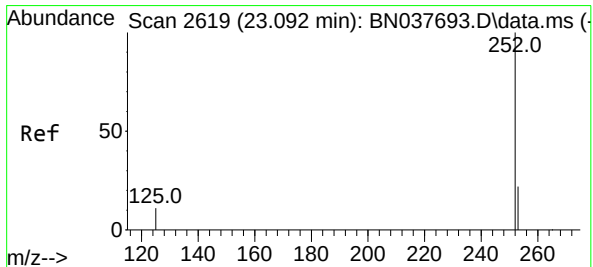
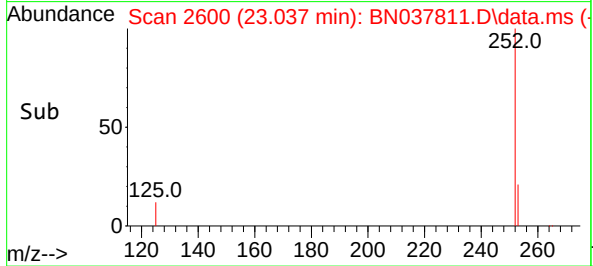
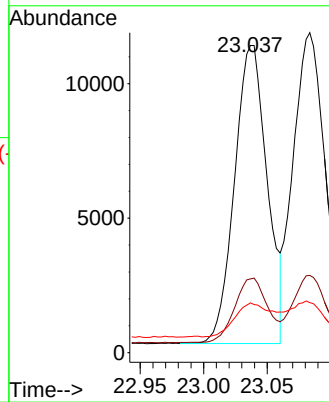
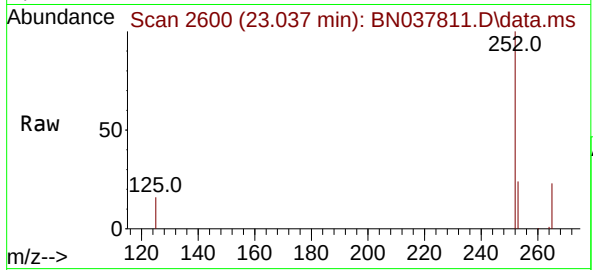




#37
Benzo(b)fluoranthene
Concen: 0.389 ng
RT: 23.037 min Scan# 2600
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

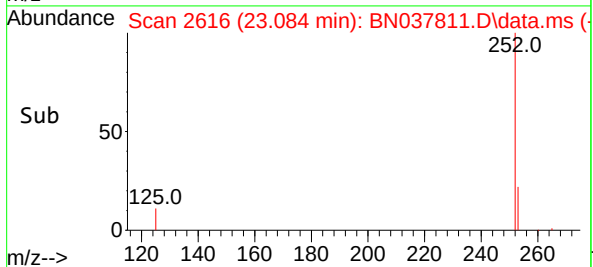
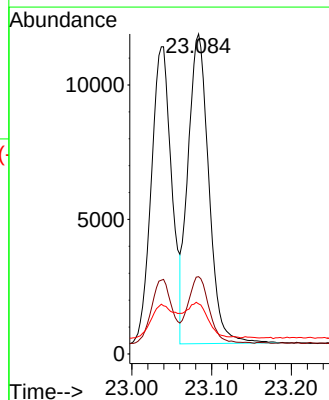
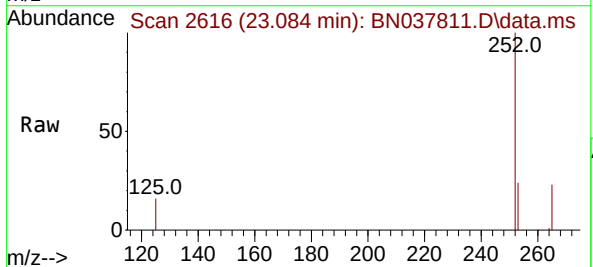
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

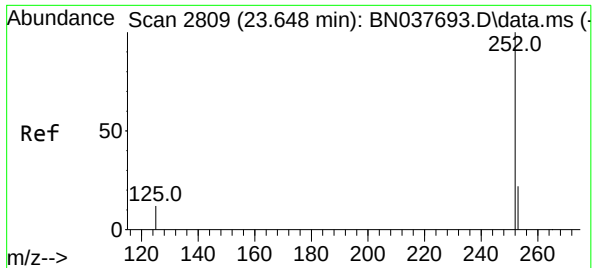
Tgt Ion:252 Resp: 19797
Ion Ratio Lower Upper
252 100
253 24.0 19.4 29.2
125 16.2 11.2 16.8



#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

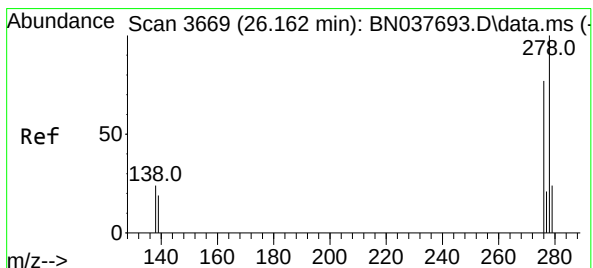
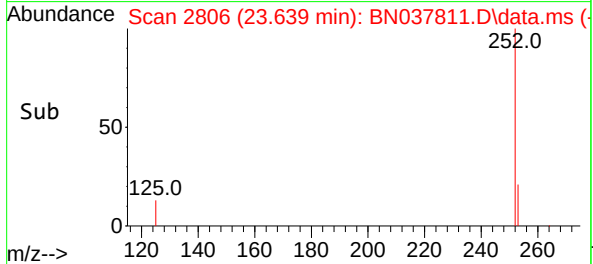
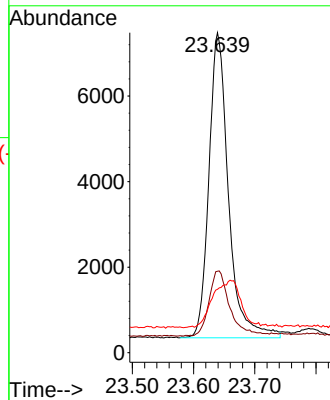
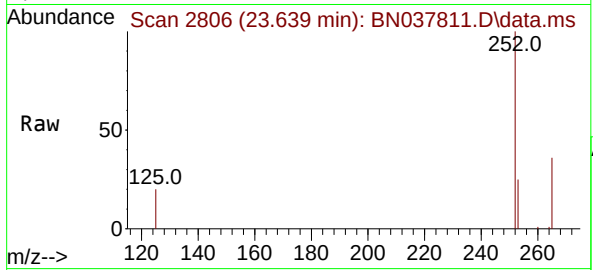
Tgt Ion:252 Resp: 15816

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

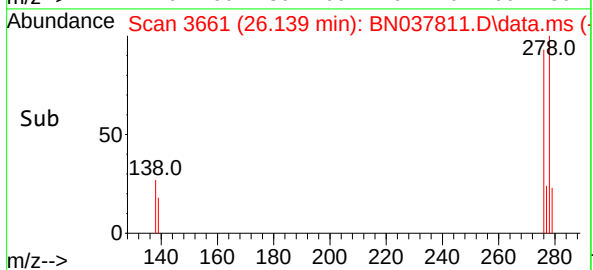
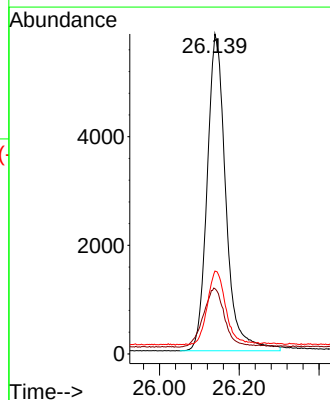
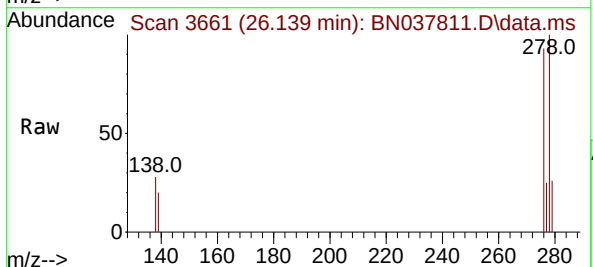
Tgt Ion:278 Resp: 18950

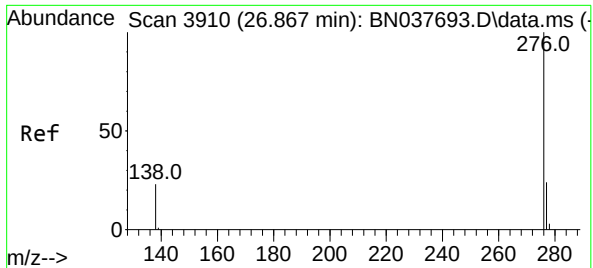
Ion Ratio Lower Upper

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

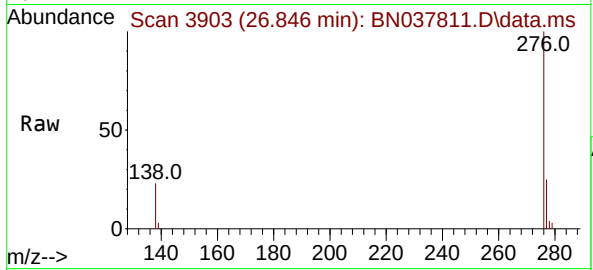
Acq: 19 Sep 2025 13:03

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



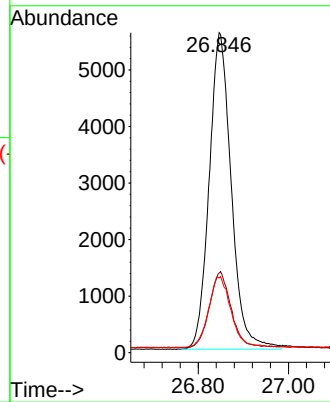
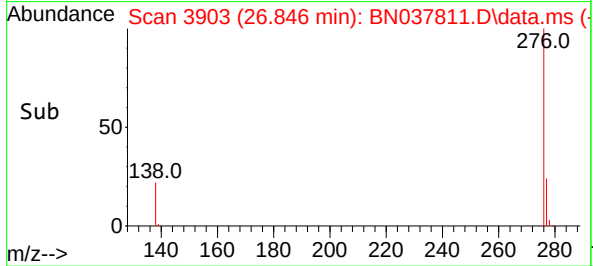
Tgt Ion:276 Resp: 18988

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.: Q3127
 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)

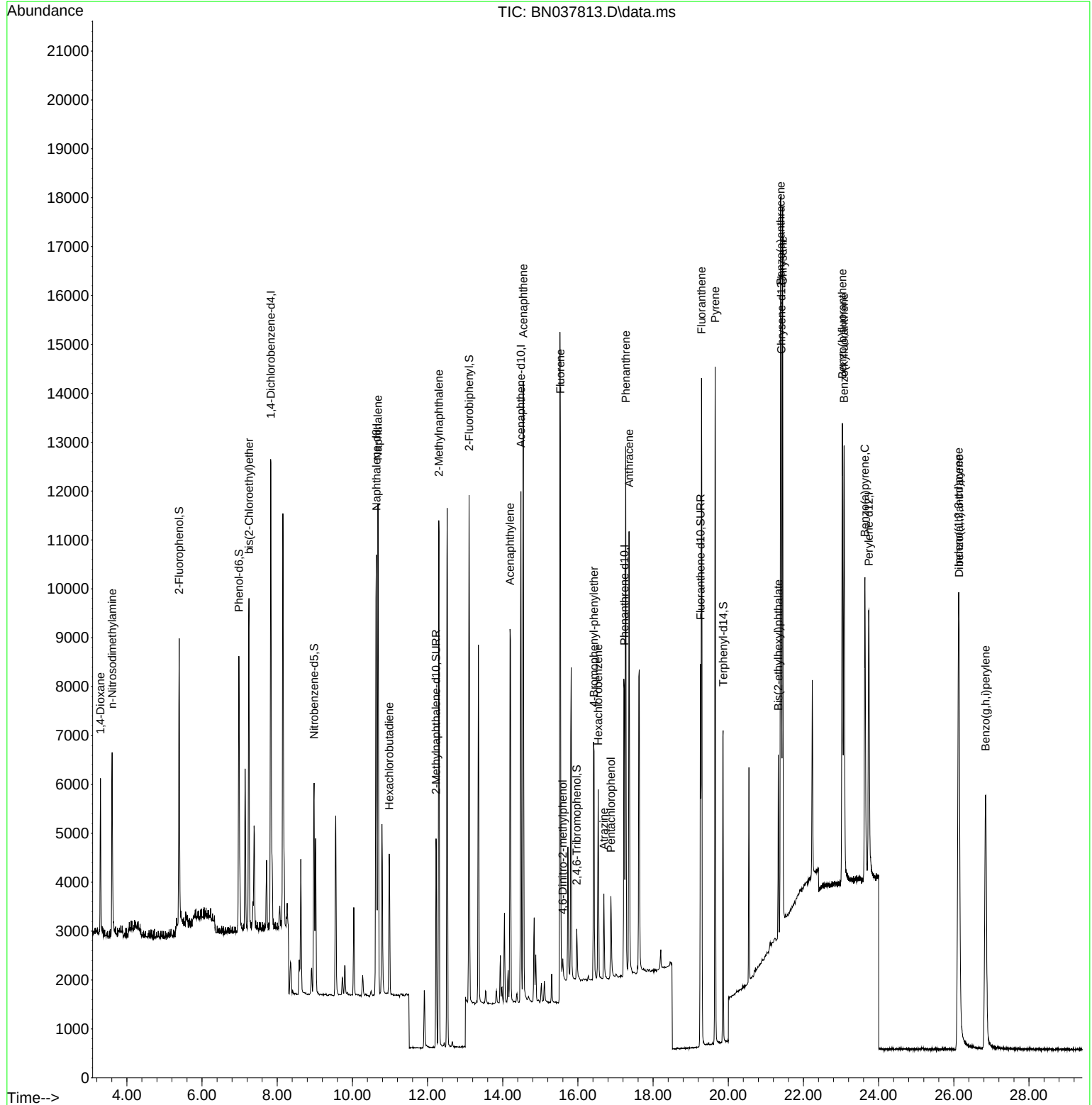
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	4812	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	12410	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	5585	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	9638	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	8466	0.400	ng	0.00
35) Perylene-d12	23.739	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

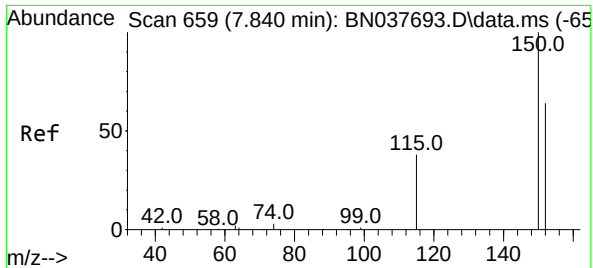
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Data File : BN037813.D
Acq On : 19 Sep 2025 14:19
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

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



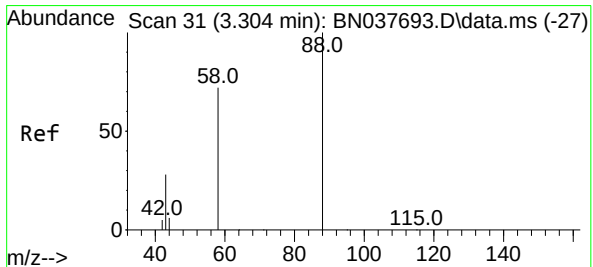
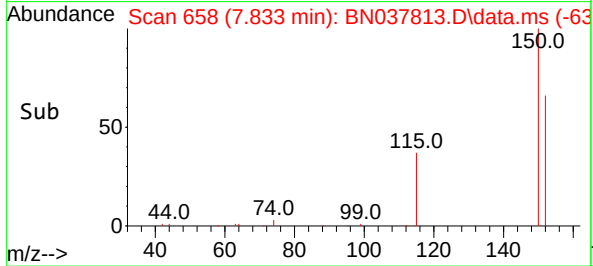
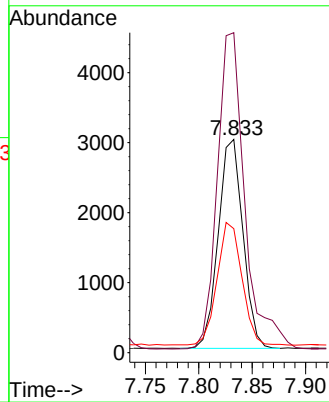
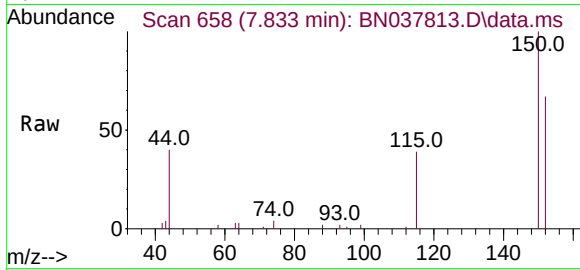
1
2
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18



#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

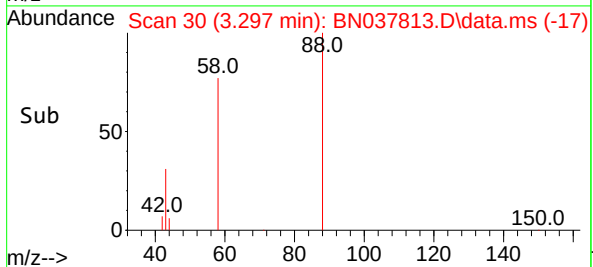
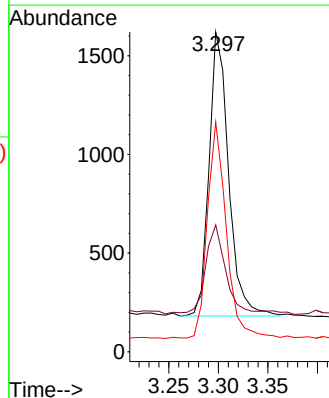
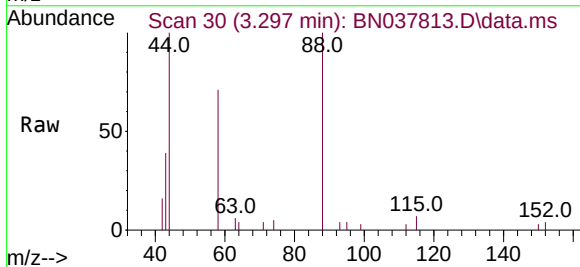
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

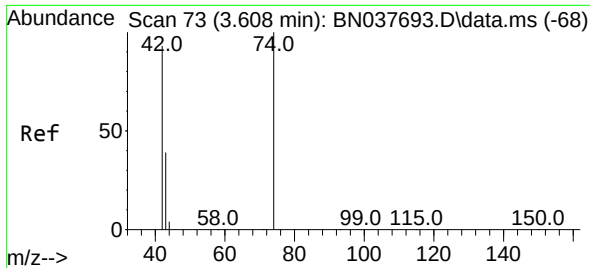
Tgt Ion:152 Resp: 4812
Ion Ratio Lower Upper
152 100
150 150.0 124.5 186.7
115 58.1 49.2 73.8



#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

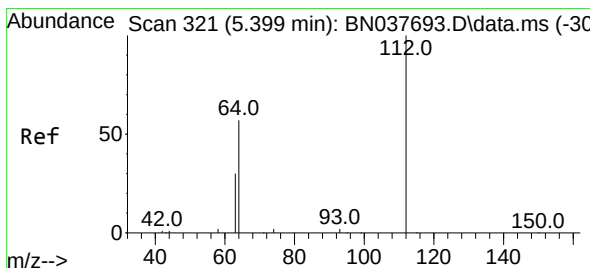
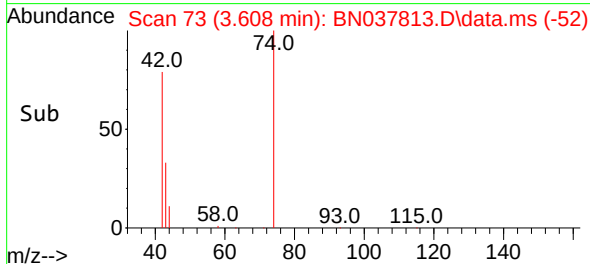
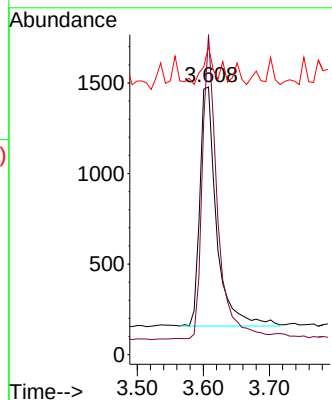
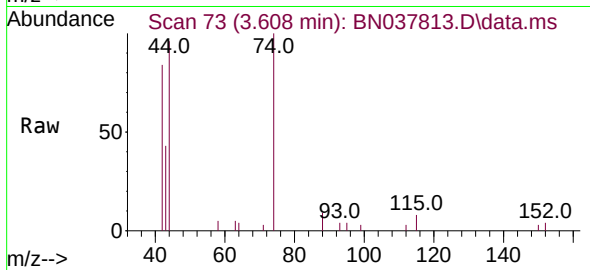




#3
n-Nitrosodimethylamine
Concen: 0.354 ng
RT: 3.608 min Scan# 73
Delta R.T. 0.000 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

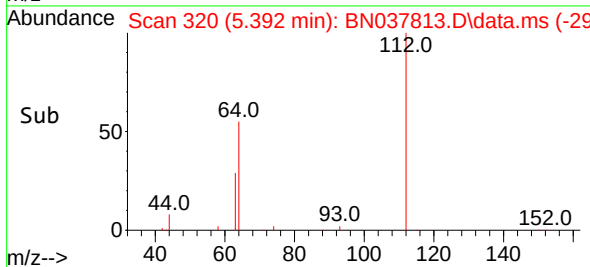
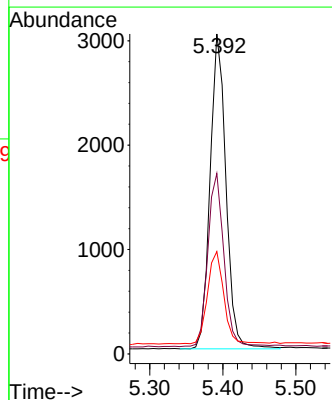
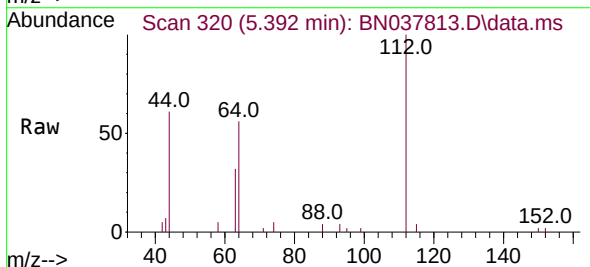
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

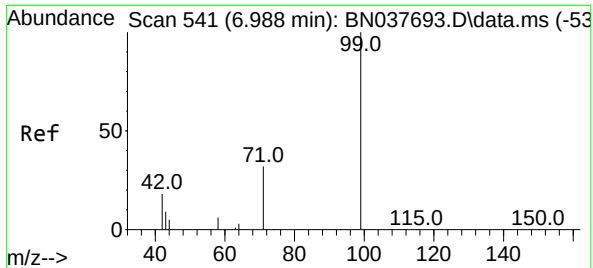
Tgt Ion: 42 Resp: 2320
Ion Ratio Lower Upper
42 100
74 116.8 86.0 129.0
44 10.1 8.4 12.6



#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

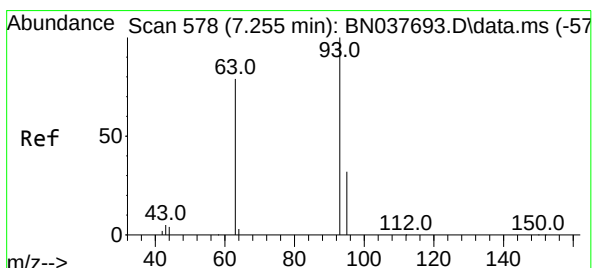
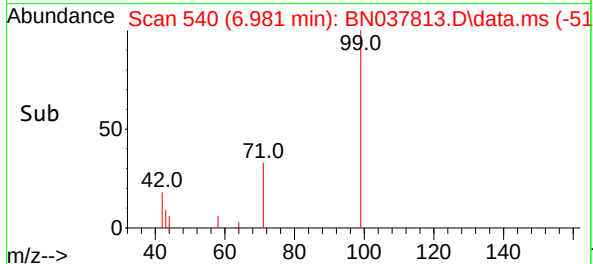
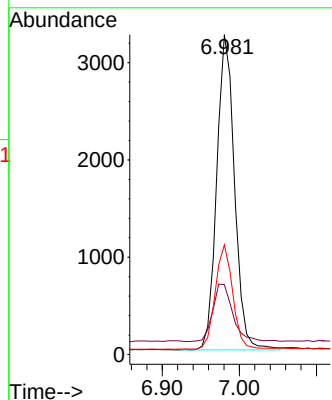
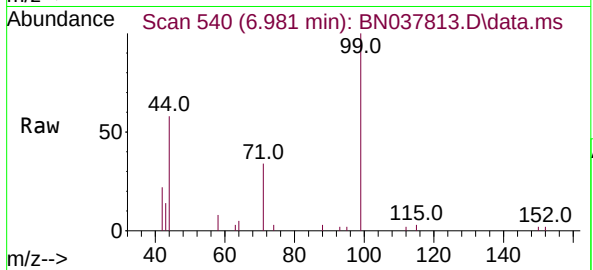




#5
Phenol-d6
Concen: 0.362 ng
RT: 6.981 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

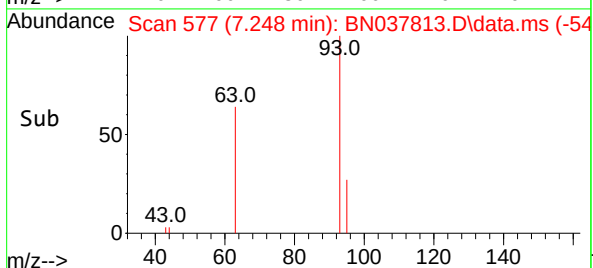
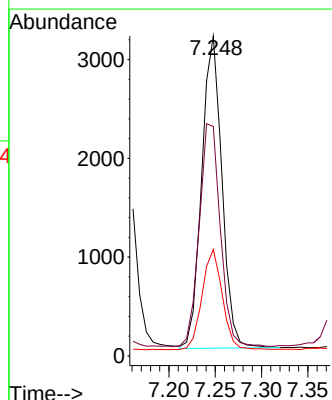
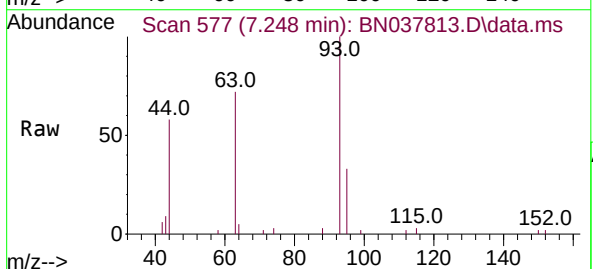
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

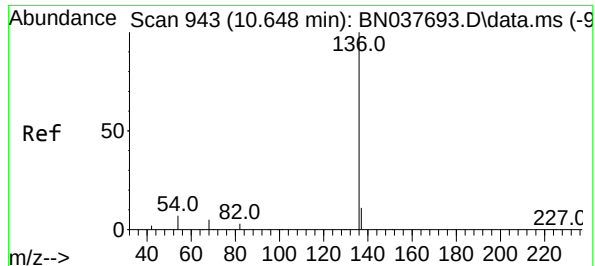
Tgt Ion: 99 Resp: 5192
Ion Ratio Lower Upper
99 100
42 20.6 16.6 24.8
71 33.1 26.7 40.1



#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

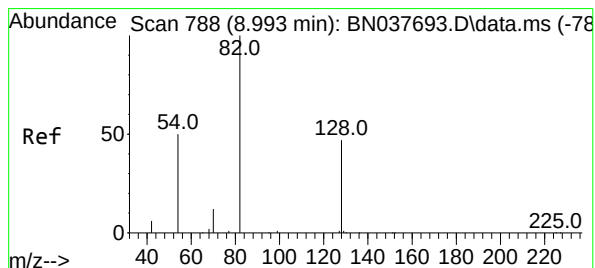
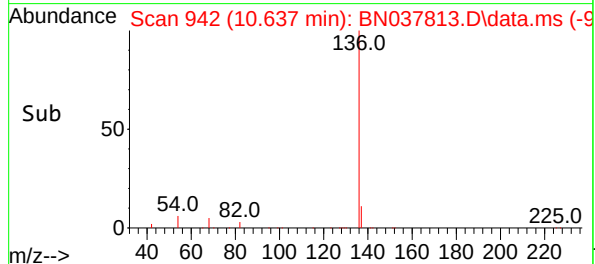
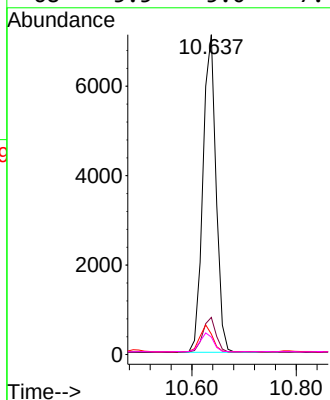
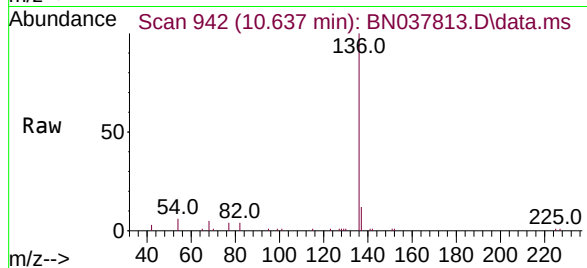




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

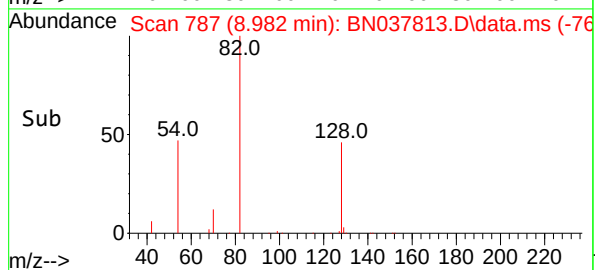
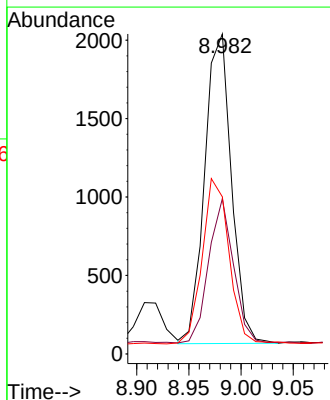
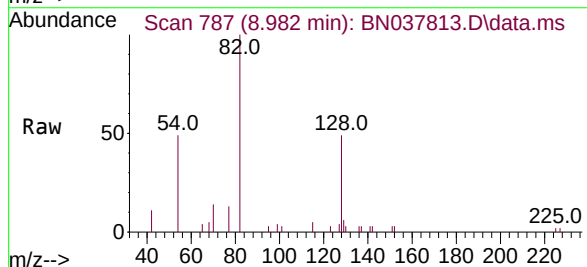
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

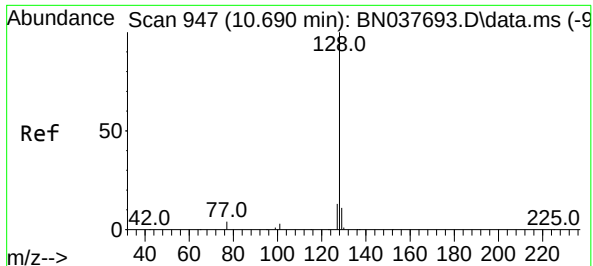
Tgt Ion:	136	Resp:	12410
Ion Ratio	Lower	Upper	
136	100		
137	11.6	9.1	13.7
54	6.4	6.3	9.5
68	5.5	5.0	7.4



#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

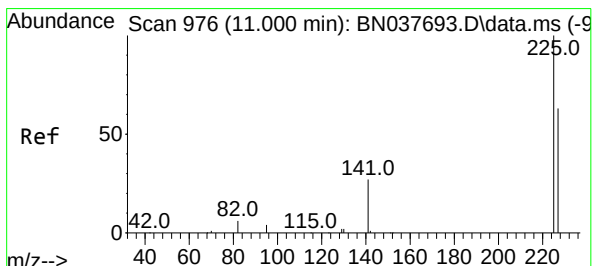
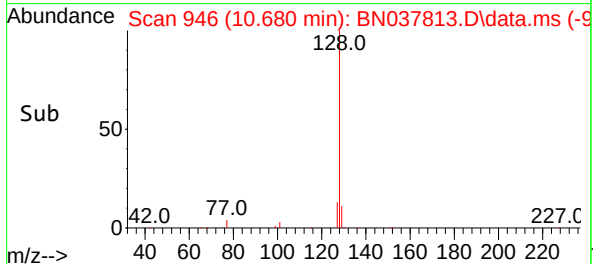
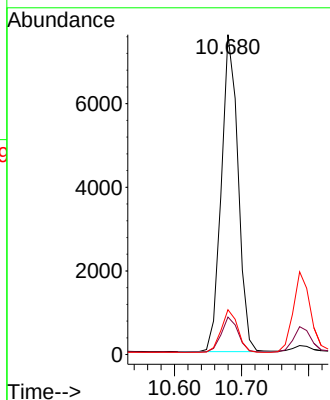
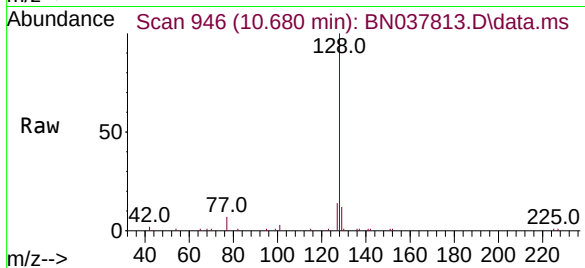




#9
Naphthalene
Concen: 0.386 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

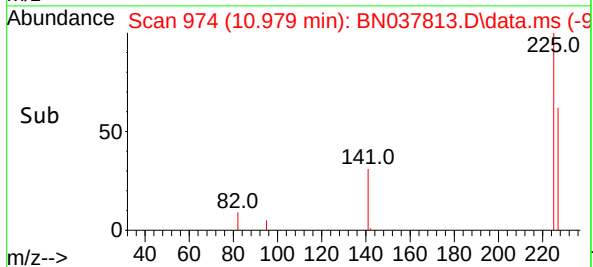
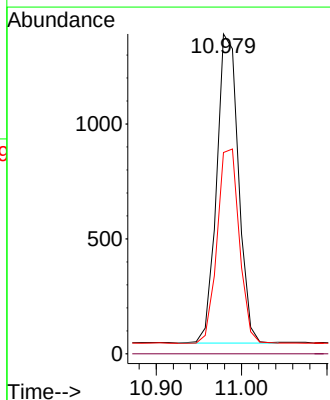
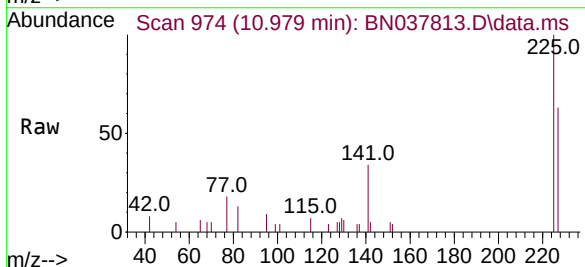
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

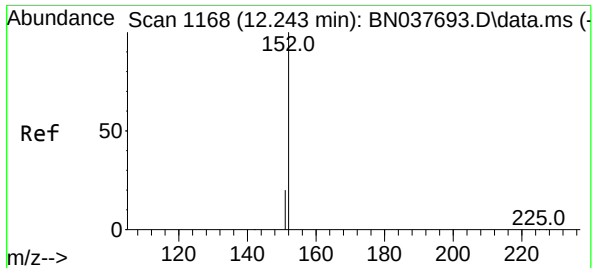
Tgt Ion:128 Resp: 13094
Ion Ratio Lower Upper
128 100
129 11.7 9.1 13.7
127 14.0 10.9 16.3



#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

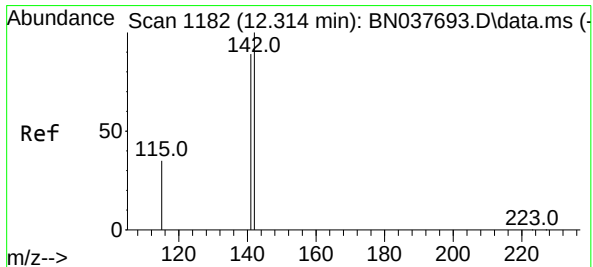
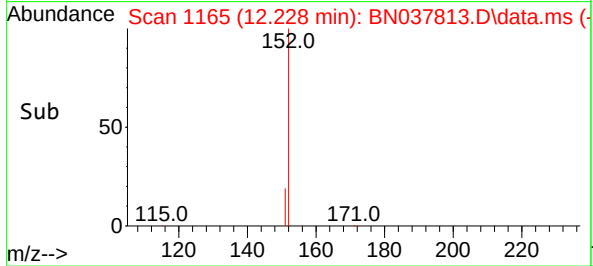
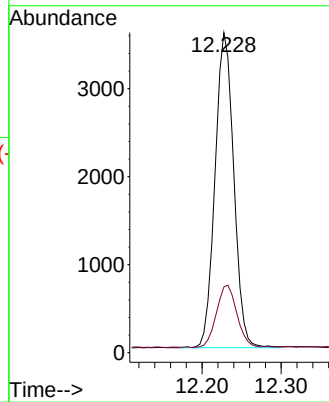
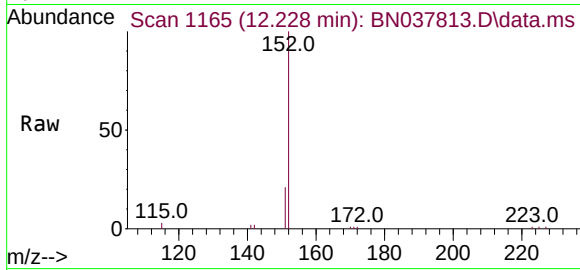




#11
2-Methylnaphthalene-d10
Concen: 0.357 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

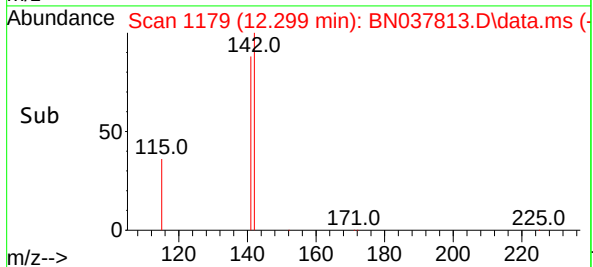
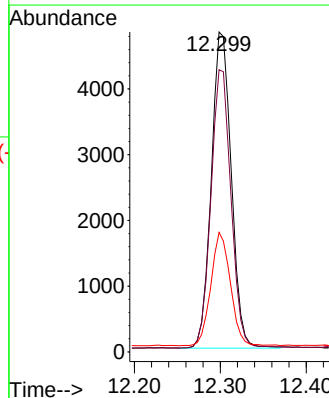
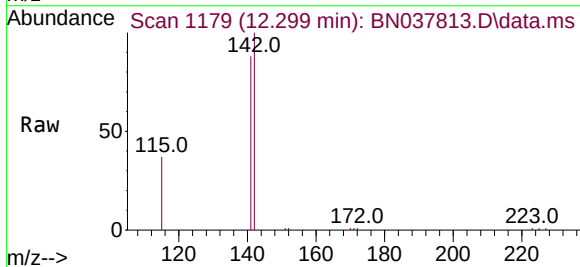
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

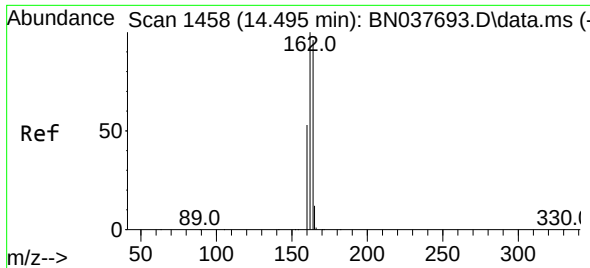
Tgt Ion:152 Resp: 5866
Ion Ratio Lower Upper
152 100
151 21.8 17.0 25.6



#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

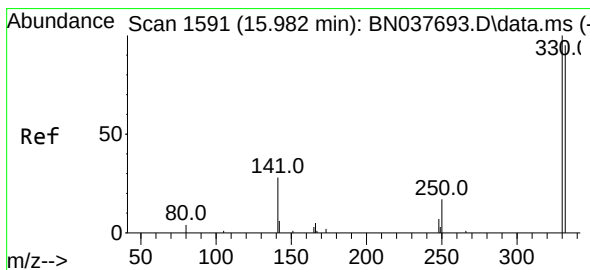
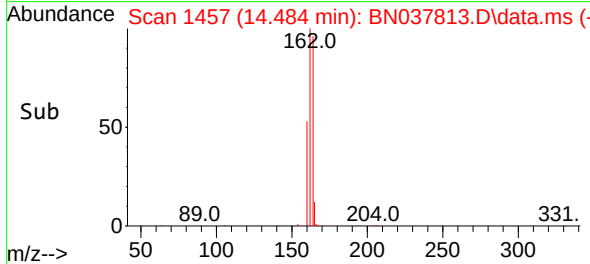
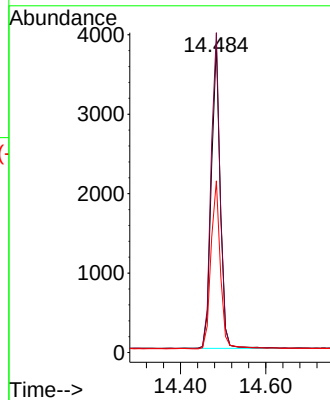
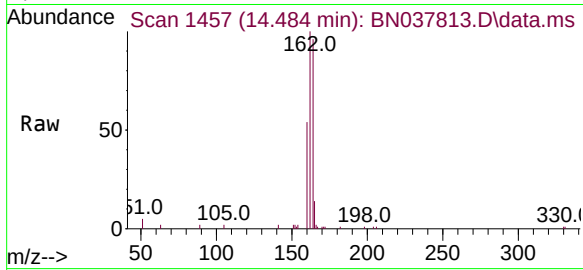




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1458
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

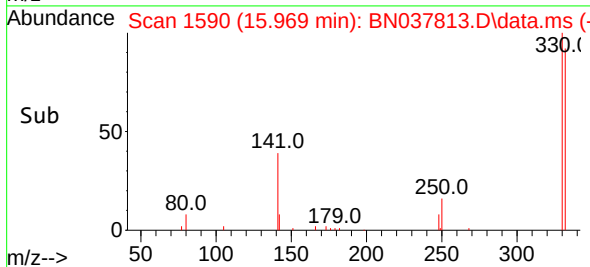
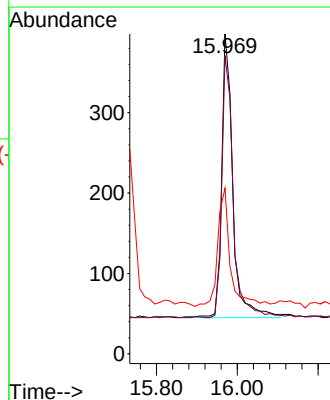
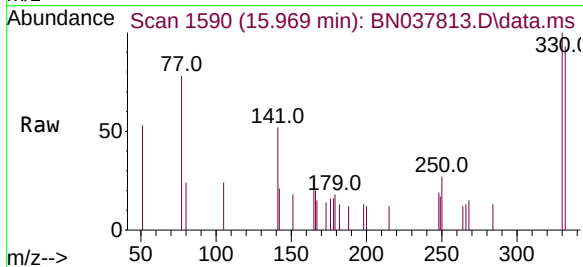
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

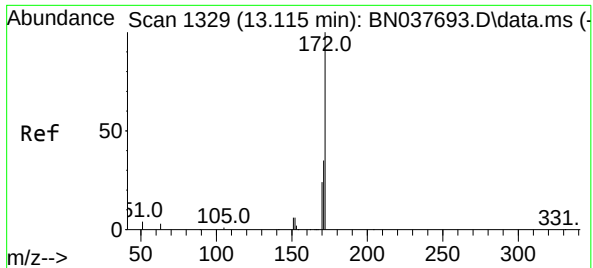
Tgt Ion	164	Resp:	5585
Ion Ratio	Lower	Upper	
164	100		
162	104.0	83.1	124.7
160	55.8	44.3	66.5



#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	330	Resp:	674
Ion Ratio	Lower	Upper	
330	100		
332	94.2	75.3	112.9
141	47.2	35.0	52.4

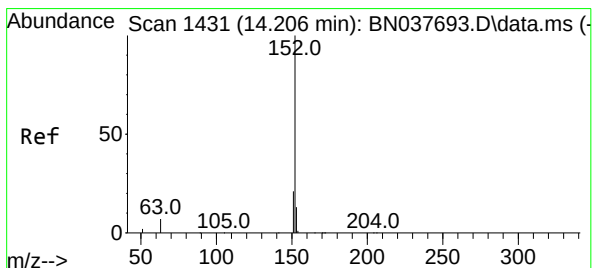
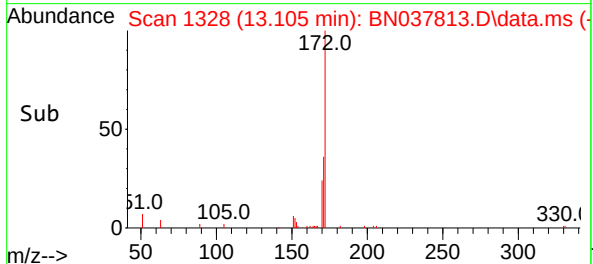
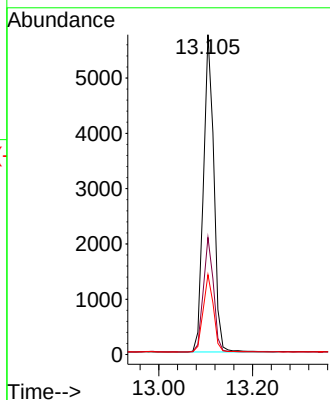
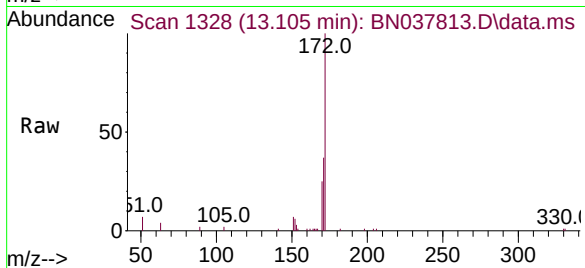




#15
2-Fluorobiphenyl
Concen: 0.380 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

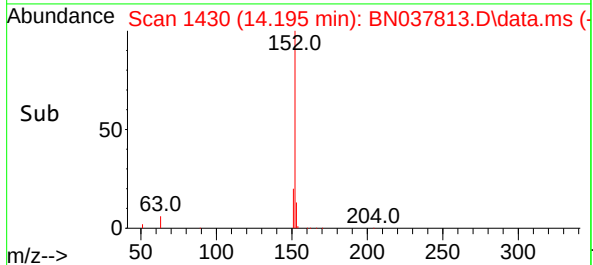
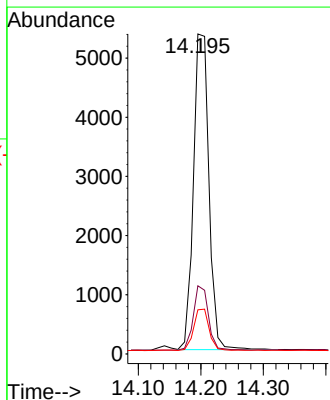
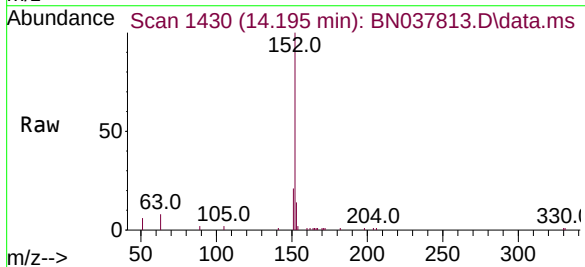
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

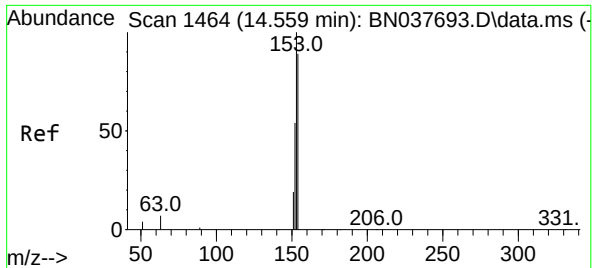
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.6	28.6	43.0
170	25.0	19.8	29.8



#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

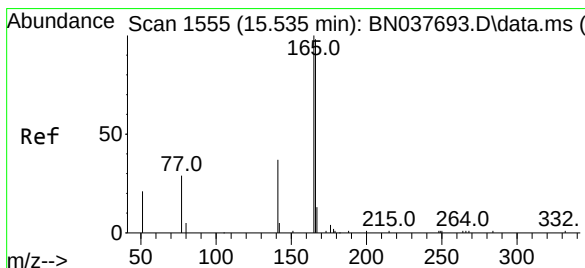
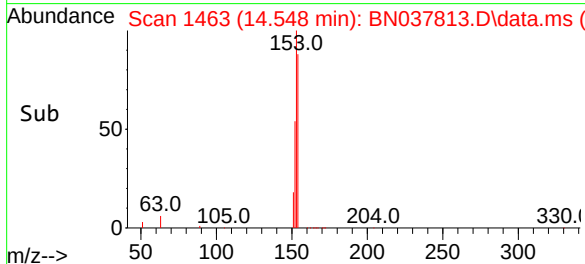
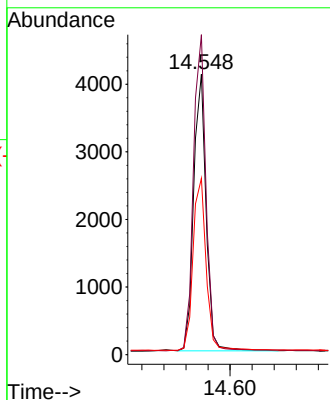
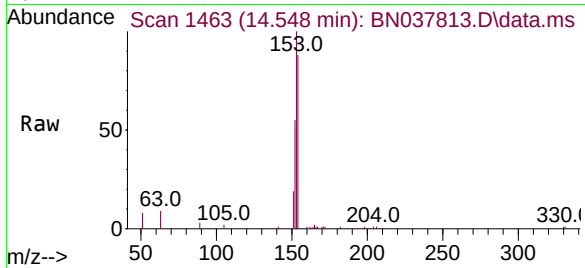




#17
Acenaphthene
Concen: 0.370 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

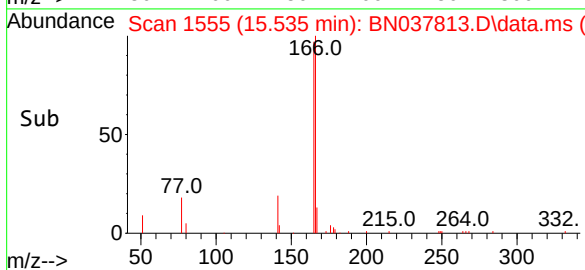
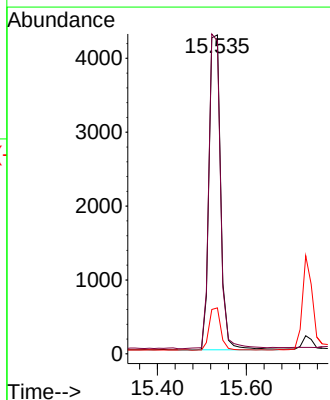
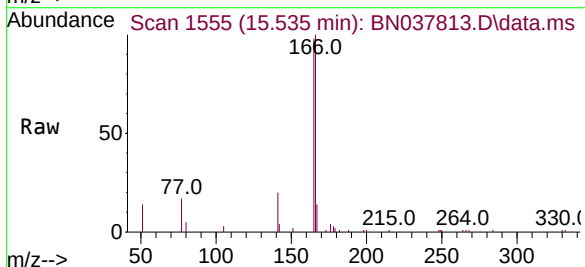
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

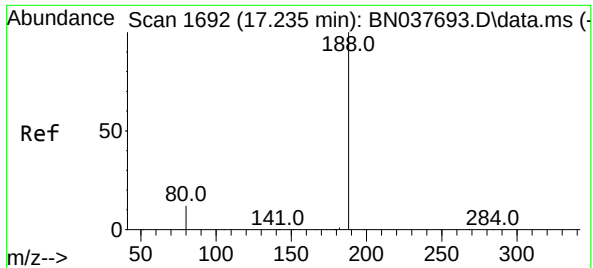
Tgt Ion	154	Resp:	6415
Ion Ratio	Lower	Upper	
154	100		
153	115.7	89.8	134.8
152	65.5	50.2	75.2



#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

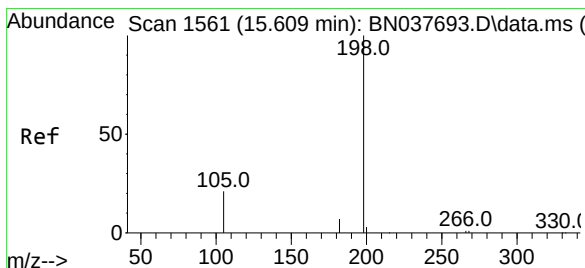
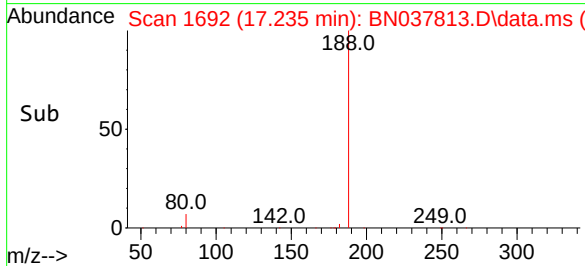
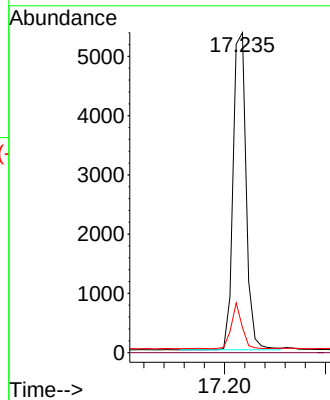
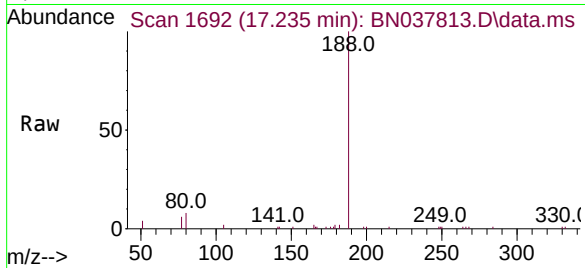
Tgt Ion:188 Resp: 9638

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

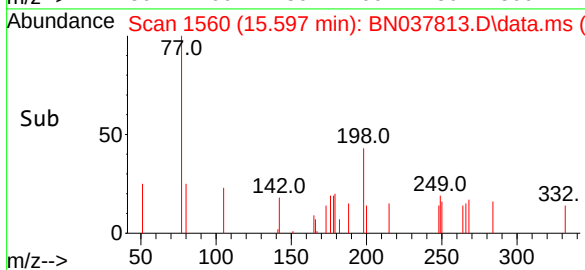
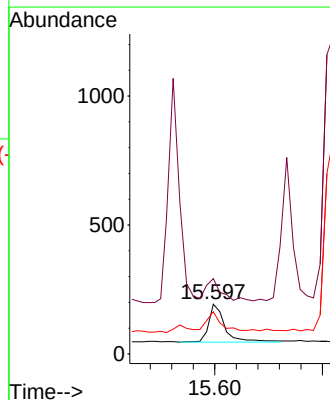
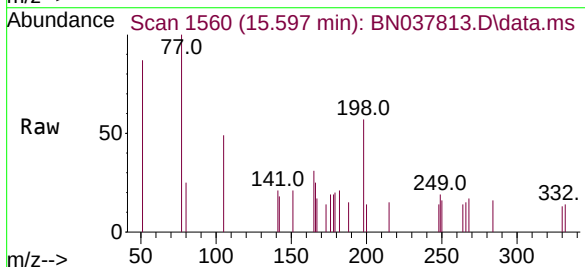
Tgt Ion:198 Resp: 309

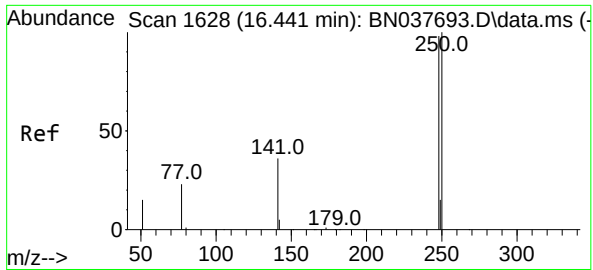
Ion Ratio Lower Upper

198 100

51 151.3 95.1 142.7#

105 85.0 53.8 80.6#

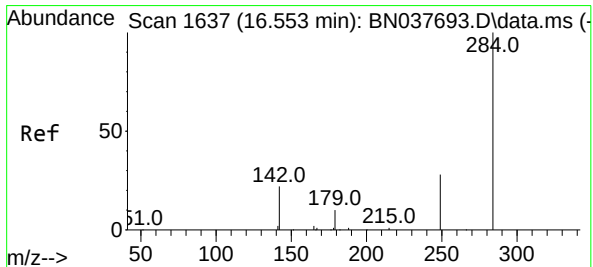
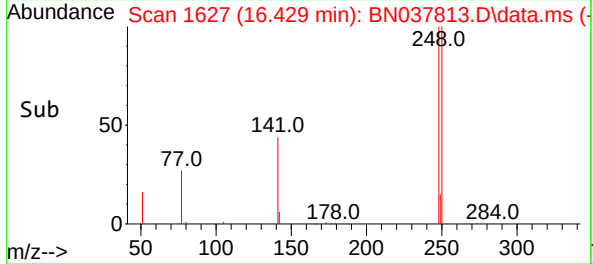
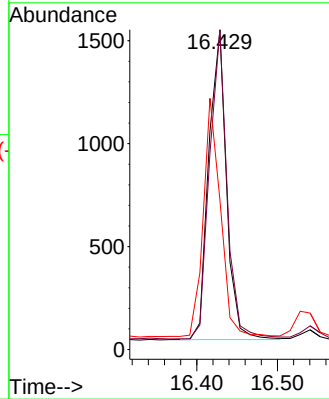
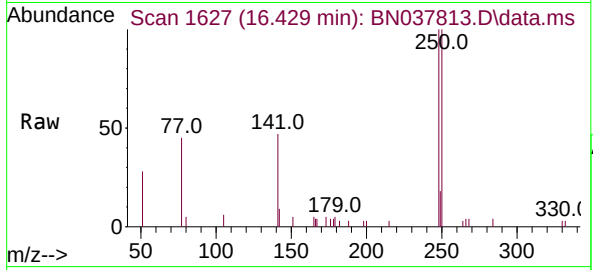




#21
4-Bromophenyl-phenylether
Concen: 0.365 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

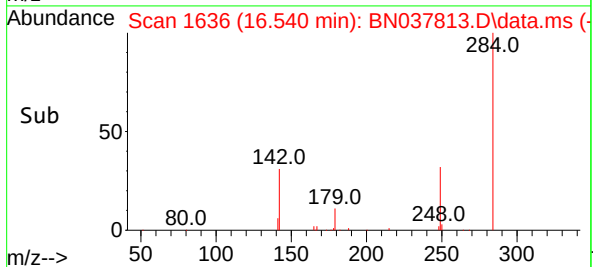
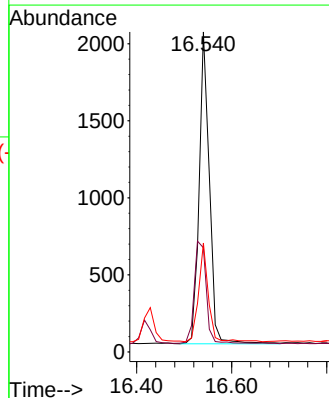
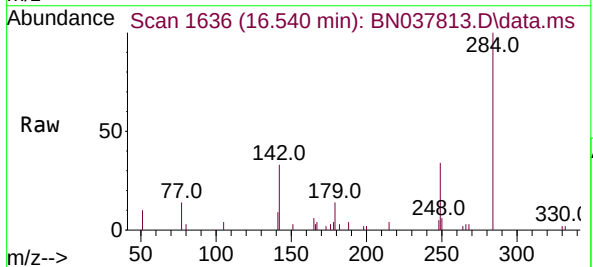
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

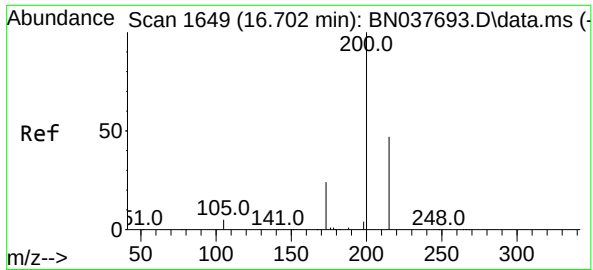
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.1	81.5	122.3
141	46.9	30.8	46.2



#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

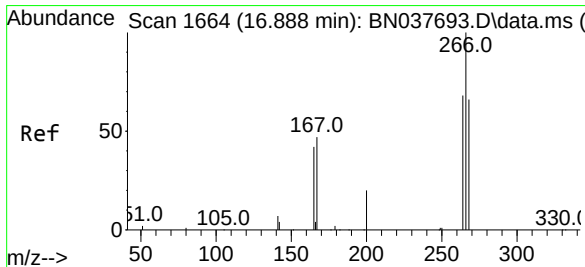
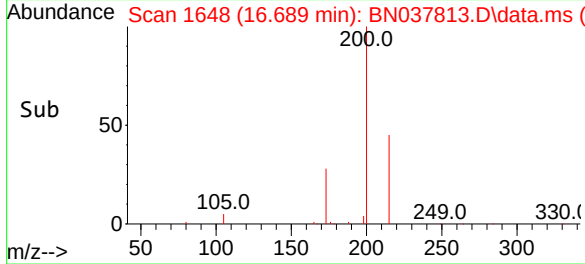
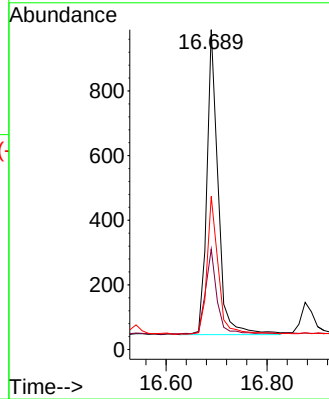
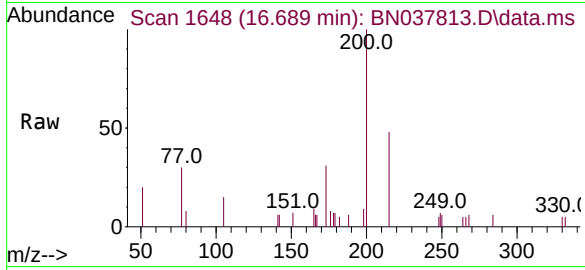




#23
Atrazine
Concen: 0.365 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

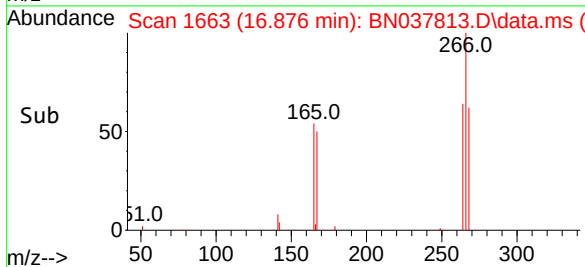
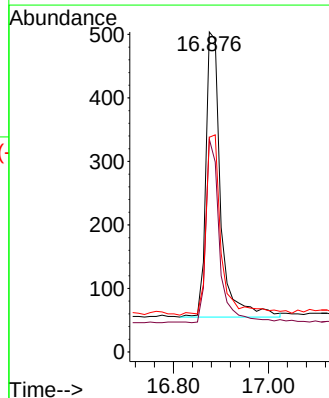
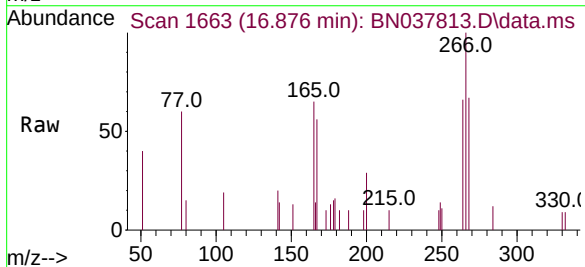
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

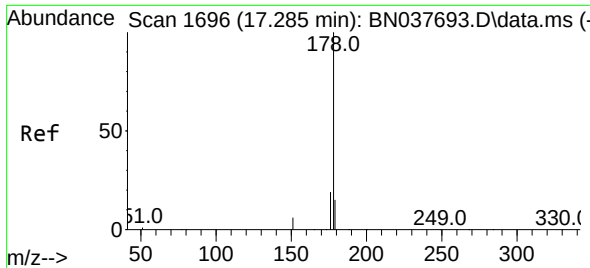
Tgt Ion:	200	Resp:	1460
Ion Ratio	Lower	Upper	
200	100		
173	31.4	21.4	32.2
215	47.9	39.2	58.8



#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:	266	Resp:	969
Ion Ratio	Lower	Upper	
266	100		
264	59.3	51.6	77.4
268	65.4	53.2	79.8

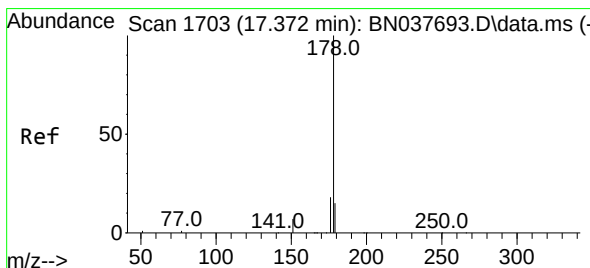
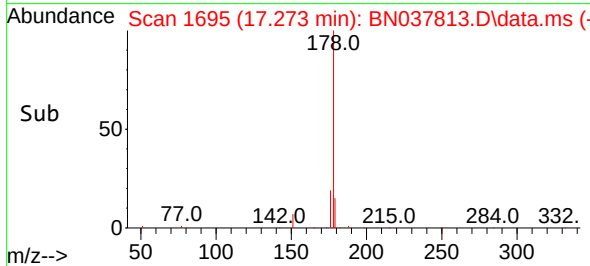
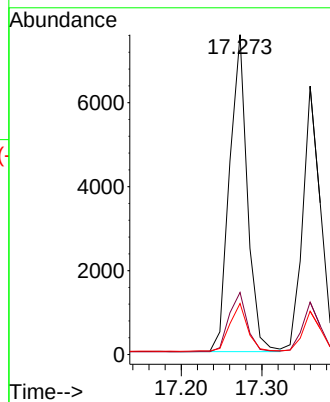
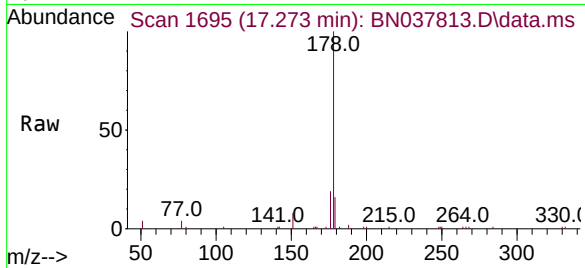




#25
Phenanthrene
Concen: 0.381 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

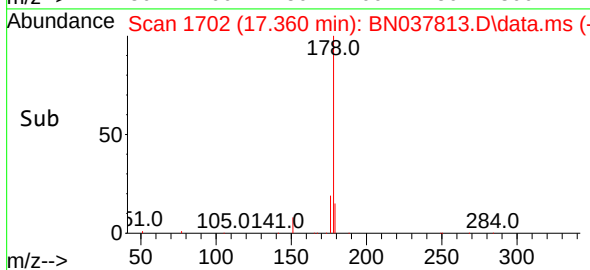
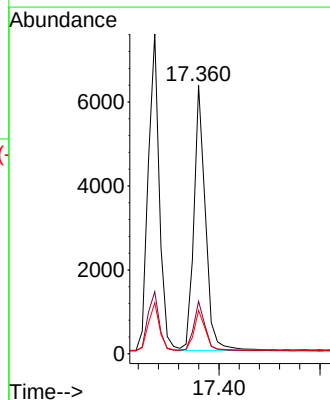
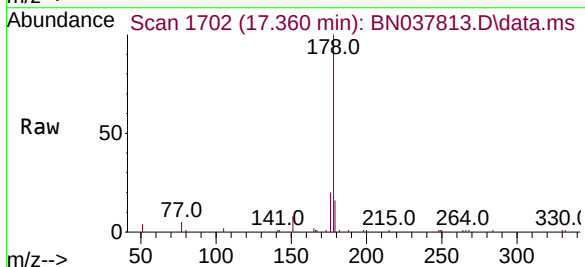
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

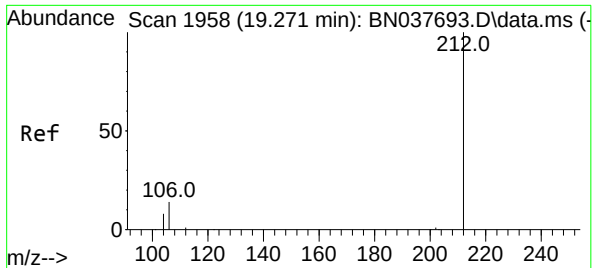
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.3	22.9
179	15.3	12.2	18.2



#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	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

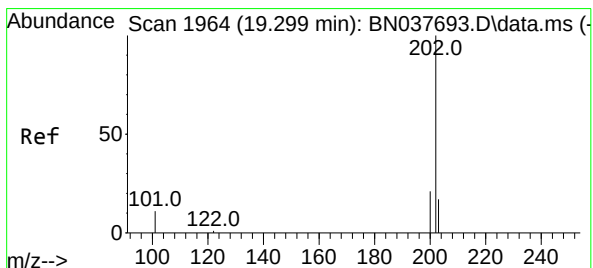
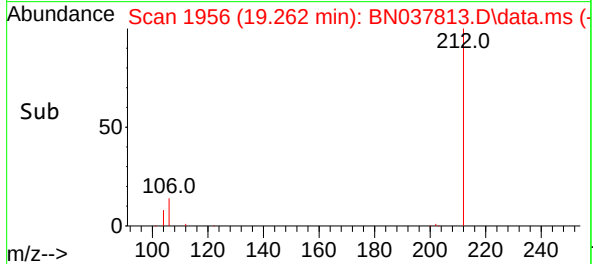
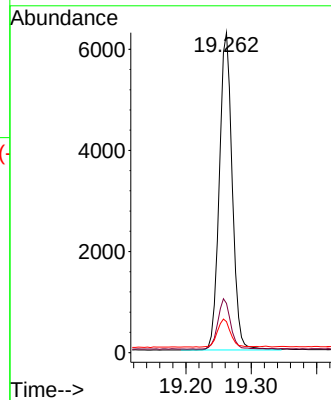
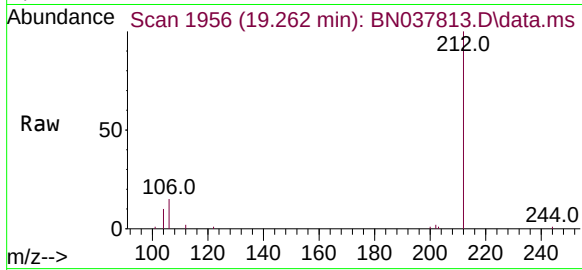
Instrument :

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

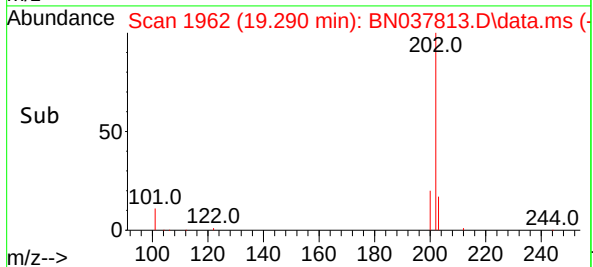
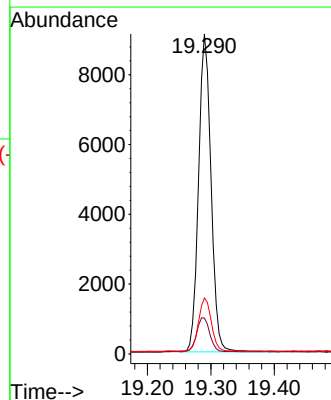
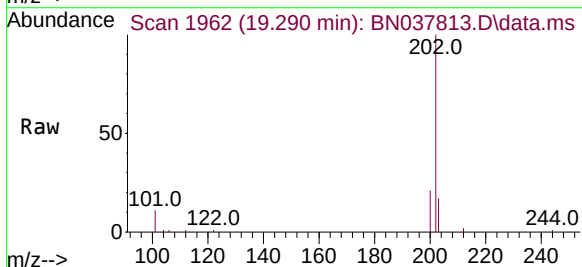
RT: 19.290 min Scan# 1962

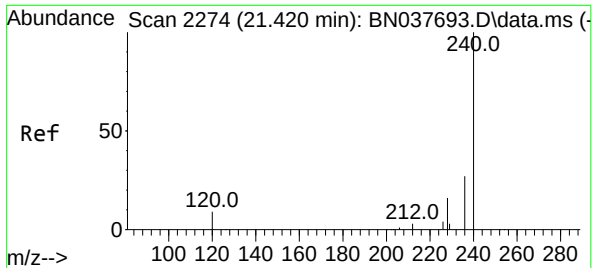
Delta R.T. -0.009 min

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

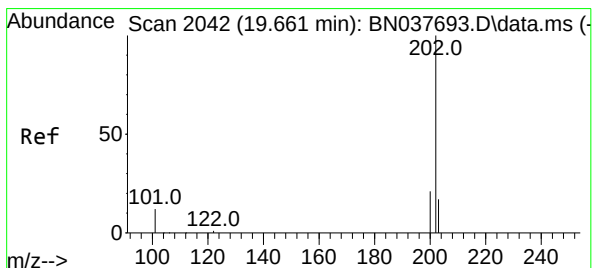
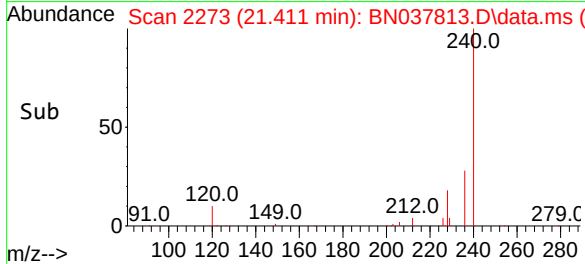
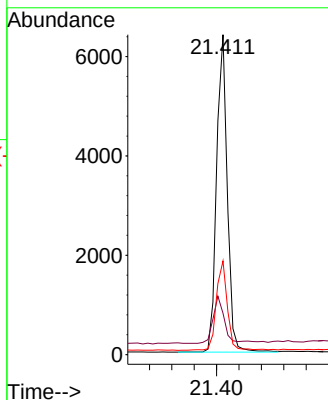
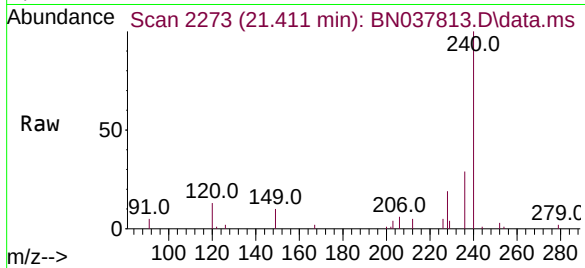




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

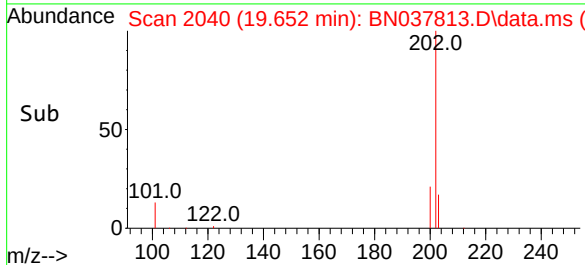
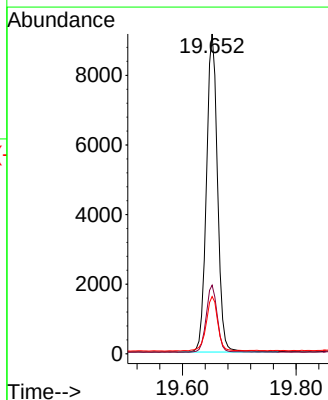
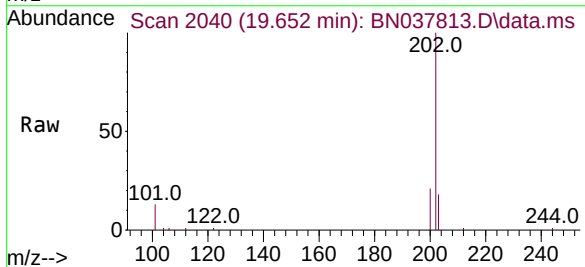
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

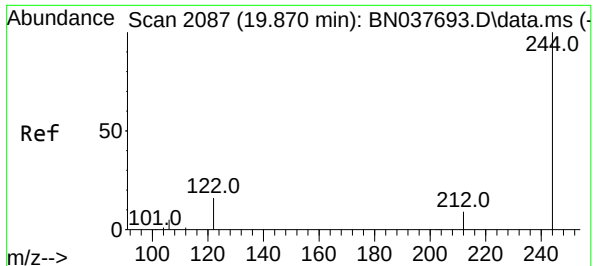
Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.9	9.2	13.8
236	29.3	22.6	33.8



#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

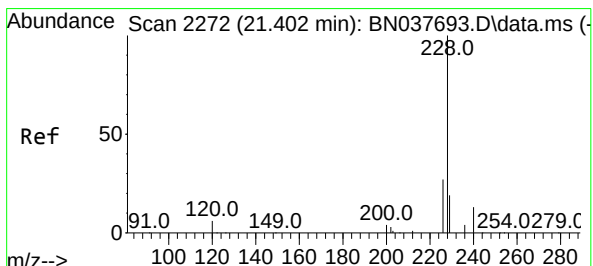
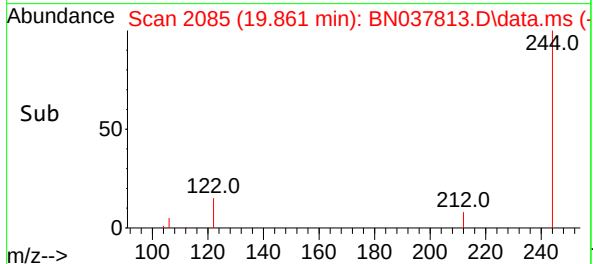
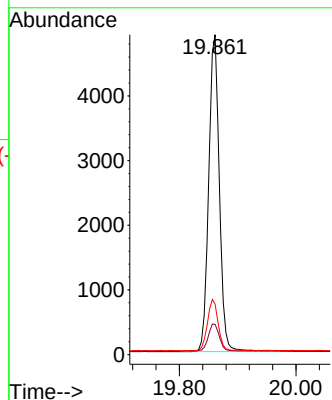
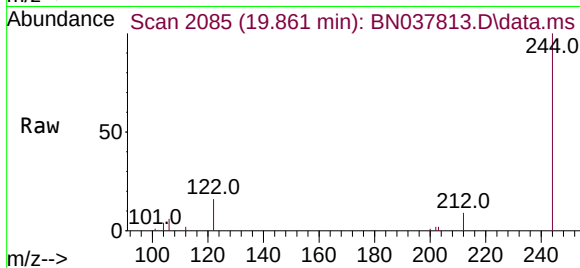




#31
Terphenyl-d14
Concen: 0.360 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

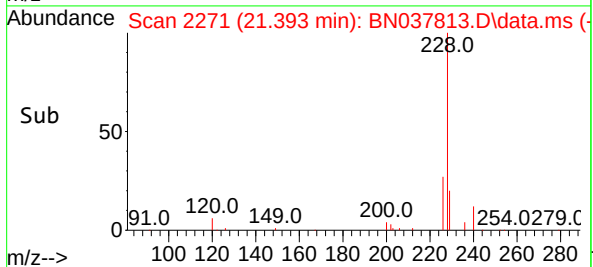
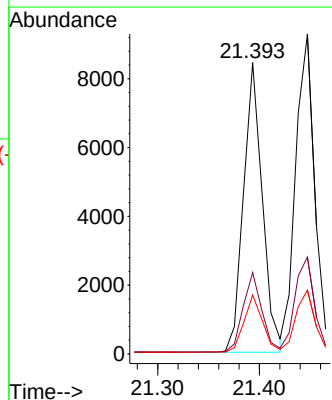
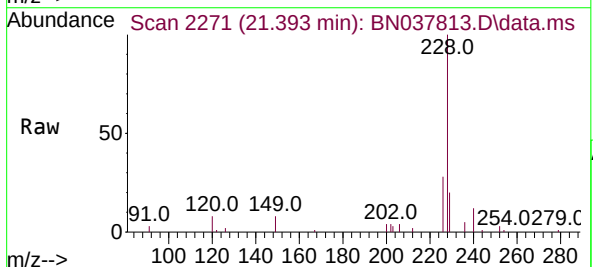
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

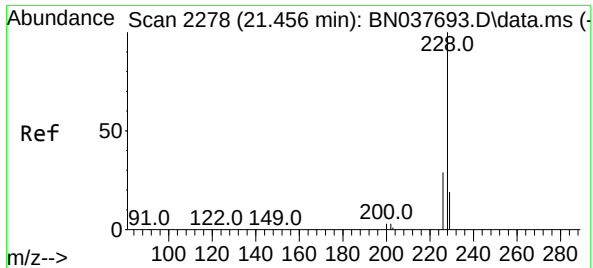
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.5	11.3
122	15.8	13.2	19.8



#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	Ratio	Lower	Upper
228	100		
226	27.9	22.2	33.2
229	20.2	15.8	23.6

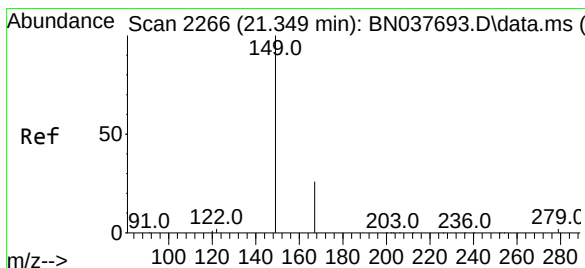
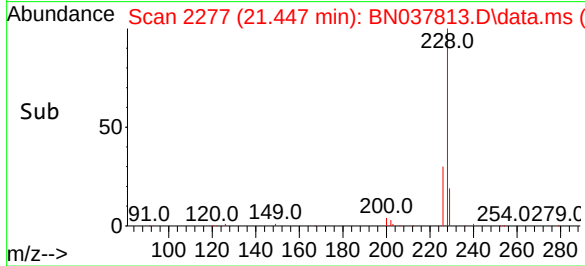
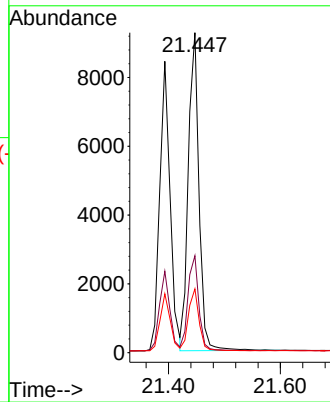
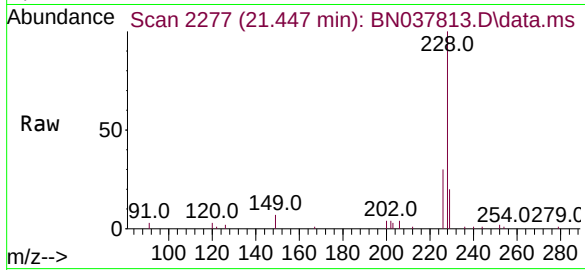




#33
Chrysene
Concen: 0.387 ng
RT: 21.447 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

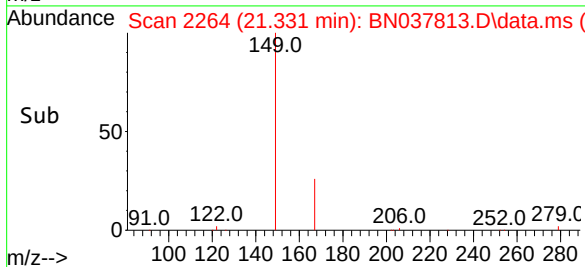
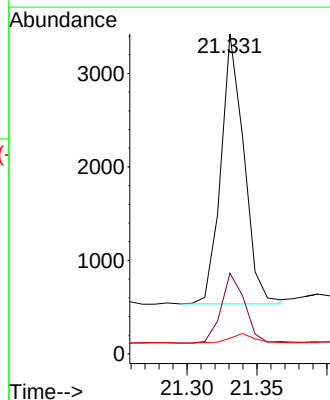
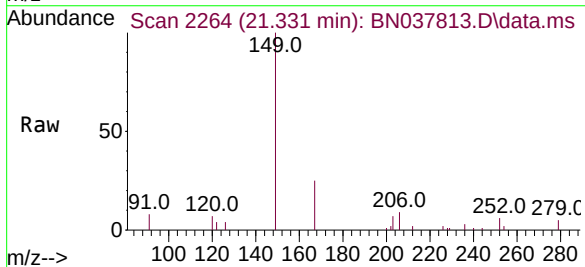
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

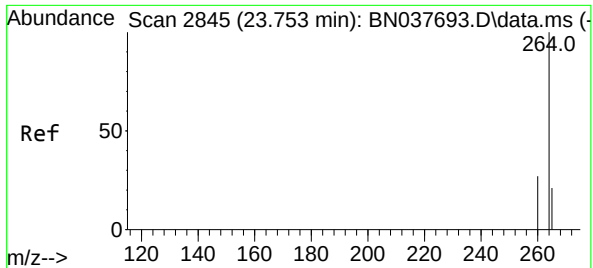
Tgt Ion:	228	Resp:	12256
Ion Ratio	Lower	Upper	
228	100		
226	30.3	23.5	35.3
229	19.9	15.9	23.9



#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

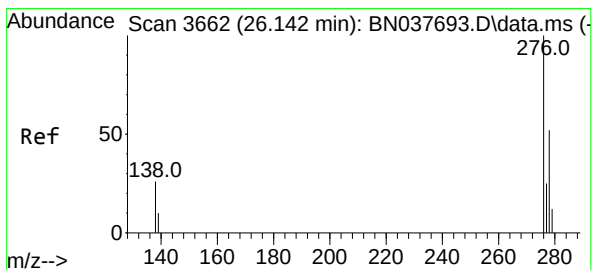
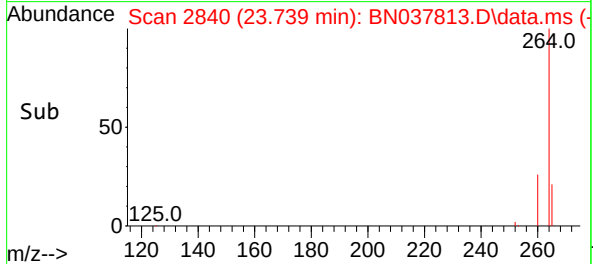
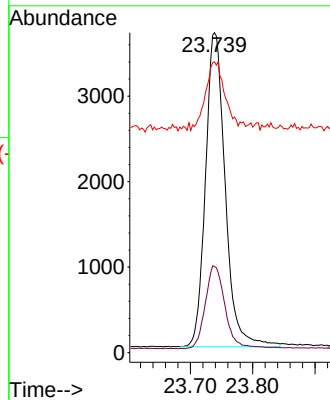
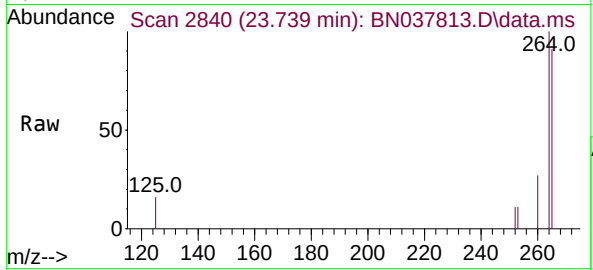




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.739 min Scan# 2845
Delta R.T. -0.015 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

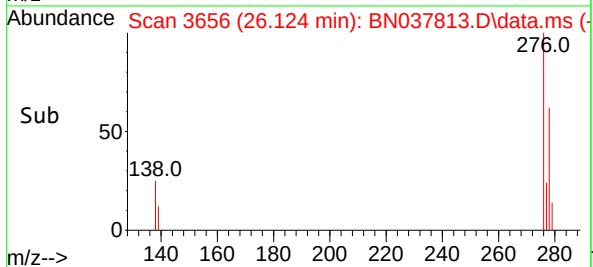
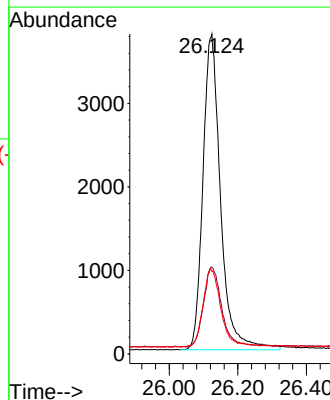
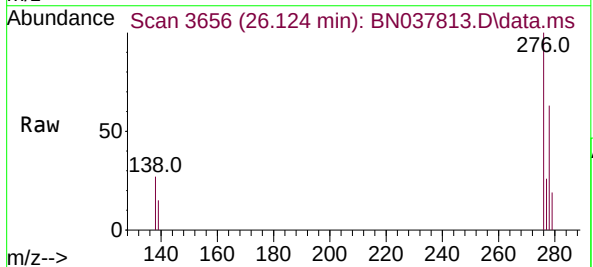
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

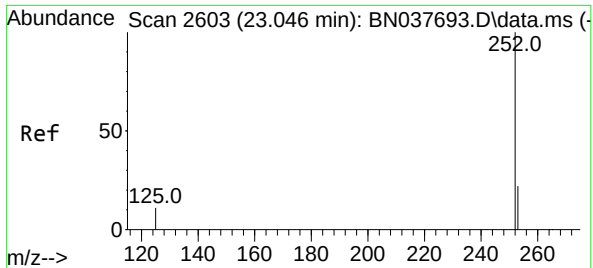
Tgt Ion:	264	Resp:	8084
Ion Ratio	Lower	Upper	
264	100		
260	26.9	21.8	32.8
265	90.9	39.4	59.2



#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	Resp:	13502
Ion Ratio	Lower	Upper	
276	100		
138	26.0	21.9	32.9
277	24.9	20.1	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

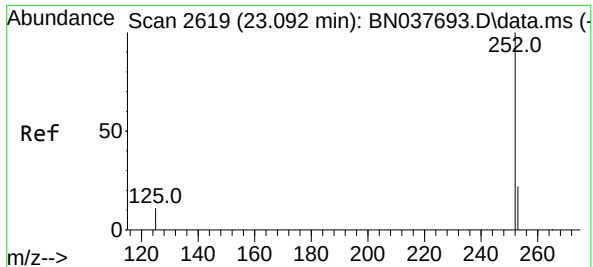
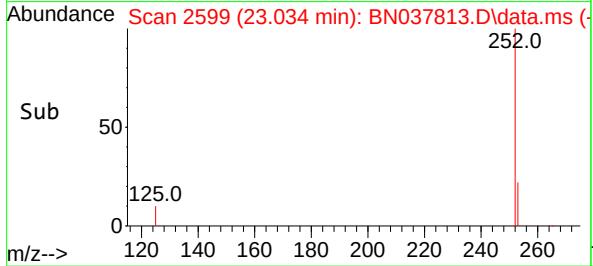
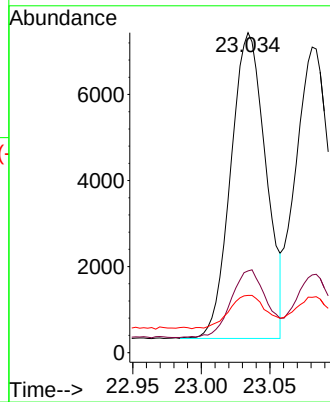
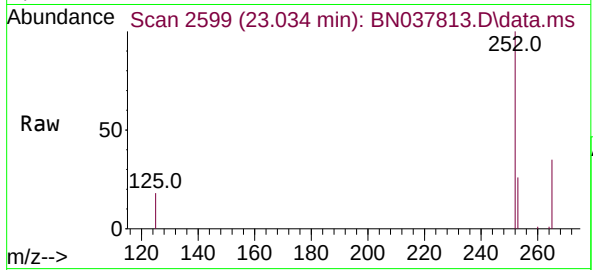
Instrument :

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

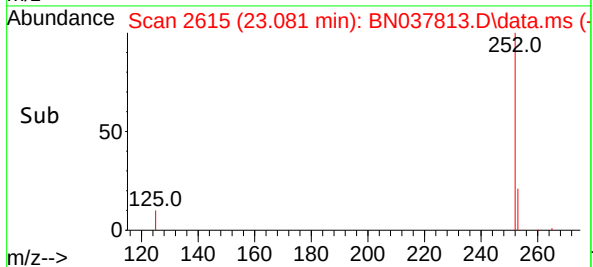
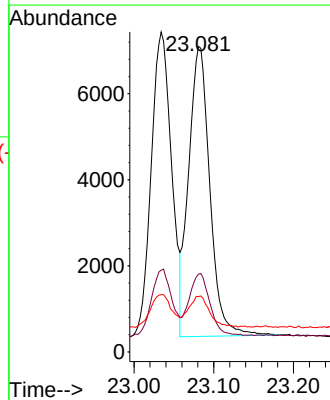
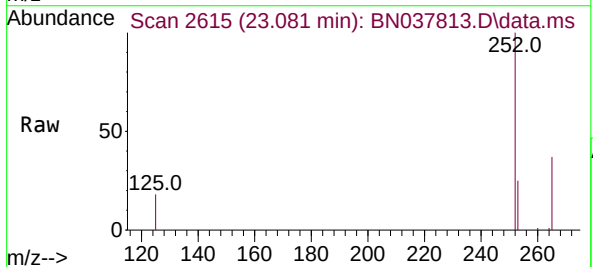
RT: 23.081 min Scan# 2615

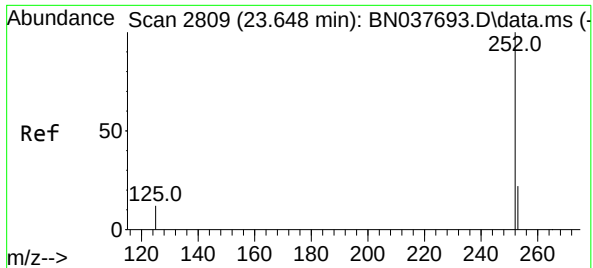
Delta R.T. -0.012 min

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

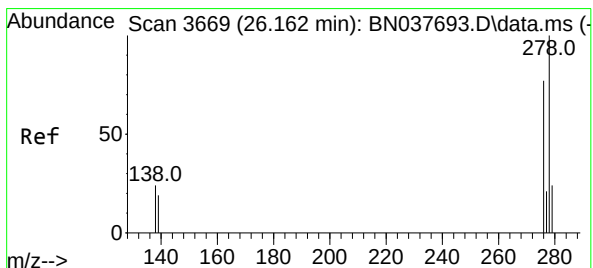
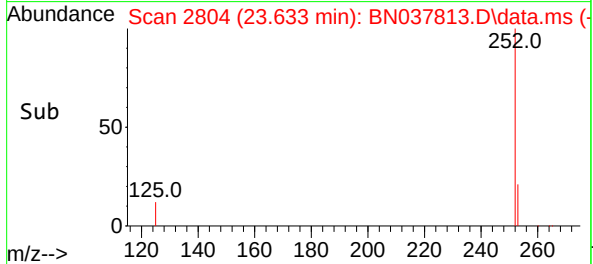
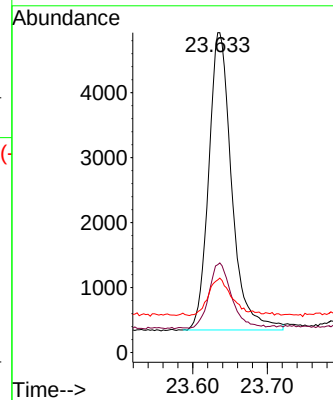
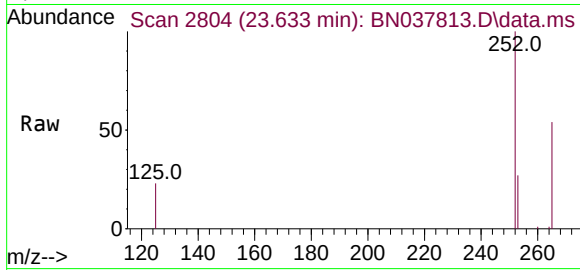
Tgt Ion:252 Resp: 9793

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

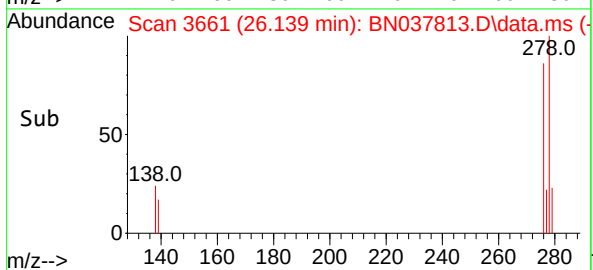
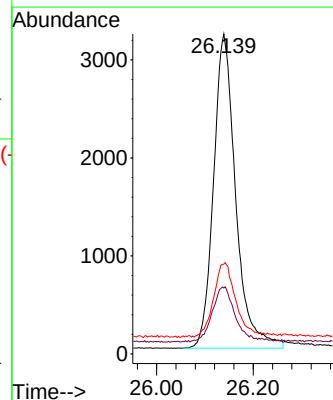
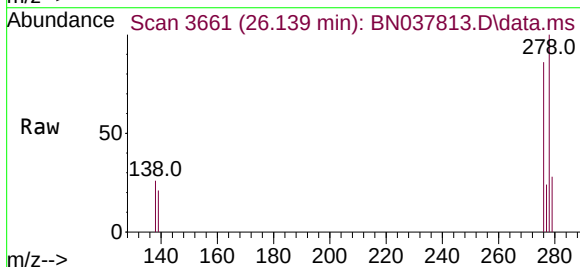
Tgt Ion:278 Resp: 10208

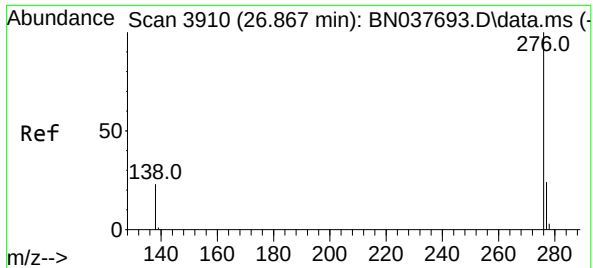
Ion Ratio Lower Upper

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

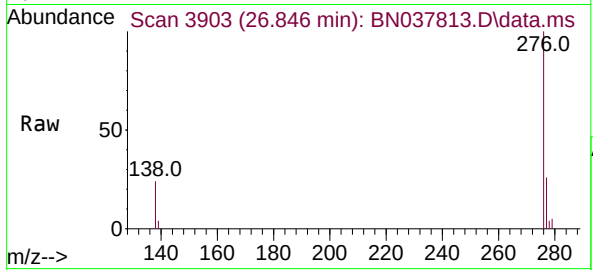
Acq: 19 Sep 2025 14:19

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



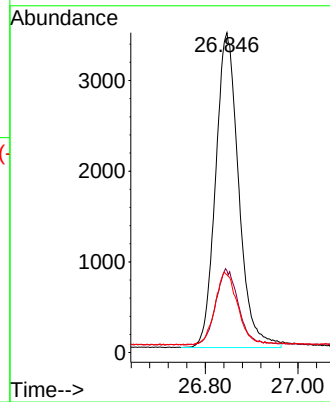
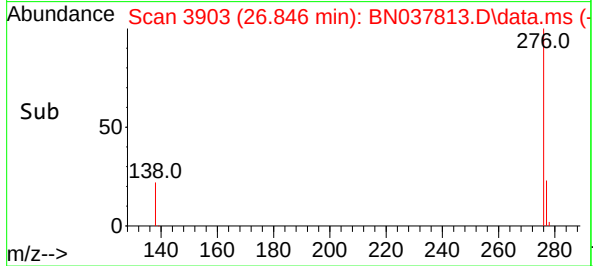
Tgt Ion:276 Resp: 12010

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: Alliance Contract: AECO15
 Lab Code: ACE SDG No.: Q3127
 Instrument ID: BNA_N Calibration Date/Time: 09/20/2025 00:39
 Lab File ID: BN037830.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	0.471		-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

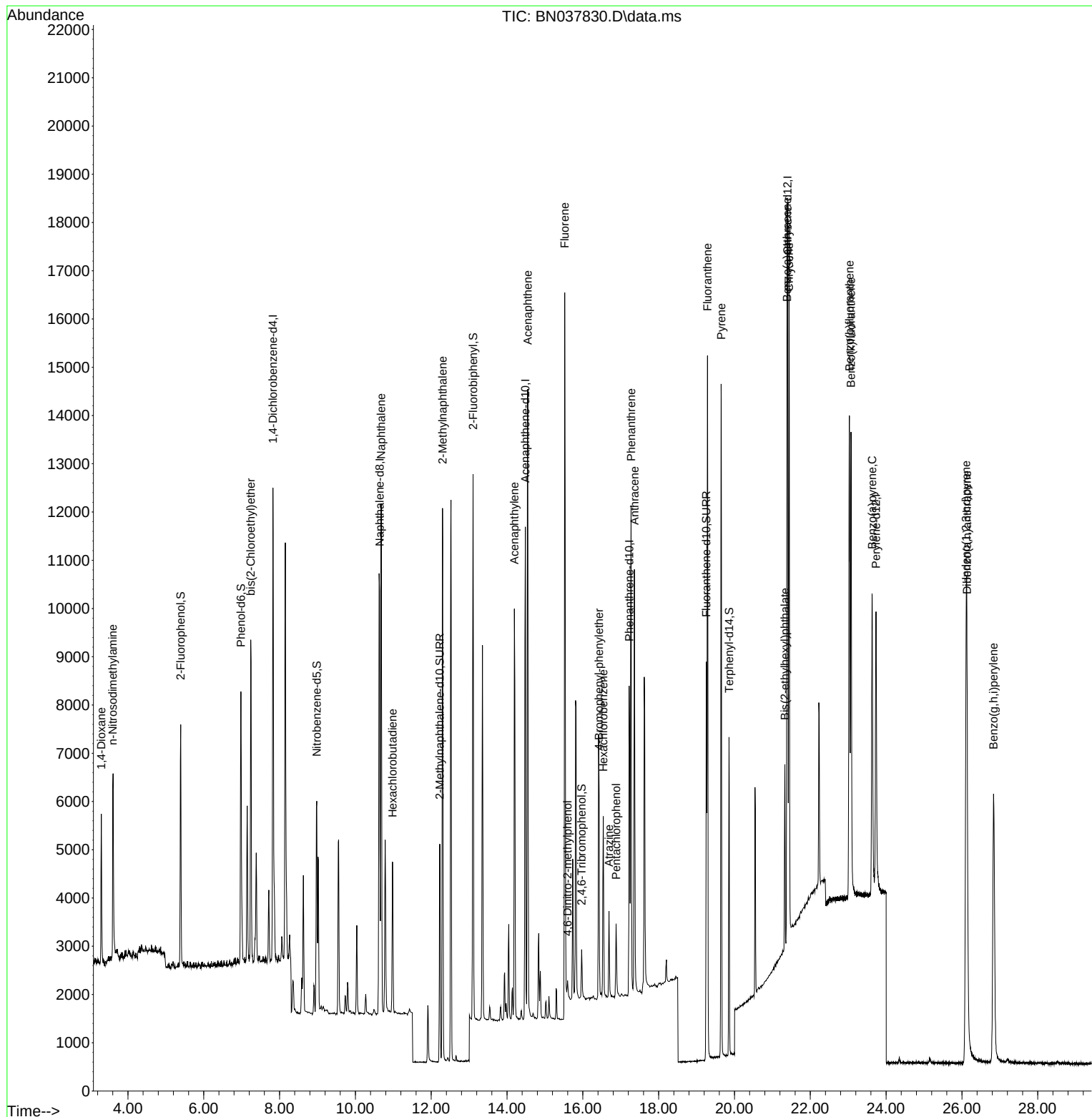
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.826	152	4763	0.400	ng	-0.01
7) Naphthalene-d8	10.637	136	12882	0.400	ng	#-0.01
13) Acenaphthene-d10	14.484	164	5757	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	9339	0.400	ng	-0.01
29) Chrysene-d12	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						
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

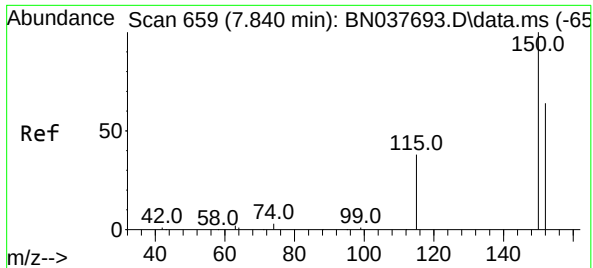
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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
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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

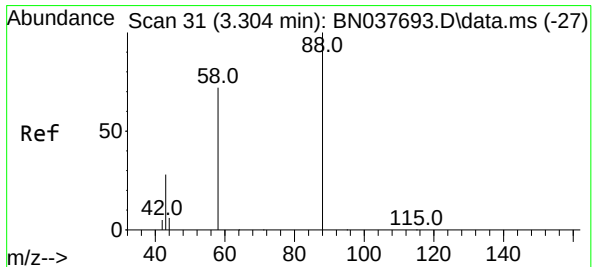
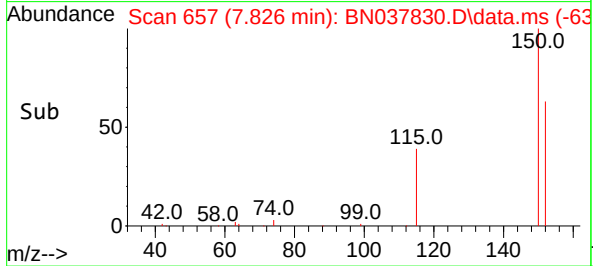
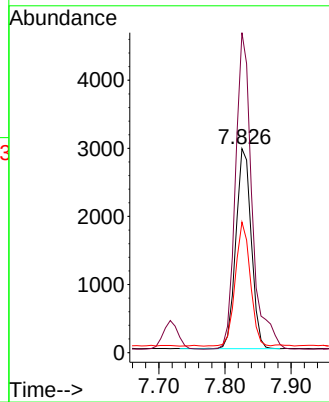
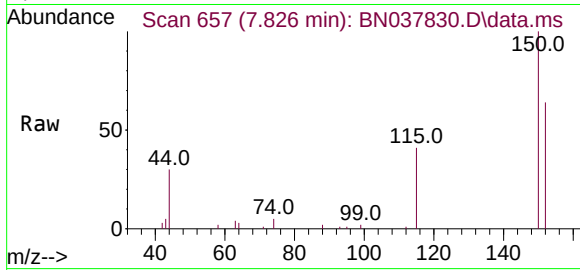




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 61
Delta R.T. -0.014 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

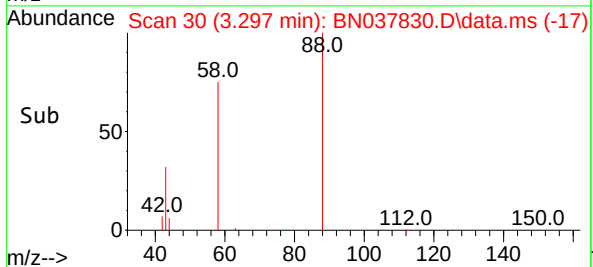
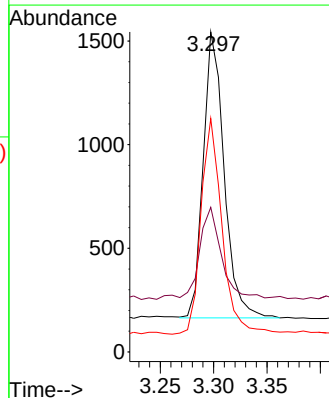
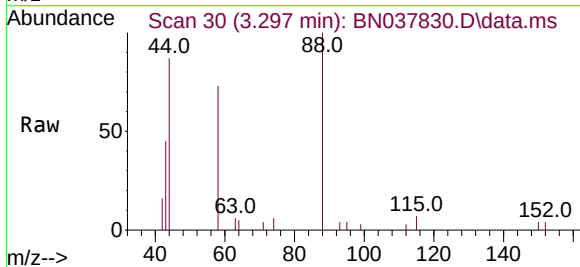
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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

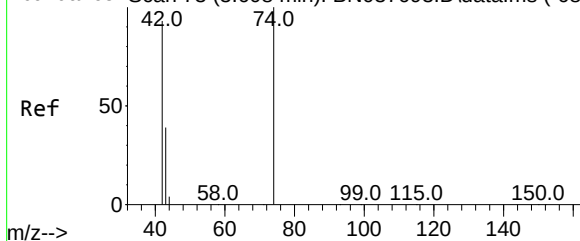


#2
1,4-Dioxane
Concen: 0.379 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

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



Abundance Scan 73 (3.608 min): BN037693.D\data.ms (-68)



#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

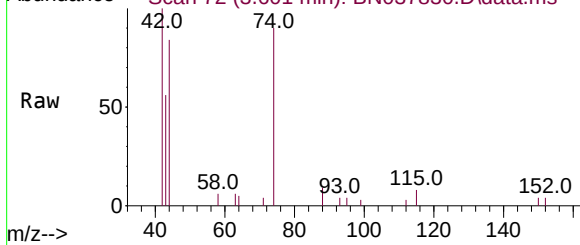
ClientSampleId :

SSTDCCC0.4EC

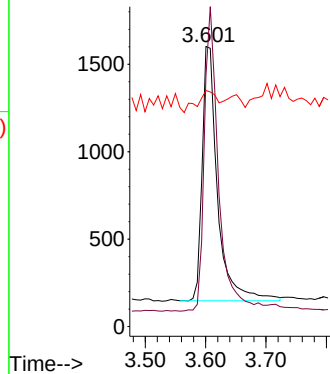
Tgt Ion: 42 Resp: 2585

Ion	Ratio	Lower	Upper
42	100		
74	110.6	86.0	129.0
44	10.4	8.4	12.6

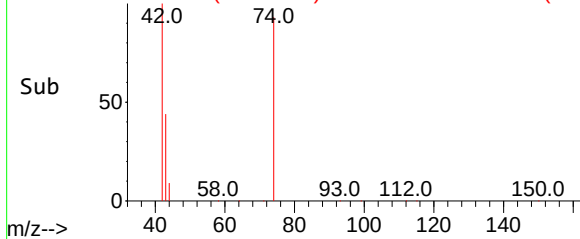
Abundance Scan 72 (3.601 min): BN037830.D\data.ms



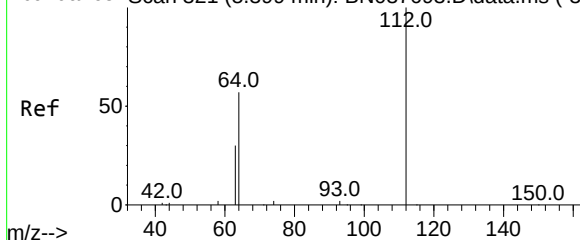
Abundance



Abundance Scan 72 (3.601 min): BN037830.D\data.ms (-52)



Abundance Scan 321 (5.399 min): BN037693.D\data.ms (-30)



#4

2-Fluorophenol

Concen: 0.361 ng

RT: 5.392 min Scan# 320

Delta R.T. -0.007 min

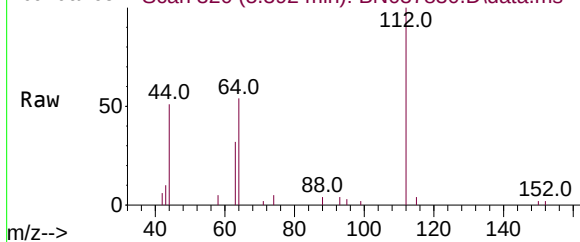
Lab File: BN037830.D

Acq: 20 Sep 2025 00:39

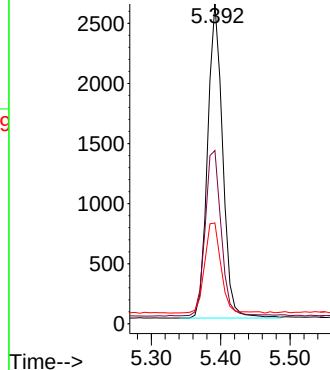
Tgt Ion: 112 Resp: 3952

Ion	Ratio	Lower	Upper
112	100		
64	55.7	44.9	67.3
63	30.9	24.7	37.1

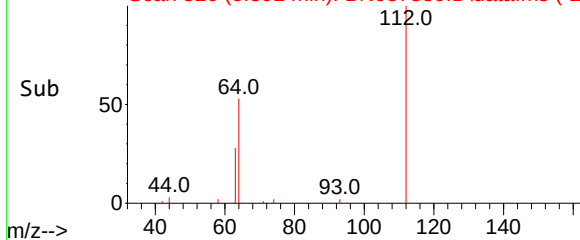
Abundance Scan 320 (5.392 min): BN037830.D\data.ms

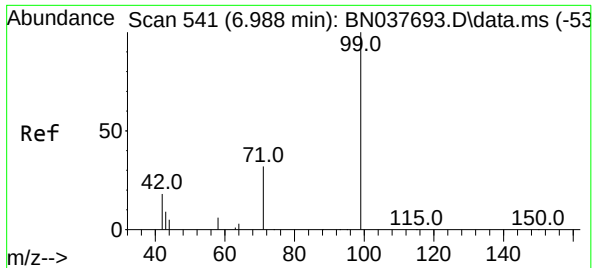


Abundance



Abundance Scan 320 (5.392 min): BN037830.D\data.ms (-29)

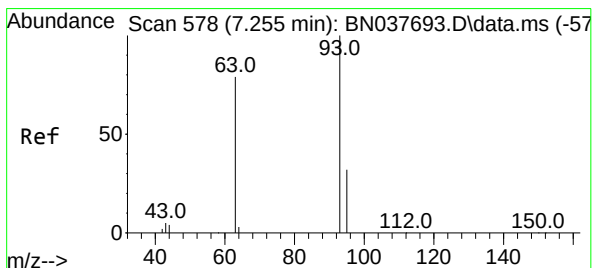
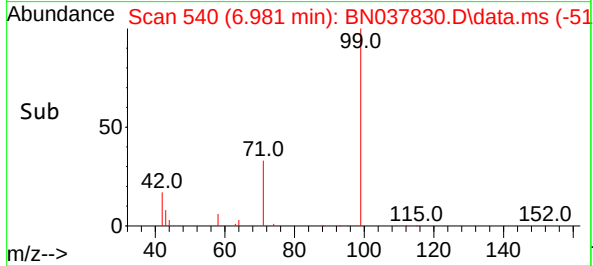
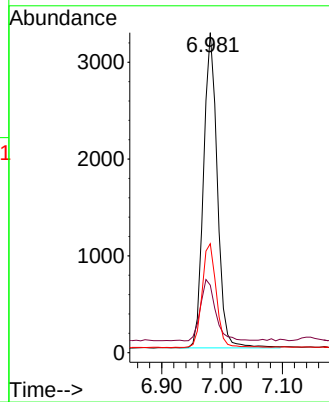
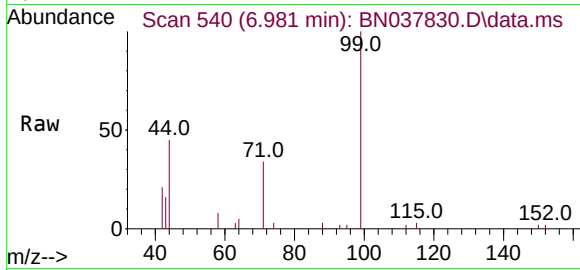




#5
Phenol-d6
Concen: 0.365 ng
RT: 6.981 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

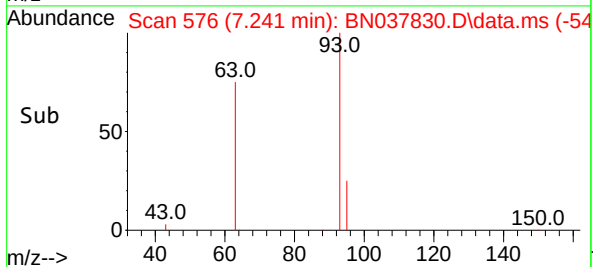
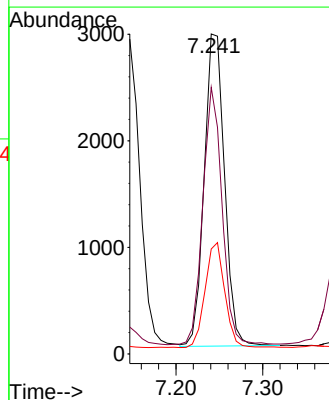
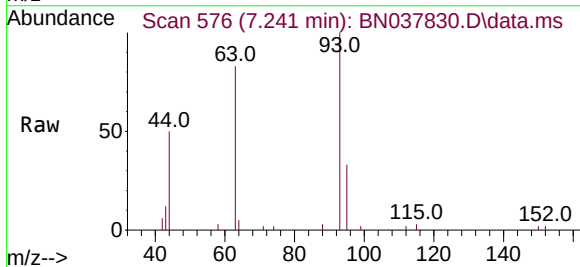
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

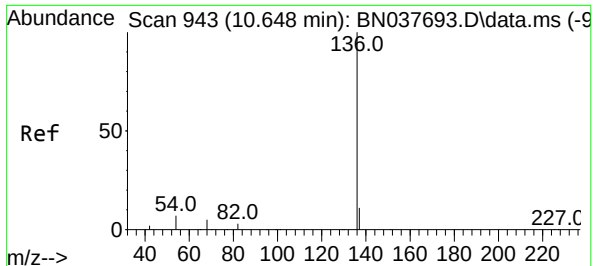
Tgt Ion: 99 Resp: 5181
Ion Ratio Lower Upper
99 100
42 21.1 16.6 24.8
71 34.1 26.7 40.1



#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

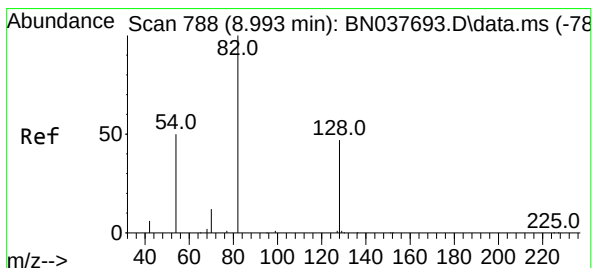
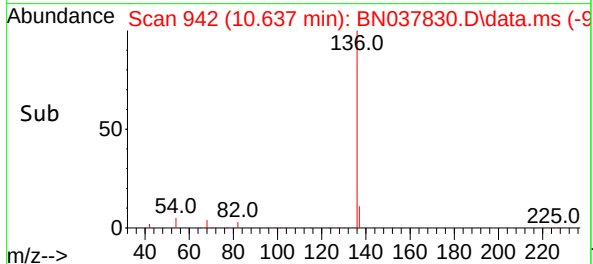
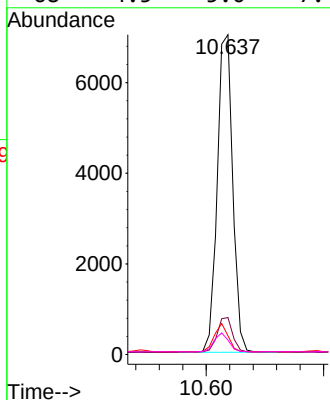
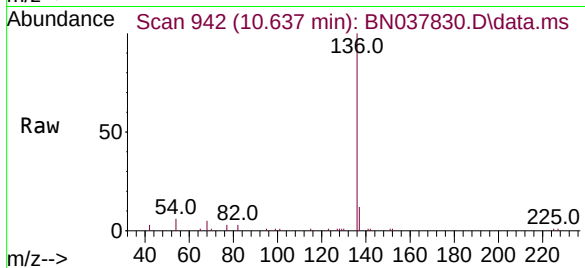




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

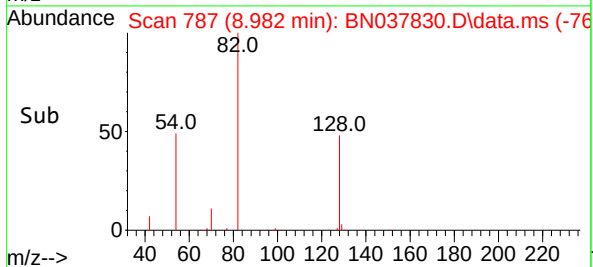
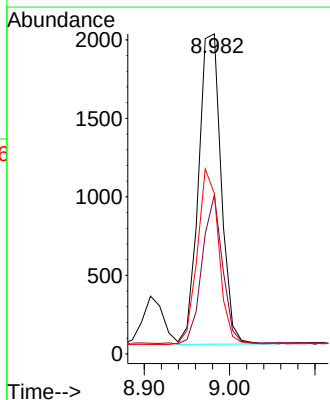
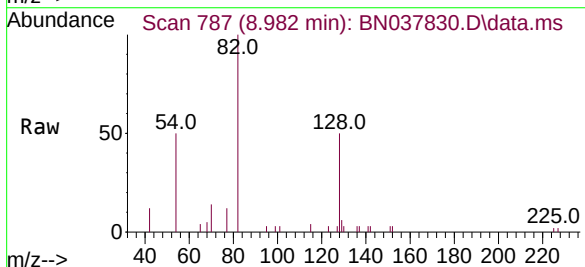
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

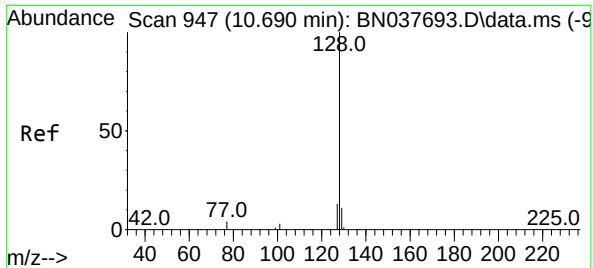
Tgt Ion:	136	Resp:	12882
Ion Ratio	Lower	Upper	
136	100		
137	11.6	9.1	13.7
54	5.9	6.3	9.5#
68	4.5	5.0	7.4#



#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

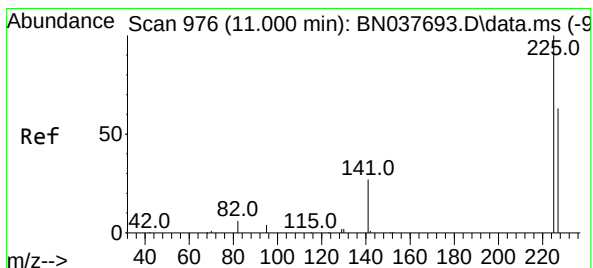
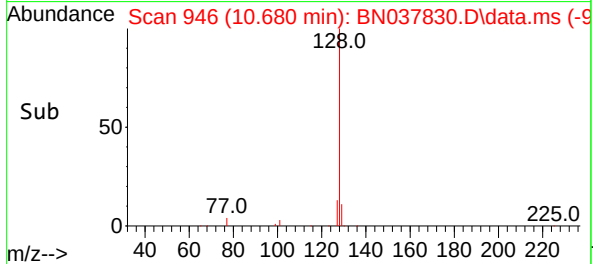
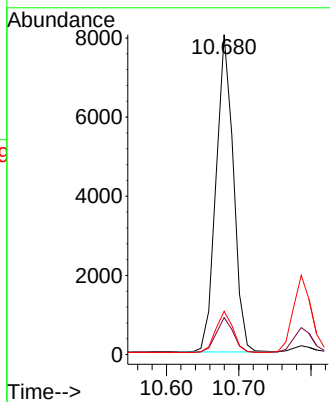
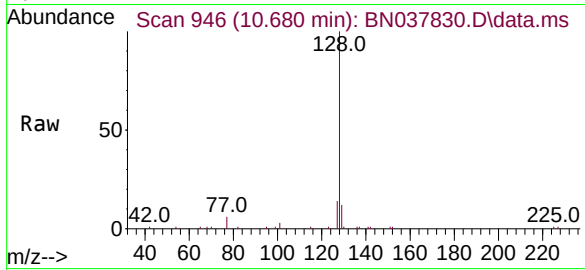




#9
Naphthalene
Concen: 0.381 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

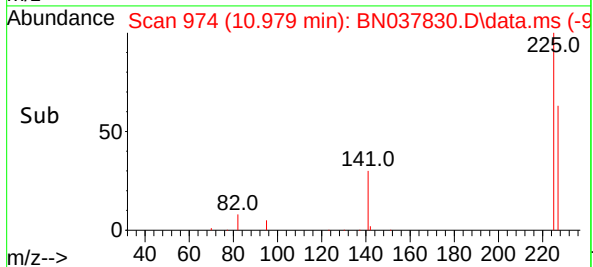
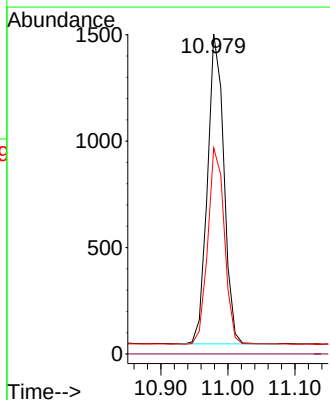
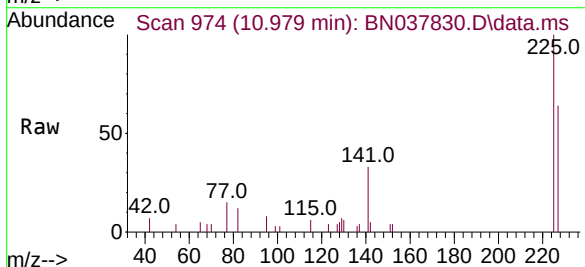
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

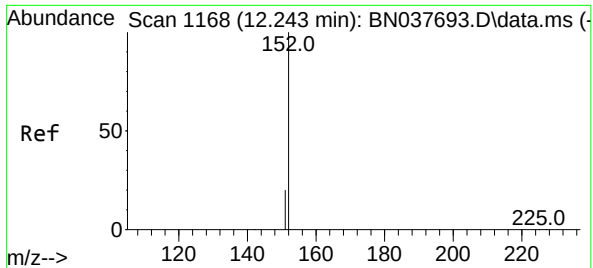
Tgt Ion:	128	Resp:	13409
Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.1	13.7
127	13.5	10.9	16.3



#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

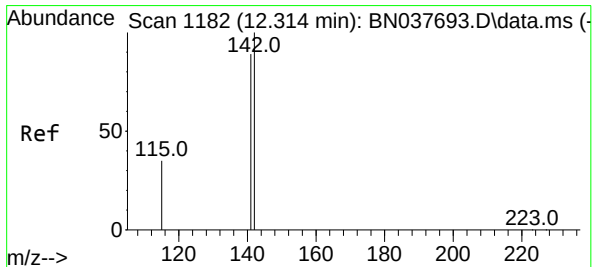
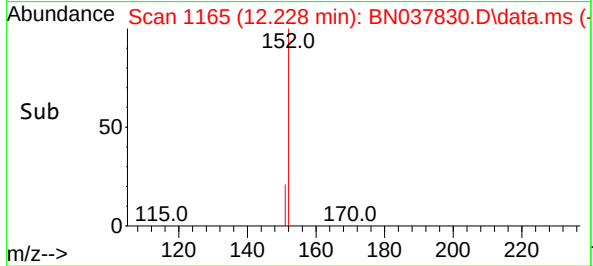
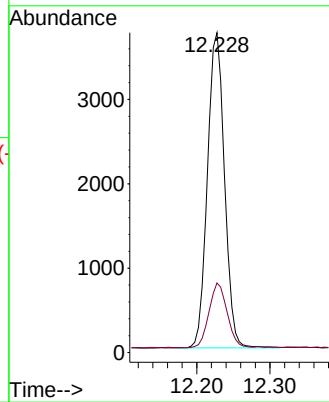
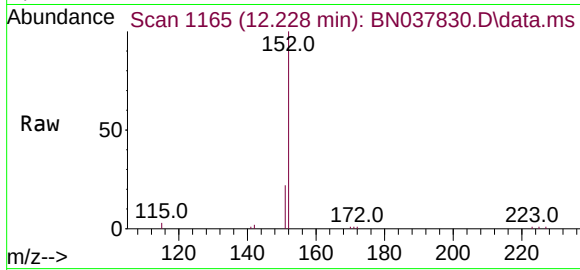




#11
2-Methylnaphthalene-d10
Concen: 0.355 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

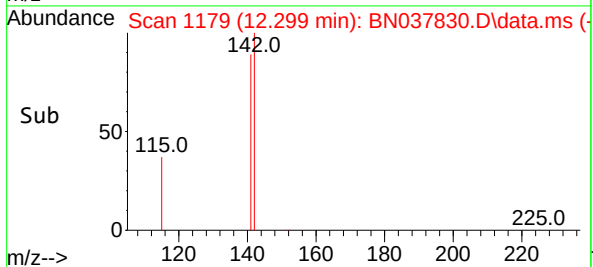
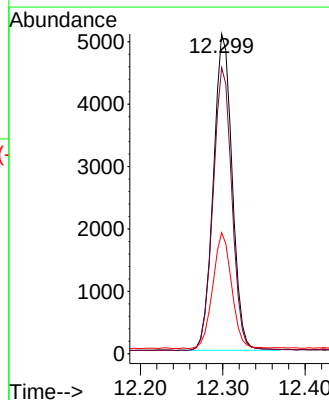
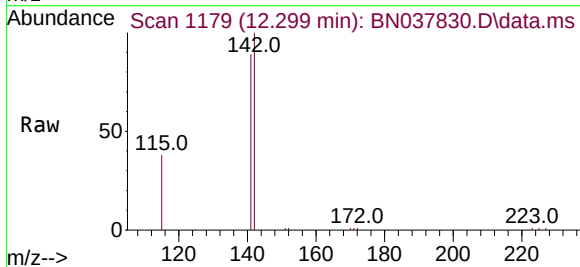
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

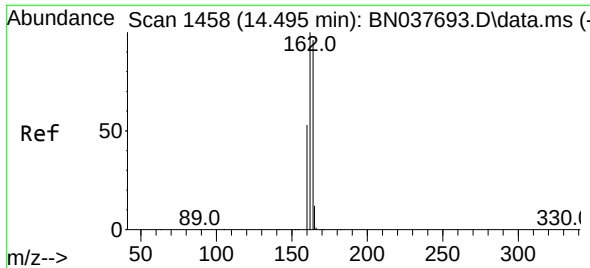
Tgt Ion:152 Resp: 6061
Ion Ratio Lower Upper
152 100
151 21.8 17.0 25.6



#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

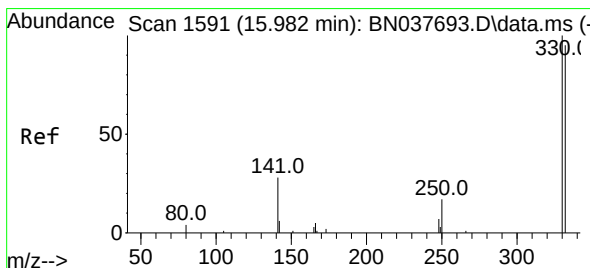
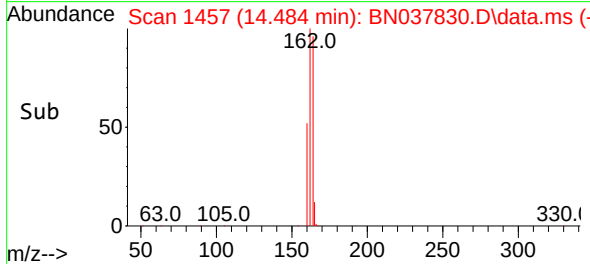
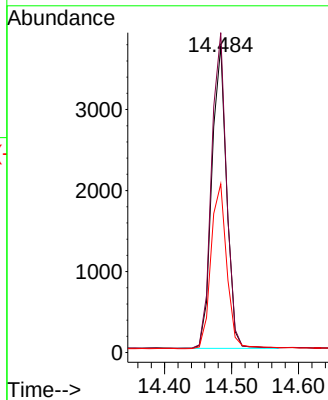
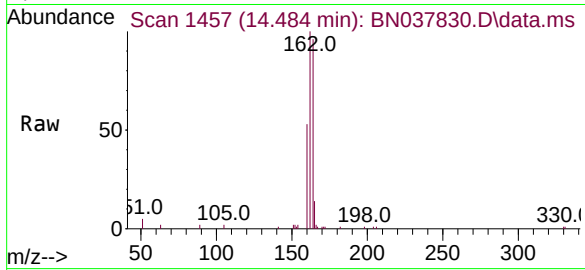




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

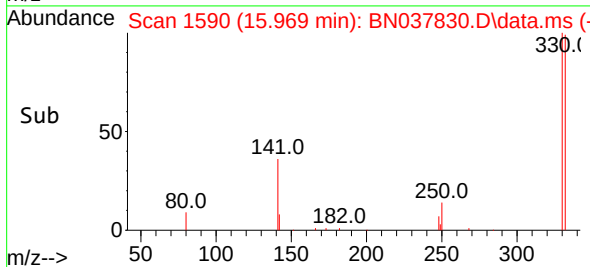
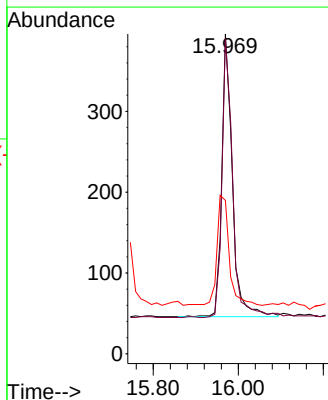
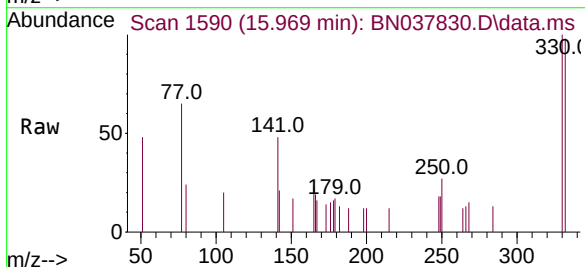
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

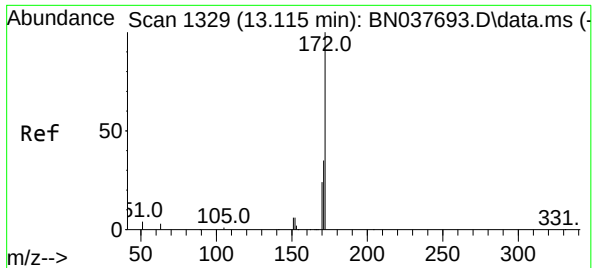
Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.3	83.1	124.7
160	55.0	44.3	66.5



#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

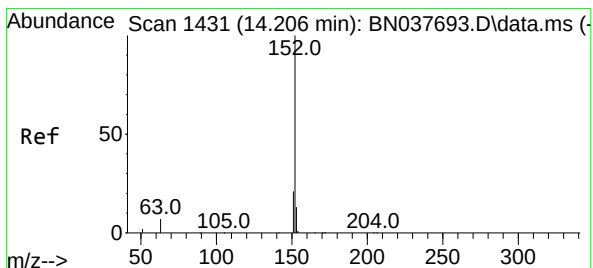
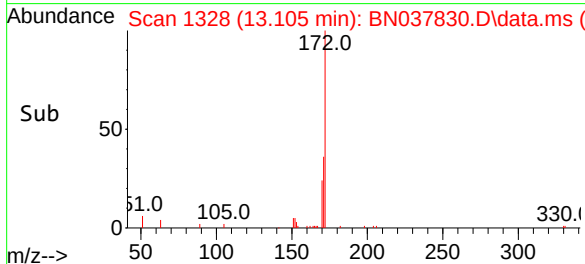
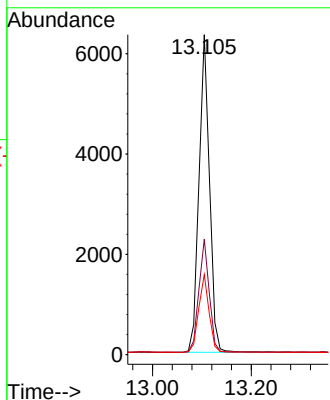
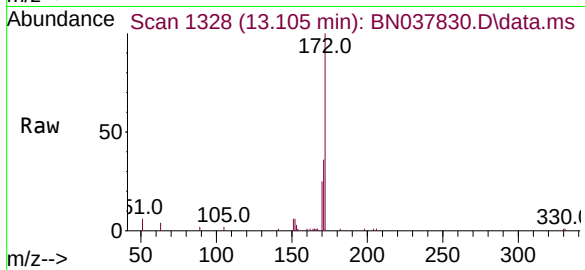




#15
2-Fluorobiphenyl
Concen: 0.388 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

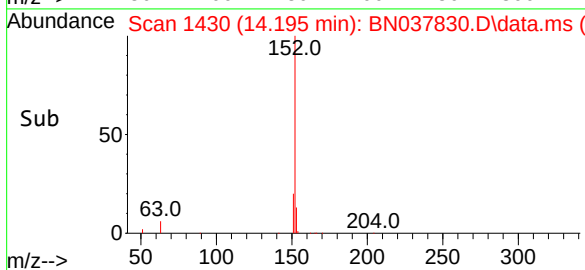
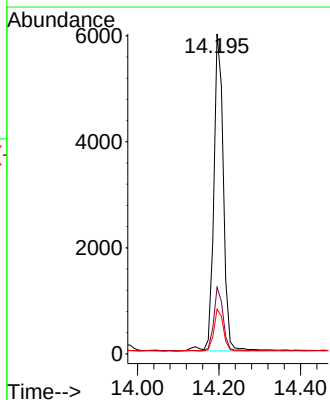
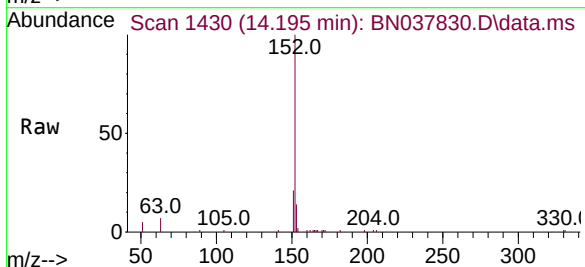
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

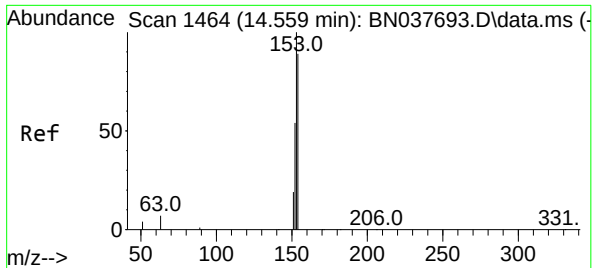
Tgt Ion:	172	Resp:	9332
Ion Ratio	Lower	Upper	
172	100		
171	36.1	28.6	43.0
170	25.0	19.8	29.8



#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

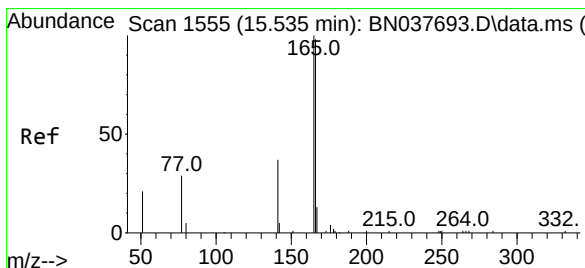
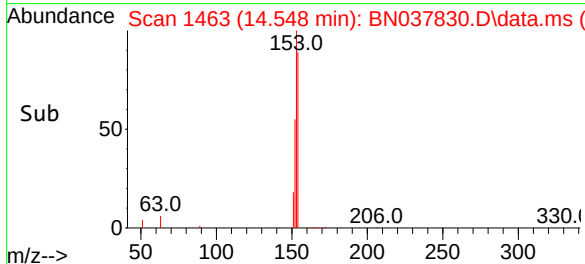
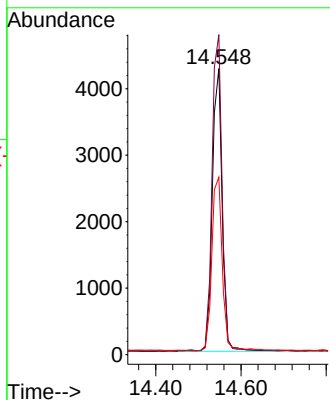
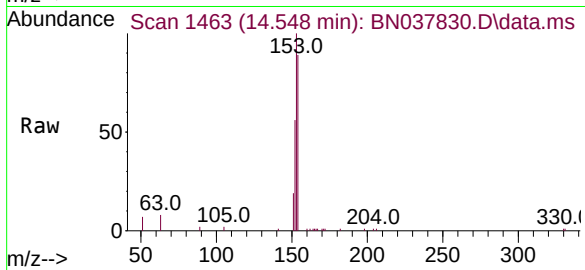




#17
Acenaphthene
Concen: 0.382 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

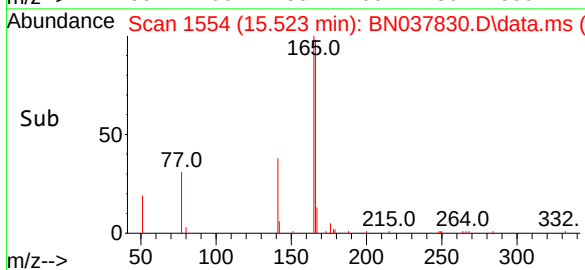
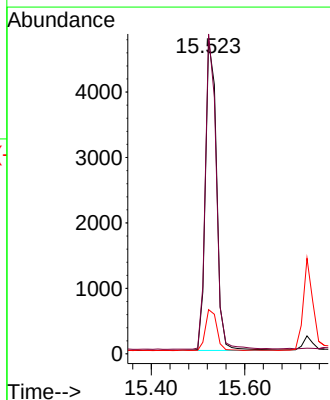
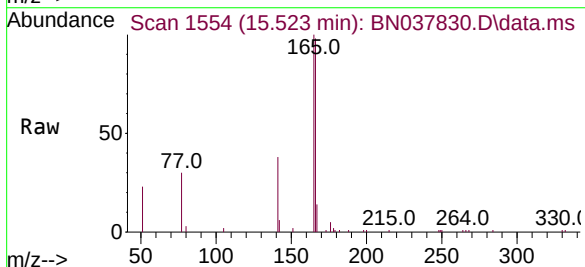
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

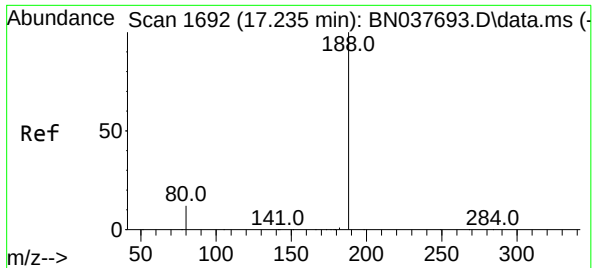
Tgt Ion:154 Resp: 6828
Ion Ratio Lower Upper
154 100
153 113.4 89.8 134.8
152 65.3 50.2 75.2



#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

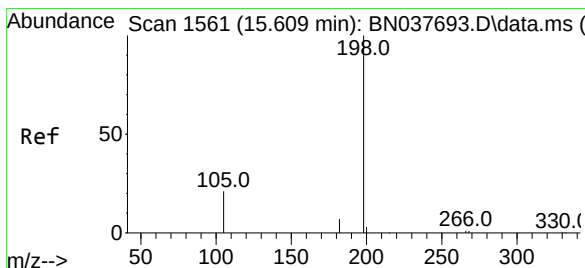
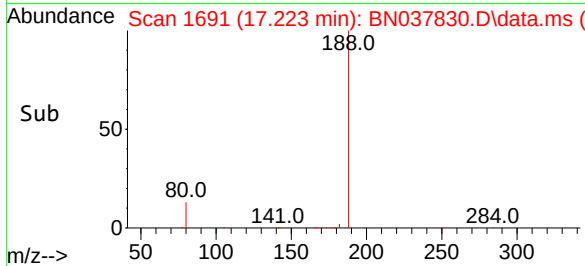
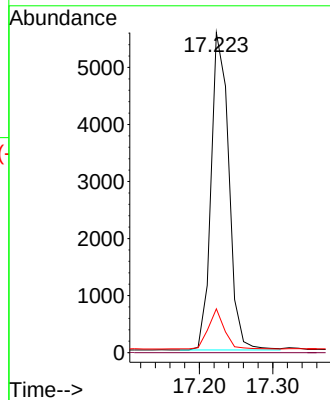
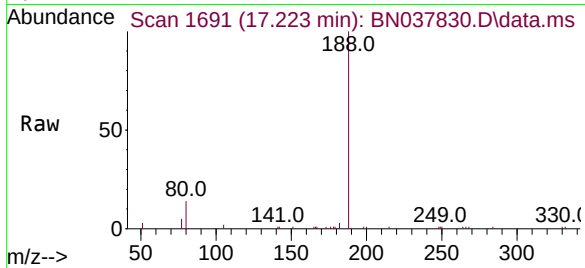
Tgt Ion:188 Resp: 9339

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

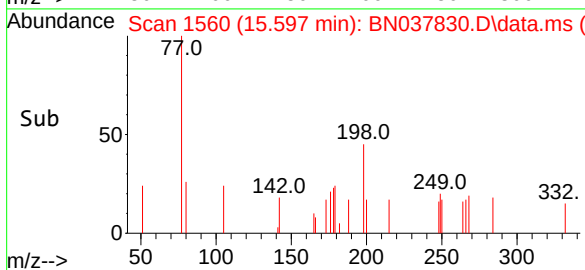
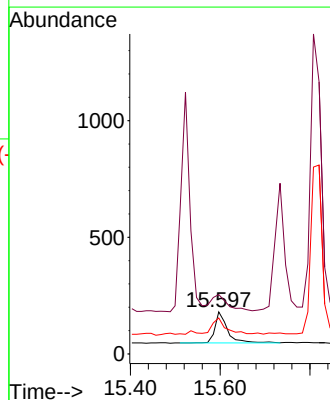
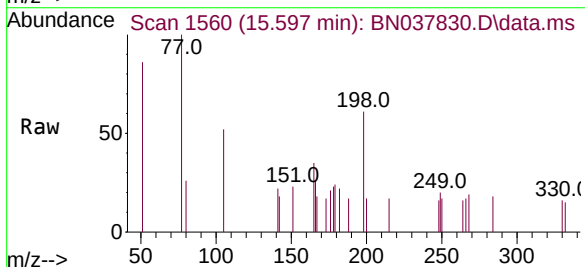
Tgt Ion:198 Resp: 257

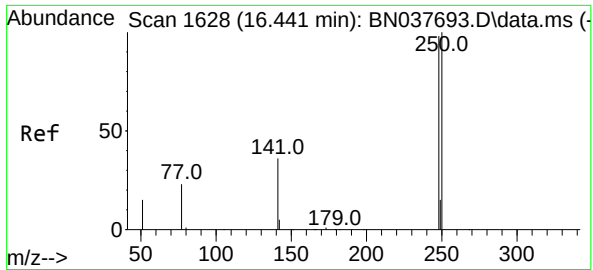
Ion Ratio Lower Upper

198 100

51 141.1 95.1 142.7

105 85.6 53.8 80.6#

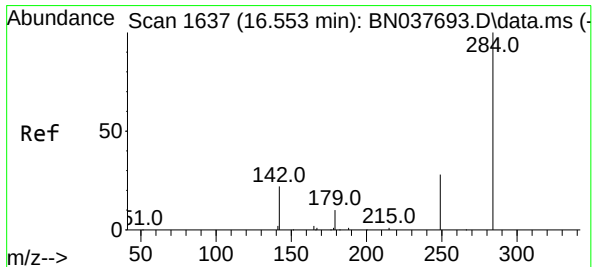
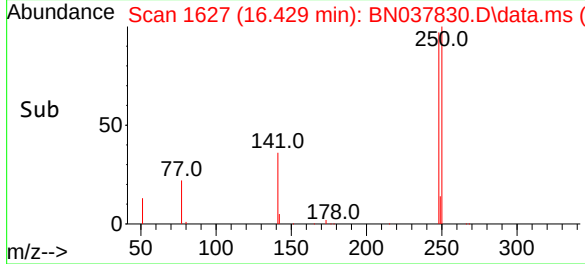
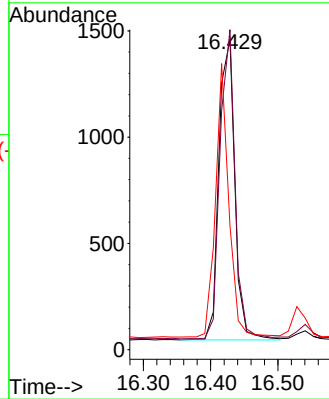
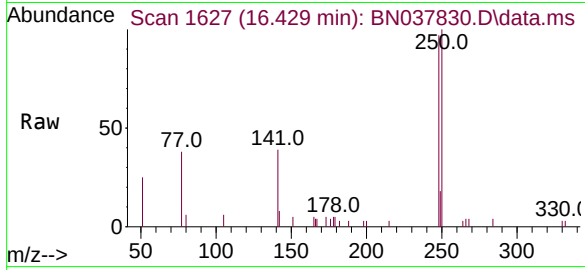




#21
4-Bromophenyl-phenylether
Concen: 0.383 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

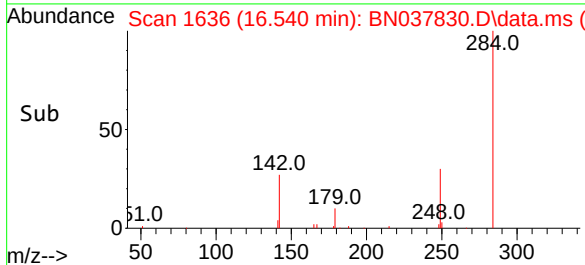
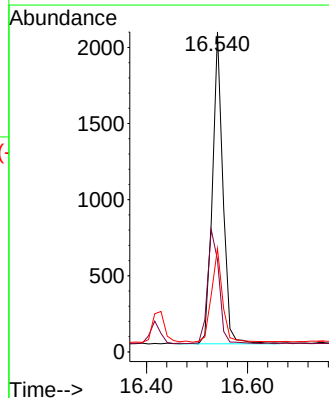
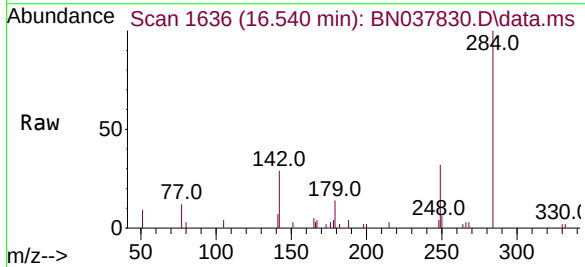
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

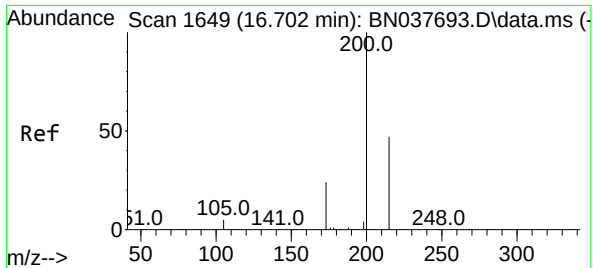
Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.2	81.5	122.3
141	40.0	30.8	46.2



#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

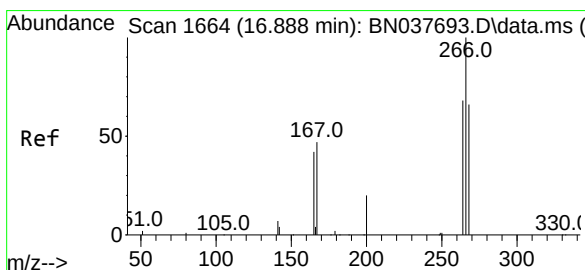
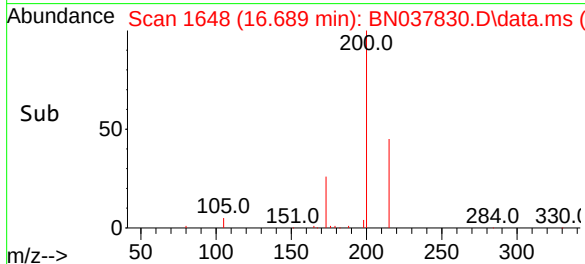
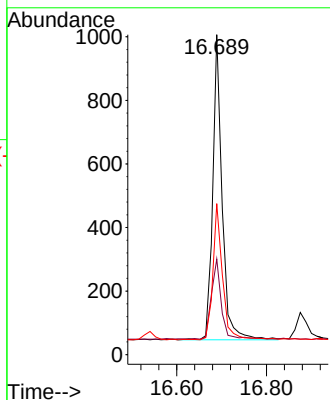
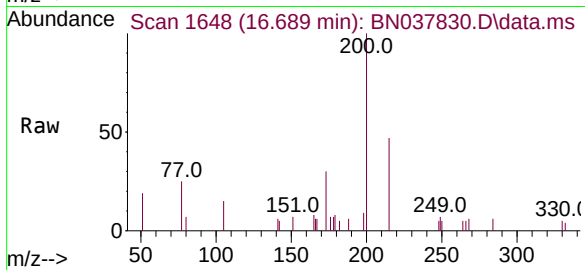




#23
Atrazine
Concen: 0.361 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

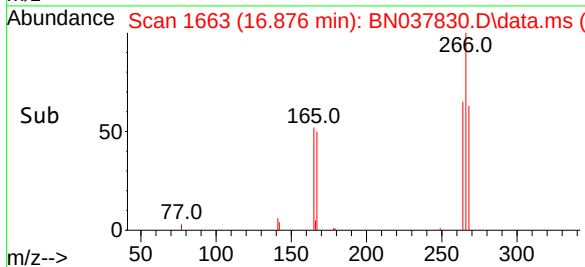
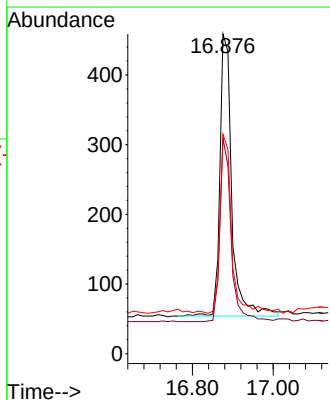
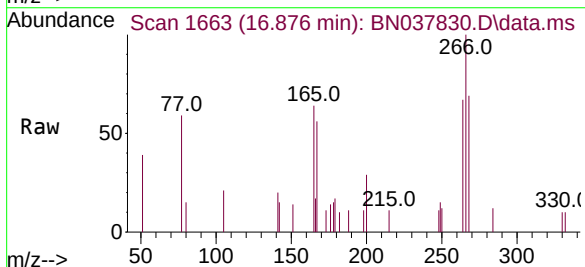
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

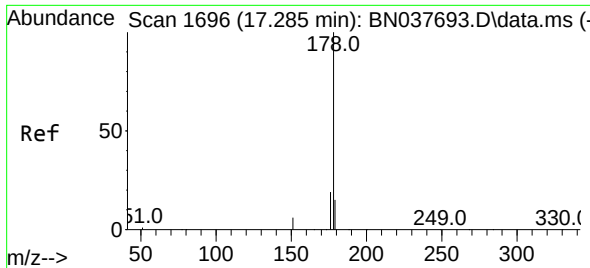
Tgt Ion:200 Resp: 1399
Ion Ratio Lower Upper
200 100
173 29.9 21.4 32.2
215 47.2 39.2 58.8



#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

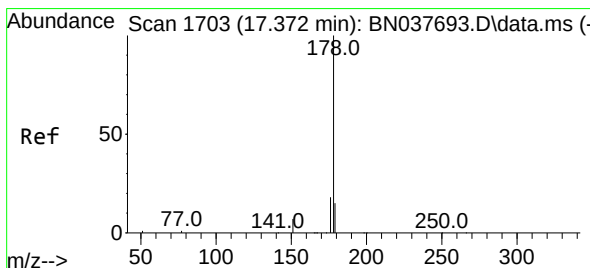
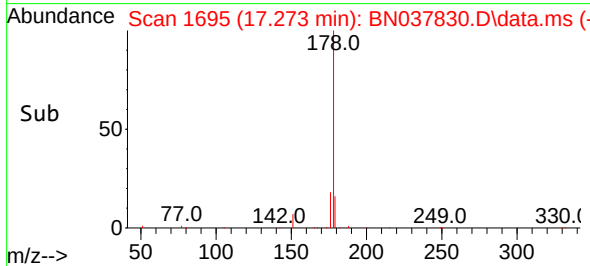
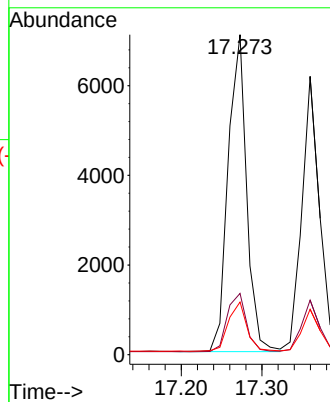
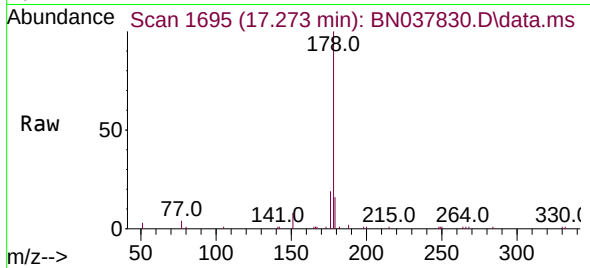




#25
Phenanthrene
Concen: 0.383 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

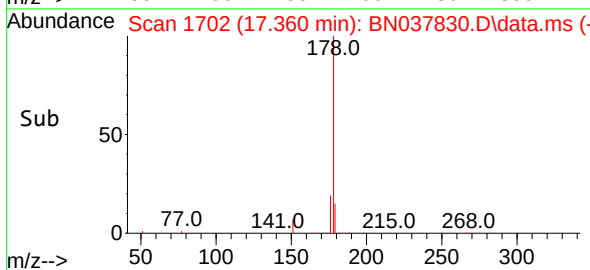
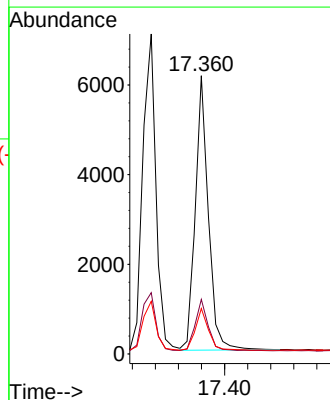
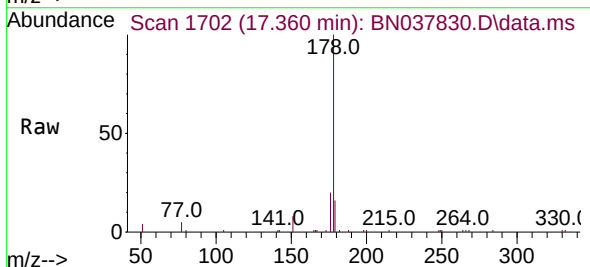
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

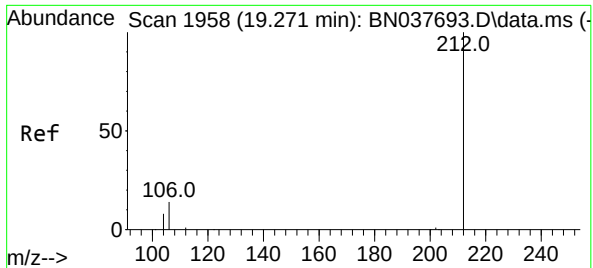
Tgt Ion:178 Resp: 11247
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.6 12.2 18.2



#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

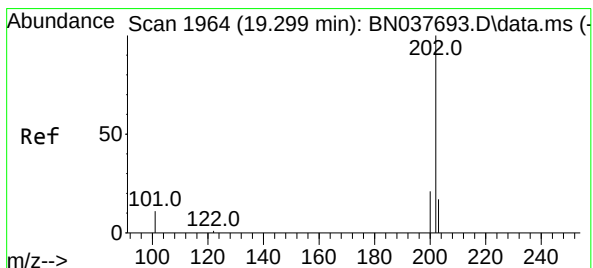
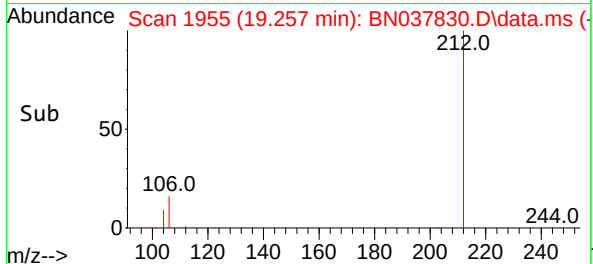
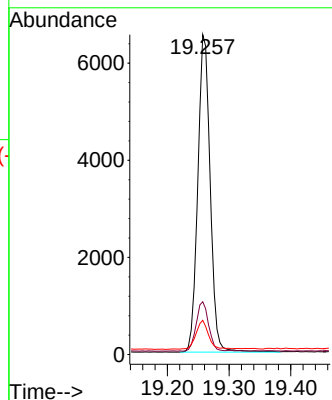
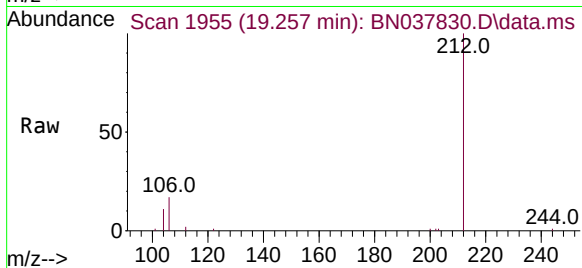




#27
Fluoranthene-d10
Concen: 0.387 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

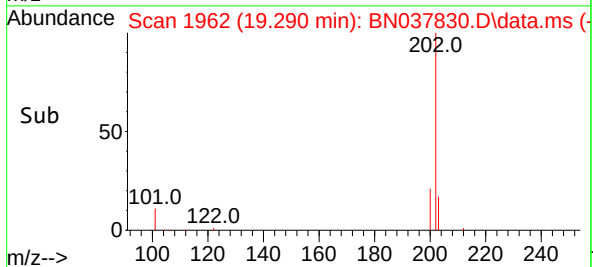
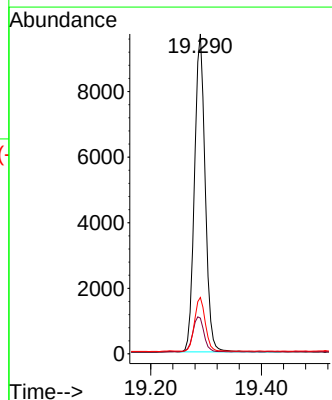
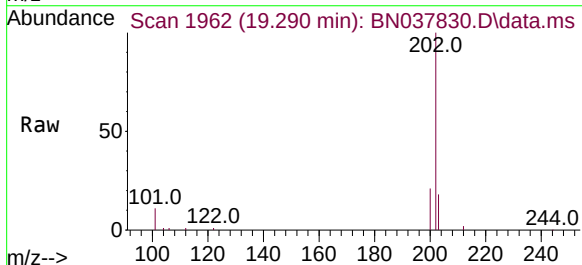
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

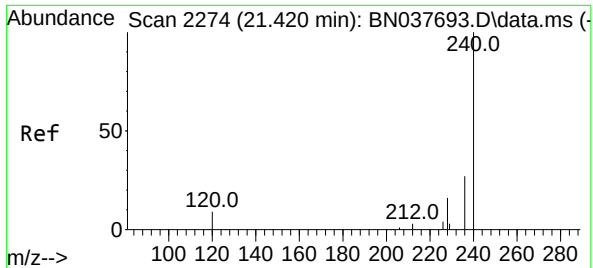
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.5	12.2	18.2
104	9.0	6.9	10.3



#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

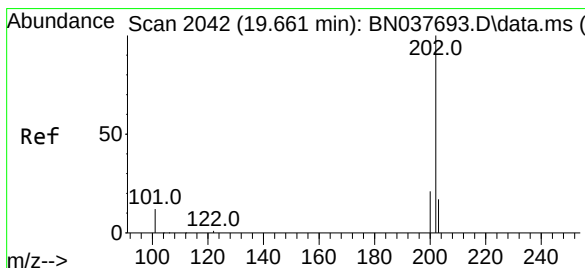
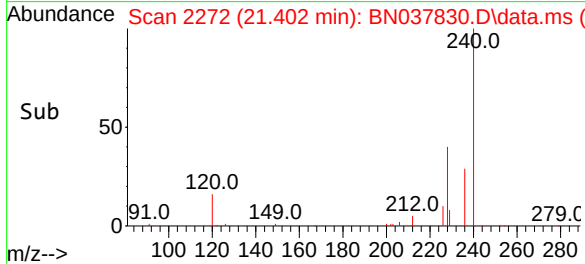
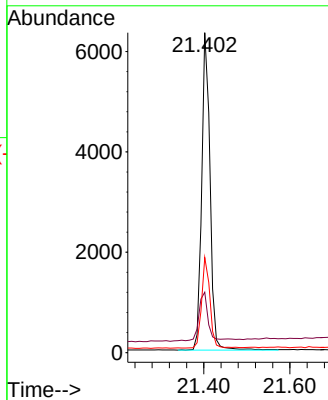
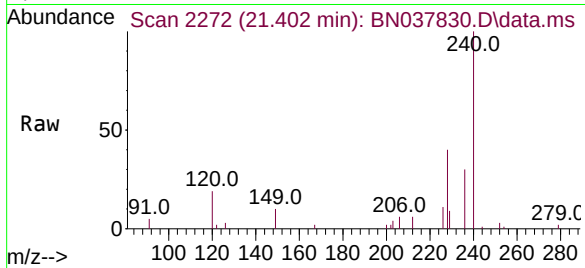




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

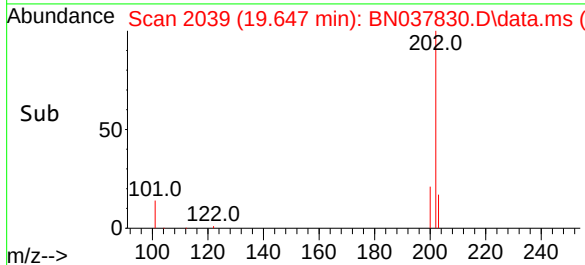
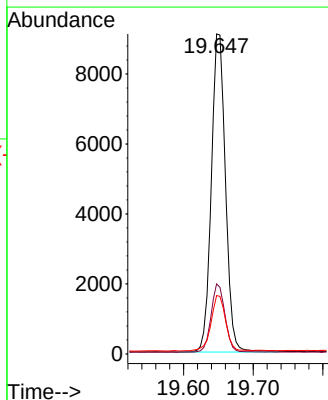
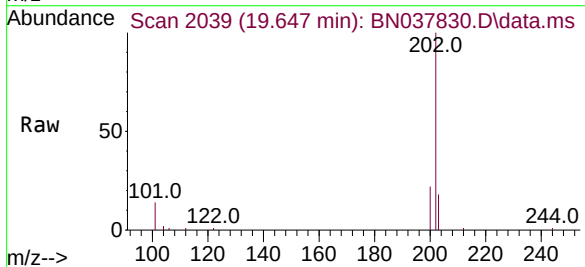
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

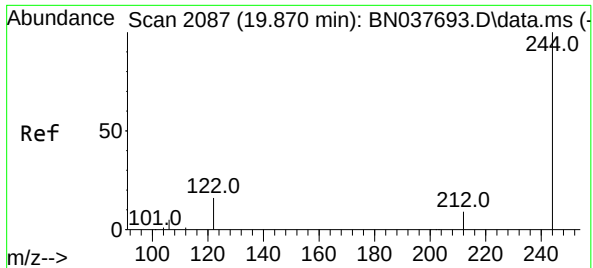
Tgt Ion:240 Resp: 8425
Ion Ratio Lower Upper
240 100
120 18.9 9.2 13.8#
236 29.7 22.6 33.8



#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

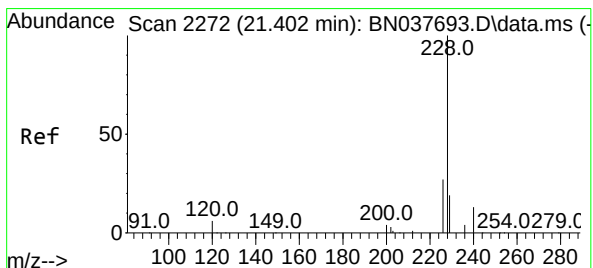
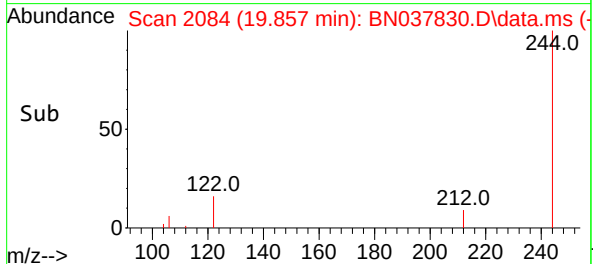
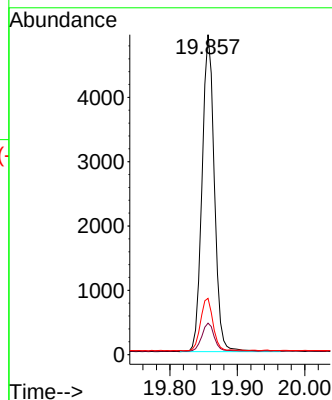
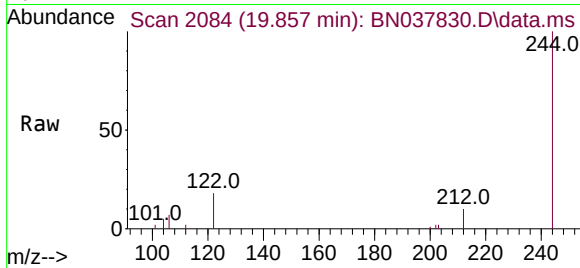




#31
Terphenyl-d14
Concen: 0.365 ng
RT: 19.857 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

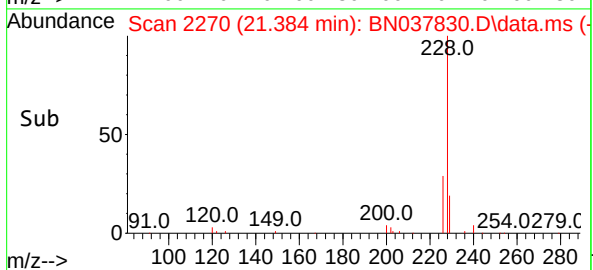
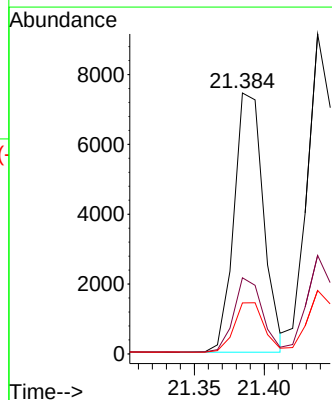
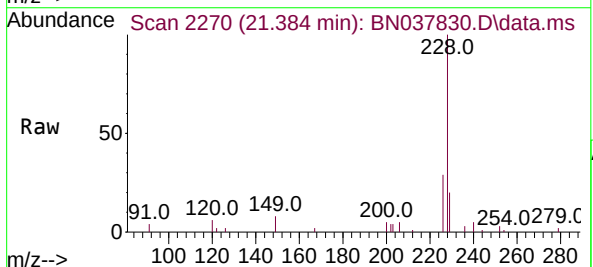
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

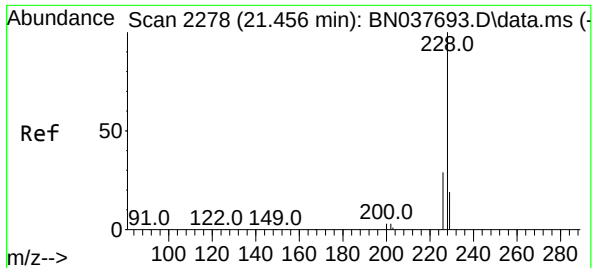
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.8	7.5	11.3
122	17.6	13.2	19.8



#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	Ratio	Lower	Upper
228	100		
226	29.1	22.2	33.2
229	19.5	15.8	23.6

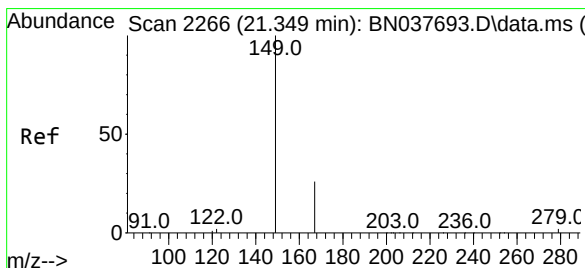
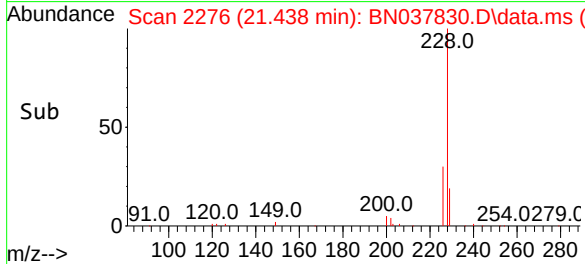
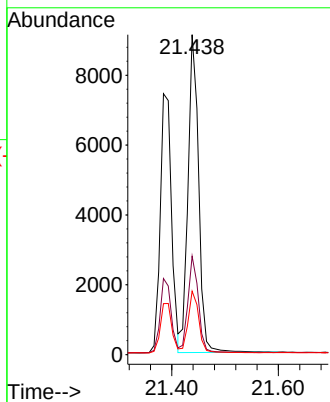
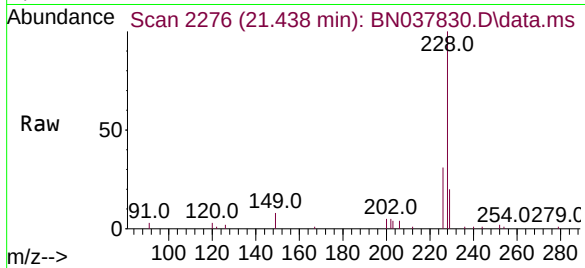




#33
Chrysene
Concen: 0.399 ng
RT: 21.438 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

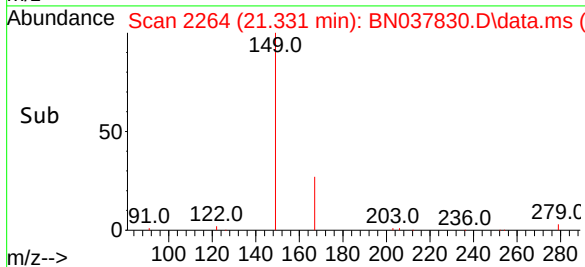
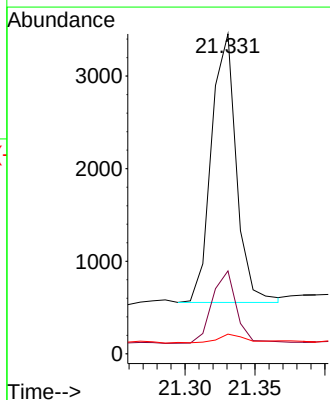
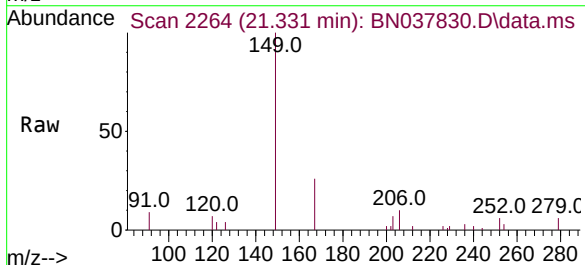
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

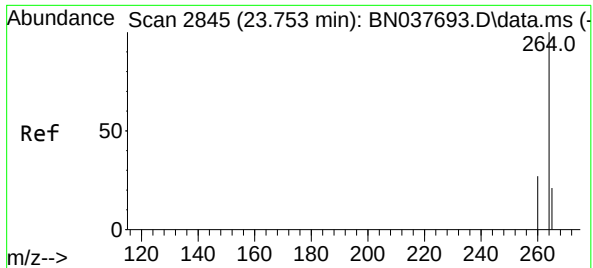
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	23.5	35.3
229	19.8	15.9	23.9



#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

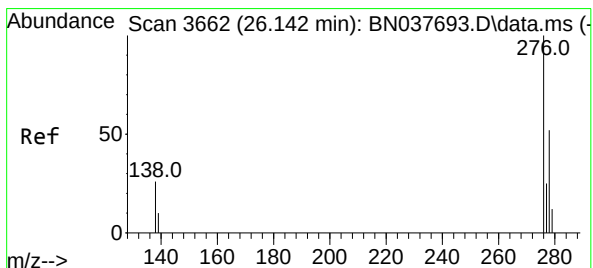
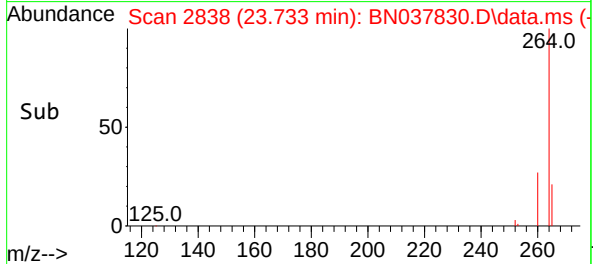
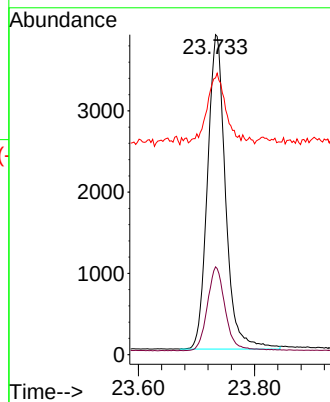
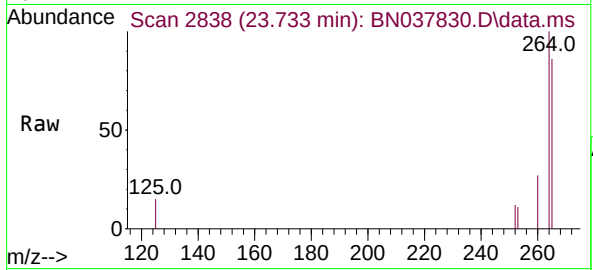




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.733 min Scan# 2838
Delta R.T. -0.020 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

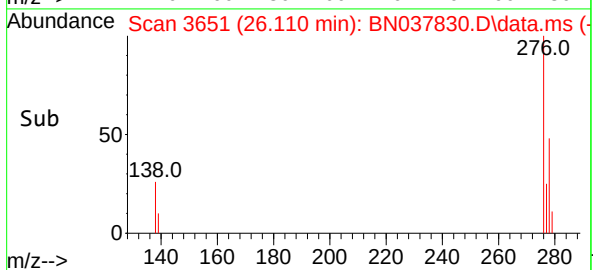
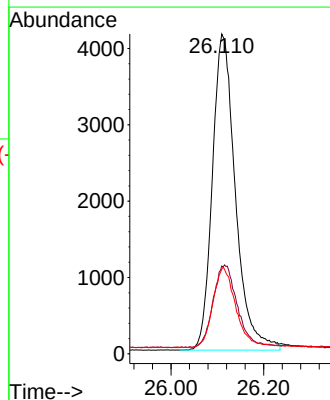
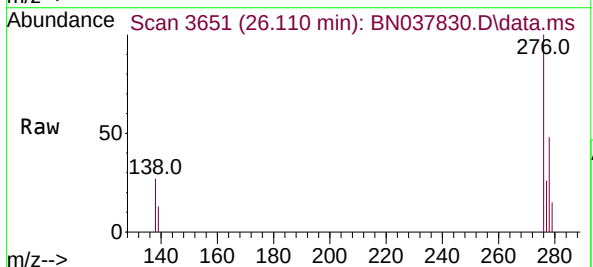
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

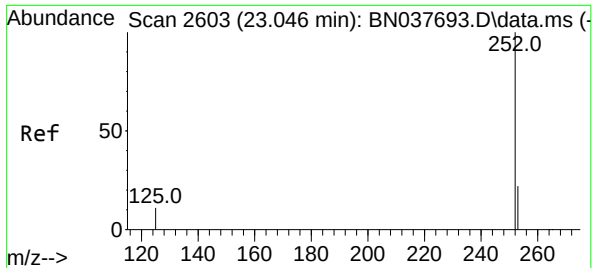
Tgt Ion:264 Resp: 8348
Ion Ratio Lower Upper
264 100
260 27.4 21.8 32.8
265 86.5 39.4 59.2#



#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

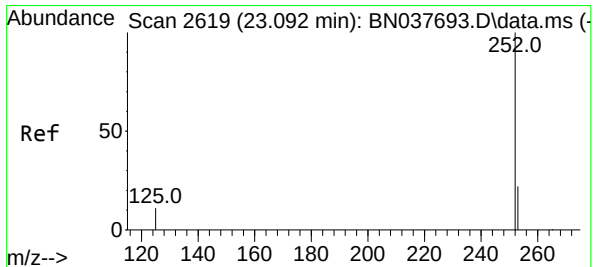
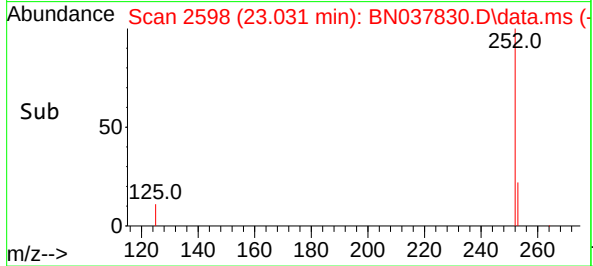
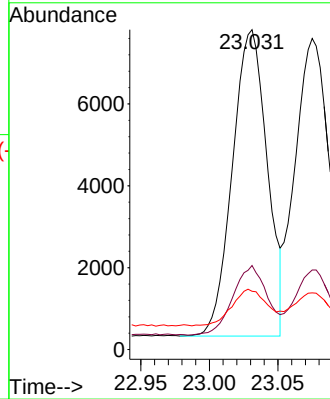
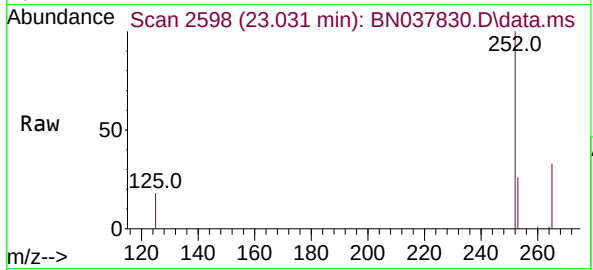
Tgt Ion:252 Resp: 13207

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

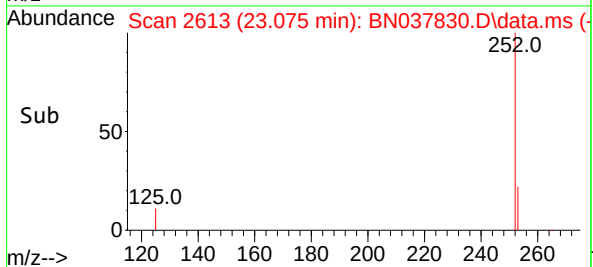
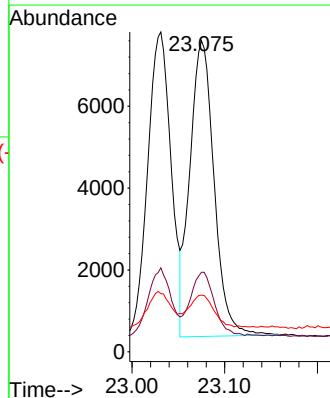
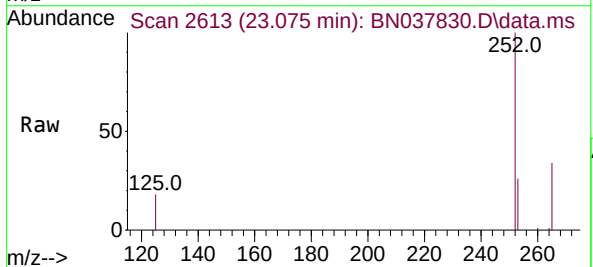
Tgt Ion:252 Resp: 13139

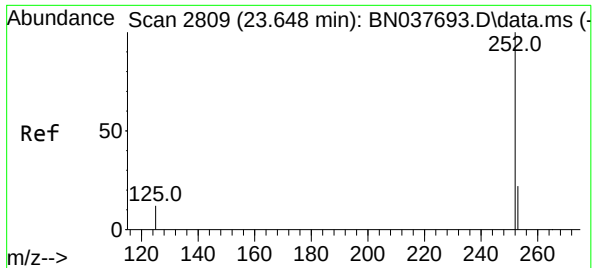
Ion Ratio Lower Upper

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

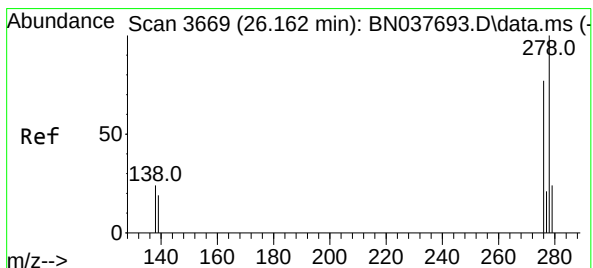
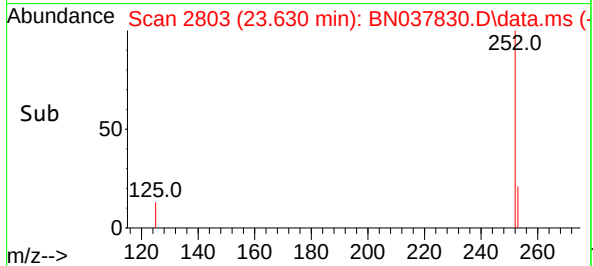
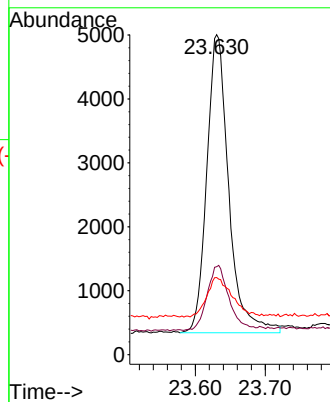
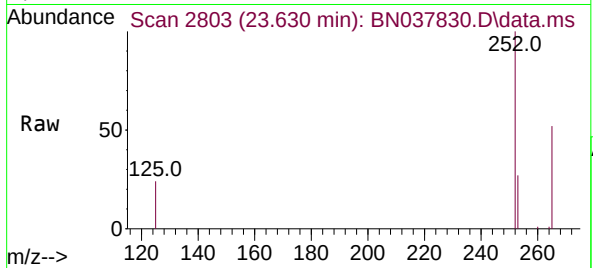
Tgt Ion:252 Resp: 10193

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

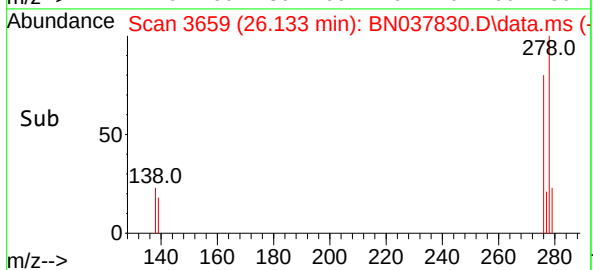
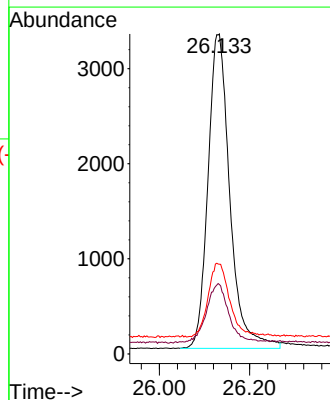
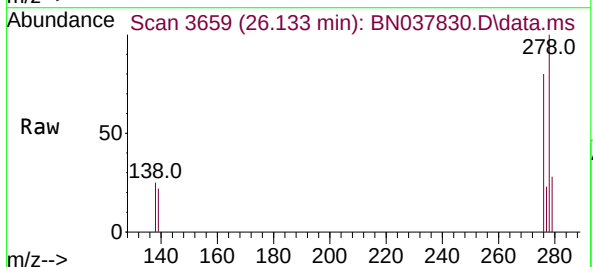
Tgt Ion:278 Resp: 11121

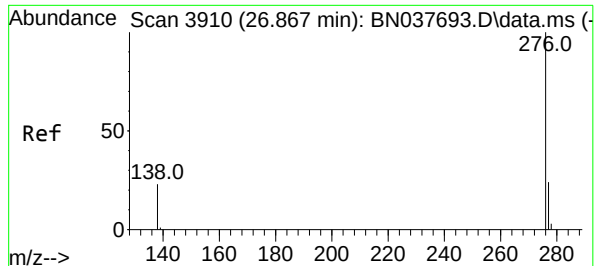
Ion Ratio Lower Upper

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

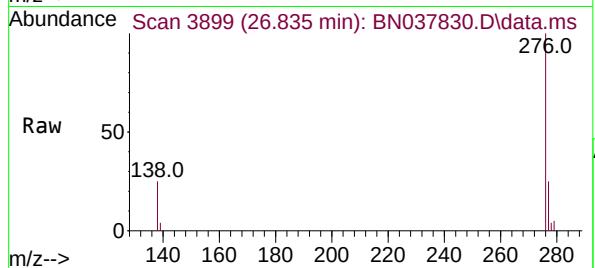
Acq: 20 Sep 2025 00:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



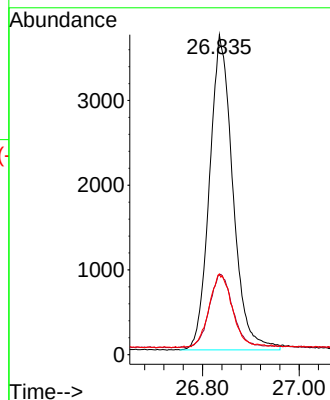
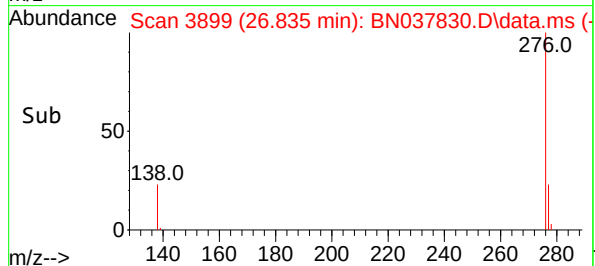
Tgt Ion:276 Resp: 12456

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: Alliance Contract: AECO15
 Lab Code: ACE SDG No.: Q3127
 Instrument ID: BNA_N Calibration Date/Time: 09/20/2025 02:35
 Lab File ID: BN037832.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	0.469		-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

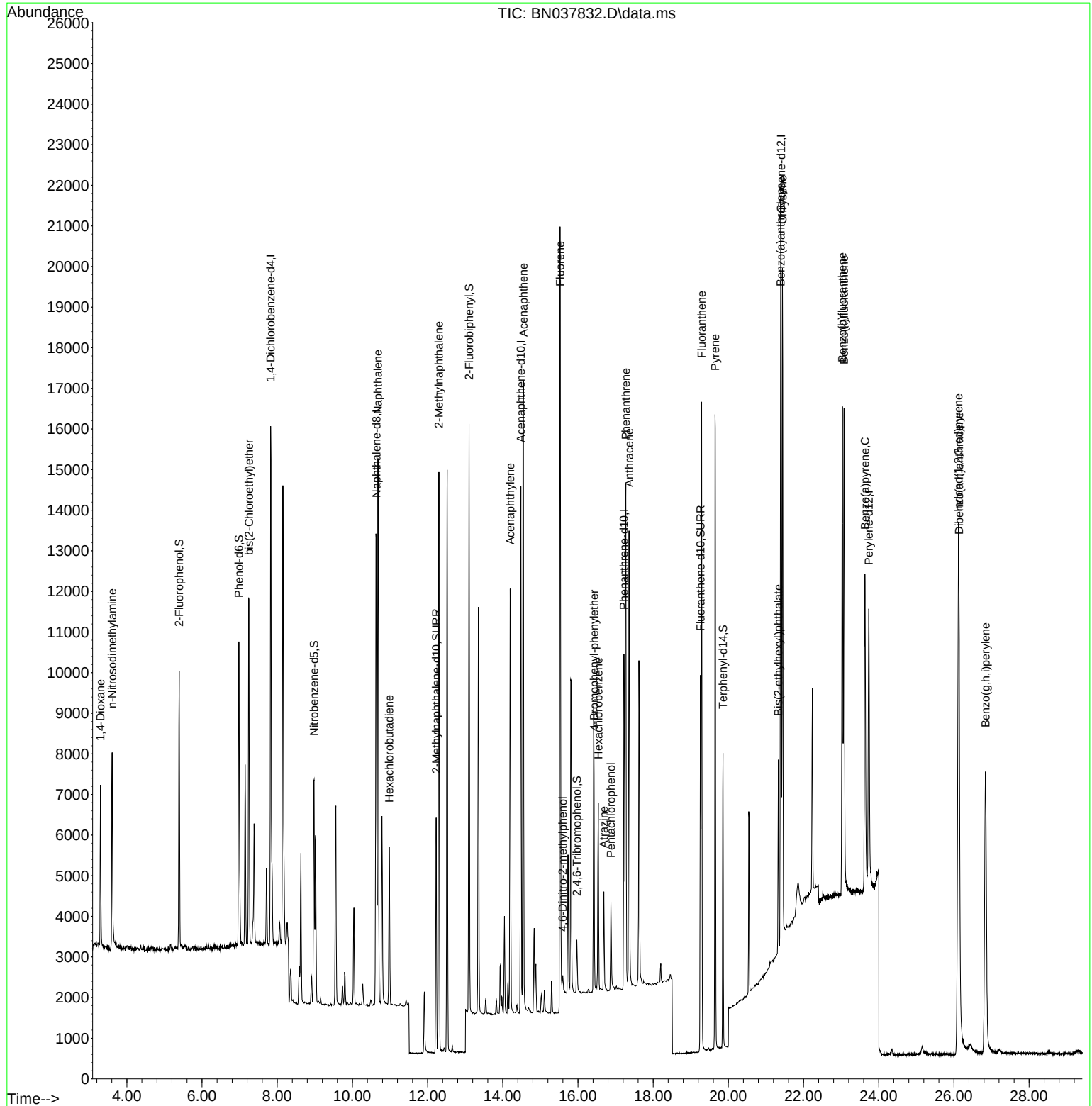
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	6232	0.400	ng	-0.01
7) Naphthalene-d8	10.637	136	16500	0.400	ng	#-0.01
13) Acenaphthene-d10	14.484	164	7183	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	11907	0.400	ng	-0.01
29) Chrysene-d12	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						
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

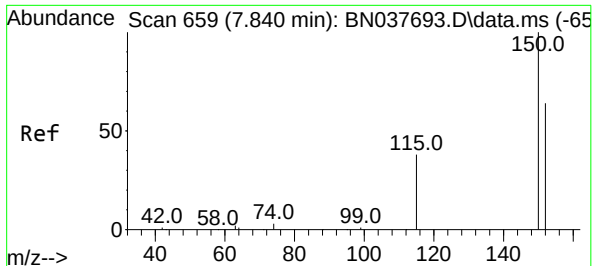
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Data File : BN037832.D
Acq On : 20 Sep 2025 02:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

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

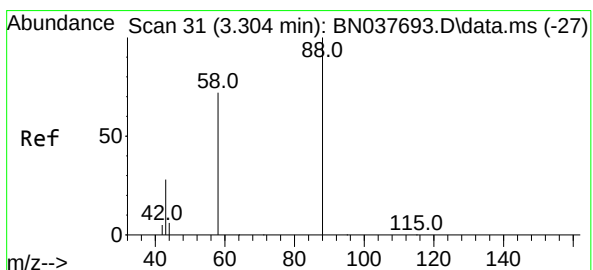
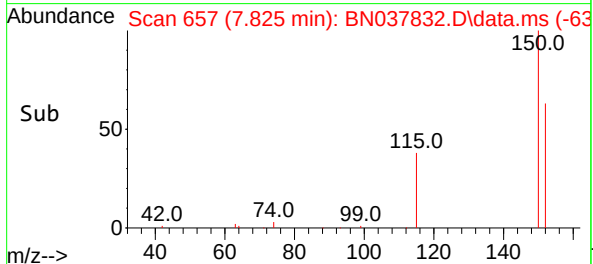
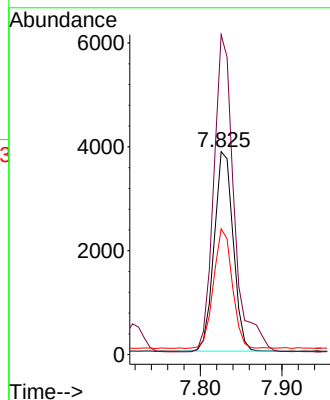
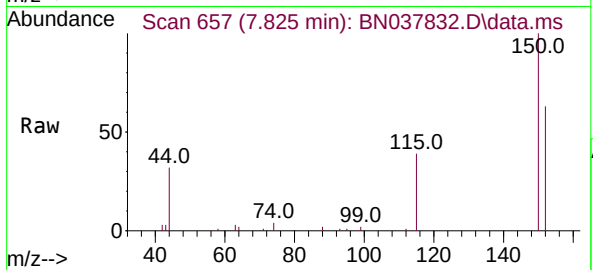




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

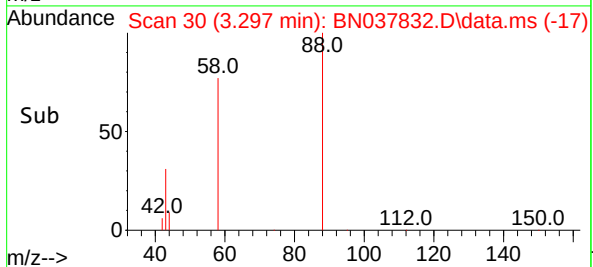
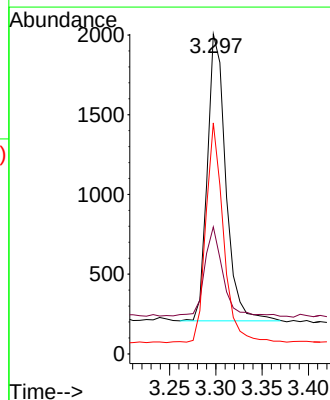
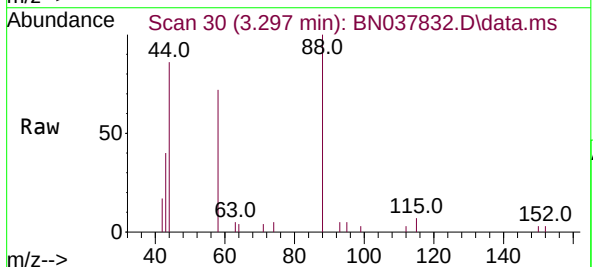
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

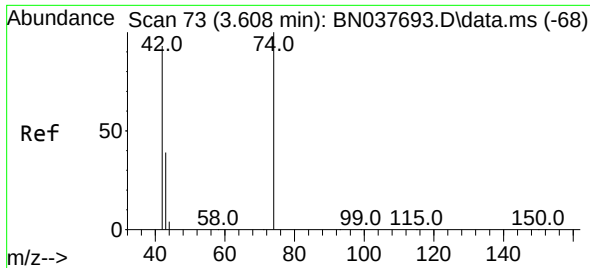
Tgt Ion:152 Resp: 6232
Ion Ratio Lower Upper
152 100
150 157.7 124.5 186.7
115 62.0 49.2 73.8



#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

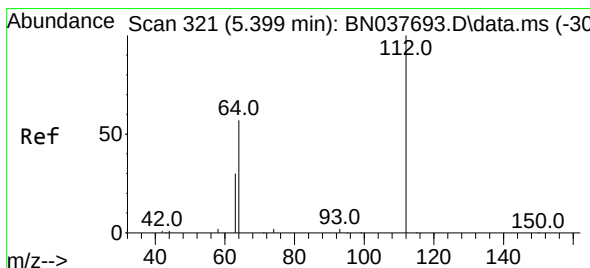
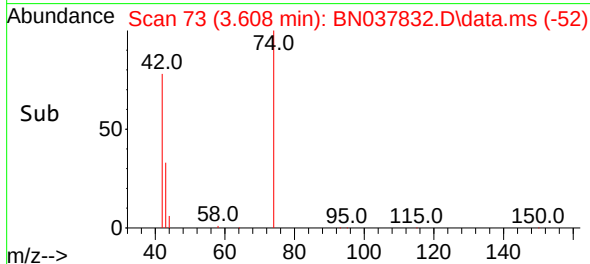
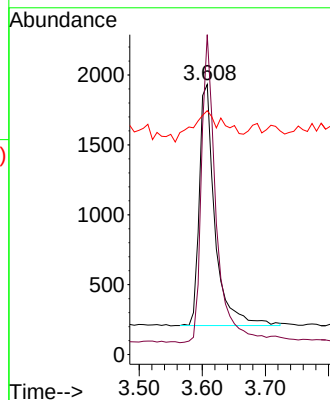
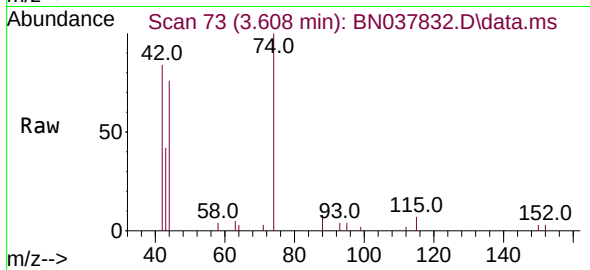




#3
n-Nitrosodimethylamine
Concen: 0.351 ng
RT: 3.608 min Scan# 73
Delta R.T. -0.000 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

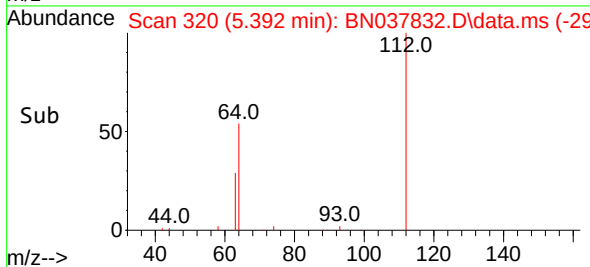
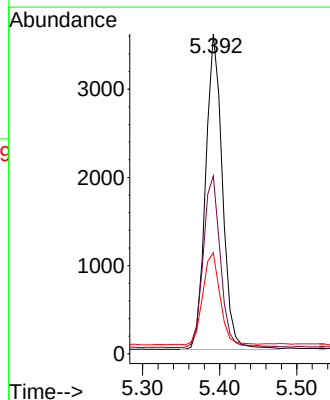
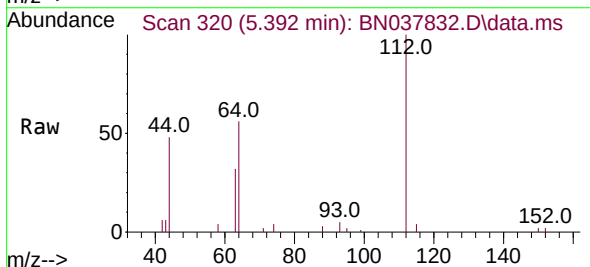
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

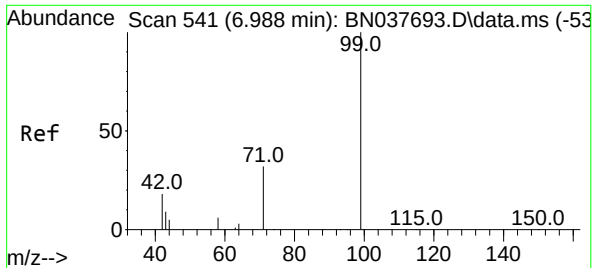
Tgt Ion: 42 Resp: 2977
Ion Ratio Lower Upper
42 100
74 119.4 86.0 129.0
44 26.8 8.4 12.6#



#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

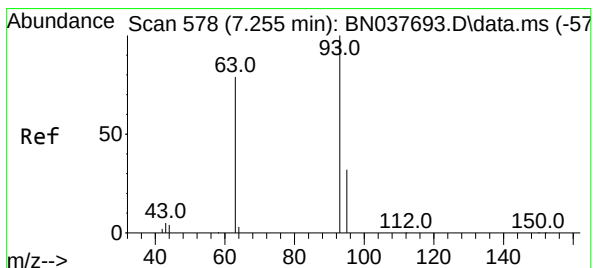
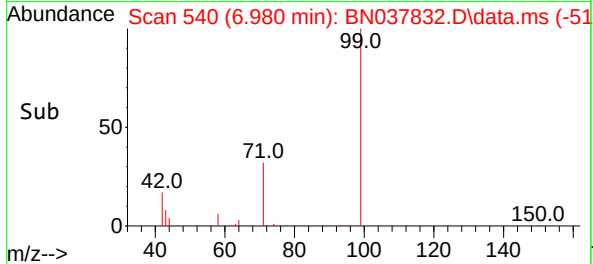
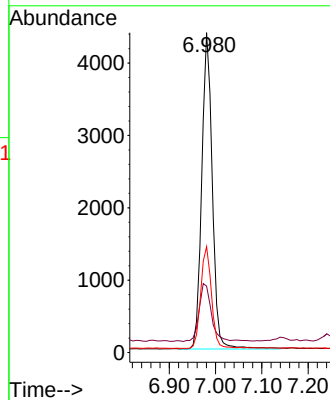
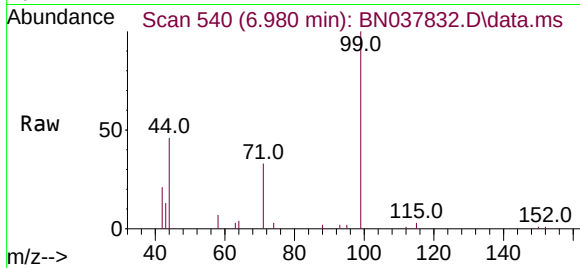




#5
Phenol-d6
Concen: 0.373 ng
RT: 6.980 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

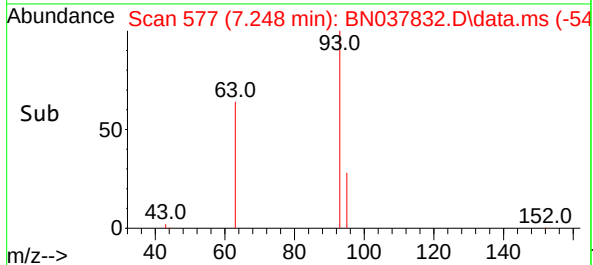
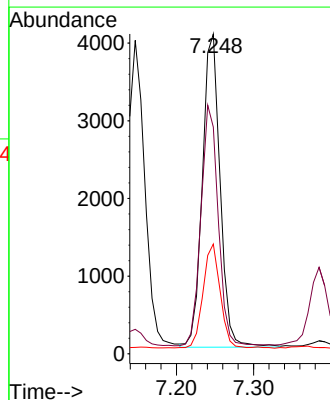
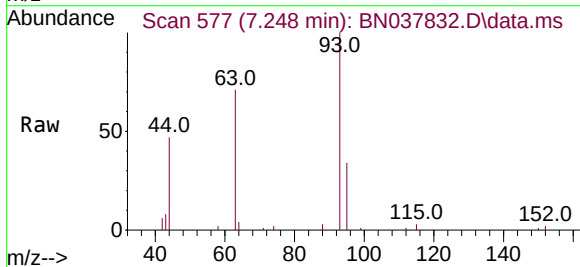
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

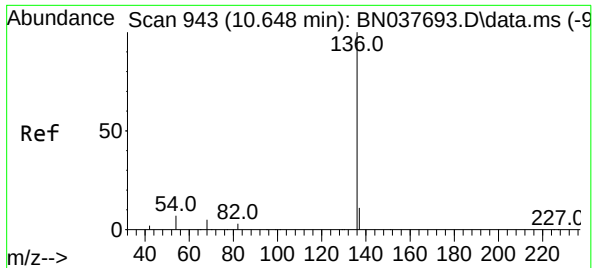
Tgt Ion: 99 Resp: 6919
Ion Ratio Lower Upper
99 100
42 21.0 16.6 24.8
71 33.0 26.7 40.1



#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

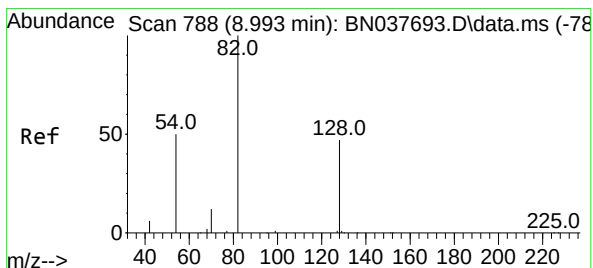
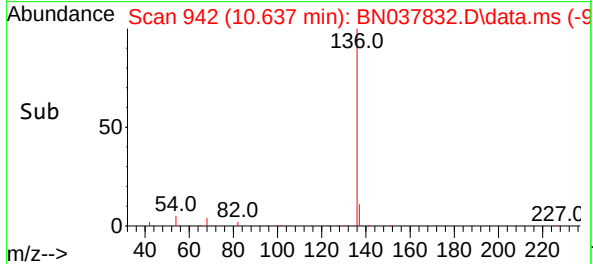
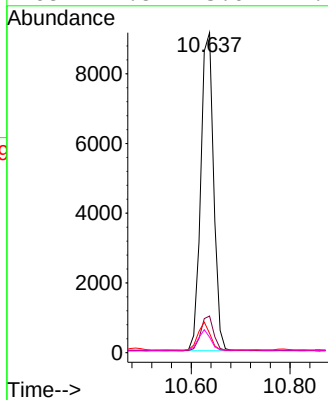
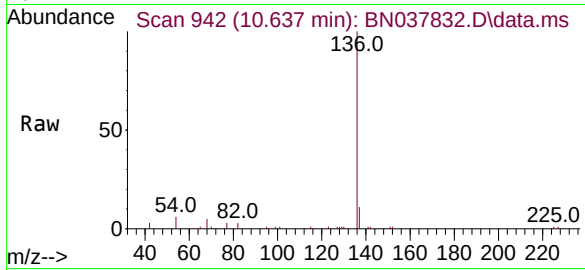




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

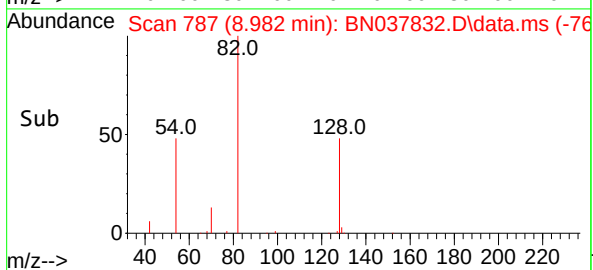
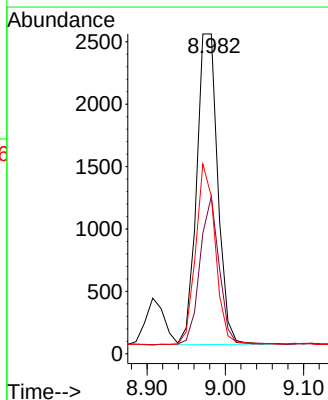
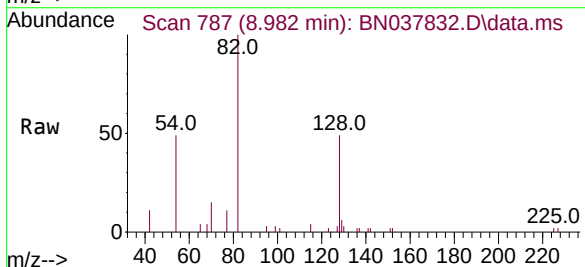
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

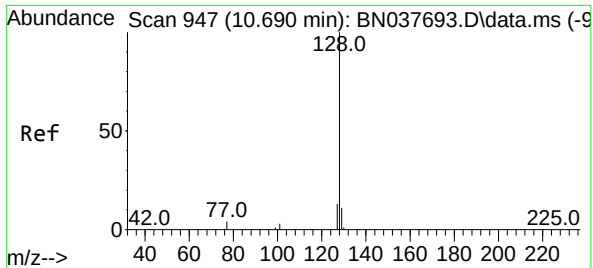
Tgt Ion:	136	Resp:	16500
Ion Ratio	Lower	Upper	
136	100		
137	11.4	9.1	13.7
54	6.0	6.3	9.5#
68	4.8	5.0	7.4#



#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

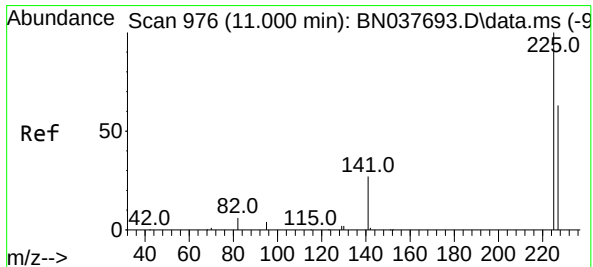
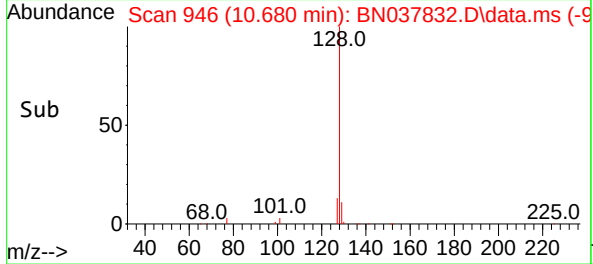
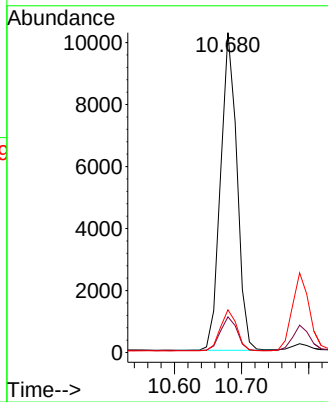
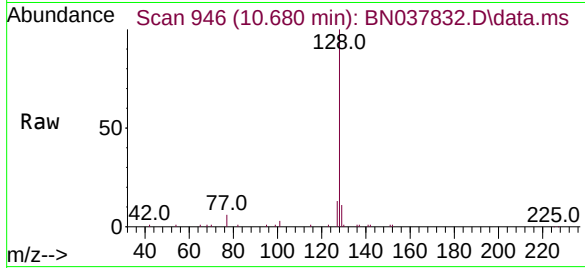




#9
Naphthalene
Concen: 0.385 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

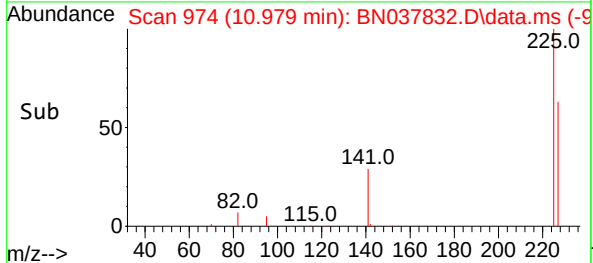
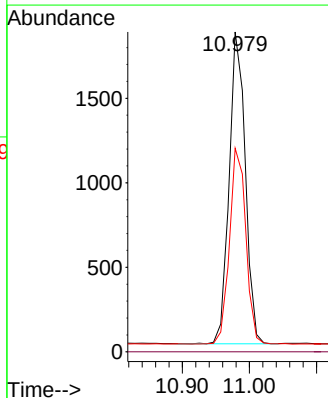
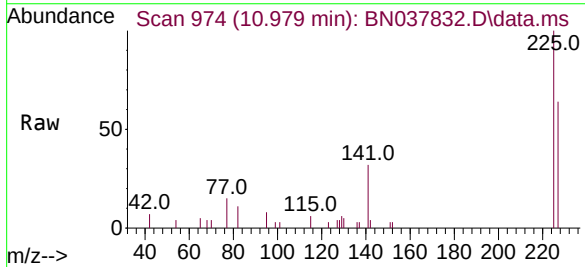
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

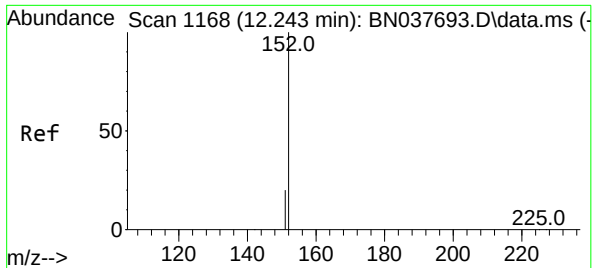
Tgt Ion:	128	Resp:	17368
Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.1	13.7
127	13.4	10.9	16.3



#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

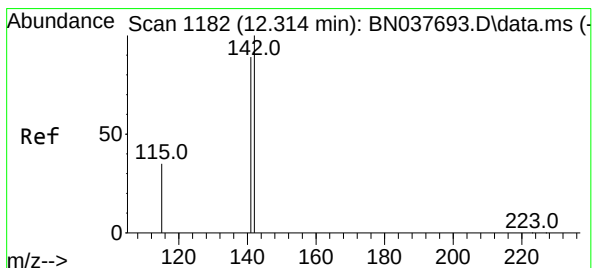
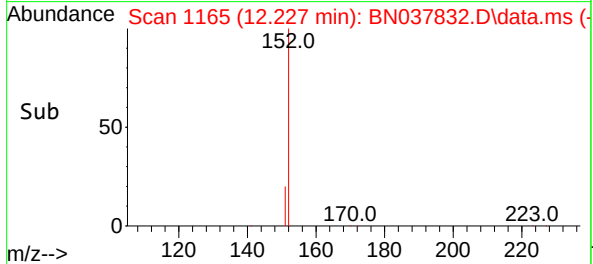
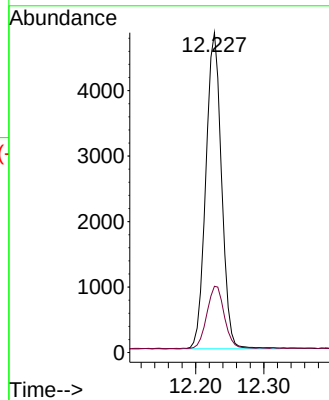
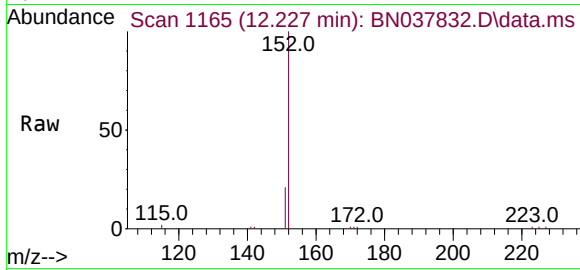




#11
2-Methylnaphthalene-d10
Concen: 0.354 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

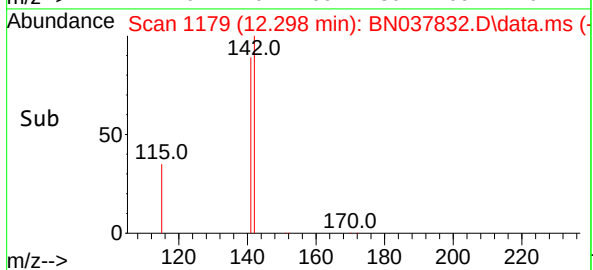
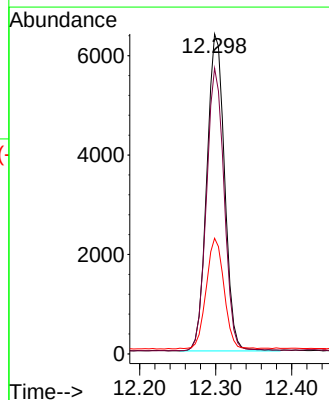
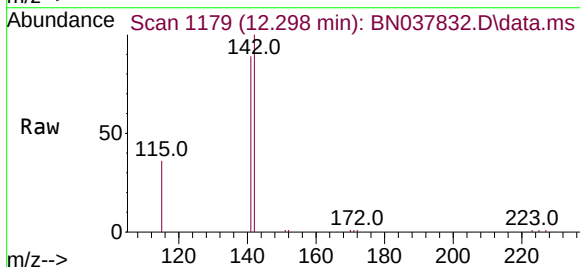
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

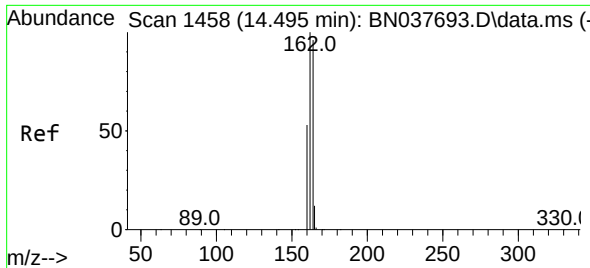
Tgt Ion:152 Resp: 7736
Ion Ratio Lower Upper
152 100
151 22.1 17.0 25.6



#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

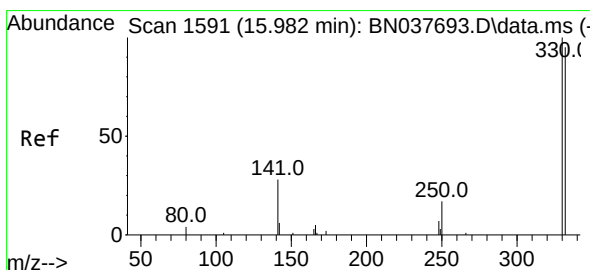
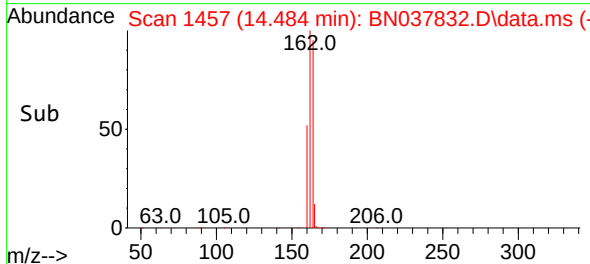
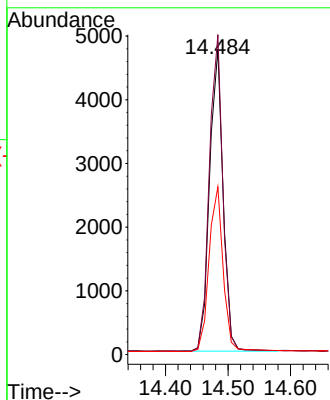
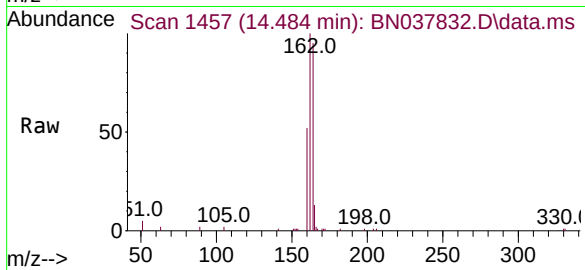




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

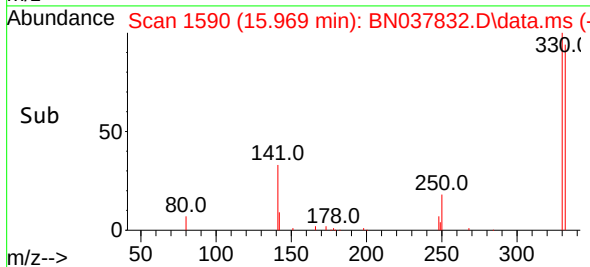
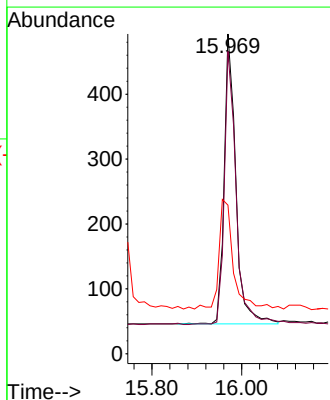
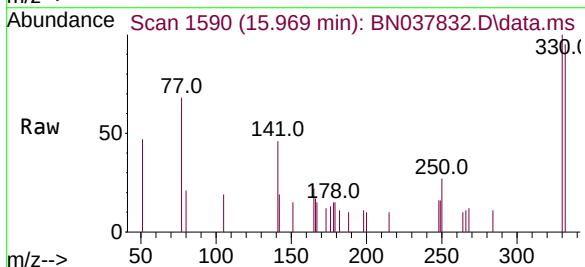
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

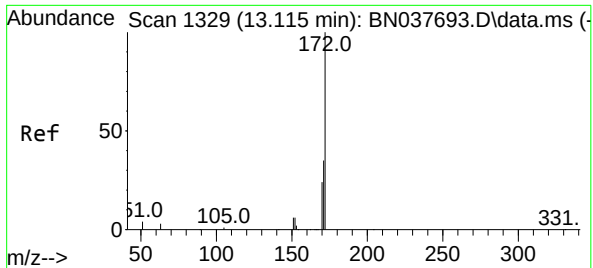
Tgt Ion	164	Resp	7183
Ion Ratio	Lower	Upper	
164	100		
162	104.8	83.1	124.7
160	54.9	44.3	66.5



#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

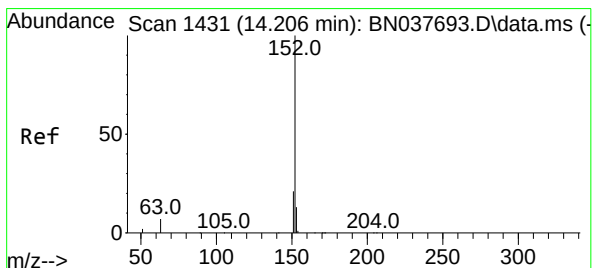
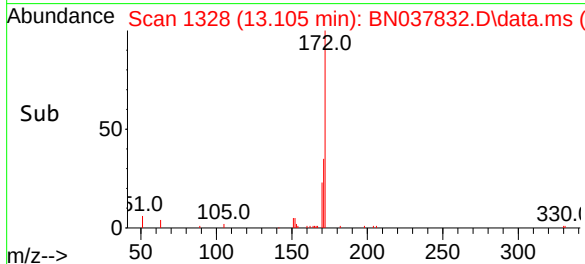
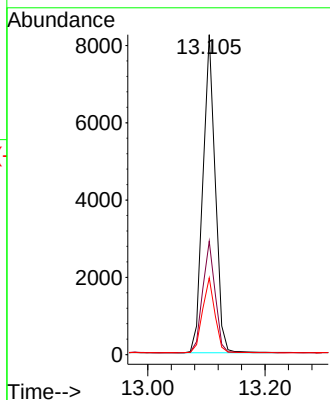
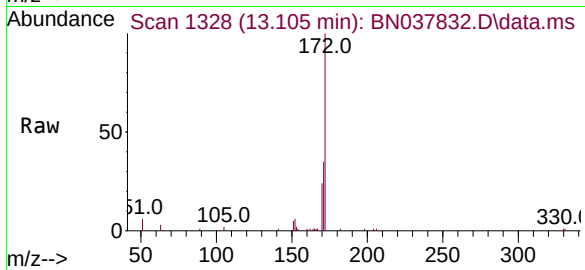




#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

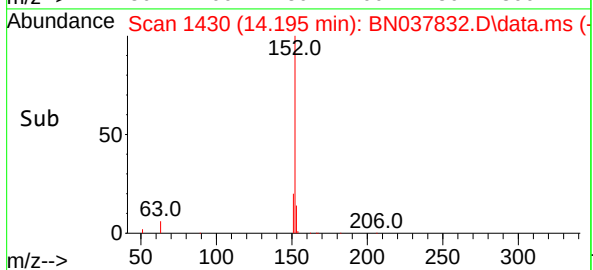
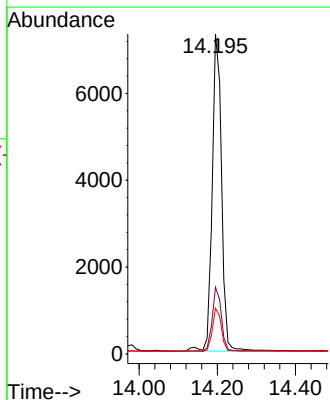
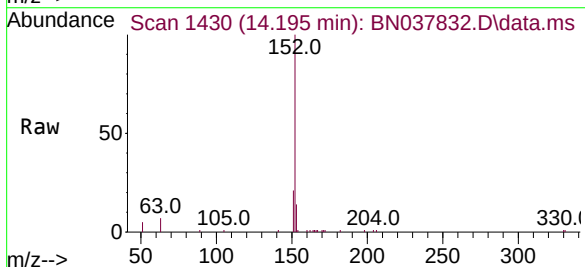
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

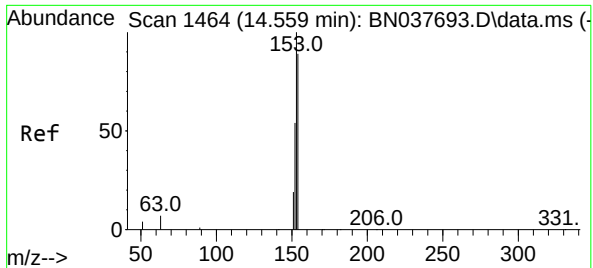
Tgt Ion:	172	Resp:	11968
Ion Ratio	Lower	Upper	
172	100		
171	35.5	28.6	43.0
170	24.0	19.8	29.8



#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:	152	Resp:	12222
Ion Ratio	Lower	Upper	
152	100		
151	19.5	16.2	24.2
153	12.6	10.4	15.6

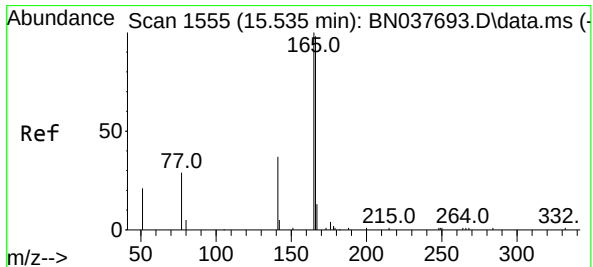
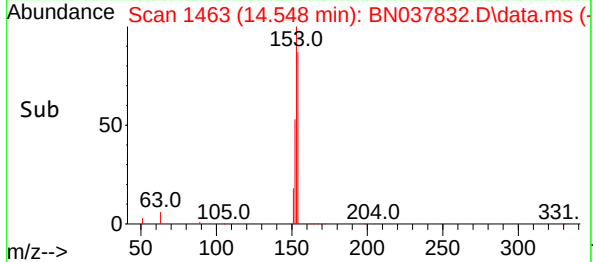
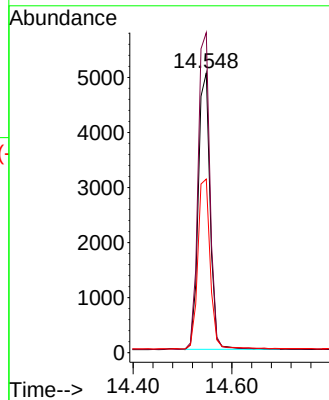
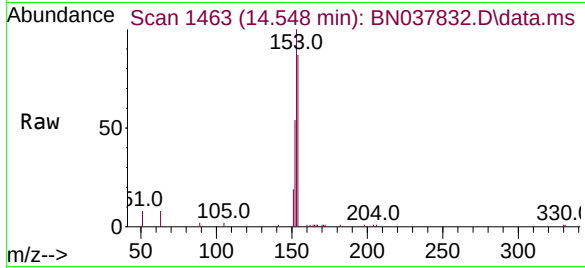




#17
Acenaphthene
Concen: 0.374 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

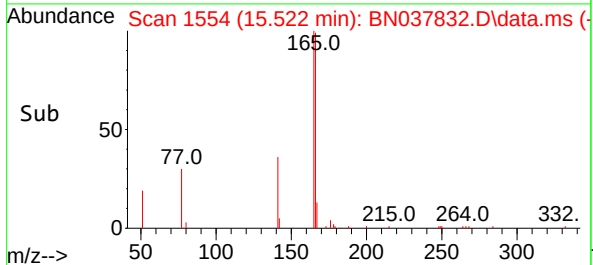
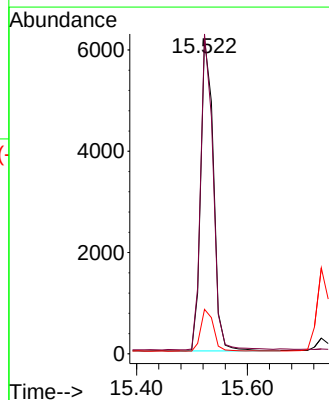
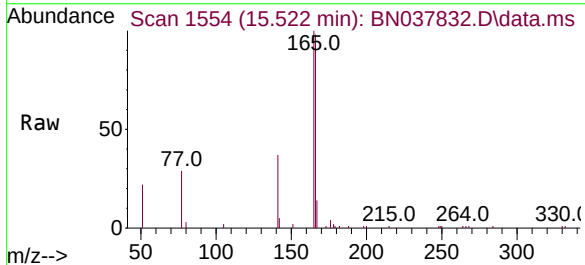
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

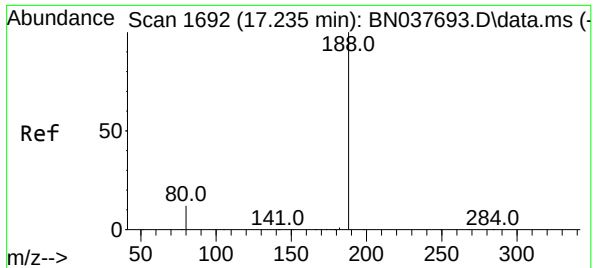
Tgt Ion:154 Resp: 8331
Ion Ratio Lower Upper
154 100
153 116.5 89.8 134.8
152 64.6 50.2 75.2



#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# 11

Delta R.T. -0.013 min

Lab File: BN037832.D

Acq: 20 Sep 2025 02:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

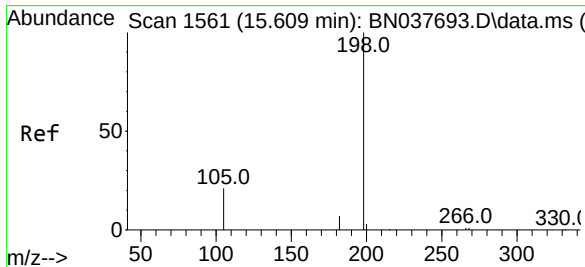
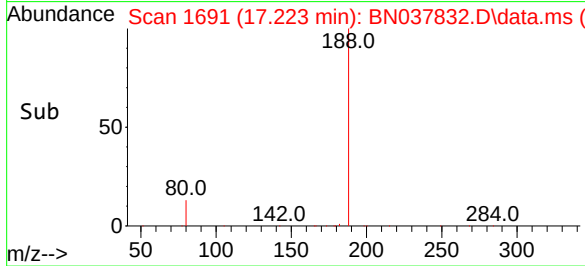
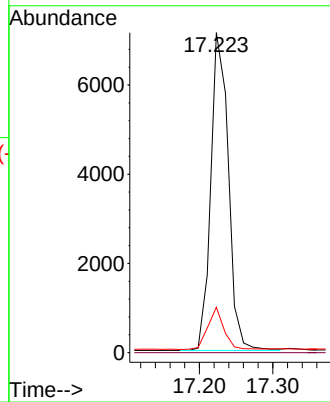
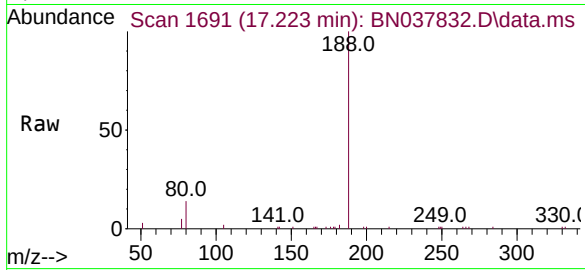
Tgt Ion:188 Resp: 11907

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

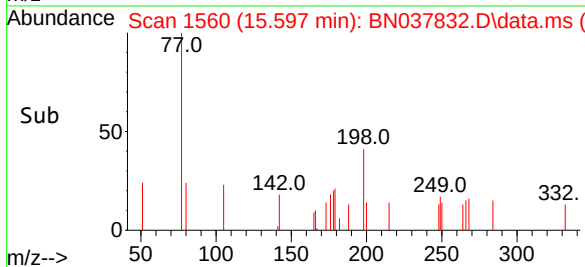
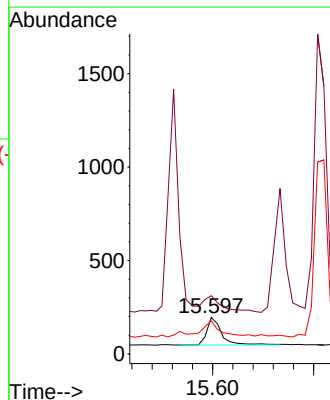
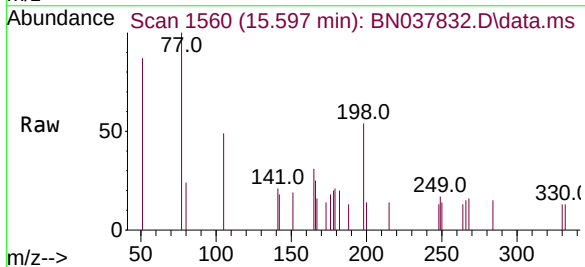
Tgt Ion:198 Resp: 300

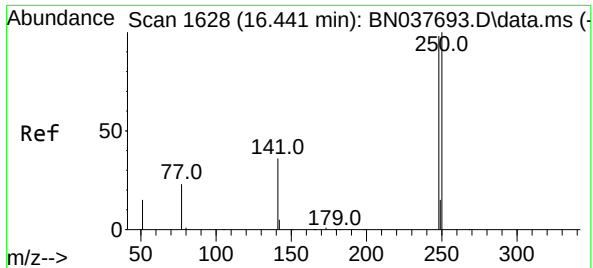
Ion Ratio Lower Upper

198 100

51 160.0 95.1 142.7#

105 90.8 53.8 80.6#

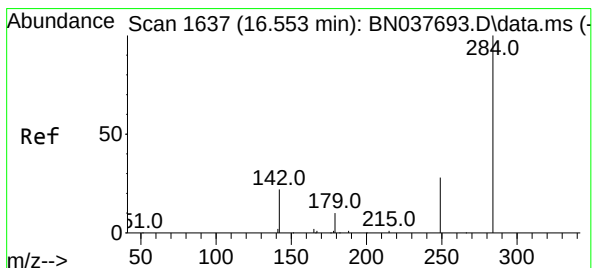
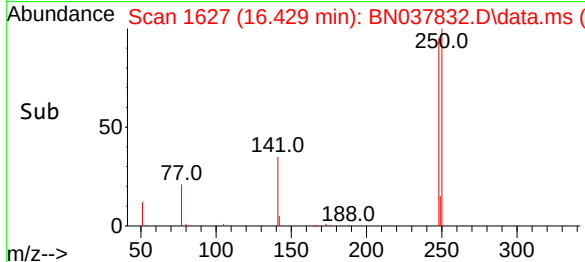
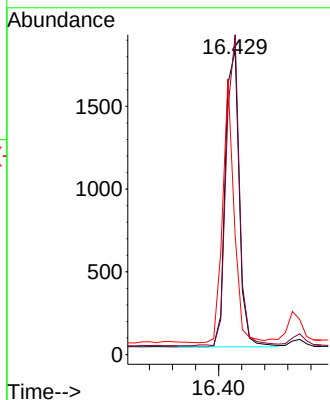
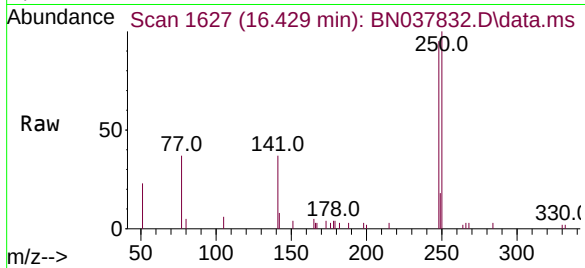




#21
4-Bromophenyl-phenylether
Concen: 0.386 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.013 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

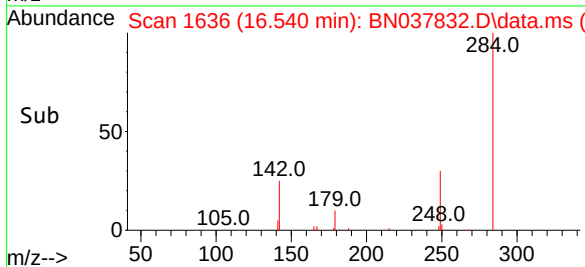
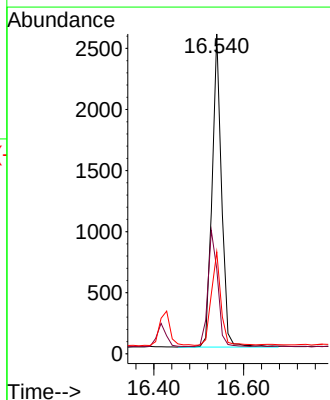
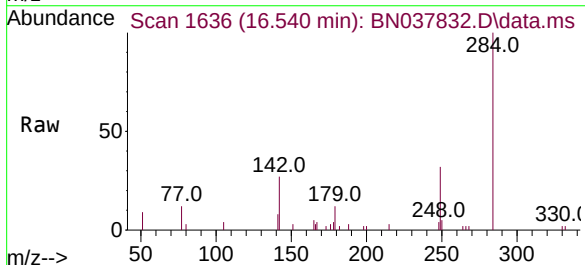
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

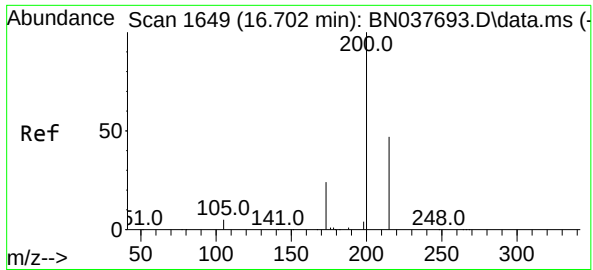
Tgt Ion	Ratio	Lower	Upper
248	100		
250	105.2	81.5	122.3
141	39.2	30.8	46.2



#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

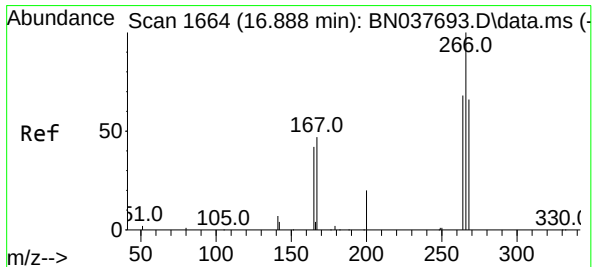
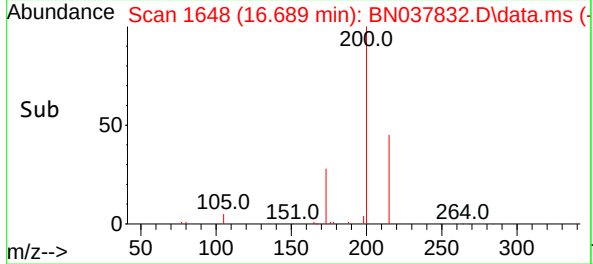
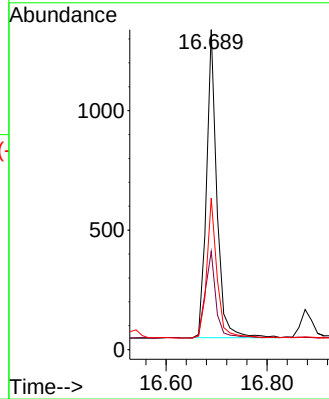
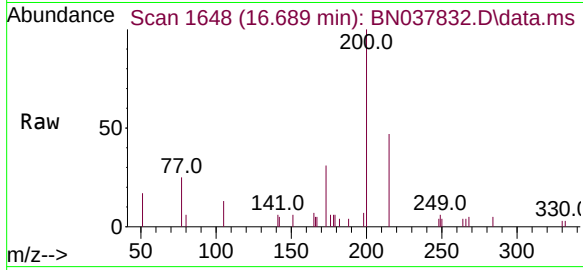




#23
Atrazine
Concen: 0.369 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.012 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

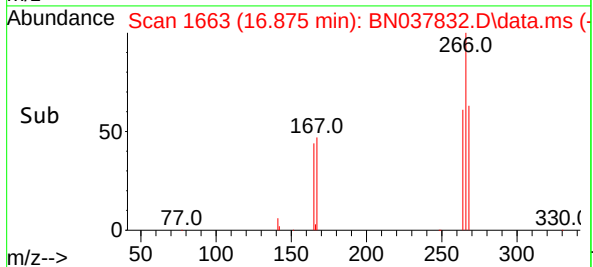
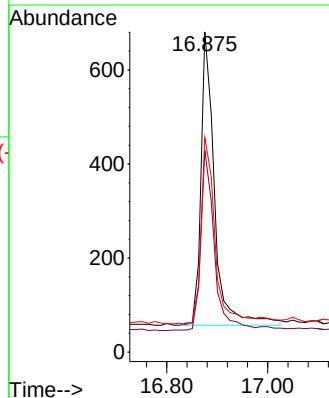
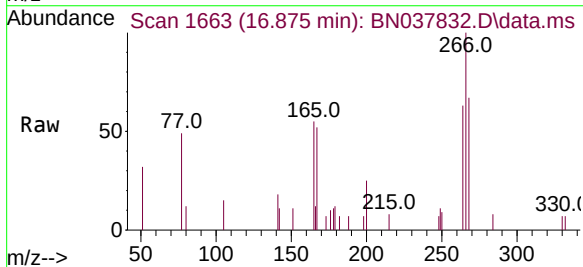
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

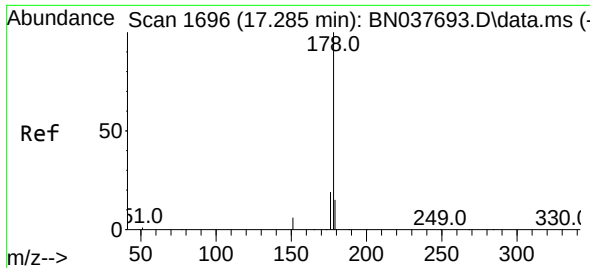
Tgt Ion	Ratio	Lower	Upper
200	100		
173	30.7	21.4	32.2
215	47.3	39.2	58.8



#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	Ratio	Lower	Upper
266	100		
264	61.9	51.6	77.4
268	65.0	53.2	79.8

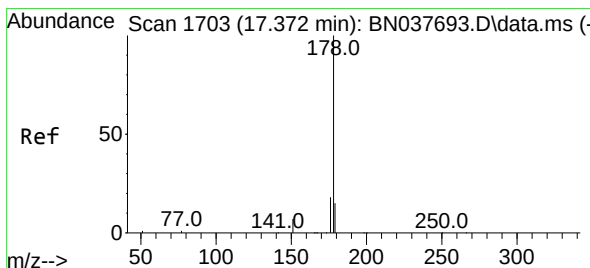
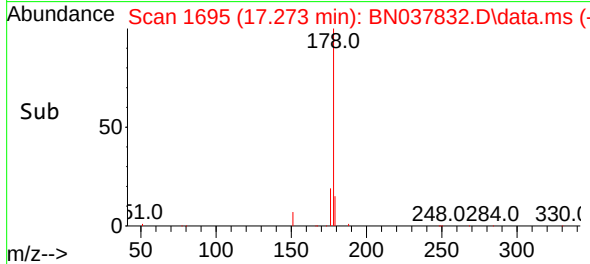
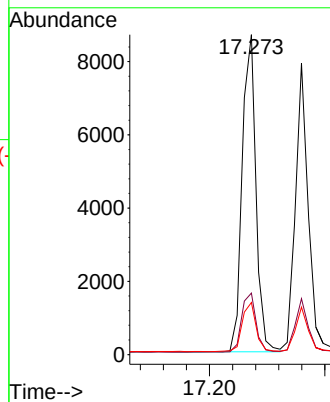
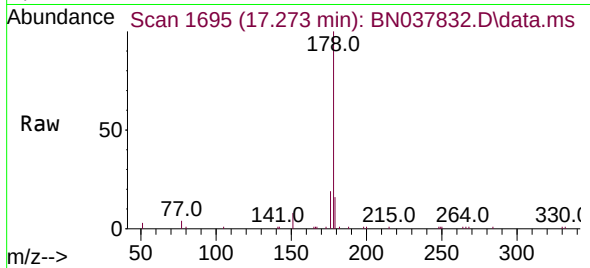




#25
Phenanthrene
Concen: 0.384 ng
RT: 17.273 min Scan# 1696
Delta R.T. -0.012 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

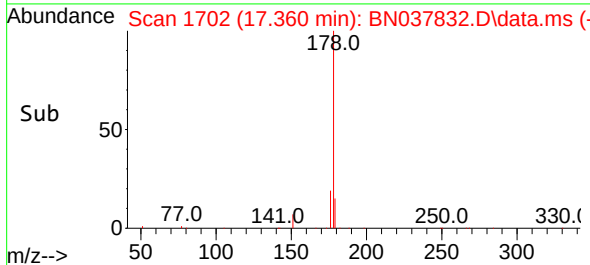
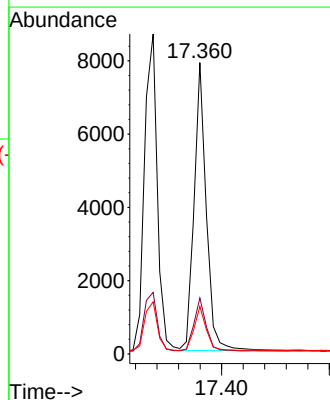
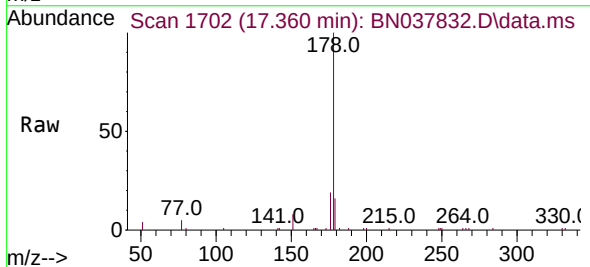
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

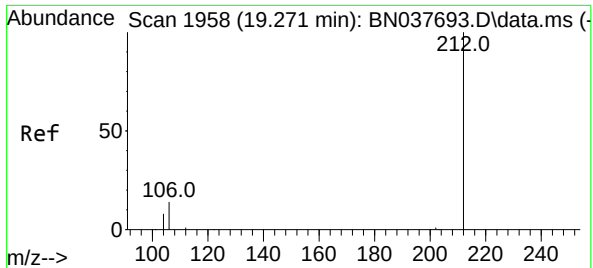
Tgt Ion:178 Resp: 14378
Ion Ratio Lower Upper
178 100
176 19.6 15.3 22.9
179 15.6 12.2 18.2



#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

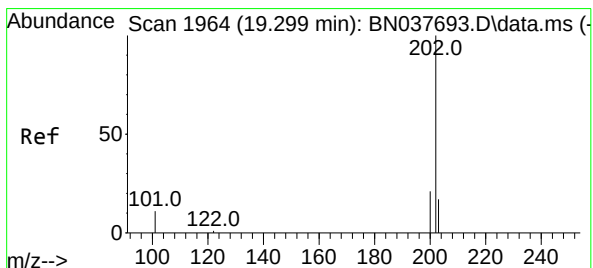
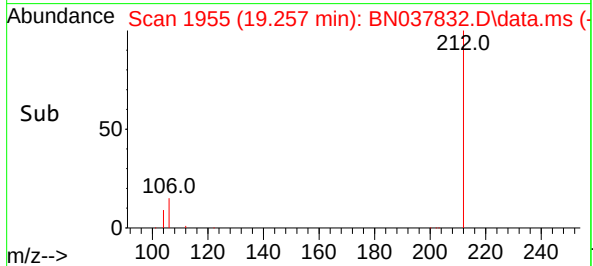
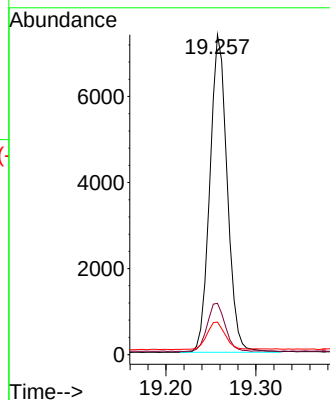
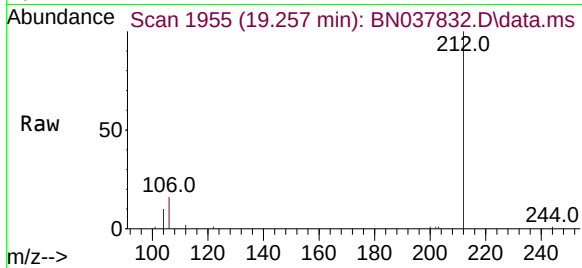




#27
Fluoranthene-d10
Concen: 0.331 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

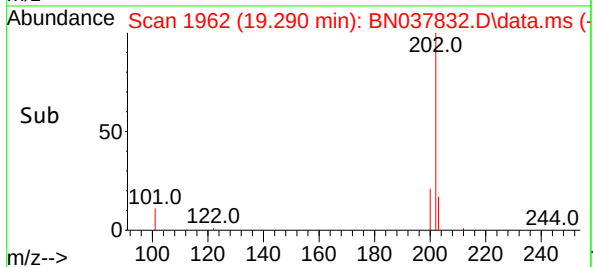
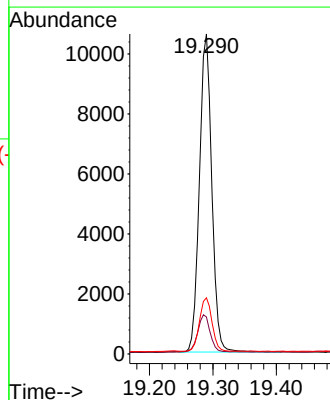
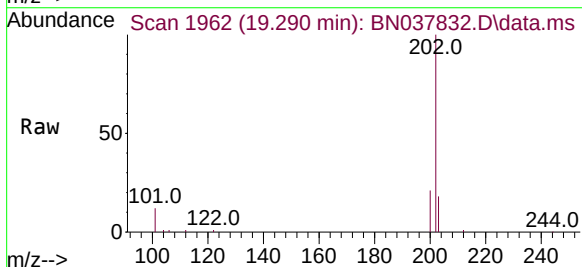
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

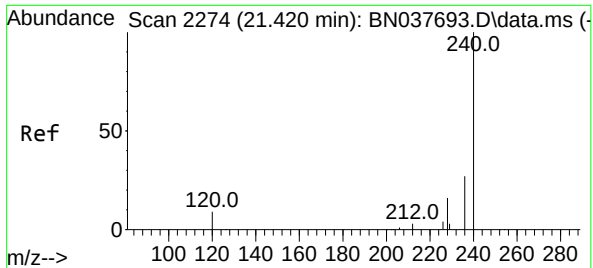
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.7	12.2	18.2
104	9.1	6.9	10.3



#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

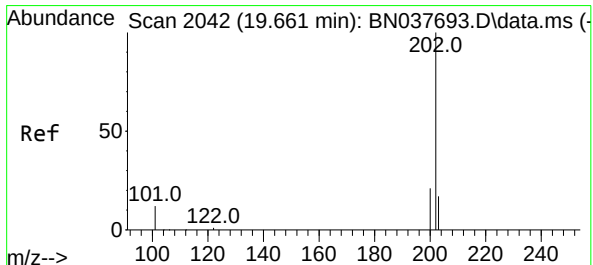
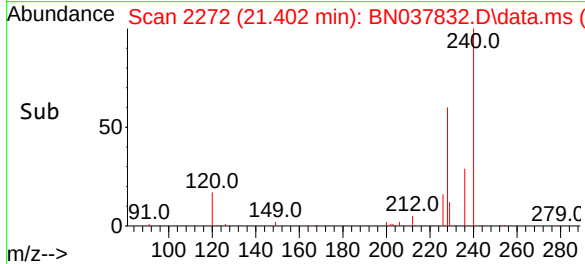
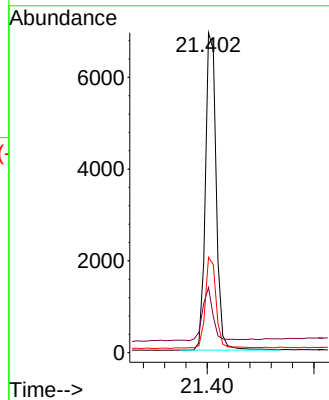
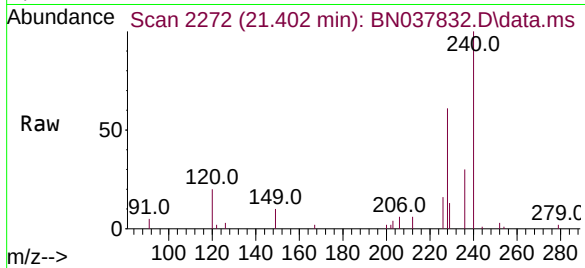




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

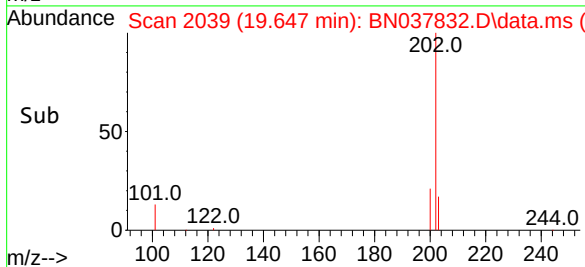
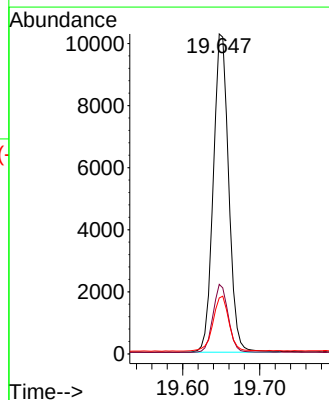
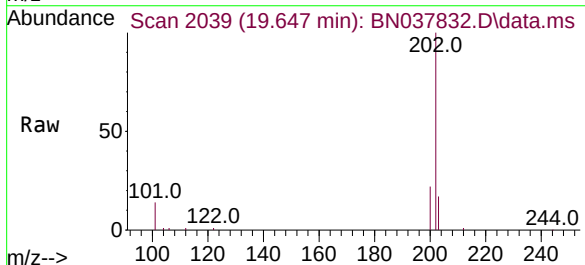
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

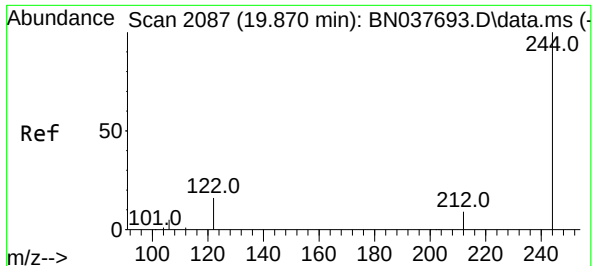
Tgt Ion:240 Resp: 9777
Ion Ratio Lower Upper
240 100
120 20.3 9.2 13.8#
236 29.8 22.6 33.8



#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

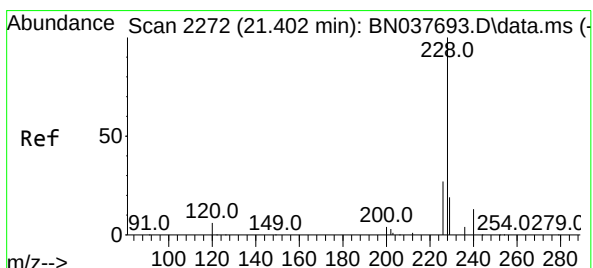
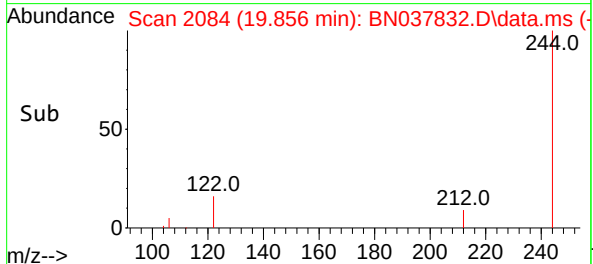
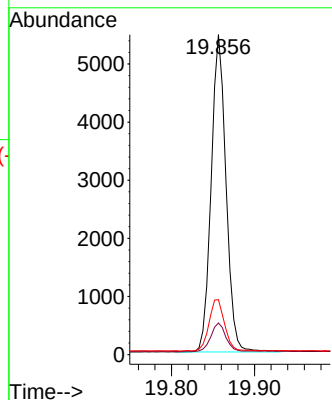
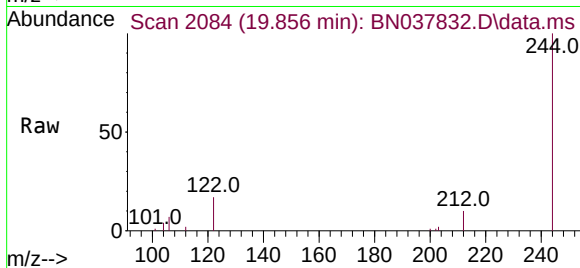




#31
Terphenyl-d14
Concen: 0.342 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

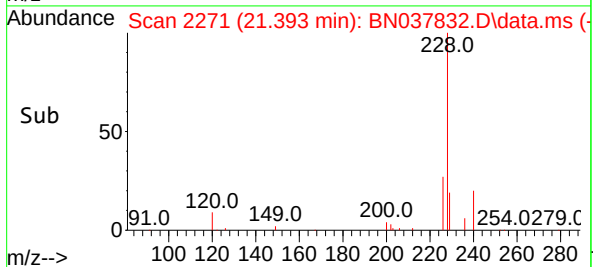
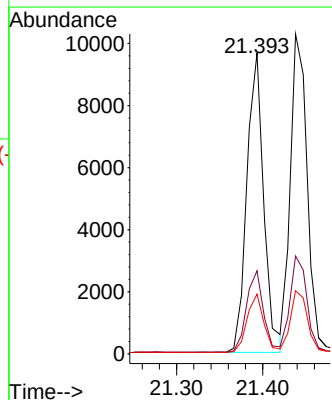
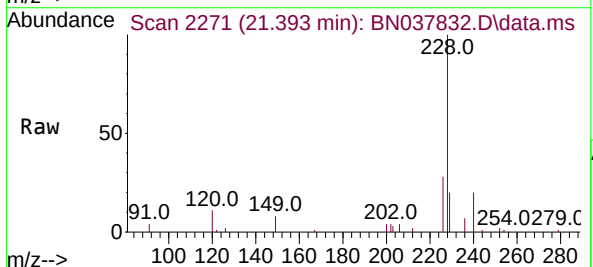
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

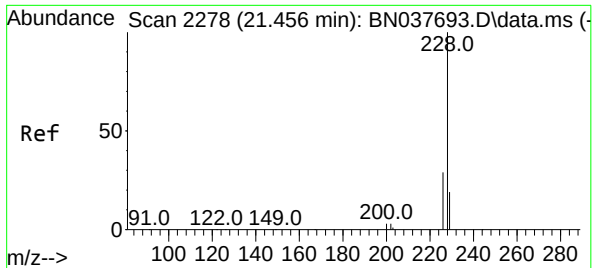
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.9	7.5	11.3
122	17.2	13.2	19.8



#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	Ratio	Lower	Upper
228	100		
226	27.6	22.2	33.2
229	19.9	15.8	23.6

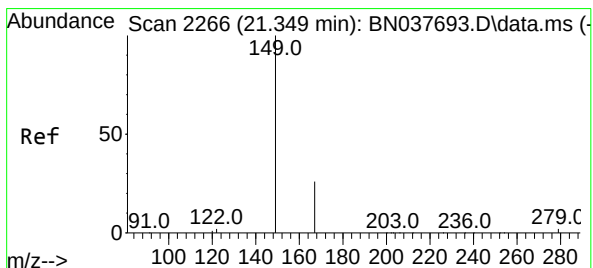
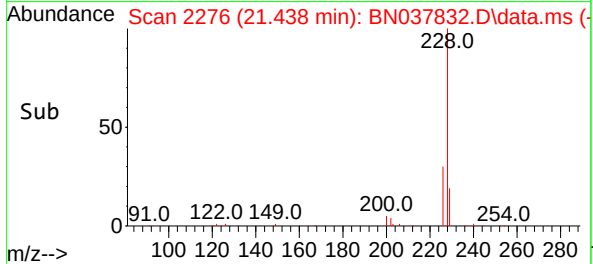
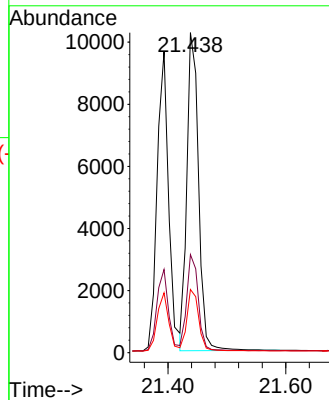
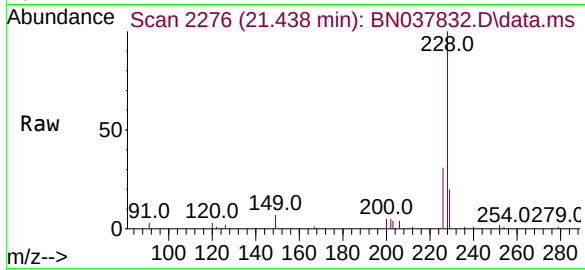




#33
Chrysene
Concen: 0.386 ng
RT: 21.438 min Scan# 211
Delta R.T. -0.018 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

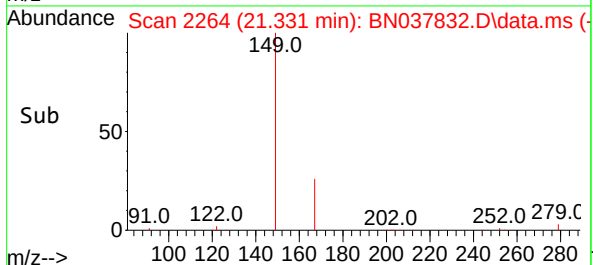
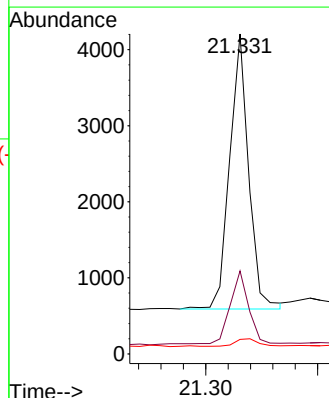
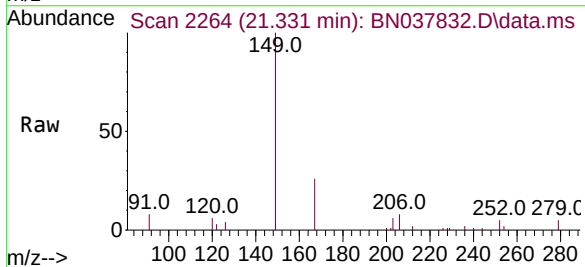
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

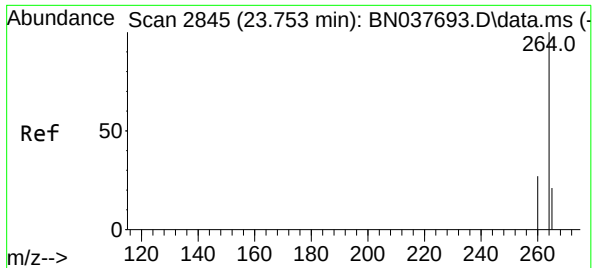
Tgt Ion:	228	Resp:	14113
Ion Ratio	Lower	Upper	
228	100		
226	30.6	23.5	35.3
229	19.7	15.9	23.9



#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:	149	Resp:	4249
Ion Ratio	Lower	Upper	
149	100		
167	25.7	20.8	31.2
279	3.2	3.3	4.9#

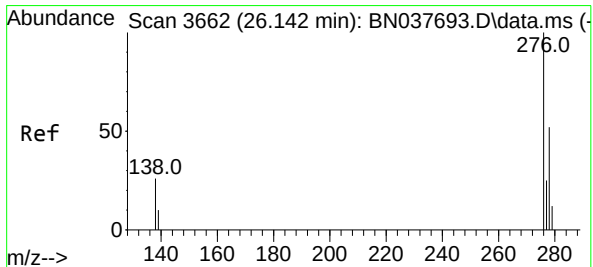
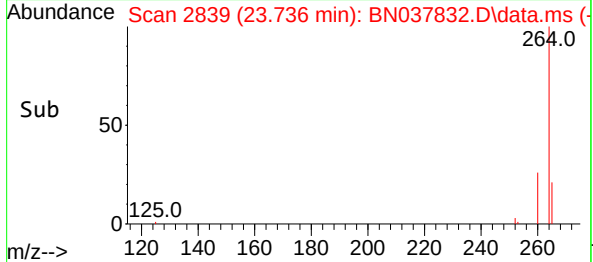
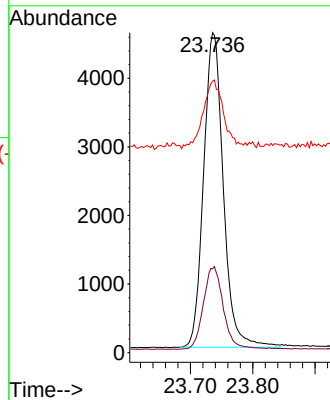
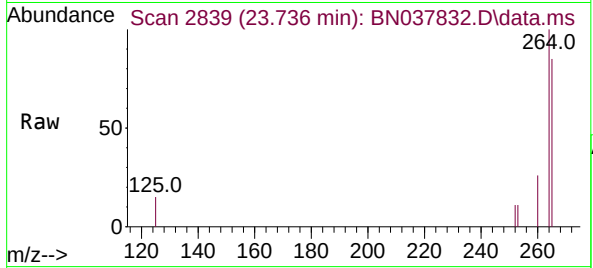




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 2845
Delta R.T. -0.018 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

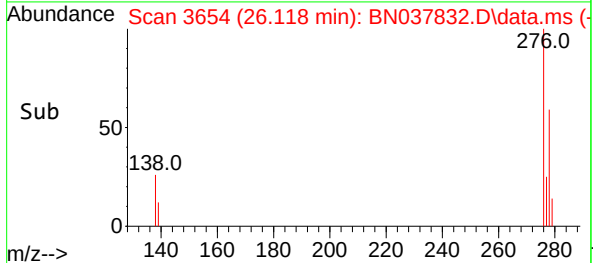
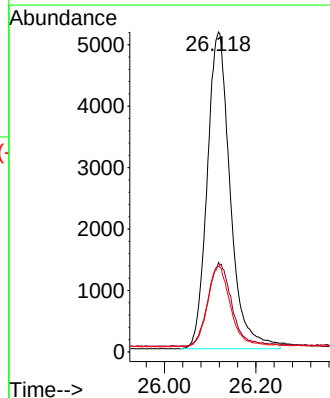
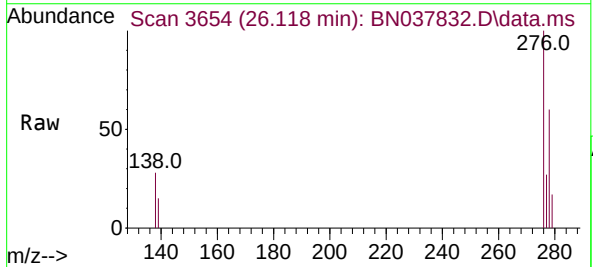
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

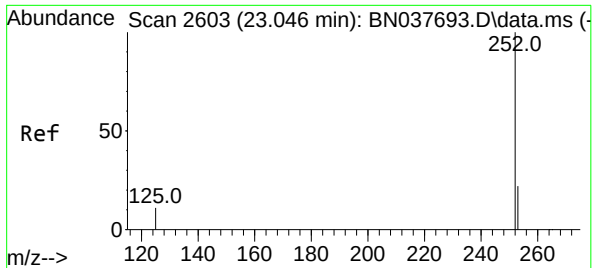
Tgt Ion:	264	Resp:	10066
Ion Ratio	Lower	Upper	
264	100		
260	26.2	21.8	32.8
265	84.9	39.4	59.2



#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	Resp:	18036
Ion Ratio	Lower	Upper	
276	100		
138	27.1	21.9	32.9
277	25.3	20.1	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

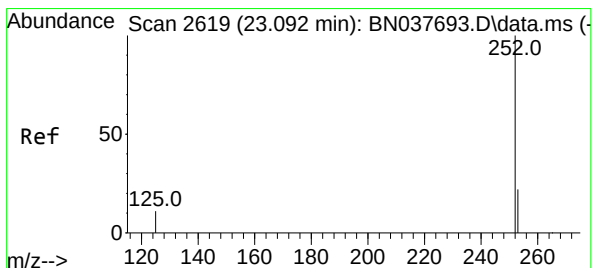
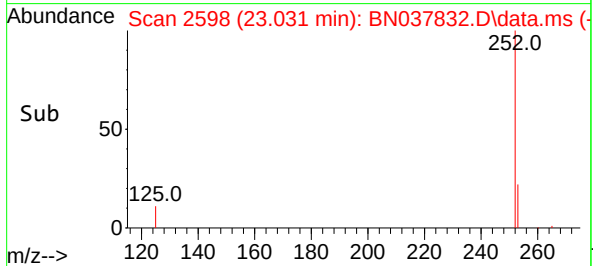
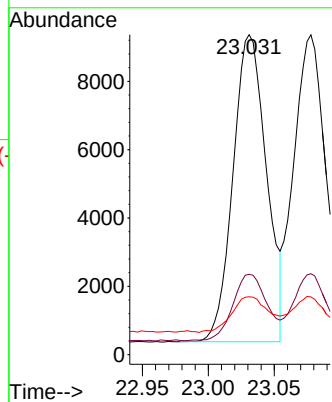
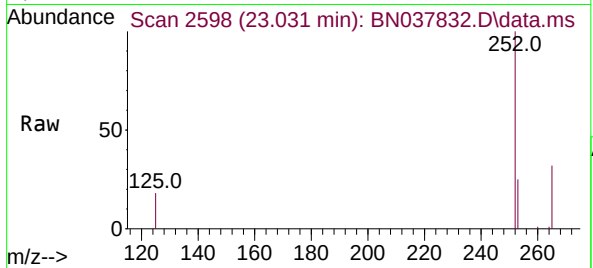
Tgt Ion:252 Resp: 15833

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

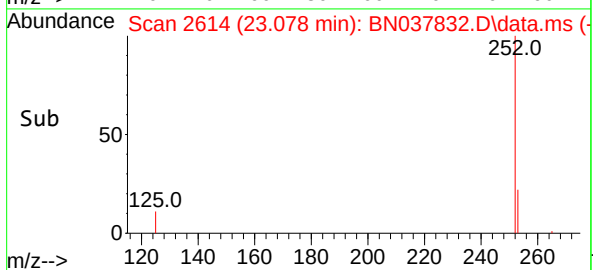
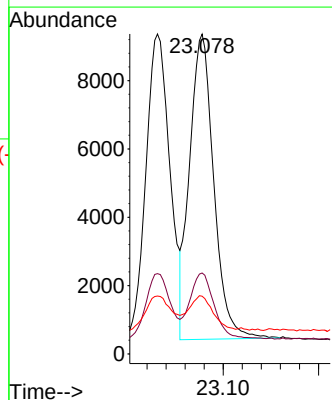
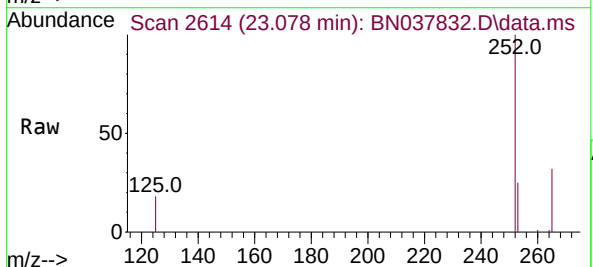
Tgt Ion:252 Resp: 15748

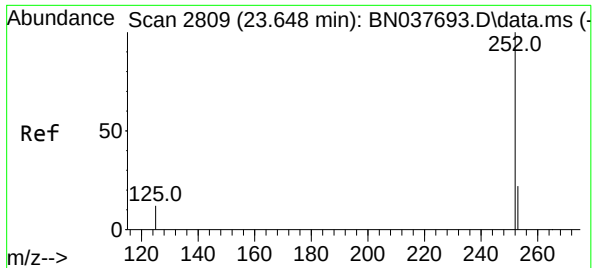
Ion Ratio Lower Upper

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

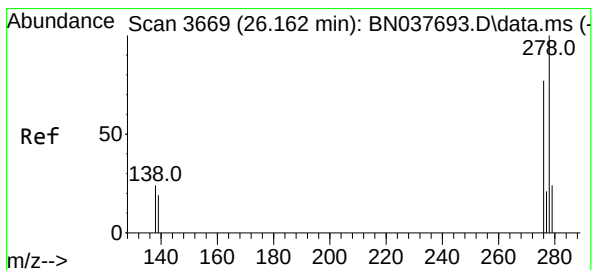
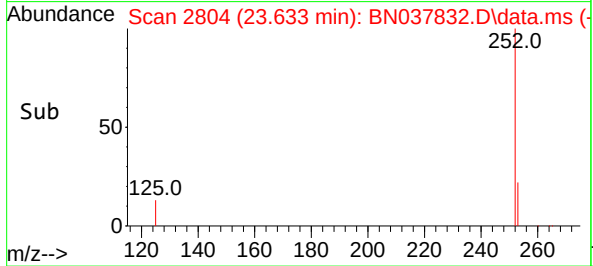
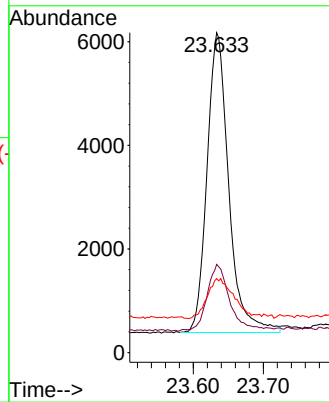
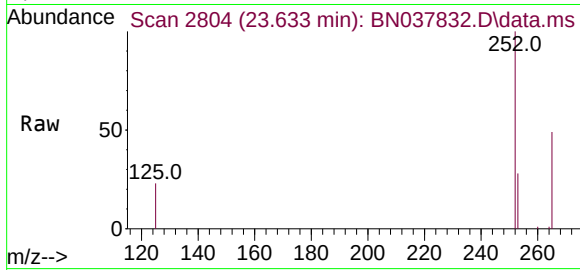
Tgt Ion:252 Resp: 12481

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

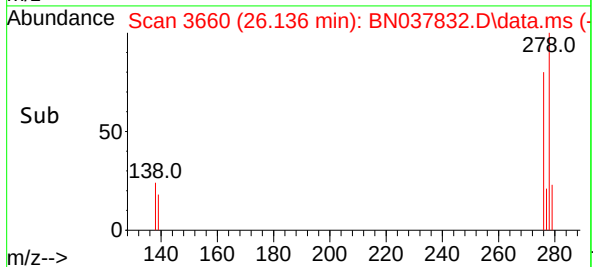
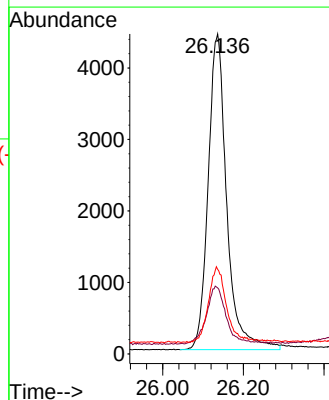
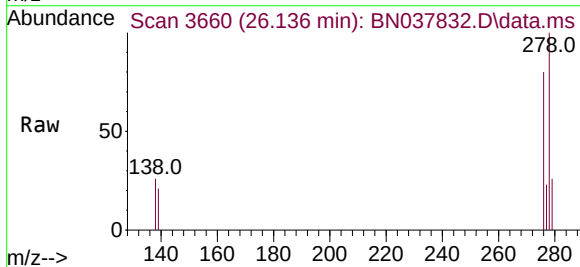
Tgt Ion:278 Resp: 14128

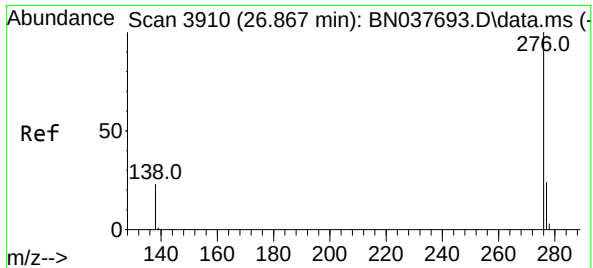
Ion Ratio Lower Upper

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

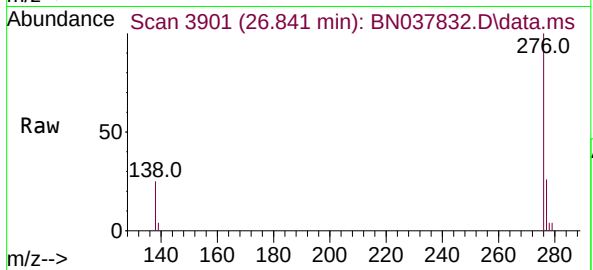
Acq: 20 Sep 2025 02:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



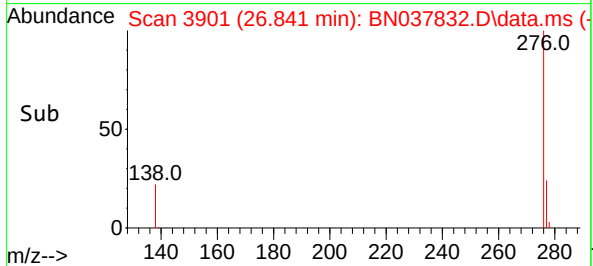
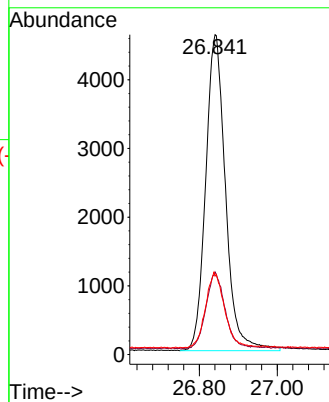
Tgt Ion:276 Resp: 16240

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: Alliance Contract: AECO15
 Lab Code: ACE SDG No.: Q3127
 Instrument ID: BNA_N Calibration Date/Time: 09/20/2025 11:39
 Lab File ID: BN037847.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	0.470		-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

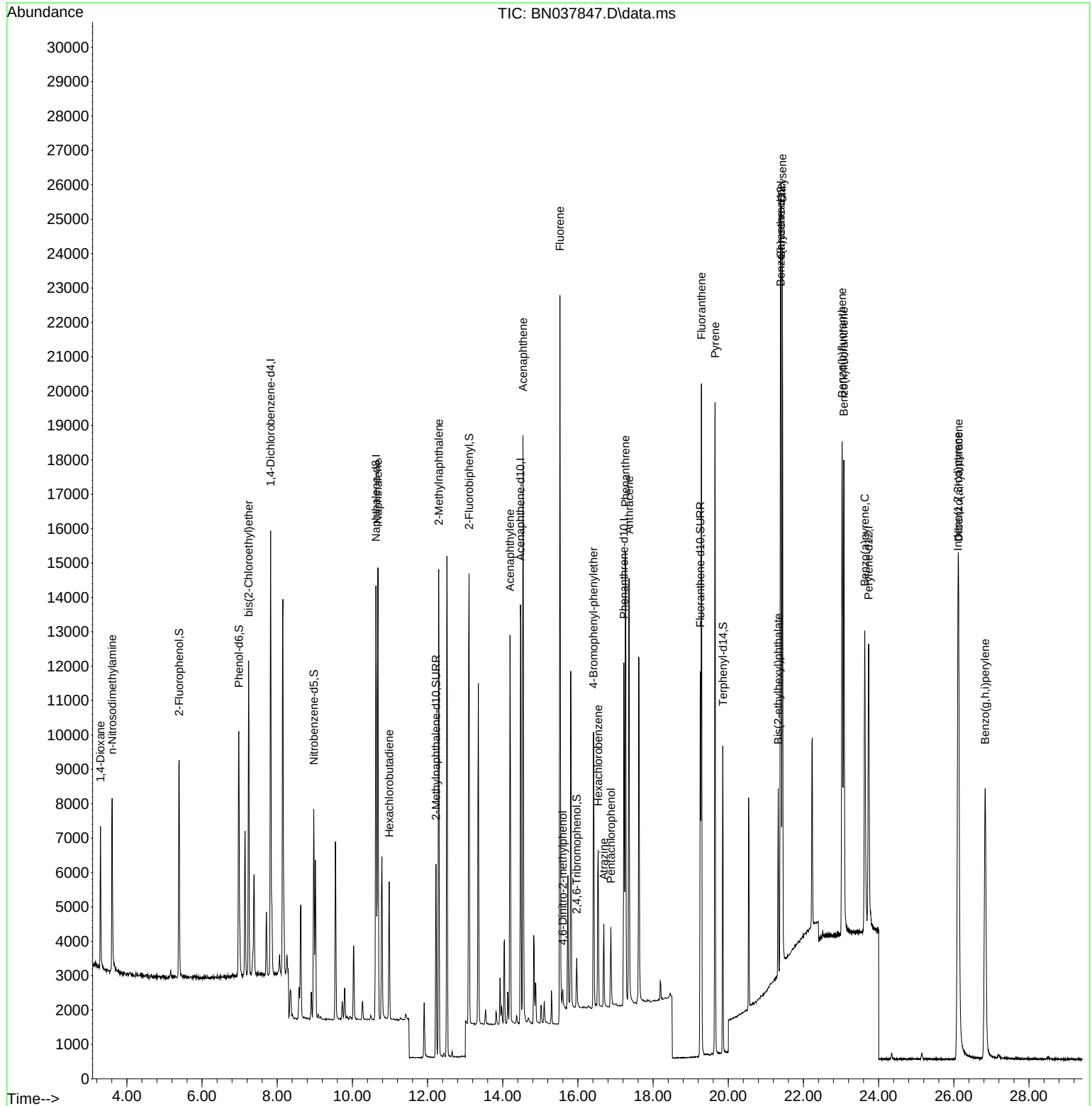
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	6137	0.400	ng	-0.01
7) Naphthalene-d8	10.626	136	16197	0.400	ng	-0.02
13) Acenaphthene-d10	14.473	164	7238	0.400	ng	-0.02
19) Phenanthrene-d10	17.223	188	13073	0.400	ng	-0.01
29) Chrysene-d12	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						
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

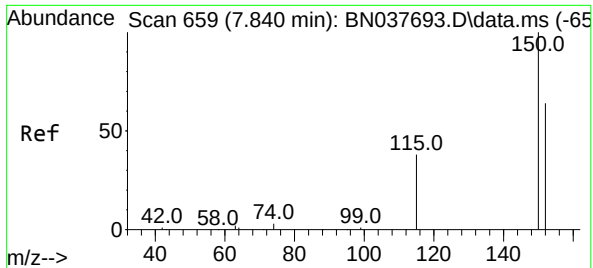
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

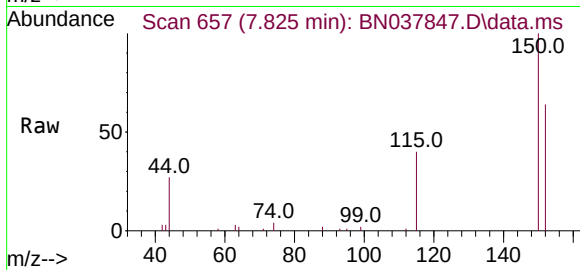
Quant Time: Sep 22 00:38:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



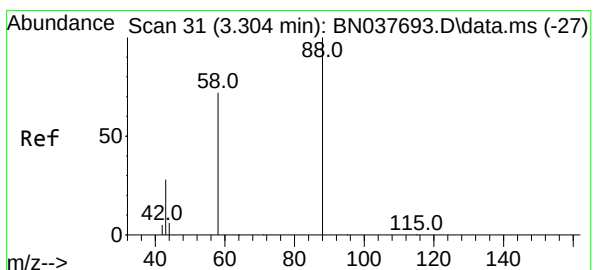
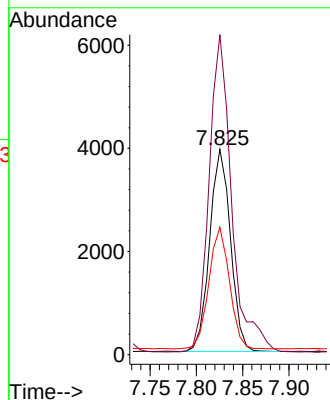
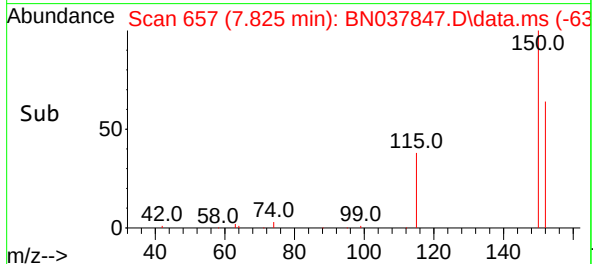


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.825 min Scan# 61
 Delta R.T. -0.015 min
 Lab File: BN037847.D
 Acq: 20 Sep 2025 11:39

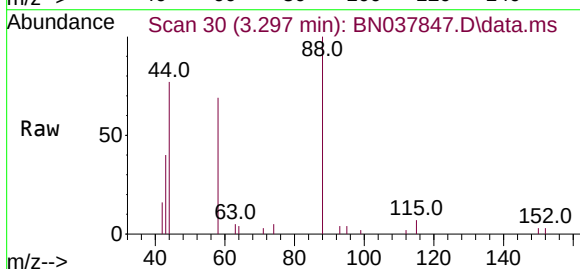
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC



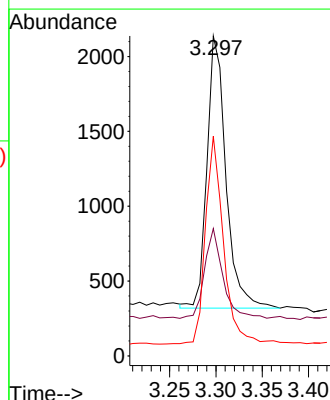
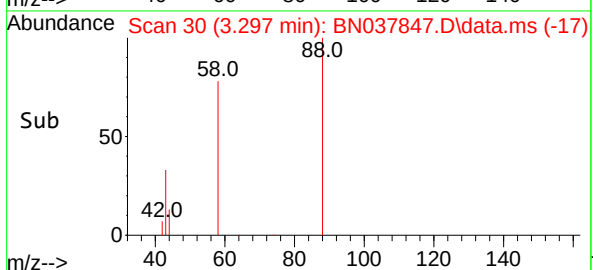
Tgt Ion:152 Resp: 6137
 Ion Ratio Lower Upper
 152 100
 150 155.9 124.5 186.7
 115 62.0 49.2 73.8



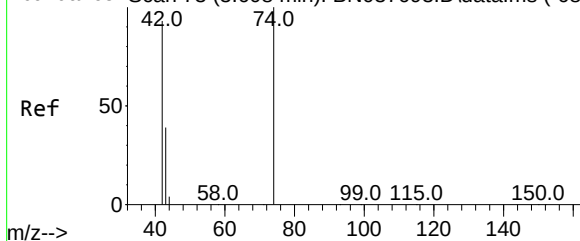
#2
 1,4-Dioxane
 Concen: 0.406 ng
 RT: 3.297 min Scan# 30
 Delta R.T. -0.007 min
 Lab File: BN037847.D
 Acq: 20 Sep 2025 11:39



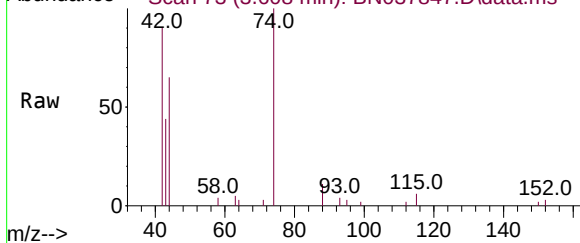
Tgt Ion: 88 Resp: 2596
 Ion Ratio Lower Upper
 88 100
 43 31.8 26.8 40.2
 58 72.9 61.9 92.9



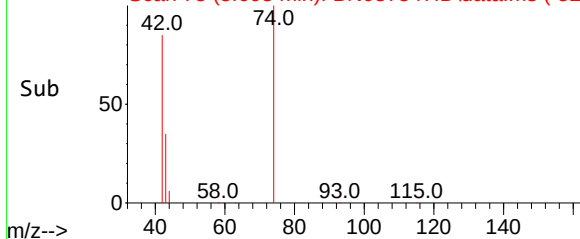
Abundance Scan 73 (3.608 min): BN037693.D\data.ms (-68)



Abundance Scan 73 (3.608 min): BN037847.D\data.ms



Abundance Scan 73 (3.608 min): BN037847.D\data.ms (-52)



#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

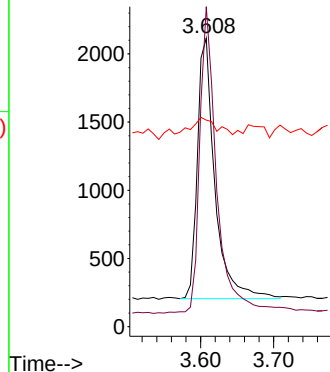
Ion Ratio Lower Upper

42 100

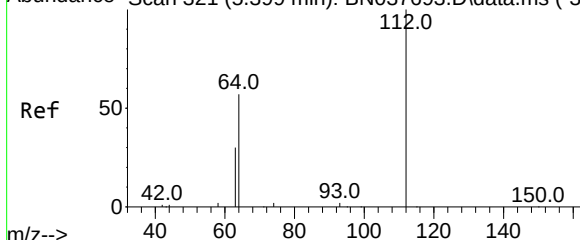
74 116.1 86.0 129.0

44 8.6 8.4 12.6

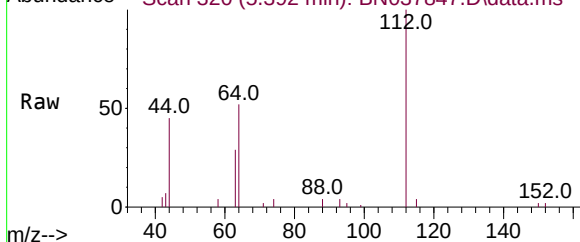
Abundance



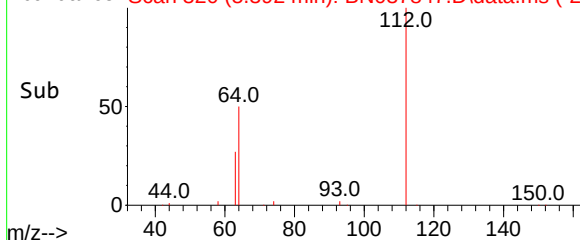
Abundance Scan 321 (5.399 min): BN037693.D\data.ms (-30)



Abundance Scan 320 (5.392 min): BN037847.D\data.ms



Abundance Scan 320 (5.392 min): BN037847.D\data.ms (-29)



#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

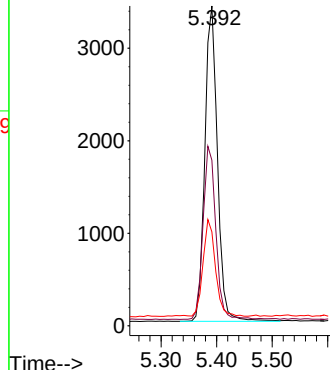
Ion Ratio Lower Upper

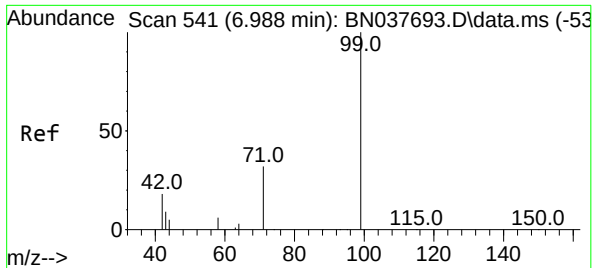
112 100

64 55.7 44.9 67.3

63 29.9 24.7 37.1

Abundance

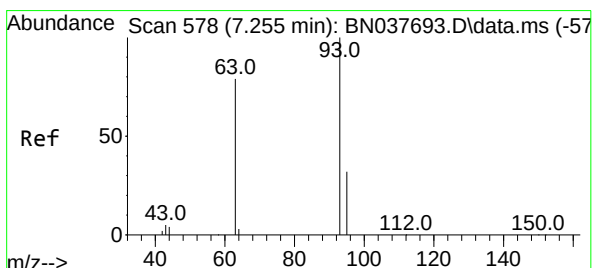
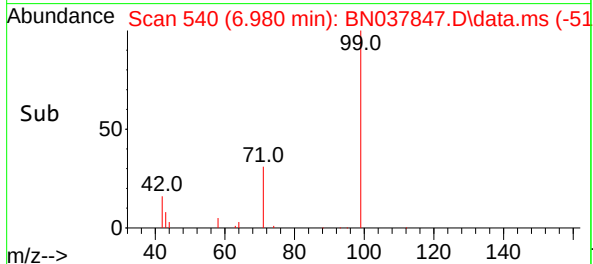
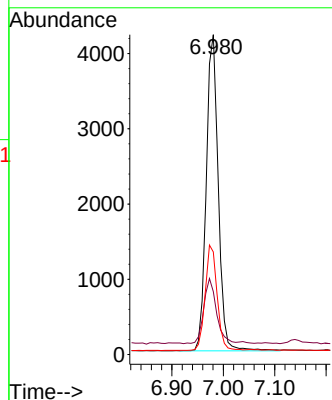
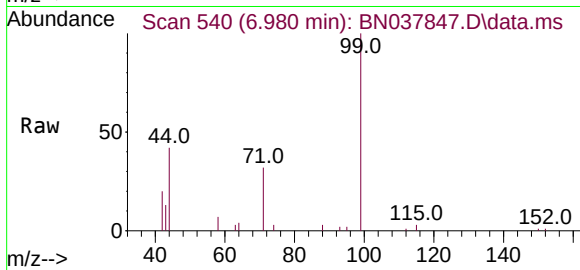




#5
Phenol-d6
Concen: 0.373 ng
RT: 6.980 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

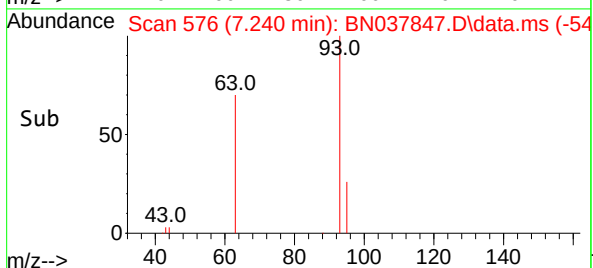
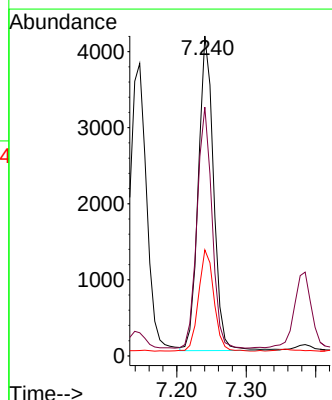
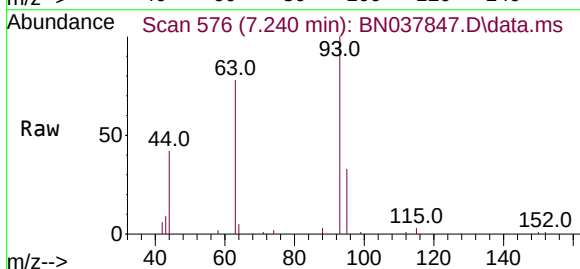
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

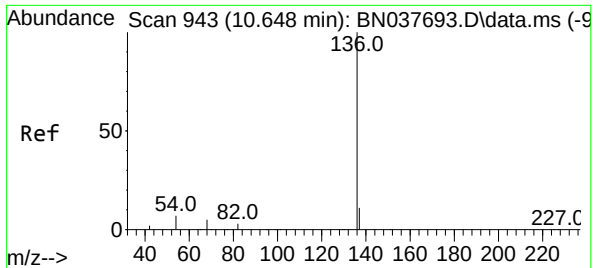
Tgt Ion: 99 Resp: 6805
Ion Ratio Lower Upper
99 100
42 21.6 16.6 24.8
71 33.1 26.7 40.1



#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

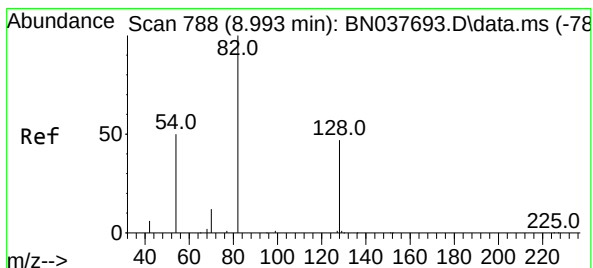
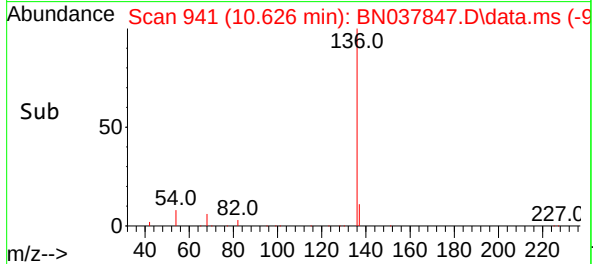
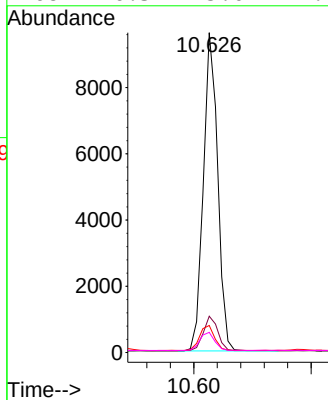
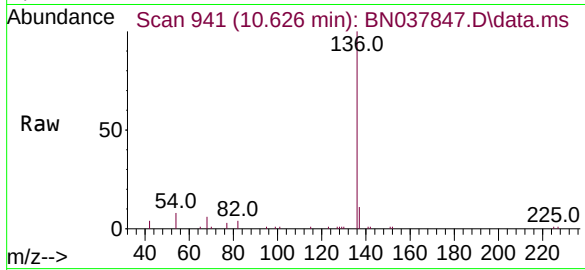




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. -0.021 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

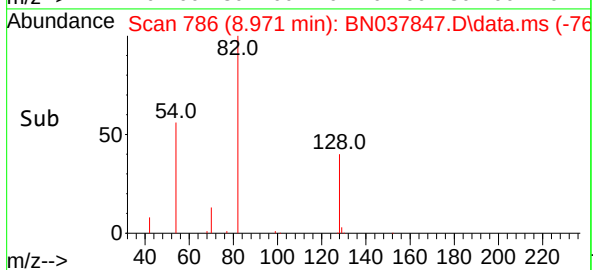
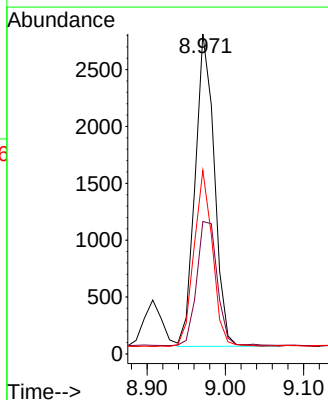
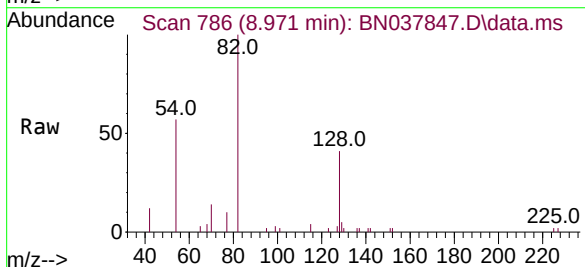
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

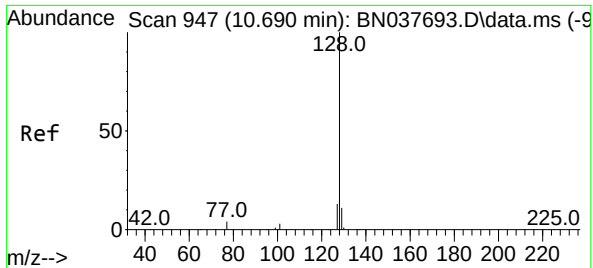
Tgt Ion:136	Resp:	16197
Ion Ratio	Lower	Upper
136	100	
137	11.4	9.1 13.7
54	8.5	6.3 9.5
68	6.3	5.0 7.4



#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

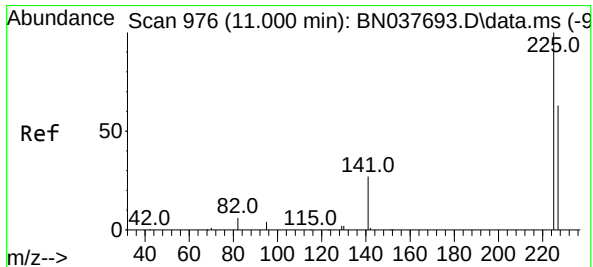
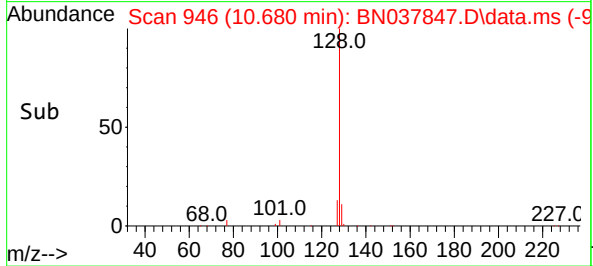
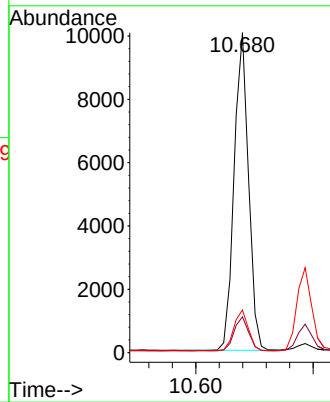
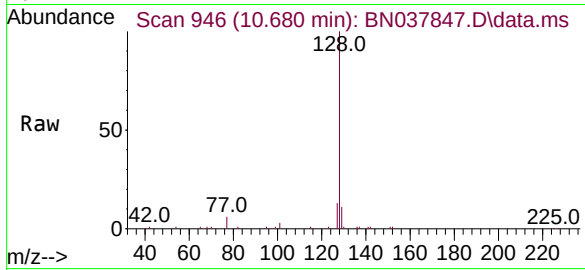




#9
Naphthalene
Concen: 0.384 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

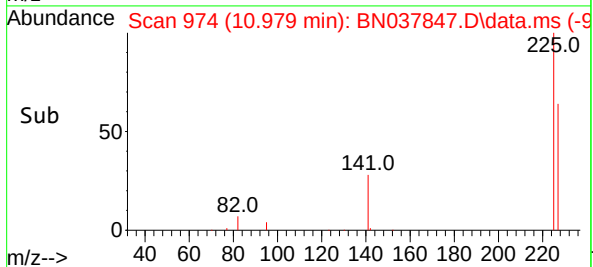
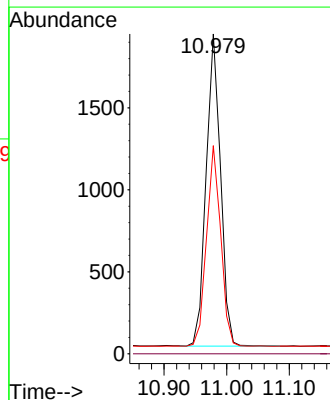
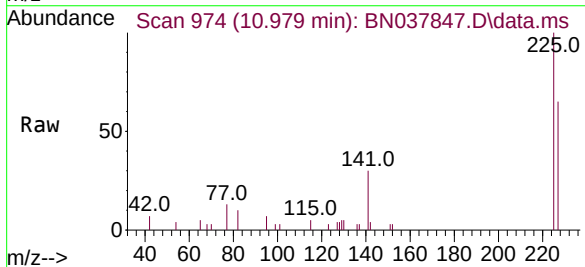
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

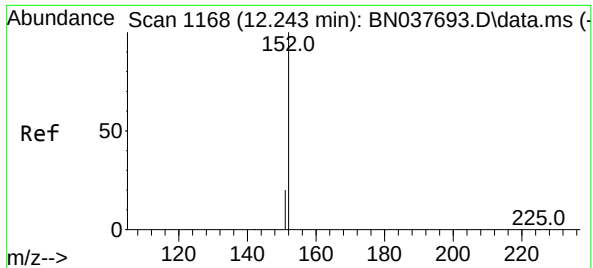
Tgt Ion:128 Resp: 17021
Ion Ratio Lower Upper
128 100
129 11.2 9.1 13.7
127 13.3 10.9 16.3



#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

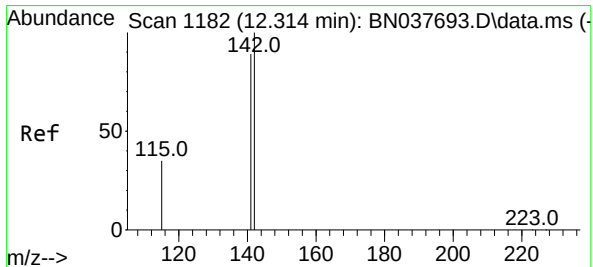
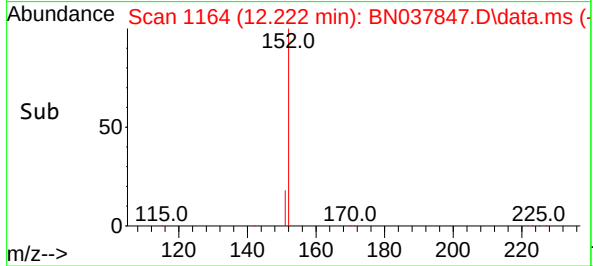
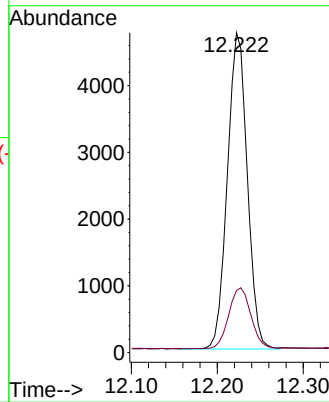
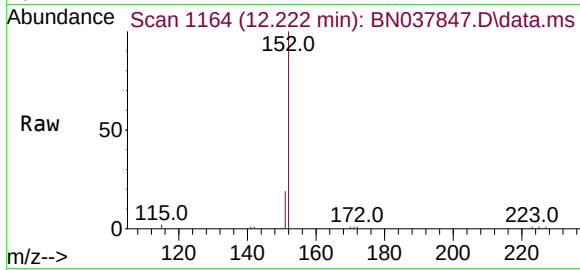




#11
2-Methylnaphthalene-d10
Concen: 0.355 ng
RT: 12.222 min Scan# 1164
Delta R.T. -0.020 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

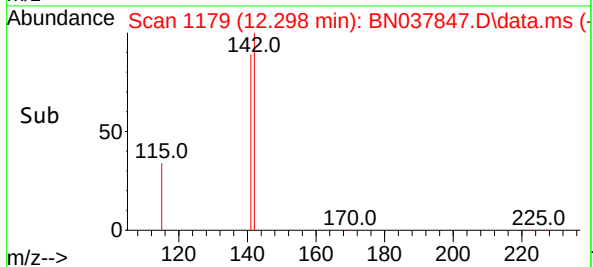
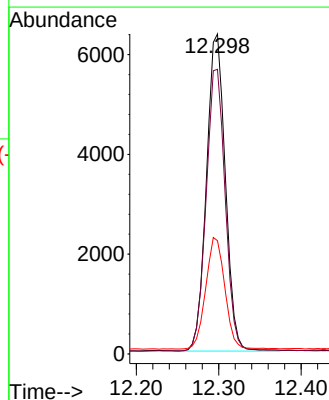
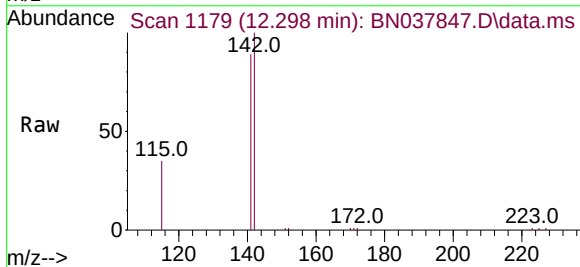
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

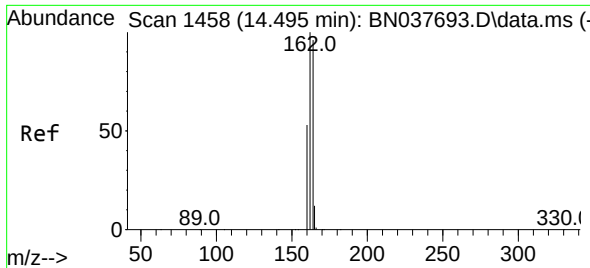
Tgt Ion:152 Resp: 7614
Ion Ratio Lower Upper
152 100
151 21.5 17.0 25.6



#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

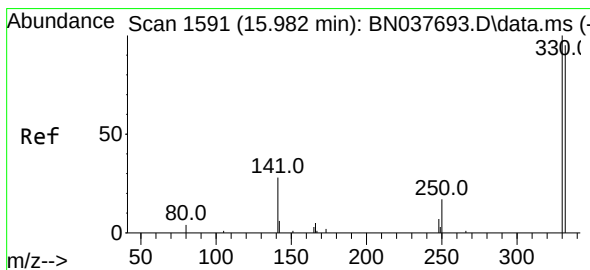
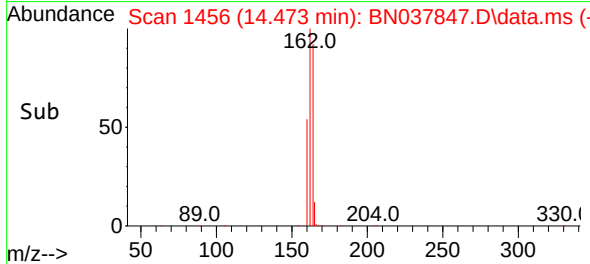
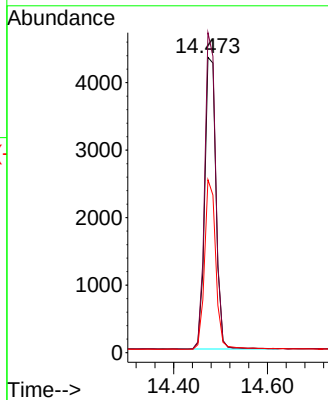
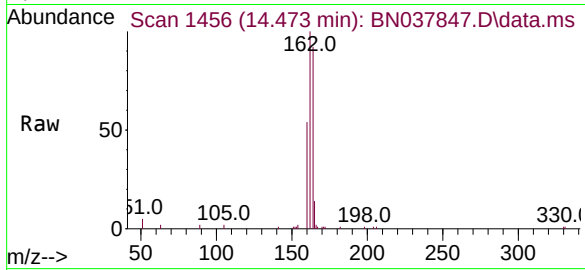




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1458
Delta R.T. -0.022 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

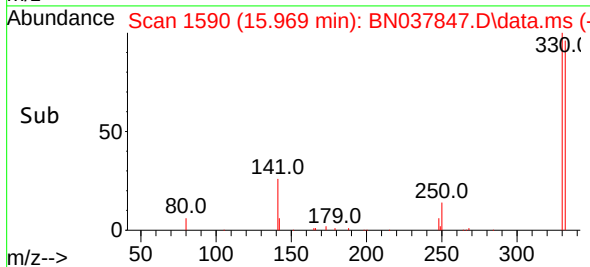
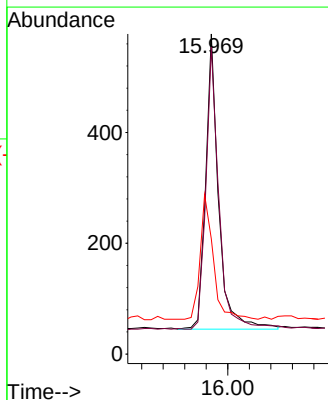
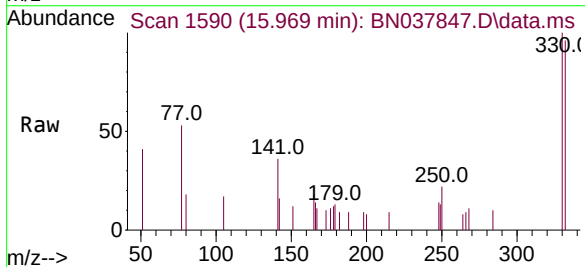
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

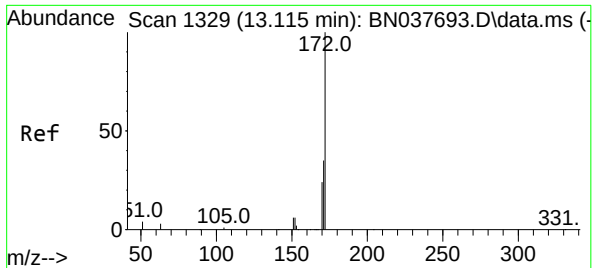
Tgt Ion:164 Resp: 7238
Ion Ratio Lower Upper
164 100
162 108.4 83.1 124.7
160 58.5 44.3 66.5



#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

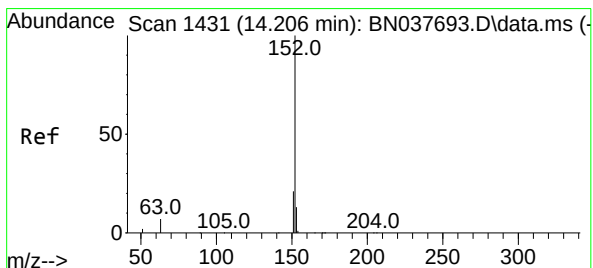
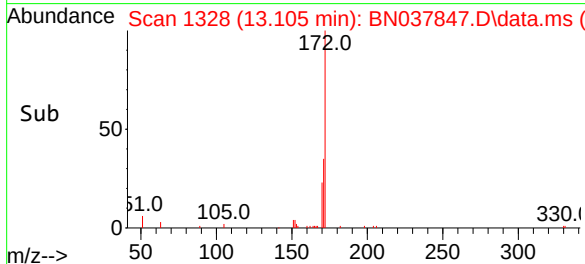
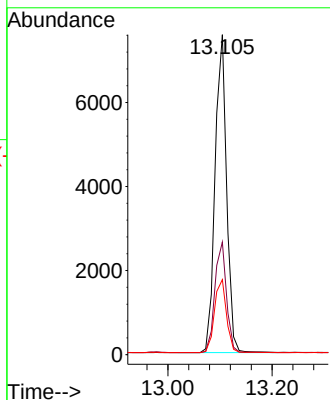
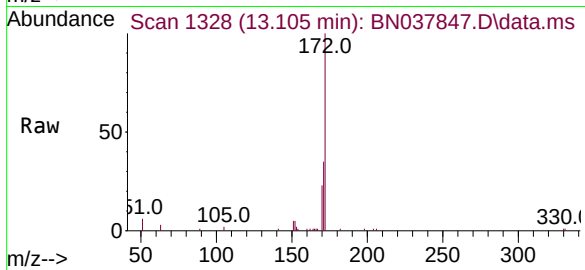




#15
2-Fluorobiphenyl
Concen: 0.384 ng
RT: 13.105 min Scan# 1329
Delta R.T. -0.011 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

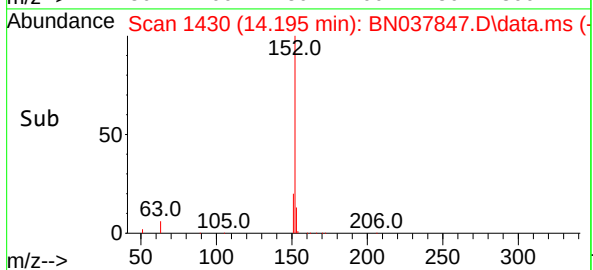
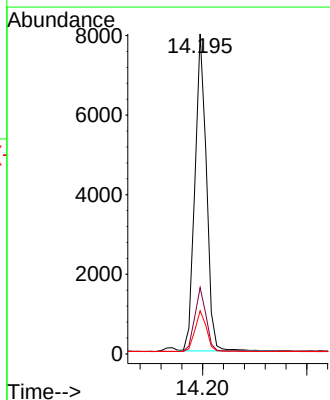
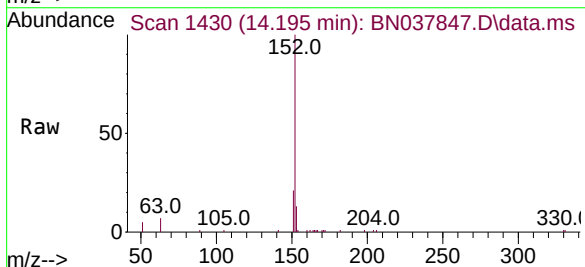
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

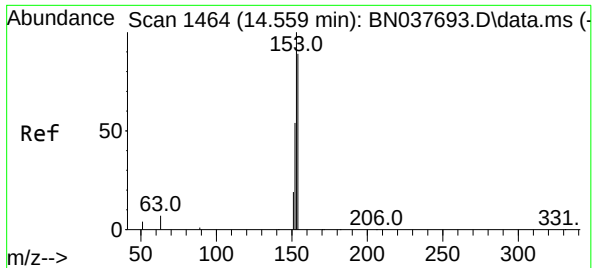
Tgt Ion:	172	Resp:	11631
Ion Ratio	Lower	Upper	
172	100		
171	35.2	28.6	43.0
170	23.5	19.8	29.8



#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:	152	Resp:	12119
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.2	24.2
153	12.9	10.4	15.6

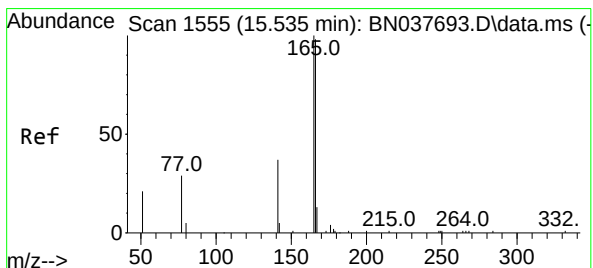
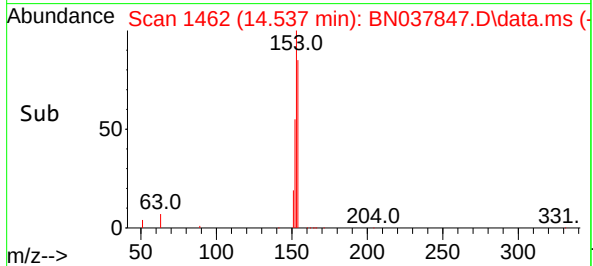
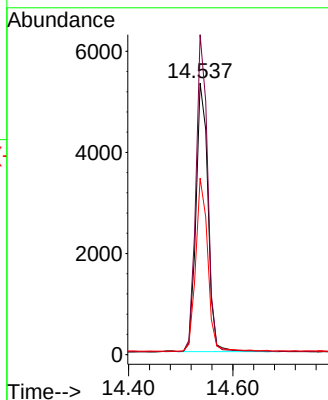
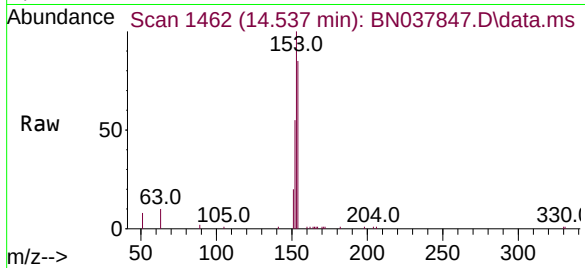




#17
Acenaphthene
Concen: 0.377 ng
RT: 14.537 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

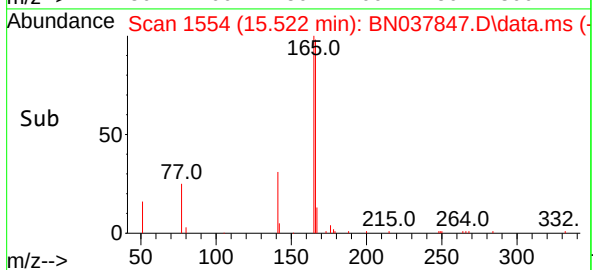
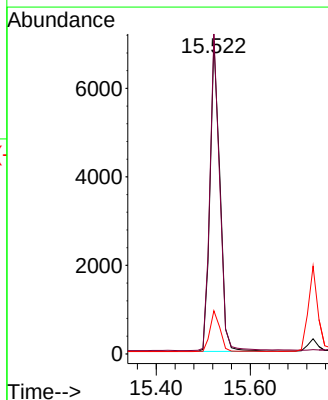
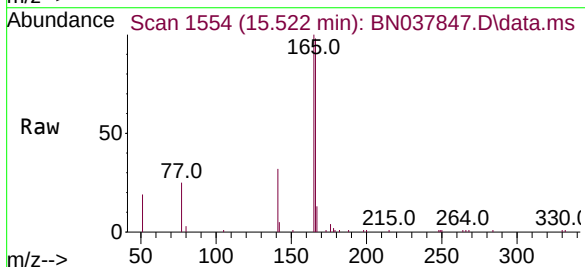
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

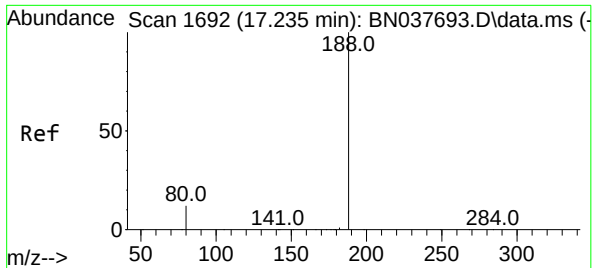
Tgt Ion:154 Resp: 8461
Ion Ratio Lower Upper
154 100
153 115.3 89.8 134.8
152 65.0 50.2 75.2



#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

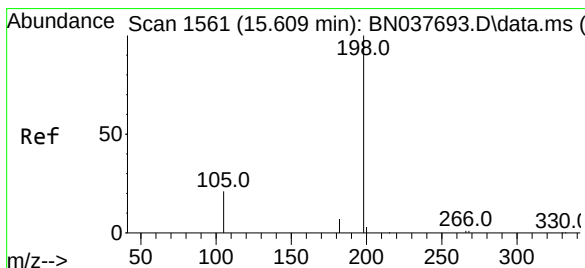
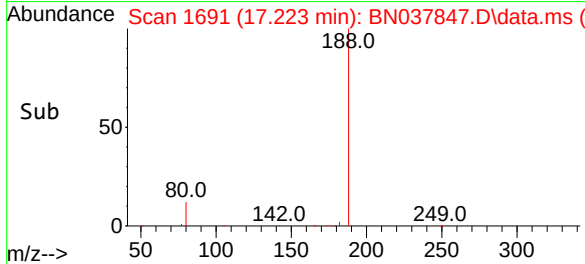
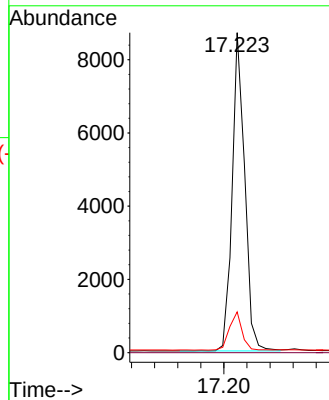
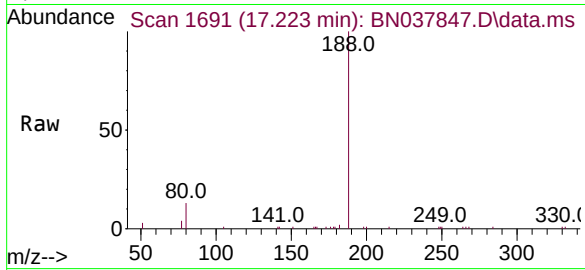




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1692
Delta R.T. -0.013 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

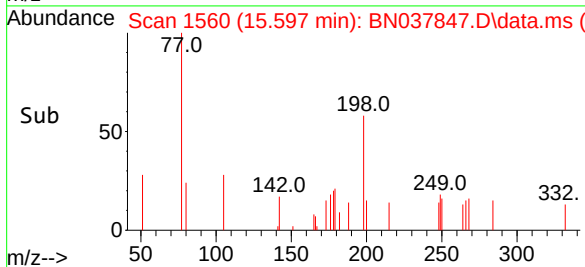
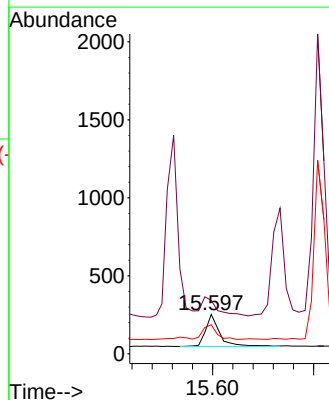
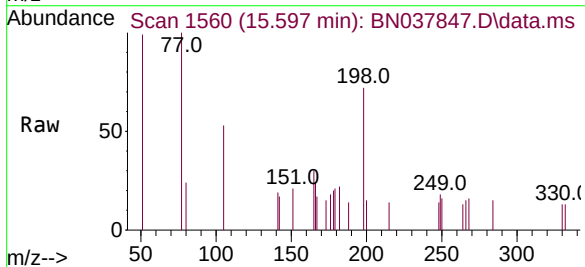
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

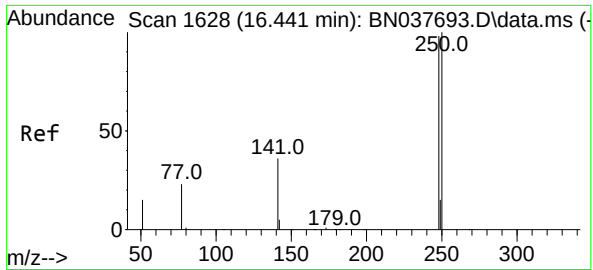
Tgt Ion:188 Resp: 13073
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.7 10.6 15.8



#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

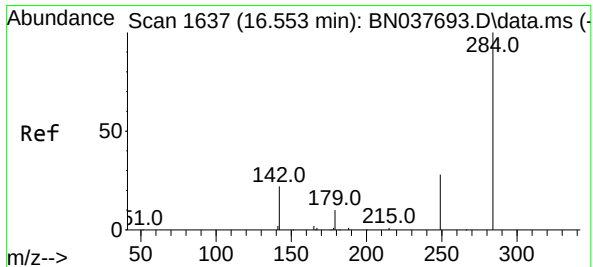
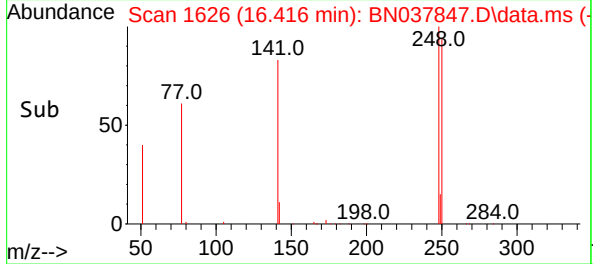
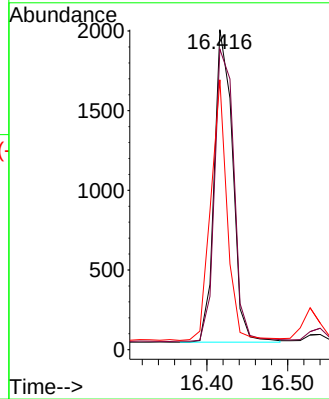
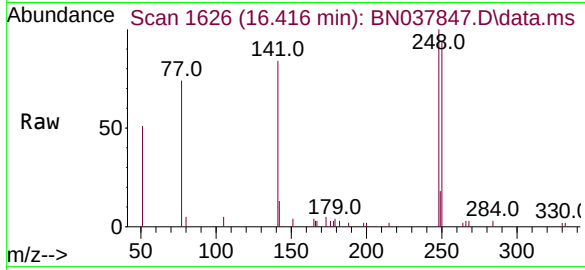




#21
4-Bromophenyl-phenylether
Concen: 0.363 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.025 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

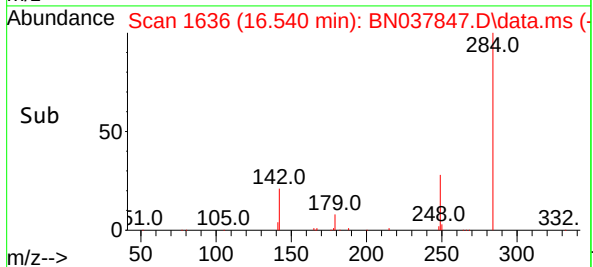
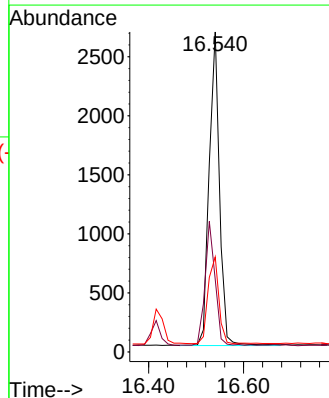
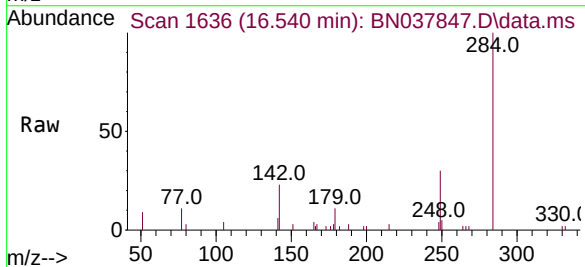
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

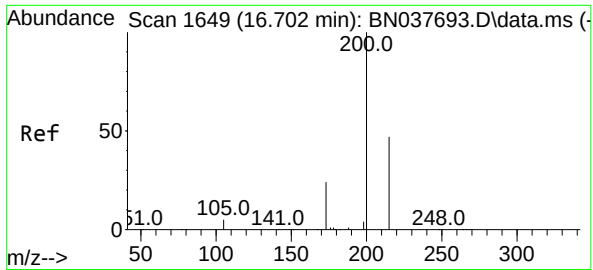
Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.9	81.5	122.3
141	84.3	30.8	46.2



#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	Ratio	Lower	Upper
284	100		
142	38.4	30.9	46.3
249	28.9	24.8	37.2

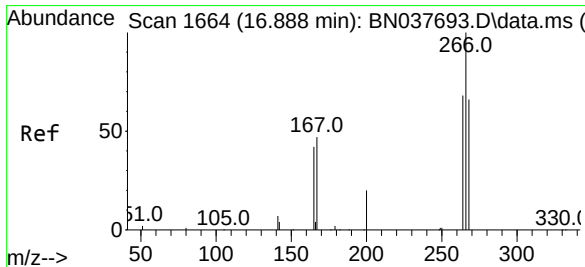
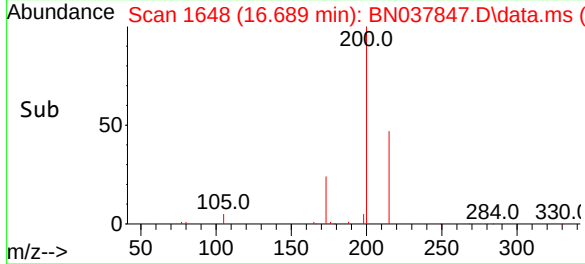
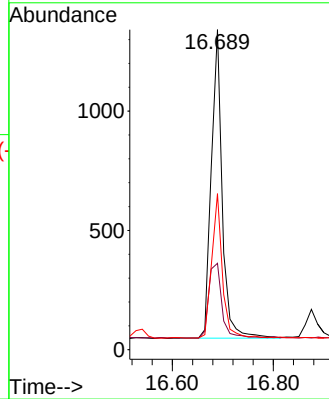
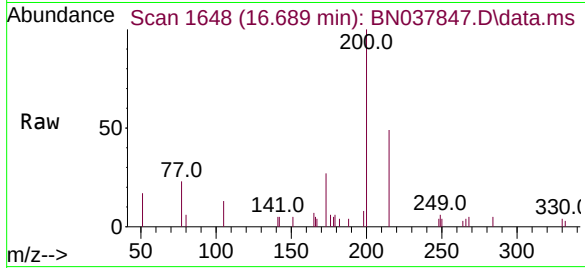




#23
Atrazine
Concen: 0.357 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.013 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

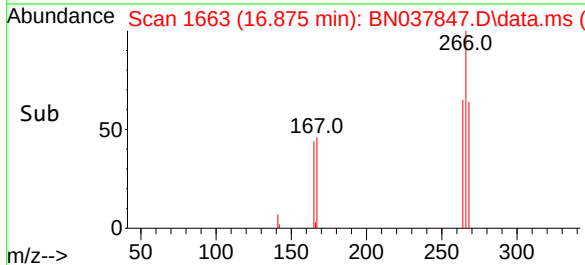
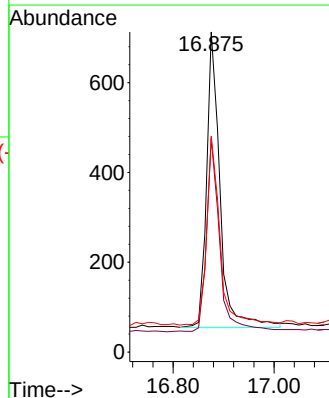
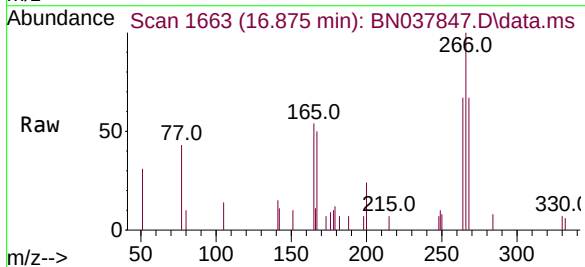
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

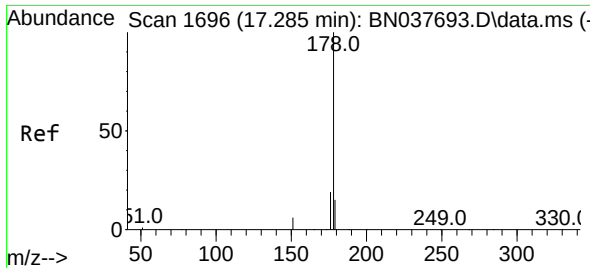
Tgt Ion	Ratio	Lower	Upper
200	100		
173	27.0	21.4	32.2
215	48.7	39.2	58.8



#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

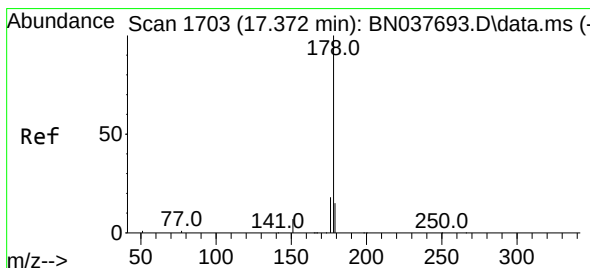
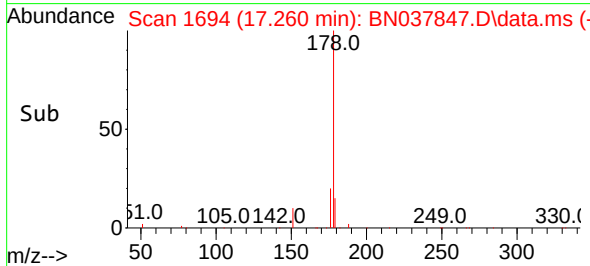
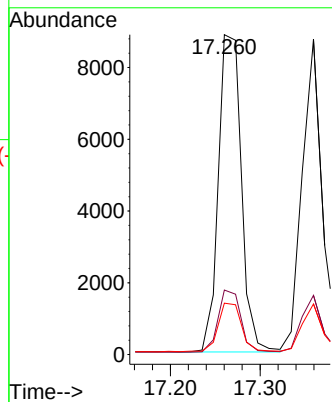
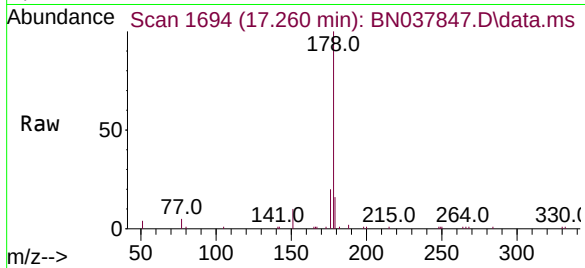




#25
Phenanthrene
Concen: 0.384 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.025 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

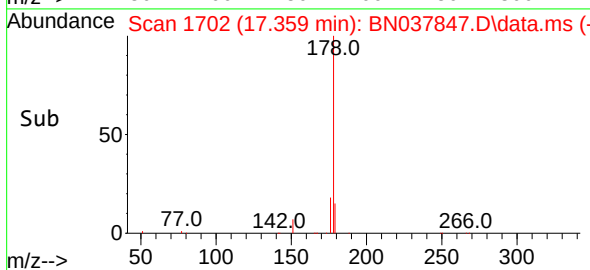
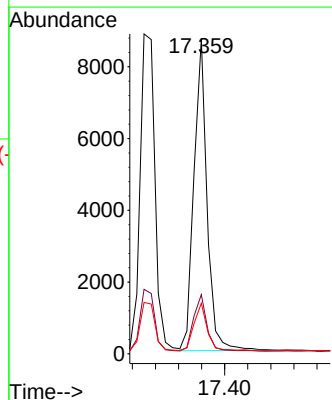
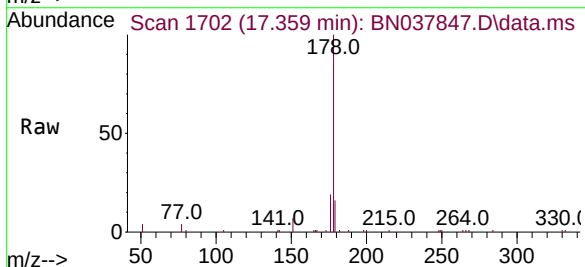
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

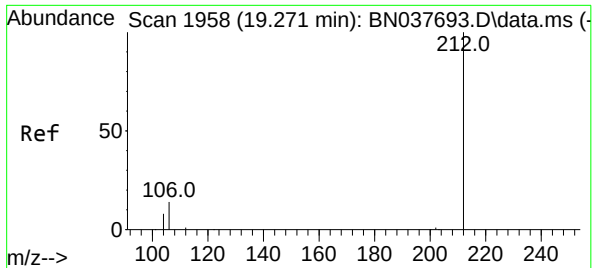
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	15.7	12.2	18.2



#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	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# 19

Delta R.T. -0.014 min

Lab File: BN037847.D

Acq: 20 Sep 2025 11:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

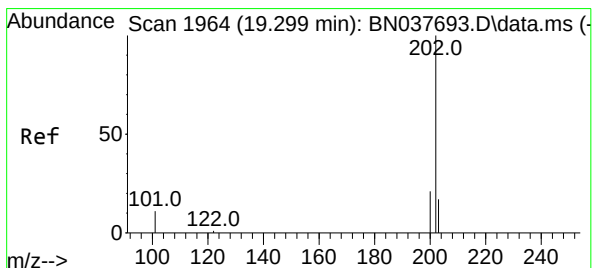
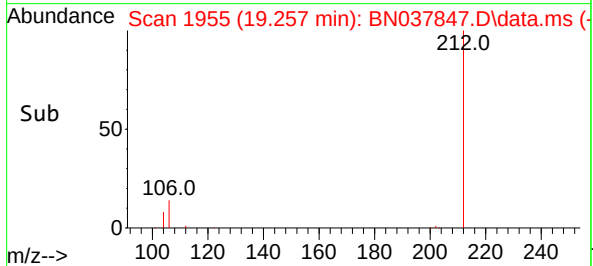
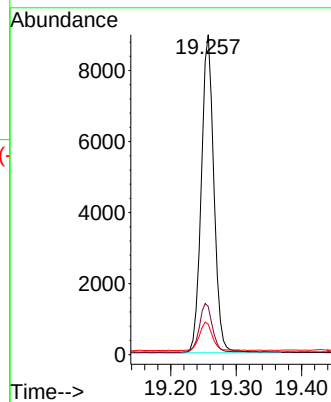
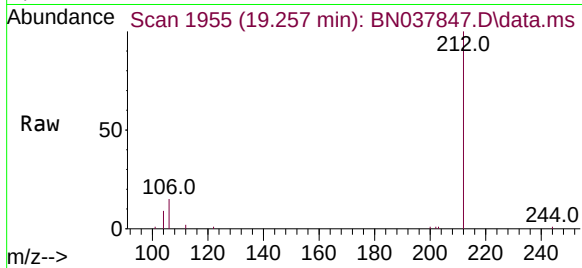
Tgt Ion:212 Resp: 11964

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

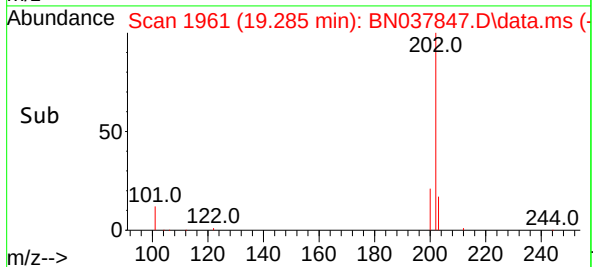
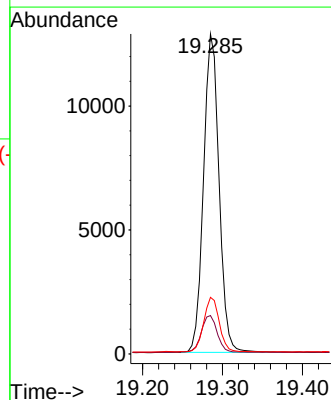
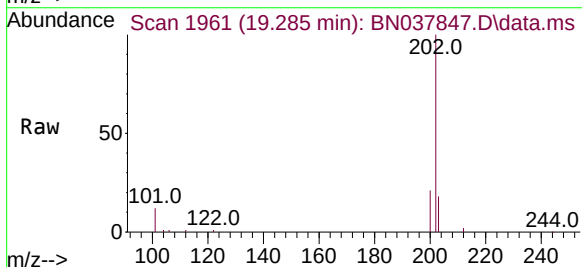
Tgt Ion:202 Resp: 17285

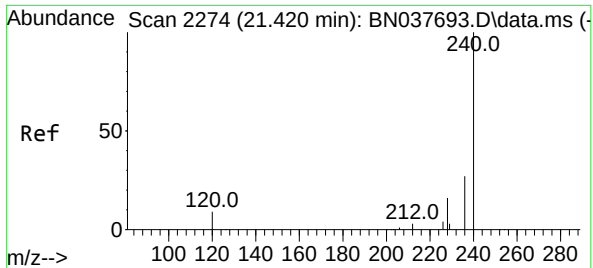
Ion Ratio Lower Upper

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

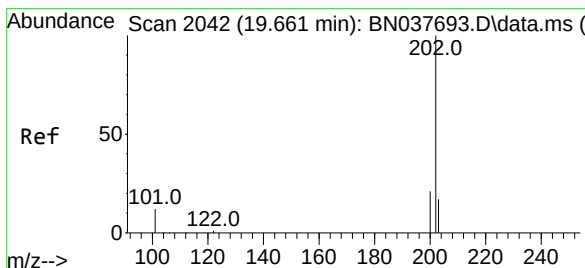
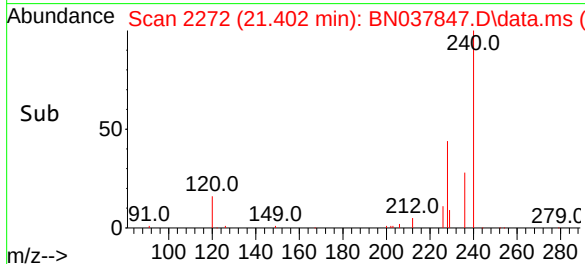
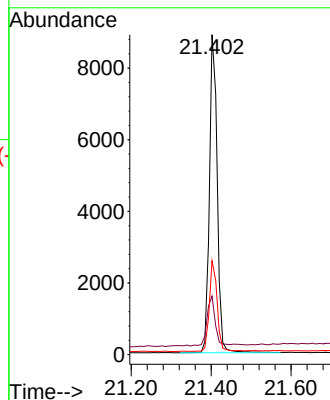
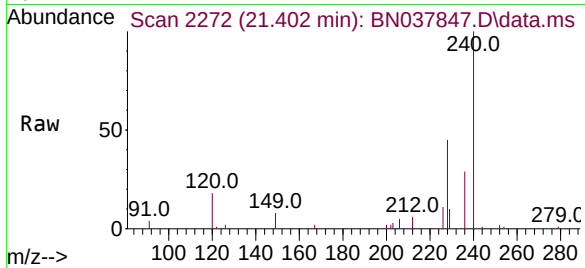
Tgt Ion:240 Resp: 12006

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

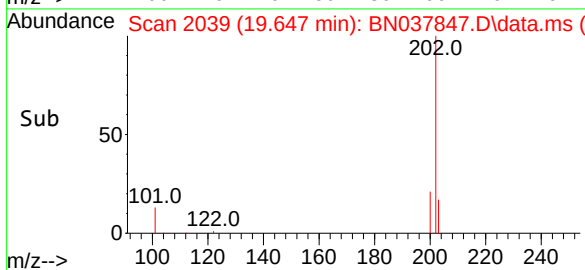
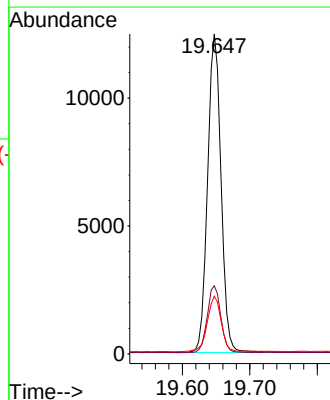
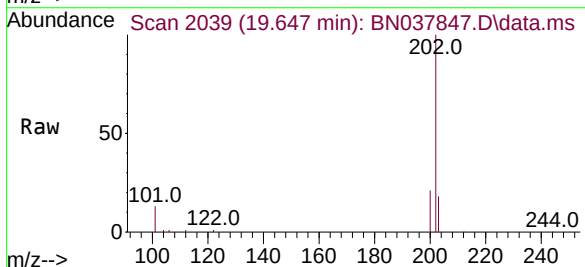
Tgt Ion:202 Resp: 17226

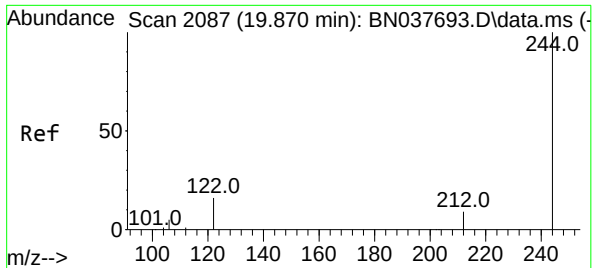
Ion Ratio Lower Upper

202 100

200 21.2 16.8 25.2

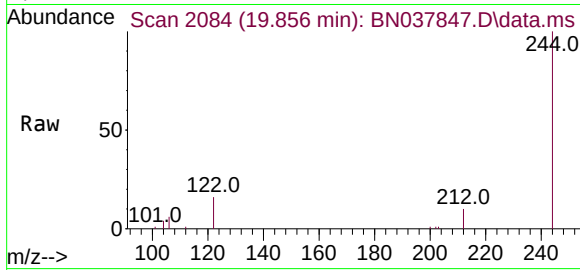
203 17.9 14.3 21.5



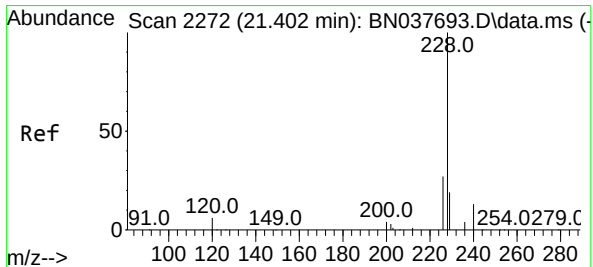
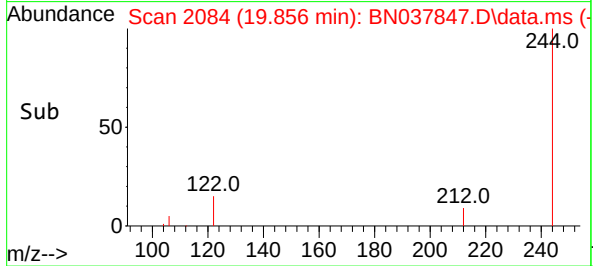
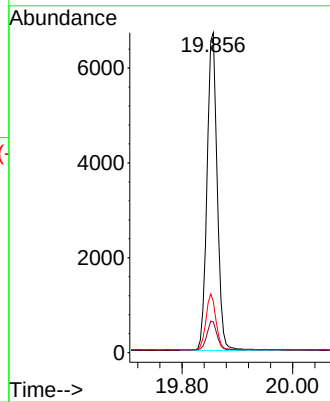


#31
 Terphenyl-d14
 Concen: 0.348 ng
 RT: 19.856 min Scan# 2084
 Delta R.T. -0.014 min
 Lab File: BN037847.D
 Acq: 20 Sep 2025 11:39

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

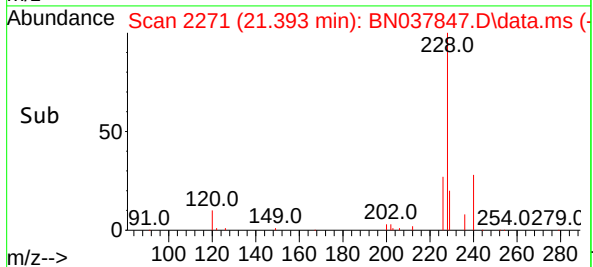
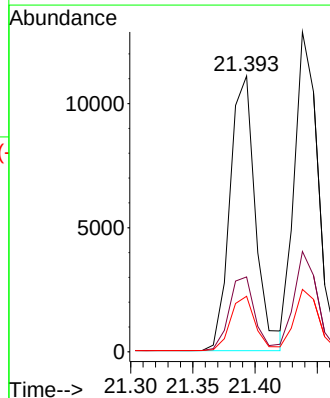
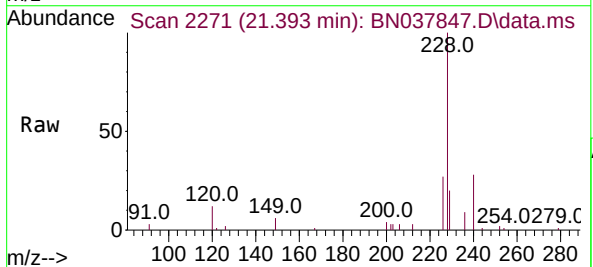


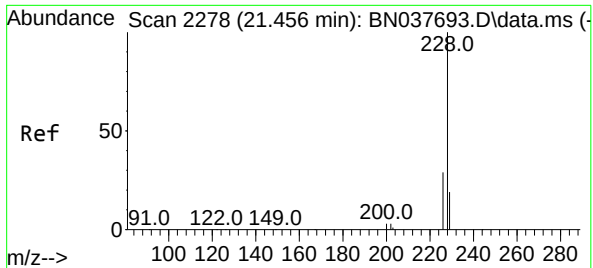
Tgt Ion:244 Resp: 8481
 Ion Ratio Lower Upper
 244 100
 212 9.6 7.5 11.3
 122 16.0 13.2 19.8



#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:228 Resp: 15817
 Ion Ratio Lower Upper
 228 100
 226 27.1 22.2 33.2
 229 20.1 15.8 23.6

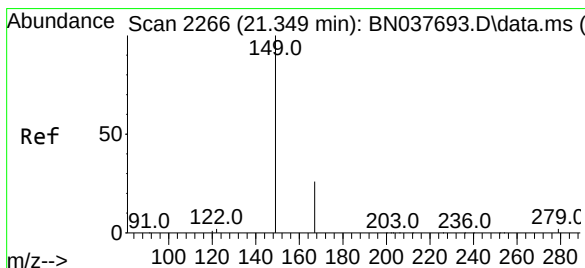
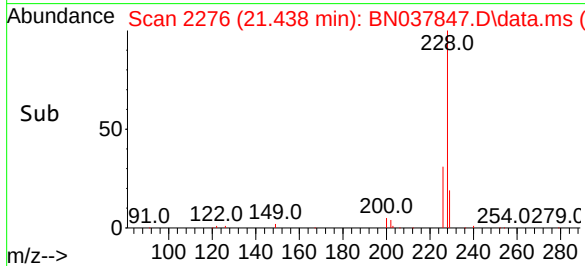
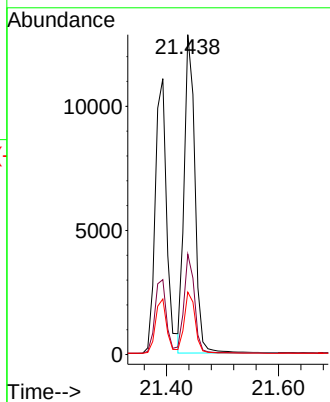
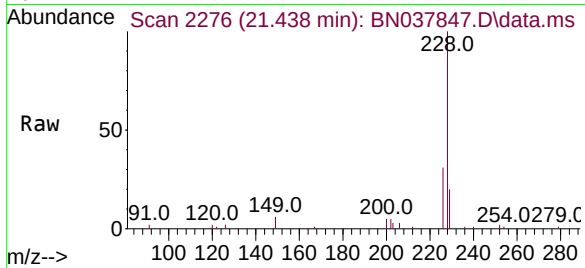




#33
Chrysene
Concen: 0.381 ng
RT: 21.438 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

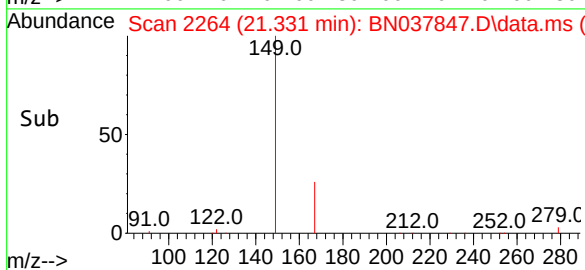
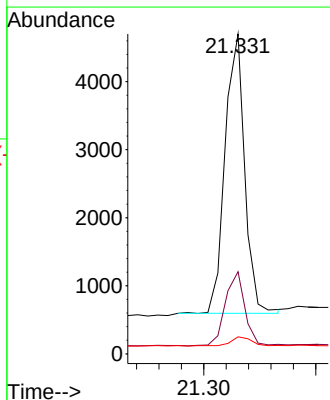
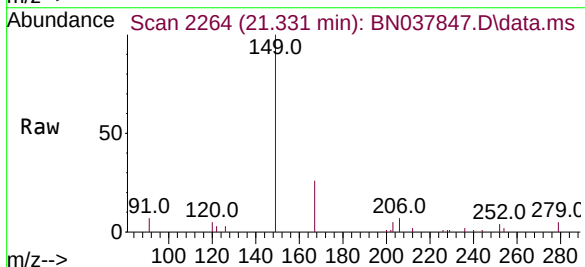
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

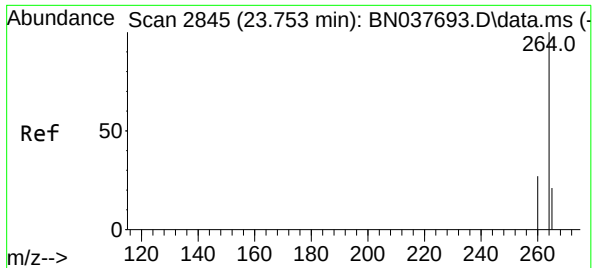
Tgt Ion:	228	Resp:	17106
Ion Ratio	Lower	Upper	
228	100		
226	31.4	23.5	35.3
229	19.5	15.9	23.9



#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:	149	Resp:	4990
Ion Ratio	Lower	Upper	
149	100		
167	26.8	20.8	31.2
279	3.7	3.3	4.9

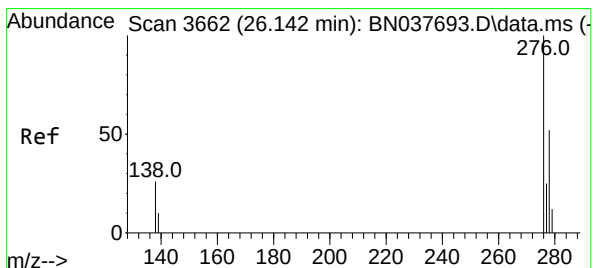
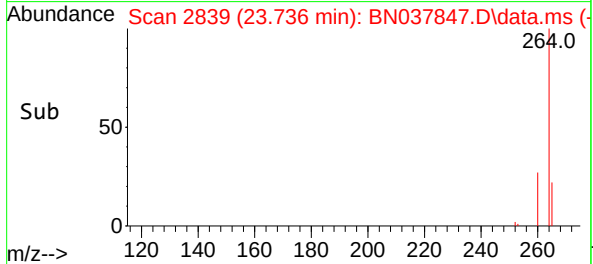
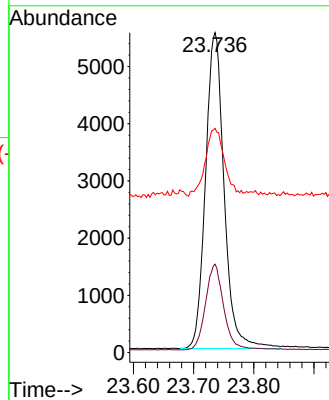
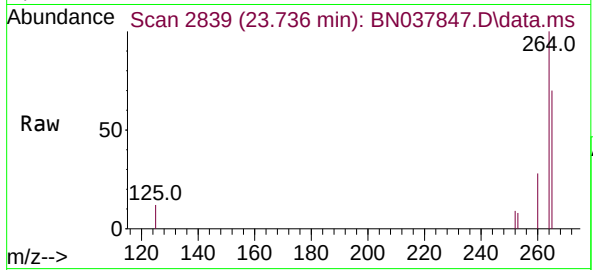




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 2839
Delta R.T. -0.018 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

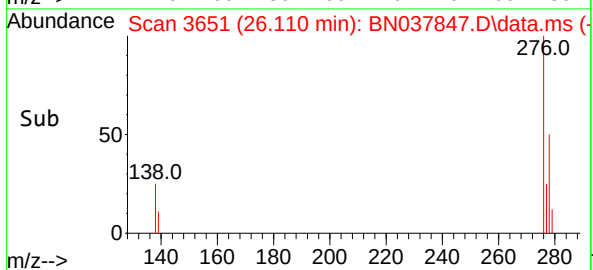
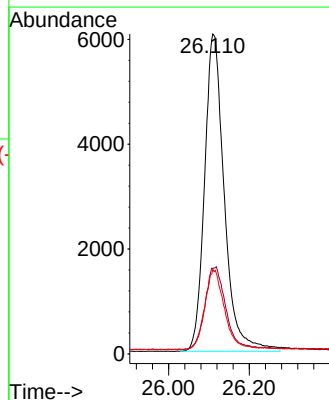
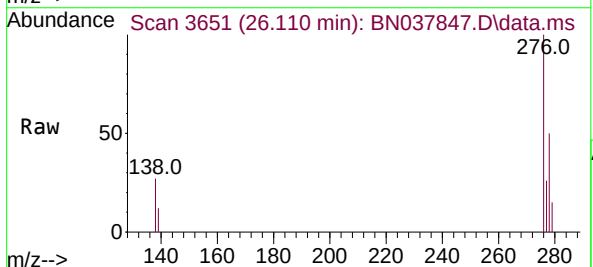
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

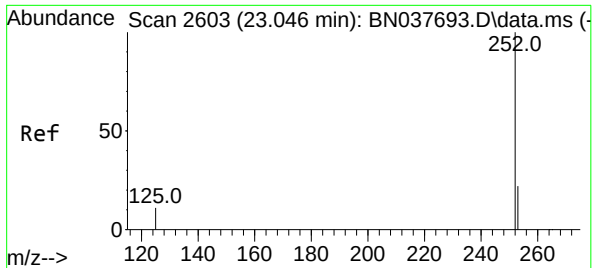
Tgt Ion:264 Resp: 11862
Ion Ratio Lower Upper
264 100
260 27.6 21.8 32.8
265 70.1 39.4 59.2#



#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

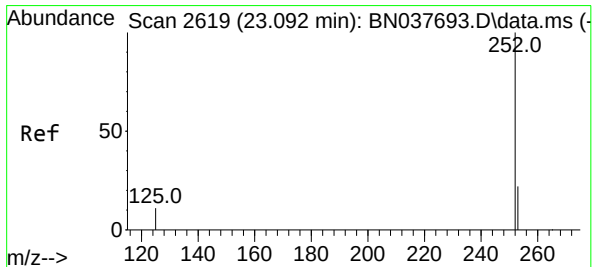
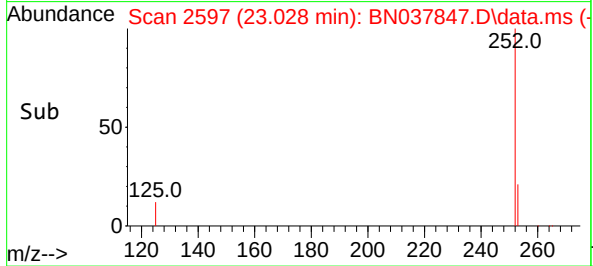
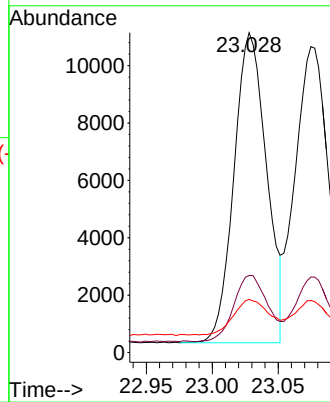
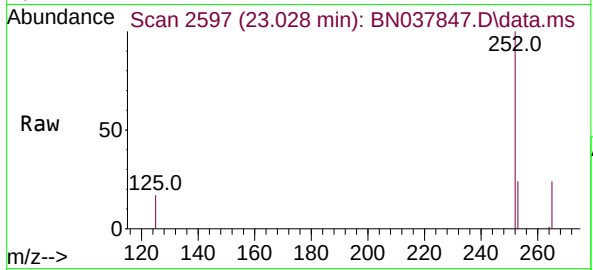
Tgt Ion:252 Resp: 18556

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

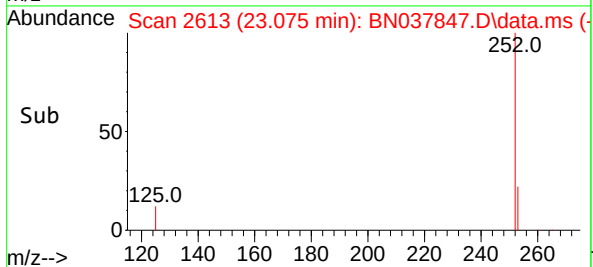
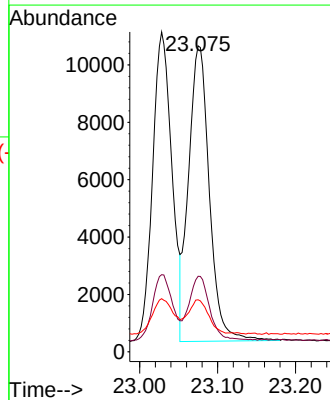
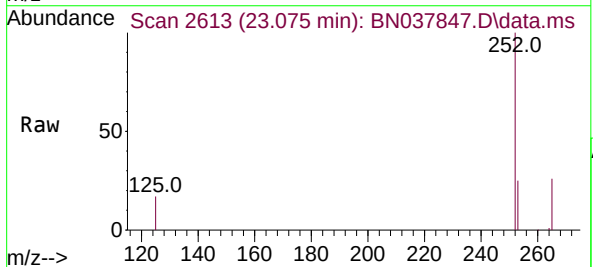
Tgt Ion:252 Resp: 19102

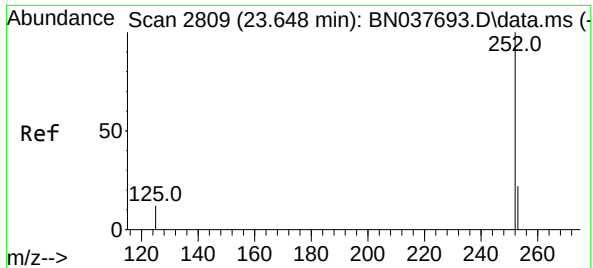
Ion Ratio Lower Upper

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

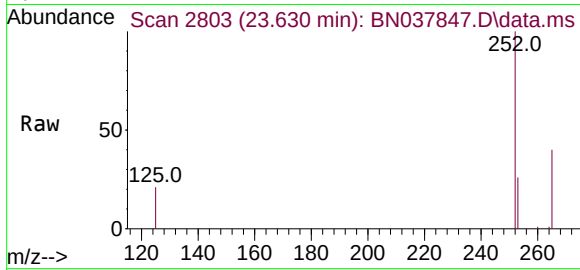
Acq: 20 Sep 2025 11:39

Instrument :

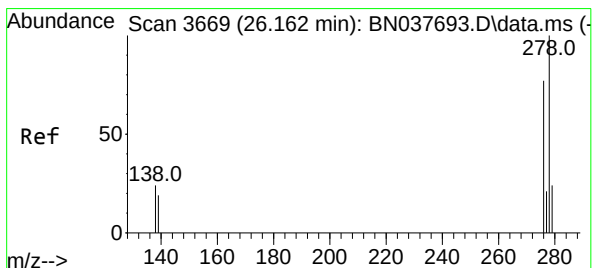
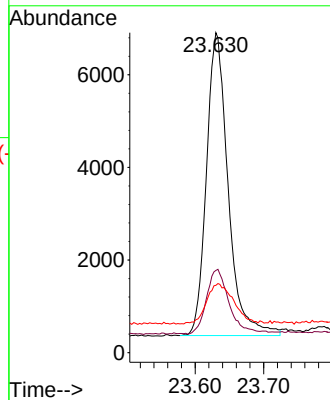
BNA_N

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

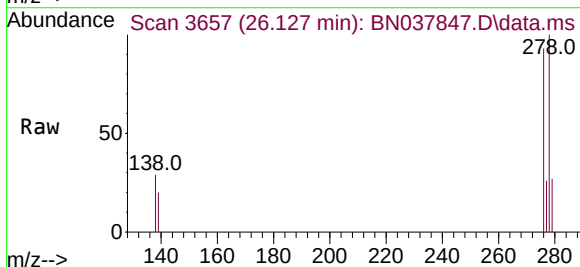
Concen: 0.392 ng

RT: 26.127 min Scan# 3657

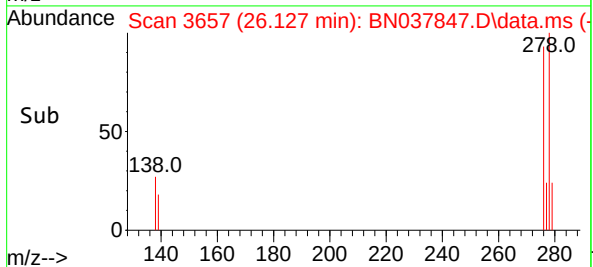
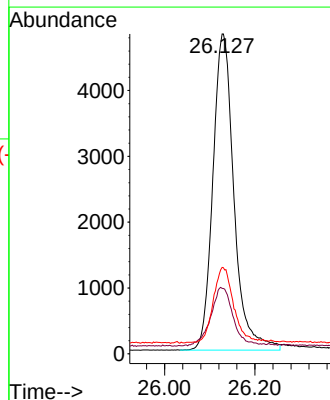
Delta R.T. -0.035 min

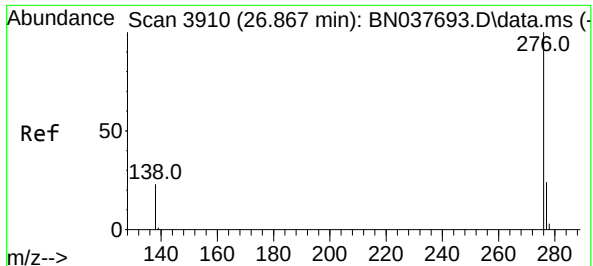
Lab File: BN037847.D

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

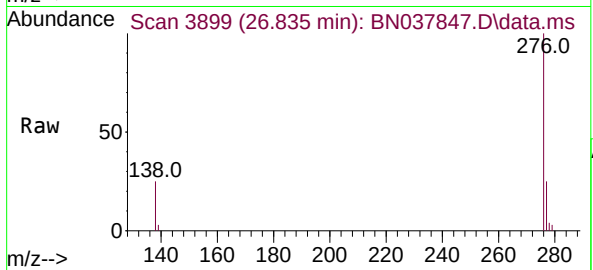
Acq: 20 Sep 2025 11:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



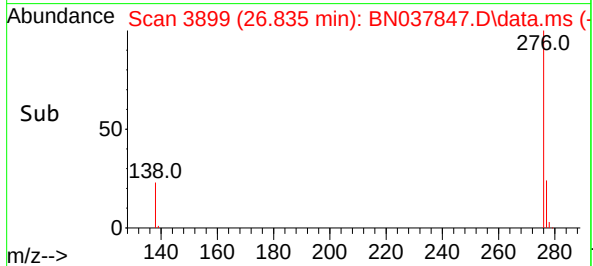
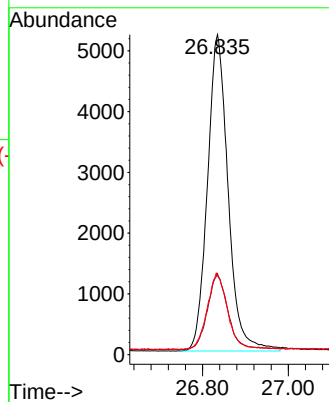
Tgt Ion:276 Resp: 17395

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



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.: Q3127
 Instrument ID: BNA_N Calibration Date/Time: 09/22/2025 10:19
 Lab File ID: BN037849.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	0.554		4.5	20.0
Fluoranthene-d10	1.004	0.954		-5.0	20.0
2-Fluorophenol	0.918	0.898		-2.2	20.0
Phenol-d6	1.191	1.119		-6.0	20.0
Nitrobenzene-d5	0.293	0.294		0.3	20.0
2-Fluorobiphenyl	1.673	1.673		0.0	20.0
2,4,6-Tribromophenol	0.104	0.116		11.5	20.0
Terphenyl-d14	0.812	0.726		-10.6	20.0
1,4-Dioxane	0.417	0.420		0.7	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
 Data File : BN037849.D
 Acq On : 22 Sep 2025 10:19
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Sep 22 11:54:46 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

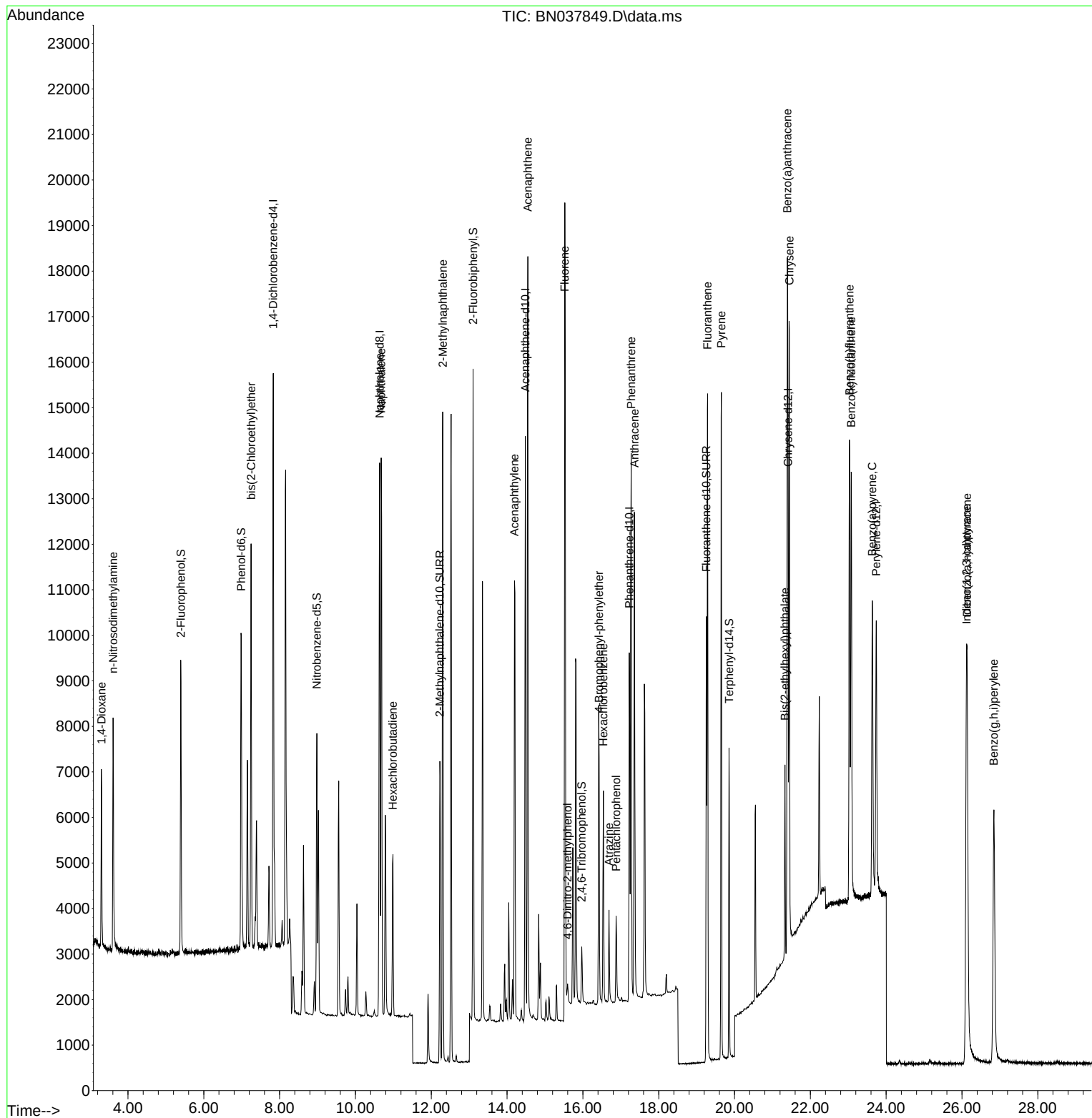
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	6007	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	15935	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	7024	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	11177	0.400	ng	-0.01
29) Chrysene-d12	21.411	240	8688	0.400	ng	0.00
35) Perylene-d12	23.738	264	8600	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	5395	0.391	ng	0.00
5) Phenol-d6	6.988	99	6719	0.376	ng	0.00
8) Nitrobenzene-d5	8.982	82	4692	0.403	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	8829	0.418	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	812	0.443	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	11748	0.400	ng	-0.01
27) Fluoranthene-d10	19.257	212	10663	0.380	ng	-0.01
31) Terphenyl-d14	19.856	244	6310	0.358	ng	-0.01
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.304	88	2524	0.403	ng	94
3) n-Nitrosodimethylamine	3.608	42	3046	0.373	ng	90
6) bis(2-Chloroethyl)ether	7.248	93	6305	0.395	ng	99
9) Naphthalene	10.680	128	16803	0.386	ng	100
10) Hexachlorobutadiene	10.989	225	2967	0.377	ng	# 100
12) 2-Methylnaphthalene	12.304	142	10097	0.375	ng	99
16) Acenaphthylene	14.195	152	11802	0.366	ng	99
17) Acenaphthene	14.548	154	8351	0.383	ng	99
18) Fluorene	15.522	166	9450	0.358	ng	100
20) 4,6-Dinitro-2-methylph...	15.597	198	305	0.295	ng	# 65
21) 4-Bromophenyl-phenylether	16.429	248	2861	0.393	ng	95
22) Hexachlorobenzene	16.540	284	3680	0.439	ng	98
23) Atrazine	16.689	200	1643	0.354	ng	96
24) Pentachlorophenol	16.875	266	1064	0.437	ng	99
25) Phenanthrene	17.273	178	13567	0.386	ng	99
26) Anthracene	17.360	178	11399	0.366	ng	99
28) Fluoranthene	19.290	202	13302	0.345	ng	100
30) Pyrene	19.652	202	13103	0.385	ng	100
32) Benzo(a)anthracene	21.393	228	11214	0.370	ng	100
33) Chrysene	21.447	228	12655	0.389	ng	100
34) Bis(2-ethylhexyl)phtha...	21.331	149	3687	0.410	ng	99
36) Indeno(1,2,3-cd)pyrene	26.118	276	14013	0.388	ng	99
37) Benzo(b)fluoranthene	23.031	252	13342	0.394	ng	# 94
38) Benzo(k)fluoranthene	23.078	252	13191	0.382	ng	# 94
39) Benzo(a)pyrene	23.633	252	10590	0.391	ng	# 92
40) Dibenzo(a,h)anthracene	26.136	278	10527	0.365	ng	99
41) Benzo(g,h,i)perylene	26.841	276	12869	0.398	ng	99

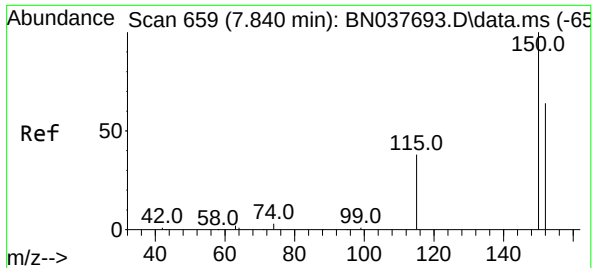
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037849.D
Acq On : 22 Sep 2025 10:19
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 22 11:54:46 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

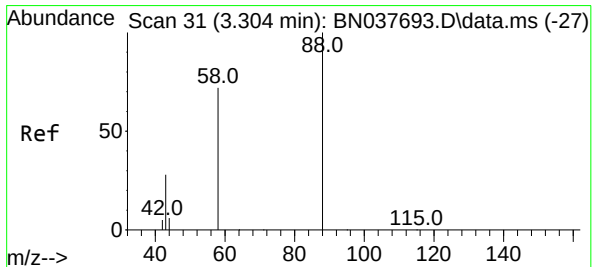
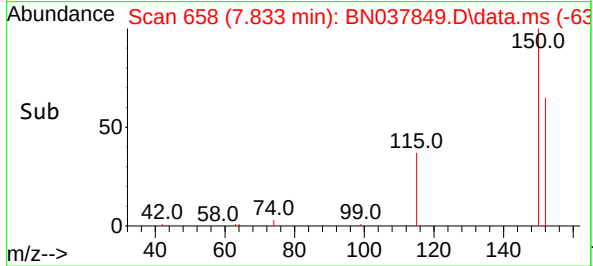
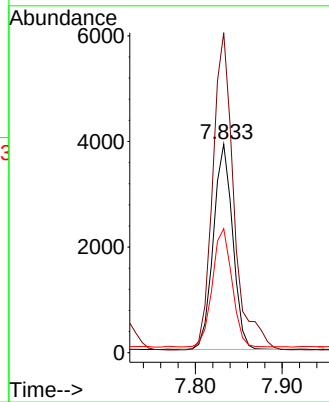
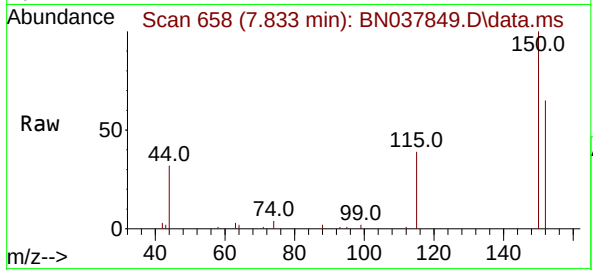




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

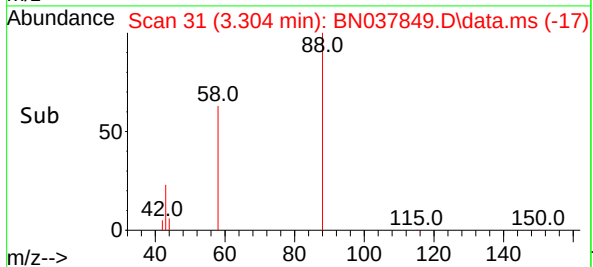
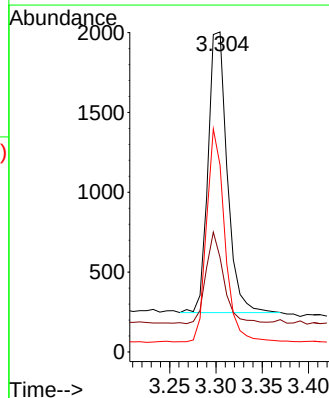
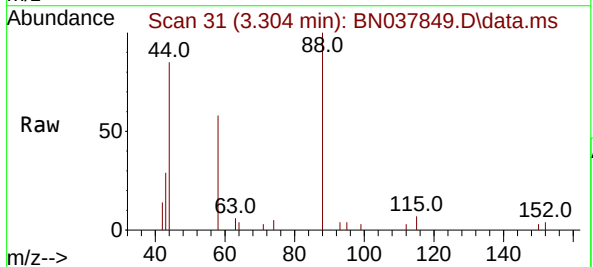
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

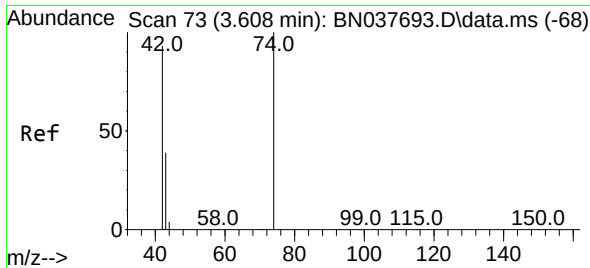
Tgt Ion:152 Resp: 6007
Ion Ratio Lower Upper
152 100
150 153.4 124.5 186.7
115 59.4 49.2 73.8



#2
1,4-Dioxane
Concen: 0.403 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion: 88 Resp: 2524
Ion Ratio Lower Upper
88 100
43 30.0 26.8 40.2
58 72.1 61.9 92.9

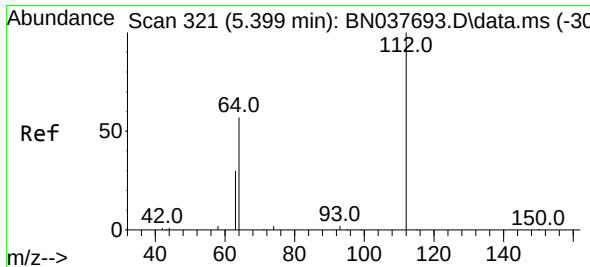
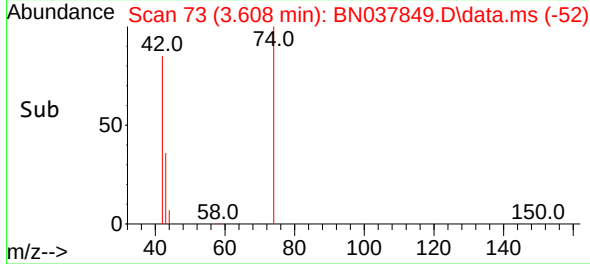
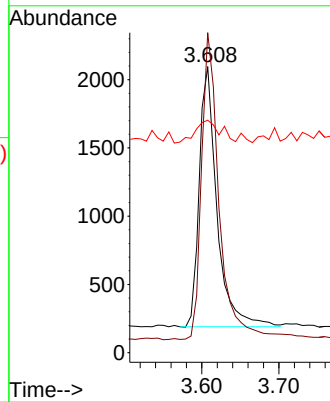
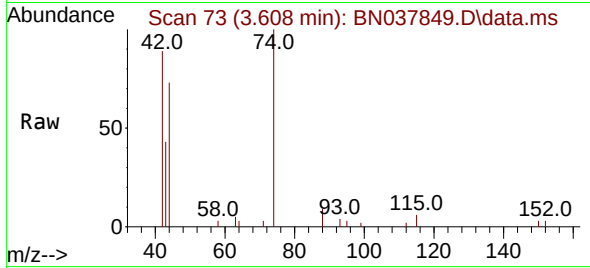




#3
n-Nitrosodimethylamine
Concen: 0.373 ng
RT: 3.608 min Scan# 73
Delta R.T. -0.000 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

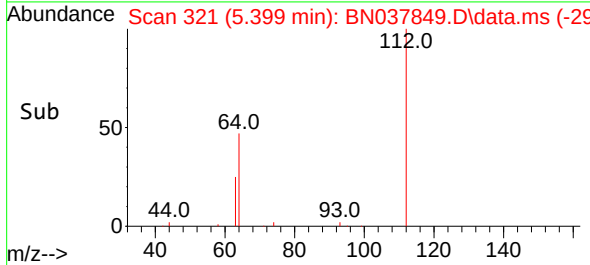
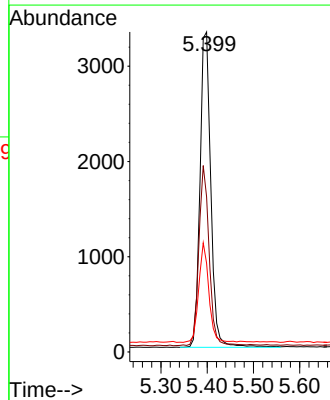
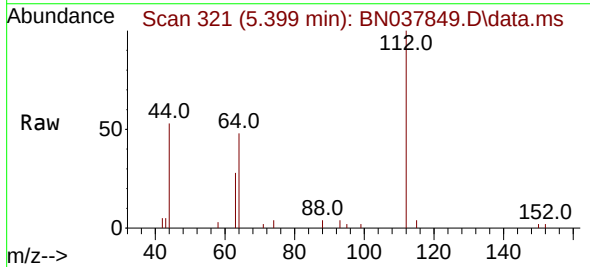
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

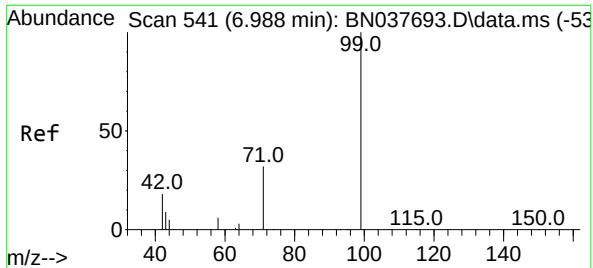
Tgt Ion: 42 Resp: 3046
Ion Ratio Lower Upper
42 100
74 118.2 86.0 129.0
44 11.2 8.4 12.6



#4
2-Fluorophenol
Concen: 0.391 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion: 112 Resp: 5395
Ion Ratio Lower Upper
112 100
64 54.6 44.9 67.3
63 29.5 24.7 37.1

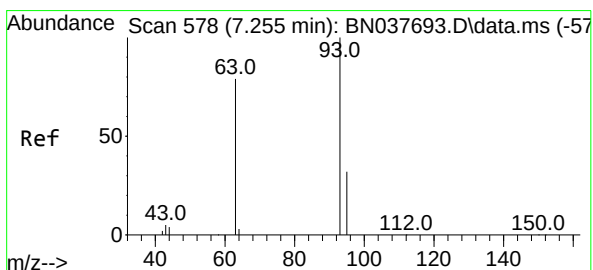
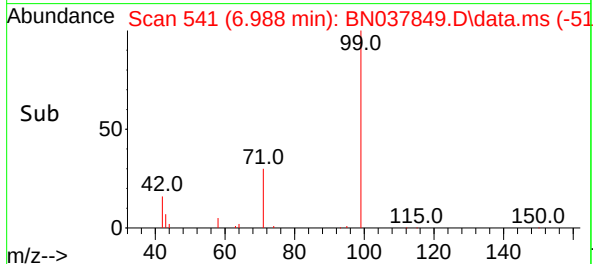
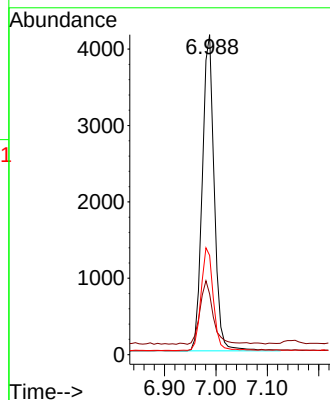
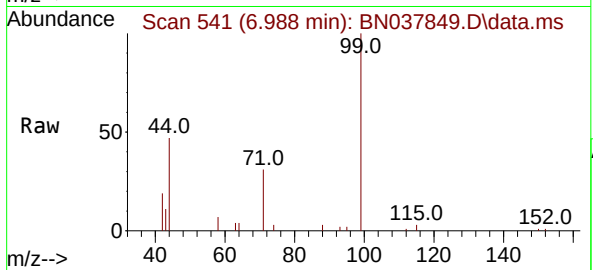




#5
Phenol-d6
Concen: 0.376 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

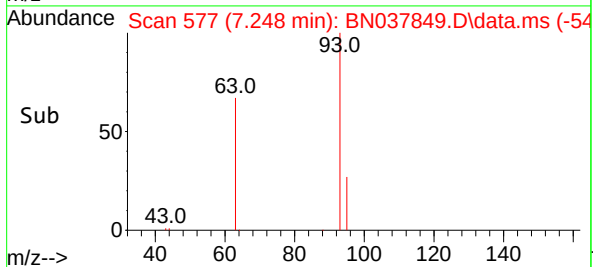
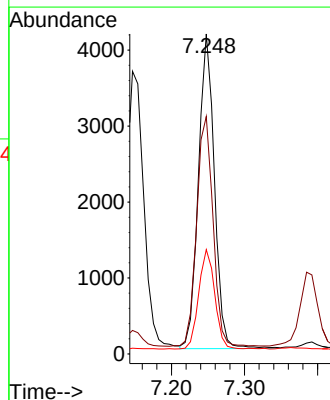
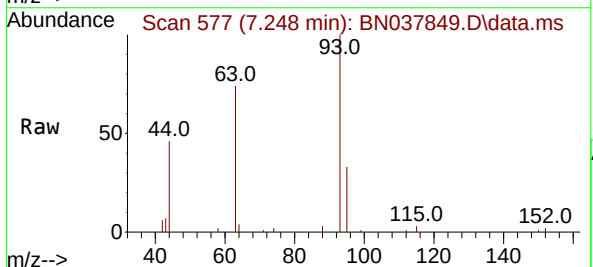
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

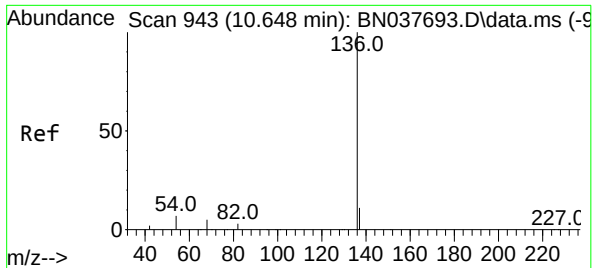
Tgt Ion: 99 Resp: 6719
Ion Ratio Lower Upper
99 100
42 21.7 16.6 24.8
71 33.3 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.395 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion: 93 Resp: 6305
Ion Ratio Lower Upper
93 100
63 74.6 60.6 90.8
95 31.6 26.0 39.0

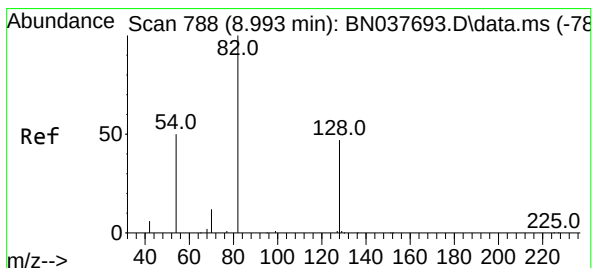
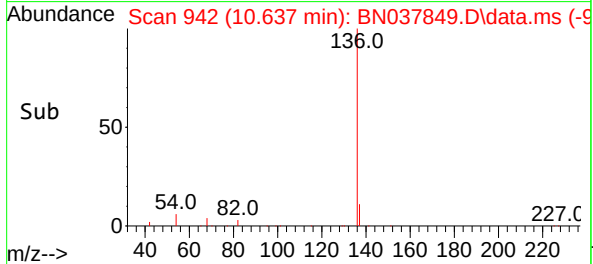
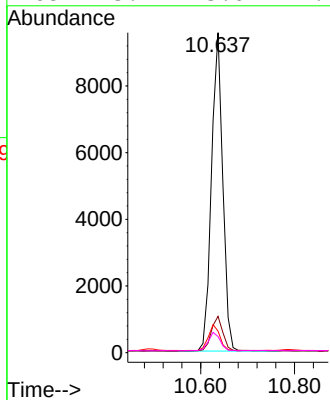
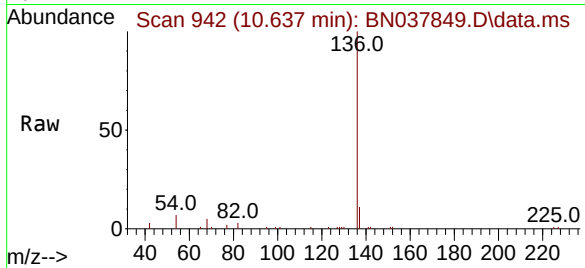




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

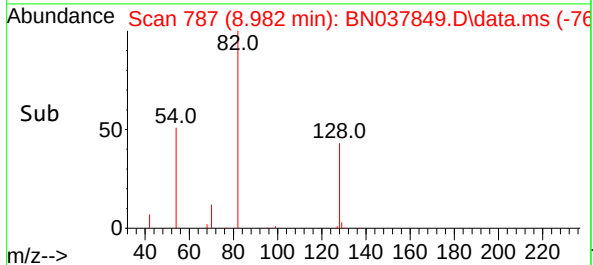
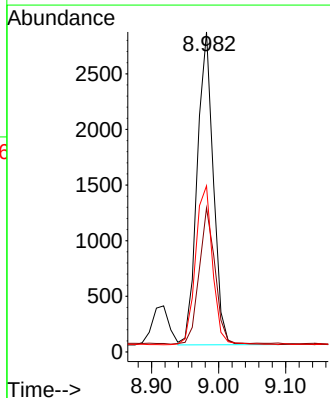
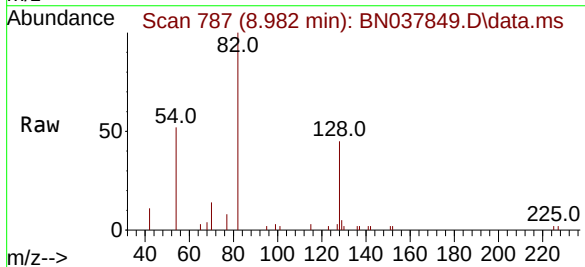
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

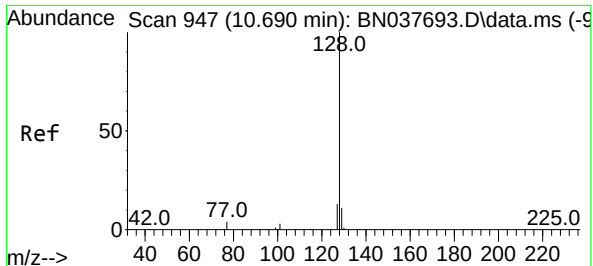
Tgt Ion:	136	Resp:	15935
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.1	13.7
54	6.7	6.3	9.5
68	5.1	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.403 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:	82	Resp:	4692
Ion Ratio	Lower	Upper	
82	100		
128	45.0	38.3	57.5
54	51.9	41.4	62.2

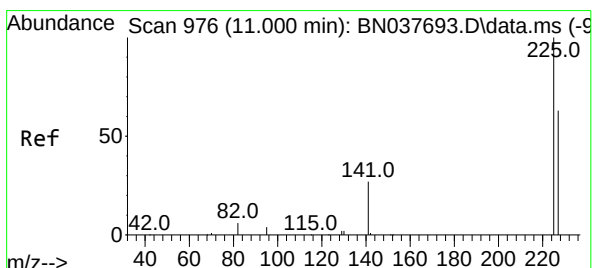
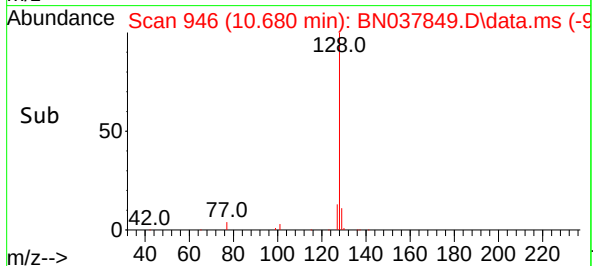
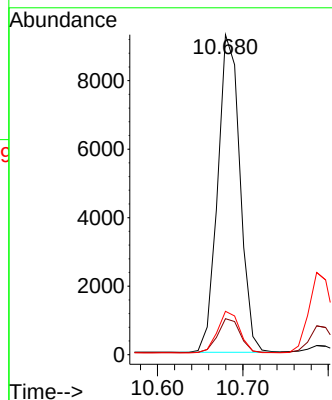
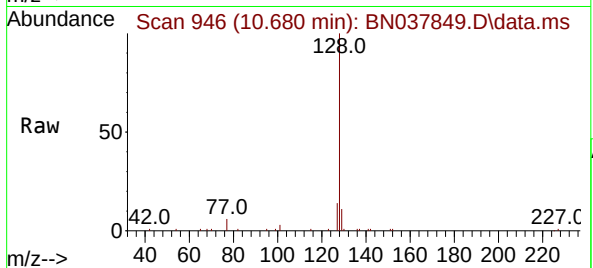




#9
Naphthalene
Concen: 0.386 ng
RT: 10.680 min Scan# 946
Delta R.T. -0.011 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

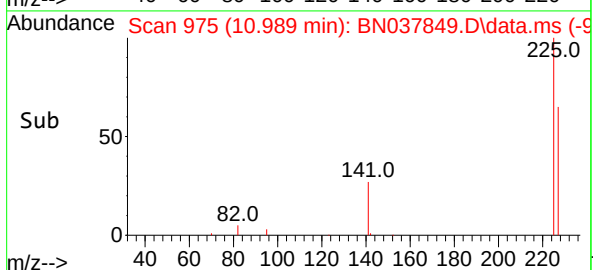
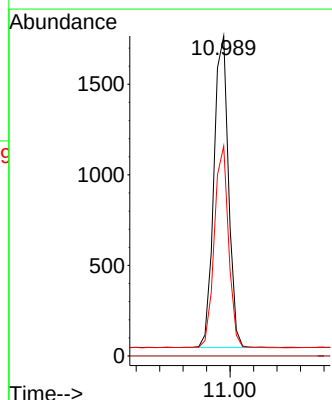
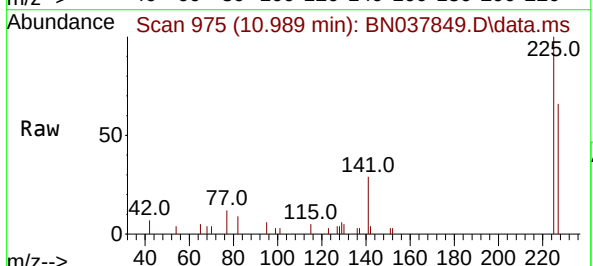
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

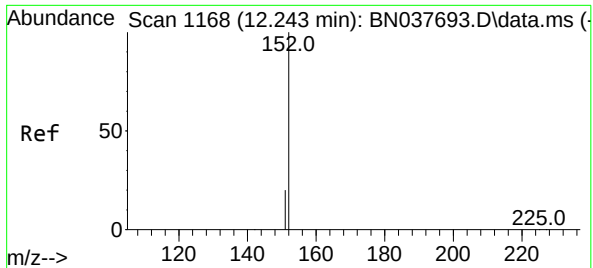
Tgt Ion:	128	Resp:	16803
Ion Ratio	Lower	Upper	
128	100		
129	11.3	9.1	13.7
127	13.5	10.9	16.3



#10
Hexachlorobutadiene
Concen: 0.377 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:	225	Resp:	2967
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	63.3	50.9	76.3

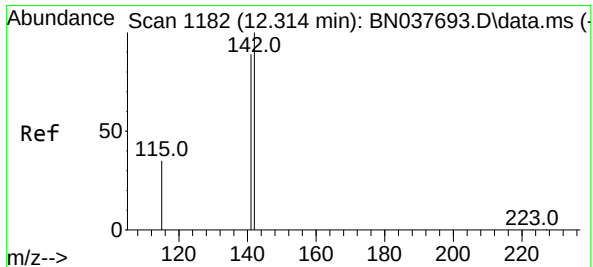
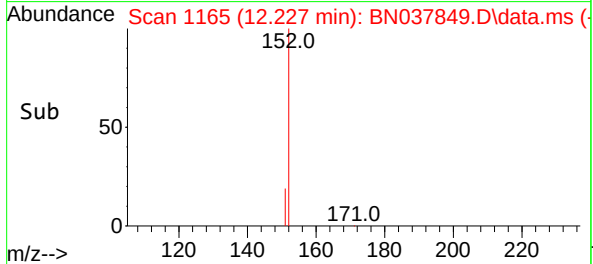
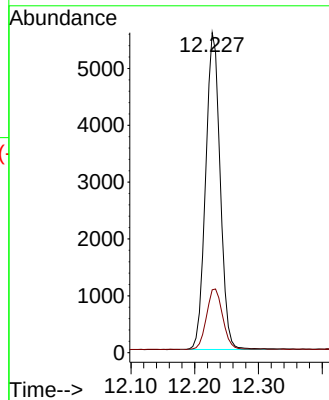
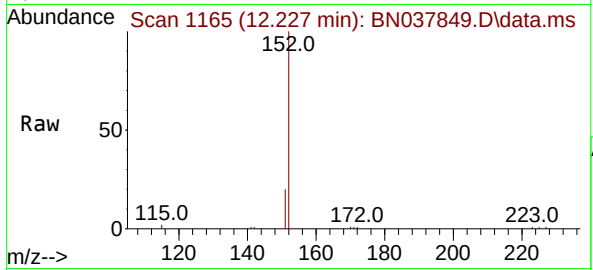




#11
2-Methylnaphthalene-d10
Concen: 0.418 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

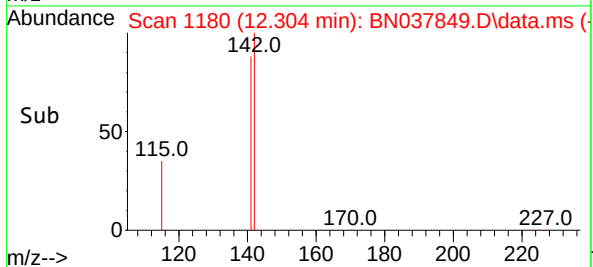
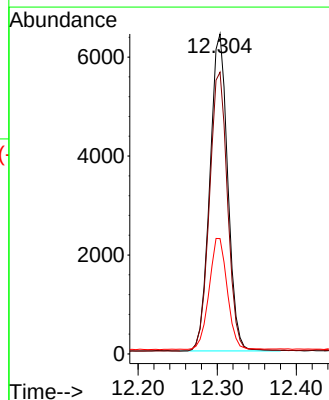
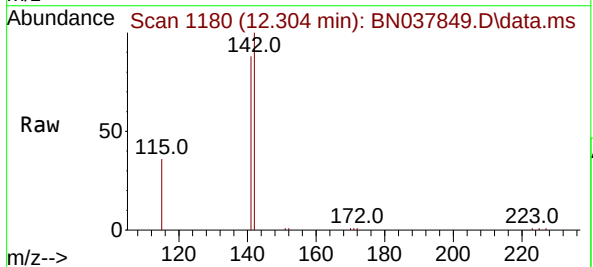
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

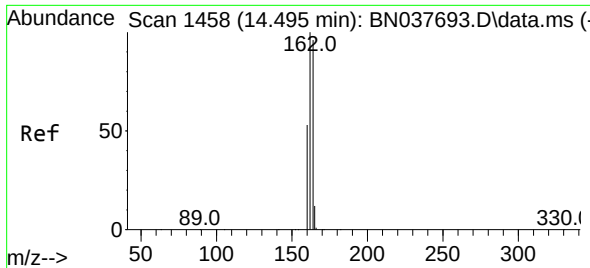
Tgt Ion:152 Resp: 8829
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.375 ng
RT: 12.304 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:142 Resp: 10097
Ion Ratio Lower Upper
142 100
141 88.1 71.6 107.4
115 36.1 28.6 43.0

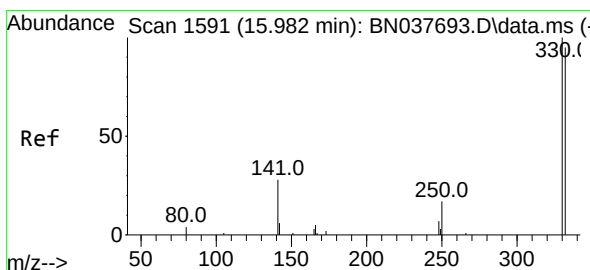
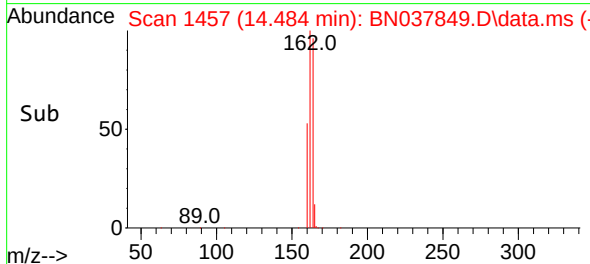
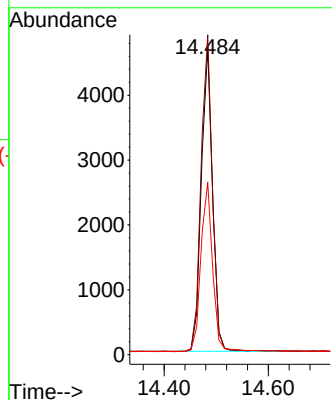
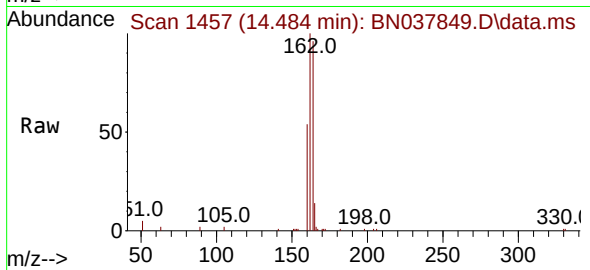




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

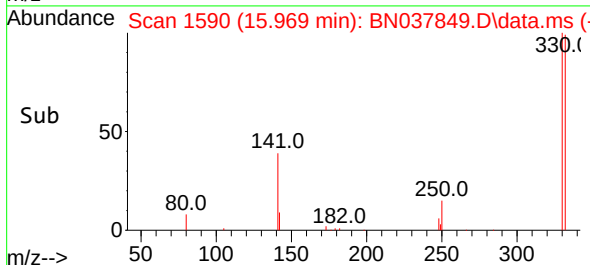
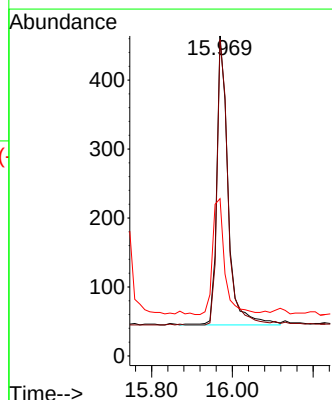
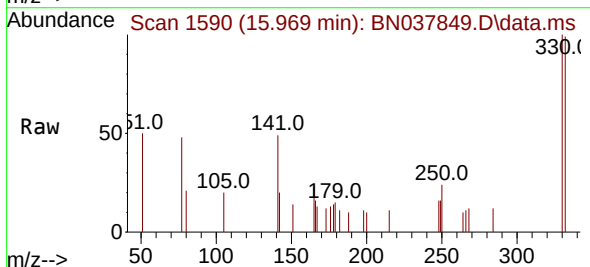
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

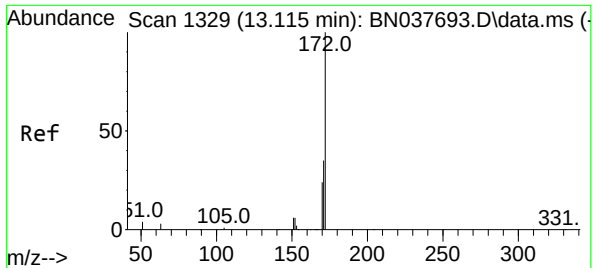
Tgt Ion:164 Resp: 7024
Ion Ratio Lower Upper
164 100
162 104.2 83.1 124.7
160 56.1 44.3 66.5



#14
2,4,6-Tribromophenol
Concen: 0.443 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:330 Resp: 812
Ion Ratio Lower Upper
330 100
332 95.6 75.3 112.9
141 44.0 35.0 52.4

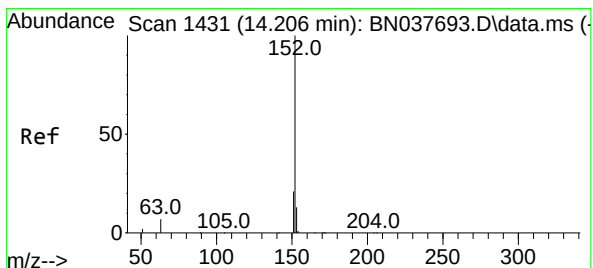
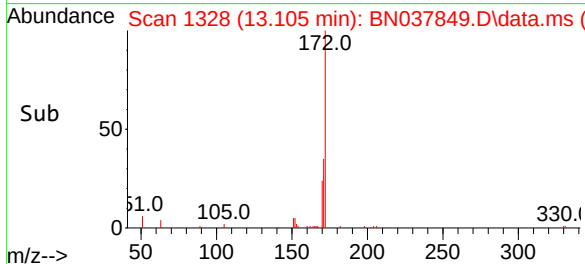
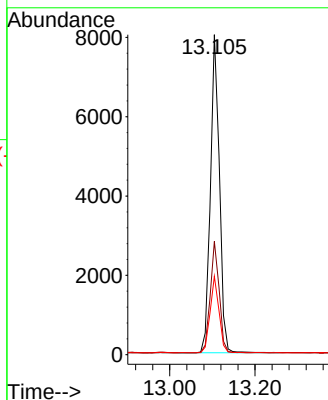
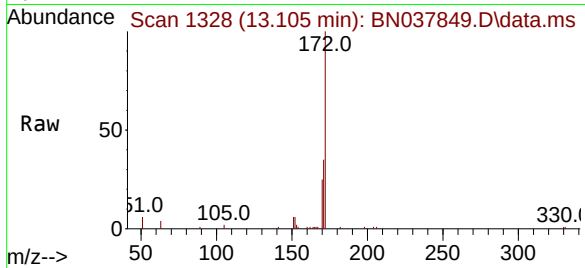




#15
2-Fluorobiphenyl
Concen: 0.400 ng
RT: 13.105 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

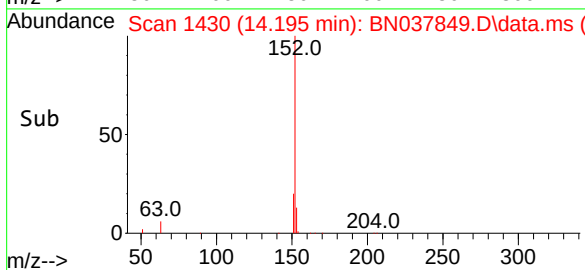
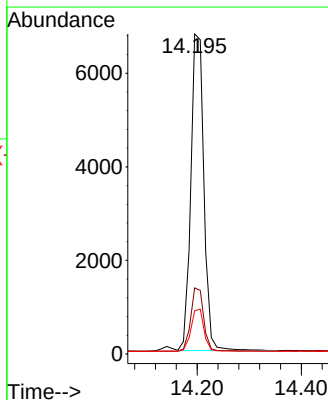
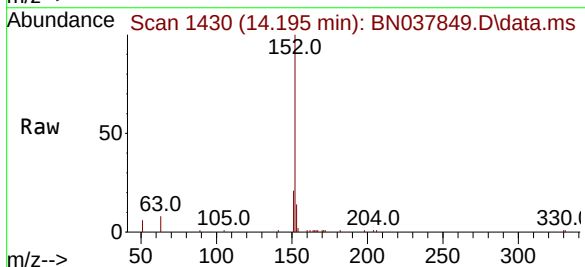
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

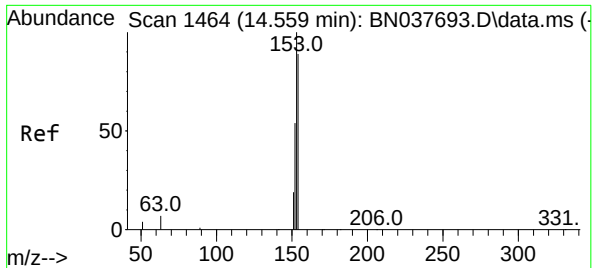
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.6	43.0
170	24.5	19.8	29.8



#16
Acenaphthylene
Concen: 0.366 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.011 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.2
153	13.8	10.4	15.6

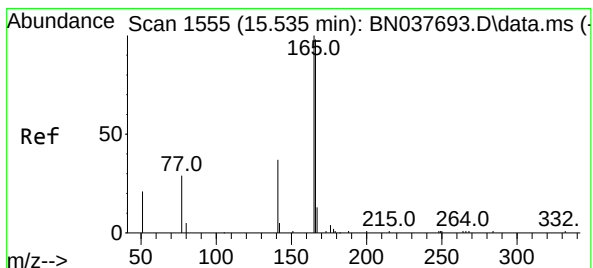
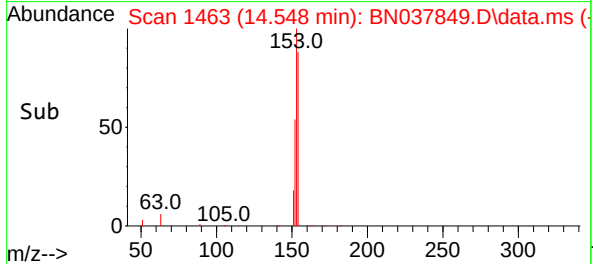
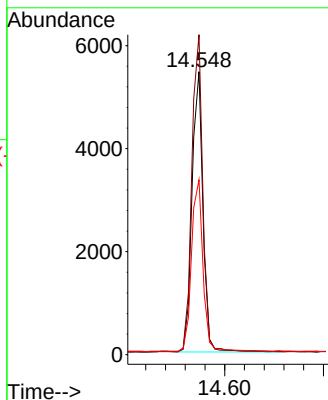
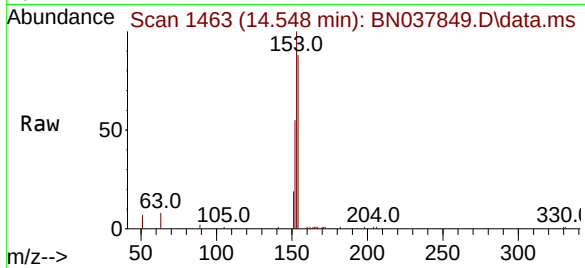




#17
Acenaphthene
Concen: 0.383 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

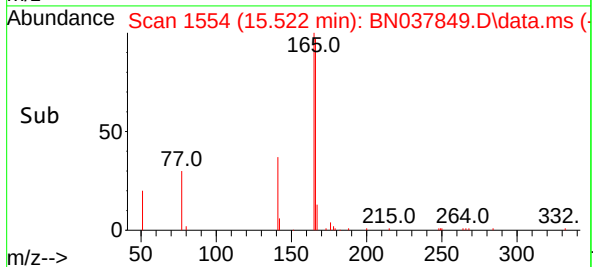
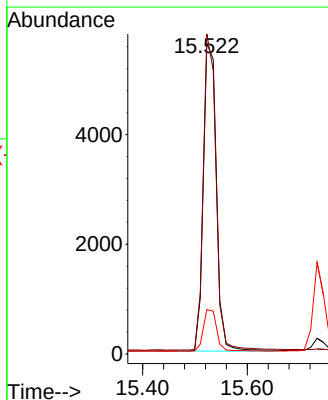
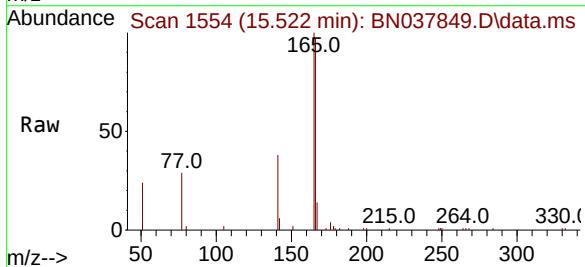
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

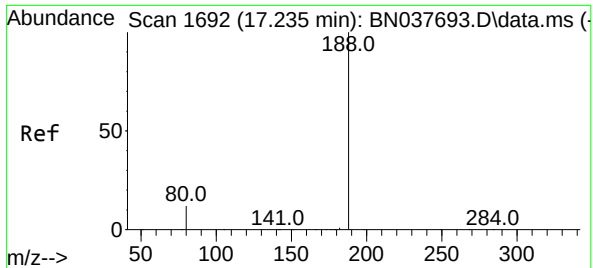
Tgt Ion:154 Resp: 8351
Ion Ratio Lower Upper
154 100
153 113.6 89.8 134.8
152 64.3 50.2 75.2



#18
Fluorene
Concen: 0.358 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.013 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:166 Resp: 9450
Ion Ratio Lower Upper
166 100
165 99.4 79.6 119.4
167 14.0 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1

Delta R.T. -0.013 min

Lab File: BN037849.D

Acq: 22 Sep 2025 10:19

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

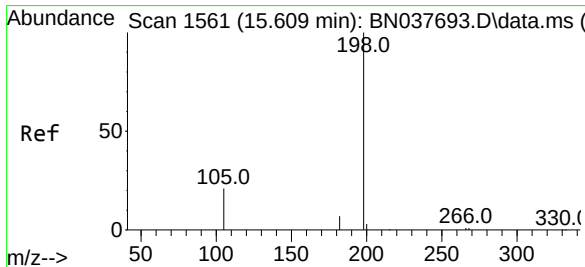
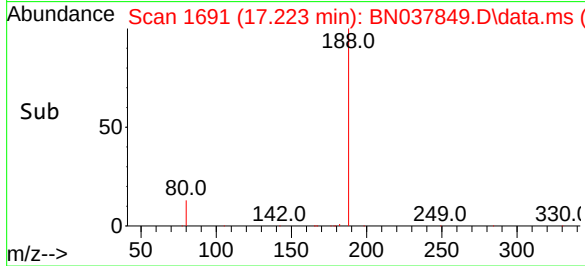
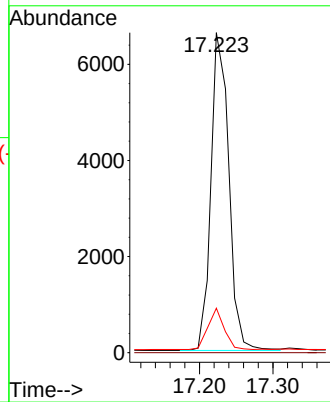
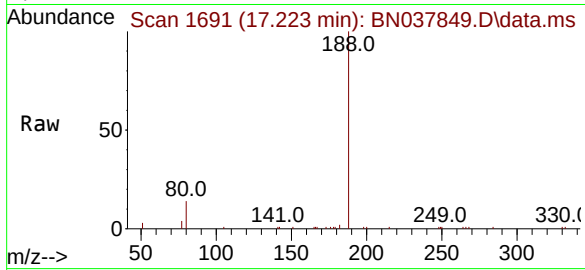
Tgt Ion:188 Resp: 11177

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: 0.295 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.012 min

Lab File: BN037849.D

Acq: 22 Sep 2025 10:19

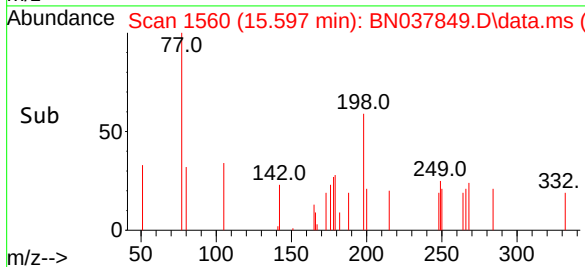
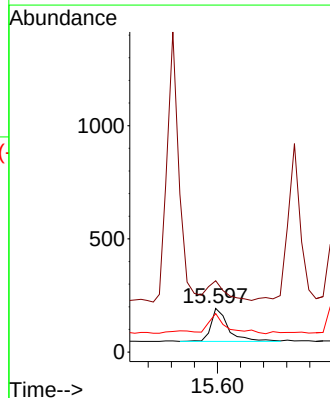
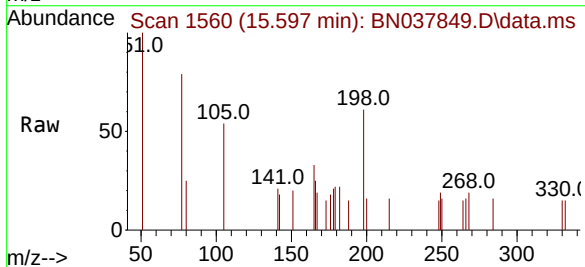
Tgt Ion:198 Resp: 305

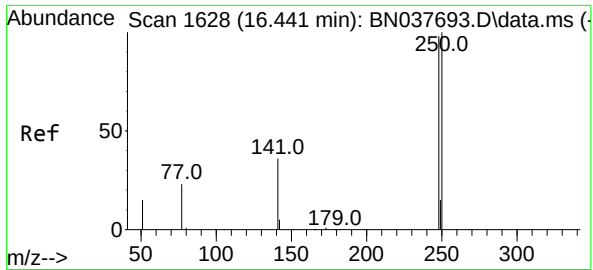
Ion Ratio Lower Upper

198 100

51 163.2 95.1 142.7#

105 88.1 53.8 80.6#

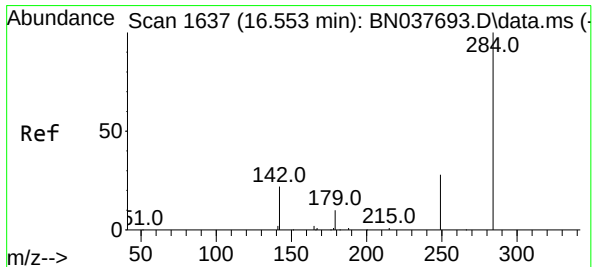
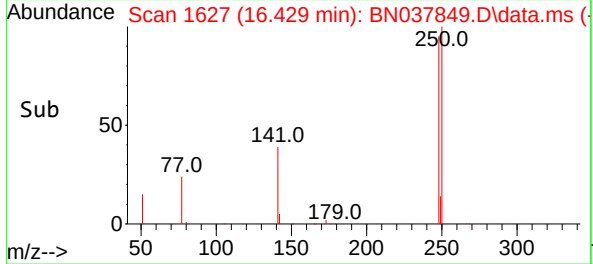
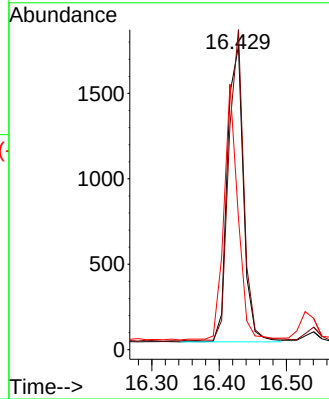
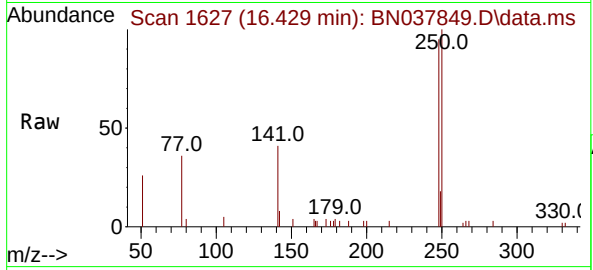




#21
4-Bromophenyl-phenylether
Concen: 0.393 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.013 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

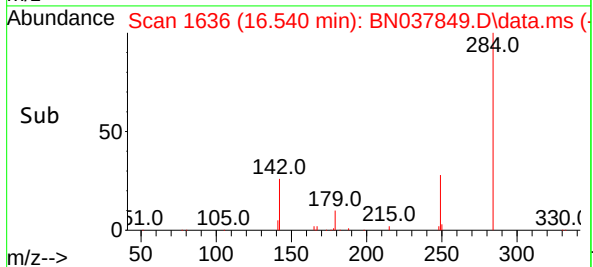
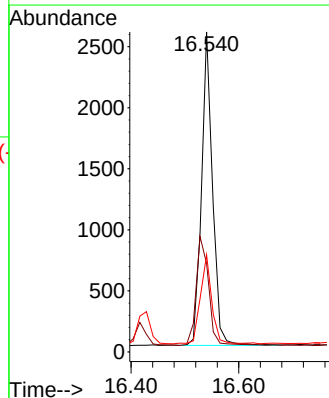
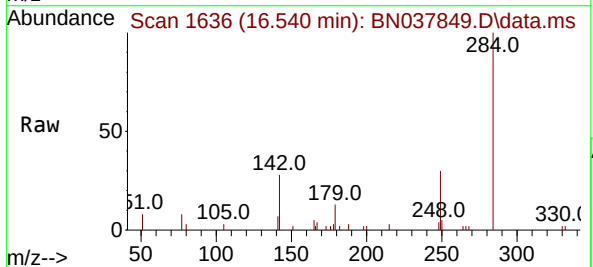
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

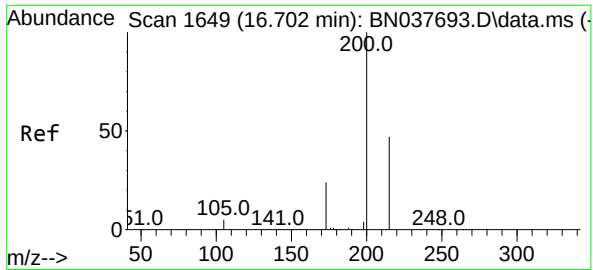
Tgt Ion	Ratio	Lower	Upper
248	100		
250	105.5	81.5	122.3
141	43.4	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.439 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.2	30.9	46.3
249	29.0	24.8	37.2

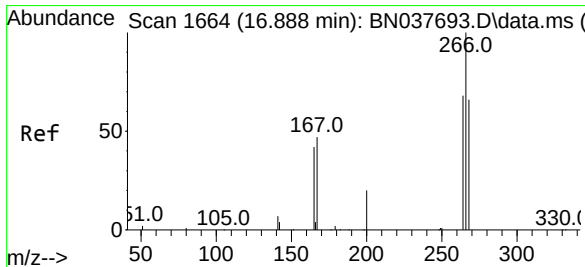
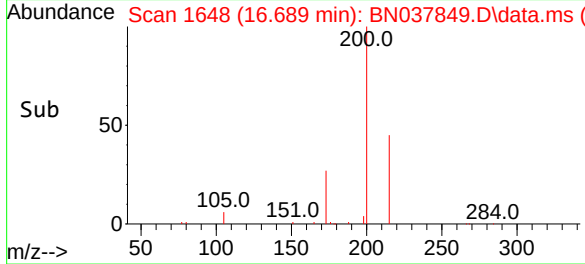
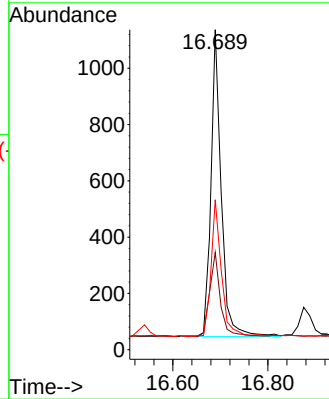
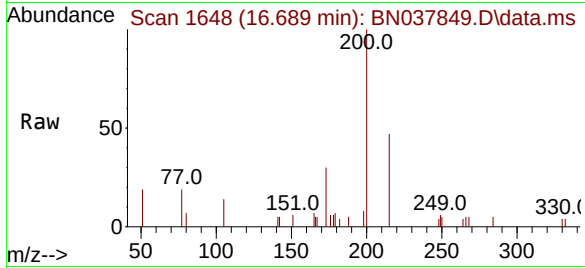




#23
Atrazine
Concen: 0.354 ng
RT: 16.689 min Scan# 1643
Delta R.T. -0.013 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

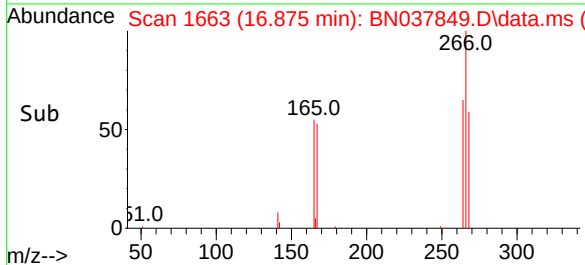
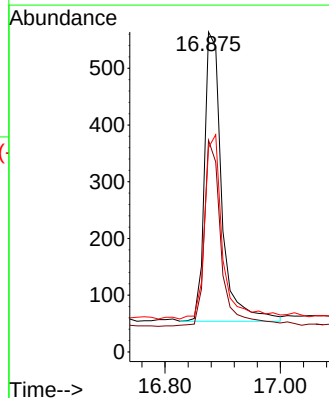
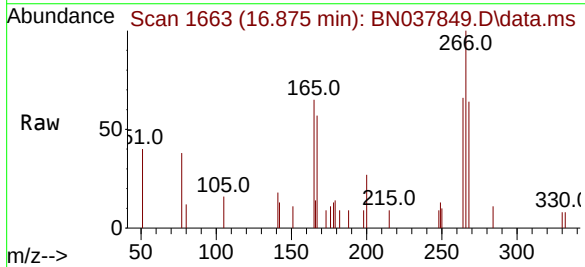
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

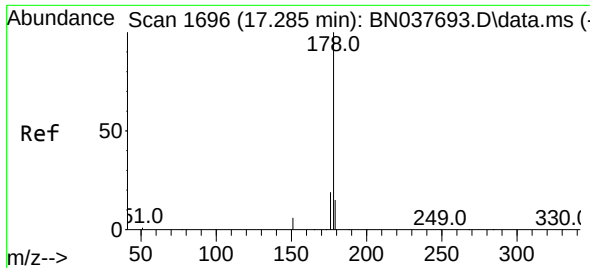
Tgt Ion:	200	Resp:	1643
Ion Ratio	Lower	Upper	
200	100		
173	30.4	21.4	32.2
215	46.9	39.2	58.8



#24
Pentachlorophenol
Concen: 0.437 ng
RT: 16.875 min Scan# 1663
Delta R.T. -0.013 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:	266	Resp:	1064
Ion Ratio	Lower	Upper	
266	100		
264	64.1	51.6	77.4
268	65.9	53.2	79.8

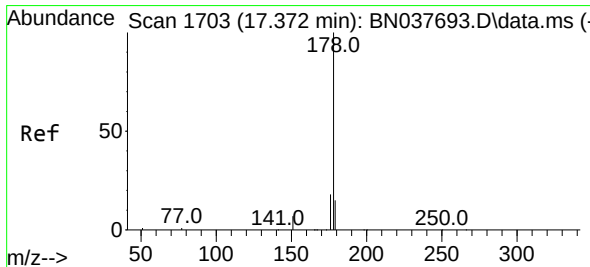
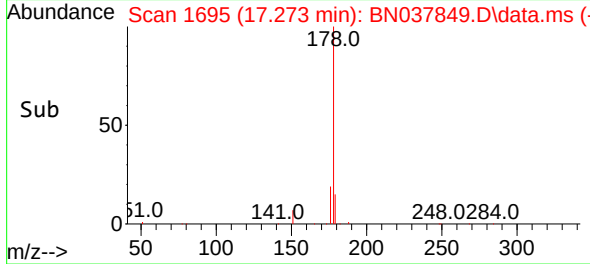
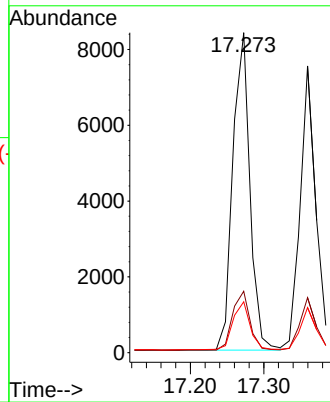
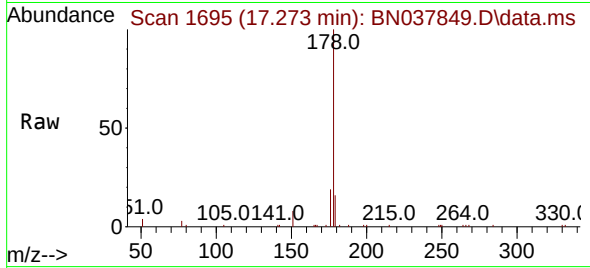




#25
Phenanthrene
Concen: 0.386 ng
RT: 17.273 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

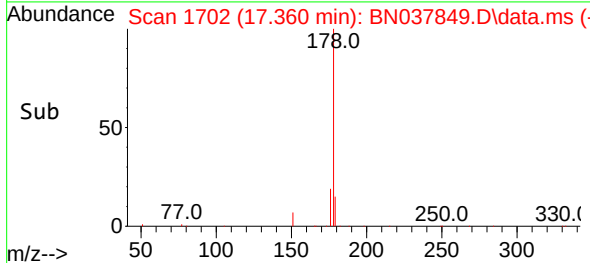
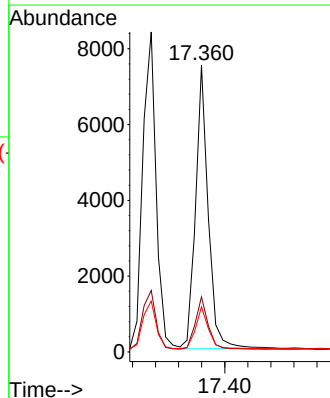
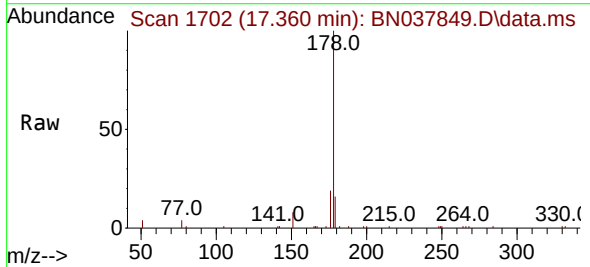
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

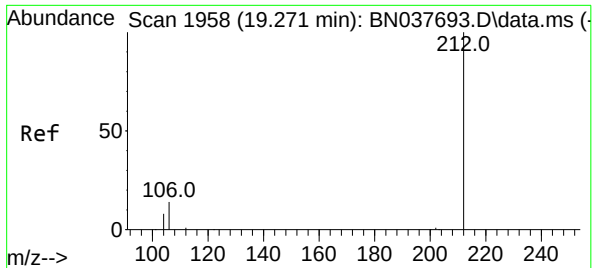
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.3	22.9
179	15.6	12.2	18.2



#26
Anthracene
Concen: 0.366 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.6	22.0
179	15.1	12.2	18.4

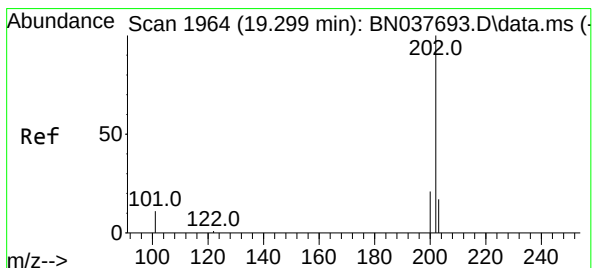
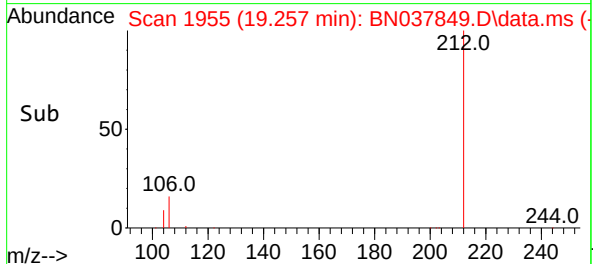
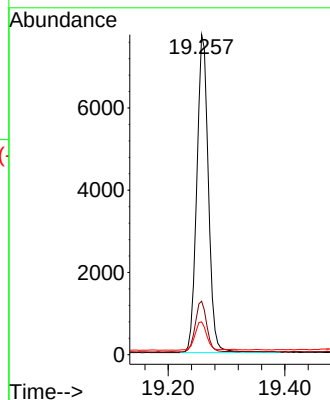
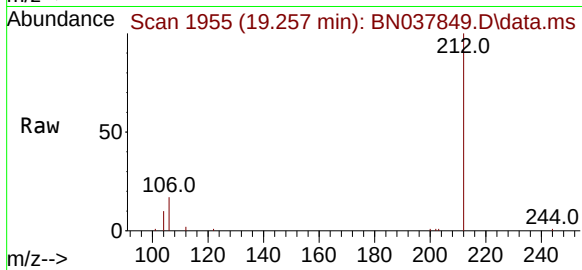




#27
Fluoranthene-d10
Concen: 0.380 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

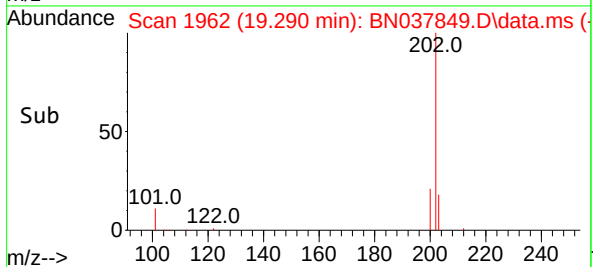
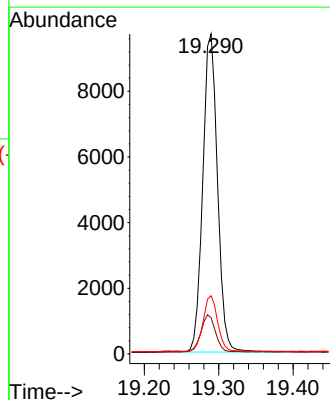
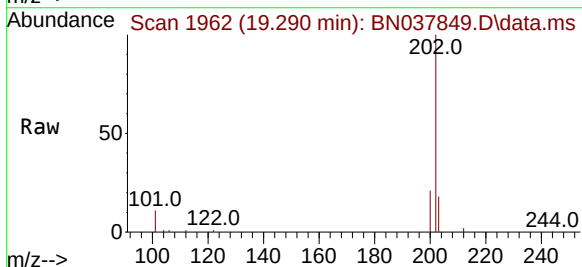
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

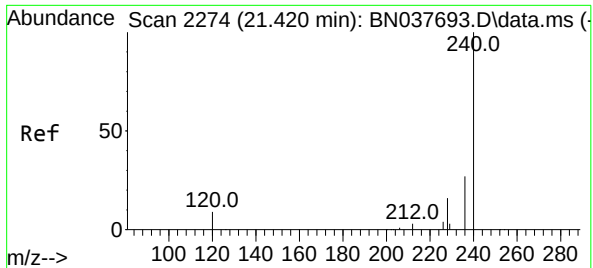
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.9	12.2	18.2
104	9.0	6.9	10.3



#28
Fluoranthene
Concen: 0.345 ng
RT: 19.290 min Scan# 1962
Delta R.T. -0.009 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.5	9.3	13.9
203	17.1	13.7	20.5

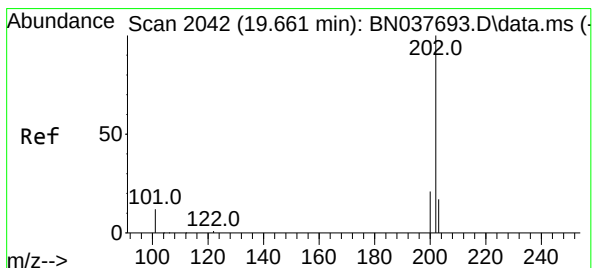
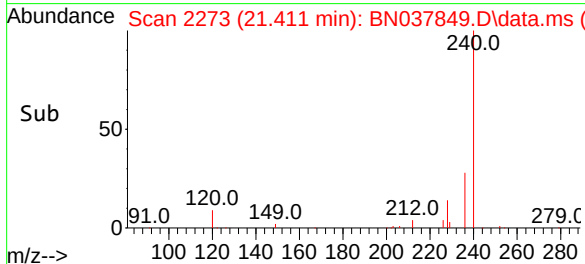
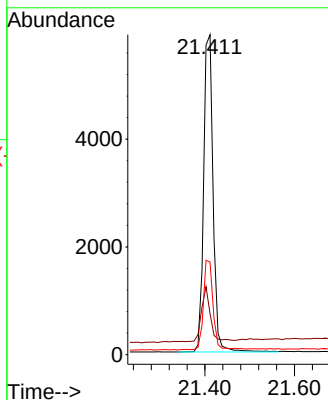
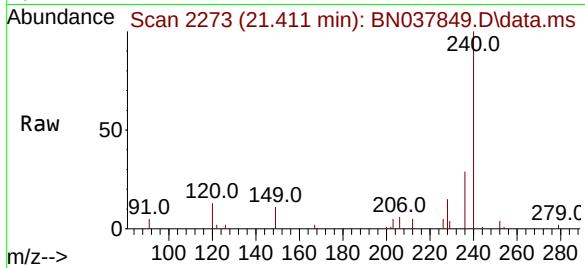




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

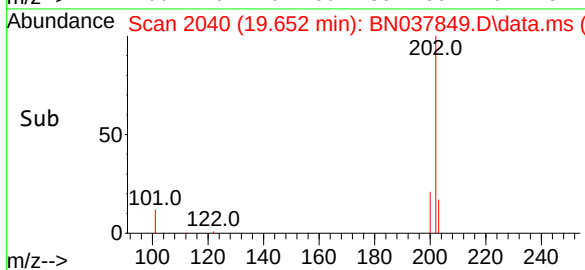
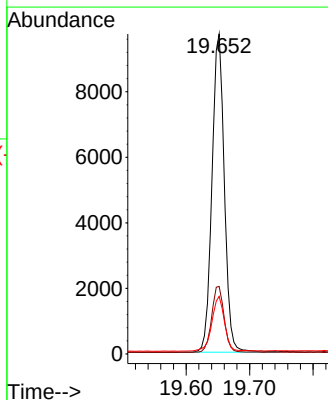
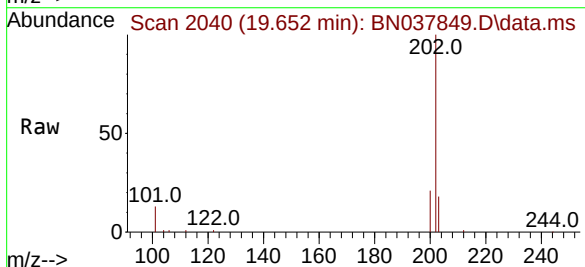
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

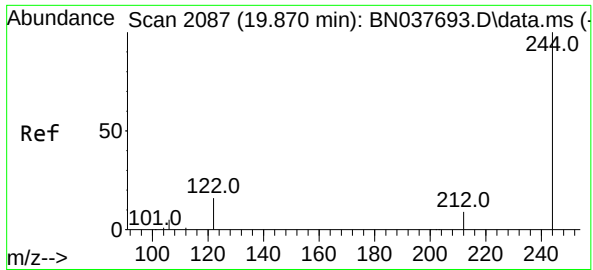
Tgt Ion:	240	Resp:	8688
Ion Ratio	Lower	Upper	
240	100		
120	12.8	9.2	13.8
236	29.0	22.6	33.8



#30
Pyrene
Concen: 0.385 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:	202	Resp:	13103
Ion Ratio	Lower	Upper	
202	100		
200	20.9	16.8	25.2
203	17.8	14.3	21.5

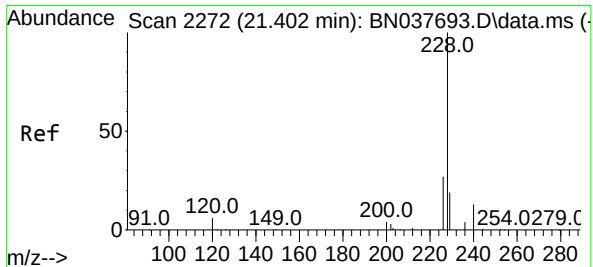
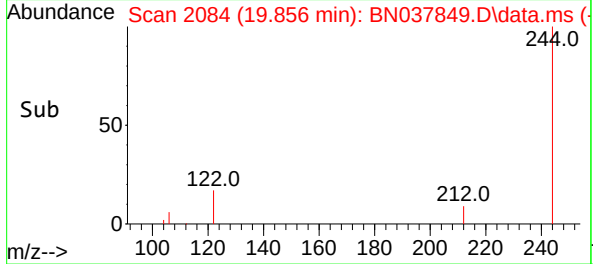
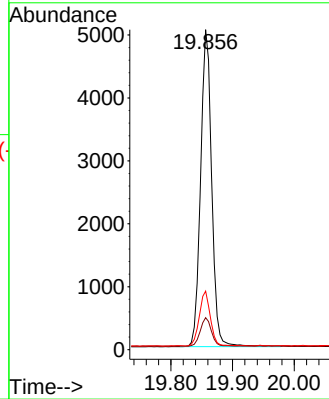
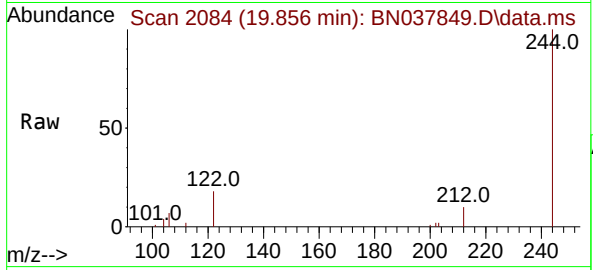




#31
Terphenyl-d14
Concen: 0.358 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

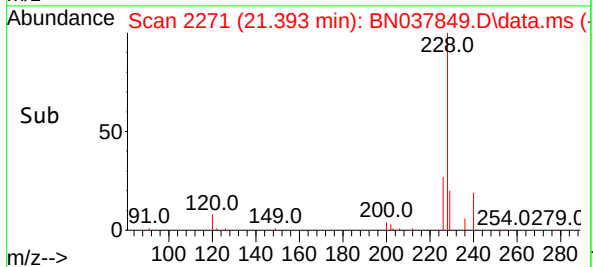
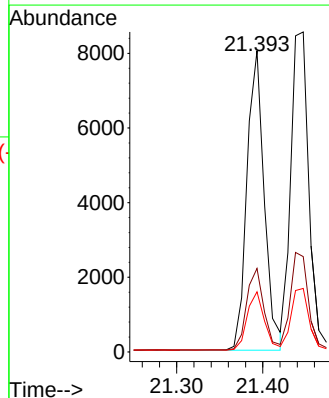
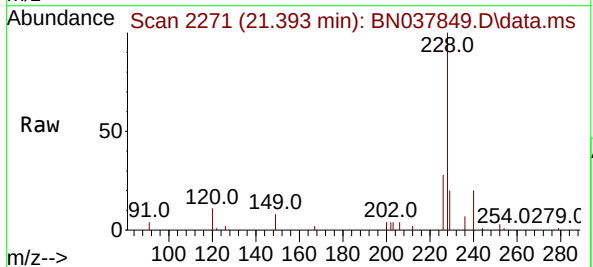
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

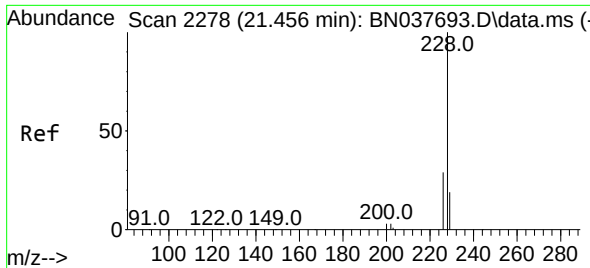
Tgt Ion:244 Resp: 6310
Ion Ratio Lower Upper
244 100
212 10.0 7.5 11.3
122 18.3 13.2 19.8



#32
Benzo(a)anthracene
Concen: 0.370 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:228 Resp: 11214
Ion Ratio Lower Upper
228 100
226 27.7 22.2 33.2
229 20.0 15.8 23.6

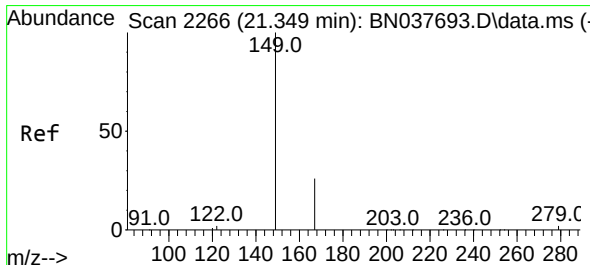
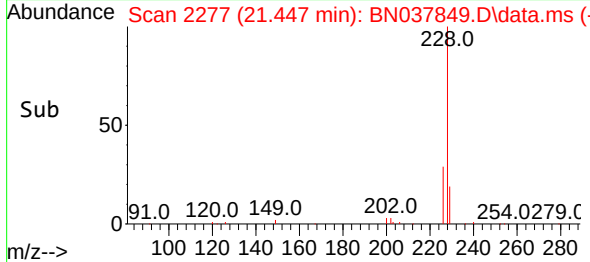
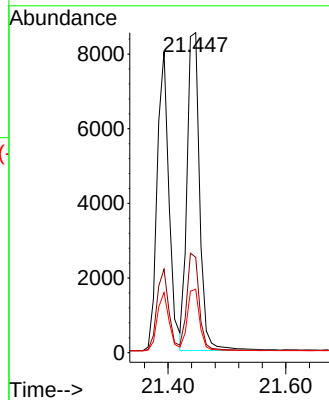
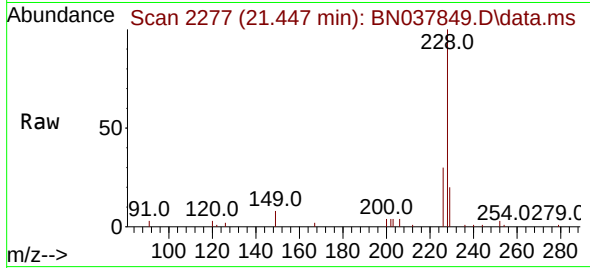




#33
Chrysene
Concen: 0.389 ng
RT: 21.447 min Scan# 21447
Delta R.T. -0.009 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

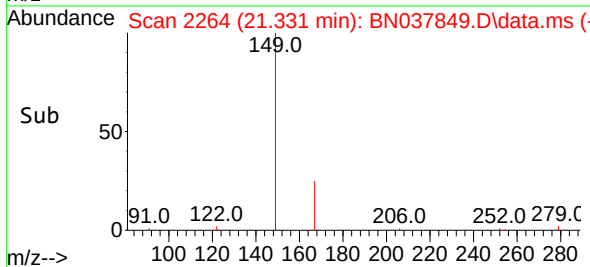
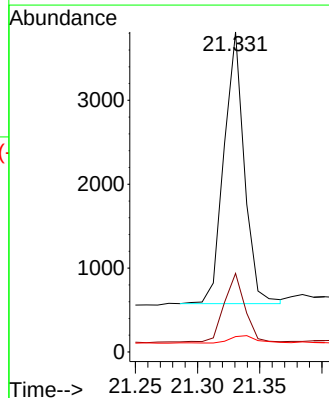
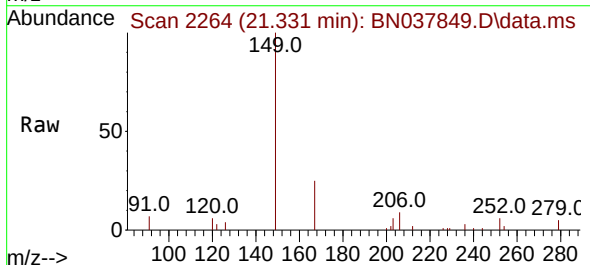
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

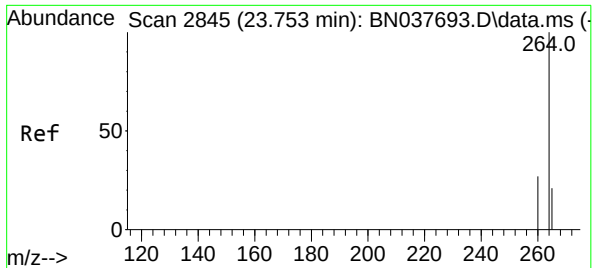
Tgt Ion:	228	Resp:	12655
Ion Ratio	Lower	Upper	
228	100		
226	29.8	23.5	35.3
229	19.9	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.410 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:	149	Resp:	3687
Ion Ratio	Lower	Upper	
149	100		
167	25.4	20.8	31.2
279	3.3	3.3	4.9

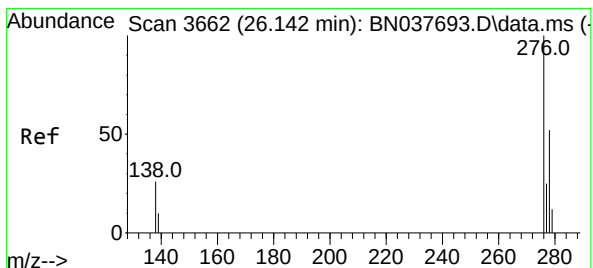
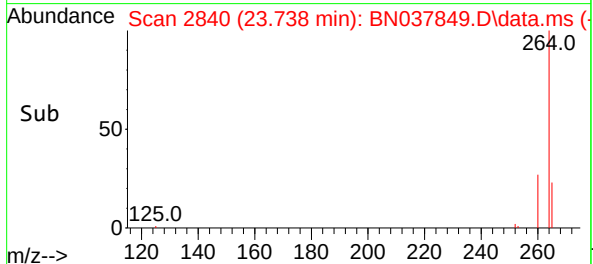
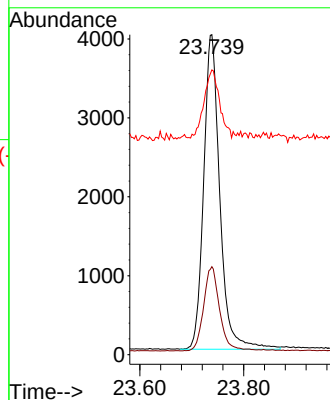
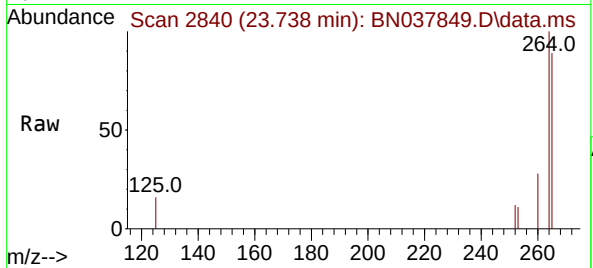




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.738 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

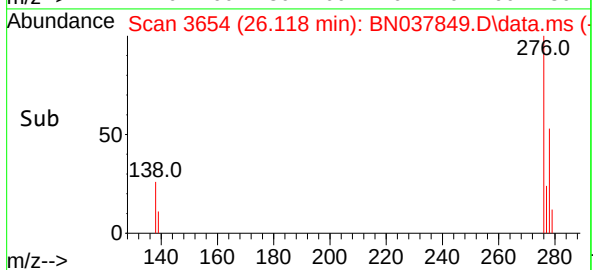
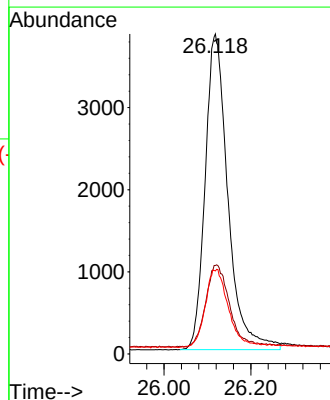
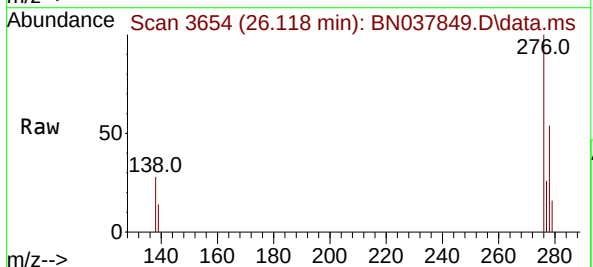
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

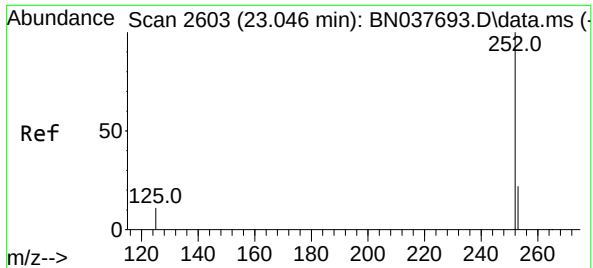
Tgt Ion:264 Resp: 8600
Ion Ratio Lower Upper
264 100
260 27.5 21.8 32.8
265 89.0 39.4 59.2#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.388 ng
RT: 26.118 min Scan# 3654
Delta R.T. -0.023 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:276 Resp: 14013
Ion Ratio Lower Upper
276 100
138 26.6 21.9 32.9
277 25.4 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.394 ng

RT: 23.031 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN037849.D

Acq: 22 Sep 2025 10:19

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

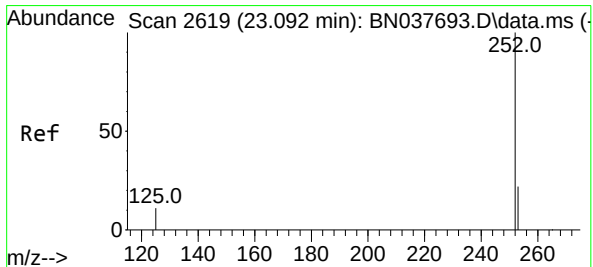
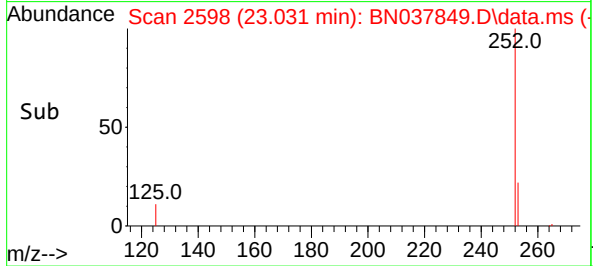
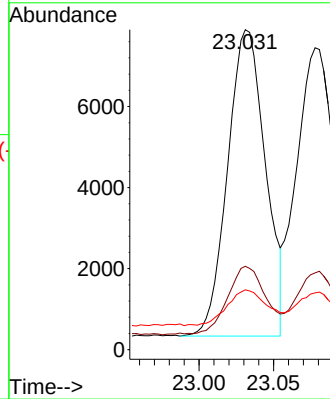
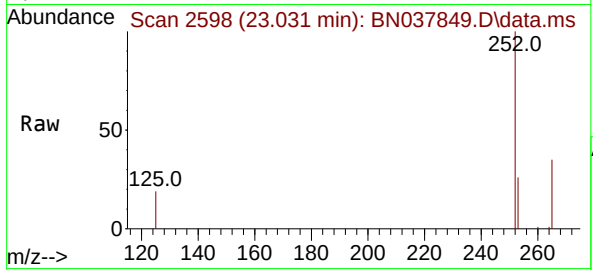
Tgt Ion:252 Resp: 13342

Ion Ratio Lower Upper

252 100

253 26.1 19.4 29.2

125 18.7 11.2 16.8#



#38

Benzo(k)fluoranthene

Concen: 0.382 ng

RT: 23.078 min Scan# 2614

Delta R.T. -0.015 min

Lab File: BN037849.D

Acq: 22 Sep 2025 10:19

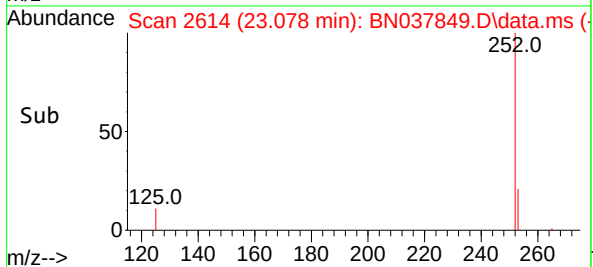
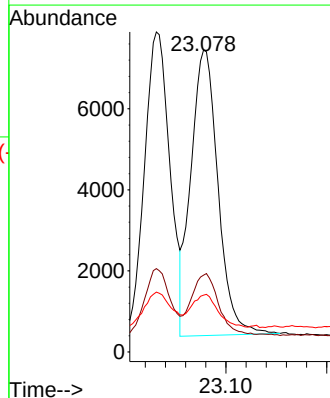
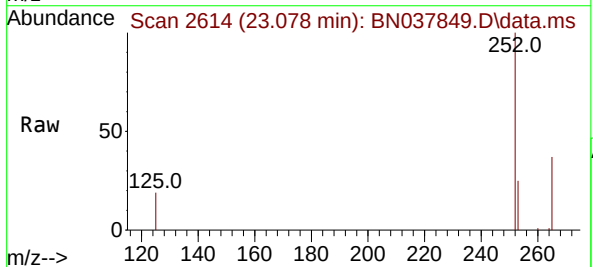
Tgt Ion:252 Resp: 13191

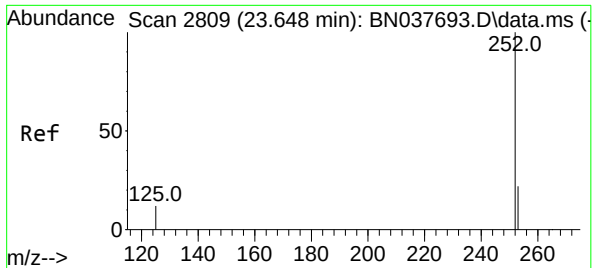
Ion Ratio Lower Upper

252 100

253 25.5 19.4 29.0

125 18.8 11.6 17.4#





#39

Benzo(a)pyrene

Concen: 0.391 ng

RT: 23.633 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN037849.D

Acq: 22 Sep 2025 10:19

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

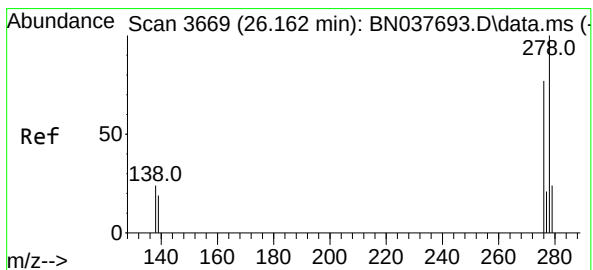
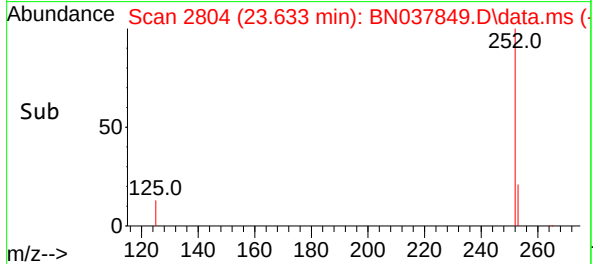
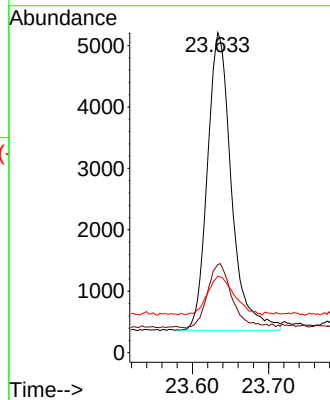
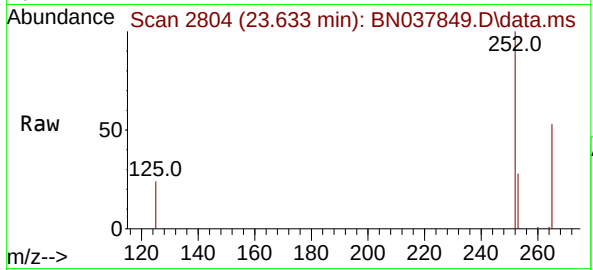
Tgt Ion:252 Resp: 10590

Ion Ratio Lower Upper

252 100

253 27.5 20.8 31.2

125 23.9 13.9 20.9#



#40

Dibenzo(a,h)anthracene

Concen: 0.365 ng

RT: 26.136 min Scan# 3660

Delta R.T. -0.026 min

Lab File: BN037849.D

Acq: 22 Sep 2025 10:19

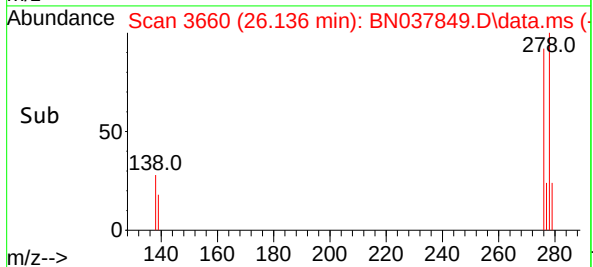
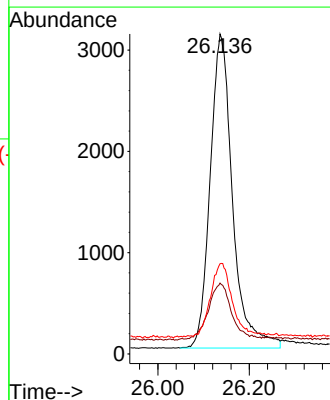
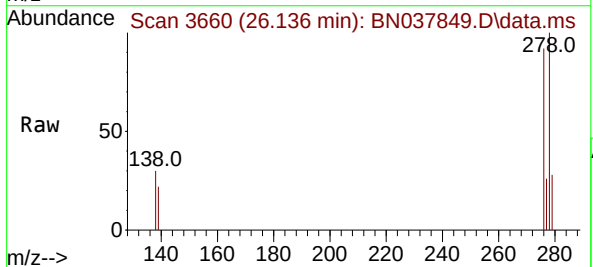
Tgt Ion:278 Resp: 10527

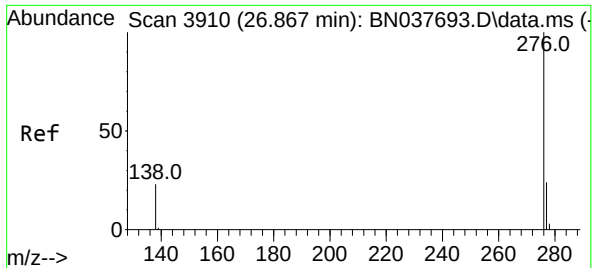
Ion Ratio Lower Upper

278 100

139 22.2 17.8 26.6

279 28.2 22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 0.398 ng

RT: 26.841 min Scan# 3910

Delta R.T. -0.026 min

Lab File: BN037849.D

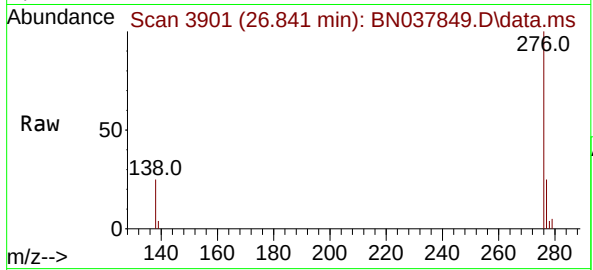
Acq: 22 Sep 2025 10:19

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



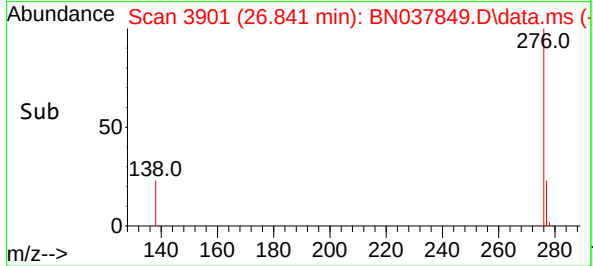
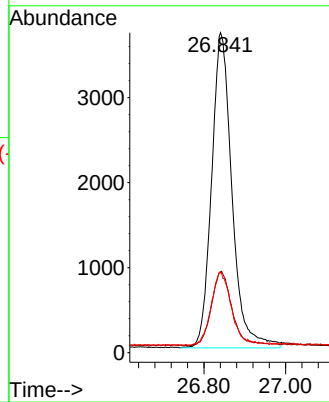
Tgt Ion:276 Resp: 12869

Ion Ratio Lower Upper

276 100

277 25.0 20.6 31.0

138 25.3 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
 Data File : BN037849.D
 Acq On : 22 Sep 2025 10:19
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 22 11:54:46 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	120	0.00
2	1,4-Dioxane	0.417	0.420	-0.7	120	0.00
3	n-Nitrosodimethylamine	0.544	0.507	6.8	108	0.00
4 S	2-Fluorophenol	0.918	0.898	2.2	121	0.00
5 S	Phenol-d6	1.191	1.119	6.0	116	0.00
6	bis(2-Chloroethyl)ether	1.064	1.050	1.3	118	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	120	-0.01
8 S	Nitrobenzene-d5	0.293	0.294	-0.3	124	-0.01
9	Naphthalene	1.093	1.054	3.6	118	-0.01
10	Hexachlorobutadiene	0.198	0.186	6.1	113	-0.01
11 SURR	2-Methylnaphthalene-d10	0.530	0.554	-4.5	134	-0.02
12	2-Methylnaphthalene	0.676	0.634	6.2	116	-0.01
13 I	Acenaphthene-d10	1.000	1.000	0.0	113	-0.01
14 S	2,4,6-Tribromophenol	0.104	0.116	-11.5	130	-0.01
15 S	2-Fluorobiphenyl	1.673	1.673	0.0	115	-0.01
16	Acenaphthylene	1.834	1.680	8.4	107	-0.01
17	Acenaphthene	1.240	1.189	4.1	111	-0.01
18	Fluorene	1.502	1.345	10.5	106	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	99	-0.01
20	4,6-Dinitro-2-methylphenol	0.037	0.027	27.0#	82	-0.01
21	4-Bromophenyl-phenylether	0.261	0.256	1.9	101	-0.01
22	Hexachlorobenzene	0.300	0.329	-9.7	111	-0.01
23	Atrazine	0.166	0.147	11.4	96	-0.01
24	Pentachlorophenol	0.087	0.095	-9.2	127	-0.01
25	Phenanthrene	1.259	1.214	3.6	98	-0.01
26	Anthracene	1.116	1.020	8.6	95	-0.01
27 SURR	Fluoranthene-d10	1.004	0.954	5.0	101	-0.01
28	Fluoranthene	1.381	1.190	13.8	90	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	93	0.00
30	Pyrene	1.566	1.508	3.7	90	0.00
31 S	Terphenyl-d14	0.812	0.726	10.6	84	-0.01
32	Benzo(a)anthracene	1.395	1.291	7.5	89	0.00
33	Chrysene	1.496	1.457	2.6	90	0.00
34	Bis(2-ethylhexyl)phthalate	0.414	0.424	-2.4	105	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	96	-0.01
36	Indeno(1,2,3-cd)pyrene	1.681	1.629	3.1	101	-0.02
37	Benzo(b)fluoranthene	1.575	1.551	1.5	96	-0.01
38	Benzo(k)fluoranthene	1.606	1.534	4.5	97	-0.01
39 C	Benzo(a)pyrene	1.261	1.231	2.4	98	-0.01
40	Dibenzo(a,h)anthracene	1.342	1.224	8.8	97	-0.03
41	Benzo(g,h,i)perylene	1.506	1.496	0.7	99	-0.03

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037849.D
Acq On : 22 Sep 2025 10:19
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 22 11:54:46 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	120	0.00
2	1,4-Dioxane	0.400	0.403	-0.8	120	0.00
3	n-Nitrosodimethylamine	0.400	0.373	6.8	108	0.00
4 S	2-Fluorophenol	0.400	0.391	2.3	121	0.00
5 S	Phenol-d6	0.400	0.376	6.0	116	0.00
6	bis(2-Chloroethyl)ether	0.400	0.395	1.3	118	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	120	-0.01
8 S	Nitrobenzene-d5	0.400	0.403	-0.8	124	-0.01
9	Naphthalene	0.400	0.386	3.5	118	-0.01
10	Hexachlorobutadiene	0.400	0.377	5.8	113	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.418	-4.5	134	-0.02
12	2-Methylnaphthalene	0.400	0.375	6.3	116	-0.01
13 I	Acenaphthene-d10	0.400	0.400	0.0	113	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.443	-10.7	130	-0.01
15 S	2-Fluorobiphenyl	0.400	0.400	0.0	115	-0.01
16	Acenaphthylene	0.400	0.366	8.5	107	-0.01
17	Acenaphthene	0.400	0.383	4.3	111	-0.01
18	Fluorene	0.400	0.358	10.5	106	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	99	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.295	26.3#	82	-0.01
21	4-Bromophenyl-phenylether	0.400	0.393	1.8	101	-0.01
22	Hexachlorobenzene	0.400	0.439	-9.7	111	-0.01
23	Atrazine	0.400	0.354	11.5	96	-0.01
24	Pentachlorophenol	0.400	0.437	-9.2	127	-0.01
25	Phenanthrene	0.400	0.386	3.5	98	-0.01
26	Anthracene	0.400	0.366	8.5	95	-0.01
27 SURR	Fluoranthene-d10	0.400	0.380	5.0	101	-0.01
28	Fluoranthene	0.400	0.345	13.8	90	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	93	0.00
30	Pyrene	0.400	0.385	3.8	90	0.00
31 S	Terphenyl-d14	0.400	0.358	10.5	84	-0.01
32	Benzo(a)anthracene	0.400	0.370	7.5	89	0.00
33	Chrysene	0.400	0.389	2.8	90	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.410	-2.5	105	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	96	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.388	3.0	101	-0.02
37	Benzo(b)fluoranthene	0.400	0.394	1.5	96	-0.01
38	Benzo(k)fluoranthene	0.400	0.382	4.5	97	-0.01
39 C	Benzo(a)pyrene	0.400	0.391	2.3	98	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.365	8.8	97	-0.03
41	Benzo(g,h,i)perylene	0.400	0.398	0.5	99	-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: Alliance Contract: AECO15
 Lab Code: ACE SDG No.: Q3127
 Instrument ID: BNA_N Calibration Date/Time: 09/22/2025 16:39
 Lab File ID: BN037859.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	0.557		5.1	50.0
Fluoranthene-d10	1.004	0.898		-10.6	50.0
2-Fluorophenol	0.918	0.869		-5.3	50.0
Phenol-d6	1.191	1.146		-3.8	50.0
Nitrobenzene-d5	0.293	0.293		0.0	50.0
2-Fluorobiphenyl	1.673	1.607		-3.9	50.0
2,4,6-Tribromophenol	0.104	0.108		3.8	50.0
Terphenyl-d14	0.812	0.784		-3.4	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\BN092225\
 Data File : BN037859.D
 Acq On : 22 Sep 2025 16:39
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Sep 22 17:47:54 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 14:20:01 2025
 Response via : Initial Calibration

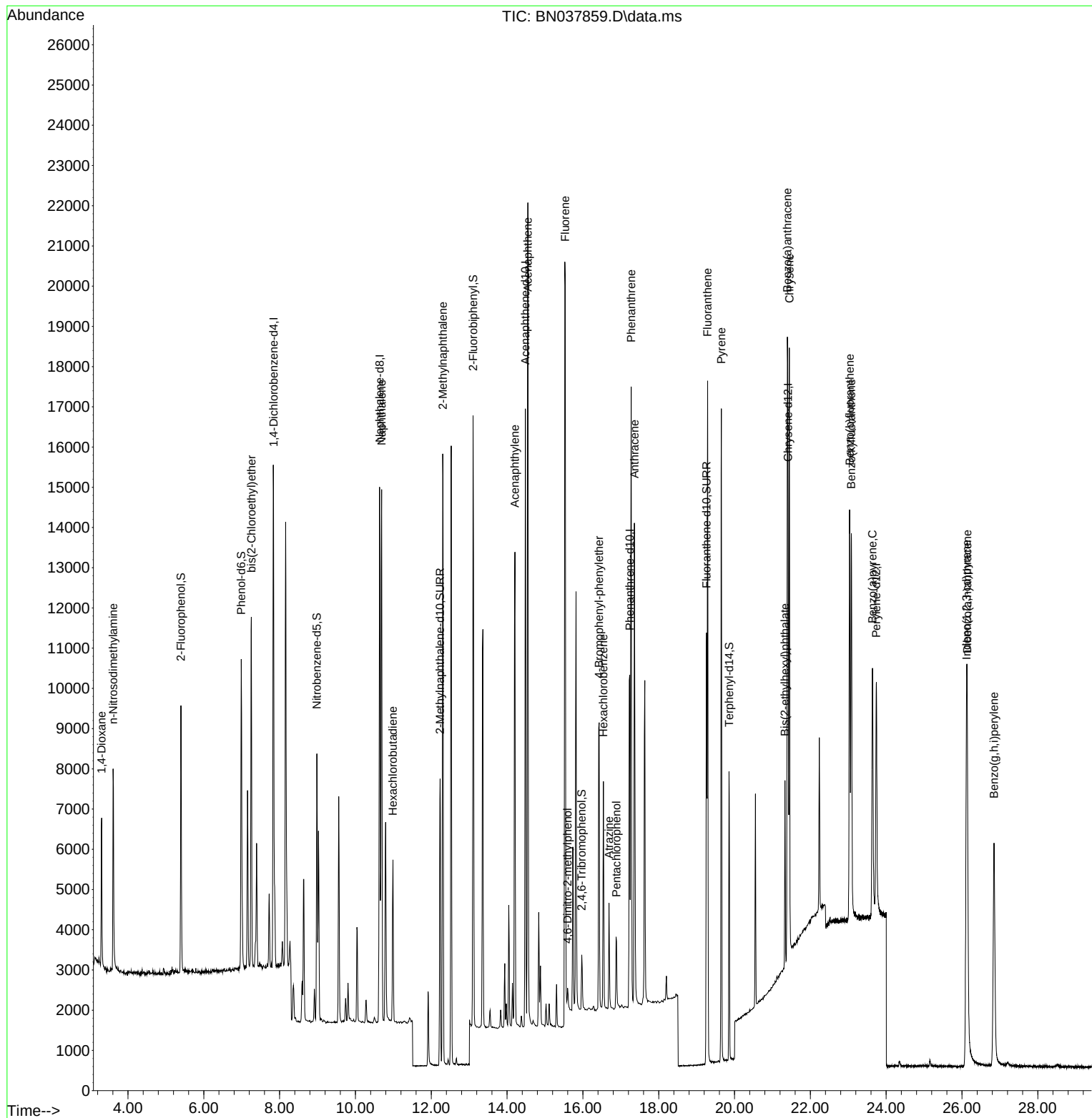
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	6093	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	17206	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	8151	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	13180	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	8747	0.400	ng	# 0.00
35) Perylene-d12	23.741	264	8334	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	5297	0.379	ng	0.00
5) Phenol-d6	6.988	99	6980	0.385	ng	0.00
8) Nitrobenzene-d5	8.982	82	5049	0.401	ng	-0.01
11) 2-Methylnaphthalene-d10	12.232	152	9581	0.420	ng	-0.01
14) 2,4,6-Tribromophenol	15.969	330	883	0.415	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	13098	0.384	ng	-0.01
27) Fluoranthene-d10	19.262	212	11839	0.358	ng	0.00
31) Terphenyl-d14	19.856	244	6860	0.386	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.304	88	2405	0.379	ng	98
3) n-Nitrosodimethylamine	3.608	42	3273	0.395	ng	# 99
6) bis(2-Chloroethyl)ether	7.255	93	6373	0.393	ng	99
9) Naphthalene	10.690	128	17964	0.382	ng	99
10) Hexachlorobutadiene	10.989	225	3100	0.364	ng	# 98
12) 2-Methylnaphthalene	12.303	142	10998	0.378	ng	99
16) Acenaphthylene	14.206	152	13513	0.362	ng	100
17) Acenaphthene	14.548	154	9564	0.378	ng	96
18) Fluorene	15.535	166	11044	0.361	ng	99
20) 4,6-Dinitro-2-methylph...	15.597	198	351	0.288	ng	# 61
21) 4-Bromophenyl-phenylether	16.428	248	3270	0.380	ng	# 96
22) Hexachlorobenzene	16.540	284	4334	0.438	ng	97
23) Atrazine	16.689	200	2035	0.372	ng	94
24) Pentachlorophenol	16.888	266	1020	0.355	ng	99
25) Phenanthrene	17.272	178	15736	0.379	ng	99
26) Anthracene	17.359	178	13062	0.355	ng	99
28) Fluoranthene	19.290	202	14576	0.320	ng	99
30) Pyrene	19.652	202	14184	0.414	ng	100
32) Benzo(a)anthracene	21.393	228	11168	0.366	ng	100
33) Chrysene	21.447	228	12595	0.385	ng	99
34) Bis(2-ethylhexyl)phtha...	21.330	149	4030	0.446	ng	99
36) Indeno(1,2,3-cd)pyrene	26.118	276	13892	0.397	ng	99
37) Benzo(b)fluoranthene	23.037	252	13229	0.403	ng	# 94
38) Benzo(k)fluoranthene	23.081	252	13409	0.401	ng	# 94
39) Benzo(a)pyrene	23.639	252	10067	0.383	ng	# 89
40) Dibenzo(a,h)anthracene	26.139	278	10511	0.376	ng	99
41) Benzo(g,h,i)perylene	26.846	276	12358	0.394	ng	99

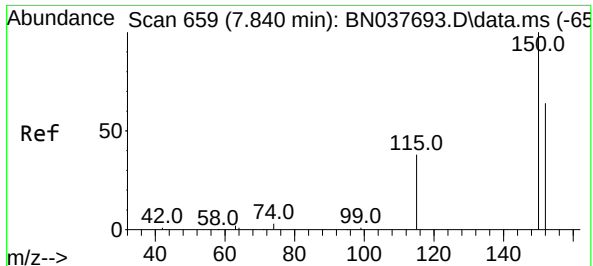
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037859.D
Acq On : 22 Sep 2025 16:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Sep 22 17:47:54 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 14:20:01 2025
Response via : Initial Calibration

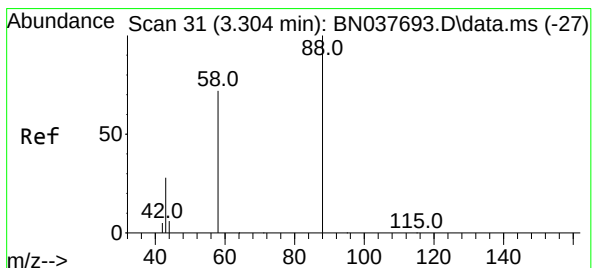
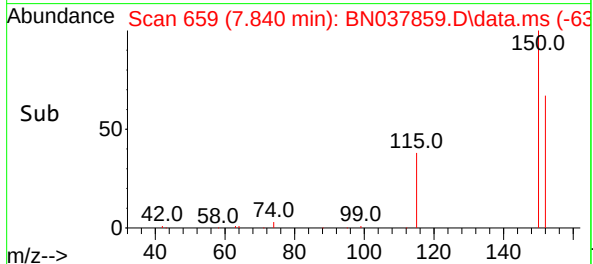
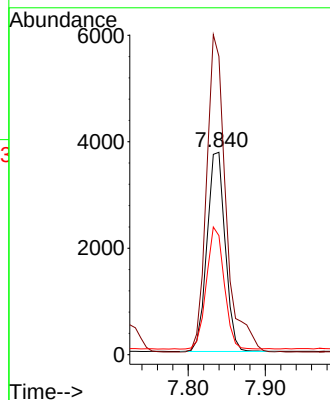
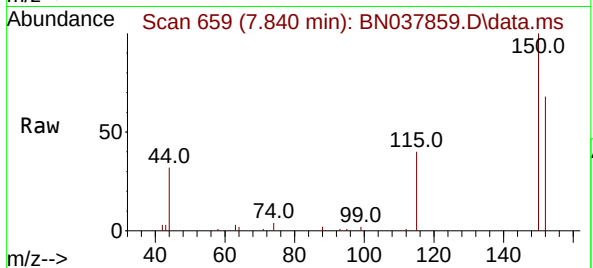




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

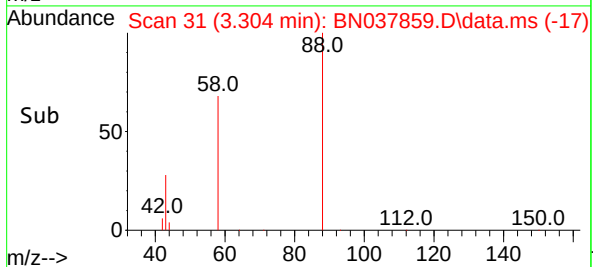
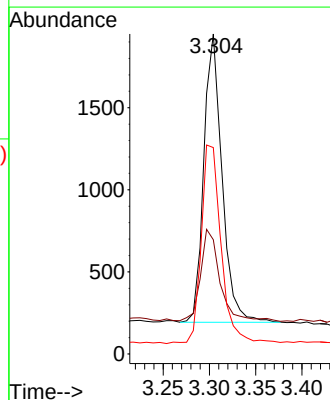
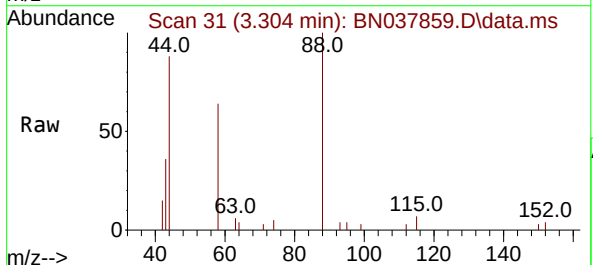
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

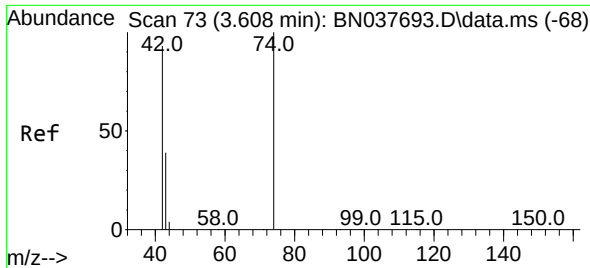
Tgt Ion:152 Resp: 6093
Ion Ratio Lower Upper
152 100
150 147.4 124.5 186.7
115 58.8 49.2 73.8



#2
1,4-Dioxane
Concen: 0.379 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion: 88 Resp: 2405
Ion Ratio Lower Upper
88 100
43 33.8 26.8 40.2
58 75.4 61.9 92.9

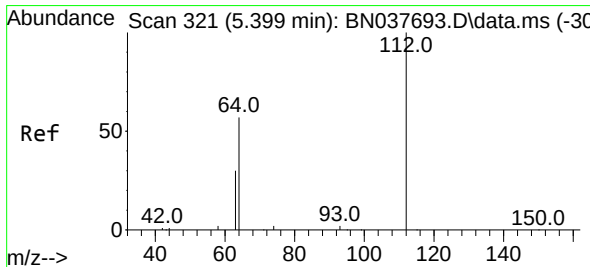
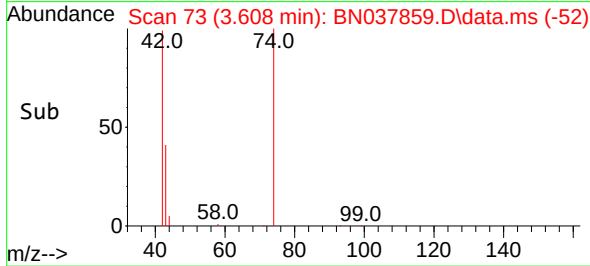
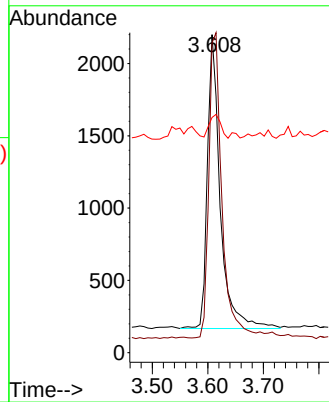
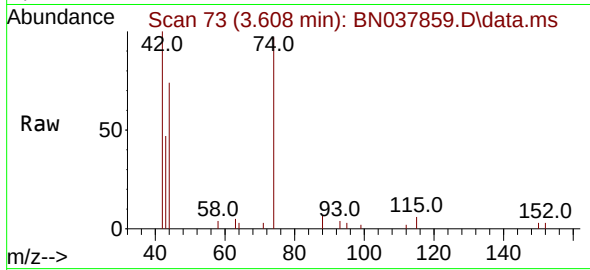




#3
n-Nitrosodimethylamine
Concen: 0.395 ng
RT: 3.608 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

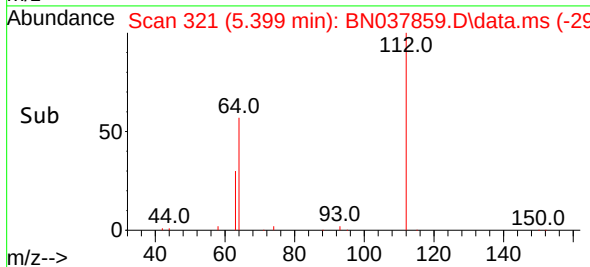
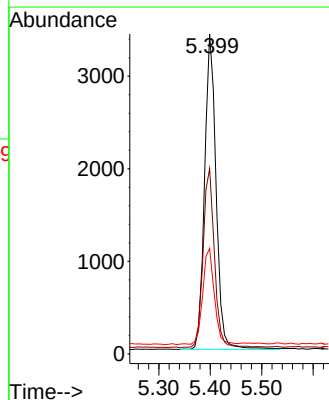
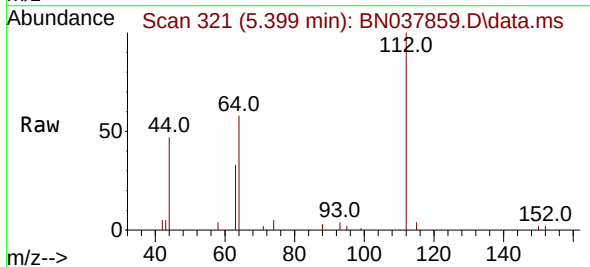
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

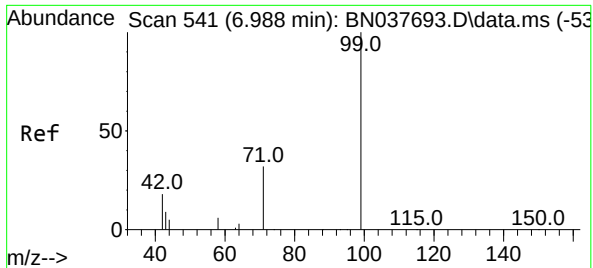
Tgt Ion: 42 Resp: 3273
Ion Ratio Lower Upper
42 100
74 107.8 86.0 129.0
44 7.1 8.4 12.6#



#4
2-Fluorophenol
Concen: 0.379 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion: 112 Resp: 5297
Ion Ratio Lower Upper
112 100
64 56.9 44.9 67.3
63 30.7 24.7 37.1

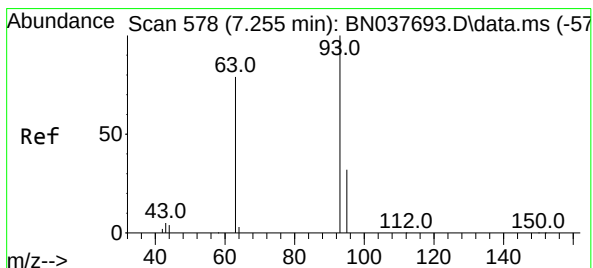
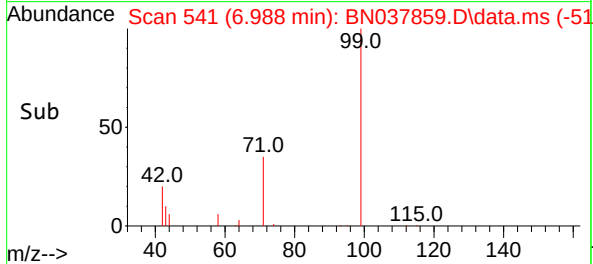
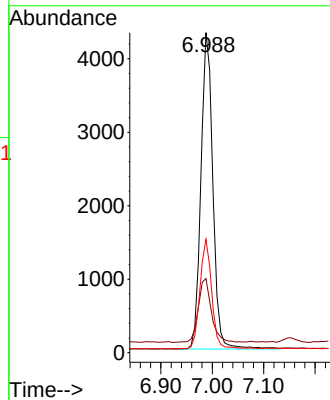
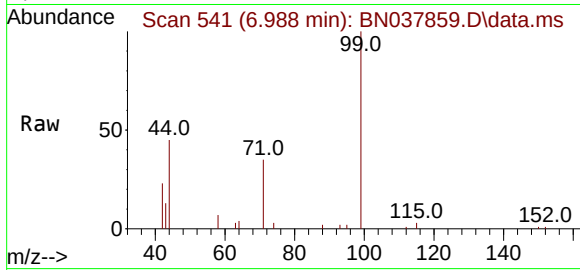




#5
Phenol-d6
Concen: 0.385 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

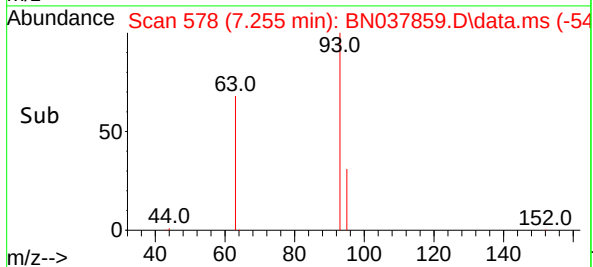
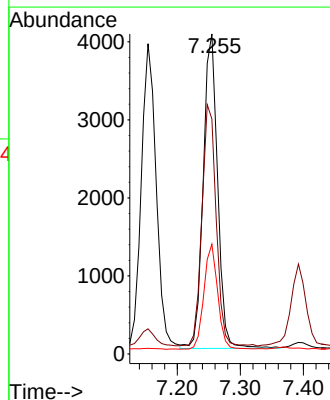
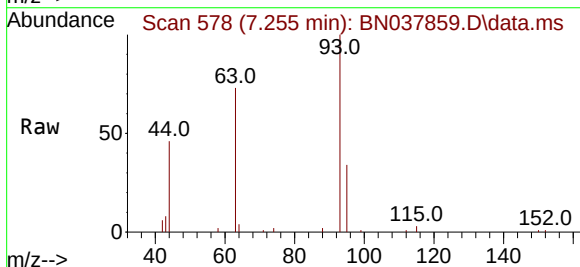
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BNA_N
ClientSampleId :
SSTDCCC0.4EC

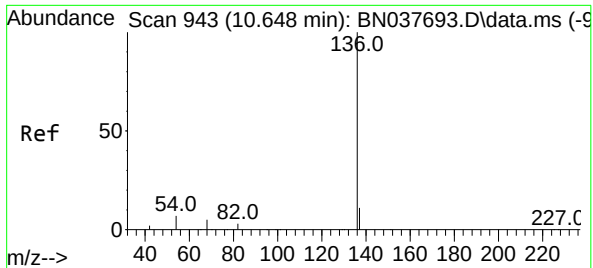
Tgt Ion: 99 Resp: 6980
Ion Ratio Lower Upper
99 100
42 22.1 16.6 24.8
71 33.7 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.393 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion: 93 Resp: 6373
Ion Ratio Lower Upper
93 100
63 76.0 60.6 90.8
95 31.8 26.0 39.0

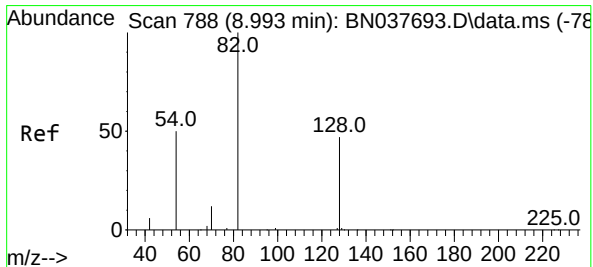
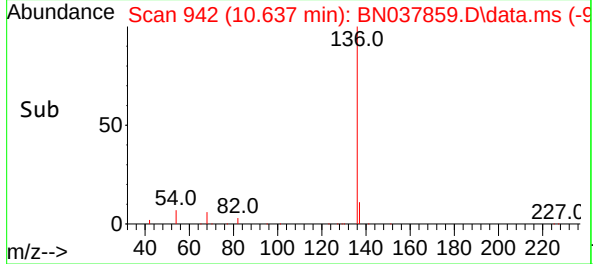
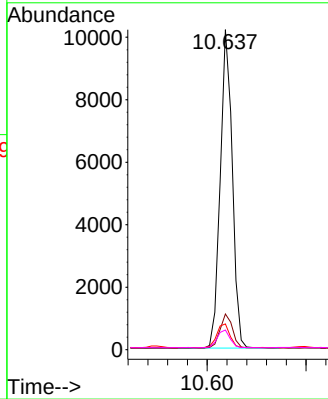
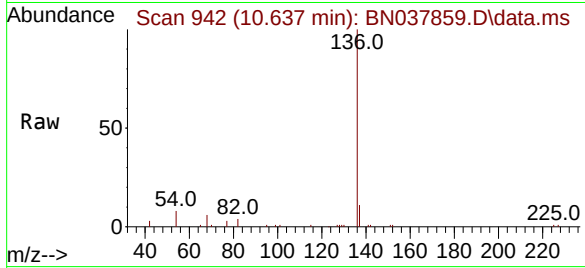




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

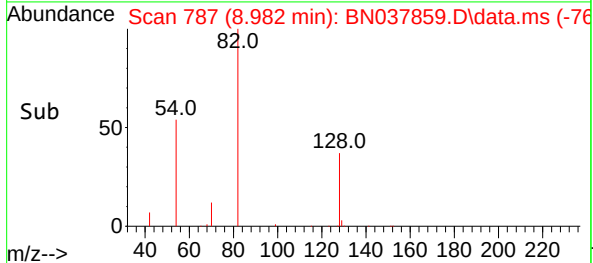
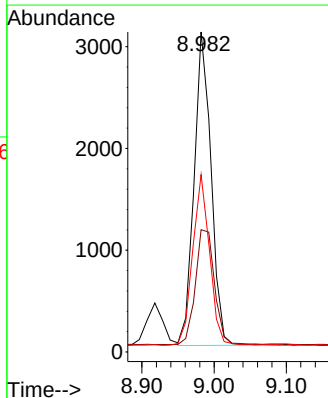
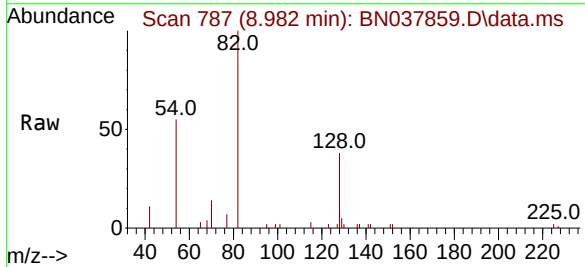
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

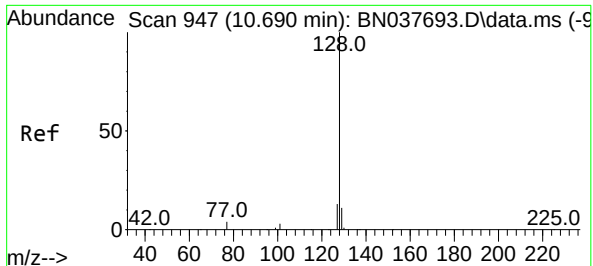
Tgt Ion:	136	Resp:	17206
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.1	13.7
54	8.1	6.3	9.5
68	6.1	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.401 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:	82	Resp:	5049
Ion	Ratio	Lower	Upper
82	100		
128	38.2	38.3	57.5#
54	55.4	41.4	62.2

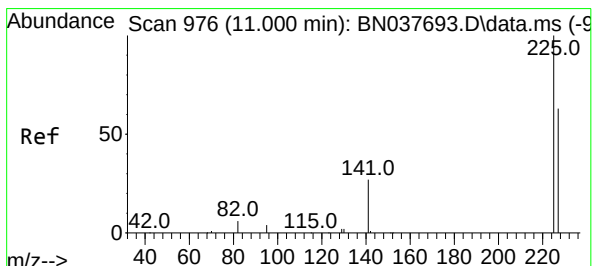
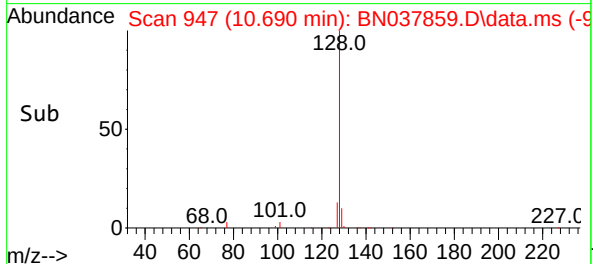
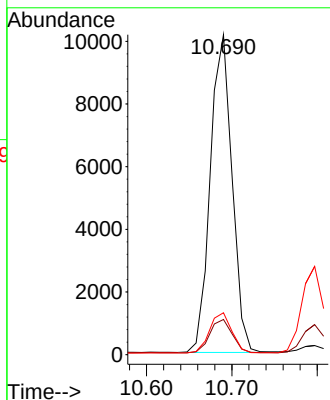
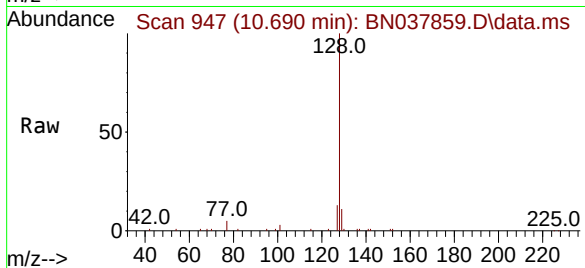




#9
Naphthalene
Concen: 0.382 ng
RT: 10.690 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

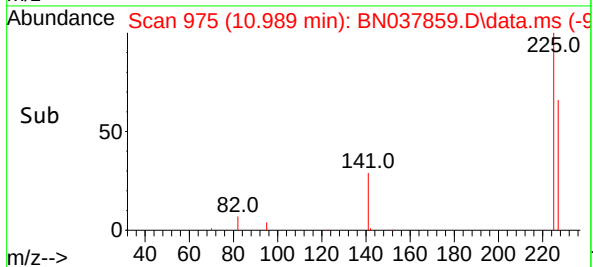
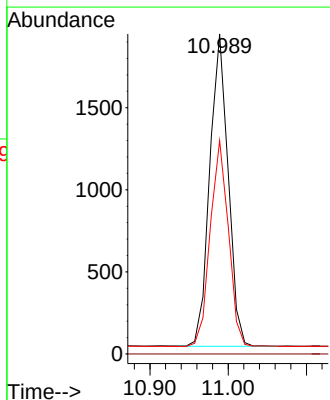
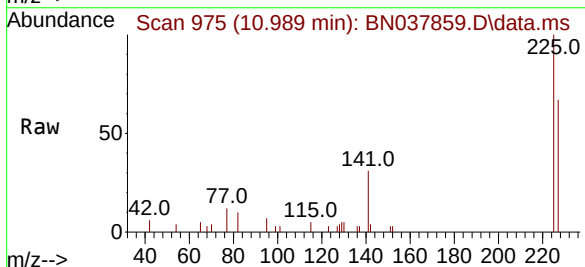
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

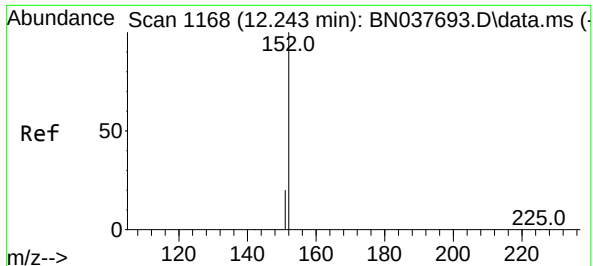
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.1	13.7
127	13.1	10.9	16.3



#10
Hexachlorobutadiene
Concen: 0.364 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.4	50.9	76.3

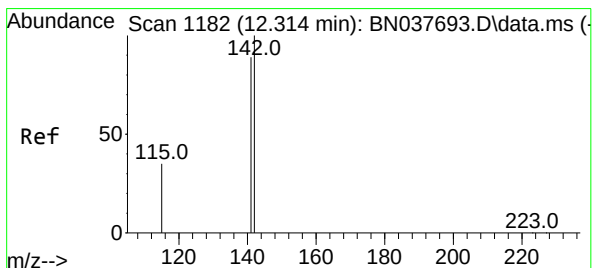
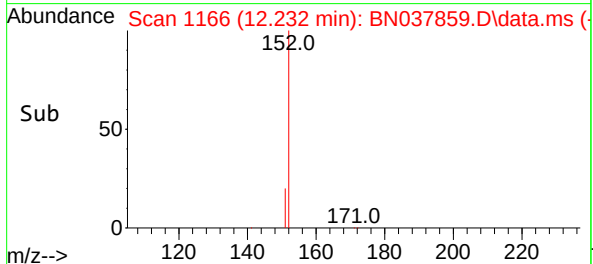
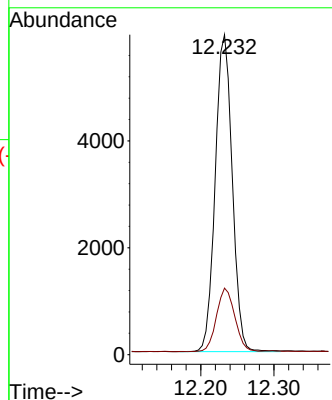
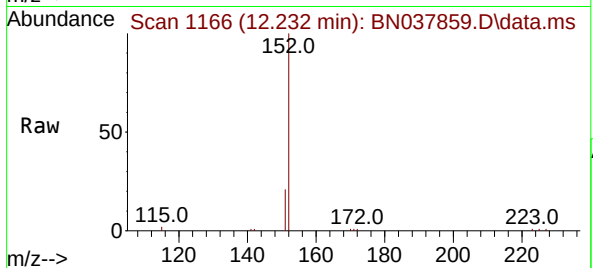




#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 12.232 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

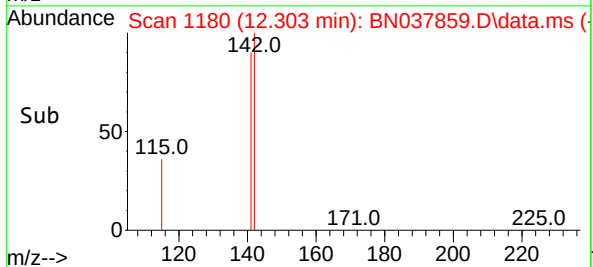
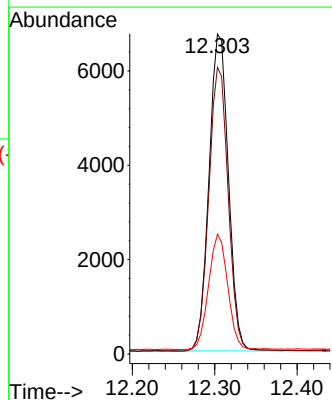
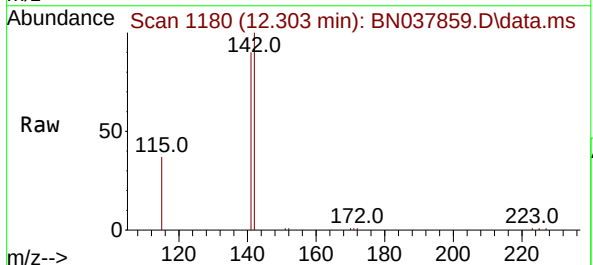
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

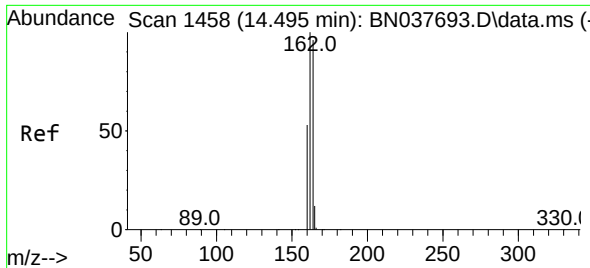
Tgt Ion:152 Resp: 9581
Ion Ratio Lower Upper
152 100
151 21.5 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.378 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:142 Resp: 10998
Ion Ratio Lower Upper
142 100
141 89.6 71.6 107.4
115 37.4 28.6 43.0

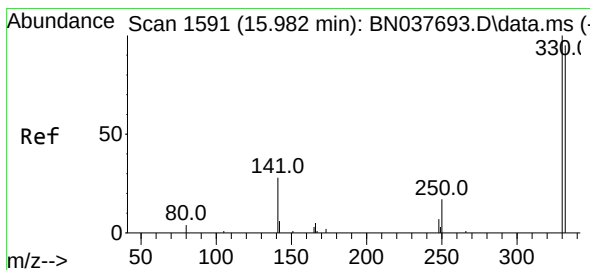
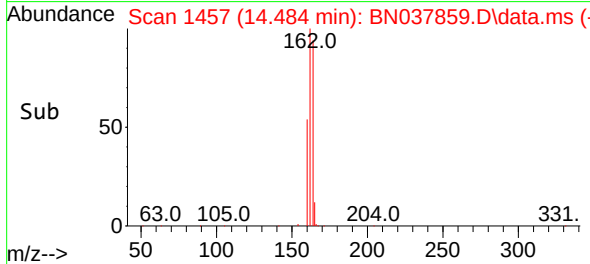
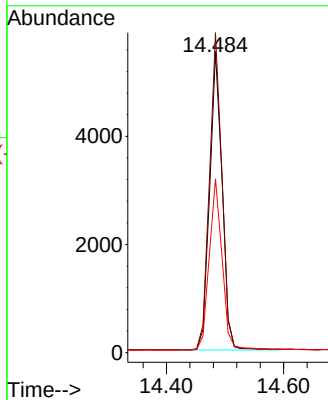
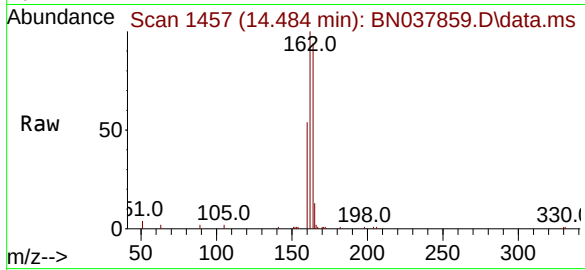




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

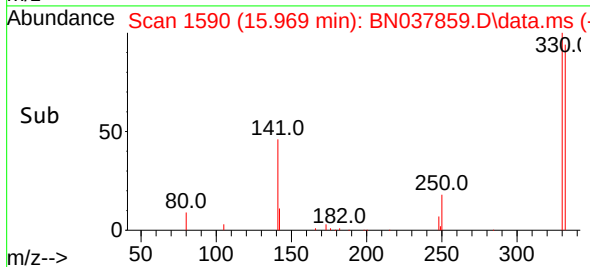
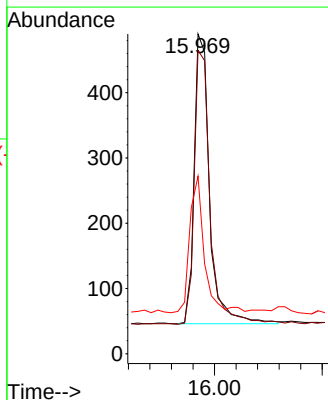
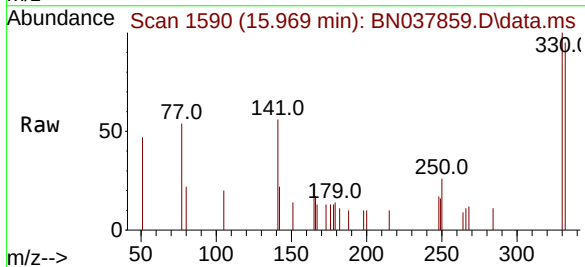
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

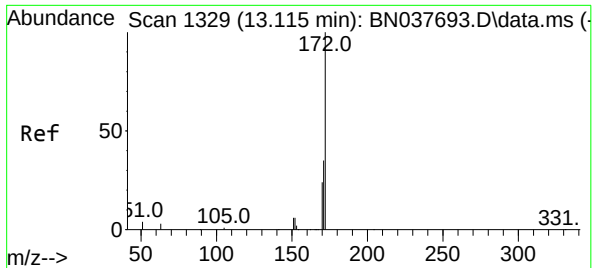
Tgt Ion:	164	Resp:	8151
Ion	Ratio	Lower	Upper
164	100		
162	106.3	83.1	124.7
160	57.7	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.415 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:	330	Resp:	883
Ion	Ratio	Lower	Upper
330	100		
332	97.5	75.3	112.9
141	44.7	35.0	52.4

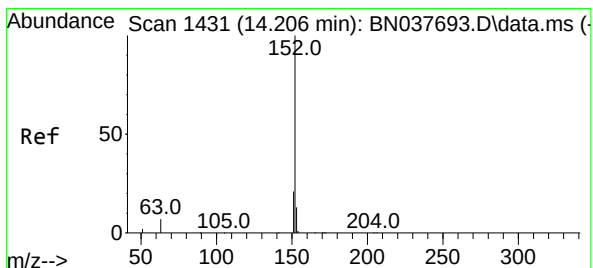
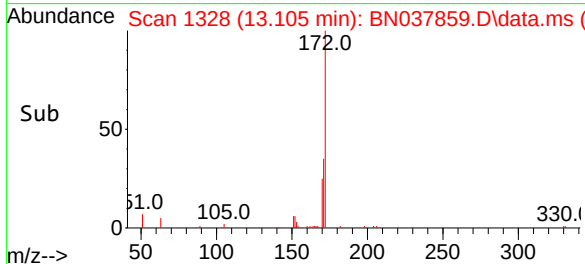
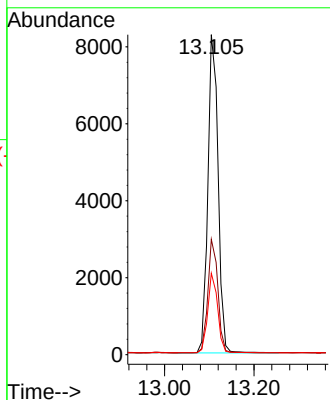
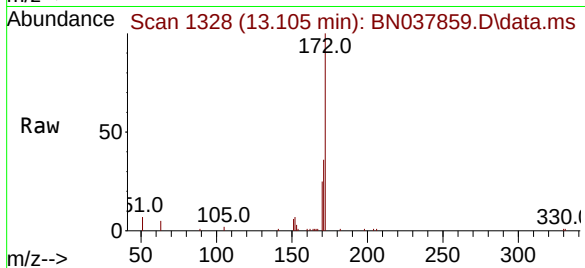




#15
2-Fluorobiphenyl
Concen: 0.384 ng
RT: 13.105 min Scan# 1329
Delta R.T. -0.011 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

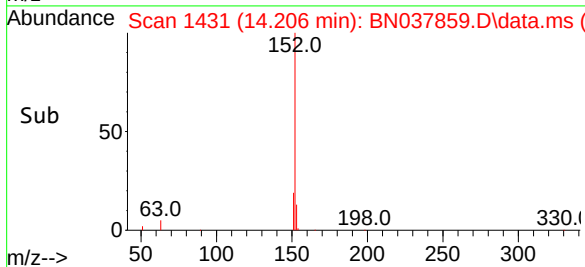
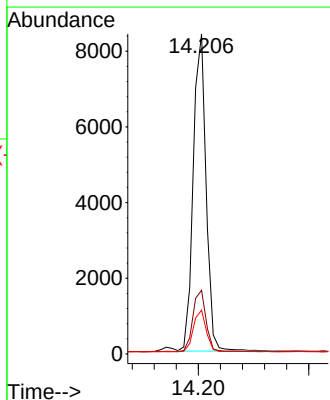
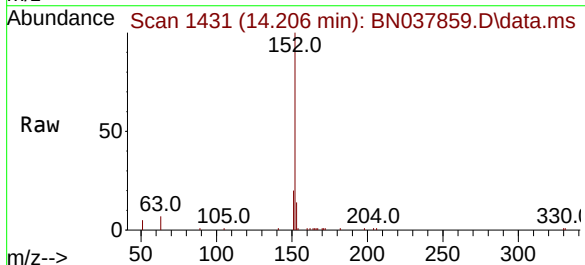
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

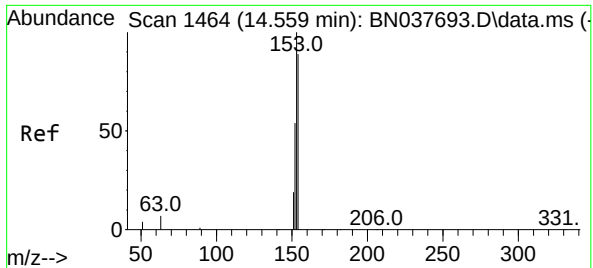
Tgt Ion:	172	Resp:	13098
Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.6	43.0
170	25.5	19.8	29.8



#16
Acenaphthylene
Concen: 0.362 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:	152	Resp:	13513
Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.0	10.4	15.6

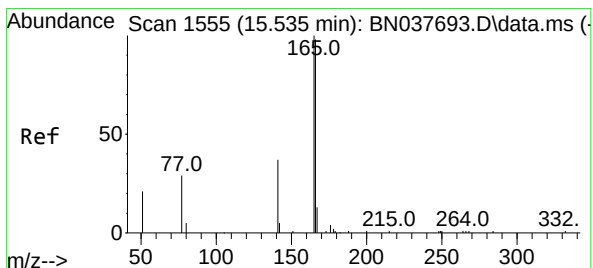
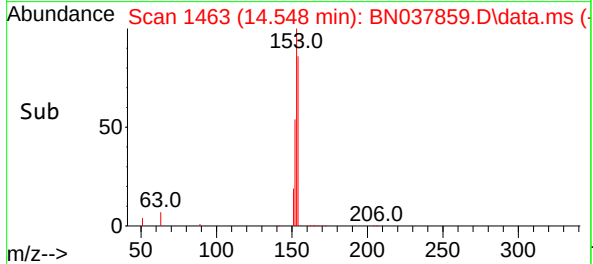
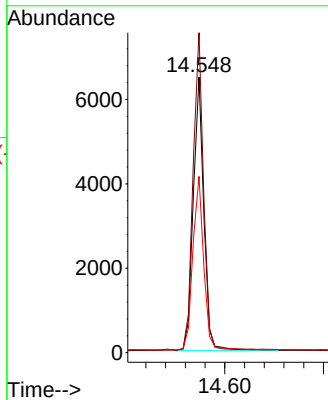
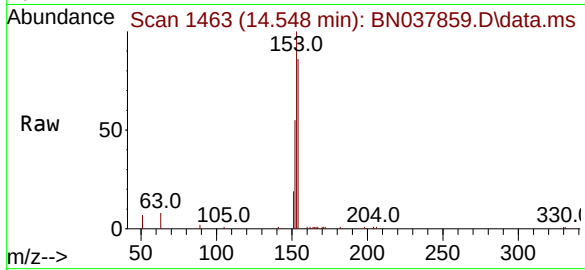




#17
Acenaphthene
Concen: 0.378 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

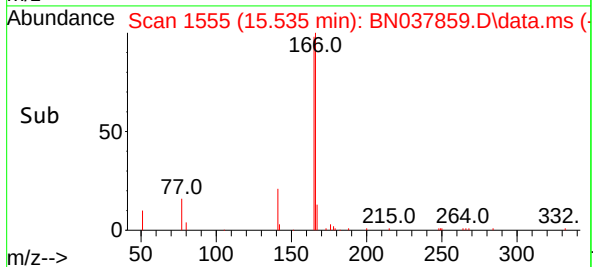
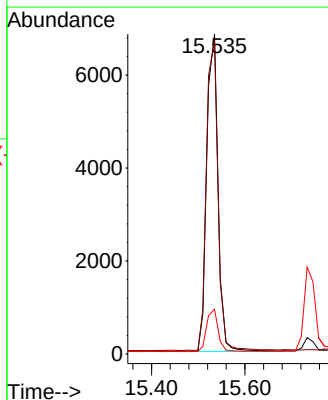
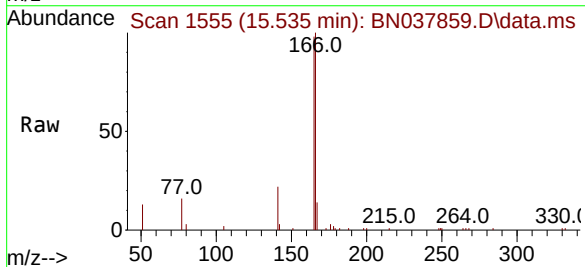
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

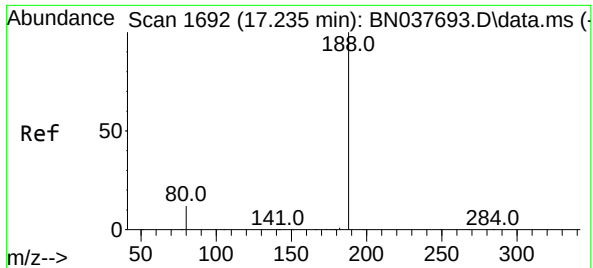
Tgt Ion:154 Resp: 9564
Ion Ratio Lower Upper
154 100
153 115.6 89.8 134.8
152 66.0 50.2 75.2



#18
Fluorene
Concen: 0.361 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:166 Resp: 11044
Ion Ratio Lower Upper
166 100
165 100.6 79.6 119.4
167 13.9 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: BN037859.D

Acq: 22 Sep 2025 16:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

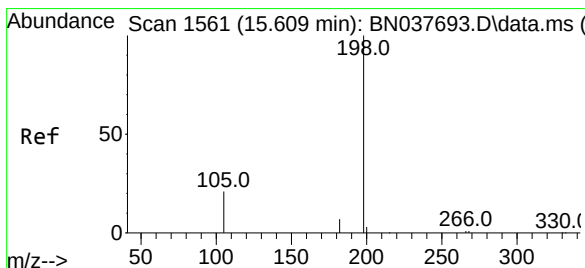
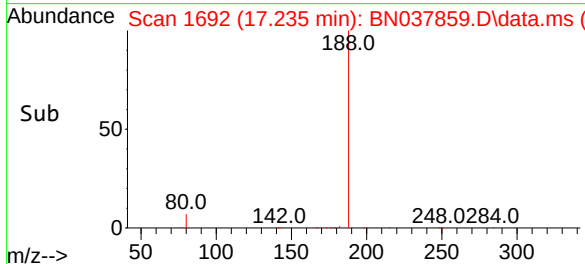
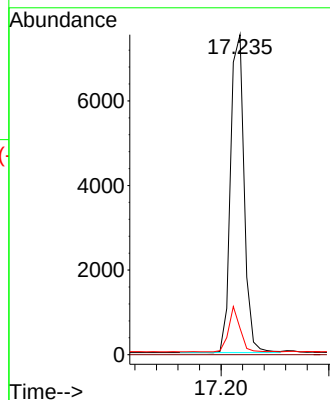
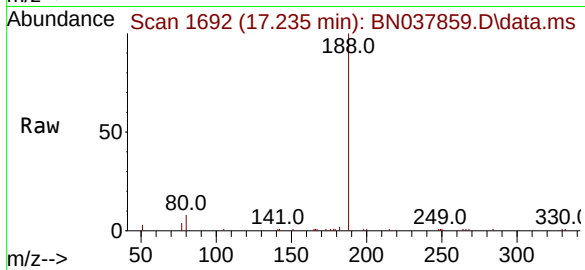
Tgt Ion:188 Resp: 13180

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.2 10.6 15.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.288 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.012 min

Lab File: BN037859.D

Acq: 22 Sep 2025 16:39

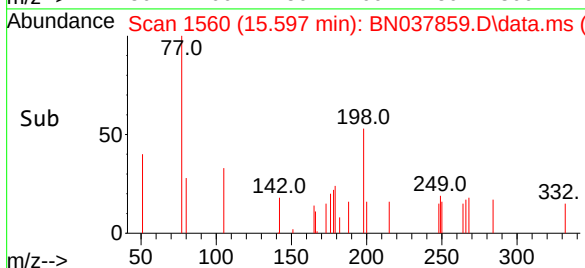
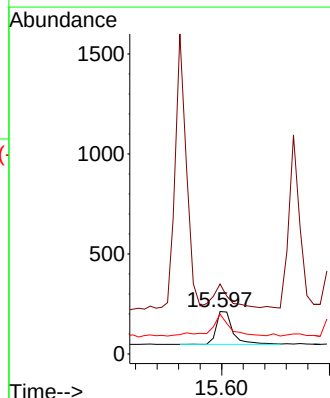
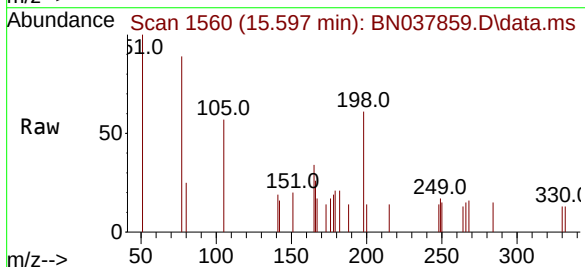
Tgt Ion:198 Resp: 351

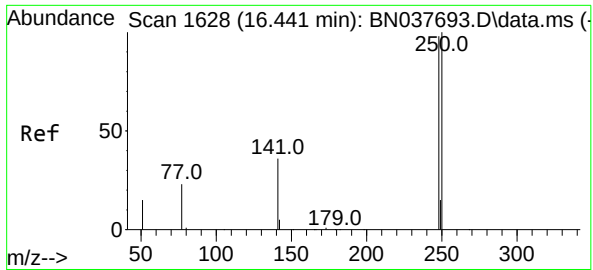
Ion Ratio Lower Upper

198 100

51 165.1 95.1 142.7#

105 93.9 53.8 80.6#

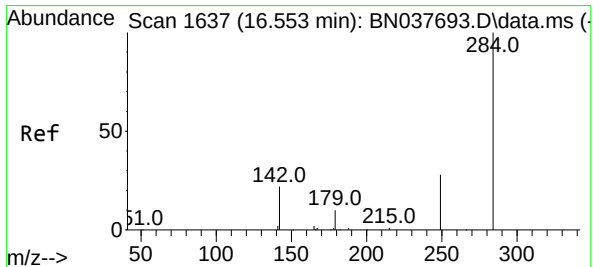
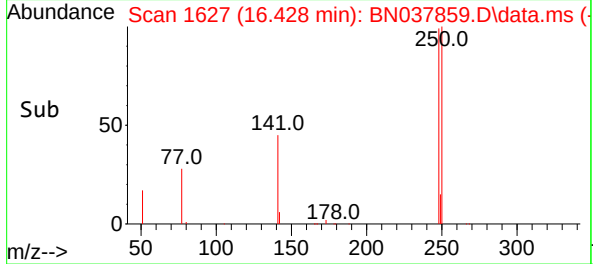
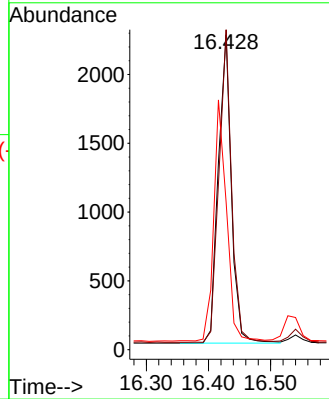
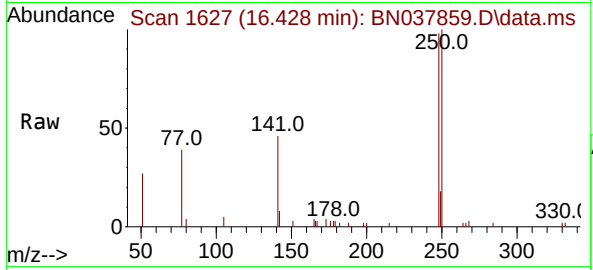




#21
4-Bromophenyl-phenylether
Concen: 0.380 ng
RT: 16.428 min Scan# 1627
Delta R.T. -0.013 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

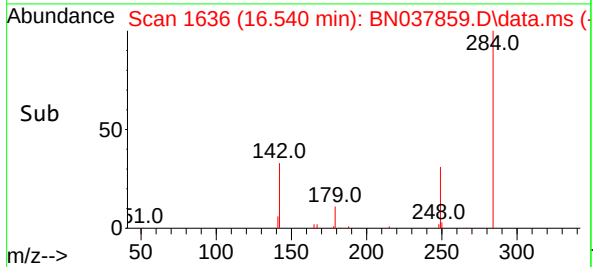
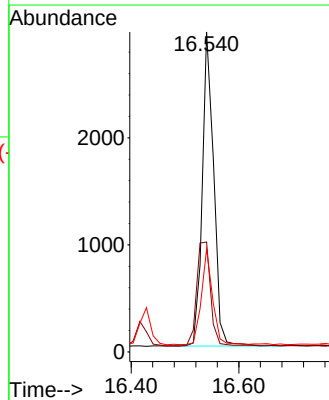
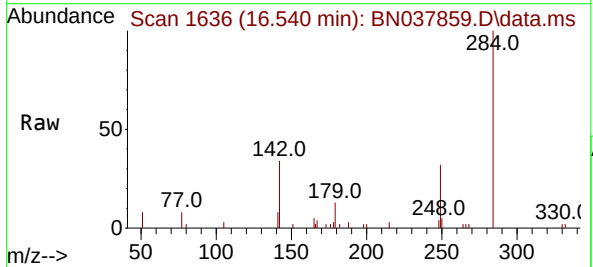
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

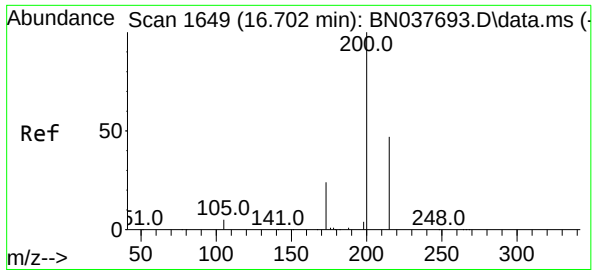
Tgt Ion:248 Resp: 3270
Ion Ratio Lower Upper
248 100
250 101.6 81.5 122.3
141 46.9 30.8 46.2#



#22
Hexachlorobenzene
Concen: 0.438 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:284 Resp: 4334
Ion Ratio Lower Upper
284 100
142 40.2 30.9 46.3
249 29.6 24.8 37.2

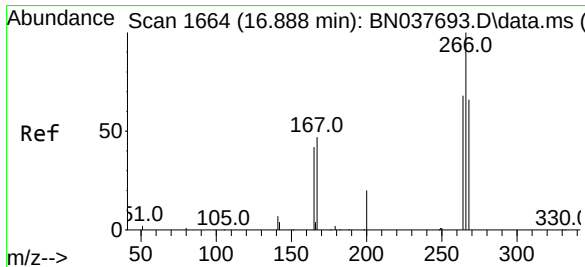
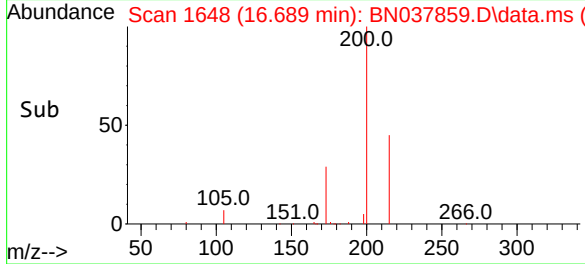
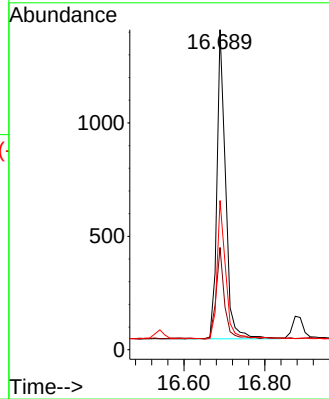
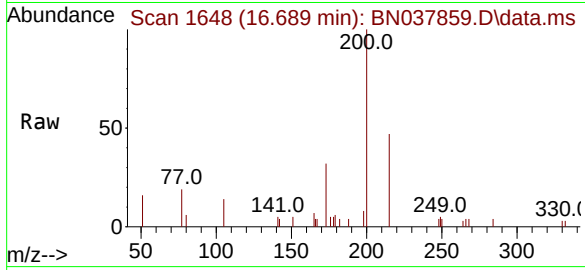




#23
Atrazine
Concen: 0.372 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.013 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

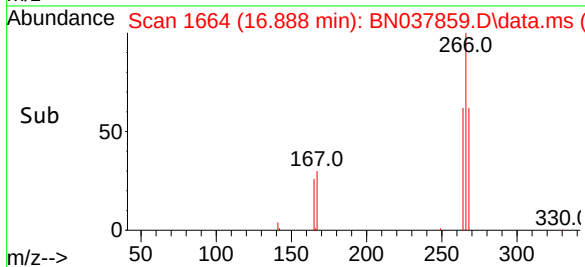
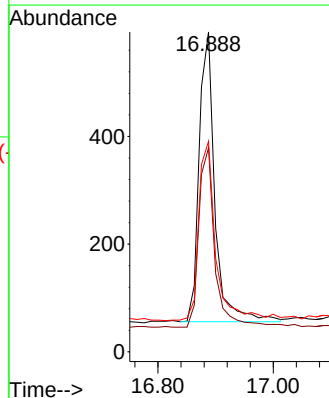
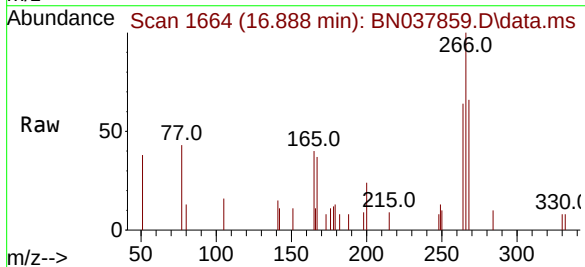
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

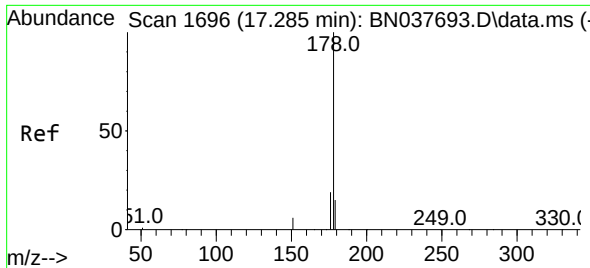
Tgt Ion:200 Resp: 2035
Ion Ratio Lower Upper
200 100
173 32.0 21.4 32.2
215 46.6 39.2 58.8



#24
Pentachlorophenol
Concen: 0.355 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:266 Resp: 1020
Ion Ratio Lower Upper
266 100
264 63.3 51.6 77.4
268 66.8 53.2 79.8

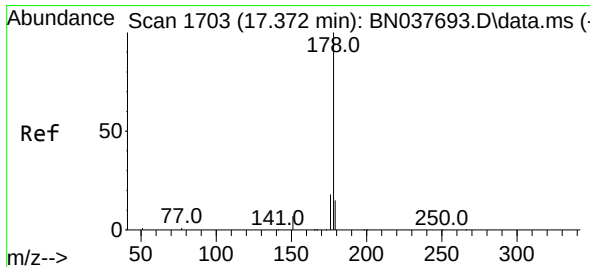
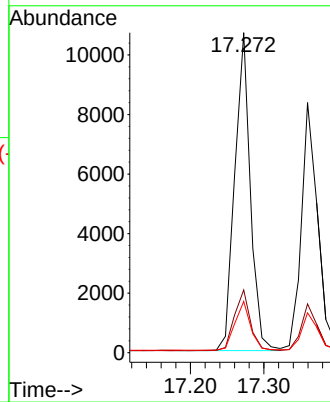
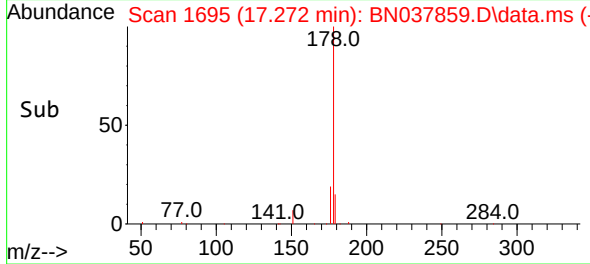
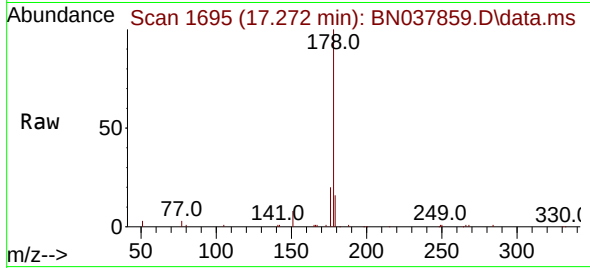




#25
Phenanthrene
Concen: 0.379 ng
RT: 17.272 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

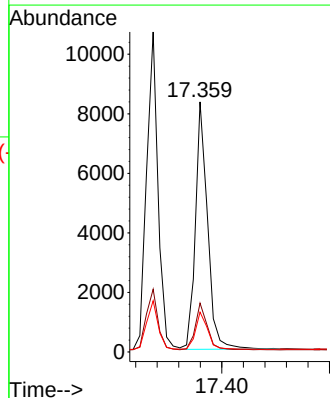
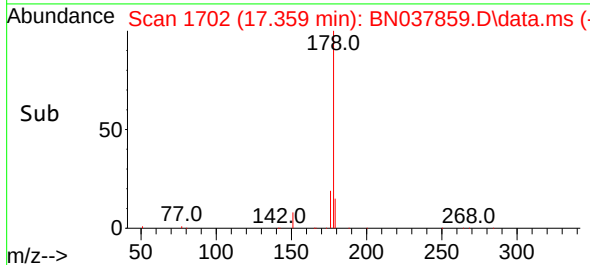
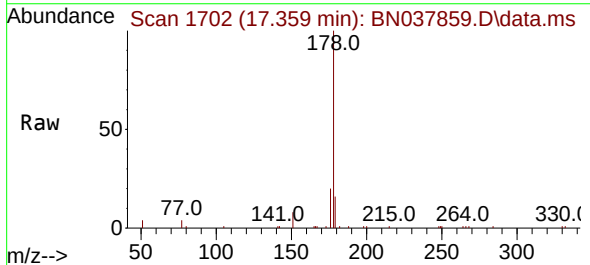
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

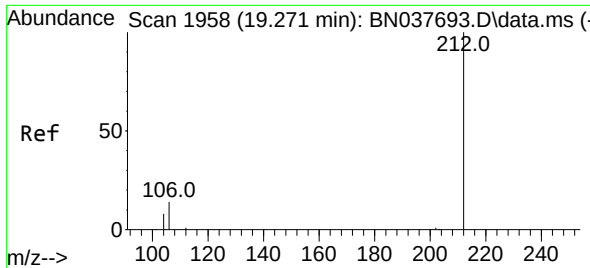
Tgt Ion:	178	Resp:	15736
Ion Ratio	Lower	Upper	
178	100		
176	19.6	15.3	22.9
179	15.5	12.2	18.2



#26
Anthracene
Concen: 0.355 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:	178	Resp:	13062
Ion Ratio	Lower	Upper	
178	100		
176	18.9	14.6	22.0
179	15.2	12.2	18.4

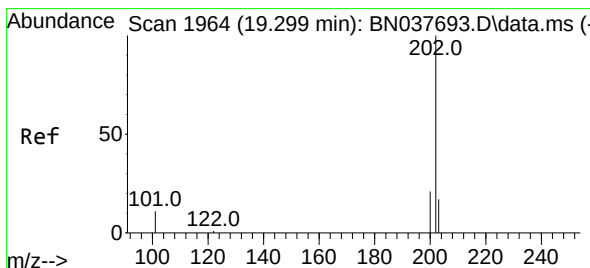
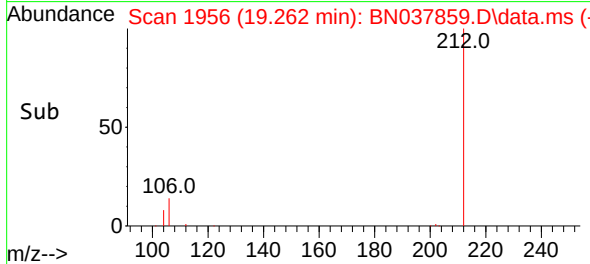
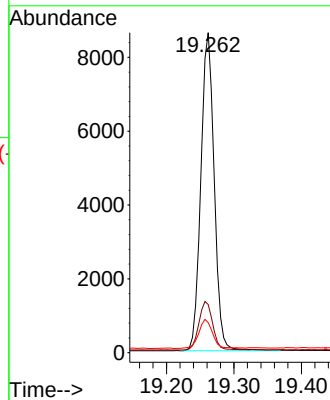
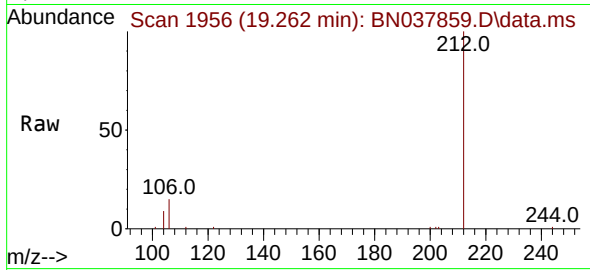




#27
Fluoranthene-d10
Concen: 0.358 ng
RT: 19.262 min Scan# 1958
Delta R.T. -0.010 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

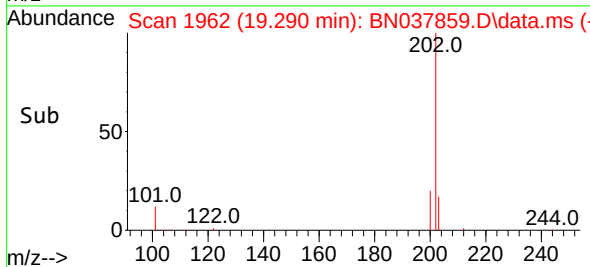
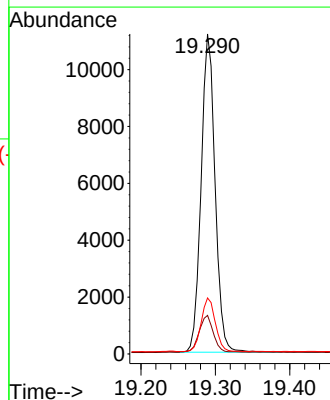
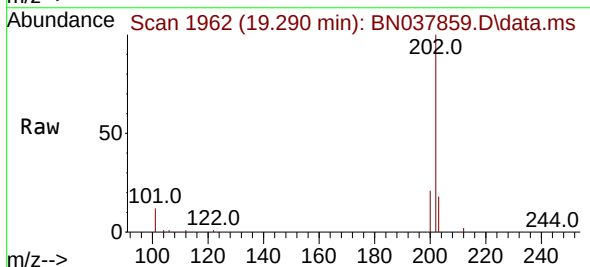
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

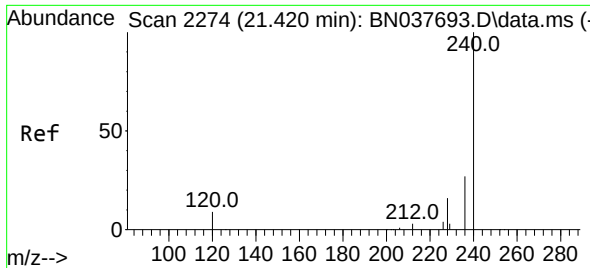
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.7	12.2	18.2
104	9.4	6.9	10.3



#28
Fluoranthene
Concen: 0.320 ng
RT: 19.290 min Scan# 1962
Delta R.T. -0.010 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.1	9.3	13.9
203	17.1	13.7	20.5

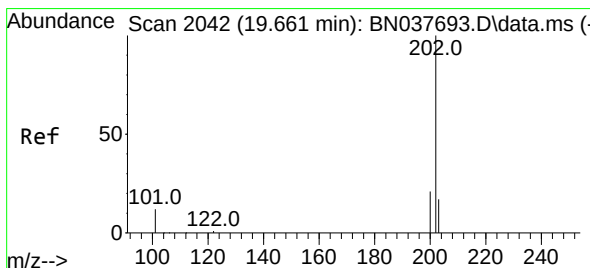
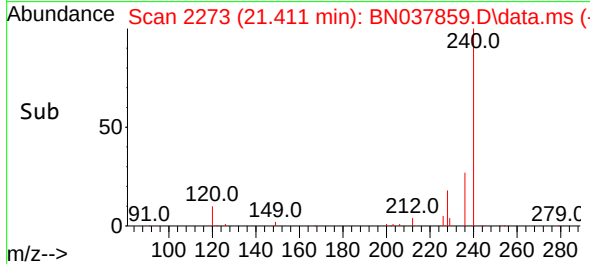
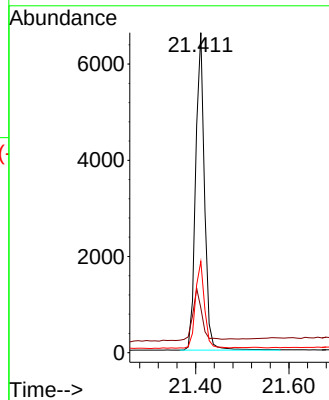
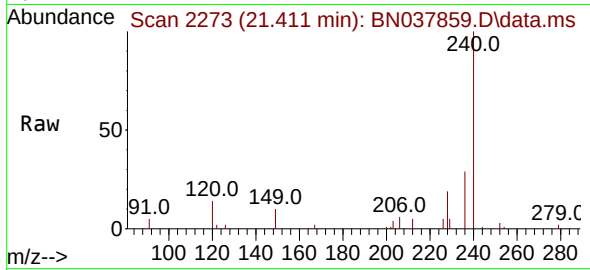




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

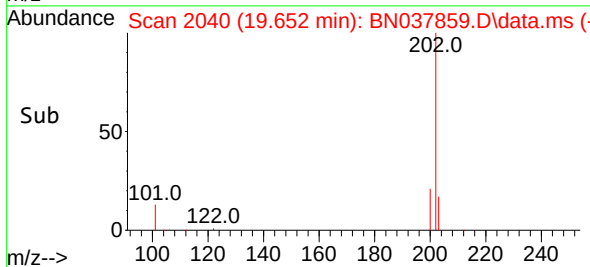
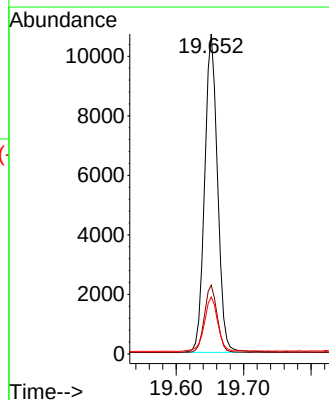
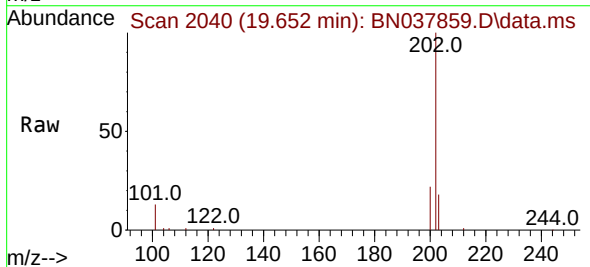
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

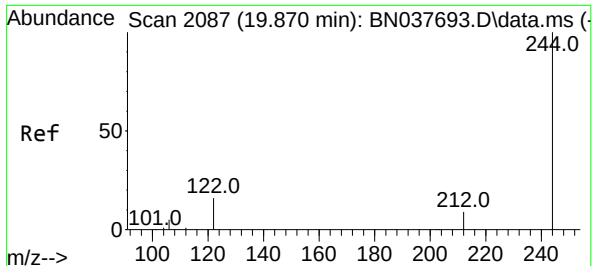
Tgt Ion:240 Resp: 8747
Ion Ratio Lower Upper
240 100
120 13.9 9.2 13.8#
236 28.5 22.6 33.8



#30
Pyrene
Concen: 0.414 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.010 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

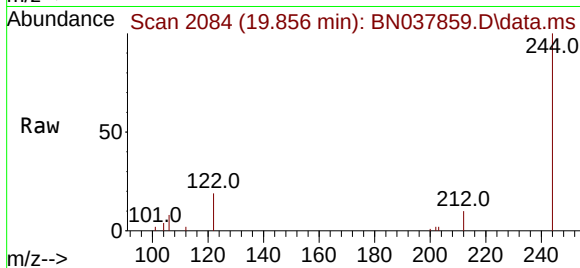
Tgt Ion:202 Resp: 14184
Ion Ratio Lower Upper
202 100
200 21.1 16.8 25.2
203 17.7 14.3 21.5



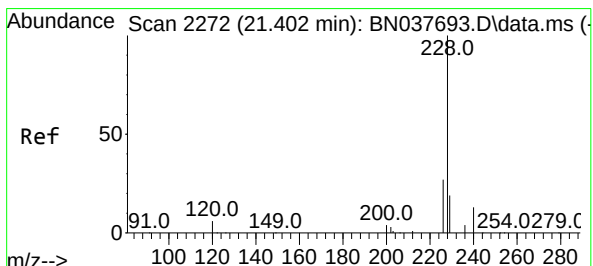
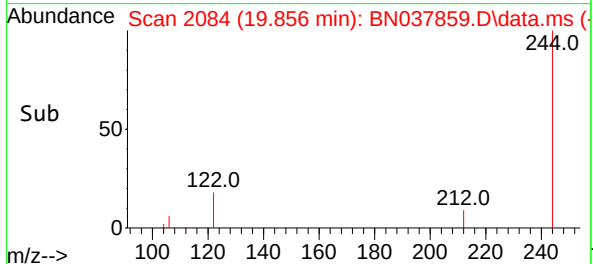
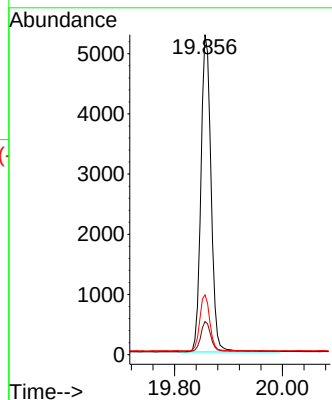


#31
Terphenyl-d14
Concen: 0.386 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

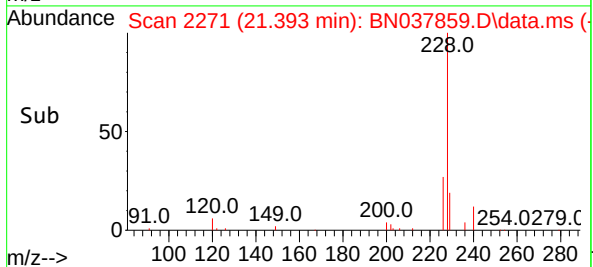
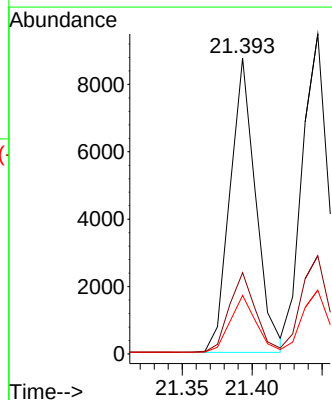
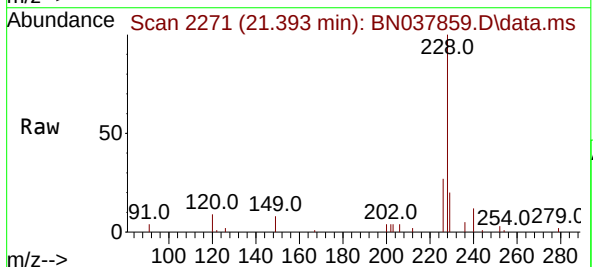


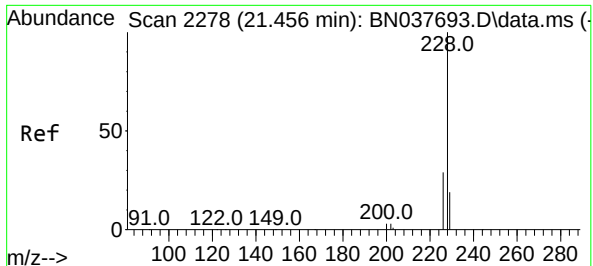
Tgt Ion:244 Resp: 6860
Ion Ratio Lower Upper
244 100
212 10.3 7.5 11.3
122 18.7 13.2 19.8



#32
Benzo(a)anthracene
Concen: 0.366 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:228 Resp: 11168
Ion Ratio Lower Upper
228 100
226 27.5 22.2 33.2
229 19.8 15.8 23.6

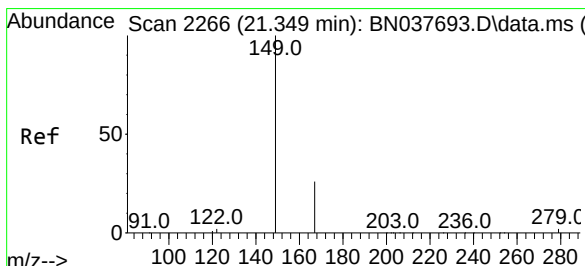
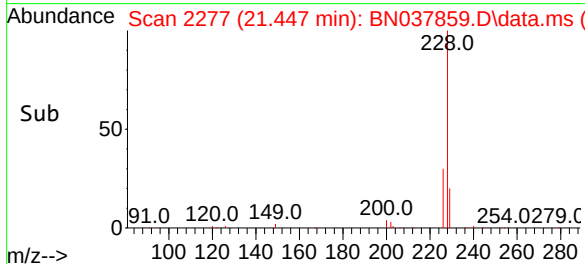
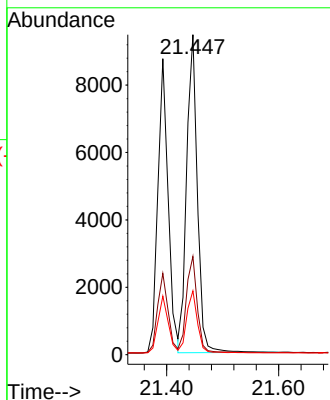
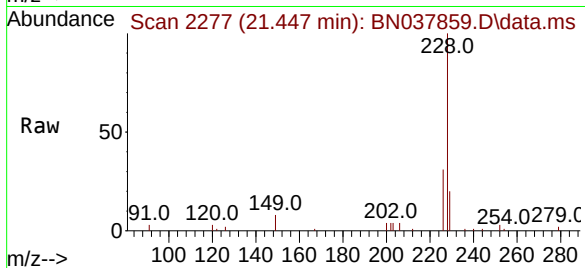




#33
Chrysene
Concen: 0.385 ng
RT: 21.447 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

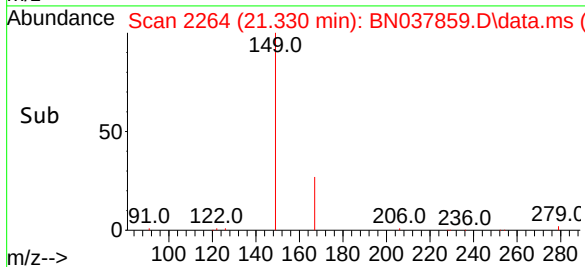
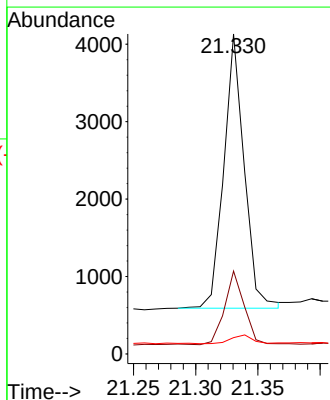
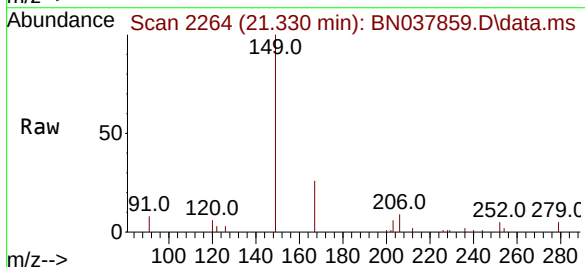
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

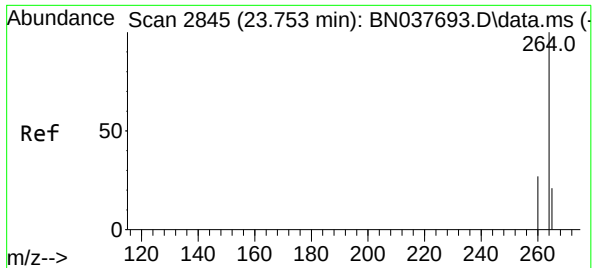
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	23.5	35.3
229	20.0	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.446 ng
RT: 21.330 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.5	20.8	31.2
279	3.6	3.3	4.9

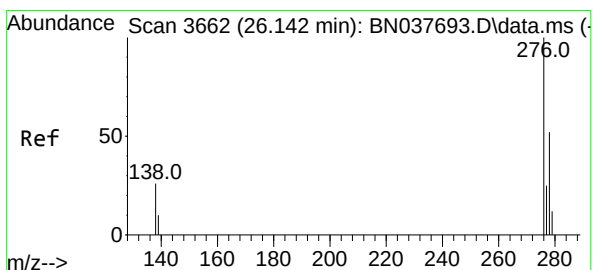
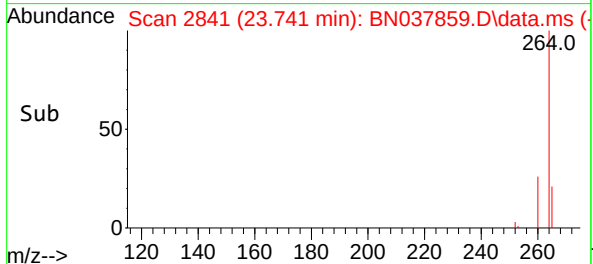
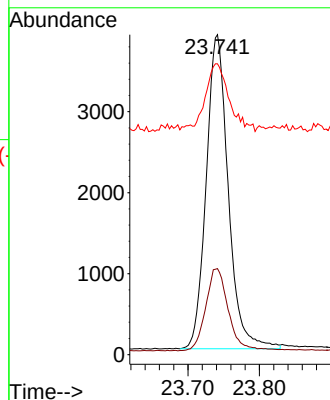
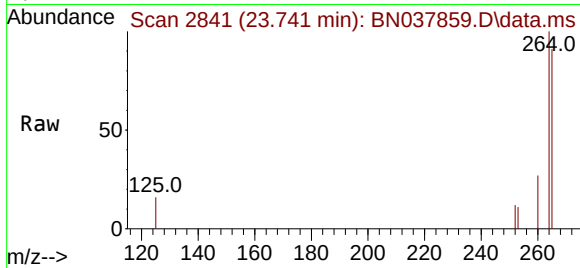




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.741 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BN037859.D
 Acq: 22 Sep 2025 16:39

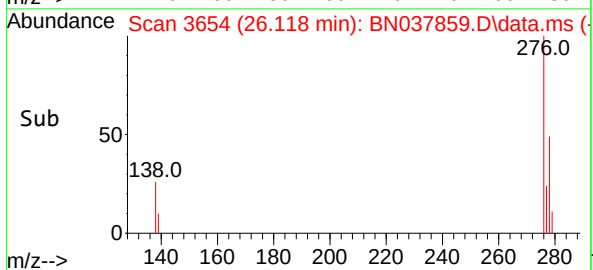
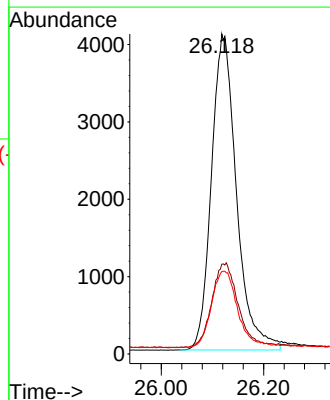
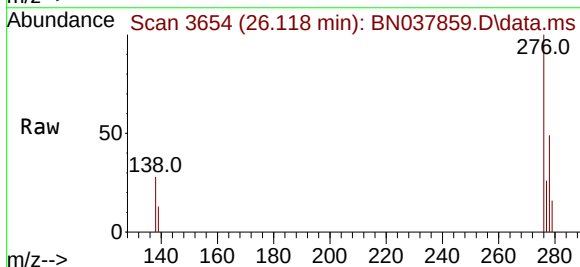
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

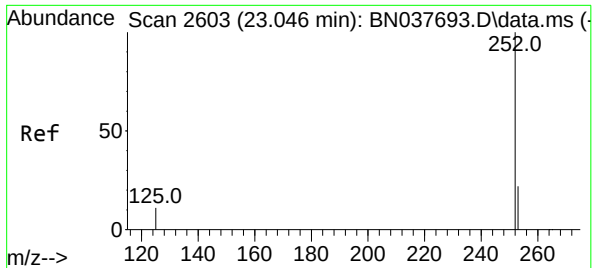
Tgt Ion:264 Resp: 8334
 Ion Ratio Lower Upper
 264 100
 260 26.9 21.8 32.8
 265 90.9 39.4 59.2#



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.397 ng
 RT: 26.118 min Scan# 3654
 Delta R.T. -0.024 min
 Lab File: BN037859.D
 Acq: 22 Sep 2025 16:39

Tgt Ion:276 Resp: 13892
 Ion Ratio Lower Upper
 276 100
 138 27.9 21.9 32.9
 277 25.2 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.403 ng

RT: 23.037 min Scan# 2600

Delta R.T. -0.009 min

Lab File: BN037859.D

Acq: 22 Sep 2025 16:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

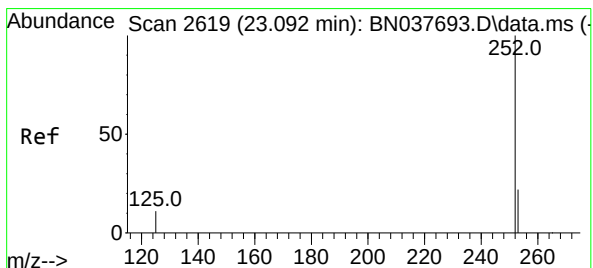
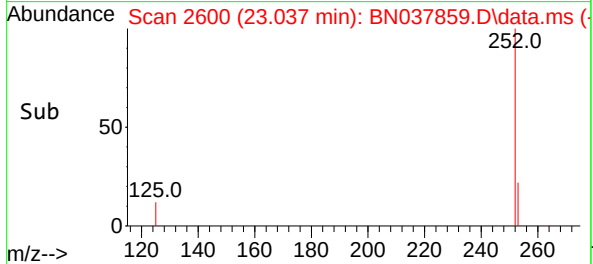
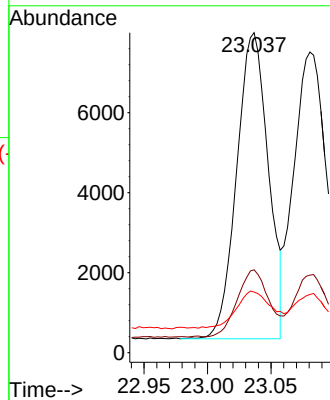
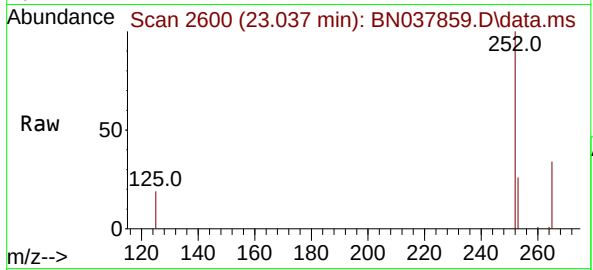
Tgt Ion:252 Resp: 13229

Ion Ratio Lower Upper

252 100

253 25.9 19.4 29.2

125 18.9 11.2 16.8#



#38

Benzo(k)fluoranthene

Concen: 0.401 ng

RT: 23.081 min Scan# 2615

Delta R.T. -0.012 min

Lab File: BN037859.D

Acq: 22 Sep 2025 16:39

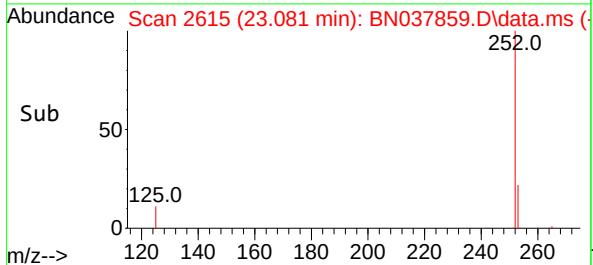
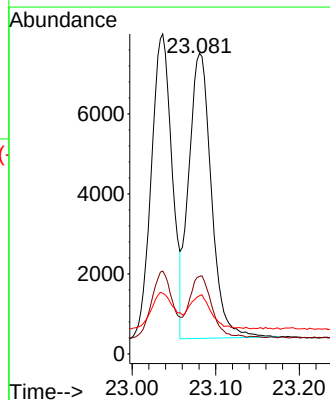
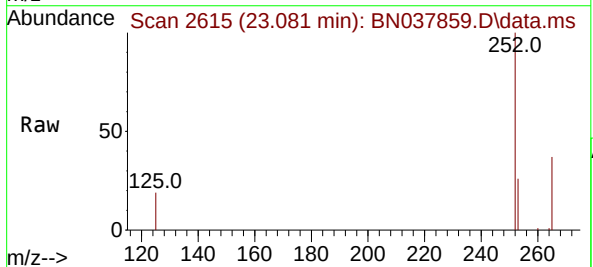
Tgt Ion:252 Resp: 13409

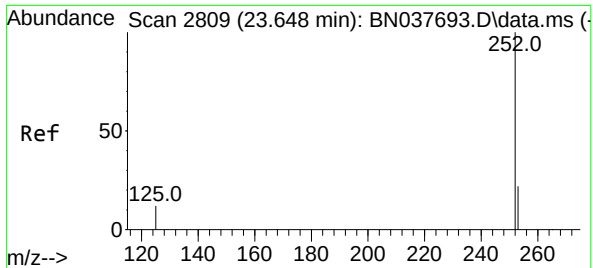
Ion Ratio Lower Upper

252 100

253 25.8 19.4 29.0

125 19.3 11.6 17.4#





#39

Benzo(a)pyrene

Concen: 0.383 ng

RT: 23.639 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037859.D

Acq: 22 Sep 2025 16:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

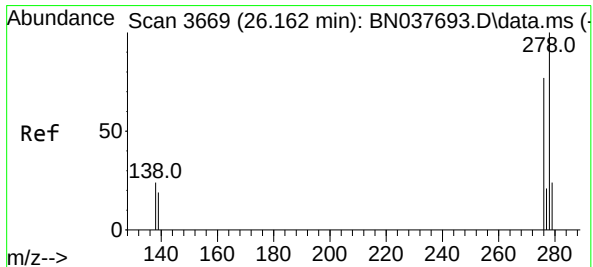
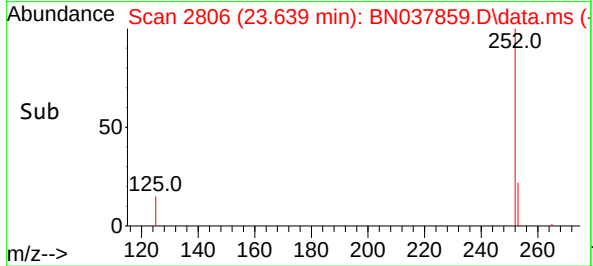
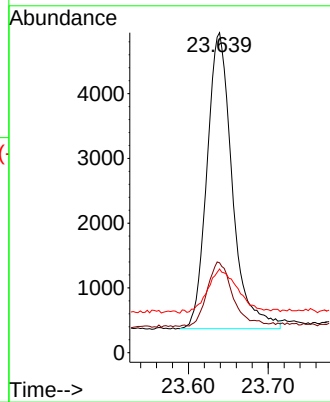
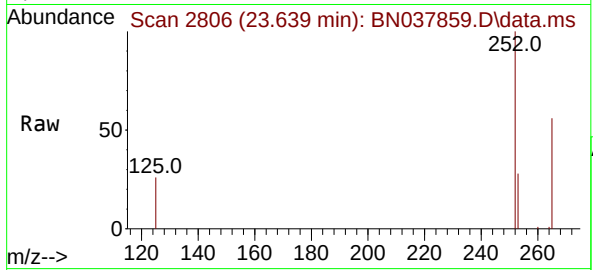
Tgt Ion:252 Resp: 10067

Ion Ratio Lower Upper

252 100

253 28.1 20.8 31.2

125 26.1 13.9 20.9#



#40

Dibenzo(a,h)anthracene

Concen: 0.376 ng

RT: 26.139 min Scan# 3661

Delta R.T. -0.024 min

Lab File: BN037859.D

Acq: 22 Sep 2025 16:39

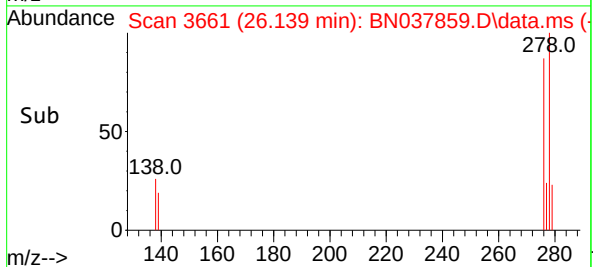
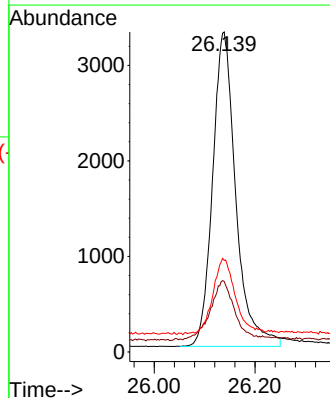
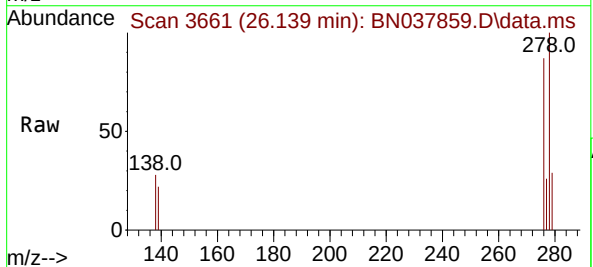
Tgt Ion:278 Resp: 10511

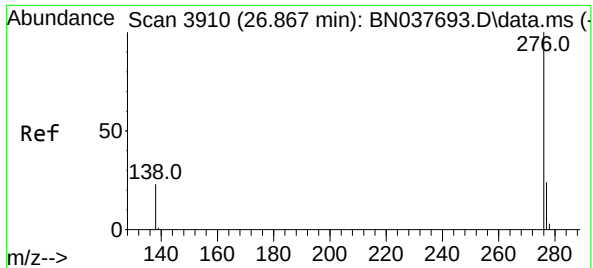
Ion Ratio Lower Upper

278 100

139 22.1 17.8 26.6

279 28.6 22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 0.394 ng

RT: 26.846 min Scan# 3903

Delta R.T. -0.021 min

Lab File: BN037859.D

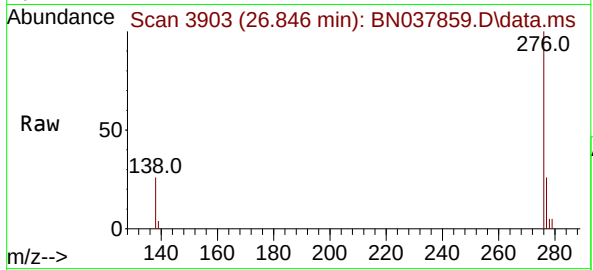
Acq: 22 Sep 2025 16:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



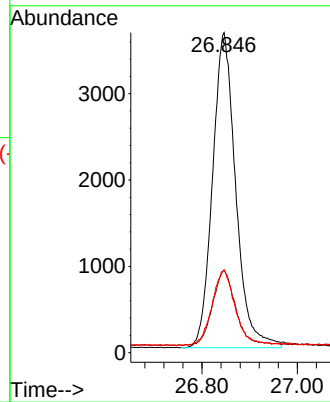
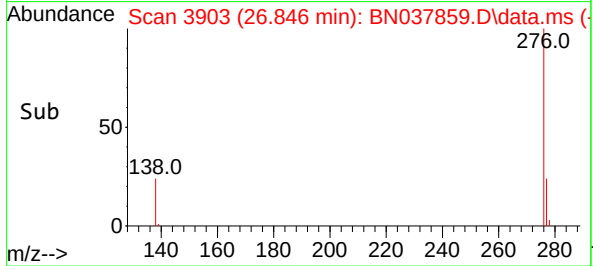
Tgt Ion:276 Resp: 12358

Ion Ratio Lower Upper

276 100

277 25.9 20.6 31.0

138 25.8 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
 Data File : BN037859.D
 Acq On : 22 Sep 2025 16:39
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 22 17:47:54 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 14:20:01 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	122	0.00
2	1,4-Dioxane	0.417	0.395	5.3	114	0.00
3	n-Nitrosodimethylamine	0.544	0.537	1.3	116	0.00
4 S	2-Fluorophenol	0.918	0.869	5.3	119	0.00
5 S	Phenol-d6	1.191	1.146	3.8	121	0.00
6	bis(2-Chloroethyl)ether	1.064	1.046	1.7	119	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	130	-0.01
8 S	Nitrobenzene-d5	0.293	0.293	0.0	134	-0.01
9	Naphthalene	1.093	1.044	4.5	126	0.00
10	Hexachlorobutadiene	0.198	0.180	9.1	119	-0.01
11 SURR	2-Methylnaphthalene-d10	0.530	0.557	-5.1	145	-0.01
12	2-Methylnaphthalene	0.676	0.639	5.5	126	-0.01
13 I	Acenaphthene-d10	1.000	1.000	0.0	131	-0.01
14 S	2,4,6-Tribromophenol	0.104	0.108	-3.8	141	-0.01
15 S	2-Fluorobiphenyl	1.673	1.607	3.9	128	-0.01
16	Acenaphthylene	1.834	1.658	9.6	122	0.00
17	Acenaphthene	1.240	1.173	5.4	127	-0.01
18	Fluorene	1.502	1.355	9.8	124	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	117	0.00
20	4,6-Dinitro-2-methylphenol	0.037	0.027	27.0#	94	-0.01
21	4-Bromophenyl-phenylether	0.261	0.248	5.0	116	-0.01
22	Hexachlorobenzene	0.300	0.329	-9.7	131	-0.01
23	Atrazine	0.166	0.154	7.2	119	-0.01
24	Pentachlorophenol	0.087	0.077	11.5	122	0.00
25	Phenanthrene	1.259	1.194	5.2	114	-0.01
26	Anthracene	1.116	0.991	11.2	108	-0.01
27 SURR	Fluoranthene-d10	1.004	0.898	10.6	112	0.00
28	Fluoranthene	1.381	1.106	19.9	99	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	93	0.00
30	Pyrene	1.566	1.622	-3.6	97	0.00
31 S	Terphenyl-d14	0.812	0.784	3.4	91	-0.01
32	Benzo(a)anthracene	1.395	1.277	8.5	88	0.00
33	Chrysene	1.496	1.440	3.7	90	0.00
34	Bis(2-ethylhexyl)phthalate	0.414	0.461	-11.4	114	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	93	-0.01
36	Indeno(1,2,3-cd)pyrene	1.681	1.667	0.8	100	-0.02
37	Benzo(b)fluoranthene	1.575	1.587	-0.8	95	0.00
38	Benzo(k)fluoranthene	1.606	1.609	-0.2	98	-0.01
39 C	Benzo(a)pyrene	1.261	1.208	4.2	94	0.00
40	Dibenzo(a,h)anthracene	1.342	1.261	6.0	97	-0.02
41	Benzo(g,h,i)perylene	1.506	1.483	1.5	95	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037859.D
Acq On : 22 Sep 2025 16:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 22 17:47:54 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 14:20:01 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	122	0.00
2	1,4-Dioxane	0.400	0.379	5.3	114	0.00
3	n-Nitrosodimethylamine	0.400	0.395	1.3	116	0.00
4 S	2-Fluorophenol	0.400	0.379	5.3	119	0.00
5 S	Phenol-d6	0.400	0.385	3.8	121	0.00
6	bis(2-Chloroethyl)ether	0.400	0.393	1.8	119	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	130	-0.01
8 S	Nitrobenzene-d5	0.400	0.401	-0.3	134	-0.01
9	Naphthalene	0.400	0.382	4.5	126	0.00
10	Hexachlorobutadiene	0.400	0.364	9.0	119	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.420	-5.0	145	-0.01
12	2-Methylnaphthalene	0.400	0.378	5.5	126	-0.01
13 I	Acenaphthene-d10	0.400	0.400	0.0	131	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.415	-3.7	141	-0.01
15 S	2-Fluorobiphenyl	0.400	0.384	4.0	128	-0.01
16	Acenaphthylene	0.400	0.362	9.5	122	0.00
17	Acenaphthene	0.400	0.378	5.5	127	-0.01
18	Fluorene	0.400	0.361	9.8	124	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	117	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.288	28.0#	94	-0.01
21	4-Bromophenyl-phenylether	0.400	0.380	5.0	116	-0.01
22	Hexachlorobenzene	0.400	0.438	-9.5	131	-0.01
23	Atrazine	0.400	0.372	7.0	119	-0.01
24	Pentachlorophenol	0.400	0.355	11.3	122	0.00
25	Phenanthrene	0.400	0.379	5.3	114	-0.01
26	Anthracene	0.400	0.355	11.3	108	-0.01
27 SURR	Fluoranthene-d10	0.400	0.358	10.5	112	0.00
28	Fluoranthene	0.400	0.320	20.0	99	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	93	0.00
30	Pyrene	0.400	0.414	-3.5	97	0.00
31 S	Terphenyl-d14	0.400	0.386	3.5	91	-0.01
32	Benzo(a)anthracene	0.400	0.366	8.5	88	0.00
33	Chrysene	0.400	0.385	3.8	90	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.446	-11.5	114	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	93	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.397	0.8	100	-0.02
37	Benzo(b)fluoranthene	0.400	0.403	-0.8	95	0.00
38	Benzo(k)fluoranthene	0.400	0.401	-0.3	98	-0.01
39 C	Benzo(a)pyrene	0.400	0.383	4.3	94	0.00
40	Dibenzo(a,h)anthracene	0.400	0.376	6.0	97	-0.02
41	Benzo(g,h,i)perylene	0.400	0.394	1.5	95	-0.02

(#) = Out of Range

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



QC SAMPLE DATA

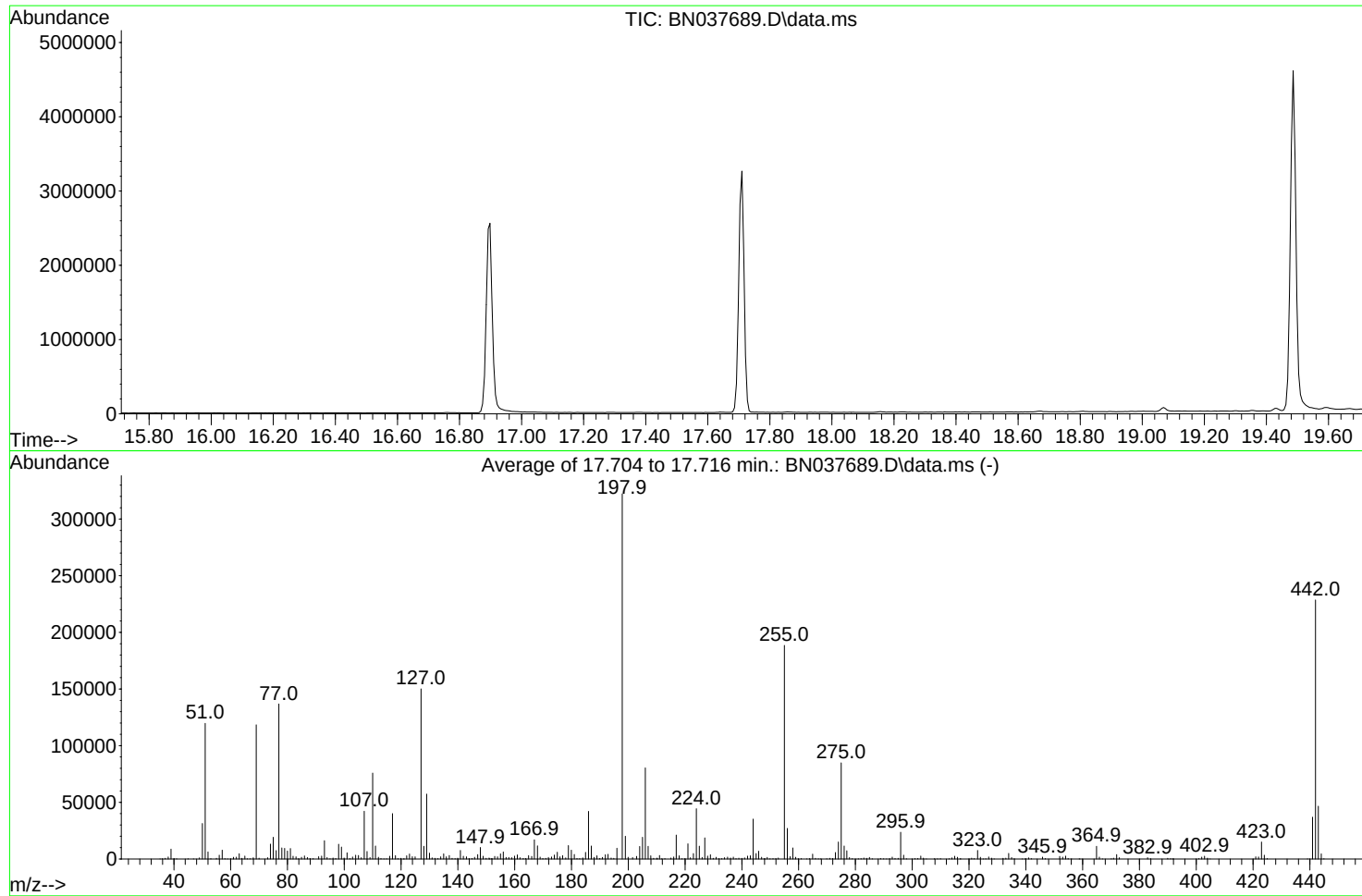
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\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



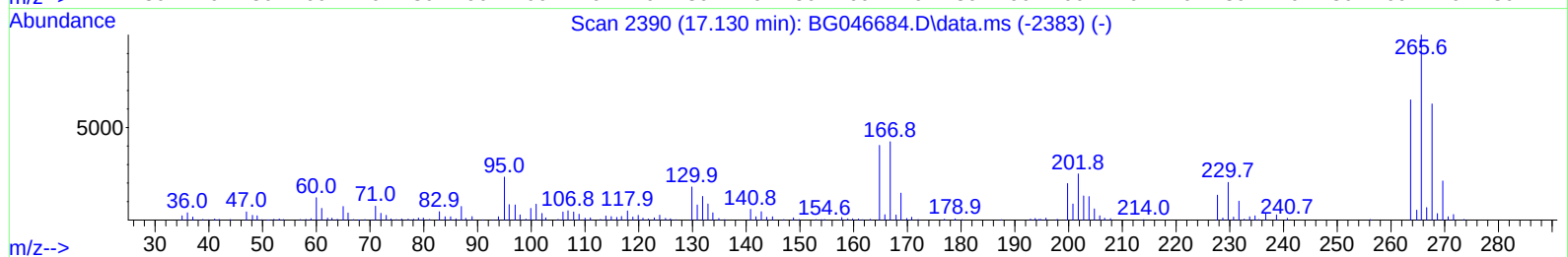
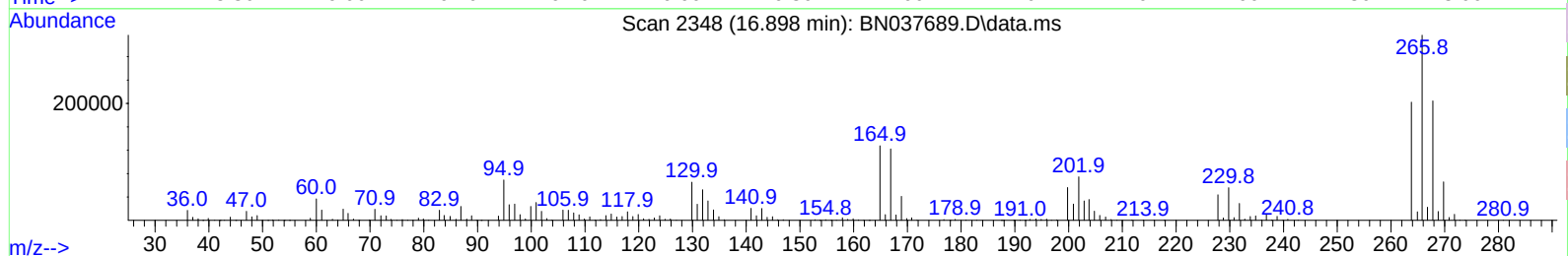
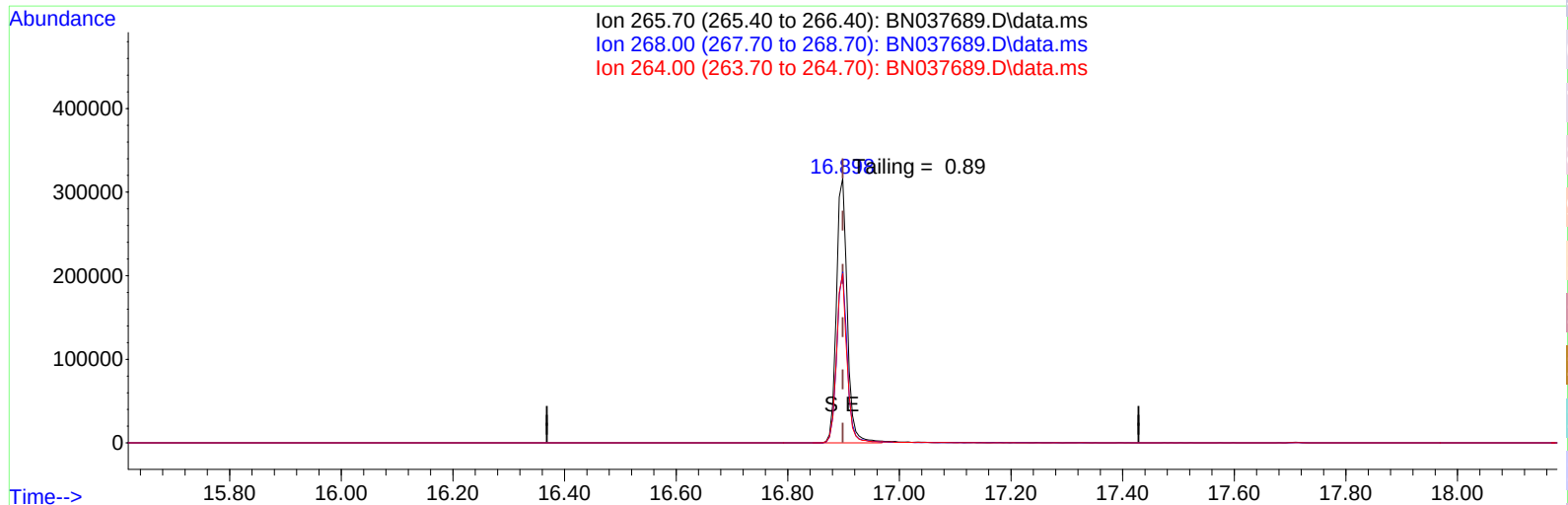
AutoFind: Scans 2485, 2486, 2487; Background Corrected with Scan 2478

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	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

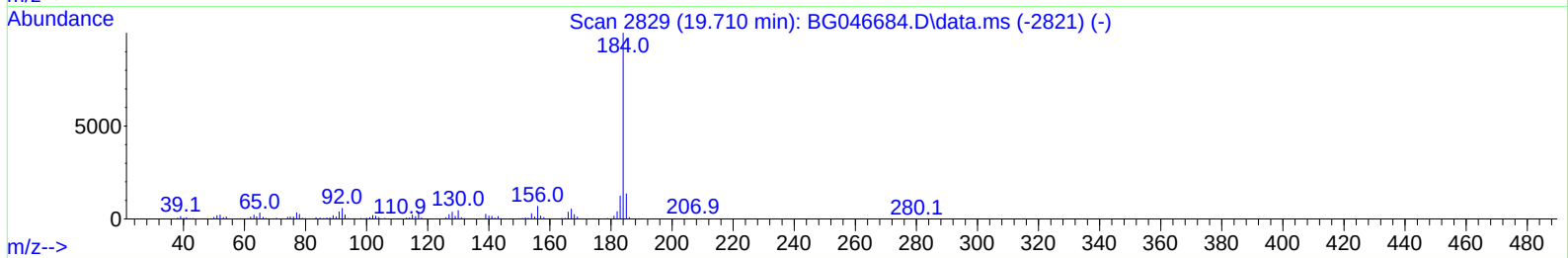
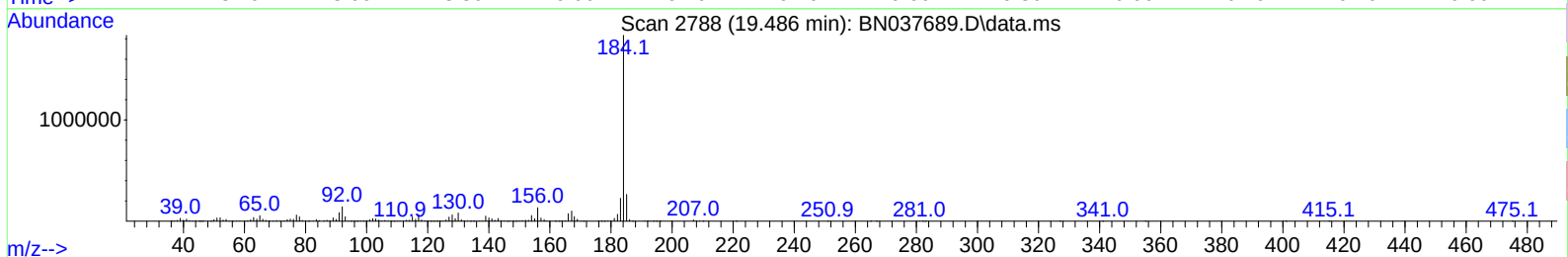
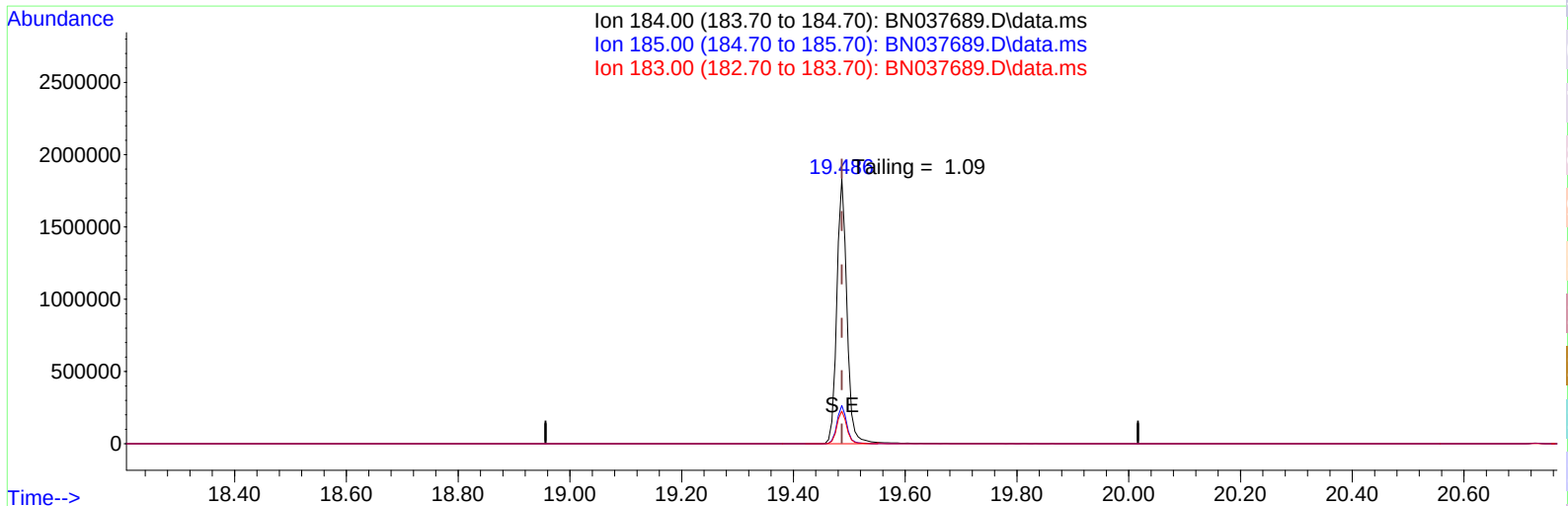
response 430126

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

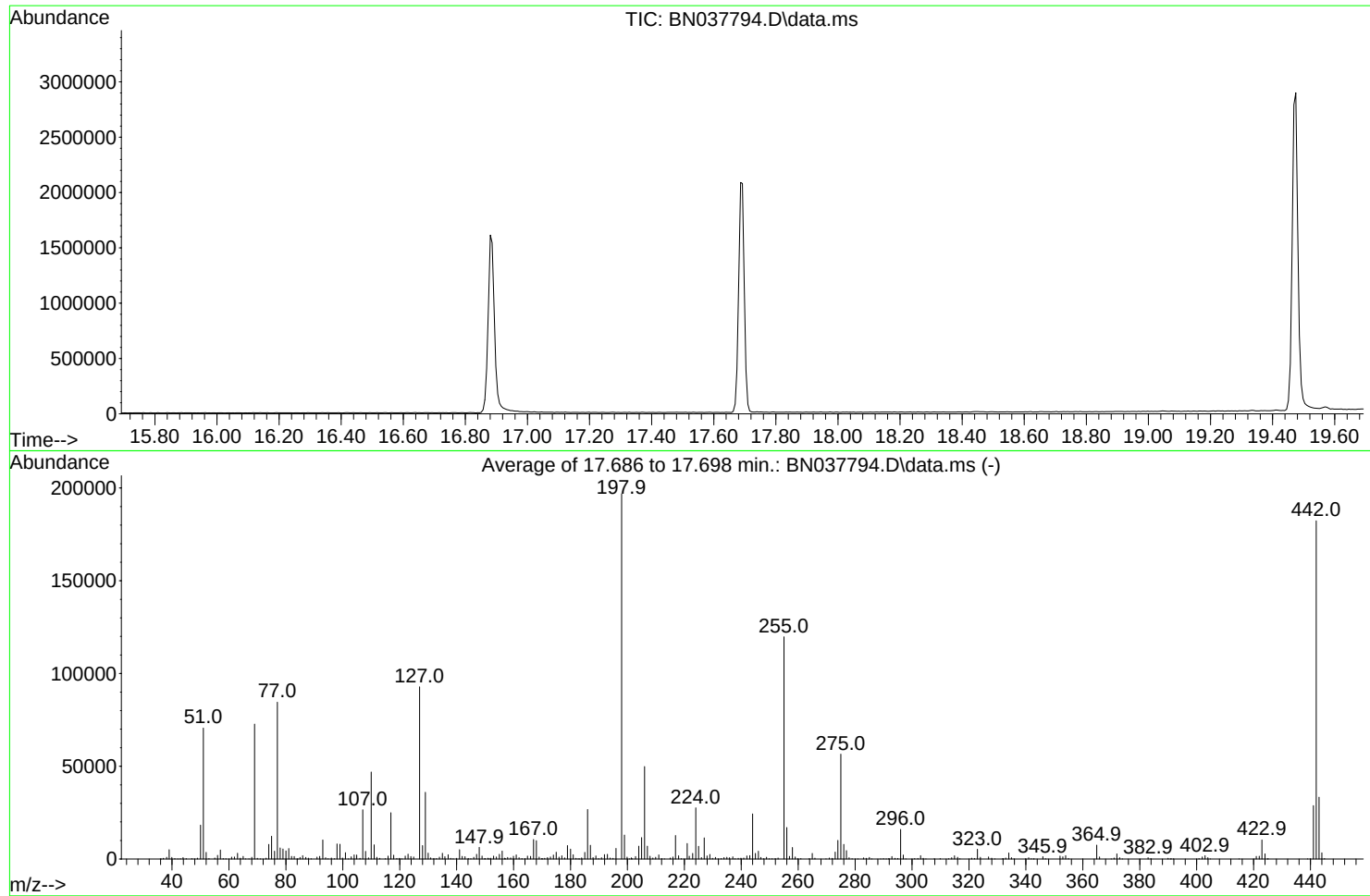
Date	Instrument Name	DFTPP Data File
9/11/2025	BNA_N	<u>BN037689.D</u>
Compound Name	Response	Retention Time
DDT	1069016	20.727
DDD	7982	20.286
DDE	769	19.78
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
8751	1077767	0.81

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\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



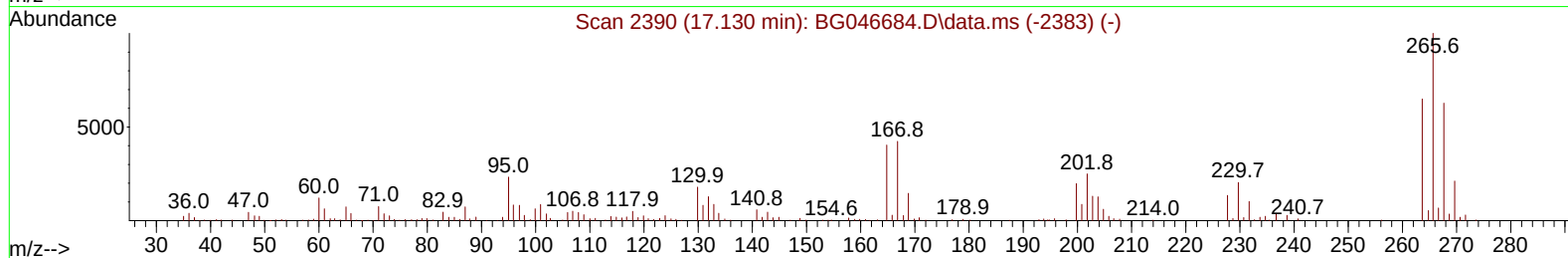
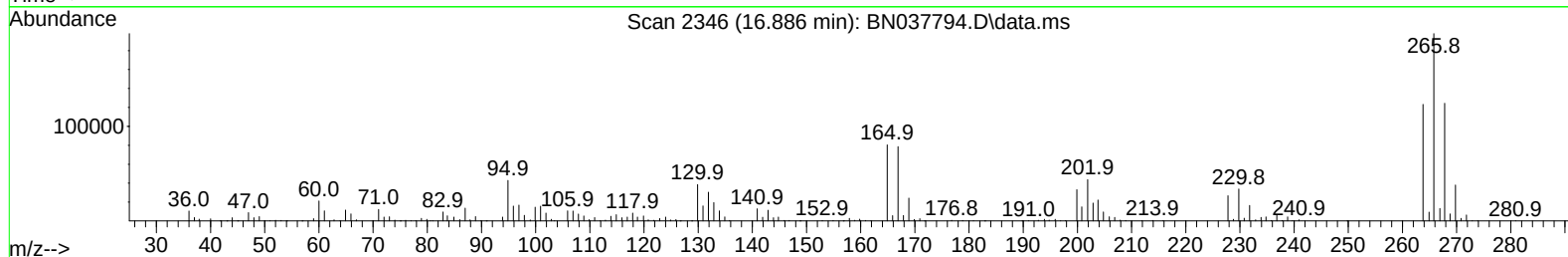
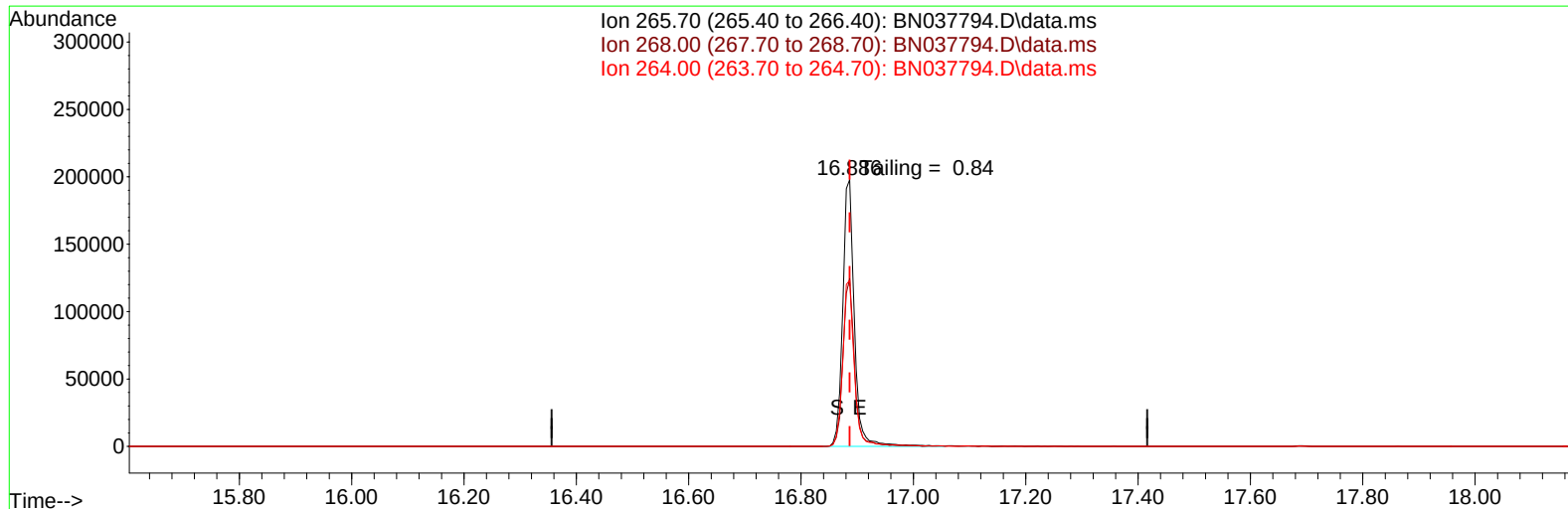
AutoFind: Scans 2482, 2483, 2484; Background Corrected with Scan 2475

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

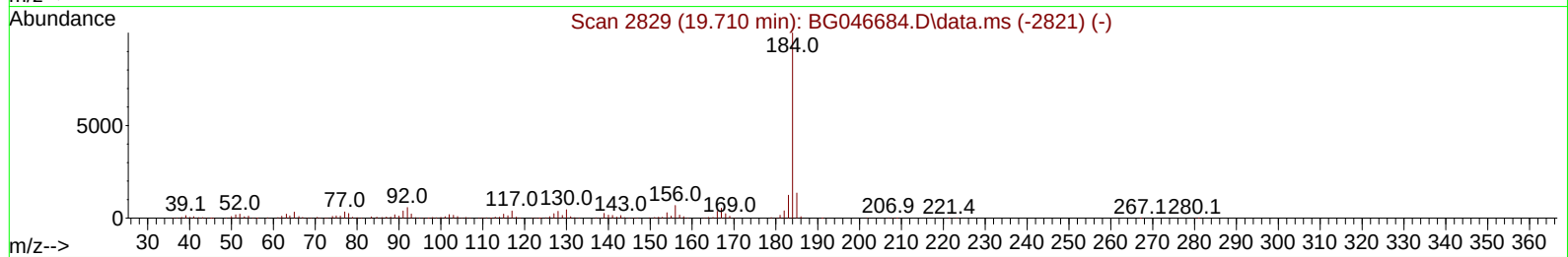
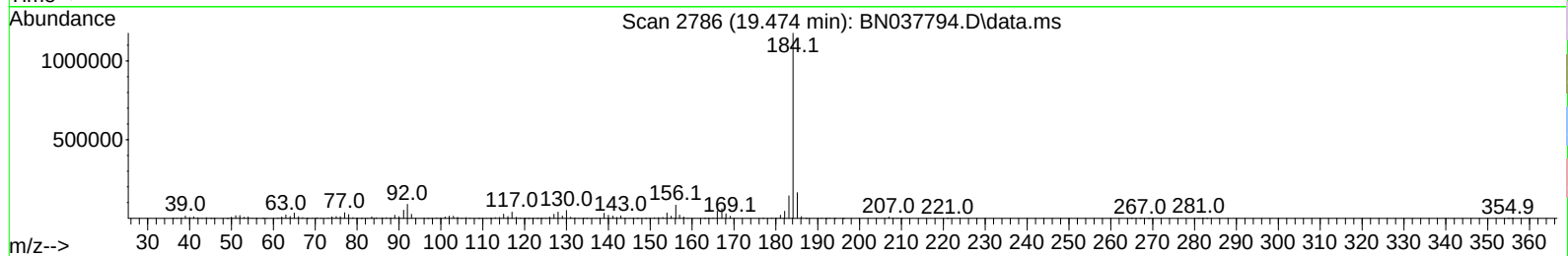
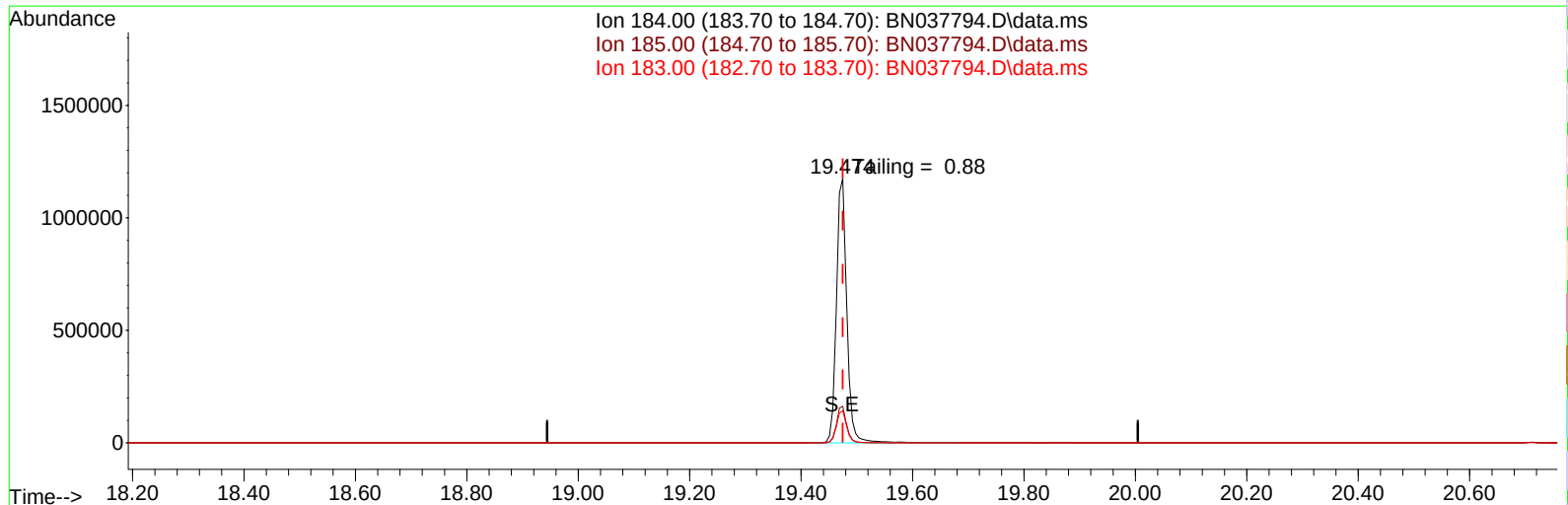
response 284548

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

DDT Breakdown

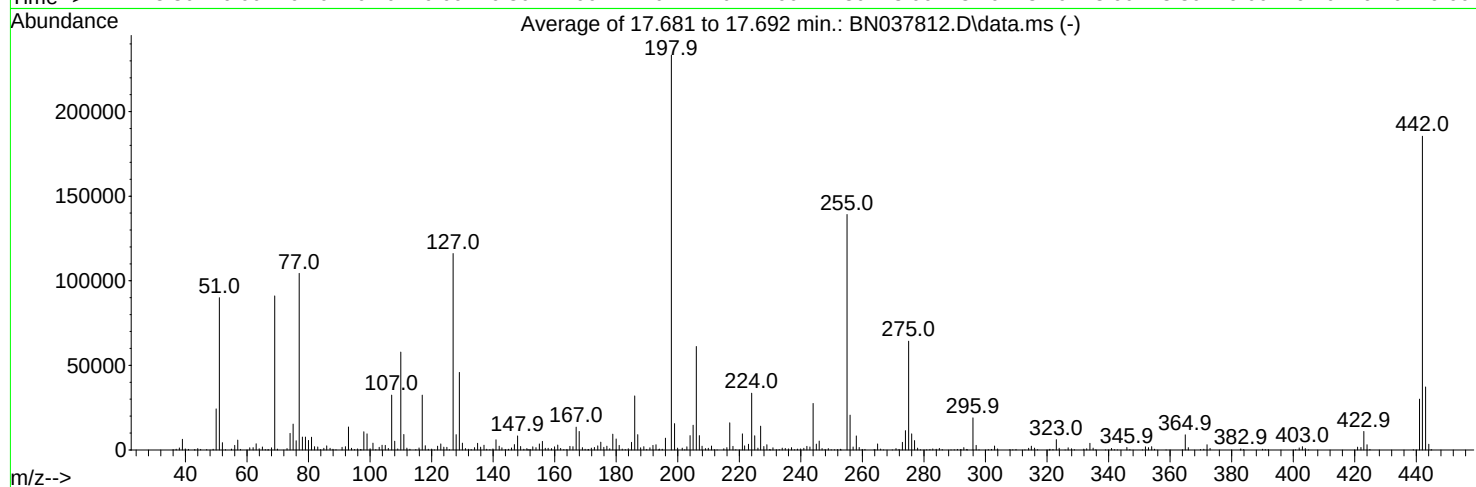
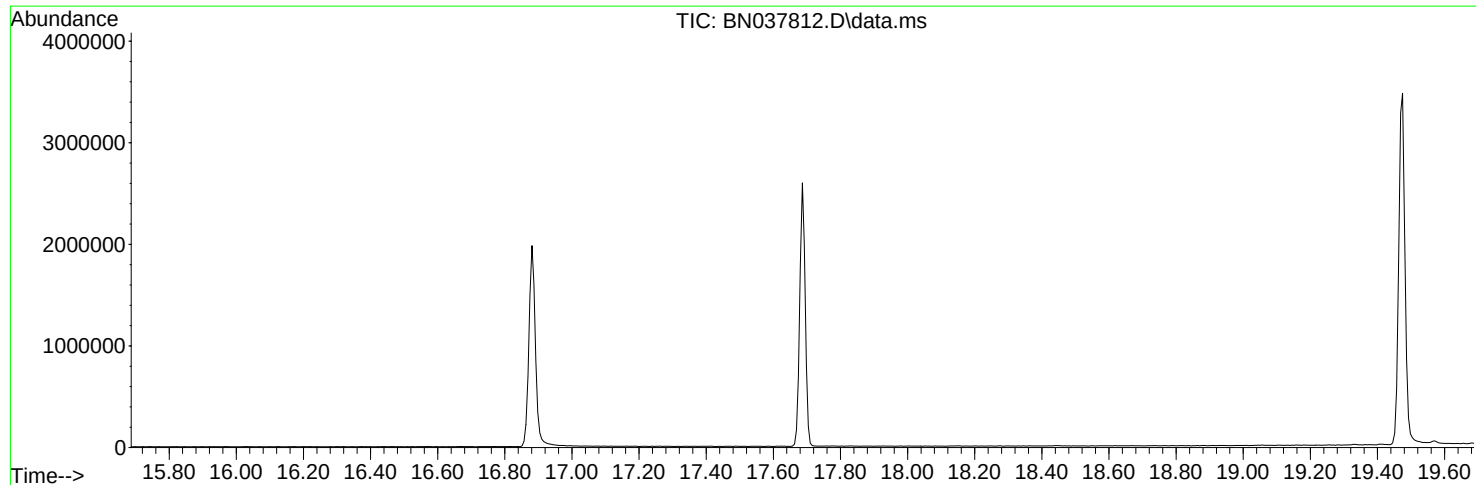
Date	Instrument Name	DFTPP Data File
9/18/2025	BNA_N	<u>BN037794.D</u>
Compound Name	Response	Retention Time
DDT	688292	20.71
DDD	26538	20.269
DDE	1670	19.769
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
28208	716500	3.94

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



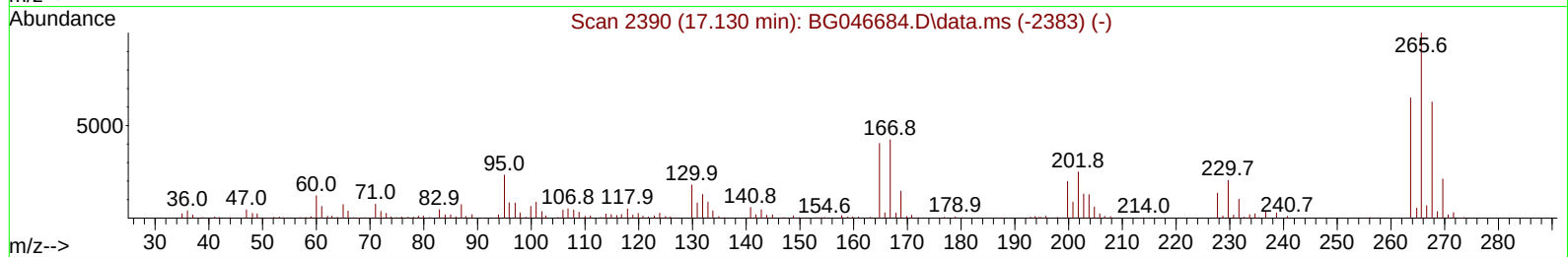
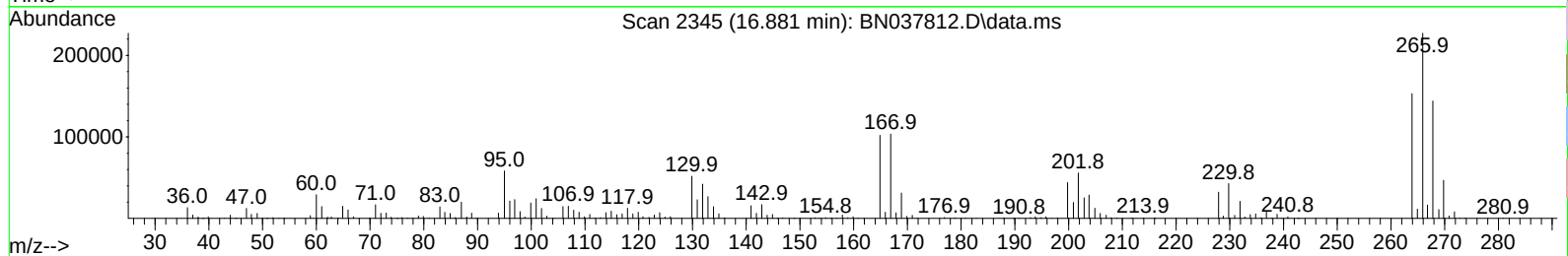
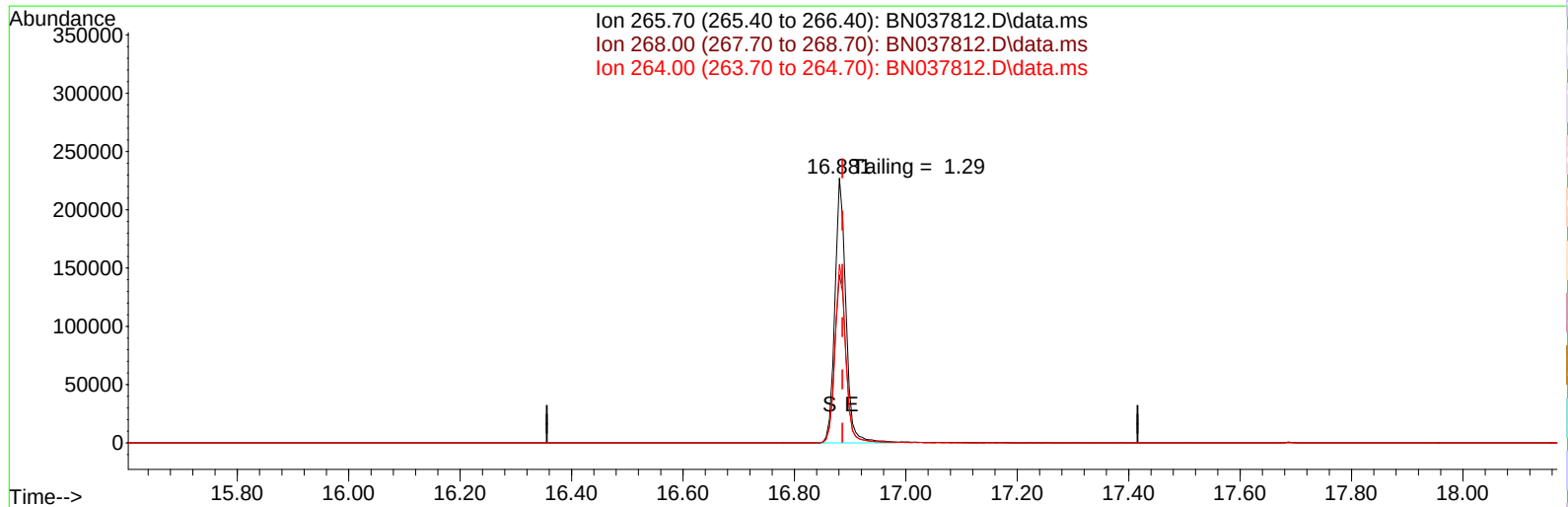
AutoFind: Scans 2481, 2482, 2483; Background Corrected with Scan 2474

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

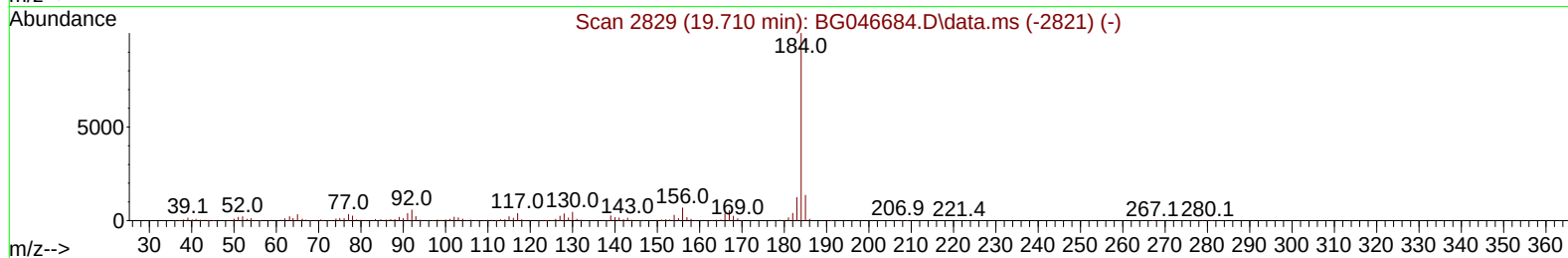
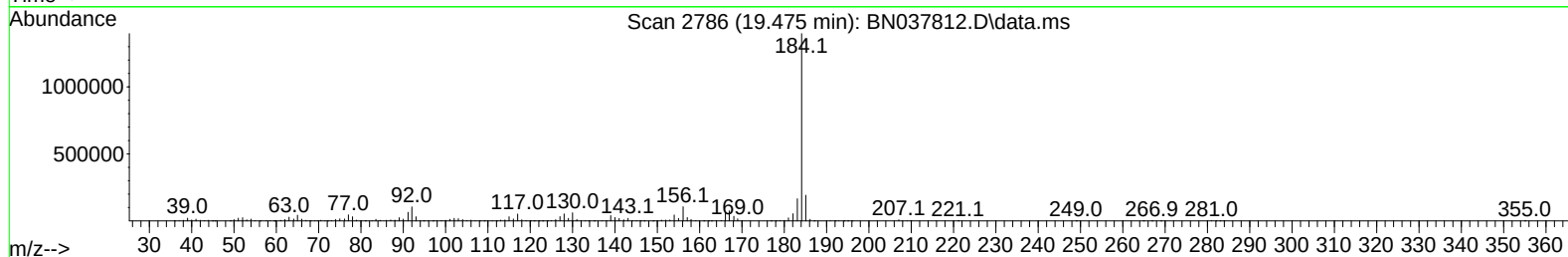
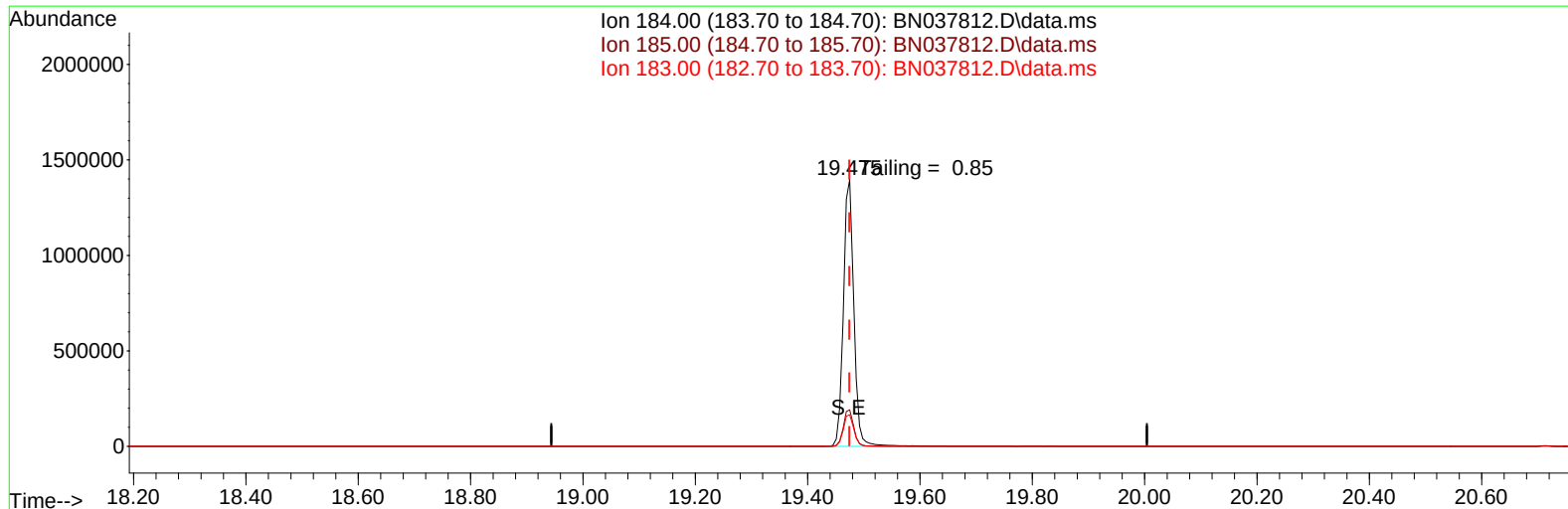
response 312055

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) Benizidine

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

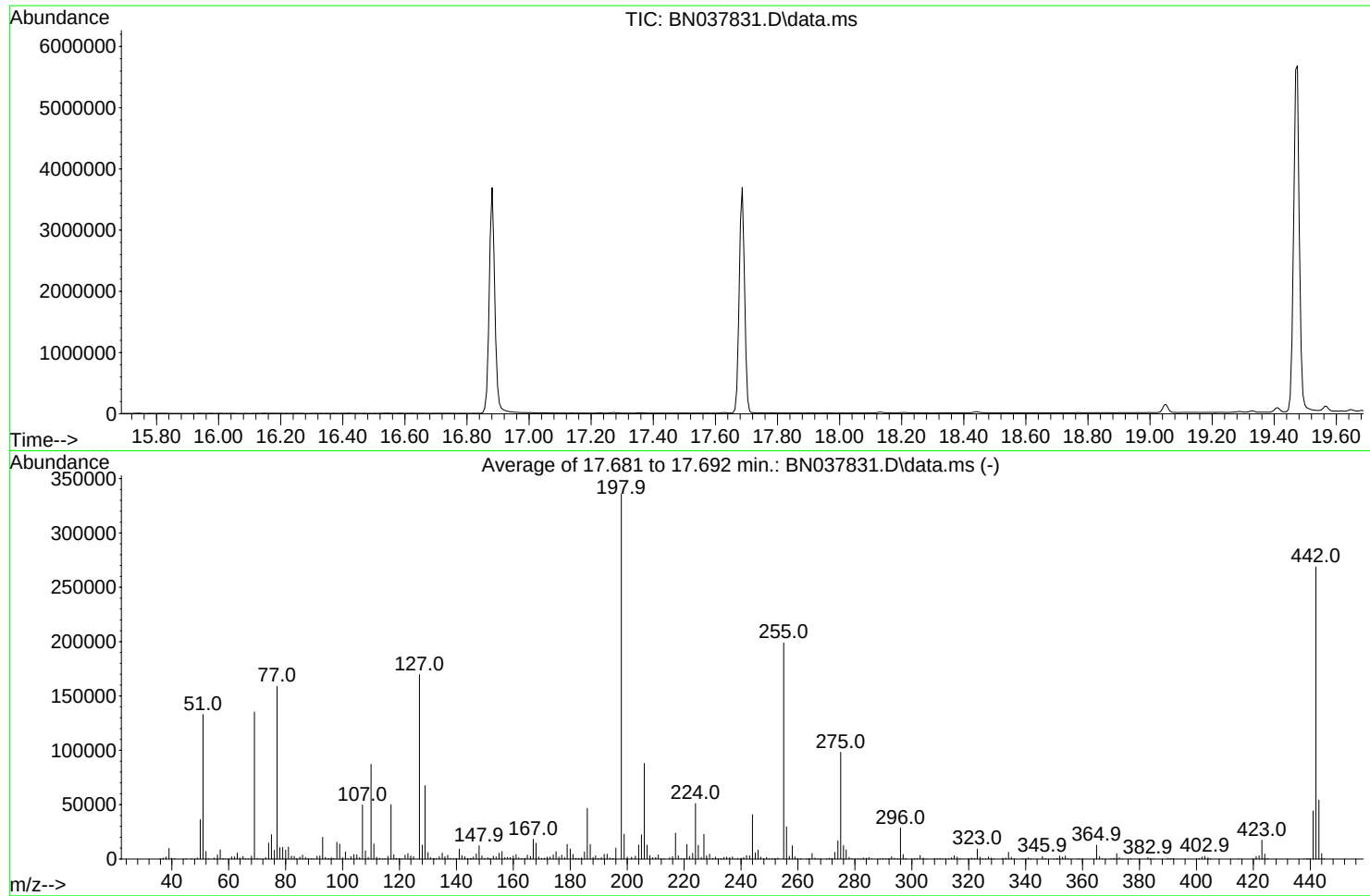
Date	Instrument Name	DFTPP Data File
9/19/2025	BNA_N	<u>BN037812.D</u>
Compound Name	Response	Retention Time
DDT	836771	20.716
DDD	28711	20.275
DDE	1832	19.769
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
30543	867314	3.52

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



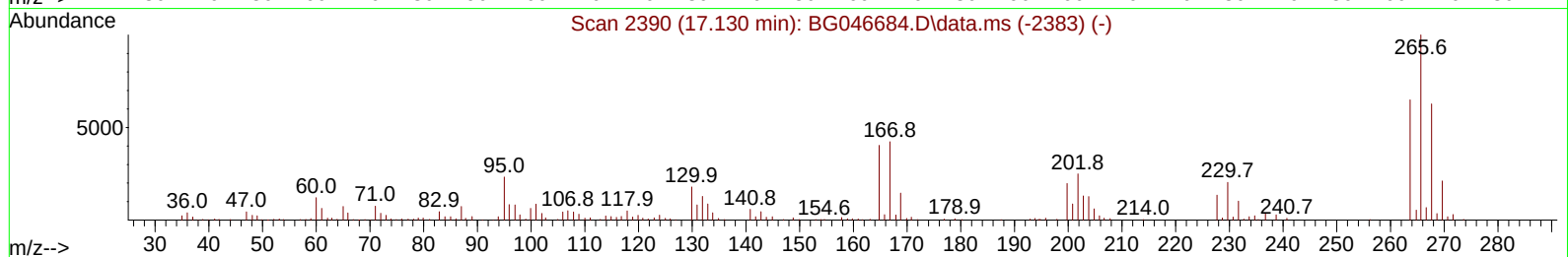
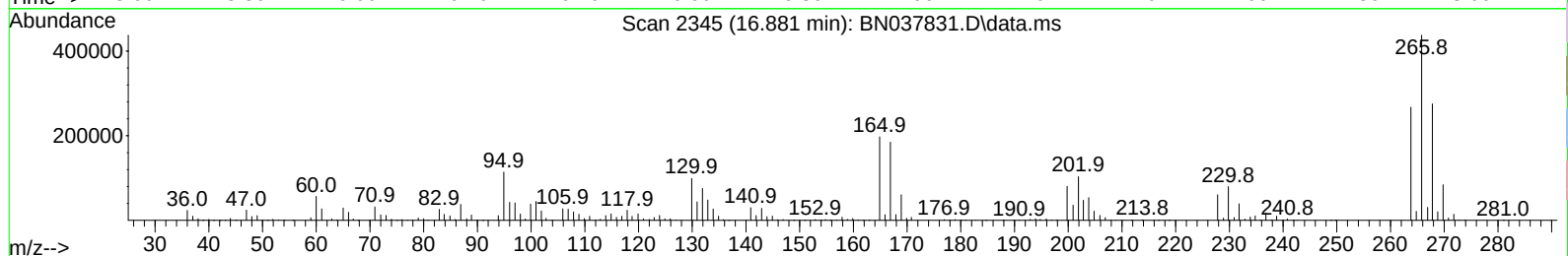
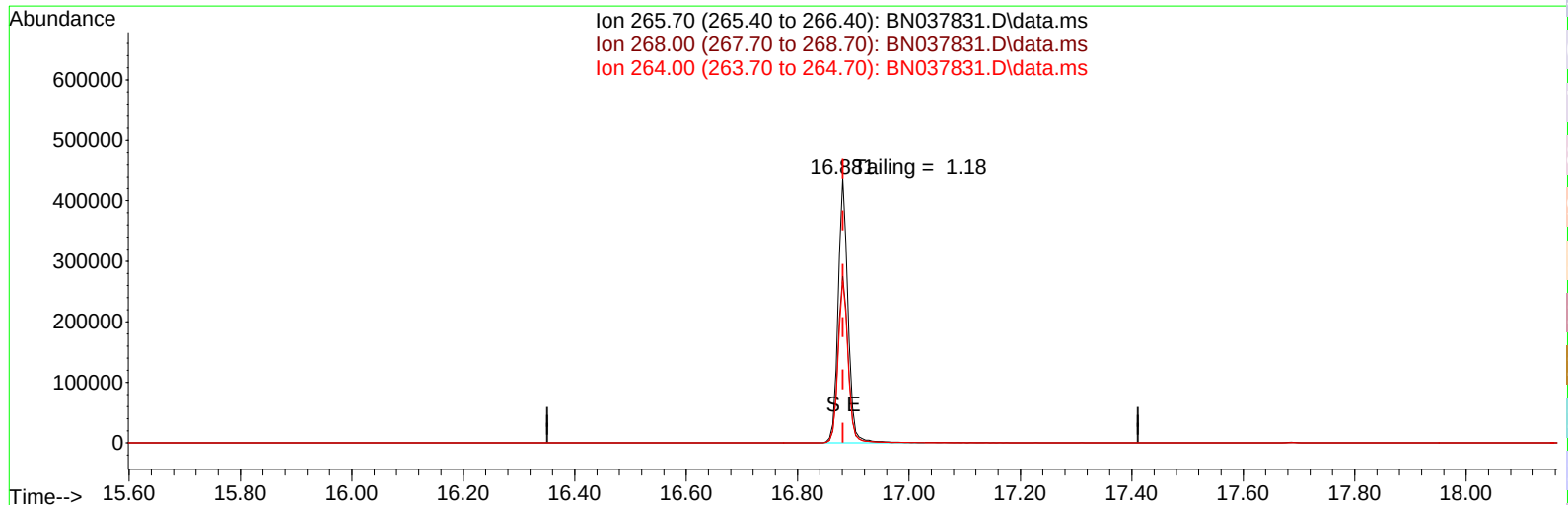
AutoFind: Scans 2481, 2482, 2483; Background Corrected with Scan 2474

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

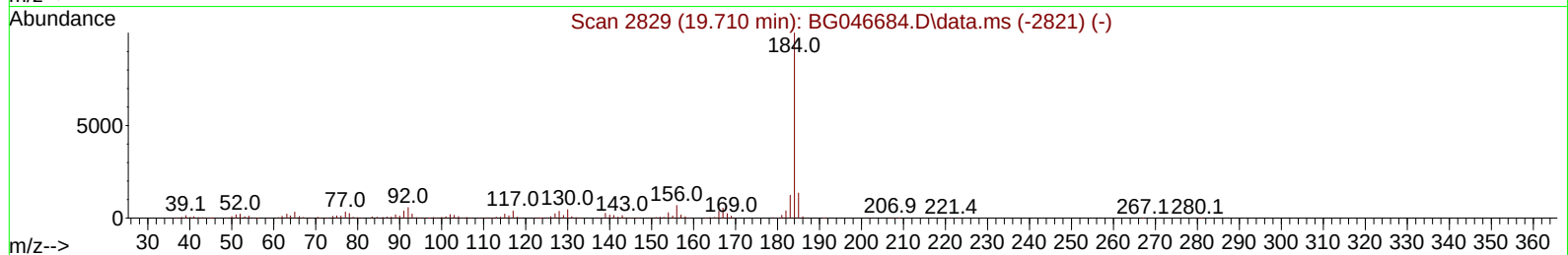
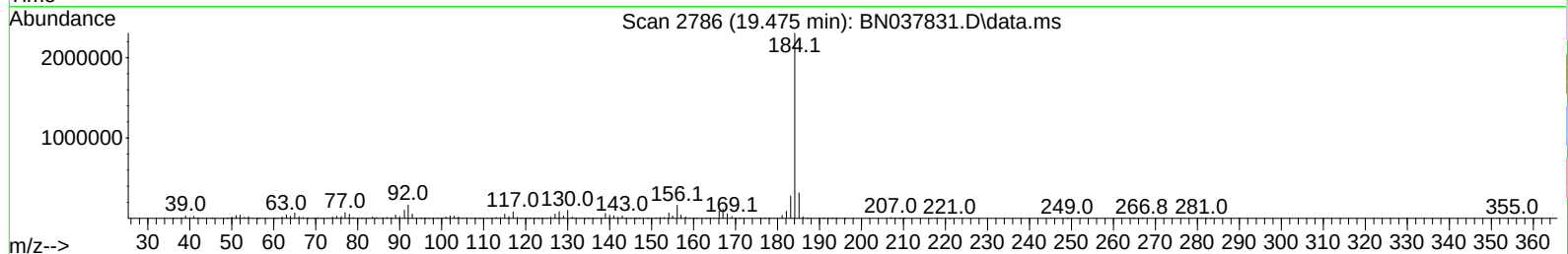
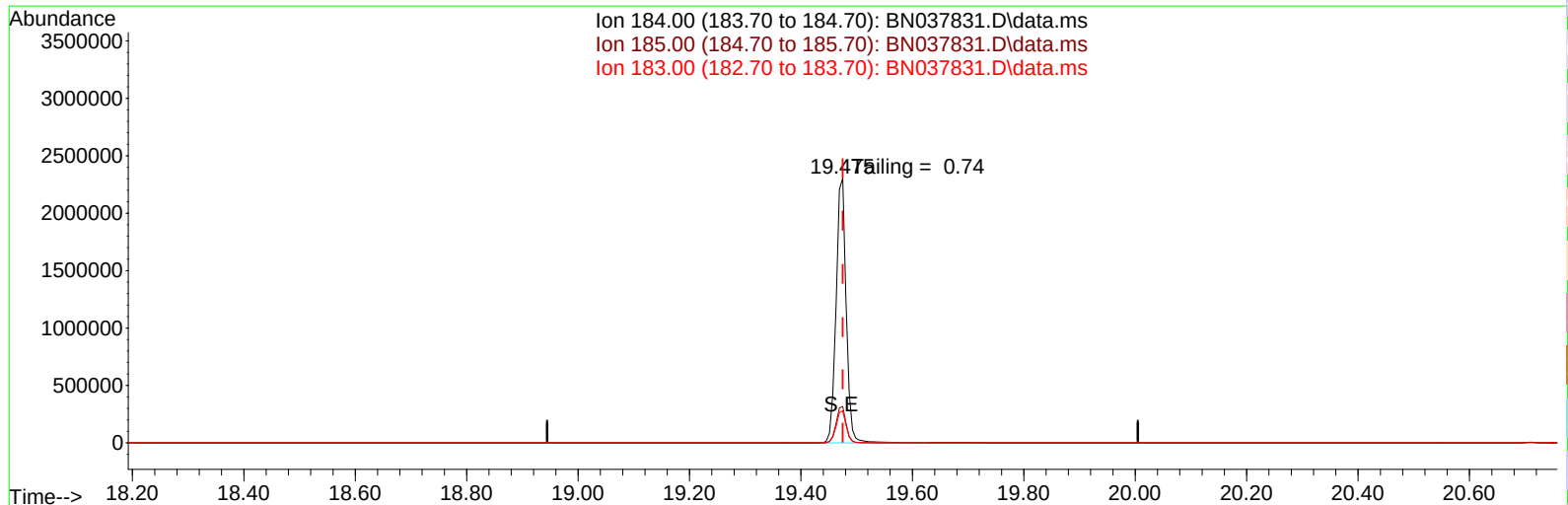
response 541064

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

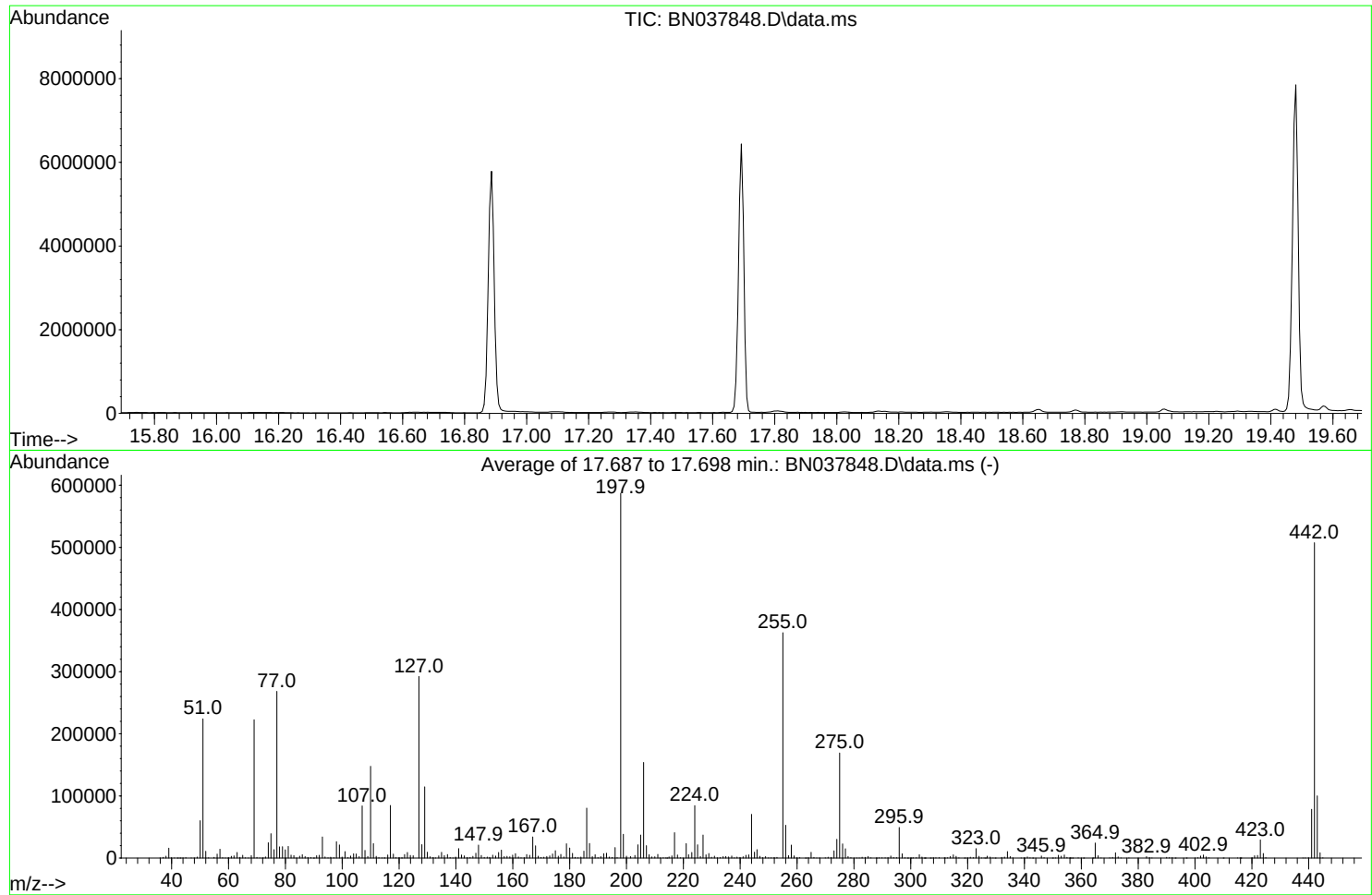
Date	Instrument Name	DFTPP Data File
9/19/2025	BNA_N	<u>BN037831.D</u>
Compound Name	Response	Retention Time
DDT	1283981	20.71
DDD	30254	20.269
DDE	1457	19.769
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
31711	1315692	2.41

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037848.D
Acq On : 22 Sep 2025 08:59
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



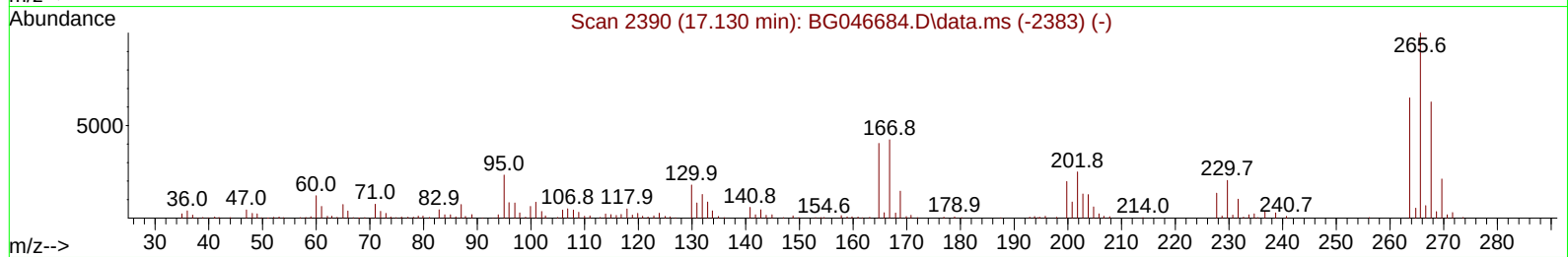
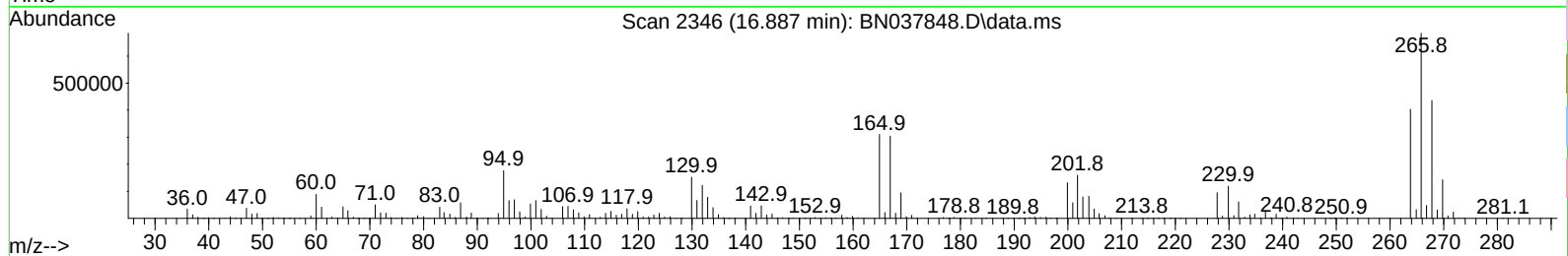
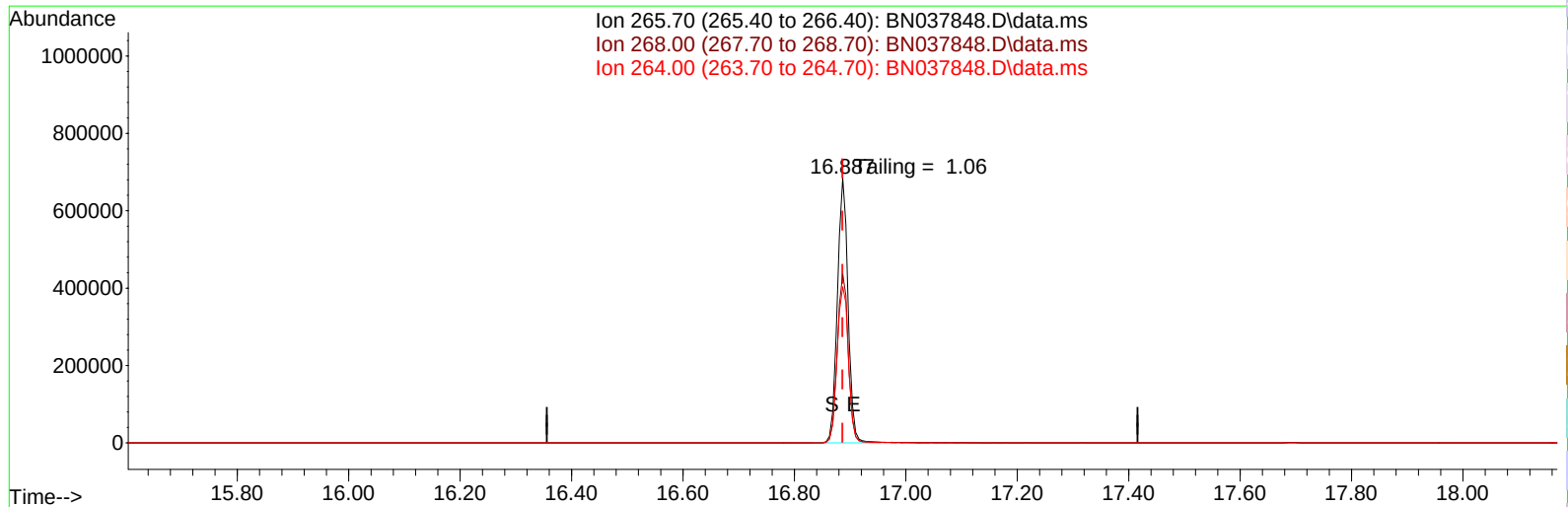
AutoFind: Scans 2482, 2483, 2484; Background Corrected with Scan 2475

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.8	3978	PASS
69	69	100	100	100.0	222750	PASS
70	69	0.00	2	0.5	1151	PASS
197	198	0.00	2	0.1	725	PASS
198	198	100	100	100.0	586901	PASS
199	198	5	9	6.5	38309	PASS
365	198	1	100	4.1	24221	PASS
441	443	0.01	150	78.4	78467	PASS
442	442	100	100	100.0	507499	PASS
443	442	15	24	19.7	100147	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037848.D
Acq On : 22 Sep 2025 08:59
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 22 13:51:02 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: BN037848.D\data.ms

(70) Pentachlorophenol (C)

16.887min (+ 0.001) 31161.16 ng

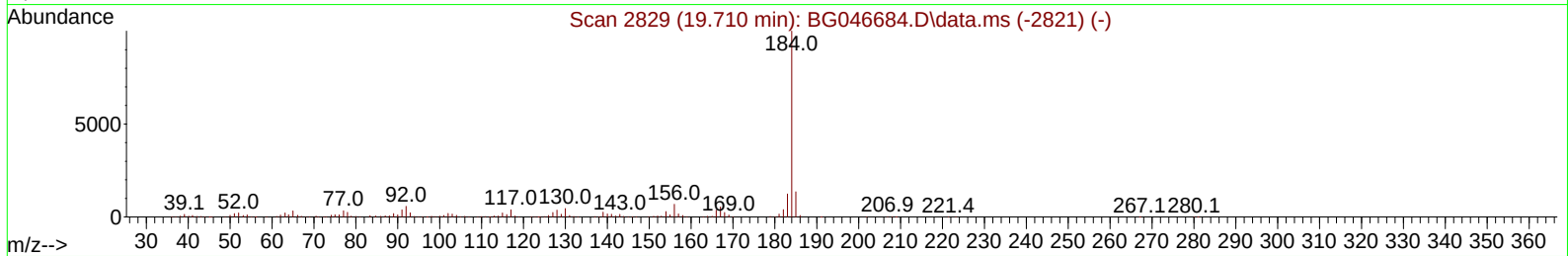
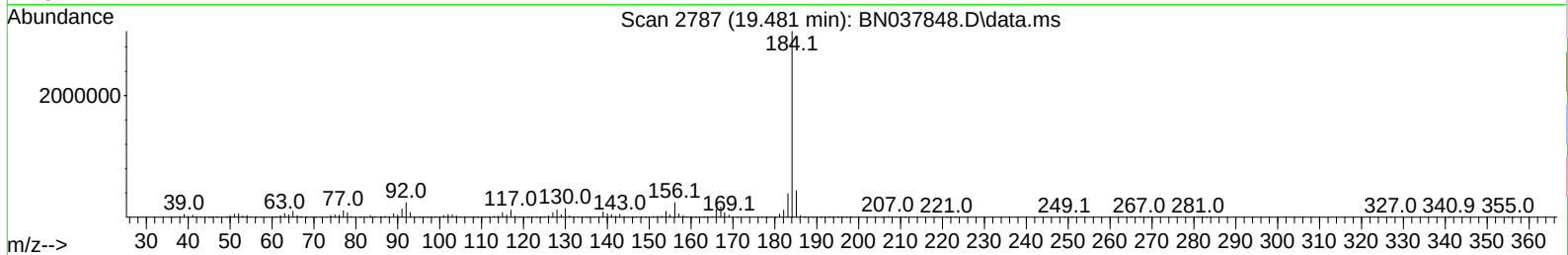
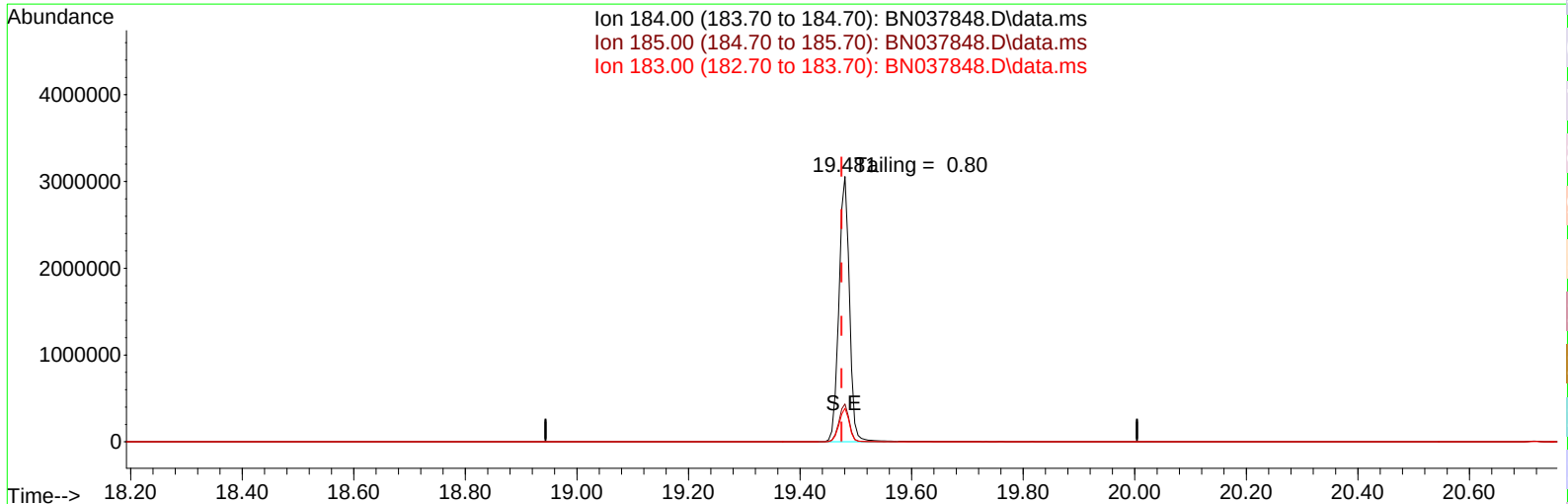
response 916310

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.71
264.00	61.60	58.94
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037848.D
Acq On : 22 Sep 2025 08:59
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 22 13:51:02 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: BN037848.D\data.ms

(77) Benzidine

19.481min (+ 0.006) 0.00 ng

response 4033195

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.29
183.00	13.20	12.68
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
9/22/2025	BNA_N	<u>BN037848.D</u>
Compound Name	Response	Retention Time
DDT	1976892	20.716
DDD	45417	20.275
DDE	4263	19.769
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
49680	2026572	2.45

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:	PB169743BL	SDG No.:	Q3127
Lab Sample ID:	PB169743BL	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
BN037850.D	1	09/18/25 11:35	09/22/25 10:55	PB169743

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		78%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		83%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		92%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.32		58 - 132		80%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6060	7.825				
1146-65-2	Naphthalene-d8	15200	10.626				
15067-26-2	Acenaphthene-d10	6030	14.484				
1517-22-2	Phenanthrene-d10	9990	17.223				
1719-03-5	Chrysene-d12	9230	21.411				
1520-96-3	Perylene-d12	8950	23.735				

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\BN092225\
Data File : BN037850.D
Acq On : 22 Sep 2025 10:55
Operator : RC/JU
Sample : PB169743BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169743BL

Quant Time: Sep 22 11:55:08 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	7.825	152	6064	0.400	ng	-0.01
7) Naphthalene-d8	10.626	136	15212	0.400	ng	-0.02
13) Acenaphthene-d10	14.484	164	6032	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	9991	0.400	ng	-0.01
29) Chrysene-d12	21.411	240	9227	0.400	ng	0.00
35) Perylene-d12	23.735	264	8954	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.391	112	4745	0.341	ng	0.00
5) Phenol-d6	6.980	99	5509	0.305	ng	0.00
8) Nitrobenzene-d5	8.971	82	4099	0.368	ng	-0.02
11) 2-Methylnaphthalene-d10	12.222	152	6310	0.313	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	437	0.278	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	9105	0.361	ng	-0.01
27) Fluoranthene-d10	19.257	212	8329	0.332	ng	-0.01
31) Terphenyl-d14	19.856	244	5979	0.319	ng	-0.01

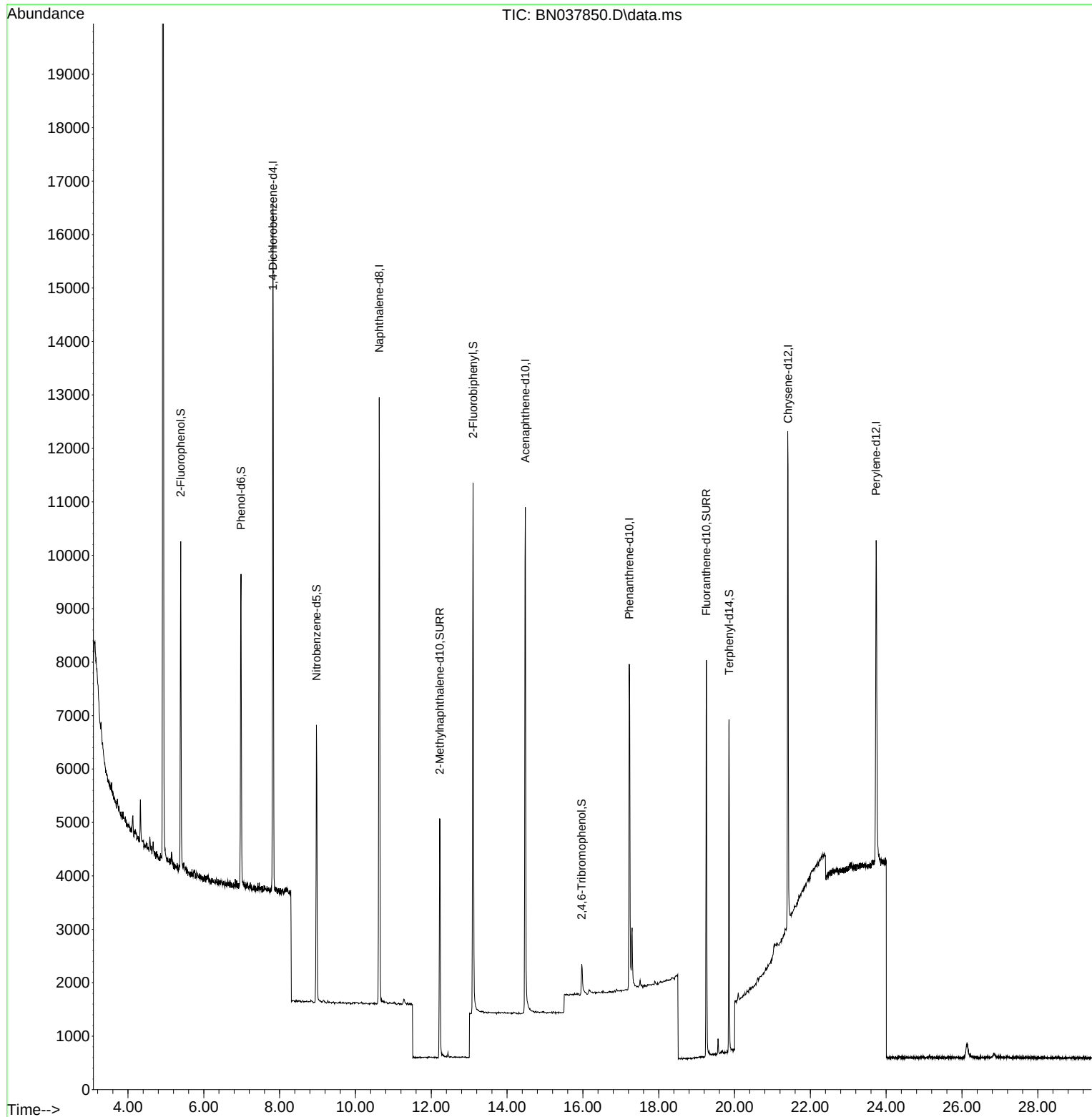
Target Compounds	Qvalue

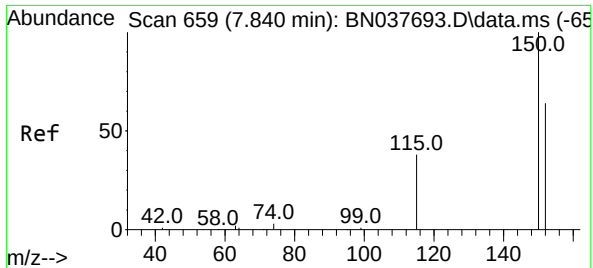
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037850.D
Acq On : 22 Sep 2025 10:55
Operator : RC/JU
Sample : PB169743BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169743BL

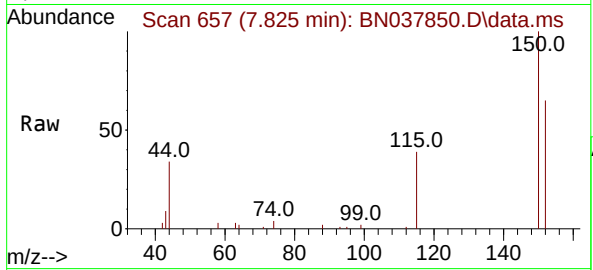
Quant Time: Sep 22 11:55:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



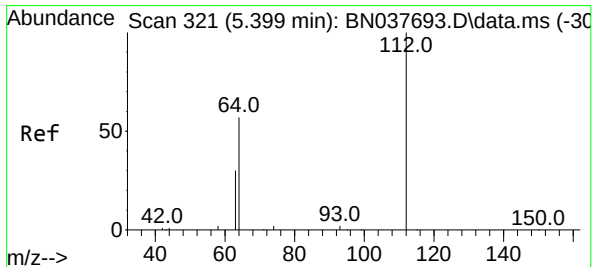
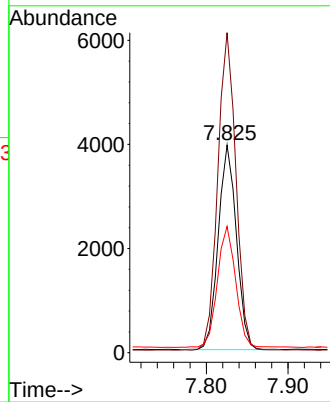
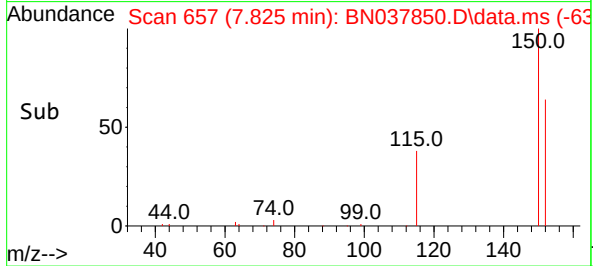


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN037850.D
Acq: 22 Sep 2025 10:55

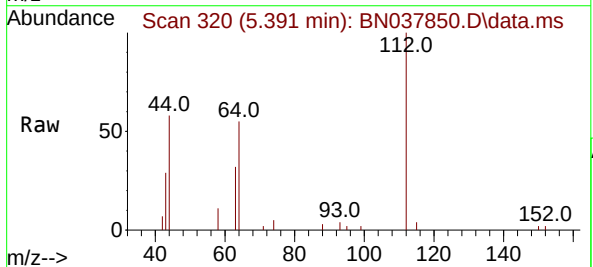
Instrument :
BNA_N
ClientSampleId :
PB169743BL



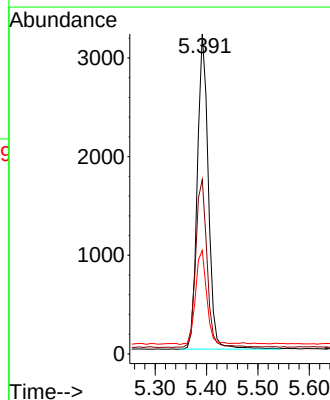
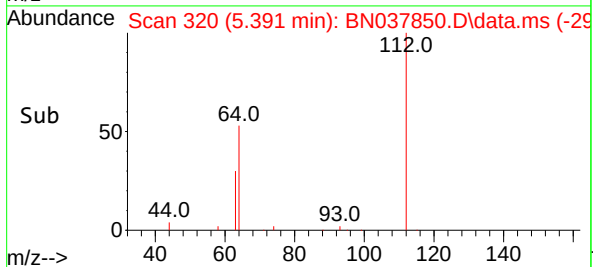
Tgt Ion:152 Resp: 6064
Ion Ratio Lower Upper
152 100
150 154.2 124.5 186.7
115 60.8 49.2 73.8

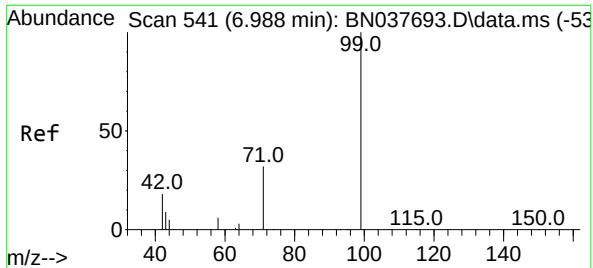


#4
2-Fluorophenol
Concen: 0.341 ng
RT: 5.391 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037850.D
Acq: 22 Sep 2025 10:55



Tgt Ion:112 Resp: 4745
Ion Ratio Lower Upper
112 100
64 54.9 44.9 67.3
63 30.3 24.7 37.1

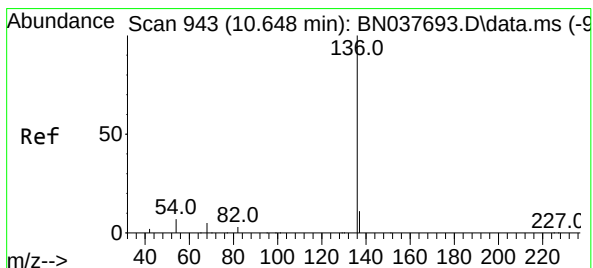
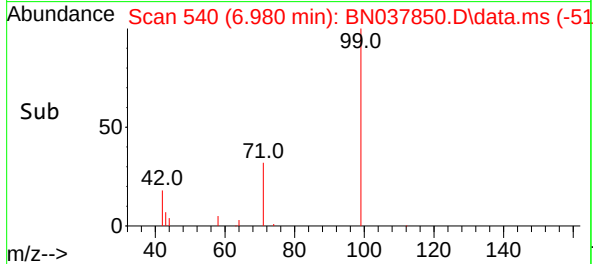
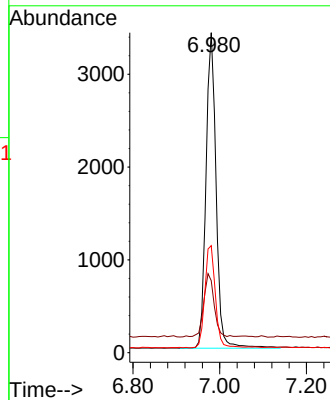
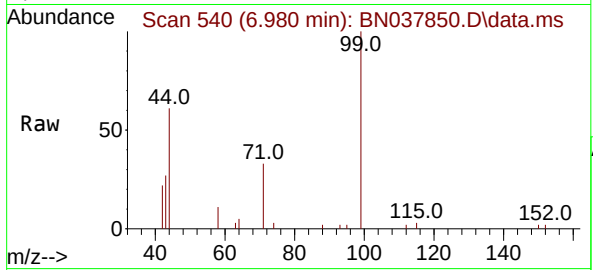




#5
Phenol-d6
Concen: 0.305 ng
RT: 6.980 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037850.D
Acq: 22 Sep 2025 10:55

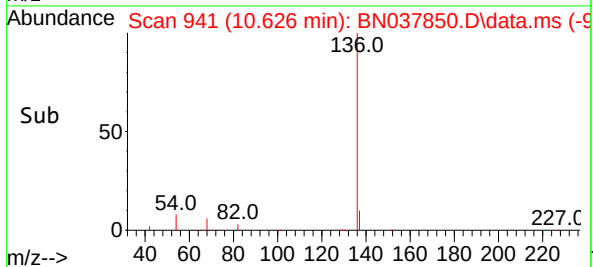
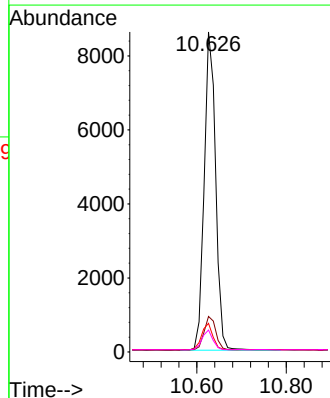
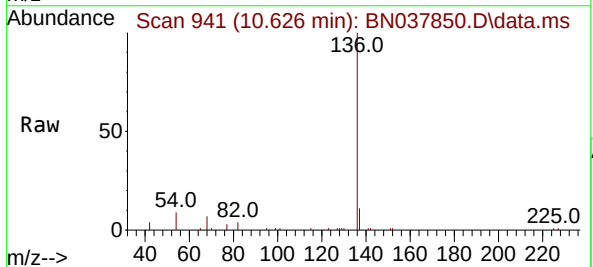
Instrument :
BNA_N
ClientSampleId :
PB169743BL

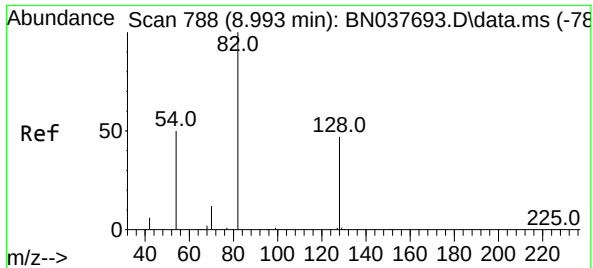
Tgt Ion: 99 Resp: 5509
Ion Ratio Lower Upper
99 100
42 20.7 16.6 24.8
71 33.6 26.7 40.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.022 min
Lab File: BN037850.D
Acq: 22 Sep 2025 10:55

Tgt Ion: 136 Resp: 15212
Ion Ratio Lower Upper
136 100
137 11.1 9.1 13.7
54 9.0 6.3 9.5
68 6.8 5.0 7.4

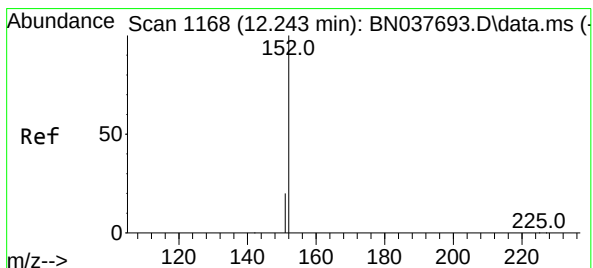
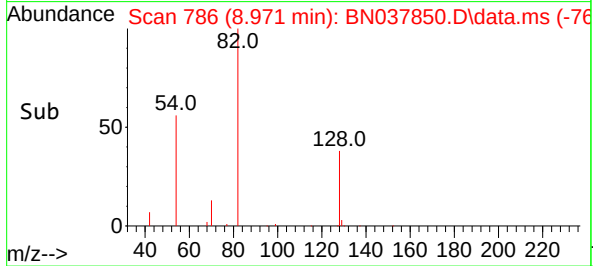
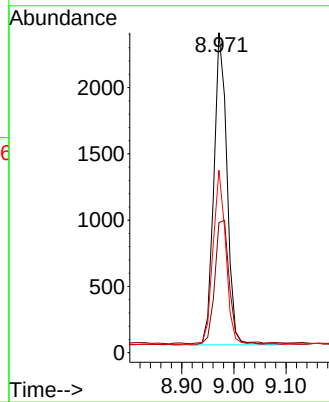
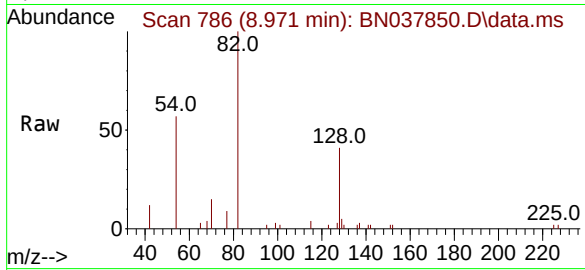




#8
Nitrobenzene-d5
Concen: 0.368 ng
RT: 8.971 min Scan# 71
Delta R.T. -0.022 min
Lab File: BN037850.D
Acq: 22 Sep 2025 10:55

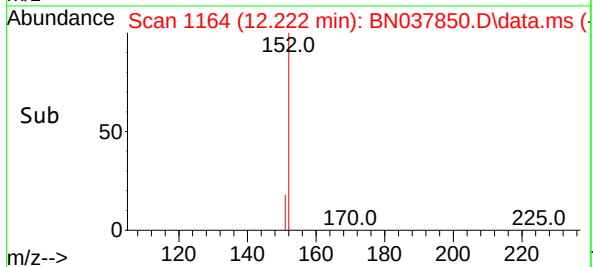
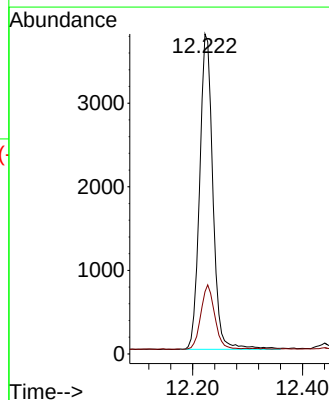
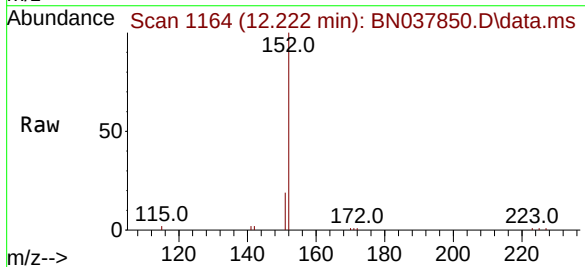
Instrument :
BNA_N
ClientSampleId :
PB169743BL

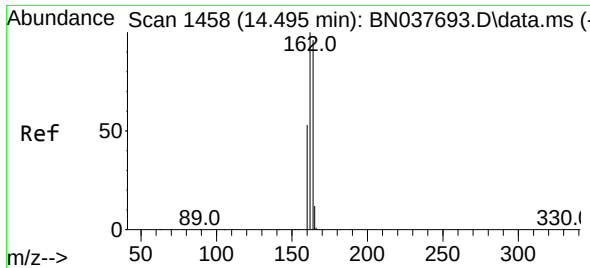
Tgt Ion:	82	Resp:	4099
Ion Ratio	Lower	Upper	
82	100		
128	40.6	38.3	57.5
54	57.0	41.4	62.2



#11
2-Methylnaphthalene-d10
Concen: 0.313 ng
RT: 12.222 min Scan# 1164
Delta R.T. -0.020 min
Lab File: BN037850.D
Acq: 22 Sep 2025 10:55

Tgt Ion:	152	Resp:	6310
Ion Ratio	Lower	Upper	
152	100		
151	21.4	17.0	25.6

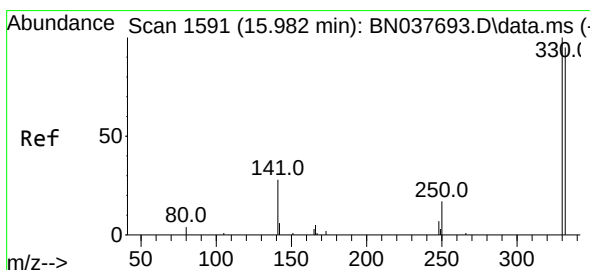
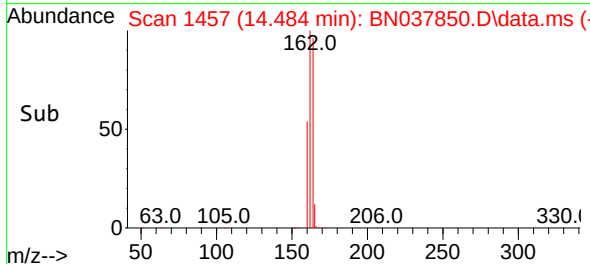
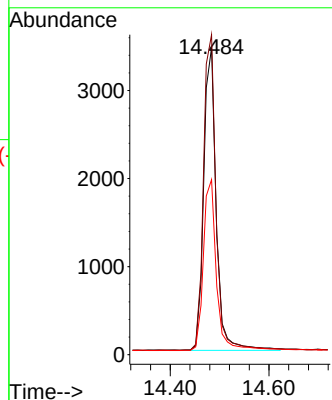
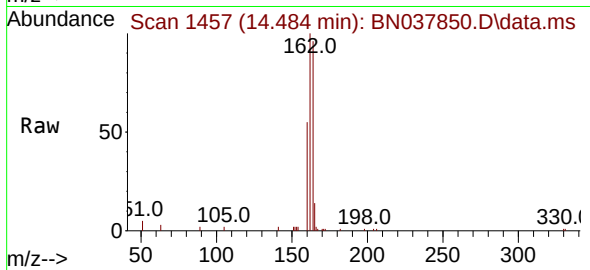




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037850.D
Acq: 22 Sep 2025 10:55

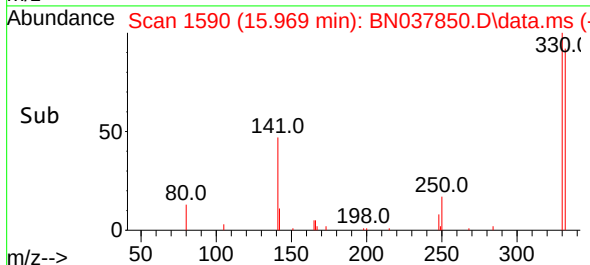
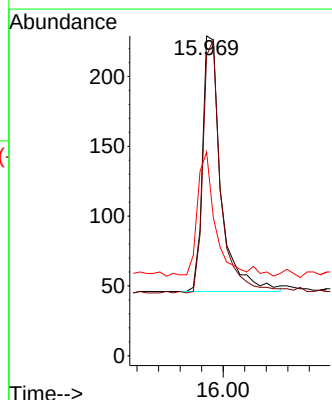
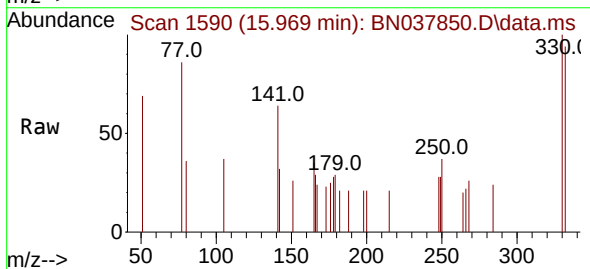
Instrument :
BNA_N
ClientSampleId :
PB169743BL

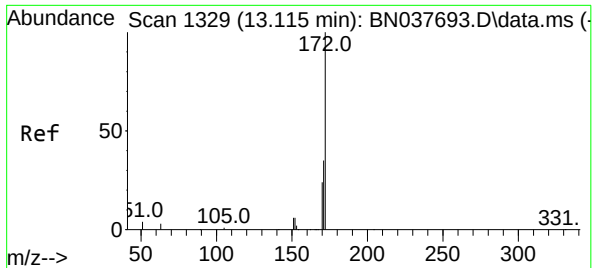
Tgt Ion:164 Resp: 6032
Ion Ratio Lower Upper
164 100
162 104.2 83.1 124.7
160 57.0 44.3 66.5



#14
2,4,6-Tribromophenol
Concen: 0.278 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037850.D
Acq: 22 Sep 2025 10:55

Tgt Ion:330 Resp: 437
Ion Ratio Lower Upper
330 100
332 95.2 75.3 112.9
141 44.2 35.0 52.4

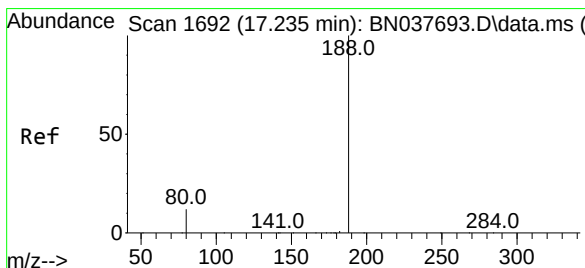
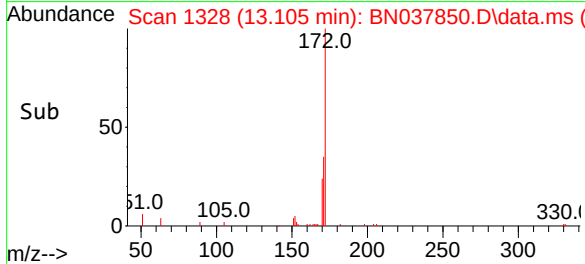
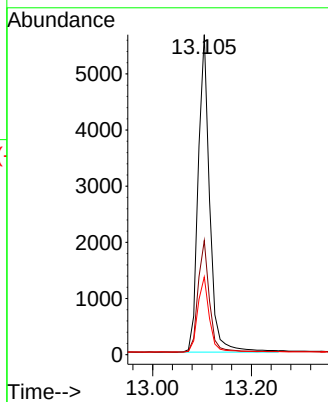
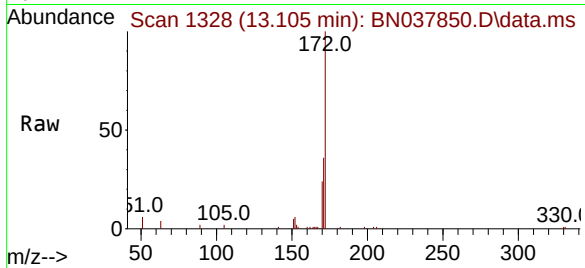




#15
2-Fluorobiphenyl
Concen: 0.361 ng
RT: 13.105 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN037850.D
Acq: 22 Sep 2025 10:55

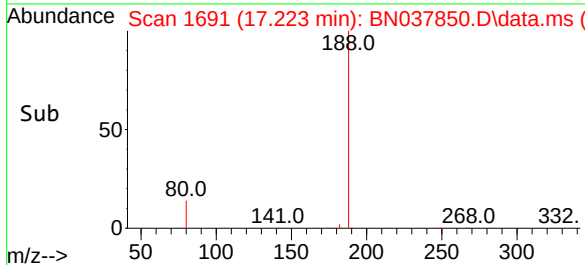
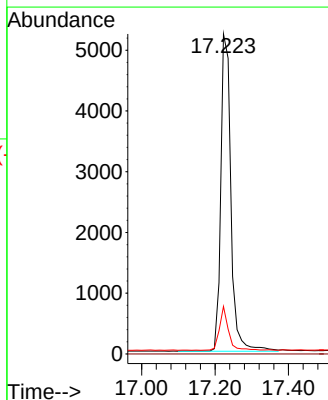
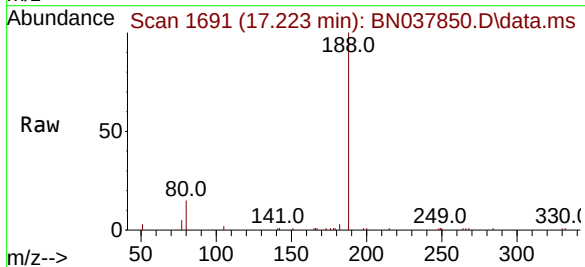
Instrument :
BNA_N
ClientSampleId :
PB169743BL

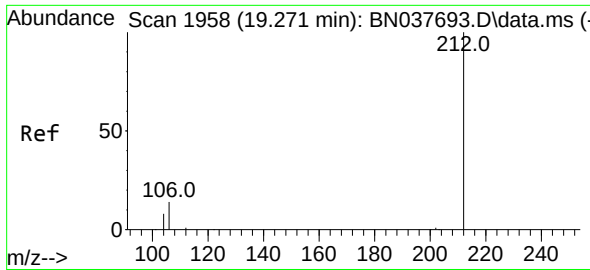
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.6	43.0
170	24.3	19.8	29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.013 min
Lab File: BN037850.D
Acq: 22 Sep 2025 10:55

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.9	10.6	15.8

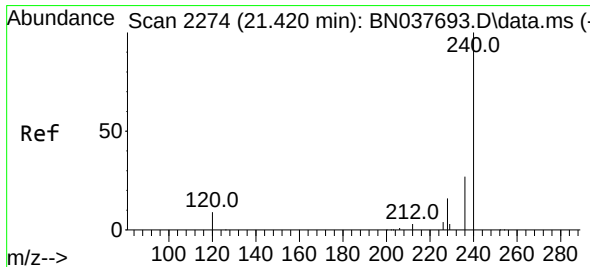
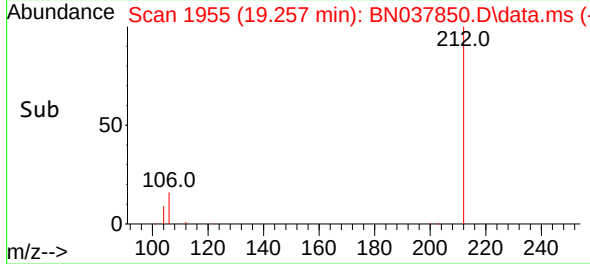
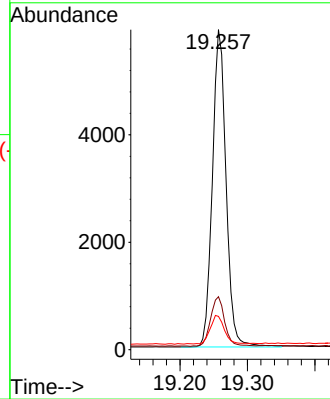
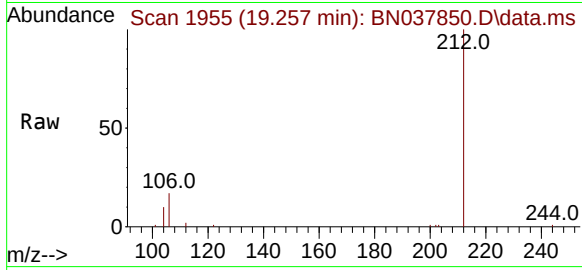




#27
Fluoranthene-d10
Concen: 0.332 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037850.D
Acq: 22 Sep 2025 10:55

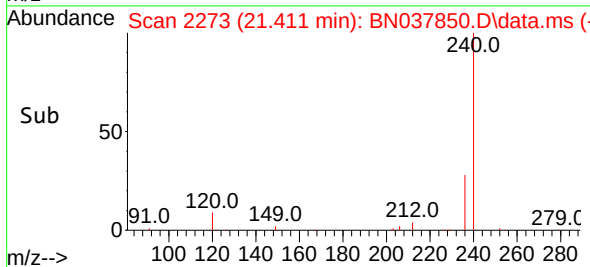
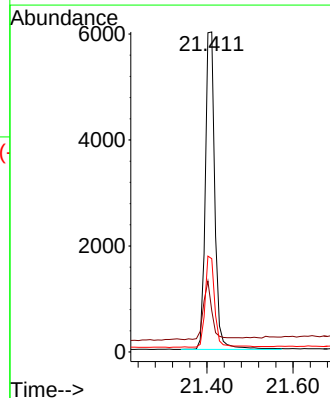
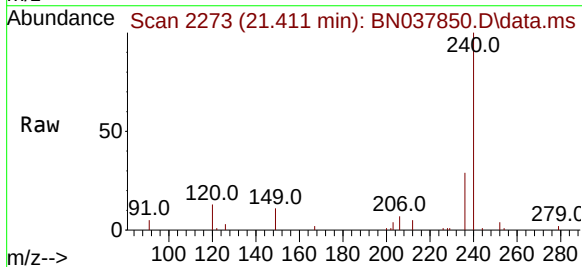
Instrument :
BNA_N
ClientSampleId :
PB169743BL

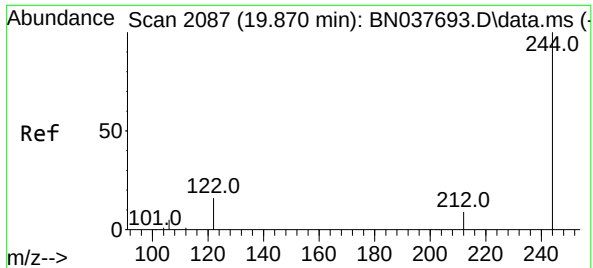
Tgt Ion:	212	Resp:	8329
Ion	Ratio	Lower	Upper
212	100		
106	16.2	12.2	18.2
104	9.2	6.9	10.3



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037850.D
Acq: 22 Sep 2025 10:55

Tgt Ion:	240	Resp:	9227
Ion	Ratio	Lower	Upper
240	100		
120	12.9	9.2	13.8
236	29.1	22.6	33.8

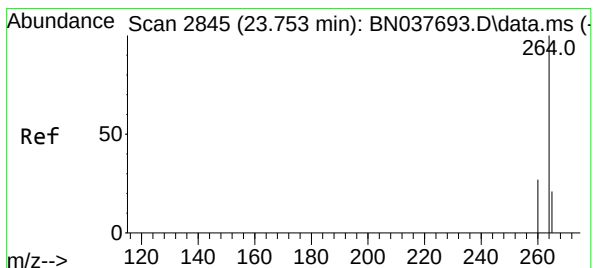
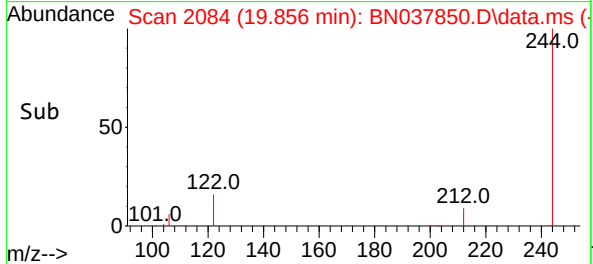
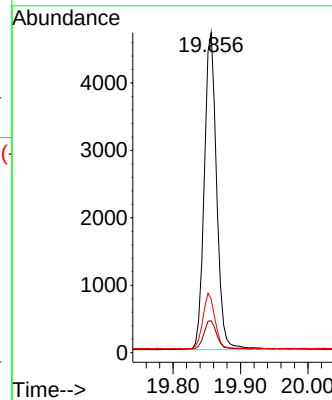
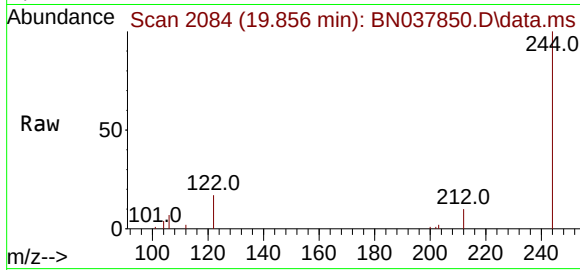




#31
Terphenyl-d14
Concen: 0.319 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037850.D
Acq: 22 Sep 2025 10:55

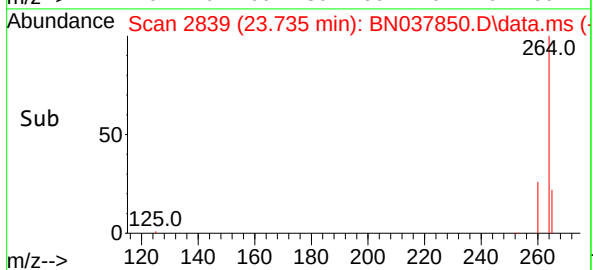
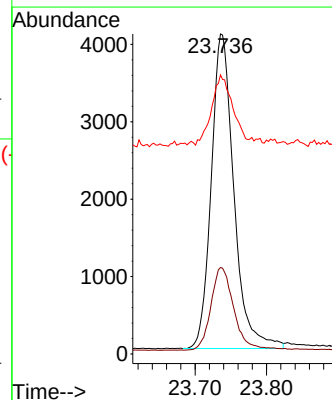
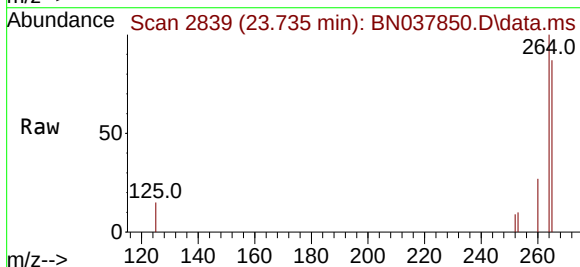
Instrument :
BNA_N
ClientSampleId :
PB169743BL

Tgt Ion:244 Resp: 5979
Ion Ratio Lower Upper
244 100
212 9.9 7.5 11.3
122 16.8 13.2 19.8



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.735 min Scan# 2839
Delta R.T. -0.018 min
Lab File: BN037850.D
Acq: 22 Sep 2025 10:55

Tgt Ion:264 Resp: 8954
Ion Ratio Lower Upper
264 100
260 27.0 21.8 32.8
265 87.2 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:	PB169743BS	SDG No.:	Q3127
Lab Sample ID:	PB169743BS	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
BN037829.D	1	09/18/25 11:35	09/20/25 00:03	PB169743

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.32		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		82%	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	0.31		58 - 132		77%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4920	7.833				
1146-65-2	Naphthalene-d8	12500	10.637				
15067-26-2	Acenaphthene-d10	5130	14.484				
1517-22-2	Phenanthrene-d10	8050	17.223				
1719-03-5	Chrysene-d12	7500	21.402				
1520-96-3	Perylene-d12	7480	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 : BN037829.D
 Acq On : 20 Sep 2025 00:03
 Operator : RC/JU
 Sample : PB169743BS
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB169743BS

Quant Time: Sep 20 00:39:02 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

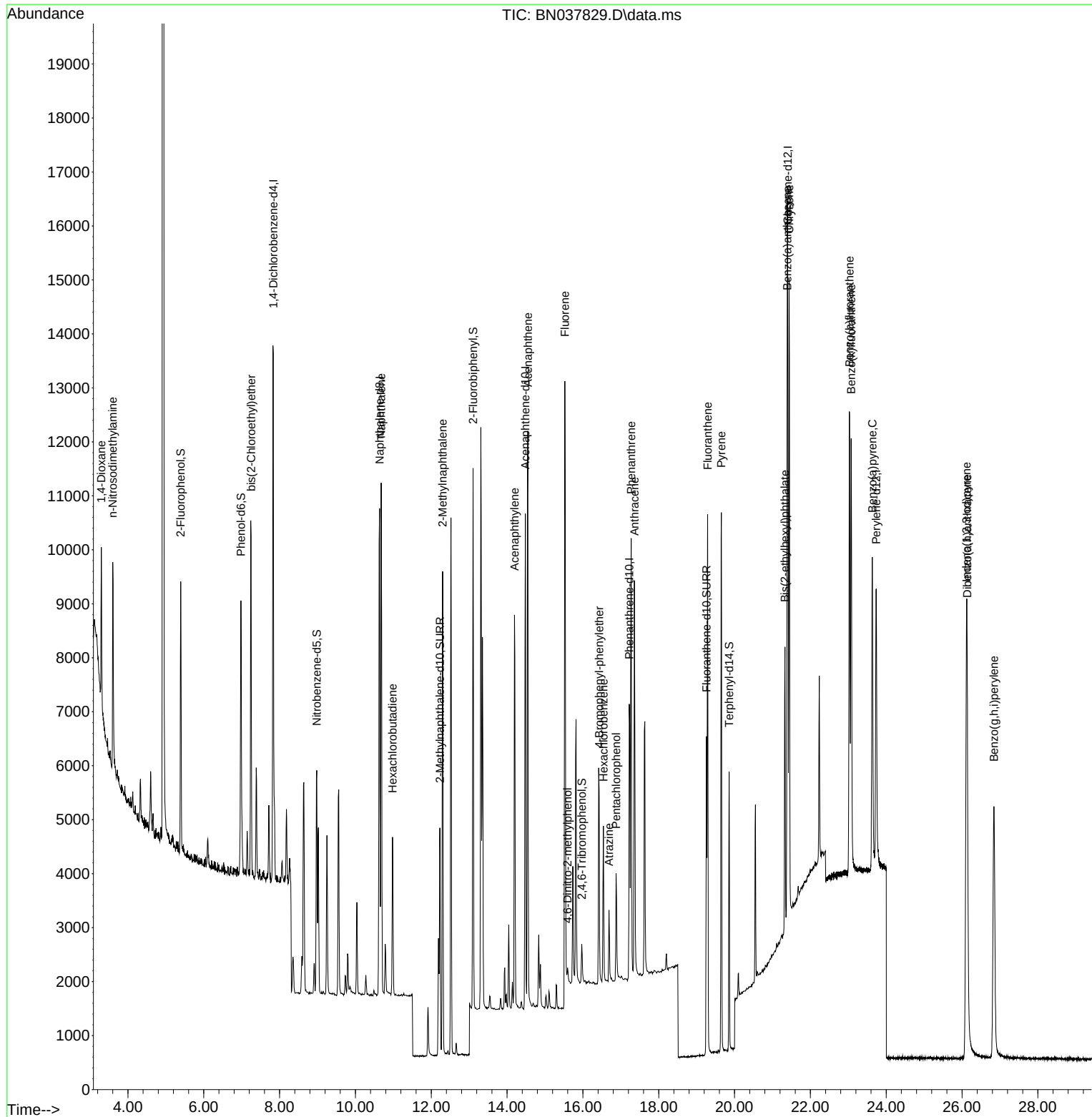
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	4918	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	12547	0.400	ng	#-0.01
13) Acenaphthene-d10	14.484	164	5131	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	8052	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	7504	0.400	ng	#-0.02
35) Perylene-d12	23.736	264	7479	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	3848	0.341	ng	0.00
5) Phenol-d6	6.981	99	4516	0.308	ng	0.00
8) Nitrobenzene-d5	8.982	82	3403	0.371	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	5621	0.338	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	480	0.359	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	8172	0.381	ng	-0.01
27) Fluoranthene-d10	19.257	212	6609	0.327	ng	-0.01
31) Terphenyl-d14	19.856	244	4714	0.310	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	1613	0.315	ng	# 71
3) n-Nitrosodimethylamine	3.601	42	2293	0.343	ng	# 94
6) bis(2-Chloroethyl)ether	7.248	93	4720	0.361	ng	100
9) Naphthalene	10.680	128	11986	0.349	ng	100
10) Hexachlorobutadiene	10.979	225	2301	0.371	ng	# 100
12) 2-Methylnaphthalene	12.299	142	6427	0.303	ng	97
16) Acenaphthylene	14.195	152	8775	0.373	ng	100
17) Acenaphthene	14.548	154	5527	0.347	ng	98
18) Fluorene	15.523	166	6179	0.321	ng	99
20) 4,6-Dinitro-2-methylph...	15.597	198	213	0.286	ng	# 59
21) 4-Bromophenyl-phenylether	16.429	248	1819	0.346	ng	96
22) Hexachlorobenzene	16.540	284	2364	0.391	ng	98
23) Atrazine	16.689	200	1128	0.338	ng	# 95
24) Pentachlorophenol	16.875	266	1133	0.646	ng	93
25) Phenanthrene	17.273	178	9016	0.356	ng	99
26) Anthracene	17.360	178	8056	0.359	ng	100
28) Fluoranthene	19.290	202	9102	0.327	ng	100
30) Pyrene	19.652	202	9186	0.313	ng	100
32) Benzo(a)anthracene	21.393	228	9473	0.362	ng	99
33) Chrysene	21.438	228	10174	0.363	ng	98
34) Bis(2-ethylhexyl)phtha...	21.331	149	2804	0.361	ng	97
36) Indeno(1,2,3-cd)pyrene	26.116	276	12452	0.396	ng	99
37) Benzo(b)fluoranthene	23.028	252	11310	0.384	ng	# 93
38) Benzo(k)fluoranthene	23.078	252	11050	0.368	ng	# 93
39) Benzo(a)pyrene	23.633	252	9415	0.399	ng	# 92
40) Dibenzo(a,h)anthracene	26.136	278	9477	0.378	ng	98
41) Benzo(g,h,i)perylene	26.841	276	10900	0.387	ng	100

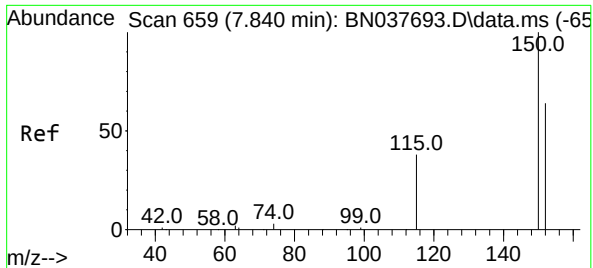
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037829.D
Acq On : 20 Sep 2025 00:03
Operator : RC/JU
Sample : PB169743BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169743BS

Quant Time: Sep 20 00:39:02 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

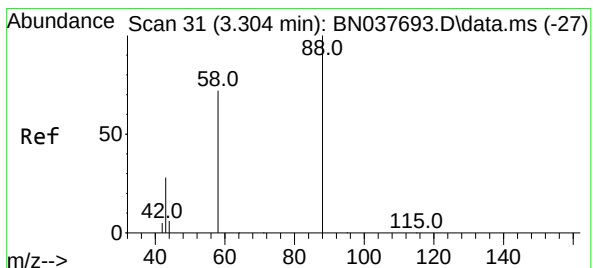
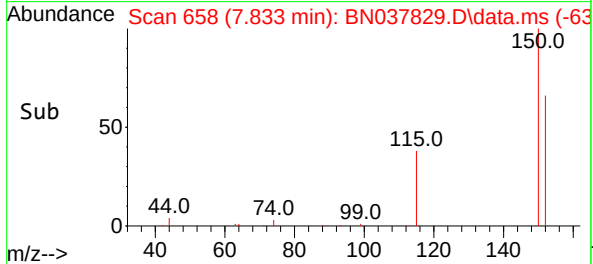
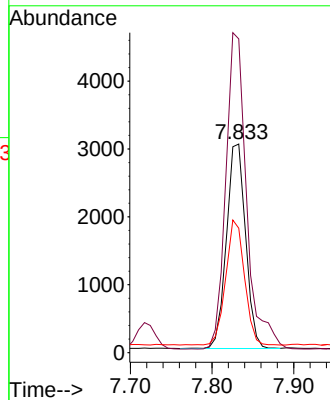
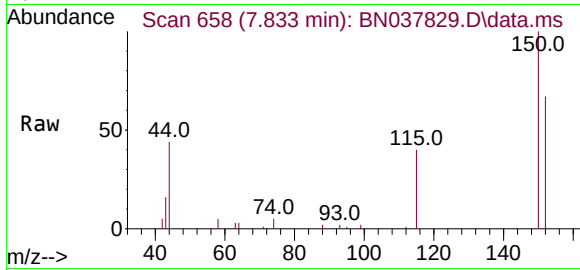




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

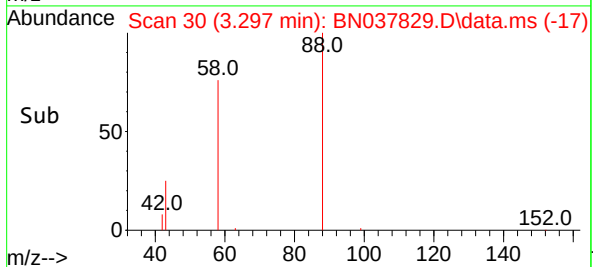
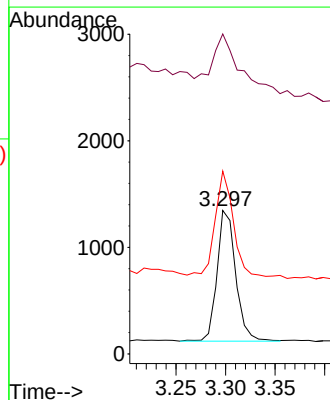
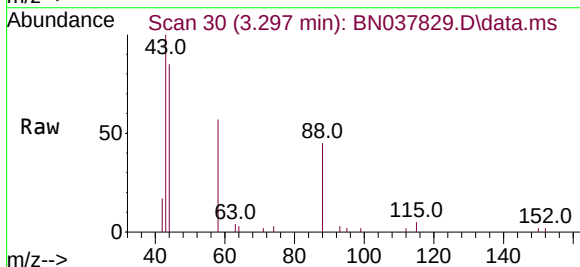
Instrument :
BNA_N
ClientSampleId :
PB169743BS

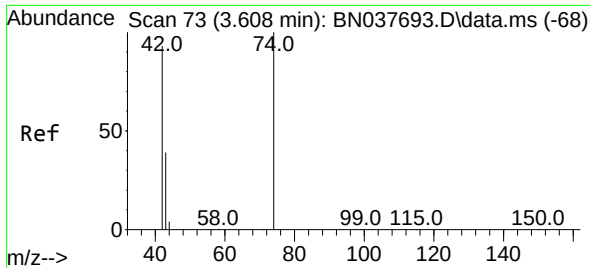
Tgt Ion:152 Resp: 4918
Ion Ratio Lower Upper
152 100
150 150.4 124.5 186.7
115 59.6 49.2 73.8



#2
1,4-Dioxane
Concen: 0.315 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

Tgt Ion: 88 Resp: 1613
Ion Ratio Lower Upper
88 100
43 78.2 26.8 40.2#
58 84.2 61.9 92.9

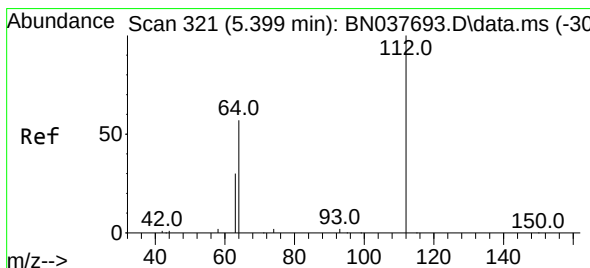
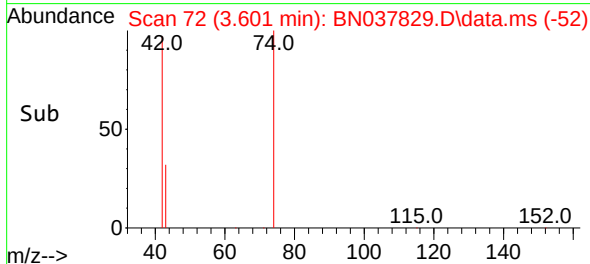
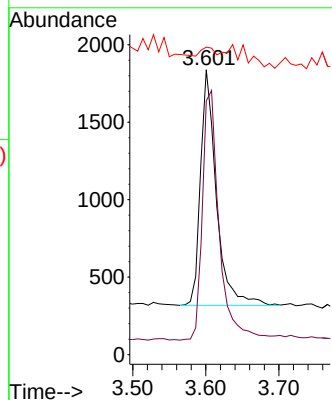
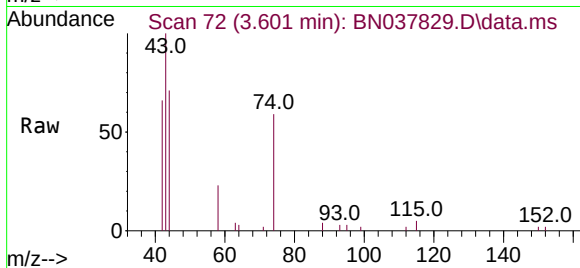




#3
n-Nitrosodimethylamine
Concen: 0.343 ng
RT: 3.601 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

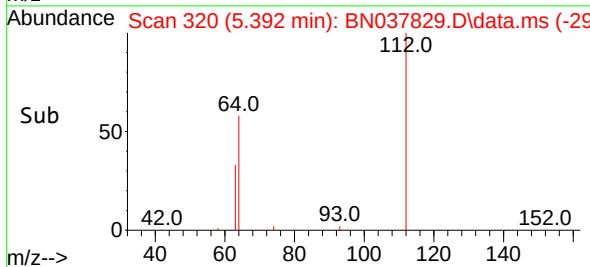
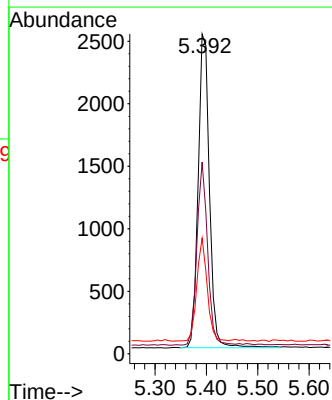
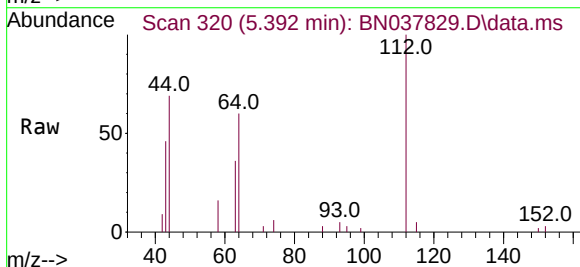
Instrument :
BNA_N
ClientSampleId :
PB169743BS

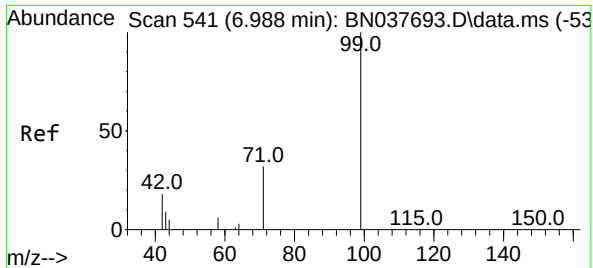
Tgt Ion: 42 Resp: 2293
Ion Ratio Lower Upper
42 100
74 112.9 86.0 129.0
44 3.0 8.4 12.6#



#4
2-Fluorophenol
Concen: 0.341 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

Tgt Ion: 112 Resp: 3848
Ion Ratio Lower Upper
112 100
64 55.2 44.9 67.3
63 29.9 24.7 37.1

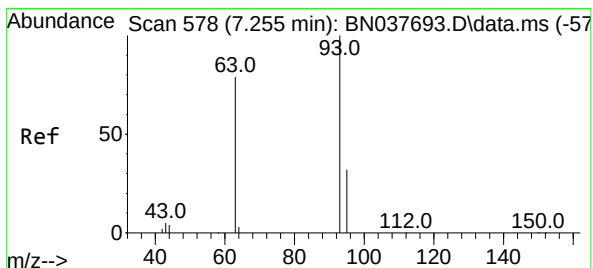
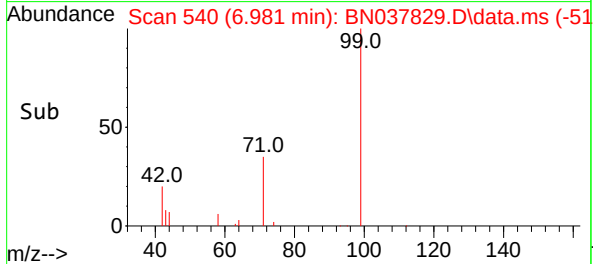
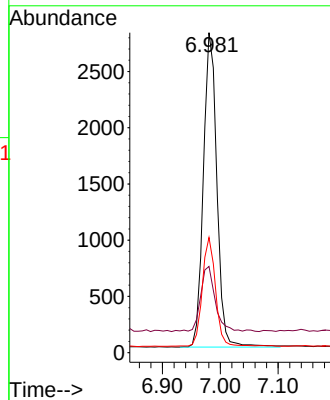
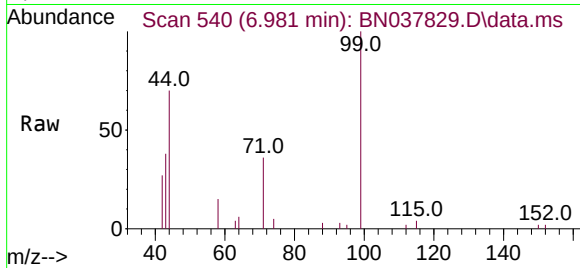




#5
Phenol-d6
Concen: 0.308 ng
RT: 6.981 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

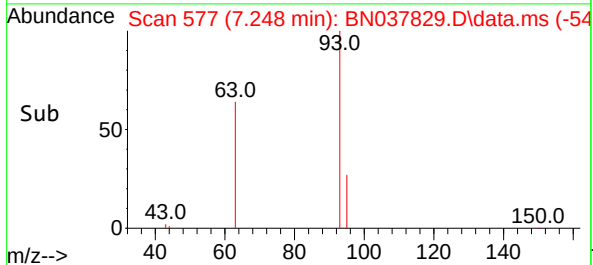
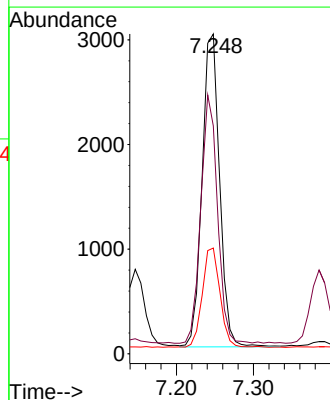
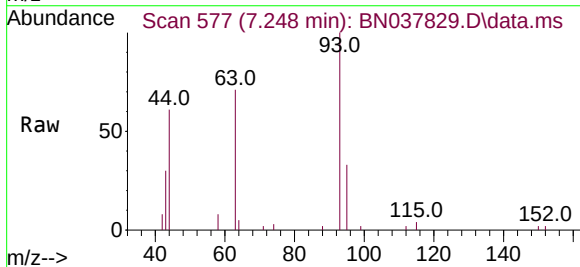
Instrument :
BNA_N
ClientSampleId :
PB169743BS

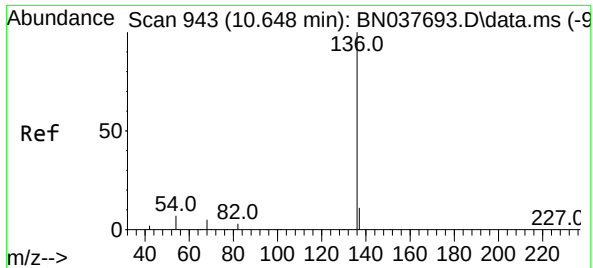
Tgt Ion: 99 Resp: 4516
Ion Ratio Lower Upper
99 100
42 22.5 16.6 24.8
71 33.9 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.361 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

Tgt Ion: 93 Resp: 4720
Ion Ratio Lower Upper
93 100
63 75.5 60.6 90.8
95 32.3 26.0 39.0

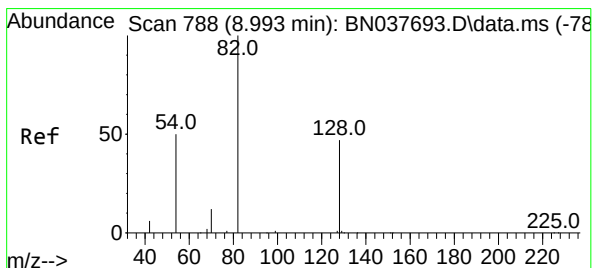
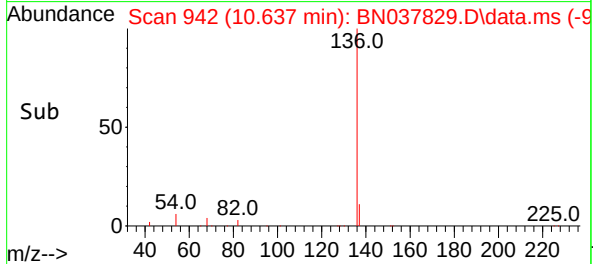
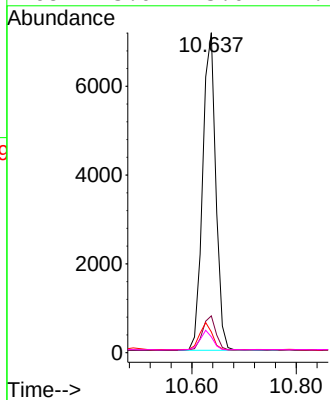
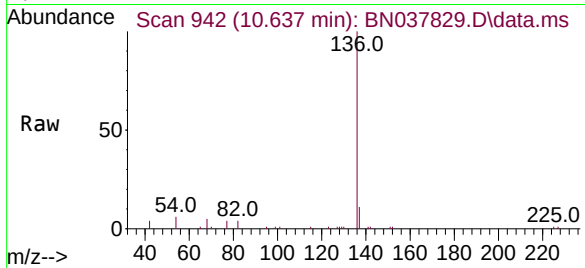




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

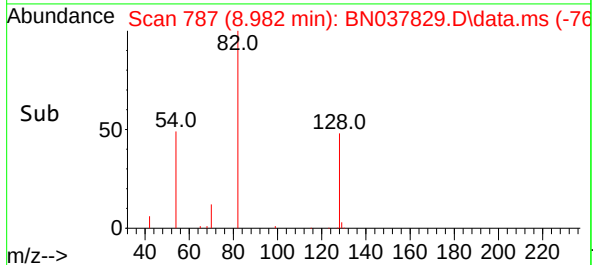
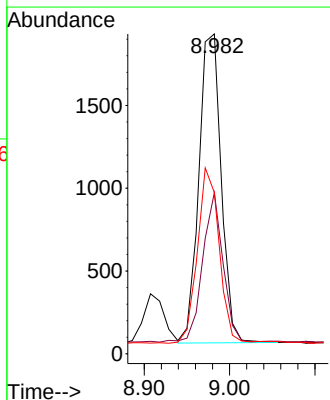
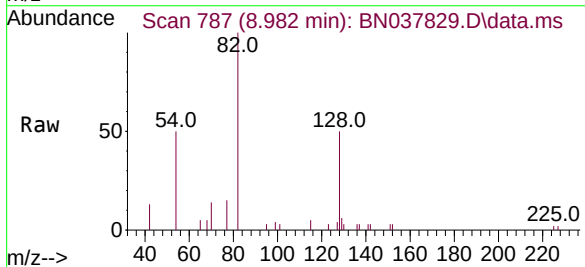
Instrument :
BNA_N
ClientSampleId :
PB169743BS

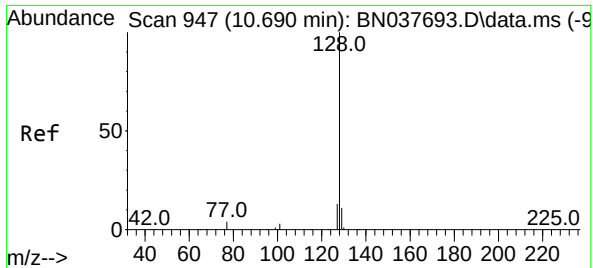
Tgt Ion:	136	Resp:	12547
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	6.5	6.3	9.5
68	5.0	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.371 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

Tgt Ion:	82	Resp:	3403
Ion	Ratio	Lower	Upper
82	100		
128	50.4	38.3	57.5
54	50.4	41.4	62.2

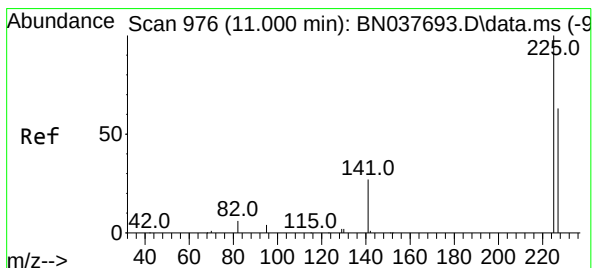
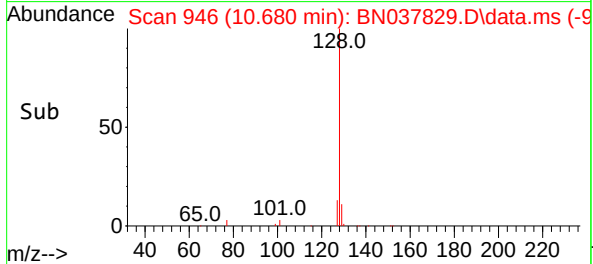
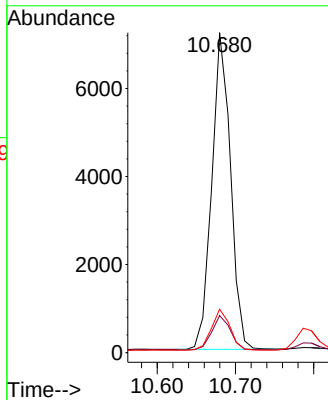
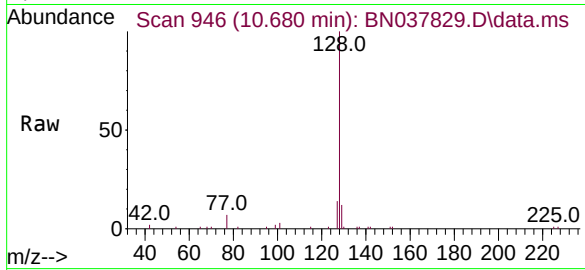




#9
Naphthalene
Concen: 0.349 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

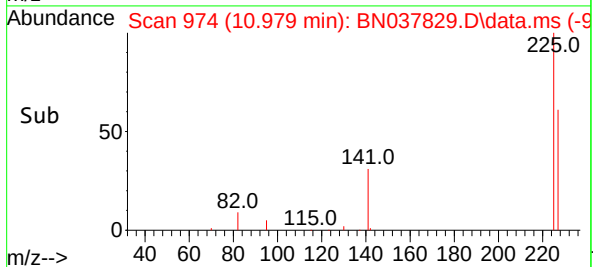
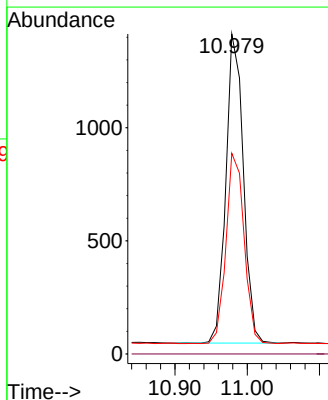
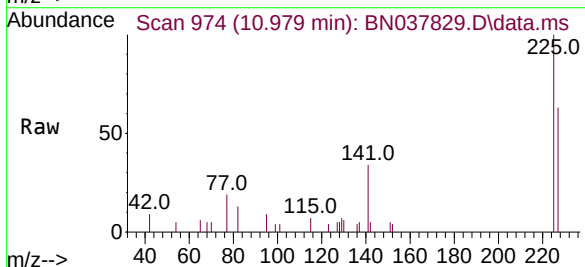
Instrument :
BNA_N
ClientSampleId :
PB169743BS

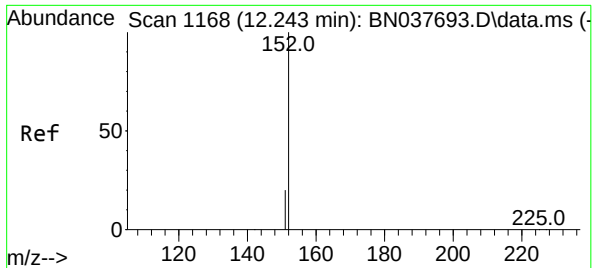
Tgt Ion:128 Resp: 11986
Ion Ratio Lower Upper
128 100
129 11.6 9.1 13.7
127 13.6 10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.371 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.021 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

Tgt Ion:225 Resp: 2301
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 50.9 76.3

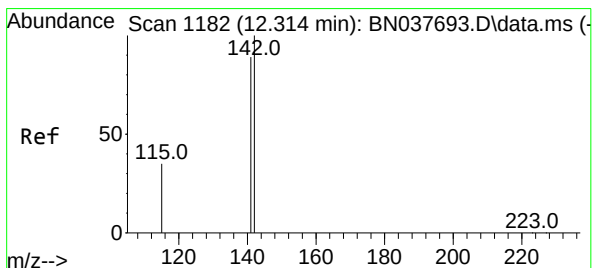
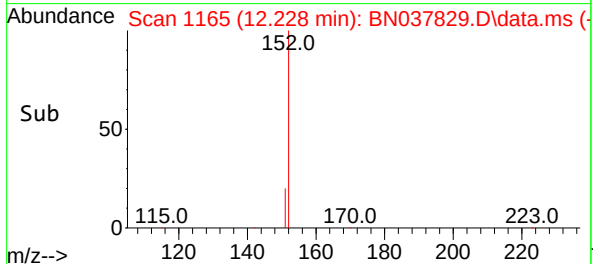
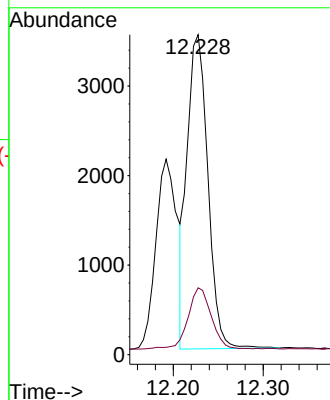
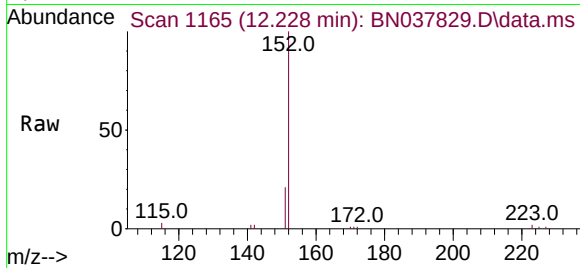




#11
2-Methylnaphthalene-d10
Concen: 0.338 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

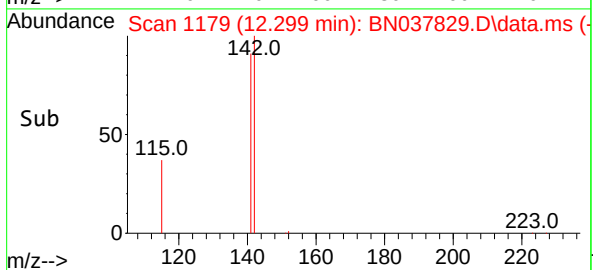
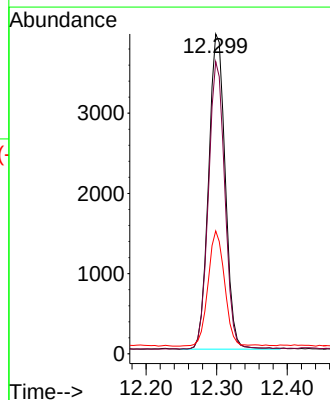
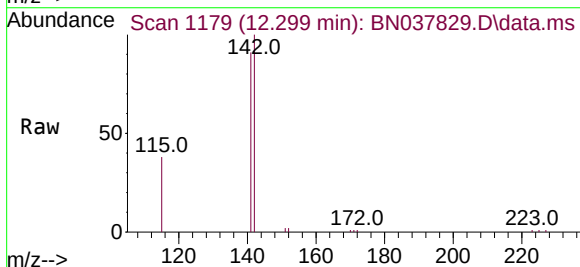
Instrument :
BNA_N
ClientSampleId :
PB169743BS

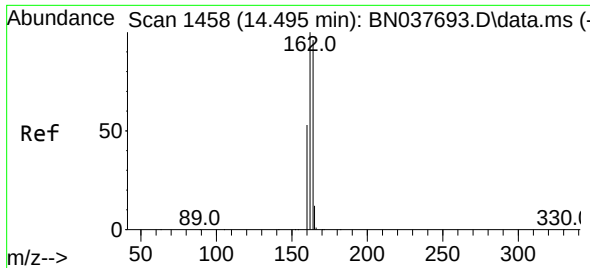
Tgt Ion:152 Resp: 5621
Ion Ratio Lower Upper
152 100
151 22.0 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.303 ng
RT: 12.299 min Scan# 1179
Delta R.T. -0.015 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

Tgt Ion:142 Resp: 6427
Ion Ratio Lower Upper
142 100
141 91.3 71.6 107.4
115 38.4 28.6 43.0

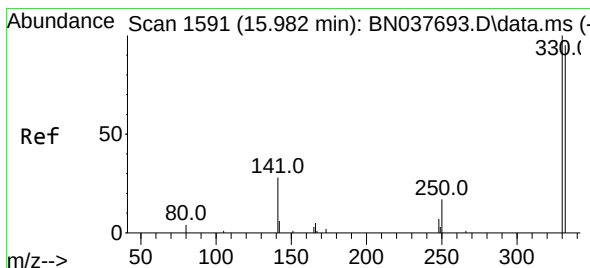
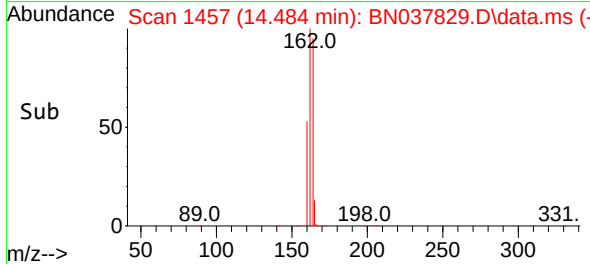
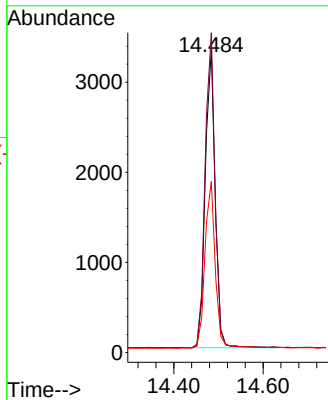
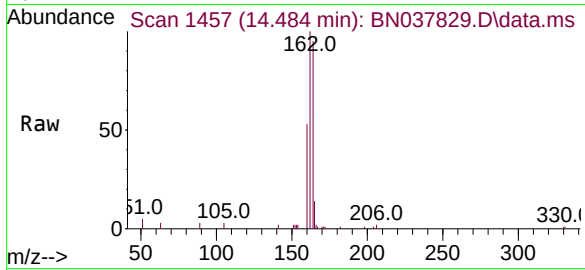




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1458
Delta R.T. -0.011 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

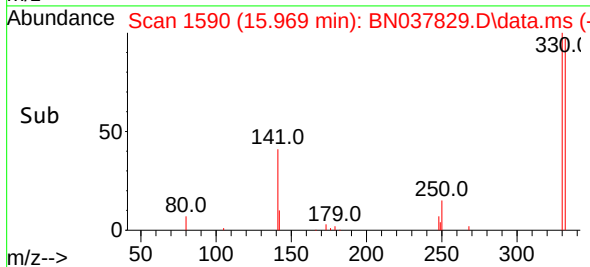
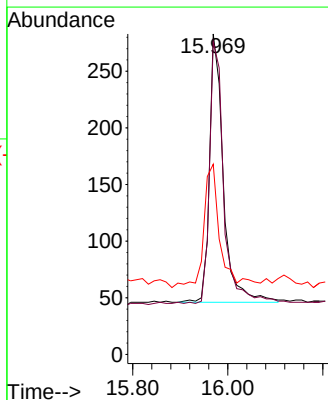
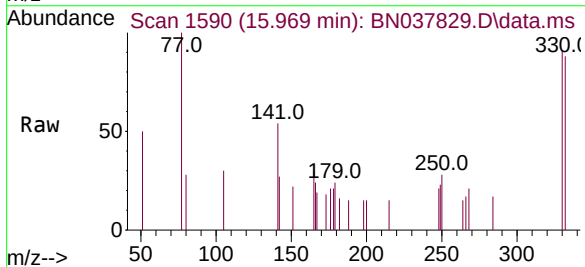
Instrument :
BNA_N
ClientSampleId :
PB169743BS

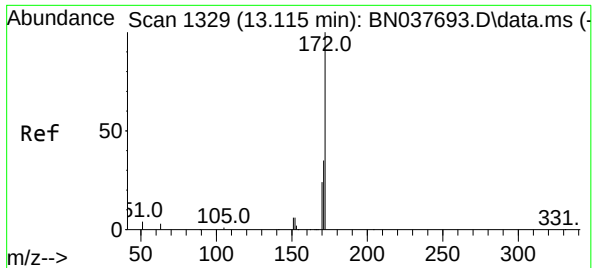
Tgt Ion:164 Resp: 5131
Ion Ratio Lower Upper
164 100
162 105.6 83.1 124.7
160 56.5 44.3 66.5



#14
2,4,6-Tribromophenol
Concen: 0.359 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

Tgt Ion:330 Resp: 480
Ion Ratio Lower Upper
330 100
332 99.8 75.3 112.9
141 54.4 35.0 52.4#

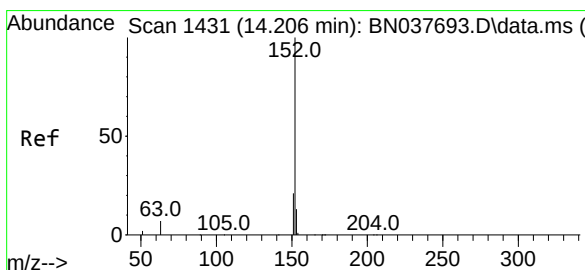
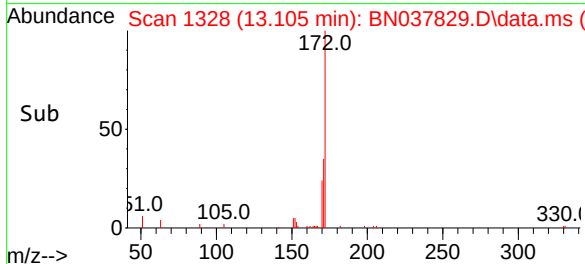
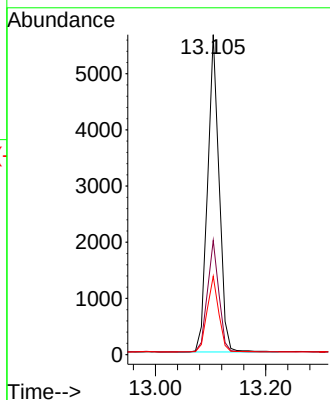
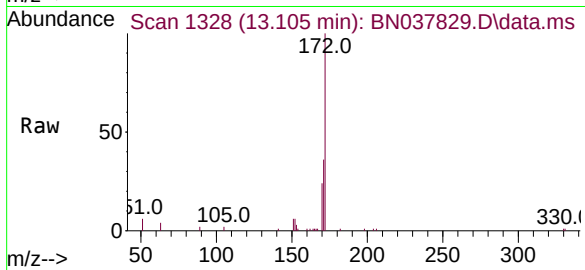




#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 13.105 min Scan# 1329
Delta R.T. -0.011 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

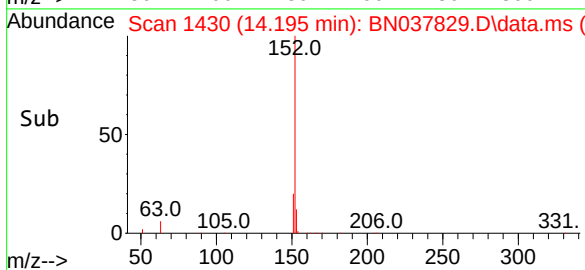
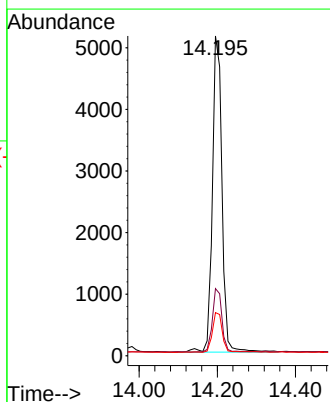
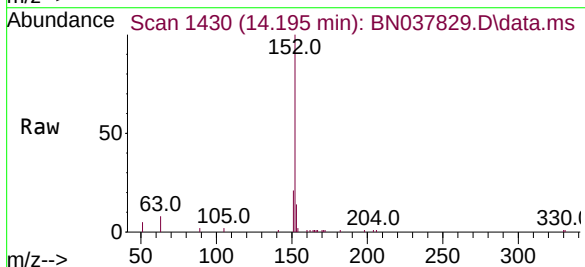
Instrument :
BNA_N
ClientSampleId :
PB169743BS

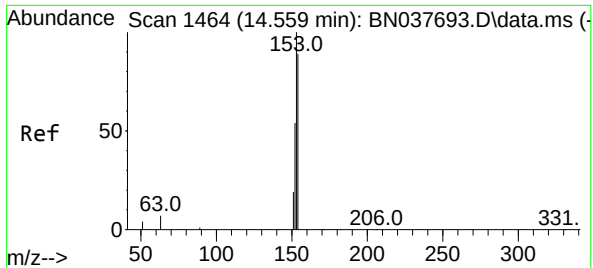
Tgt Ion:	172	Resp:	8172
Ion Ratio	Lower	Upper	
172	100		
171	35.7	28.6	43.0
170	24.5	19.8	29.8



#16
Acenaphthylene
Concen: 0.373 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.011 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

Tgt Ion:	152	Resp:	8775
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.2	24.2
153	13.1	10.4	15.6

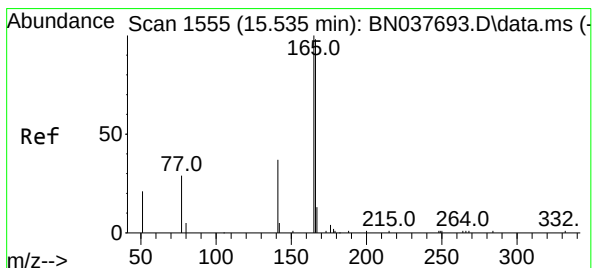
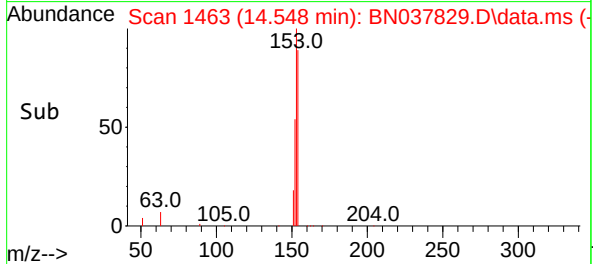
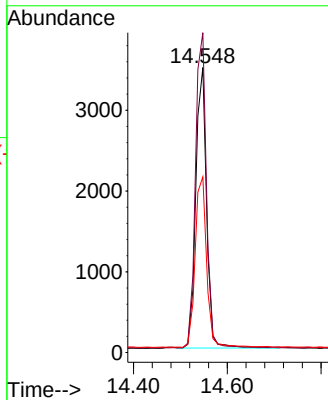
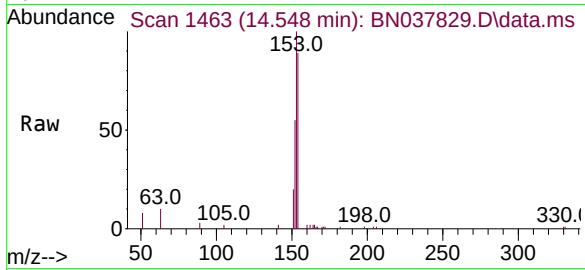




#17
Acenaphthene
Concen: 0.347 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

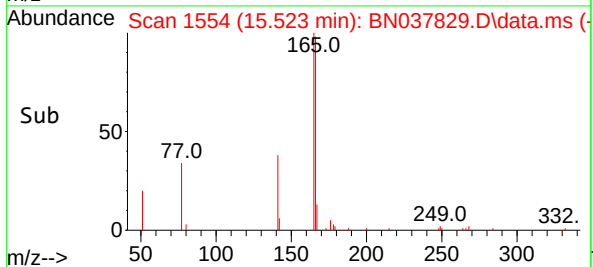
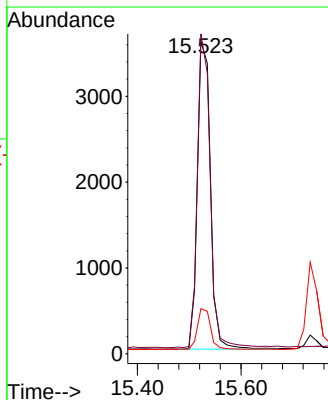
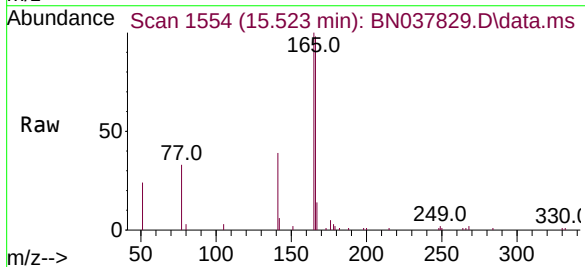
Instrument :
BNA_N
ClientSampleId :
PB169743BS

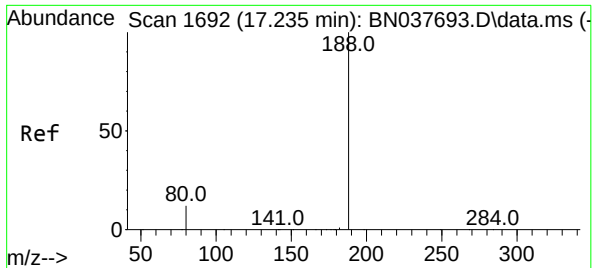
Tgt Ion:154 Resp: 5527
Ion Ratio Lower Upper
154 100
153 114.3 89.8 134.8
152 64.4 50.2 75.2



#18
Fluorene
Concen: 0.321 ng
RT: 15.523 min Scan# 1554
Delta R.T. -0.012 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

Tgt Ion:166 Resp: 6179
Ion Ratio Lower Upper
166 100
165 98.6 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. -0.012 min

Lab File: BN037829.D

Acq: 20 Sep 2025 00:03

Instrument :

BNA_N

ClientSampleId :

PB169743BS

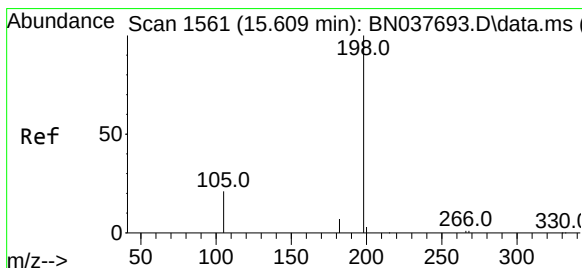
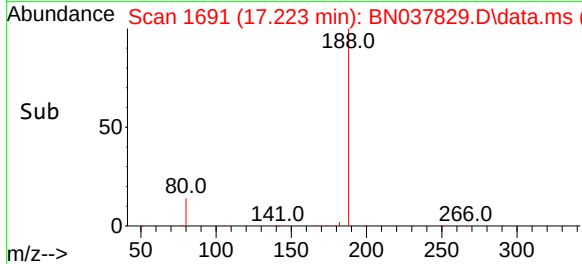
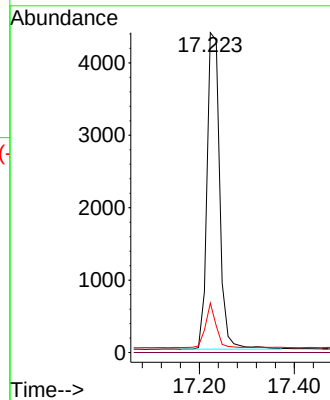
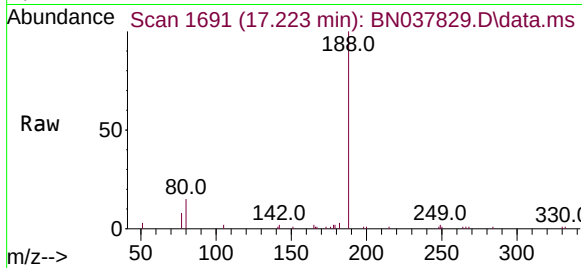
Tgt Ion:188 Resp: 8052

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.5 10.6 15.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.286 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.012 min

Lab File: BN037829.D

Acq: 20 Sep 2025 00:03

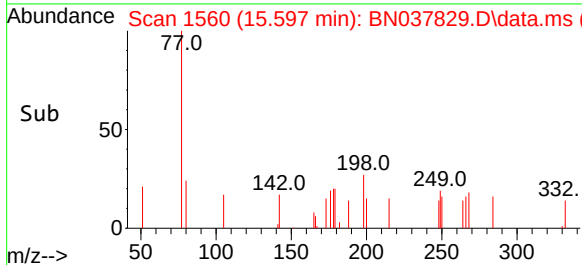
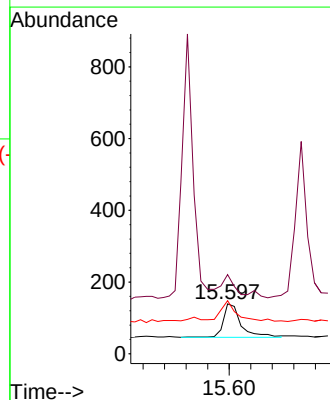
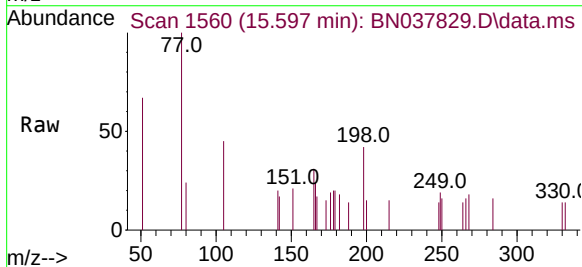
Tgt Ion:198 Resp: 213

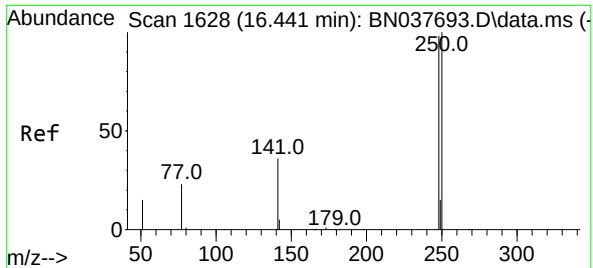
Ion Ratio Lower Upper

198 100

51 159.0 95.1 142.7#

105 106.5 53.8 80.6#

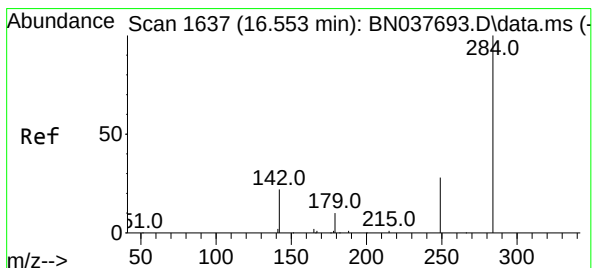
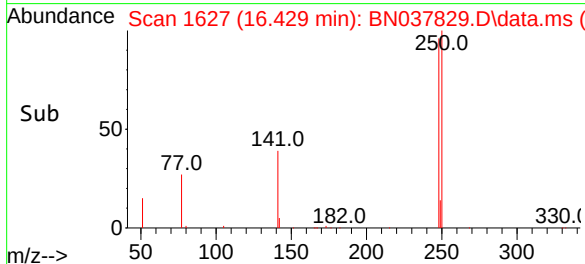
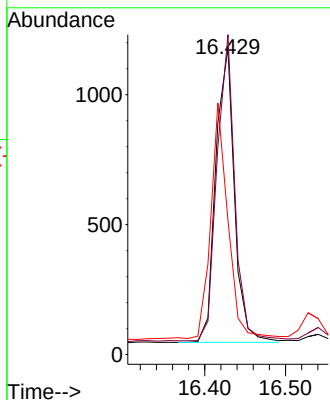
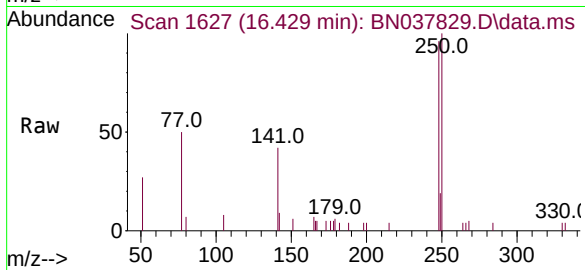




#21
4-Bromophenyl-phenylether
Concen: 0.346 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.012 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

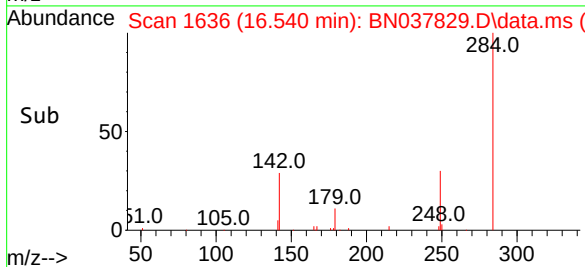
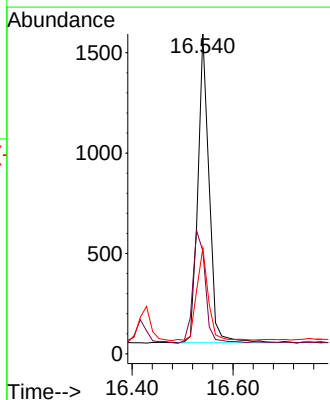
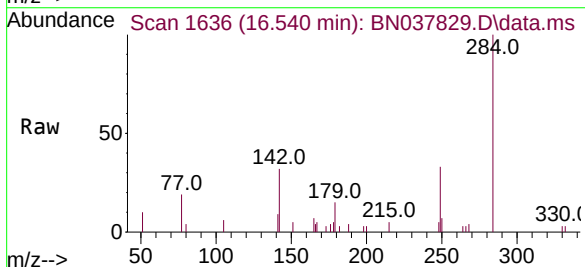
Instrument :
BNA_N
ClientSampleId :
PB169743BS

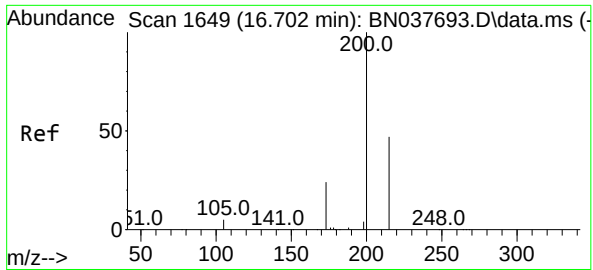
Tgt Ion	Ratio	Lower	Upper
248	100		
250	104.4	81.5	122.3
141	43.8	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.391 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

Tgt Ion	Ratio	Lower	Upper
284	100		
142	41.0	30.9	46.3
249	31.2	24.8	37.2

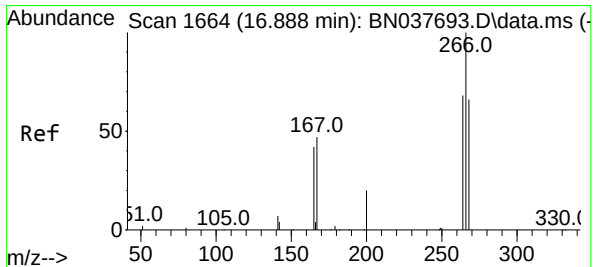
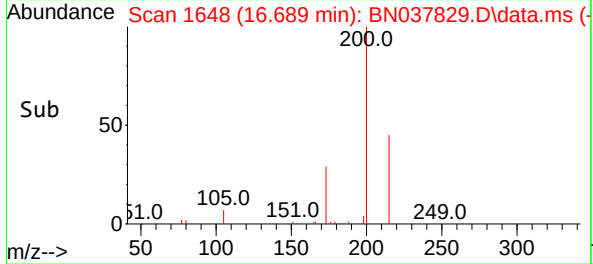
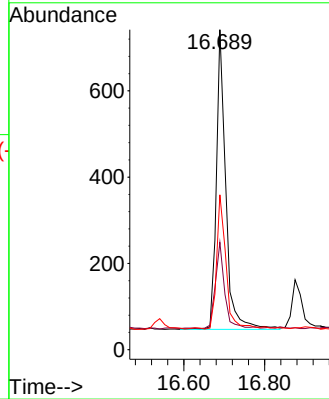
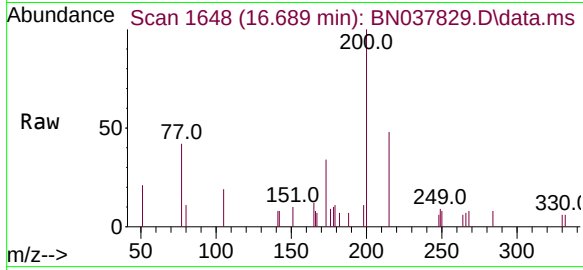




#23
Atrazine
Concen: 0.338 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.012 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

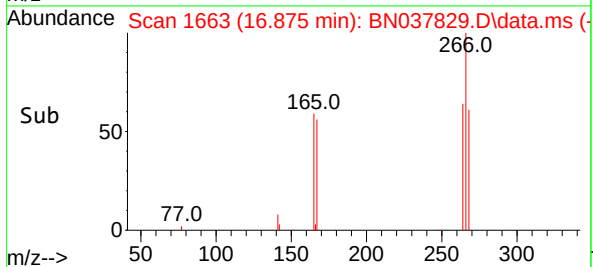
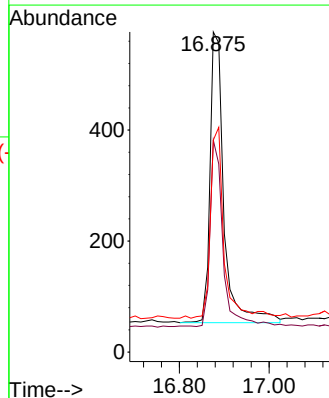
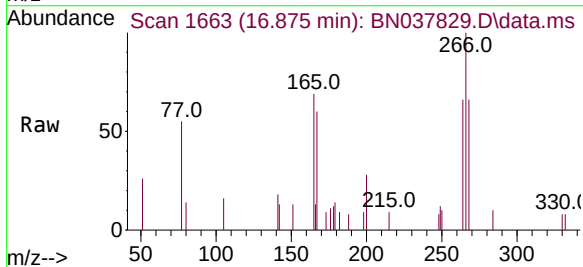
Instrument :
BNA_N
ClientSampleId :
PB169743BS

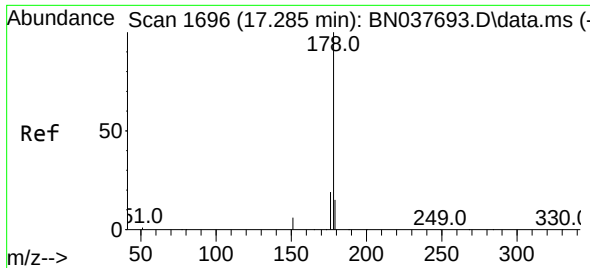
Tgt Ion:200 Resp: 1128
Ion Ratio Lower Upper
200 100
173 33.6 21.4 32.2#
215 48.4 39.2 58.8



#24
Pentachlorophenol
Concen: 0.646 ng
RT: 16.875 min Scan# 1663
Delta R.T. -0.012 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

Tgt Ion:266 Resp: 1133
Ion Ratio Lower Upper
266 100
264 59.0 51.6 77.4
268 61.0 53.2 79.8

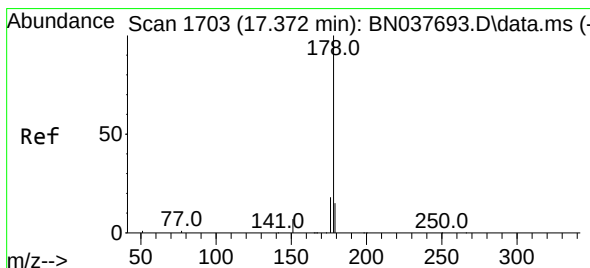
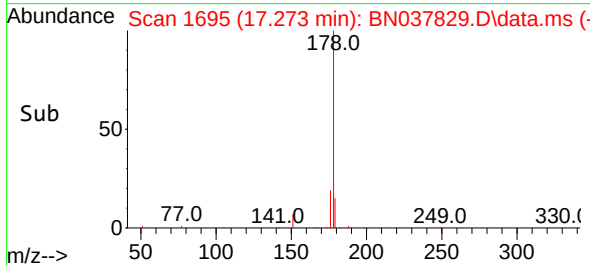
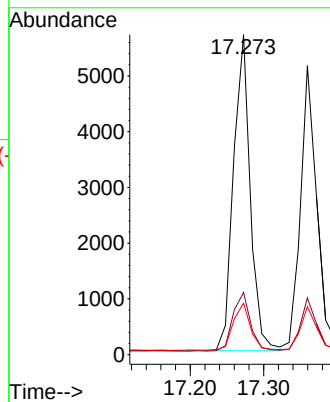
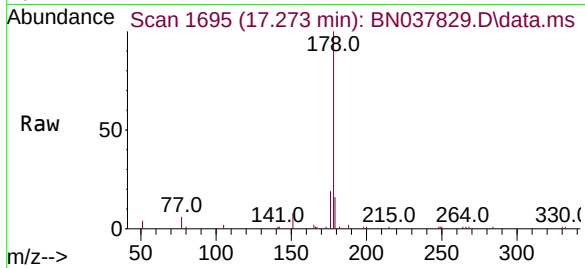




#25
Phenanthrene
Concen: 0.356 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.012 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

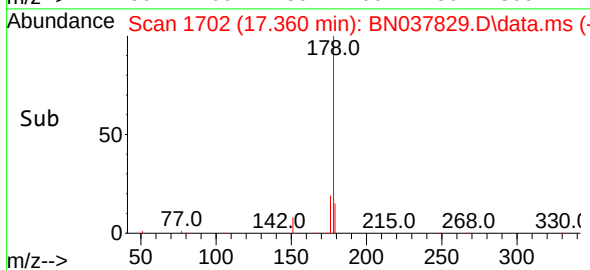
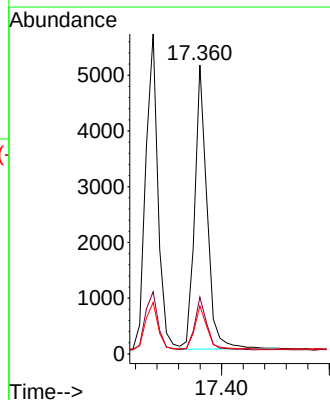
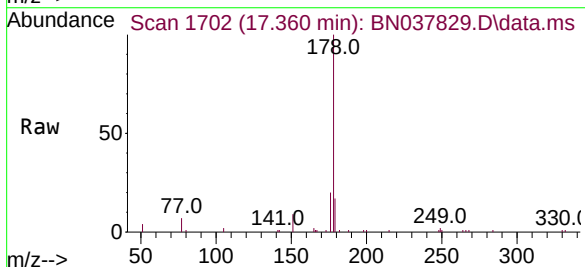
Instrument :
BNA_N
ClientSampleId :
PB169743BS

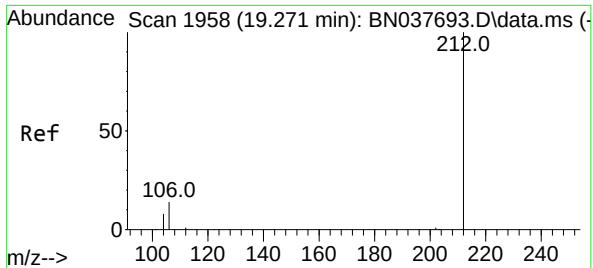
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.3	22.9
179	15.4	12.2	18.2



#26
Anthracene
Concen: 0.359 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.6	22.0
179	15.7	12.2	18.4

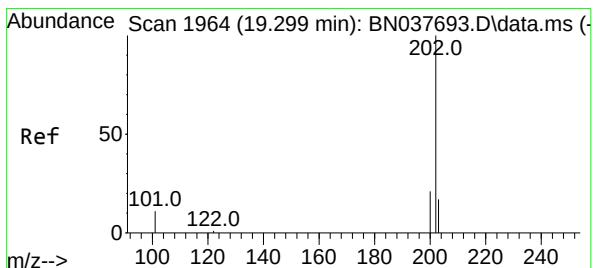
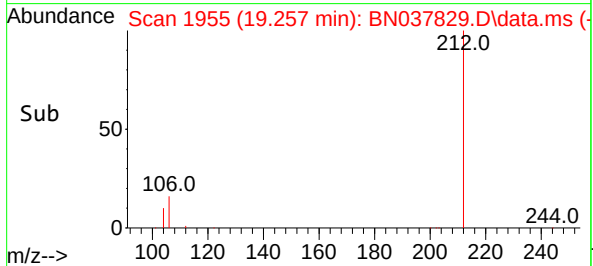
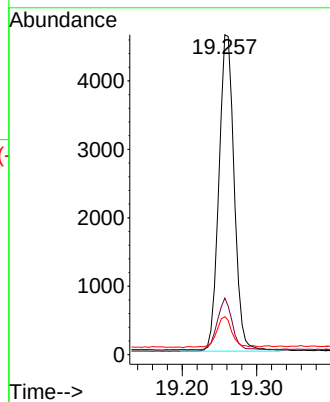
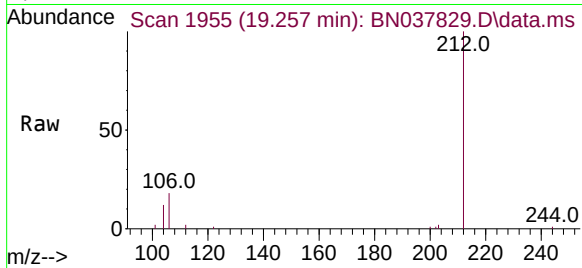




#27
Fluoranthene-d10
Concen: 0.327 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

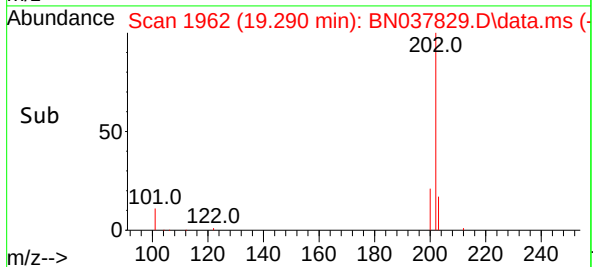
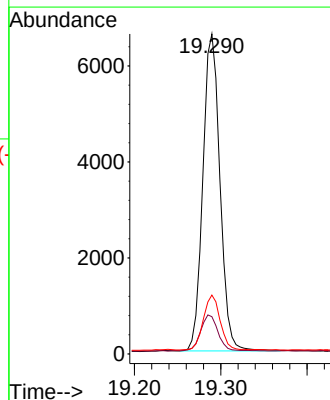
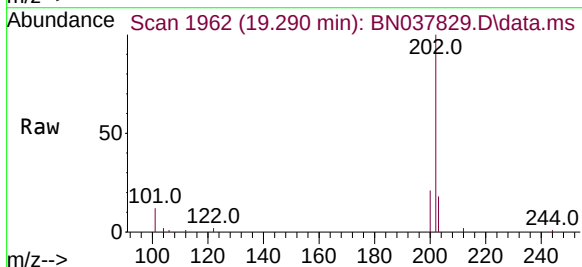
Instrument :
BNA_N
ClientSampleId :
PB169743BS

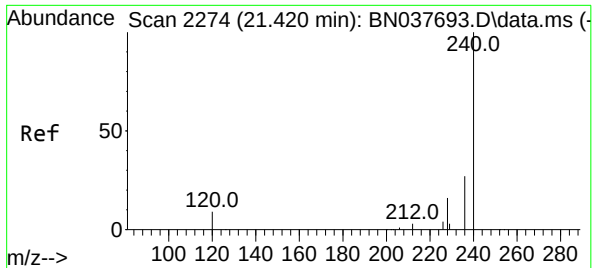
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.7	12.2	18.2
104	9.3	6.9	10.3



#28
Fluoranthene
Concen: 0.327 ng
RT: 19.290 min Scan# 1962
Delta R.T. -0.009 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.8	9.3	13.9
203	17.1	13.7	20.5

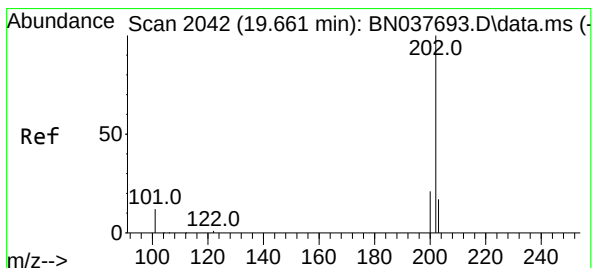
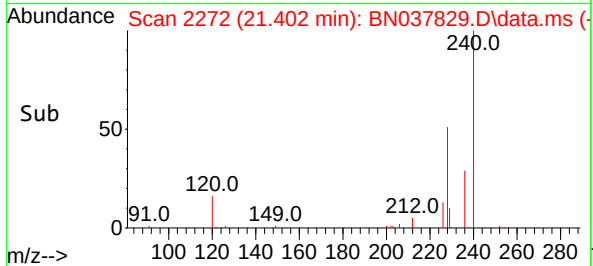
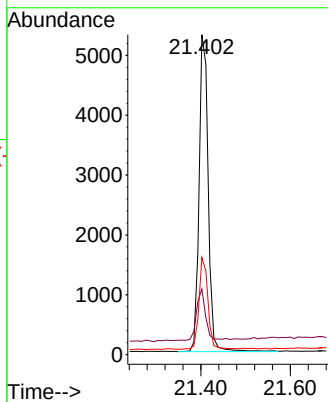
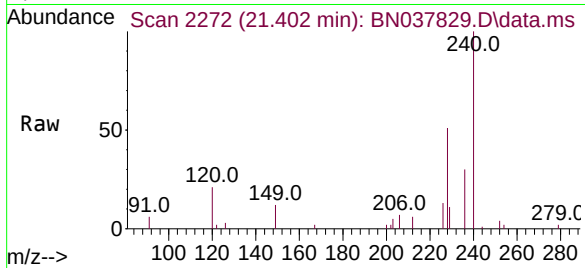




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

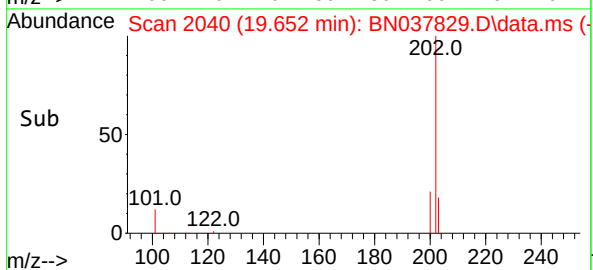
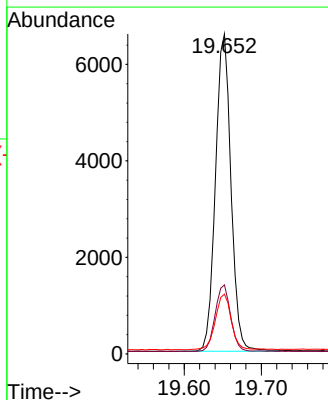
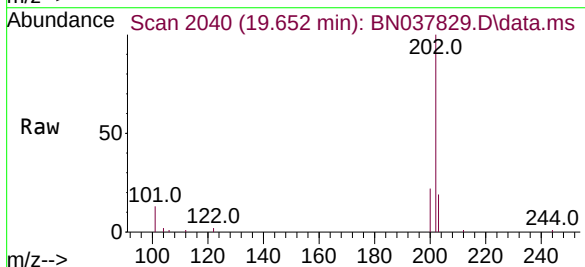
Instrument :
BNA_N
ClientSampleId :
PB169743BS

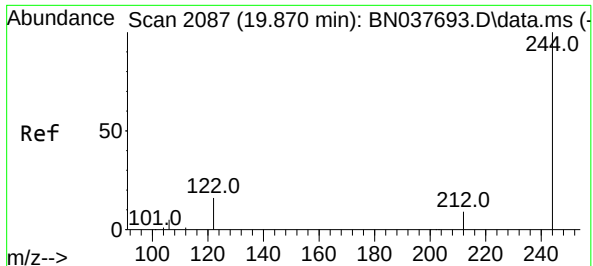
Tgt Ion:	240	Resp:	7504
Ion Ratio	Lower	Upper	
240	100		
120	20.5	9.2	13.8#
236	30.4	22.6	33.8



#30
Pyrene
Concen: 0.313 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

Tgt Ion:	202	Resp:	9186
Ion Ratio	Lower	Upper	
202	100		
200	21.2	16.8	25.2
203	17.9	14.3	21.5

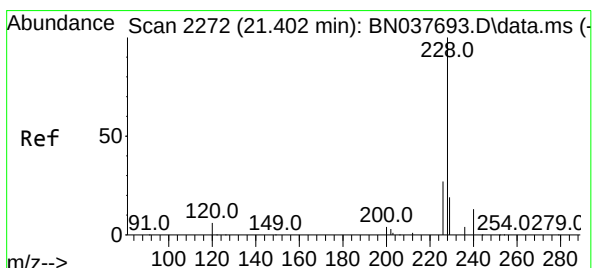
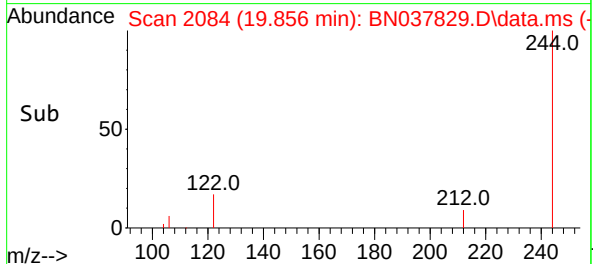
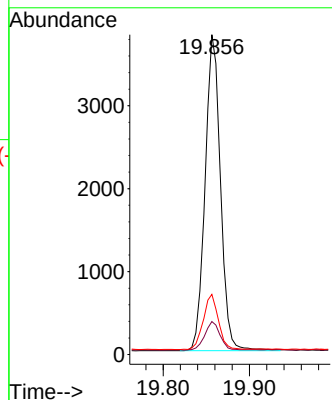
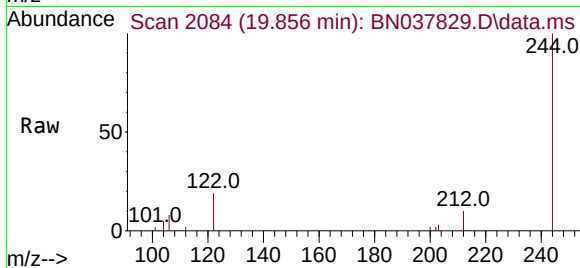




#31
Terphenyl-d14
Concen: 0.310 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

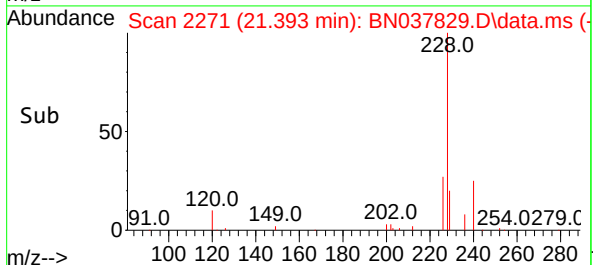
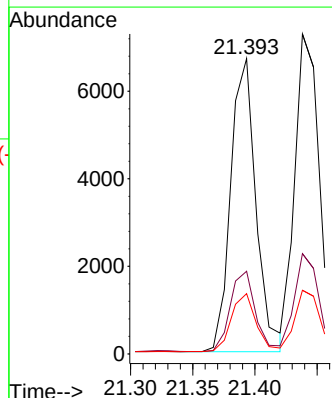
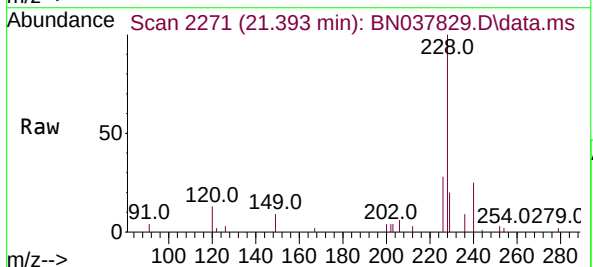
Instrument :
BNA_N
ClientSampleId :
PB169743BS

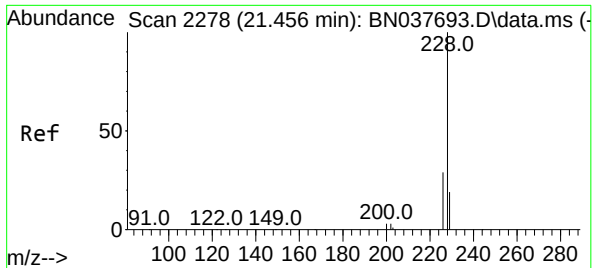
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.3	7.5	11.3
122	18.8	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.362 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.2	33.2
229	20.4	15.8	23.6

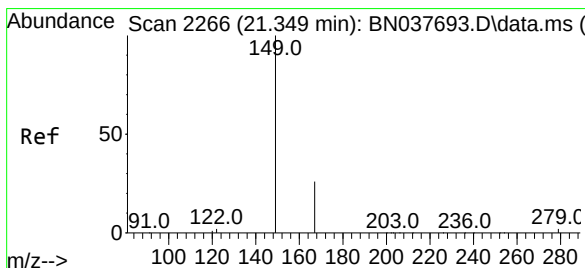
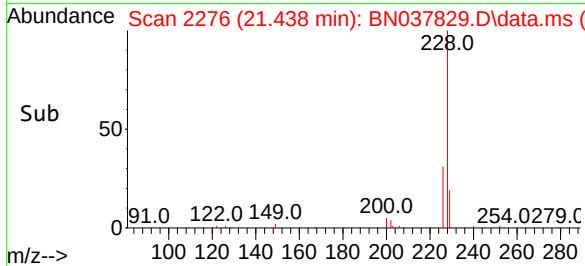
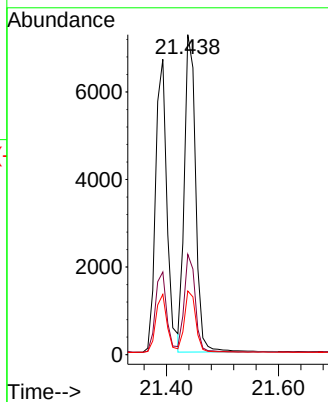
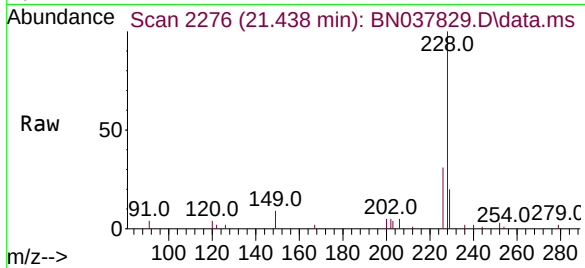




#33
Chrysene
Concen: 0.363 ng
RT: 21.438 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

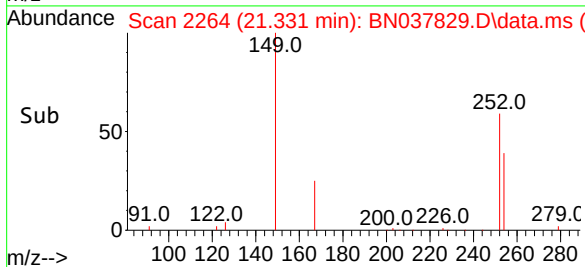
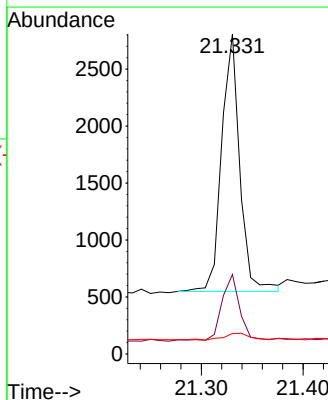
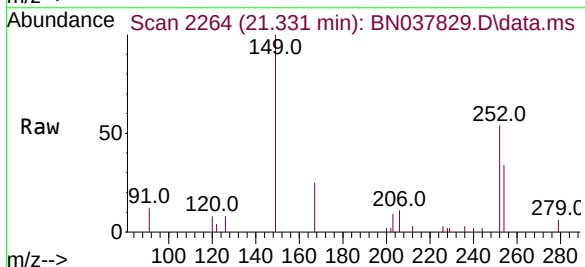
Instrument :
BNA_N
ClientSampleId :
PB169743BS

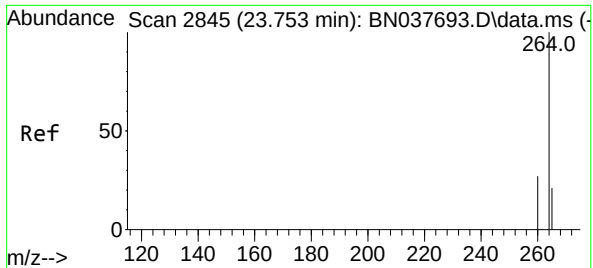
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	23.5	35.3
229	19.9	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.361 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

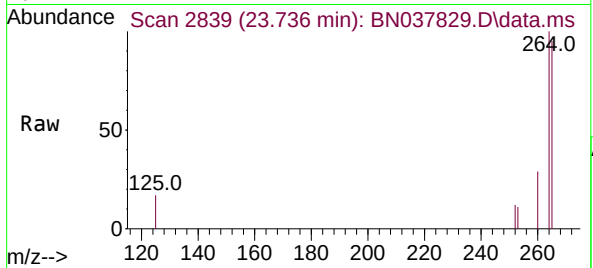
Tgt Ion	Ratio	Lower	Upper
149	100		
167	24.2	20.8	31.2
279	3.5	3.3	4.9



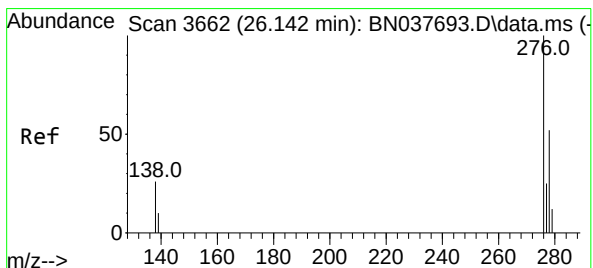
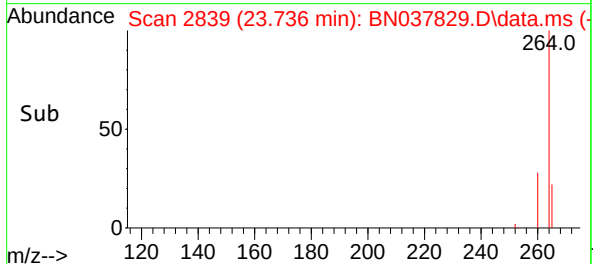
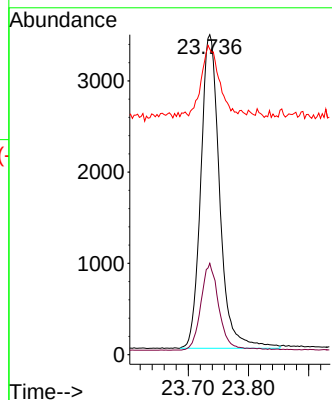


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 2839
Delta R.T. -0.018 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

Instrument :
BNA_N
ClientSampleId :
PB169743BS

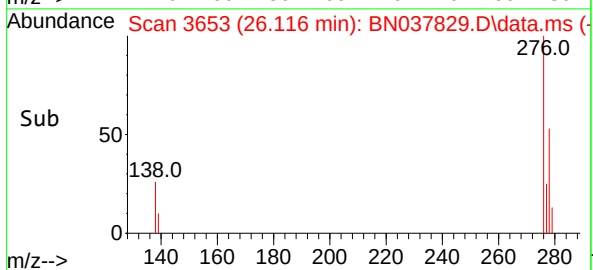
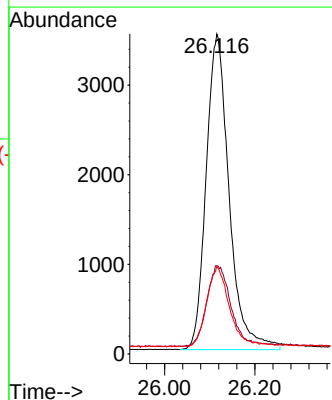
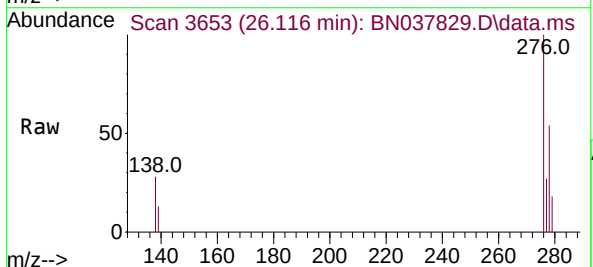


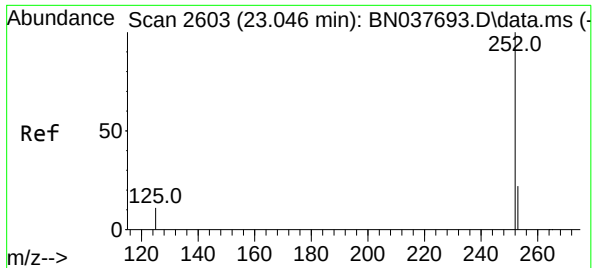
Tgt Ion:264 Resp: 7479
Ion Ratio Lower Upper
264 100
260 28.5 21.8 32.8
265 95.4 39.4 59.2#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.396 ng
RT: 26.116 min Scan# 3653
Delta R.T. -0.026 min
Lab File: BN037829.D
Acq: 20 Sep 2025 00:03

Tgt Ion:276 Resp: 12452
Ion Ratio Lower Upper
276 100
138 26.9 21.9 32.9
277 24.5 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.384 ng

RT: 23.028 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN037829.D

Acq: 20 Sep 2025 00:03

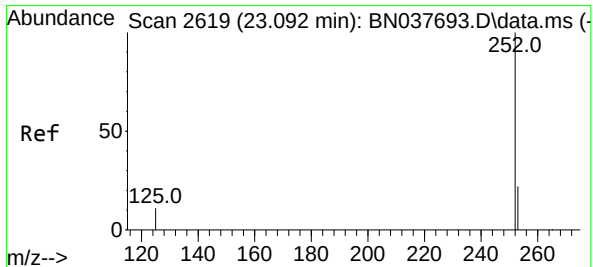
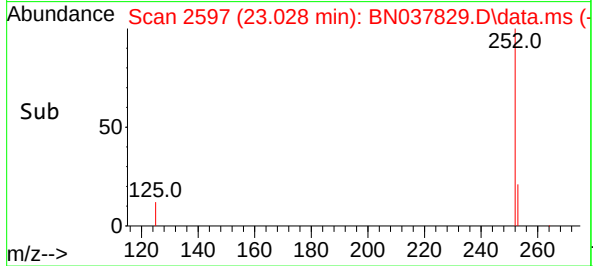
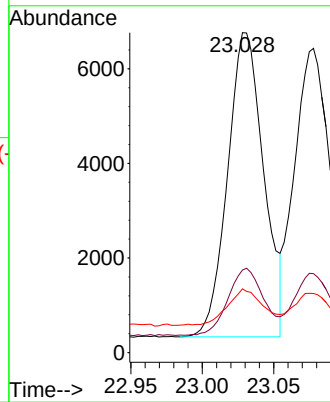
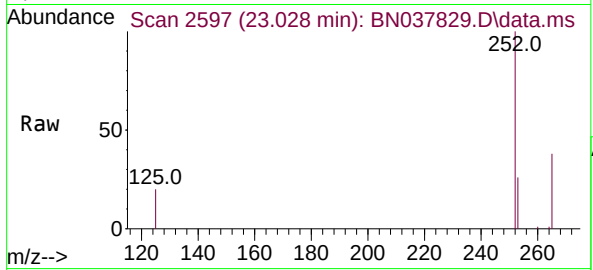
Instrument :

BNA_N

ClientSampleId :

PB169743BS

Tgt Ion:252	Resp:	11310
Ion Ratio	Lower	Upper
252	100	
253	25.8	19.4 29.2
125	19.9	11.2 16.8#



#38

Benzo(k)fluoranthene

Concen: 0.368 ng

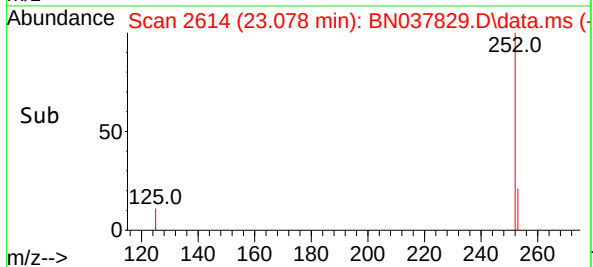
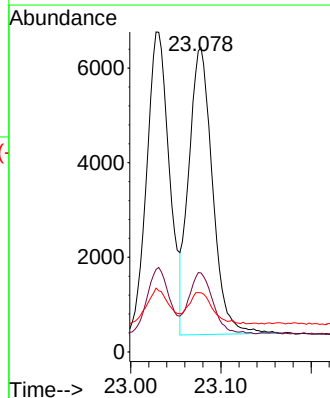
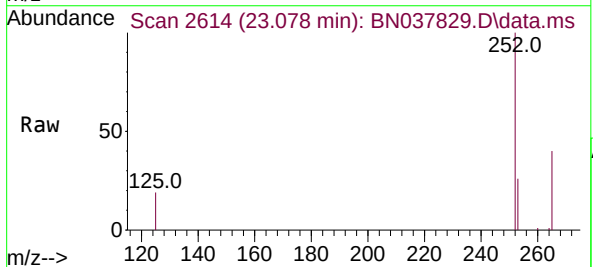
RT: 23.078 min Scan# 2614

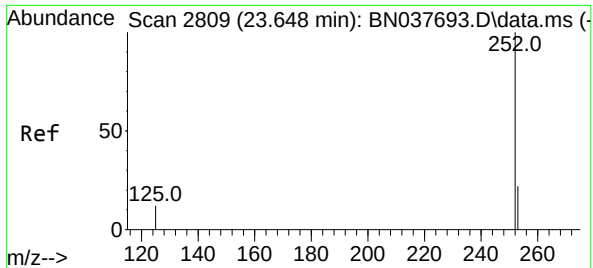
Delta R.T. -0.015 min

Lab File: BN037829.D

Acq: 20 Sep 2025 00:03

Tgt Ion:252	Resp:	11050
Ion Ratio	Lower	Upper
252	100	
253	26.0	19.4 29.0
125	19.4	11.6 17.4#





#39

Benzo(a)pyrene

Concen: 0.399 ng

RT: 23.633 min Scan# 2804

Delta R.T. -0.015 min

Lab File: BN037829.D

Acq: 20 Sep 2025 00:03

Instrument :

BNA_N

ClientSampleId :

PB169743BS

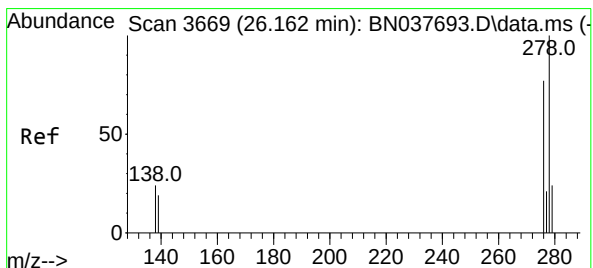
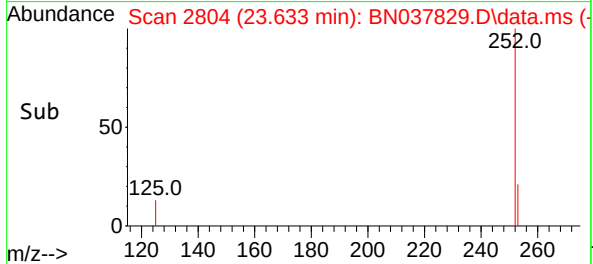
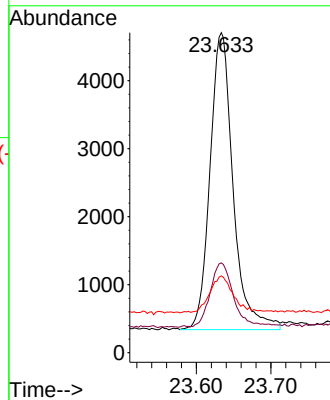
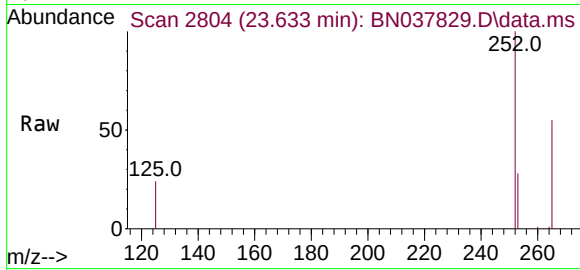
Tgt Ion:252 Resp: 9415

Ion Ratio Lower Upper

252 100

253 28.0 20.8 31.2

125 24.0 13.9 20.9#



#40

Dibenzo(a,h)anthracene

Concen: 0.378 ng

RT: 26.136 min Scan# 3660

Delta R.T. -0.026 min

Lab File: BN037829.D

Acq: 20 Sep 2025 00:03

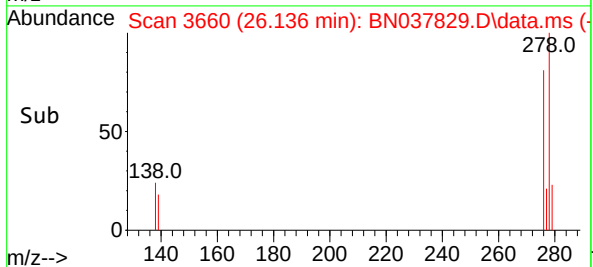
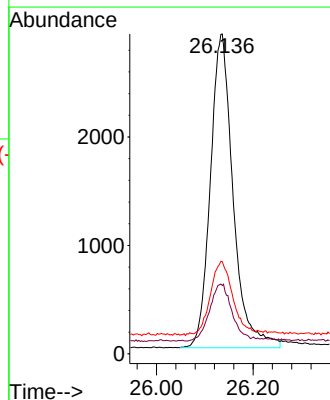
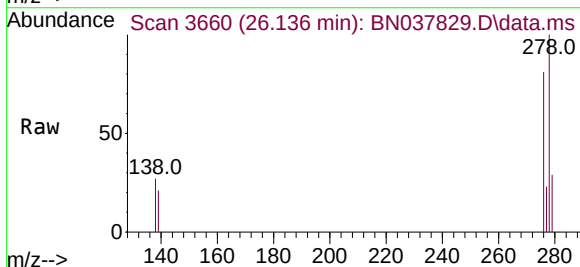
Tgt Ion:278 Resp: 9477

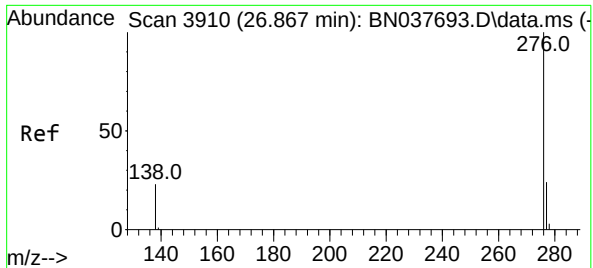
Ion Ratio Lower Upper

278 100

139 21.3 17.8 26.6

279 28.8 22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 0.387 ng

RT: 26.841 min Scan# 3910

Delta R.T. -0.026 min

Lab File: BN037829.D

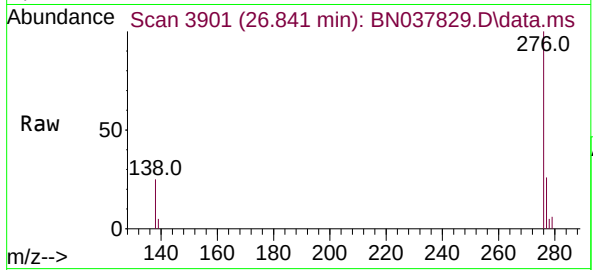
Acq: 20 Sep 2025 00:03

Instrument :

BNA_N

ClientSampleId :

PB169743BS



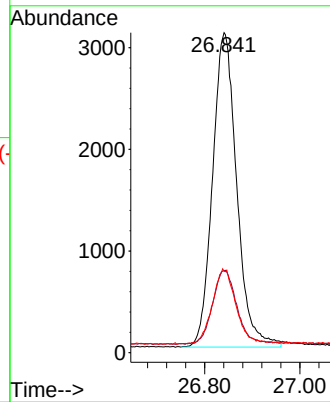
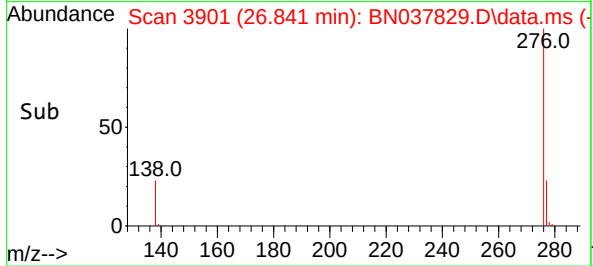
Tgt Ion:276 Resp: 10900

Ion Ratio Lower Upper

276 100

277 25.6 20.6 31.0

138 25.4 20.2 30.2



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/16/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/17/25
Client Sample ID:	TT119S1-20250916MS	SDG No.:	Q3127
Lab Sample ID:	Q3127-14MS	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
BN037809.D	1	09/18/25 11:35	09/19/25 11:50	PB169743

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.41		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		78%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		96%	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		88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		101%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5850	7.832				
1146-65-2	Naphthalene-d8	15600	10.637				
15067-26-2	Acenaphthene-d10	7050	14.483				
1517-22-2	Phenanthrene-d10	12900	17.223				
1719-03-5	Chrysene-d12	12000	21.411				
1520-96-3	Perylene-d12	11500	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 : BN037809.D
 Acq On : 19 Sep 2025 11:50
 Operator : RC/JU
 Sample : Q3127-14MS
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT119S1-20250916MS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/22/2025
 Supervised By :mohammad ahmed 09/23/2025

Quant Time: Sep 19 12:26:37 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	7.832	152	5852	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	15625	0.400	ng	#-0.01
13) Acenaphthene-d10	14.483	164	7051	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	12911	0.400	ng	-0.01
29) Chrysene-d12	21.411	240	12021	0.400	ng	0.00
35) Perylene-d12	23.741	264	11515	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.391	112	1931	0.144	ng	0.00
5) Phenol-d6	6.980	99	1477	0.085	ng	0.00
8) Nitrobenzene-d5	8.982	82	4025	0.352	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	6475m	0.313	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	835	0.454	ng	-0.01
15) 2-Fluorobiphenyl	13.104	172	10370	0.352	ng	-0.01
27) Fluoranthene-d10	19.261	212	12452	0.384	ng	0.00
31) Terphenyl-d14	19.861	244	9852	0.404	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	2519	0.413	ng	# 88
3) n-Nitrosodimethylamine	3.607	42	1030	0.129	ng	# 86
6) bis(2-Chloroethyl)ether	7.247	93	5324	0.342	ng	100
9) Naphthalene	10.679	128	14111	0.330	ng	100
10) Hexachlorobutadiene	10.989	225	2383	0.308	ng	# 100
12) 2-Methylnaphthalene	12.303	142	7893	0.299	ng	100
16) Acenaphthylene	14.195	152	11822	0.366	ng	99
17) Acenaphthene	14.548	154	7550	0.345	ng	99
18) Fluorene	15.522	166	10236	0.387	ng	100
20) 4,6-Dinitro-2-methylph...	15.597	198	478	0.400	ng	94
21) 4-Bromophenyl-phenylether	16.428	248	2963	0.352	ng	99
22) Hexachlorobenzene	16.540	284	3549	0.366	ng	98
23) Atrazine	16.689	200	2033	0.380	ng	95
24) Pentachlorophenol	16.875	266	2175	0.774	ng	96
25) Phenanthrene	17.272	178	15526	0.382	ng	100
26) Anthracene	17.359	178	13174	0.366	ng	99
28) Fluoranthene	19.289	202	17140	0.384	ng	# 95
30) Pyrene	19.652	202	17451	0.371	ng	99
32) Benzo(a)anthracene	21.393	228	16723	0.399	ng	100
33) Chrysene	21.447	228	17844	0.397	ng	99
34) Bis(2-ethylhexyl)phtha...	21.330	149	6260	0.504	ng	97
36) Indeno(1,2,3-cd)pyrene	26.121	276	18885	0.390	ng	99
37) Benzo(b)fluoranthene	23.037	252	18300	0.404	ng	97
38) Benzo(k)fluoranthene	23.080	252	18144	0.392	ng	98
39) Benzo(a)pyrene	23.636	252	14555	0.401	ng	98
40) Dibenzo(a,h)anthracene	26.141	278	15061	0.390	ng	98
41) Benzo(g,h,i)perylene	26.846	276	14961	0.345	ng	97

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

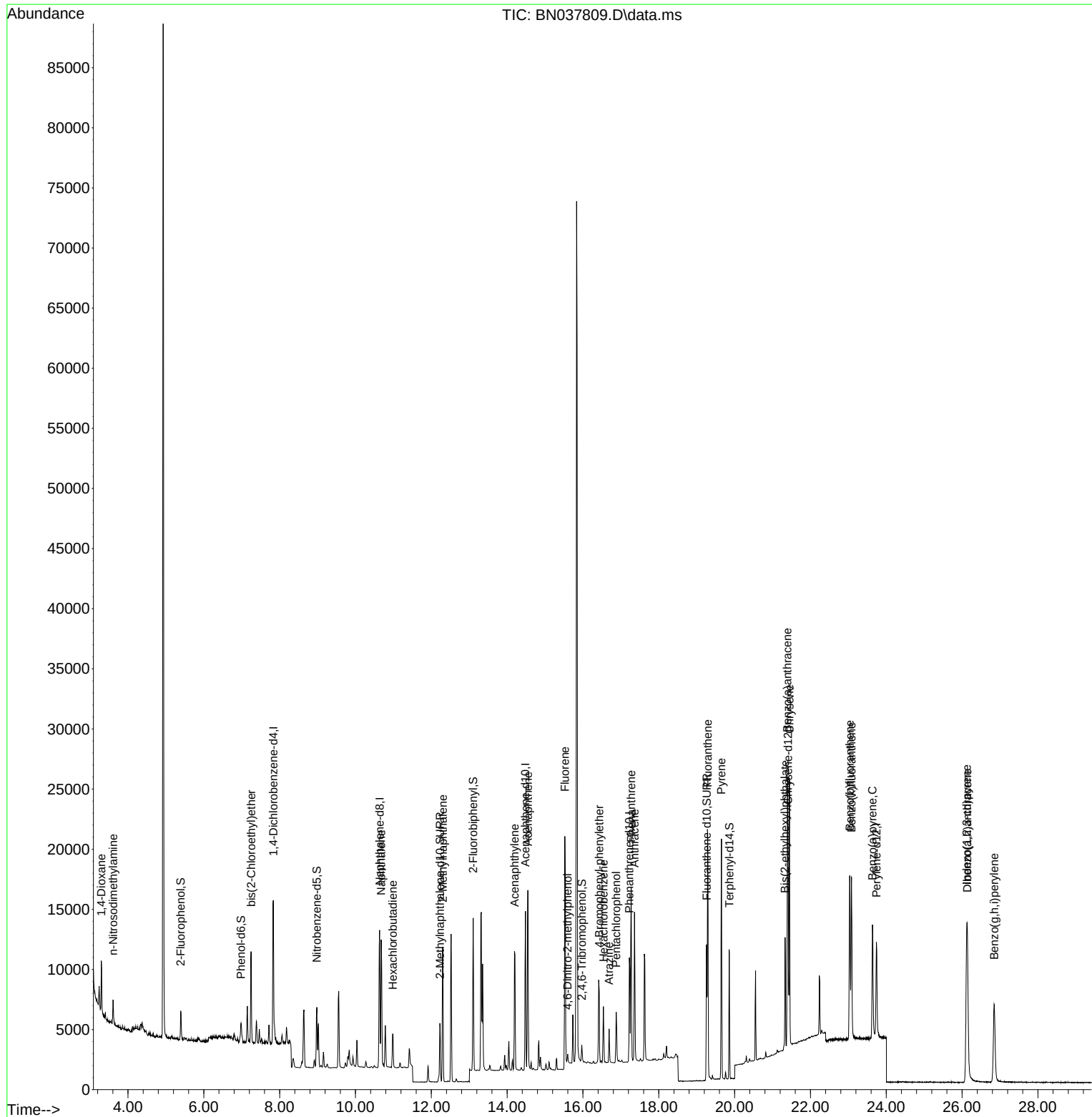
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Data File : BN037809.D
Acq On : 19 Sep 2025 11:50
Operator : RC/JU
Sample : Q3127-14MS
Misc :
ALS Vial : 34 Sample Multiplier: 1

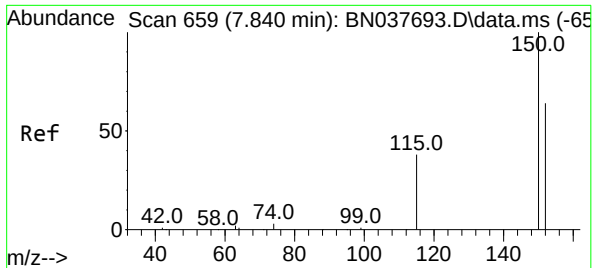
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS

Manual Integrations
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Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025

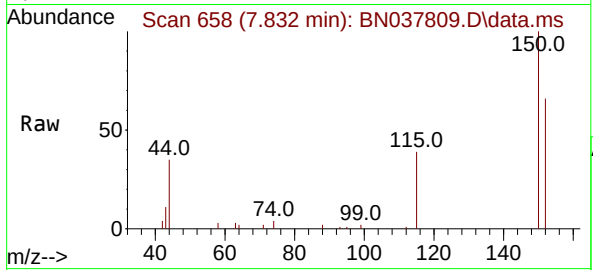
Quant Time: Sep 19 12:26:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.832 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

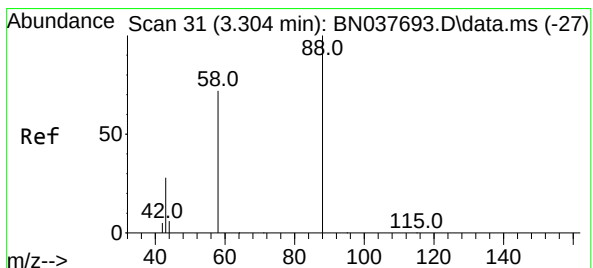
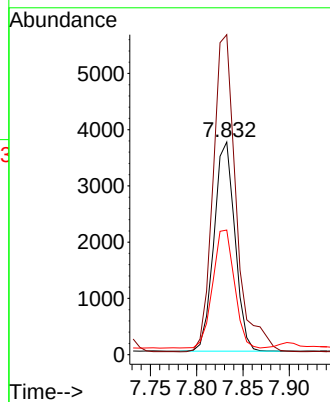
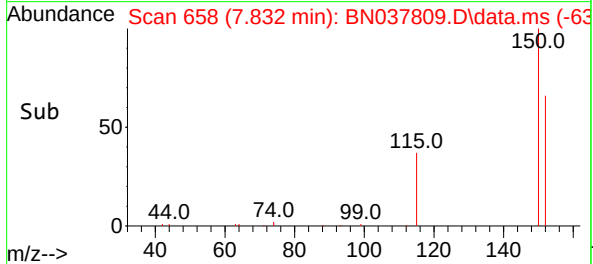
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS



Tgt Ion: 152 Resp: 5852
Ion Ratio Lower Upper
152 100
150 150.5 124.5 186.7
115 58.7 49.2 73.8

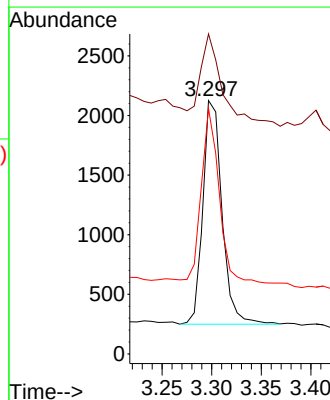
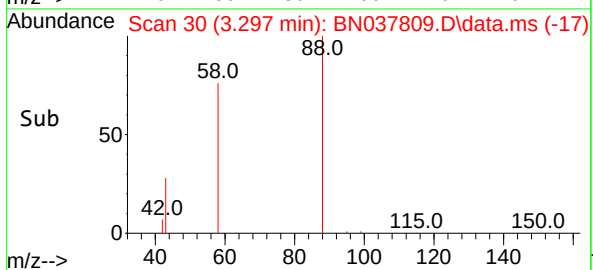
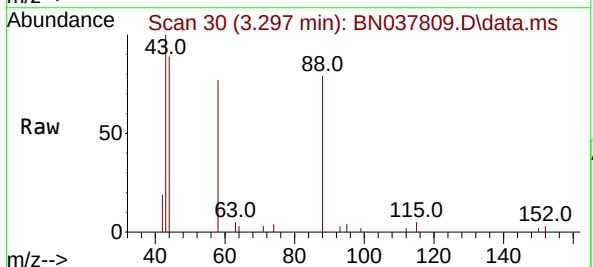
Manual Integrations
APPROVED

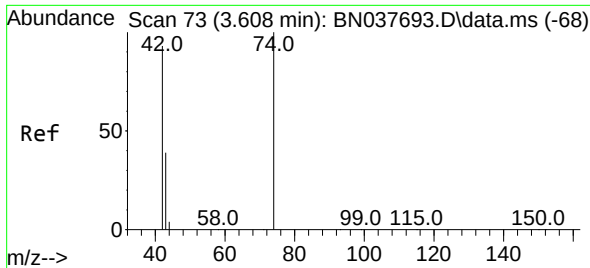
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#2
1,4-Dioxane
Concen: 0.413 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.008 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

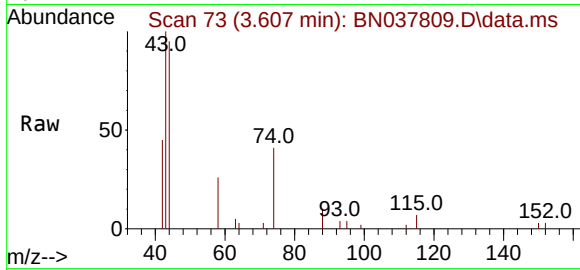
Tgt Ion: 88 Resp: 2519
Ion Ratio Lower Upper
88 100
43 48.7 26.8 40.2#
58 72.2 61.9 92.9





#3
n-Nitrosodimethylamine
Concen: 0.129 ng
RT: 3.607 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

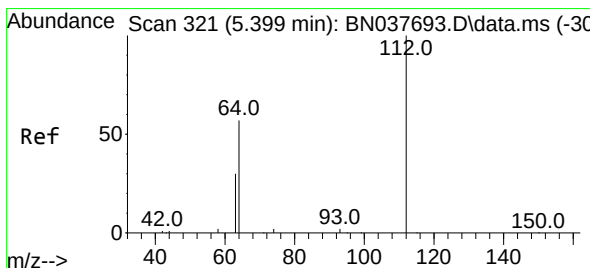
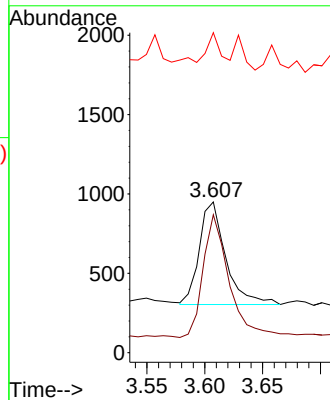
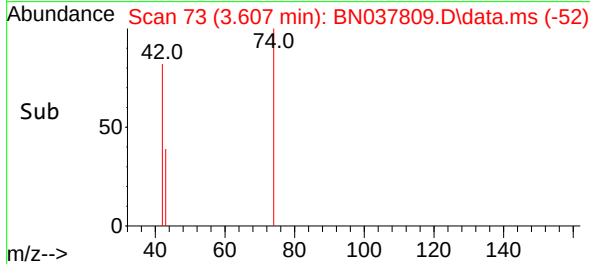
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS



Tgt Ion: 42 Resp: 1030
Ion Ratio Lower Upper
42 100
74 122.8 86.0 129.0
44 13.6 8.4 12.6

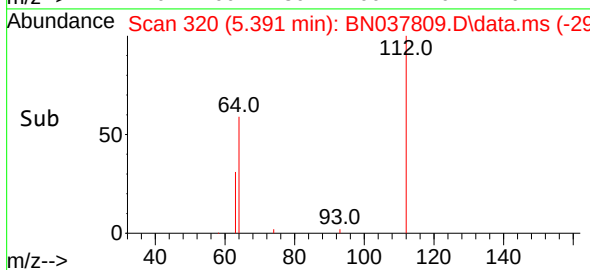
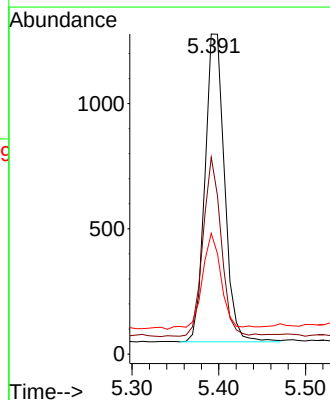
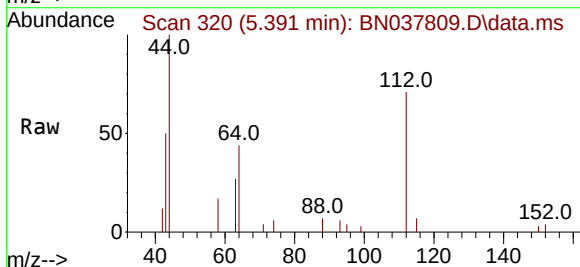
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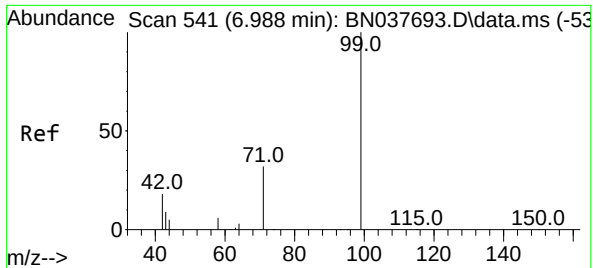
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#4
2-Fluorophenol
Concen: 0.144 ng
RT: 5.391 min Scan# 320
Delta R.T. -0.008 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

Tgt Ion:112 Resp: 1931
Ion Ratio Lower Upper
112 100
64 54.7 44.9 67.3
63 30.0 24.7 37.1





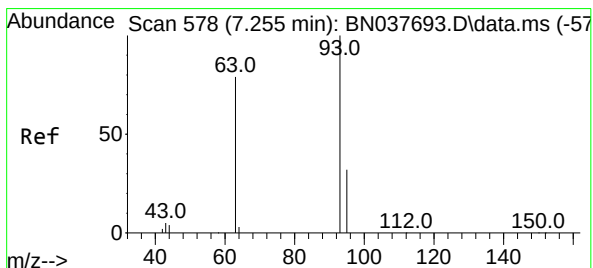
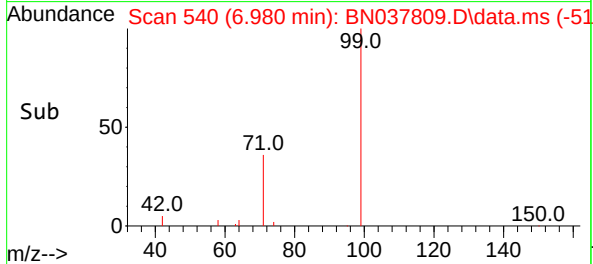
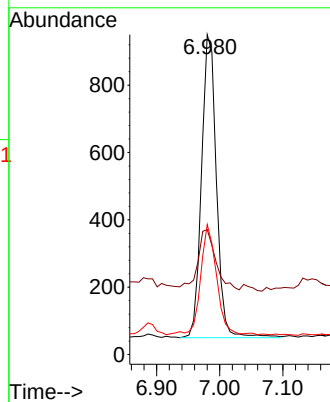
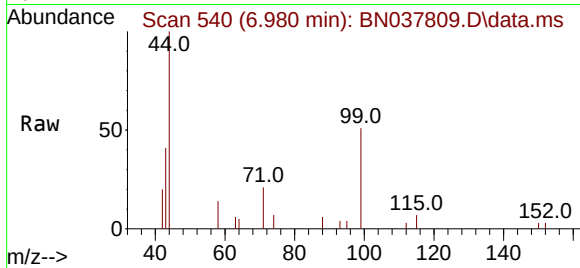
#5
Phenol-d6
Concen: 0.085 ng
RT: 6.980 min Scan# 541
Delta R.T. -0.008 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS

Tgt Ion: 99 Resp: 147
Ion Ratio Lower Upper
99 100
42 23.6 16.6 24.8
71 38.5 26.7 40.1

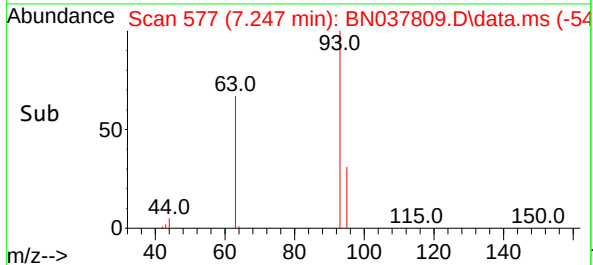
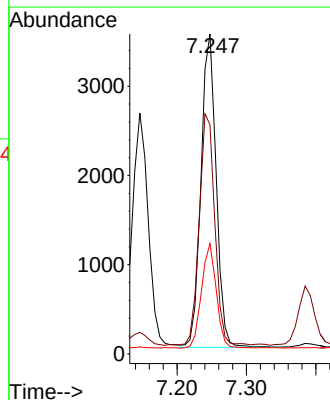
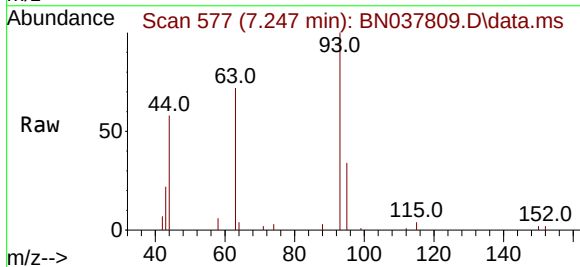
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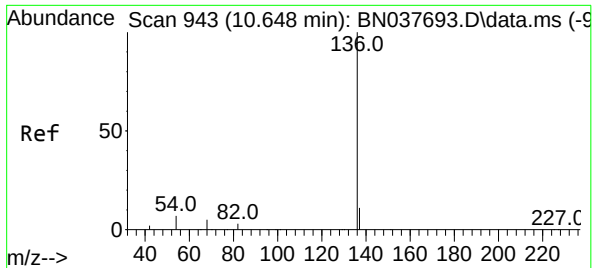
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.342 ng
RT: 7.247 min Scan# 577
Delta R.T. -0.008 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

Tgt Ion: 93 Resp: 5324
Ion Ratio Lower Upper
93 100
63 75.8 60.6 90.8
95 32.5 26.0 39.0





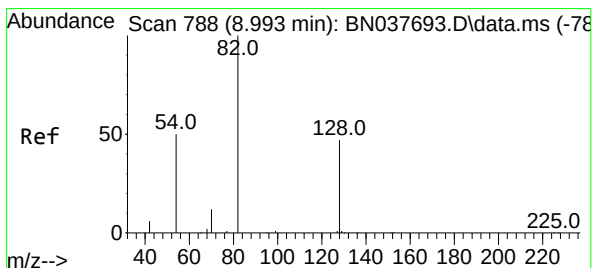
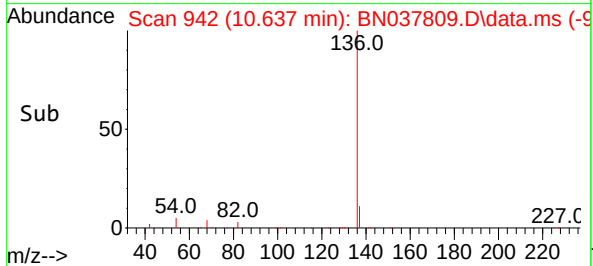
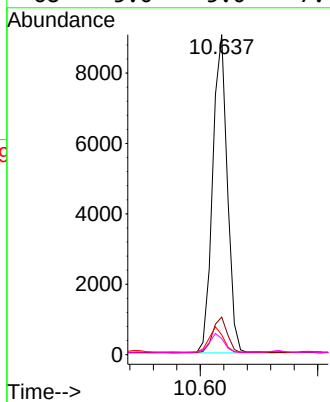
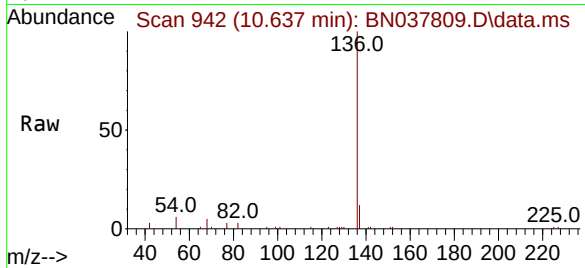
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.1	13.7
54	6.2	6.3	9.5
68	5.0	5.0	7.4

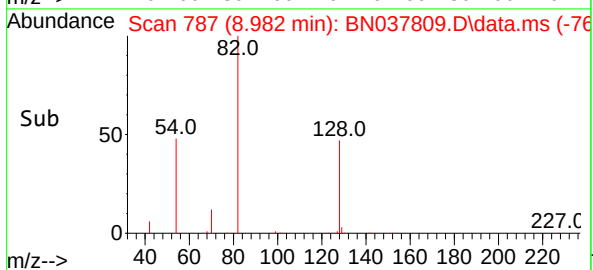
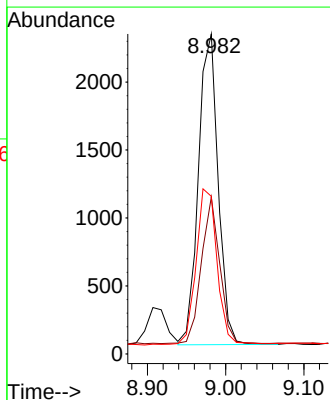
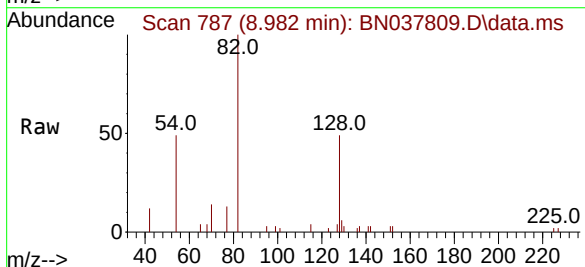
Manual Integrations
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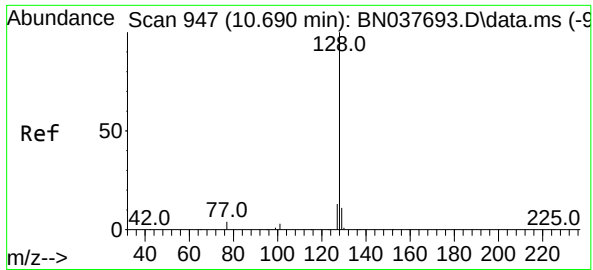
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#8
Nitrobenzene-d5
Concen: 0.352 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

Tgt Ion	Ratio	Lower	Upper
82	100		
128	49.0	38.3	57.5
54	49.2	41.4	62.2





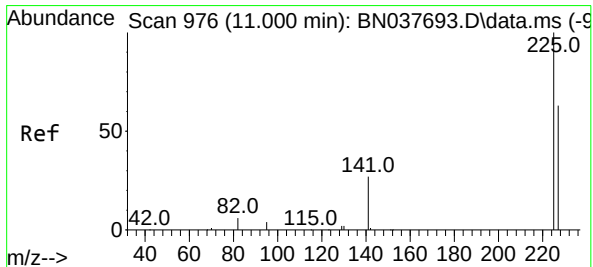
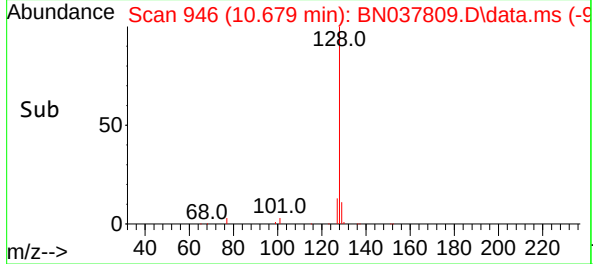
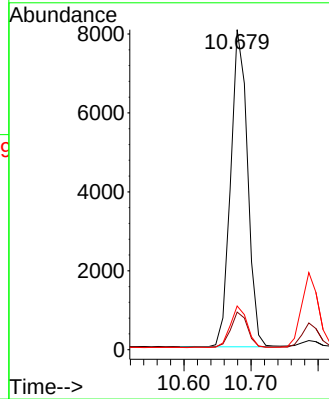
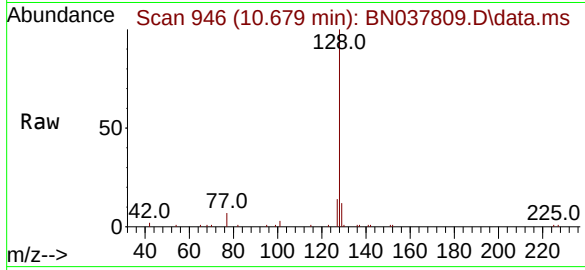
#9
Naphthalene
Concen: 0.330 ng
RT: 10.679 min Scan# 946
Delta R.T. -0.011 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS

Tgt Ion:128 Resp: 1411
Ion Ratio Lower Upper
128 100
129 11.7 9.1 13.7
127 13.6 10.9 16.3

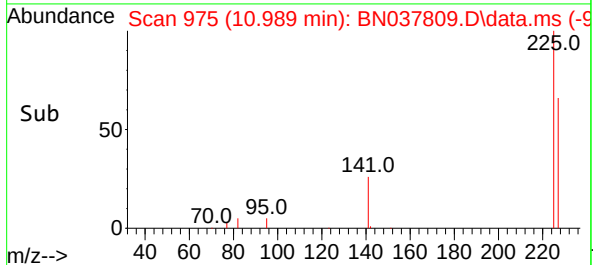
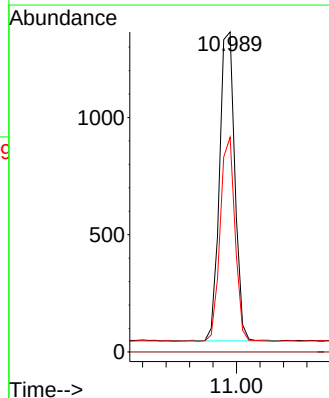
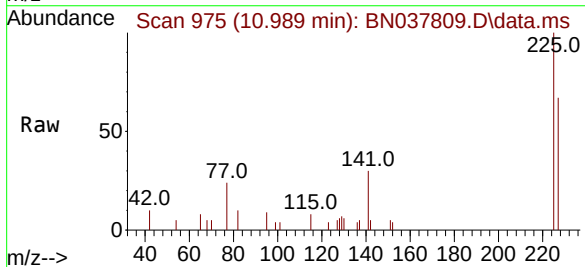
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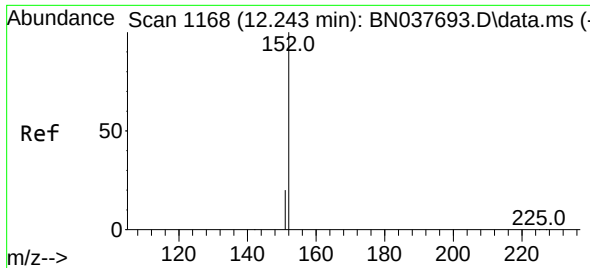
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#10
Hexachlorobutadiene
Concen: 0.308 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

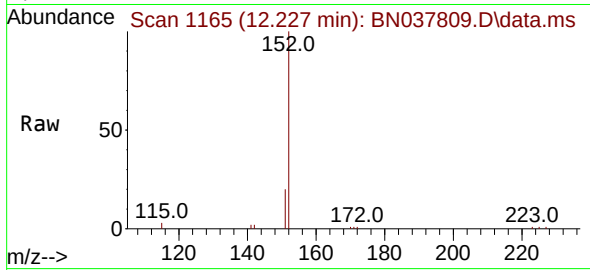
Tgt Ion:225 Resp: 2383
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 50.9 76.3





#11
2-Methylnaphthalene-d10
Concen: 0.313 ng m
RT: 12.227 min Scan# 1165
Delta R.T. -0.016 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

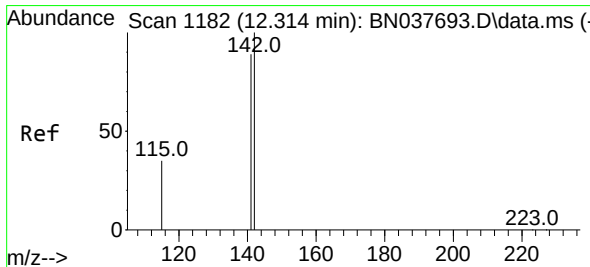
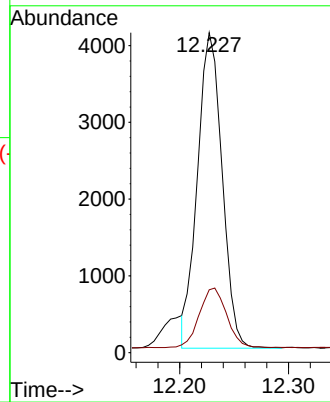
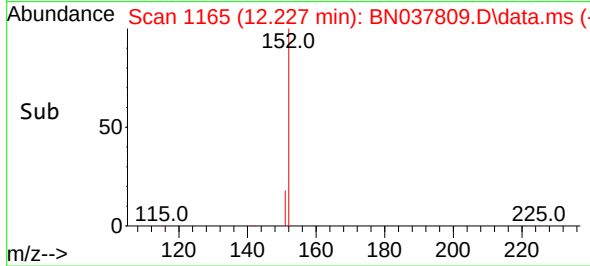
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS



Tgt Ion:152 Resp: 6475
Ion Ratio Lower Upper
152 100
151 20.9 17.0 25.6

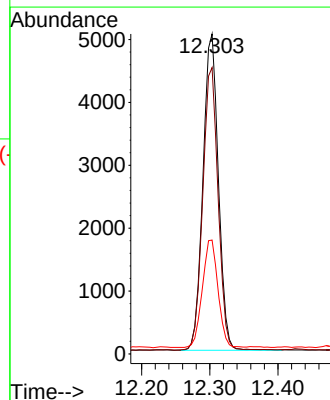
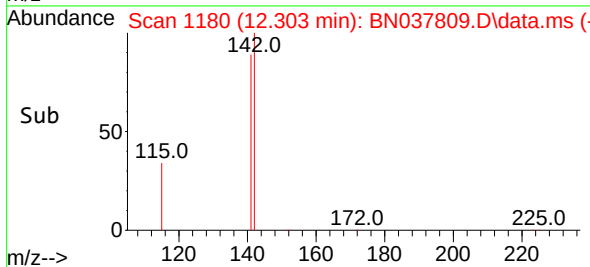
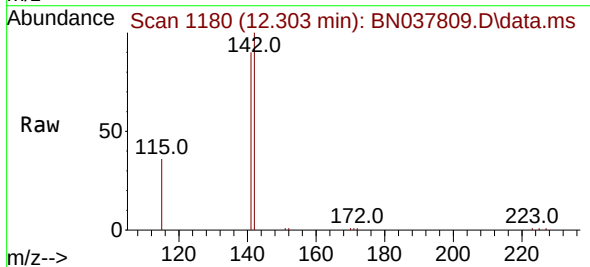
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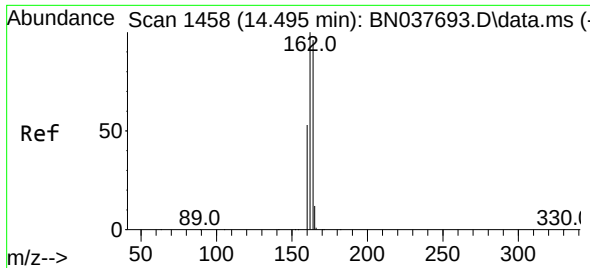
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#12
2-Methylnaphthalene
Concen: 0.299 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.011 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

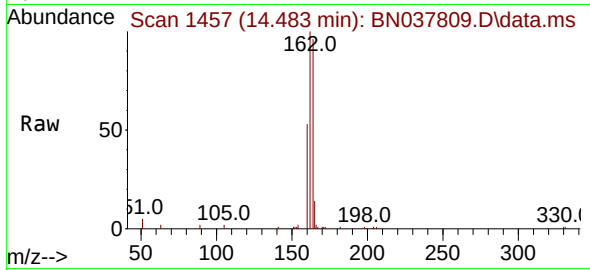
Tgt Ion:142 Resp: 7893
Ion Ratio Lower Upper
142 100
141 89.5 71.6 107.4
115 35.6 28.6 43.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.483 min Scan# 1458
Delta R.T. -0.011 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

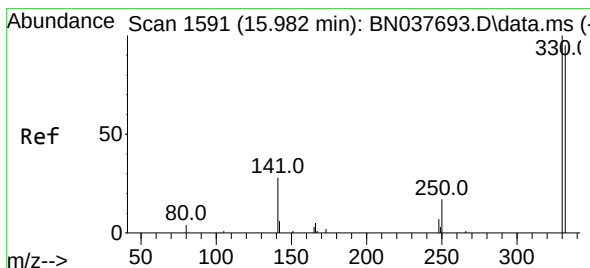
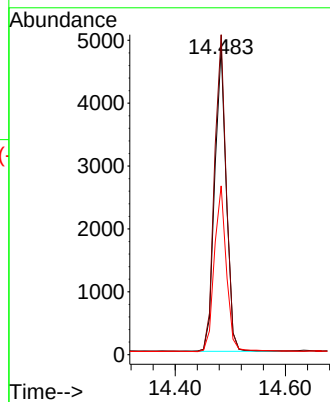
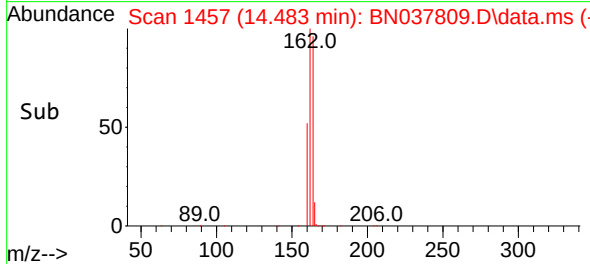
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS



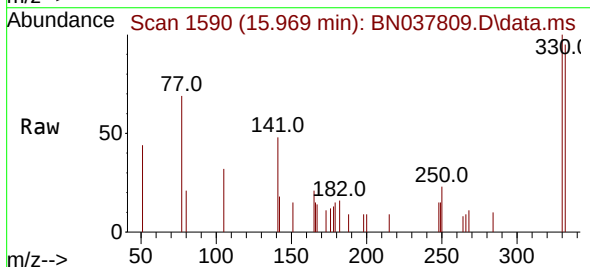
Tgt Ion:164 Resp: 705
Ion Ratio Lower Upper
164 100
162 104.2 83.1 124.7
160 55.0 44.3 66.5

Manual Integrations
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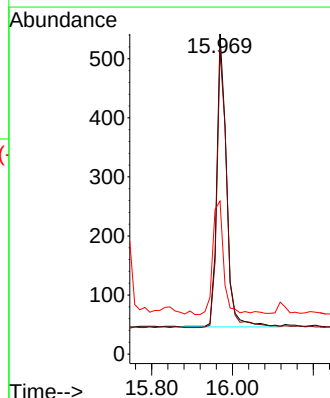
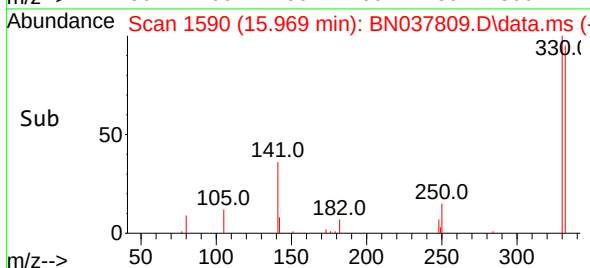
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025

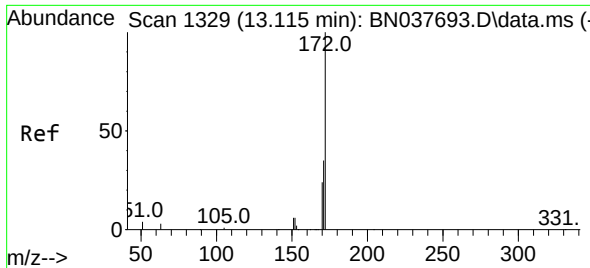


#14
2,4,6-Tribromophenol
Concen: 0.454 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50



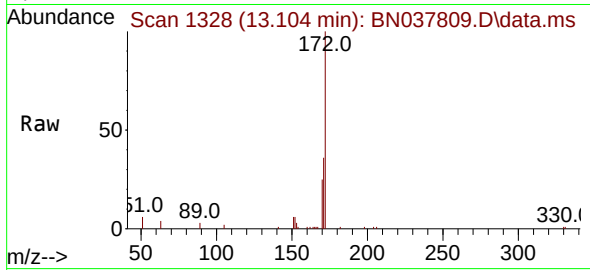
Tgt Ion:330 Resp: 835
Ion Ratio Lower Upper
330 100
332 95.9 75.3 112.9
141 43.2 35.0 52.4





#15
2-Fluorobiphenyl
Concen: 0.352 ng
RT: 13.104 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

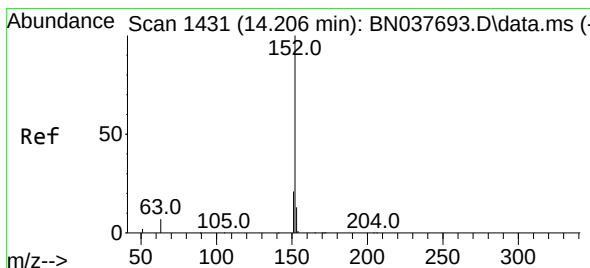
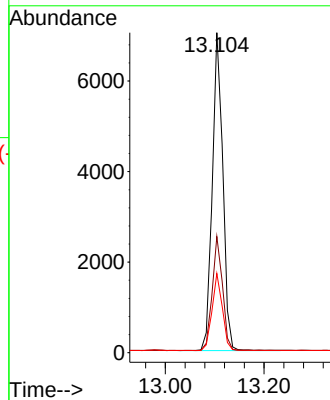
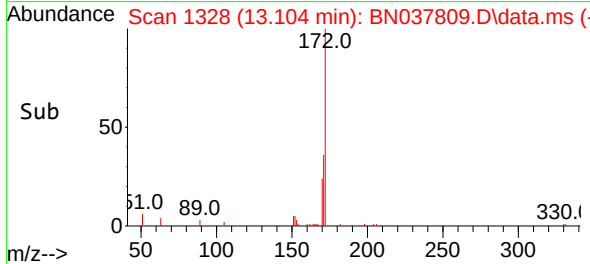
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS



Tgt Ion:172 Resp: 10370
Ion Ratio Lower Upper
172 100
171 36.3 28.6 43.0
170 24.8 19.8 29.8

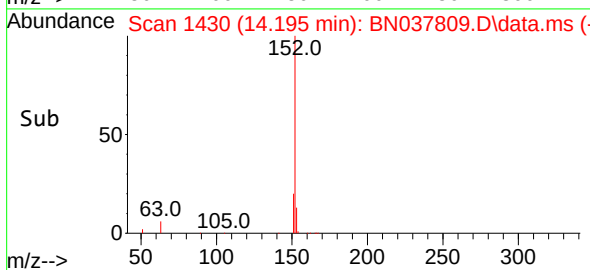
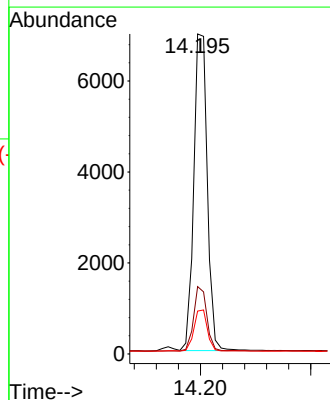
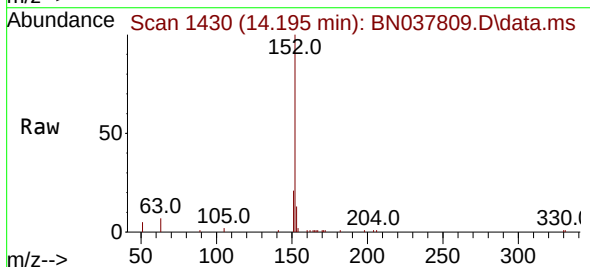
Manual Integrations
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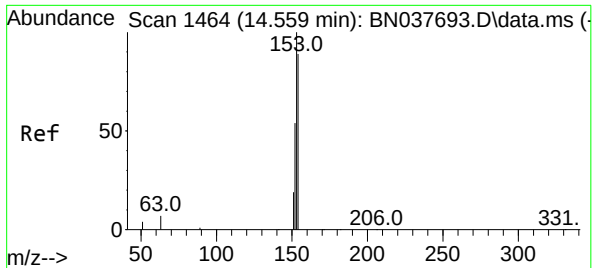
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#16
Acenaphthylene
Concen: 0.366 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.011 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

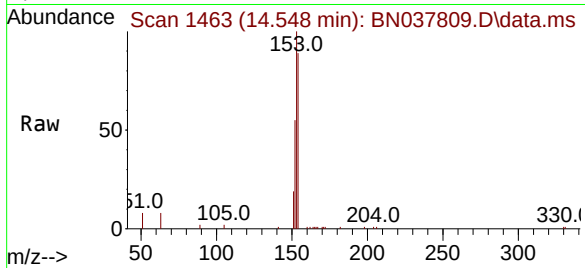
Tgt Ion:152 Resp: 11822
Ion Ratio Lower Upper
152 100
151 19.8 16.2 24.2
153 13.4 10.4 15.6





#17
Acenaphthene
Concen: 0.345 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

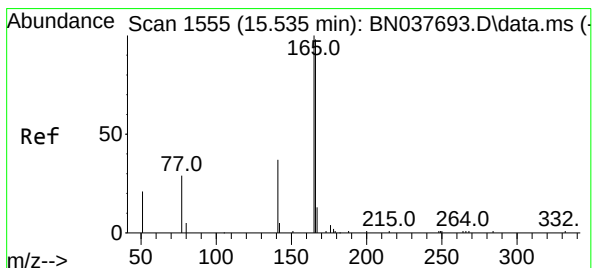
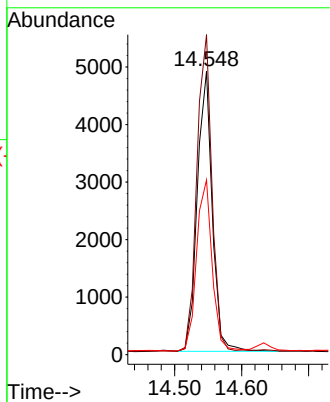
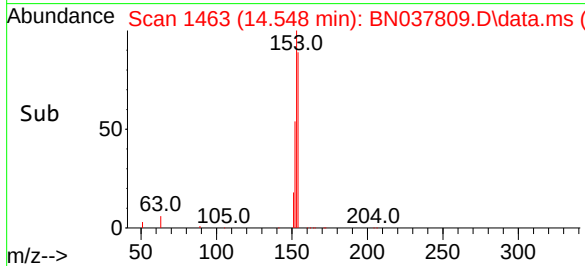
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS



Tgt Ion:154 Resp: 7550
Ion Ratio Lower Upper
154 100
153 113.6 89.8 134.8
152 63.1 50.2 75.2

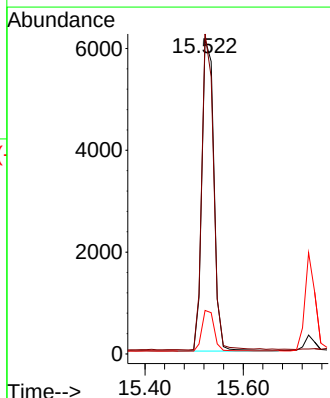
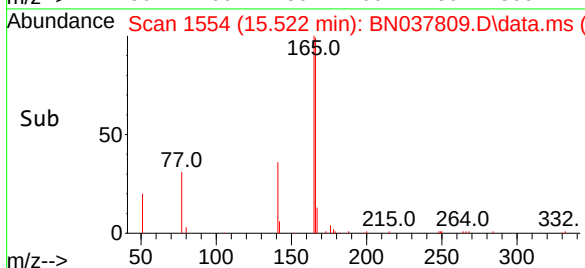
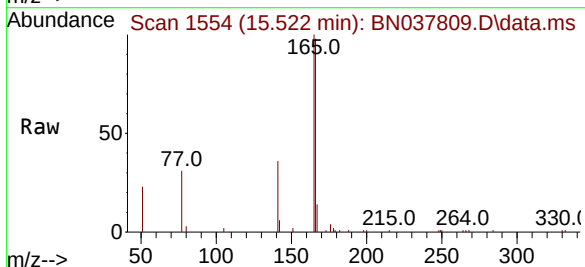
Manual Integrations
APPROVED

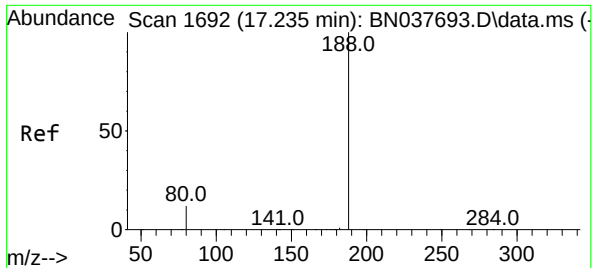
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#18
Fluorene
Concen: 0.387 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.013 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

Tgt Ion:166 Resp: 10236
Ion Ratio Lower Upper
166 100
165 99.9 79.6 119.4
167 13.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1

Delta R.T. -0.013 min

Lab File: BN037809.D

Acq: 19 Sep 2025 11:50

Instrument :

BNA_N

ClientSampleId :

TT119S1-20250916MS

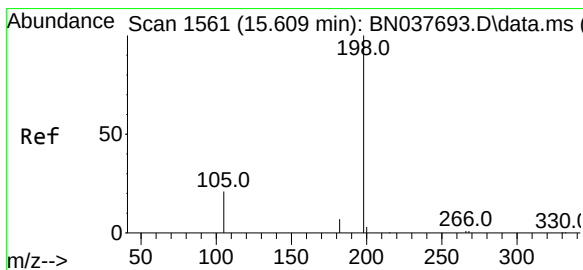
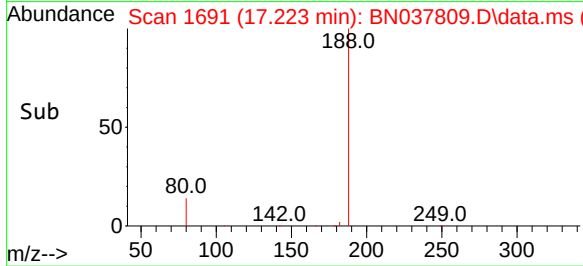
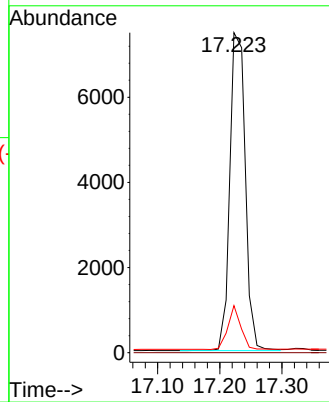
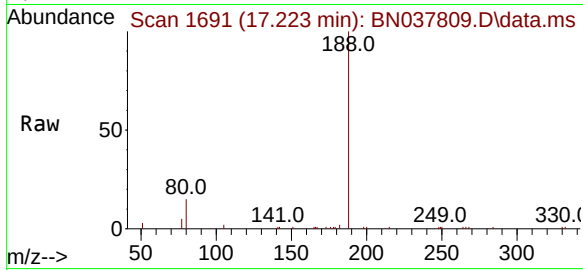
Tgt Ion:	188	Resp:	1291
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	14.7	10.6	15.8

Manual Integrations

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Reviewed By :Rahul Chavli 09/22/2025

Supervised By :mohammad ahmed 09/23/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.400 ng

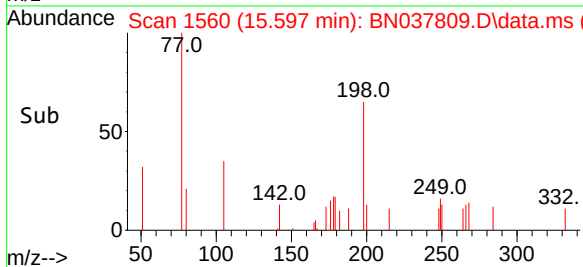
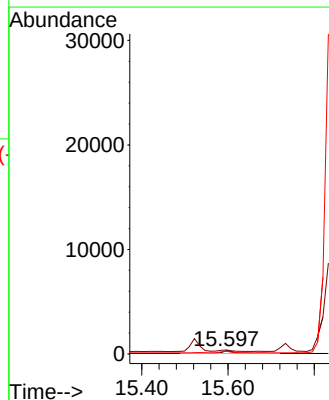
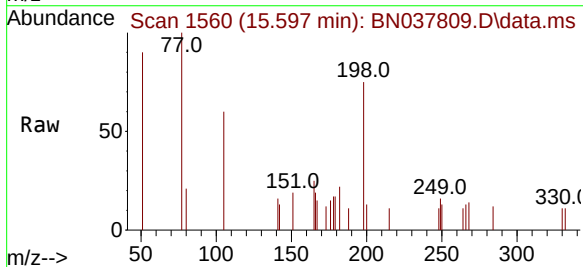
RT: 15.597 min Scan# 1560

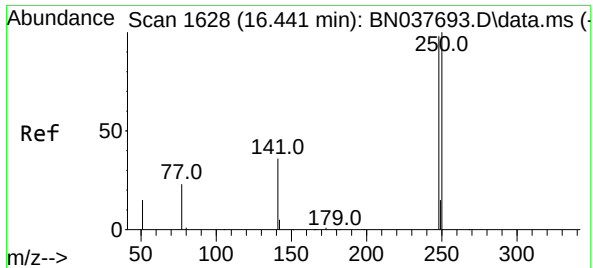
Delta R.T. -0.012 min

Lab File: BN037809.D

Acq: 19 Sep 2025 11:50

Tgt Ion:	198	Resp:	478
Ion Ratio	Lower	Upper	
198	100		
51	119.6	95.1	142.7
105	79.2	53.8	80.6





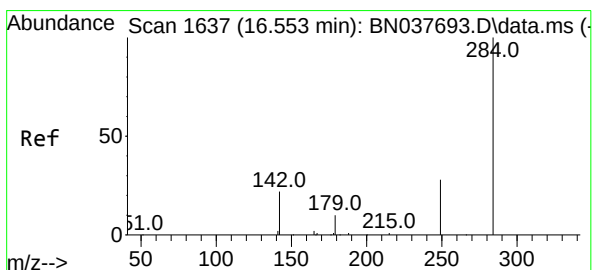
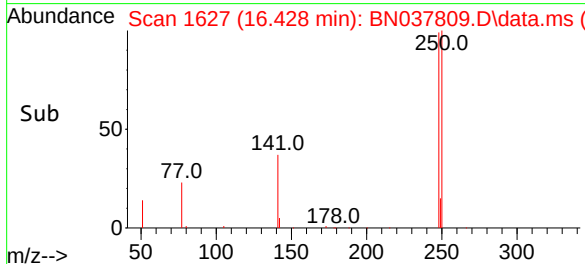
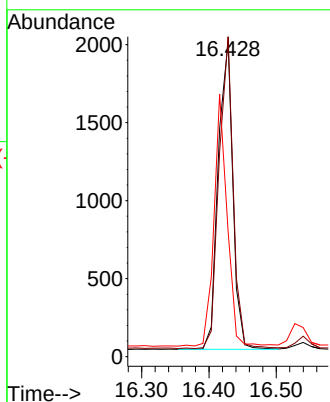
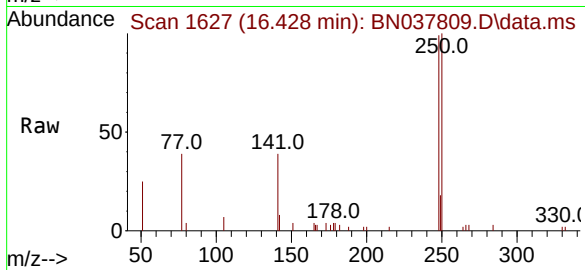
#21
4-Bromophenyl-phenylether
Concen: 0.352 ng
RT: 16.428 min Scan# 1627
Delta R.T. -0.013 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS

Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.4	81.5	122.3
141	39.6	30.8	46.2

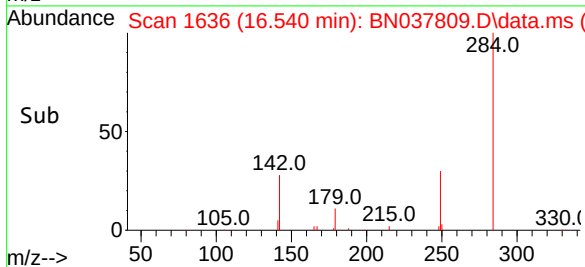
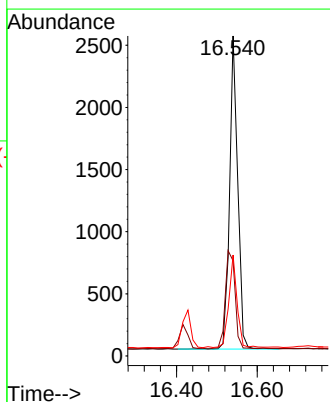
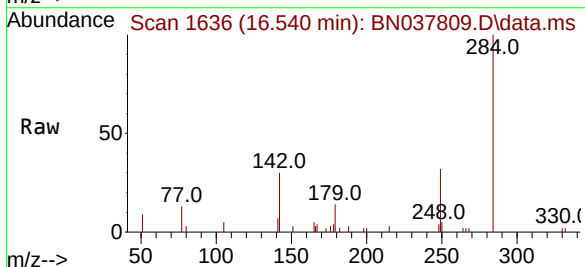
Manual Integrations
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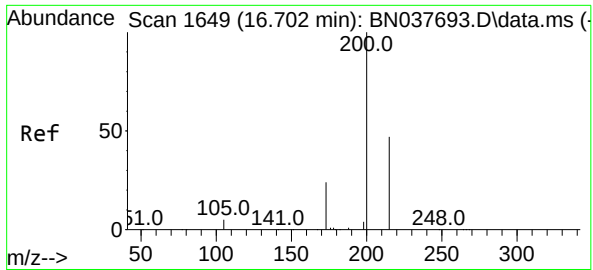
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#22
Hexachlorobenzene
Concen: 0.366 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.5	30.9	46.3
249	30.1	24.8	37.2





#23

Atrazine

Concen: 0.380 ng

RT: 16.689 min Scan# 1648

Delta R.T. -0.013 min

Lab File: BN037809.D

Acq: 19 Sep 2025 11:50

Instrument :

BNA_N

ClientSampleId :

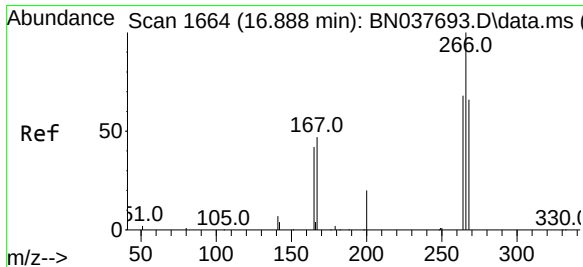
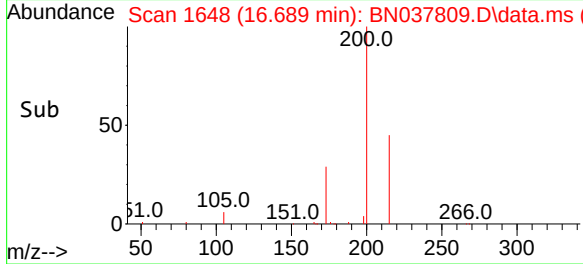
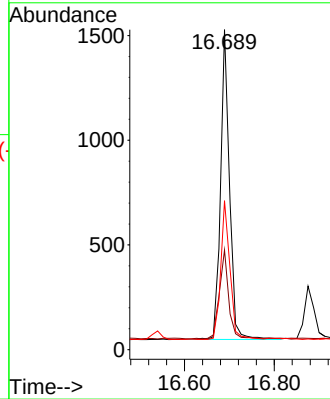
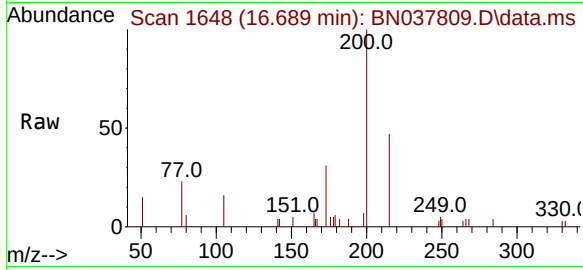
TT119S1-20250916MS

Tgt Ion:	200	Resp:	203
Ion Ratio	Lower	Upper	
200	100		
173	31.2	21.4	32.2
215	46.5	39.2	58.8

Manual Integrations
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Reviewed By :Rahul Chavli 09/22/2025

Supervised By :mohammad ahmed 09/23/2025



#24

Pentachlorophenol

Concen: 0.774 ng

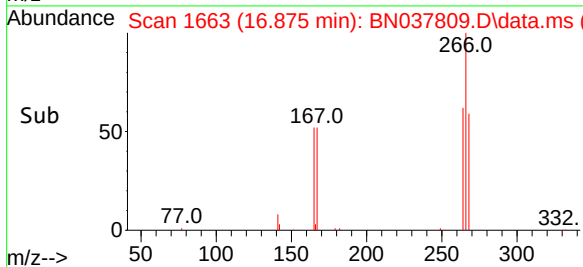
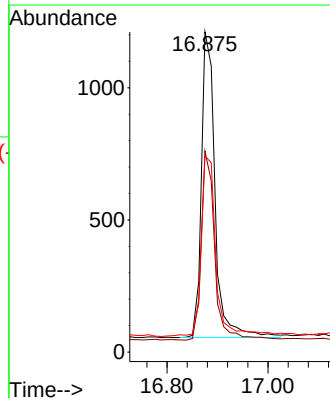
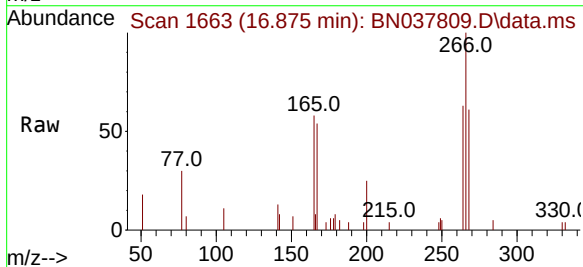
RT: 16.875 min Scan# 1663

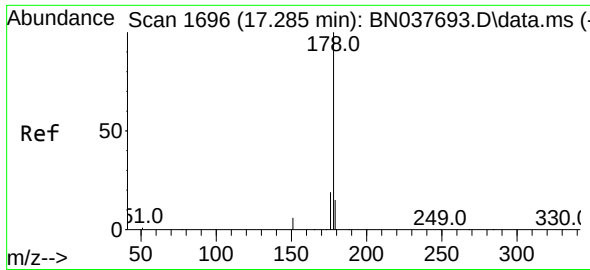
Delta R.T. -0.013 min

Lab File: BN037809.D

Acq: 19 Sep 2025 11:50

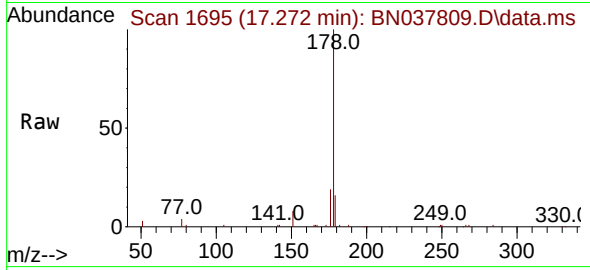
Tgt Ion:	266	Resp:	2175
Ion Ratio	Lower	Upper	
266	100		
264	61.2	51.6	77.4
268	63.7	53.2	79.8





#25
Phenanthrene
Concen: 0.382 ng
RT: 17.272 min Scan# 1695
Delta R.T. -0.013 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

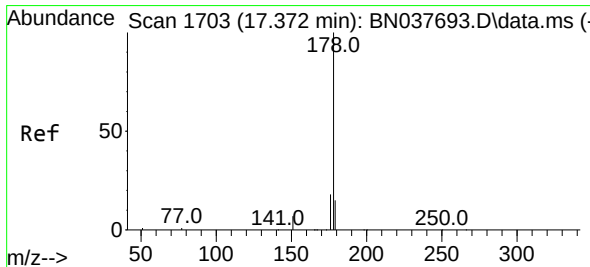
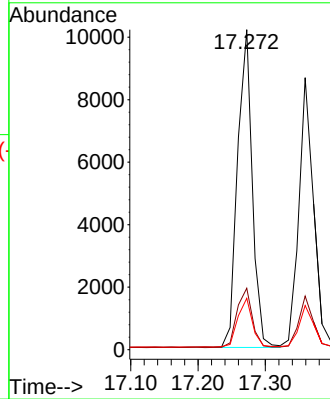
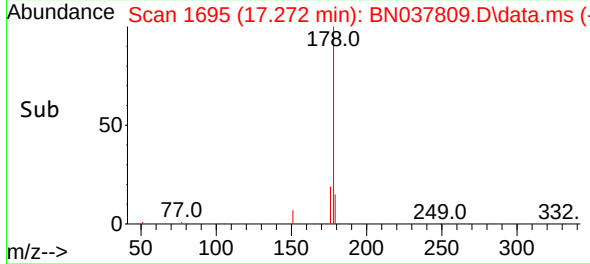
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS



Tgt Ion:178 Resp: 15520
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.4 12.2 18.2

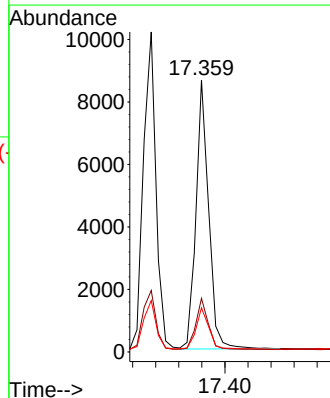
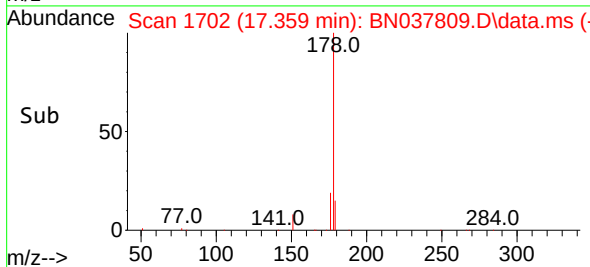
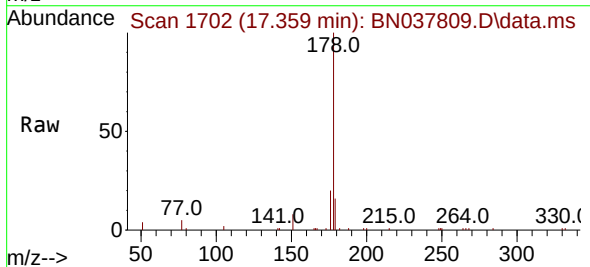
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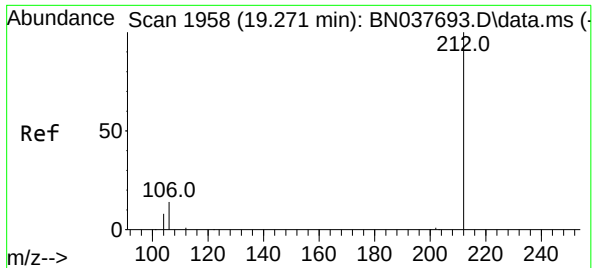
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#26
Anthracene
Concen: 0.366 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

Tgt Ion:178 Resp: 13174
Ion Ratio Lower Upper
178 100
176 19.0 14.6 22.0
179 15.6 12.2 18.4





#27

Fluoranthene-d10

Concen: 0.384 ng

RT: 19.261 min Scan# 1958

Delta R.T. -0.010 min

Lab File: BN037809.D

Acq: 19 Sep 2025 11:50

Instrument :

BNA_N

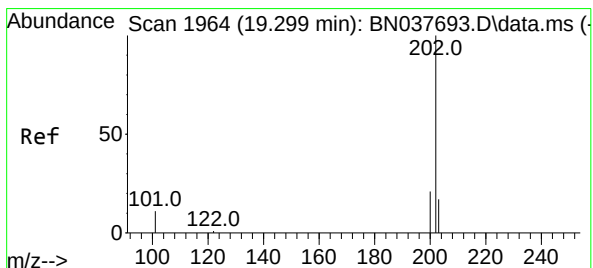
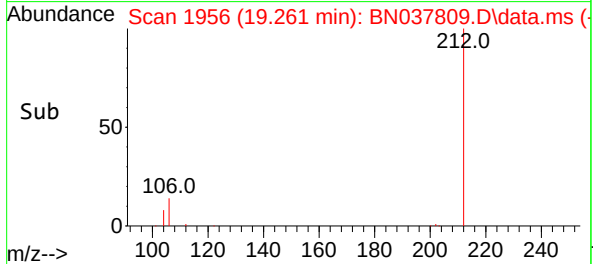
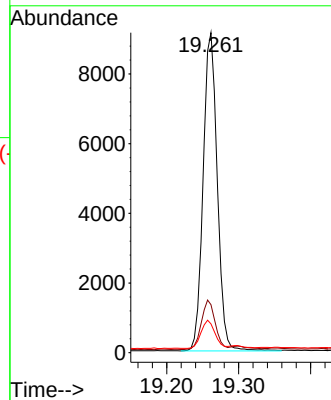
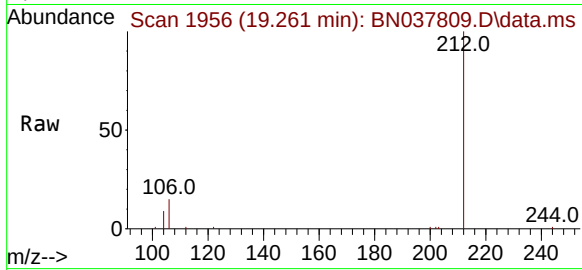
ClientSampleId :

TT119S1-20250916MS

Tgt Ion:	212	Resp:	1245
Ion Ratio	Lower	Upper	
212	100		
106	15.2	12.2	18.2
104	8.8	6.9	10.3

Manual Integrations
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Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#28

Fluoranthene

Concen: 0.384 ng

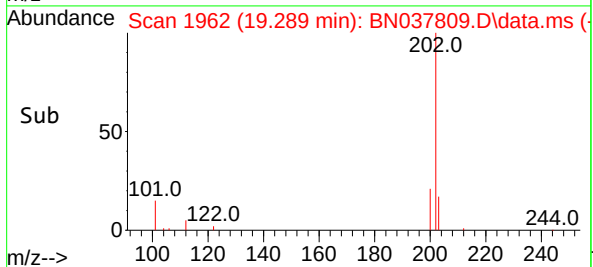
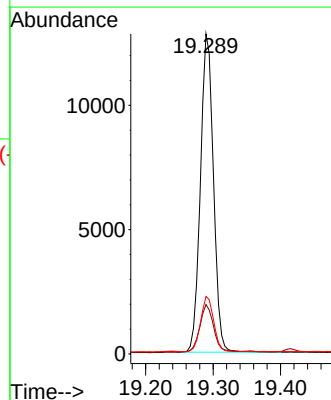
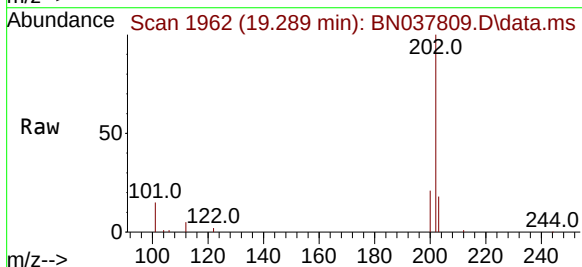
RT: 19.289 min Scan# 1962

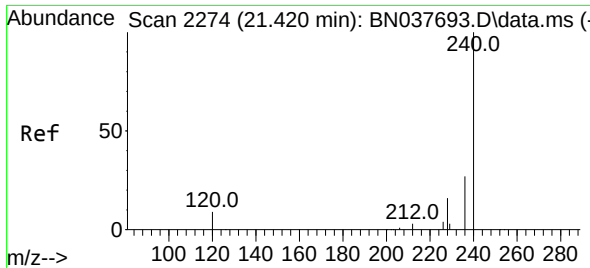
Delta R.T. -0.010 min

Lab File: BN037809.D

Acq: 19 Sep 2025 11:50

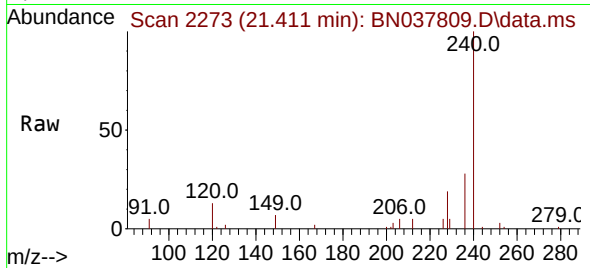
Tgt Ion:	202	Resp:	17140
Ion Ratio	Lower	Upper	
202	100		
101	15.9	9.3	13.9
203	17.3	13.7	20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

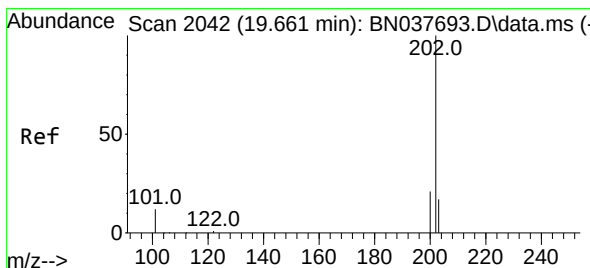
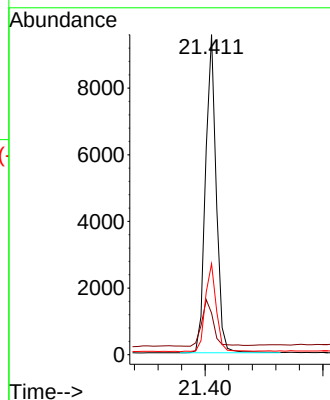
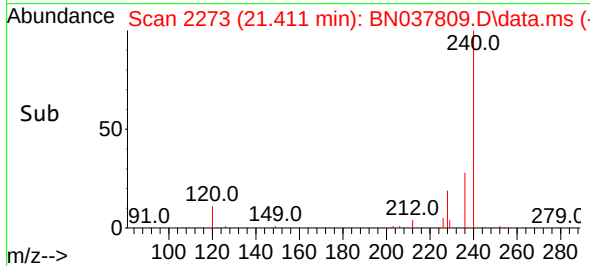
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS



Tgt Ion:240 Resp: 1202
Ion Ratio Lower Upper
240 100
120 13.0 9.2 13.8
236 28.4 22.6 33.8

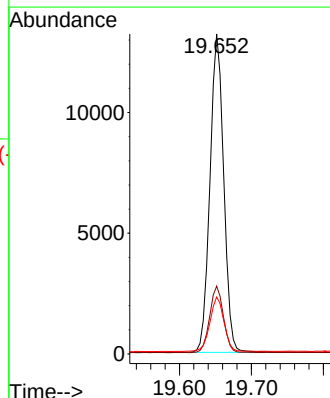
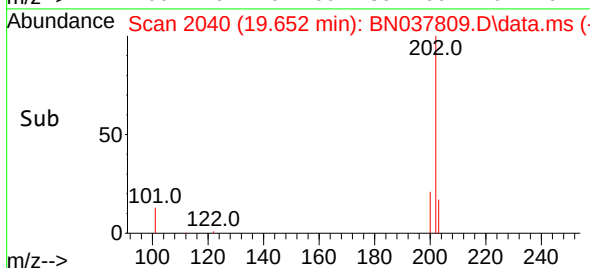
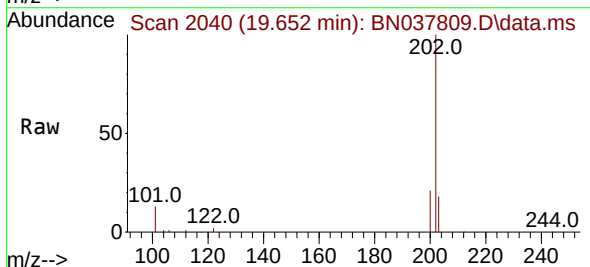
Manual Integrations
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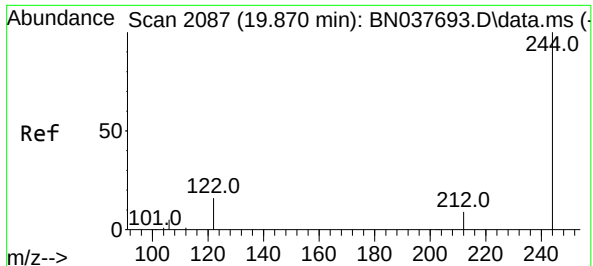
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#30
Pyrene
Concen: 0.371 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.010 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

Tgt Ion:202 Resp: 17451
Ion Ratio Lower Upper
202 100
200 20.8 16.8 25.2
203 17.4 14.3 21.5





#31

Terphenyl-d14

Concen: 0.404 ng

RT: 19.861 min Scan# 2085

Delta R.T. -0.010 min

Lab File: BN037809.D

Acq: 19 Sep 2025 11:50

Instrument :

BNA_N

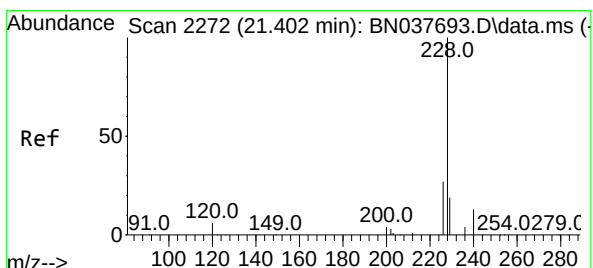
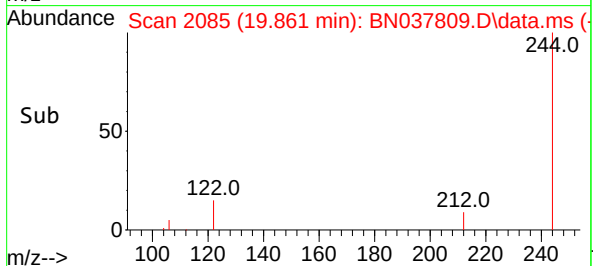
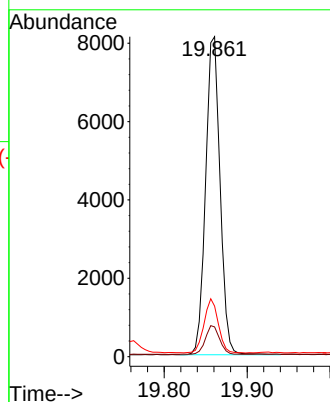
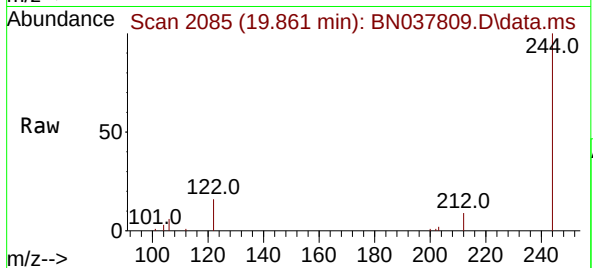
ClientSampleId :

TT119S1-20250916MS

Tgt Ion:	244	Resp:	985
Ion Ratio	Lower	Upper	
244	100		
212	9.3	7.5	11.3
122	15.8	13.2	19.8

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#32

Benzo(a)anthracene

Concen: 0.399 ng

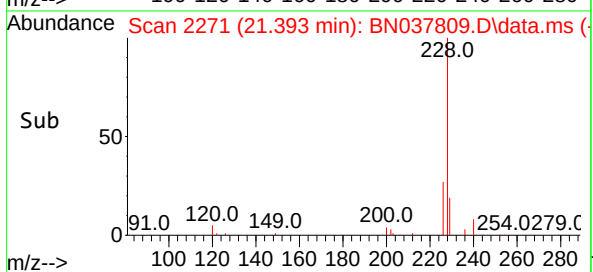
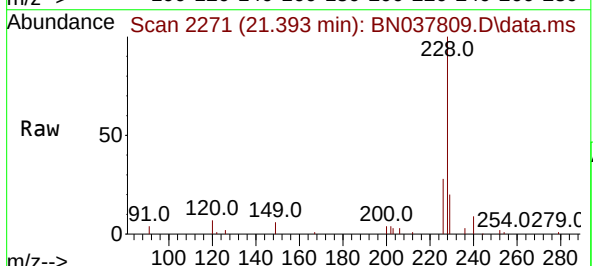
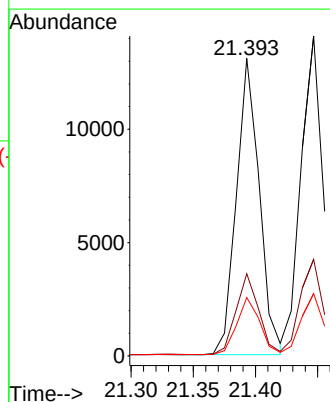
RT: 21.393 min Scan# 2271

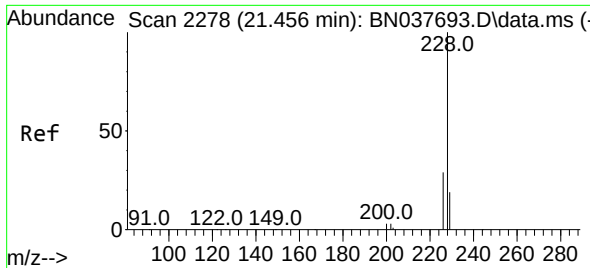
Delta R.T. -0.009 min

Lab File: BN037809.D

Acq: 19 Sep 2025 11:50

Tgt Ion:	228	Resp:	16723
Ion Ratio	Lower	Upper	
228	100		
226	27.6	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: BN037809.D

Acq: 19 Sep 2025 11:50

Instrument :

BNA_N

ClientSampleId :

TT119S1-20250916MS

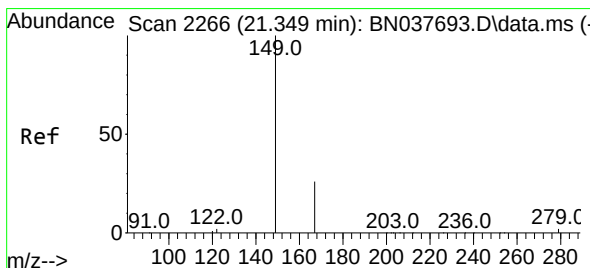
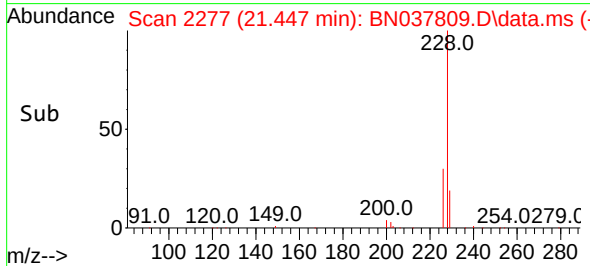
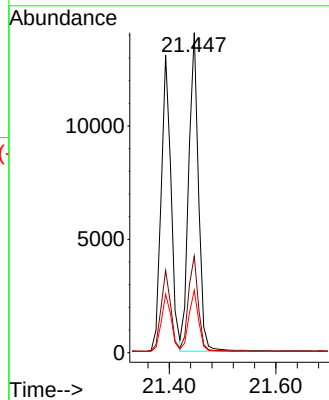
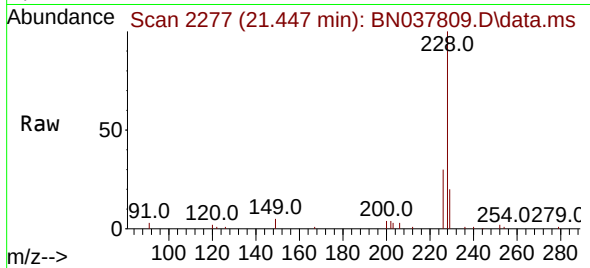
Tgt Ion:	228	Resp:	1784
Ion Ratio	Lower	Upper	
228	100		
226	30.2	23.5	35.3
229	19.5	15.9	23.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/22/2025

Supervised By :mohammad ahmed 09/23/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.504 ng

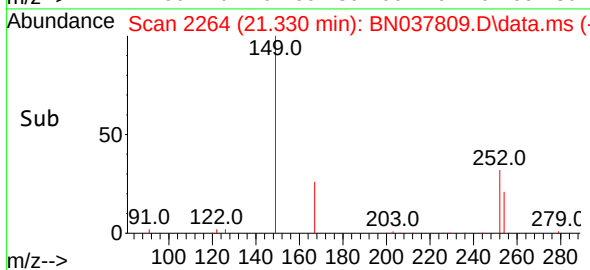
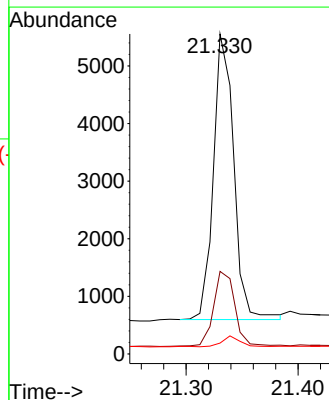
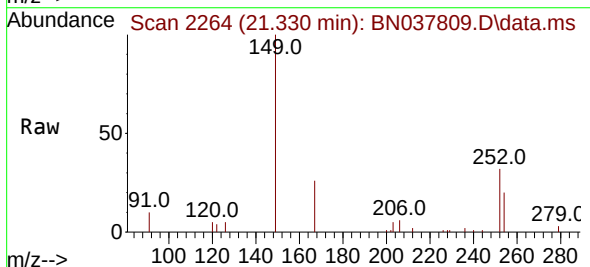
RT: 21.330 min Scan# 2264

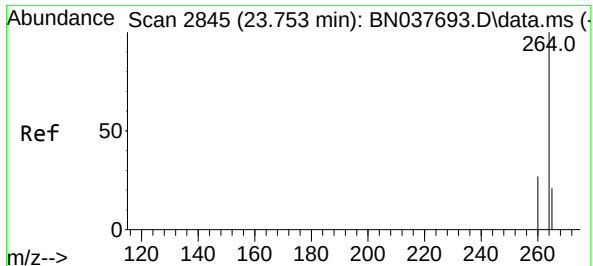
Delta R.T. -0.018 min

Lab File: BN037809.D

Acq: 19 Sep 2025 11:50

Tgt Ion:	149	Resp:	6260
Ion Ratio	Lower	Upper	
149	100		
167	27.6	20.8	31.2
279	3.5	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: BN037809.D

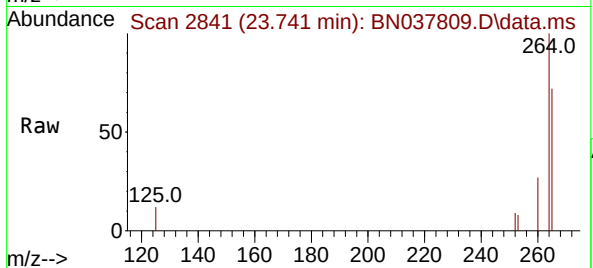
Acq: 19 Sep 2025 11:50

Instrument :

BNA_N

ClientSampleId :

TT119S1-20250916MS



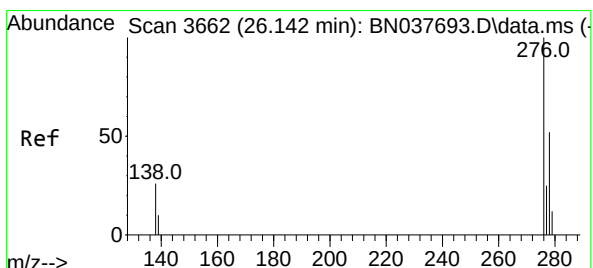
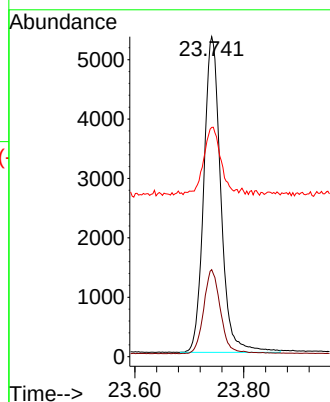
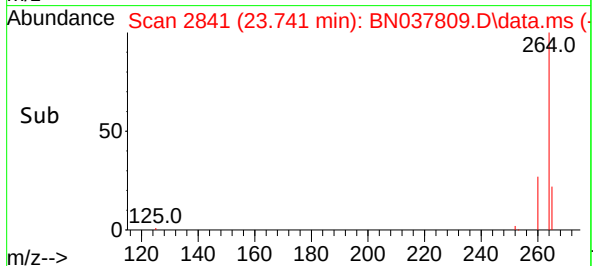
Tgt Ion:	264	Resp:	1151
Ion Ratio	Lower	Upper	
264	100		
260	27.2	21.8	32.8
265	71.7	39.4	59.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/22/2025

Supervised By :mohammad ahmed 09/23/2025



#36

Indeno(1,2,3-cd)pyrene

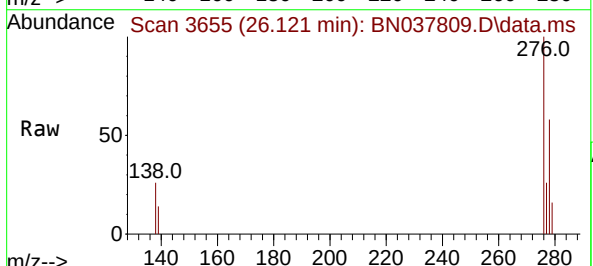
Concen: 0.390 ng

RT: 26.121 min Scan# 3655

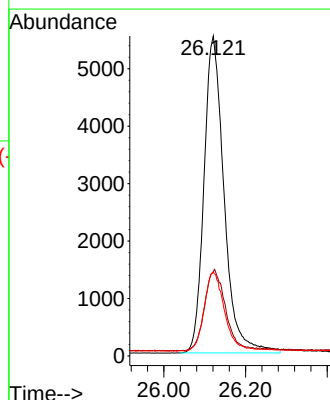
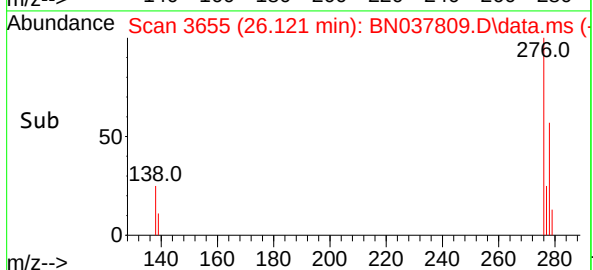
Delta R.T. -0.021 min

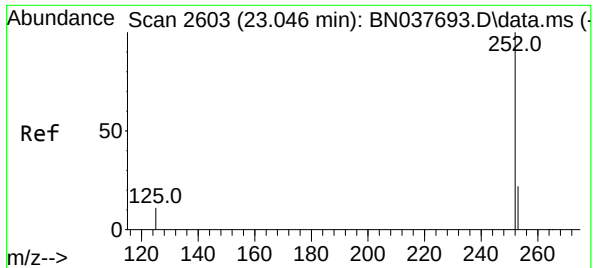
Lab File: BN037809.D

Acq: 19 Sep 2025 11:50



Tgt Ion:	276	Resp:	18885
Ion Ratio	Lower	Upper	
276	100		
138	26.3	21.9	32.9
277	25.3	20.1	30.1





#37

Benzo(b)fluoranthene

Concen: 0.404 ng

RT: 23.037 min Scan# 2600

Delta R.T. -0.009 min

Lab File: BN037809.D

Acq: 19 Sep 2025 11:50

Instrument :

BNA_N

ClientSampleId :

TT119S1-20250916MS

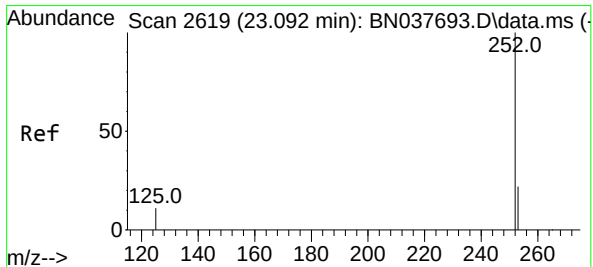
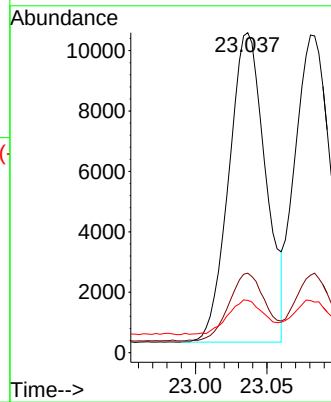
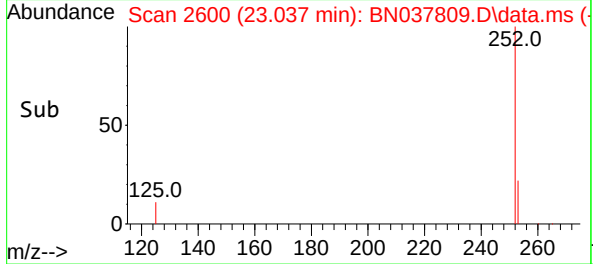
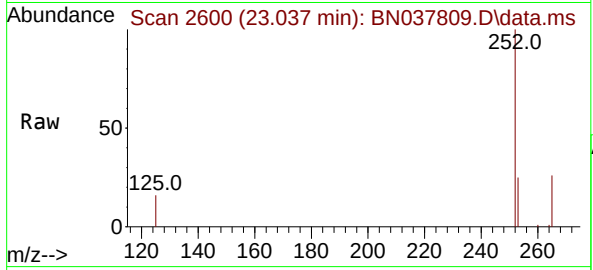
Tgt Ion:252	Resp:	18300
Ion Ratio	Lower	Upper
252	100	
253	24.9	19.4 29.2
125	16.4	11.2 16.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/22/2025

Supervised By :mohammad ahmed 09/23/2025



#38

Benzo(k)fluoranthene

Concen: 0.392 ng

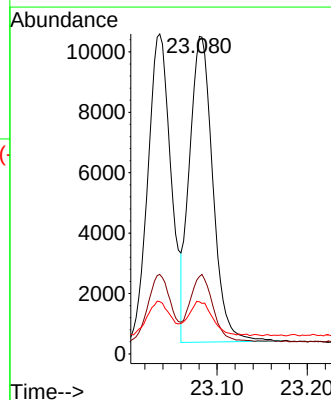
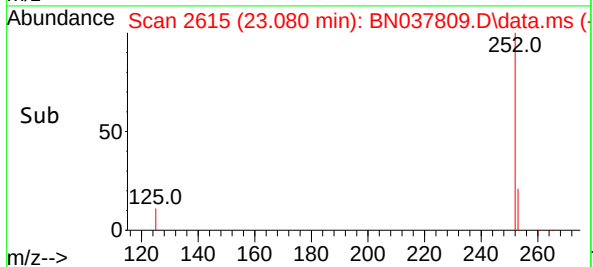
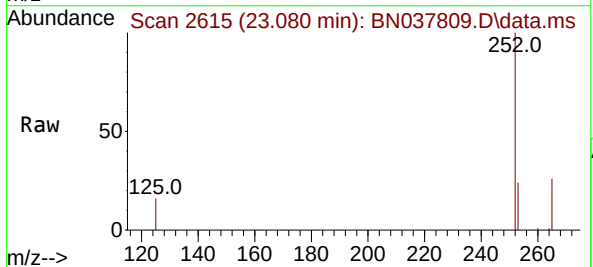
RT: 23.080 min Scan# 2615

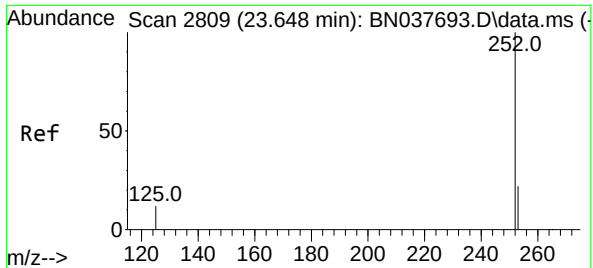
Delta R.T. -0.012 min

Lab File: BN037809.D

Acq: 19 Sep 2025 11:50

Tgt Ion:252	Resp:	18144
Ion Ratio	Lower	Upper
252	100	
253	24.4	19.4 29.0
125	16.4	11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.401 ng

RT: 23.636 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037809.D

Acq: 19 Sep 2025 11:50

Instrument :

BNA_N

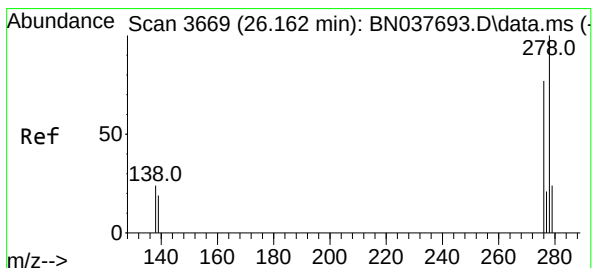
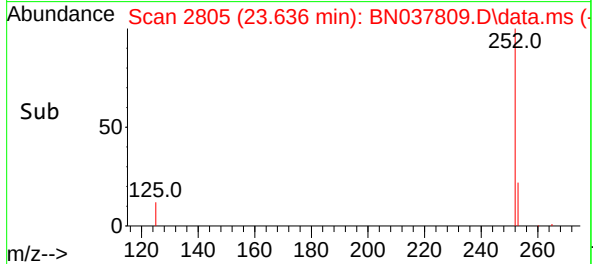
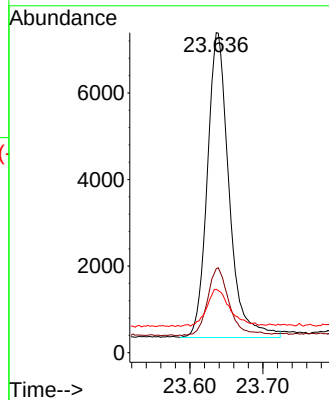
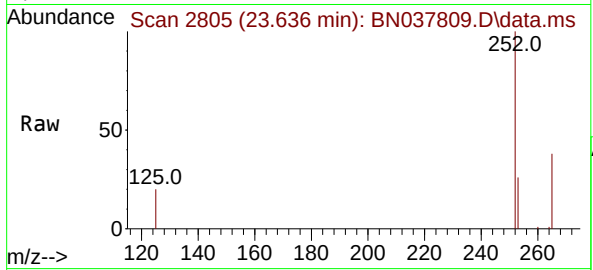
ClientSampleId :

TT119S1-20250916MS

Tgt Ion:	252	Resp:	1455
Ion Ratio	Lower	Upper	
252	100		
253	26.2	20.8	31.2
125	19.8	13.9	20.9

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.390 ng

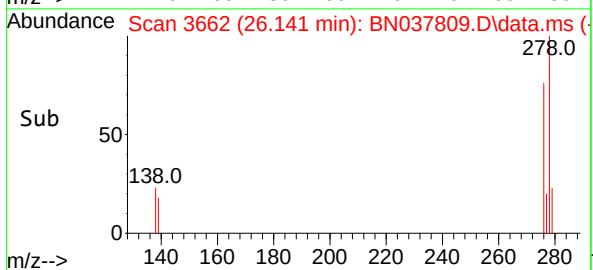
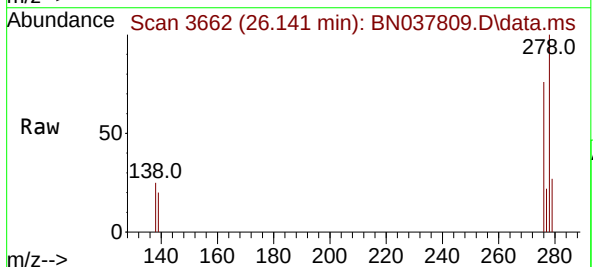
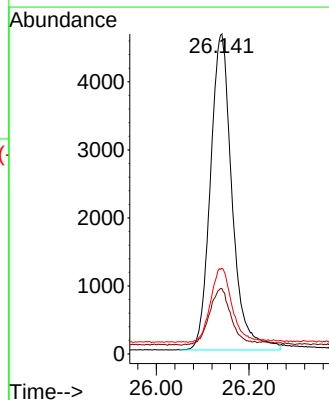
RT: 26.141 min Scan# 3662

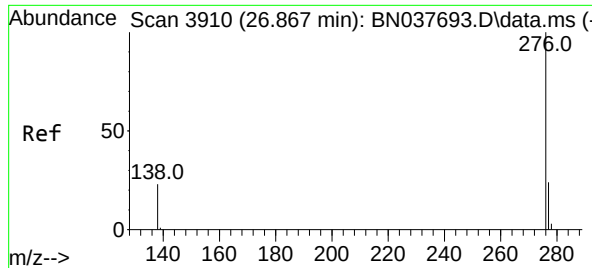
Delta R.T. -0.021 min

Lab File: BN037809.D

Acq: 19 Sep 2025 11:50

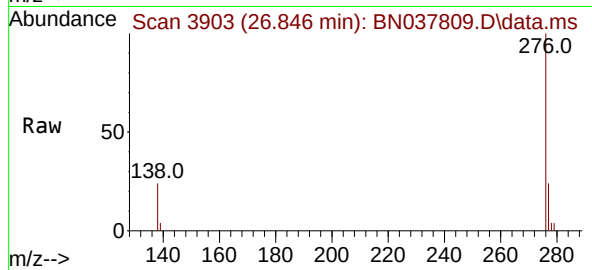
Tgt Ion:	278	Resp:	15061
Ion Ratio	Lower	Upper	
278	100		
139	20.4	17.8	26.6
279	26.8	22.0	33.0





#41
Benzo(g,h,i)perylene
Concen: 0.345 ng
RT: 26.846 min Scan# 3910
Delta R.T. -0.021 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

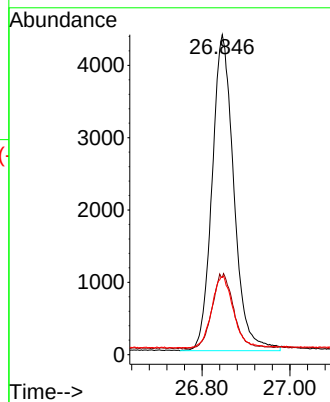
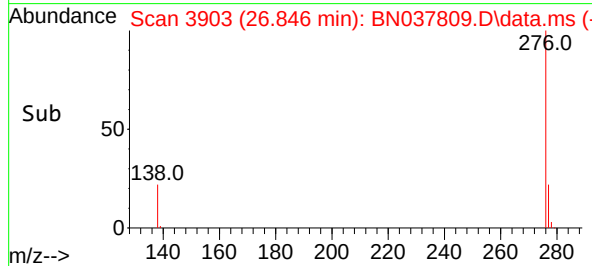
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS



Tgt Ion:276 Resp: 1496
Ion Ratio Lower Upper
276 100
277 24.1 20.6 31.0
138 24.2 20.2 30.2

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/16/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/17/25
Client Sample ID:	TT119S1-20250916MSD	SDG No.:	Q3127
Lab Sample ID:	Q3127-15MSD	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
BN037810.D	1	09/18/25 11:35	09/19/25 12:27	PB169743

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.35		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	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		104%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5680	7.833				
1146-65-2	Naphthalene-d8	15400	10.637				
15067-26-2	Acenaphthene-d10	6860	14.484				
1517-22-2	Phenanthrene-d10	11600	17.223				
1719-03-5	Chrysene-d12	10000	21.411				
1520-96-3	Perylene-d12	9740	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 : BN037810.D
 Acq On : 19 Sep 2025 12:27
 Operator : RC/JU
 Sample : Q3127-15MSD
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT119S1-20250916MSD

Quant Time: Sep 19 13:03:39 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

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/22/2025
 Supervised By :mohammad ahmed 09/23/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	5675	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	15407	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	6857	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	11592	0.400	ng	-0.01
29) Chrysene-d12	21.411	240	10004	0.400	ng	0.00
35) Perylene-d12	23.741	264	9737	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.391	112	1897	0.146	ng	0.00
5) Phenol-d6	6.980	99	1434	0.085	ng	0.00
8) Nitrobenzene-d5	8.982	82	3901	0.346	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	6304m	0.309	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	782	0.437	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	10028	0.350	ng	-0.01
27) Fluoranthene-d10	19.262	212	10760	0.370	ng	0.00
31) Terphenyl-d14	19.861	244	8455	0.416	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	2066	0.350	ng	# 93
3) n-Nitrosodimethylamine	3.600	42	1165	0.151	ng	# 74
6) bis(2-Chloroethyl)ether	7.248	93	5222	0.346	ng	100
9) Naphthalene	10.680	128	13821	0.328	ng	100
10) Hexachlorobutadiene	10.989	225	2343	0.308	ng	# 99
12) 2-Methylnaphthalene	12.303	142	7743	0.297	ng	98
16) Acenaphthylene	14.195	152	11528	0.367	ng	99
17) Acenaphthene	14.548	154	7272	0.342	ng	99
18) Fluorene	15.535	166	8661	0.336	ng	99
20) 4,6-Dinitro-2-methylph...	15.597	198	404	0.376	ng	92
21) 4-Bromophenyl-phenylether	16.429	248	2790	0.369	ng	98
22) Hexachlorobenzene	16.540	284	3269	0.376	ng	99
23) Atrazine	16.689	200	1858	0.386	ng	96
24) Pentachlorophenol	16.875	266	1907	0.755	ng	96
25) Phenanthrene	17.273	178	14009	0.384	ng	100
26) Anthracene	17.359	178	11991	0.371	ng	99
28) Fluoranthene	19.290	202	14730	0.368	ng	# 95
30) Pyrene	19.652	202	14951	0.382	ng	100
32) Benzo(a)anthracene	21.393	228	13905	0.399	ng	99
33) Chrysene	21.447	228	14913	0.399	ng	99
34) Bis(2-ethylhexyl)phtha...	21.331	149	5161	0.499	ng	98
36) Indeno(1,2,3-cd)pyrene	26.121	276	16404	0.401	ng	99
37) Benzo(b)fluoranthene	23.037	252	15470	0.403	ng	# 96
38) Benzo(k)fluoranthene	23.084	252	15665	0.401	ng	96
39) Benzo(a)pyrene	23.636	252	12334	0.402	ng	# 96
40) Dibenzo(a,h)anthracene	26.142	278	13012	0.398	ng	99
41) Benzo(g,h,i)perylene	26.849	276	12751	0.348	ng	99

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

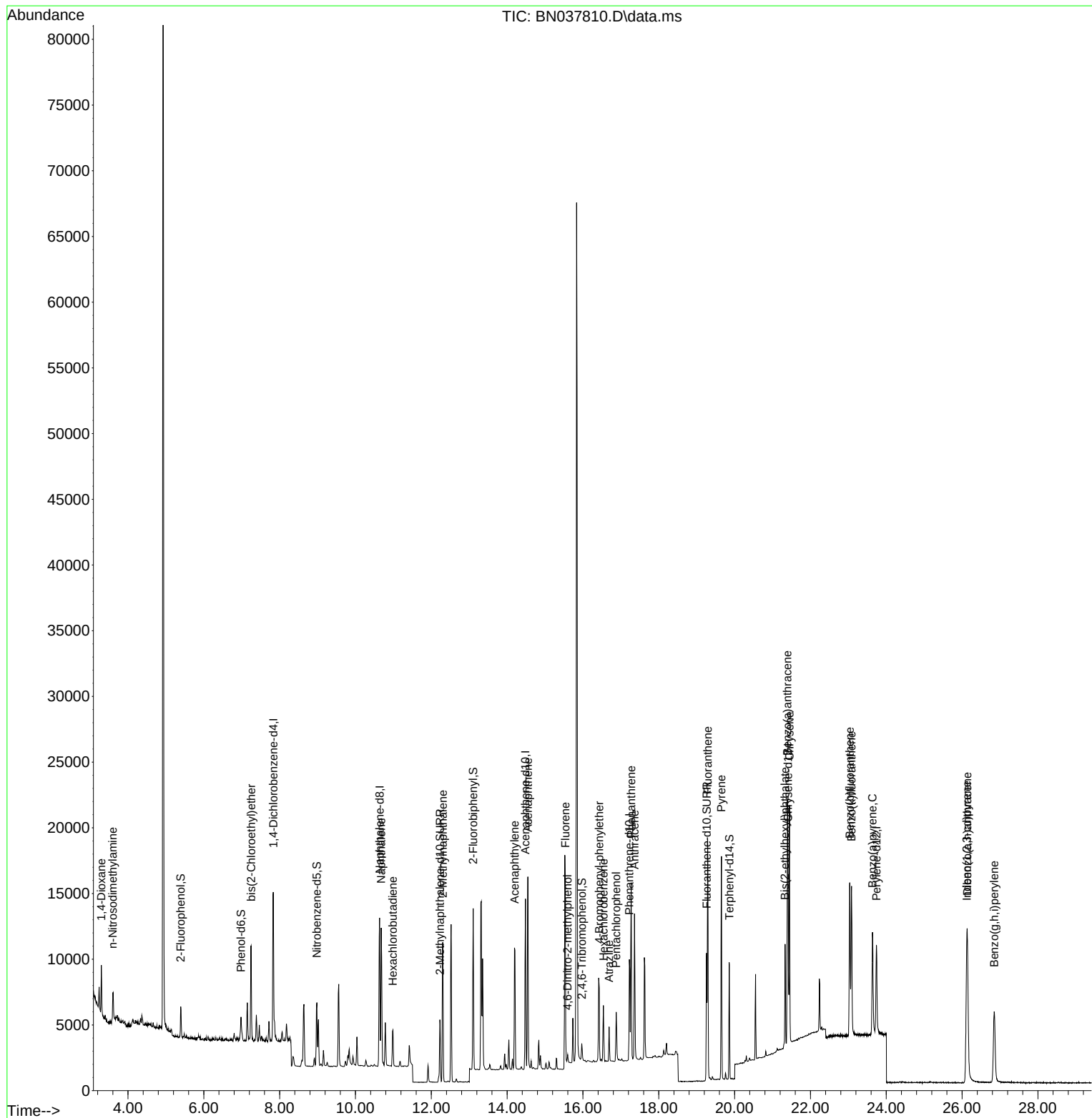
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037810.D
Acq On : 19 Sep 2025 12:27
Operator : RC/JU
Sample : Q3127-15MSD
Misc :
ALS Vial : 35 Sample Multiplier: 1

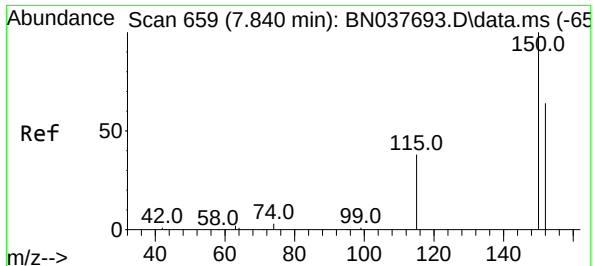
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD

Quant Time: Sep 19 13:03:39 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

Manual Integrations
APPROVED

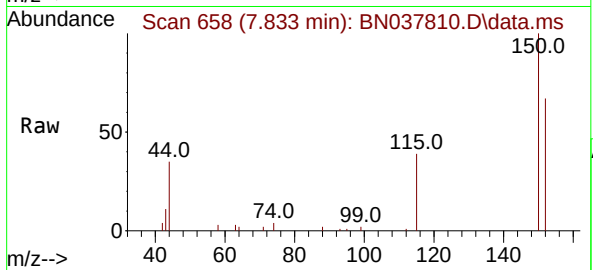
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

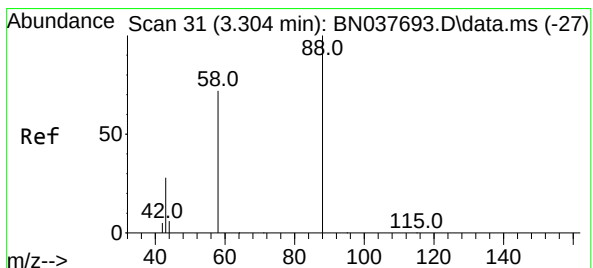
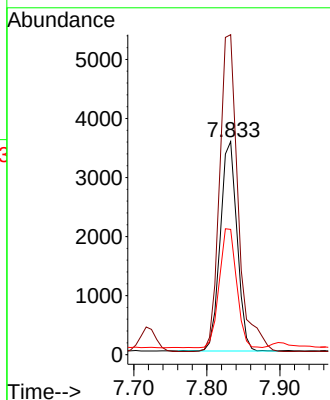
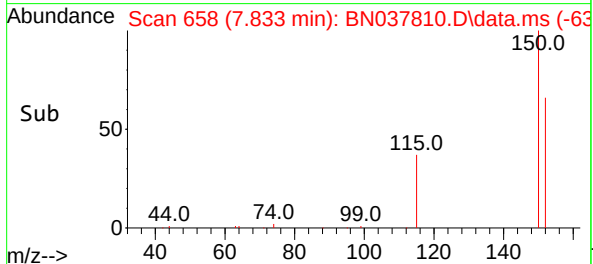
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD



Tgt Ion: 152 Resp: 567
Ion Ratio Lower Upper
152 100
150 150.1 124.5 186.7
115 58.8 49.2 73.8

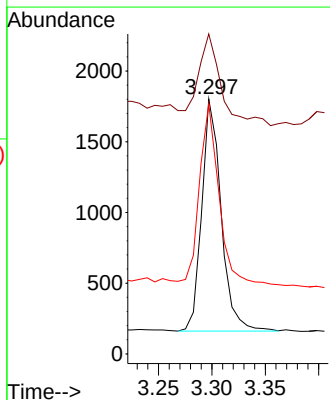
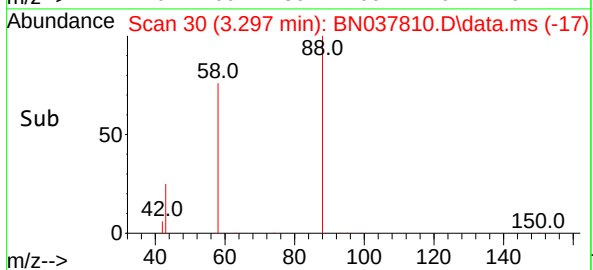
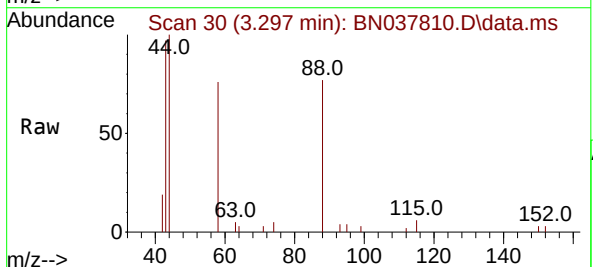
Manual Integrations
APPROVED

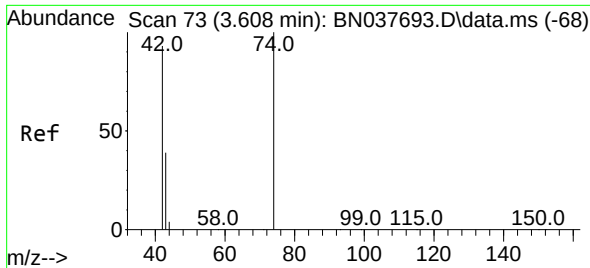
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#2
1,4-Dioxane
Concen: 0.350 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

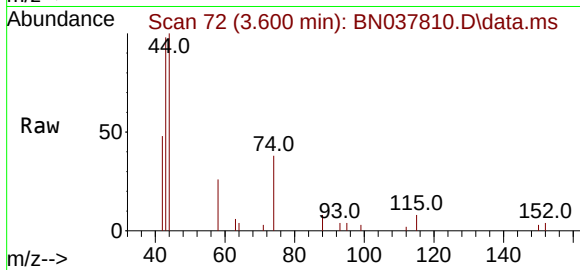
Tgt Ion: 88 Resp: 2066
Ion Ratio Lower Upper
88 100
43 43.1 26.8 40.2#
58 79.7 61.9 92.9





#3
n-Nitrosodimethylamine
Concen: 0.151 ng
RT: 3.600 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

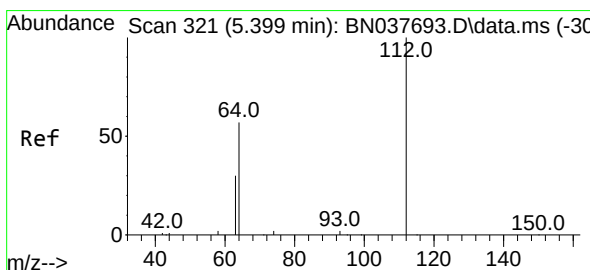
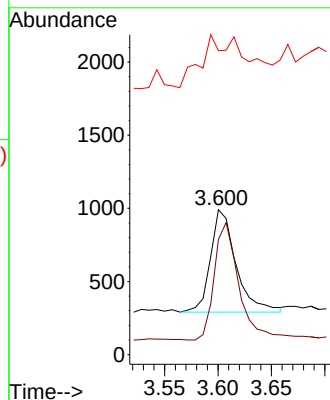
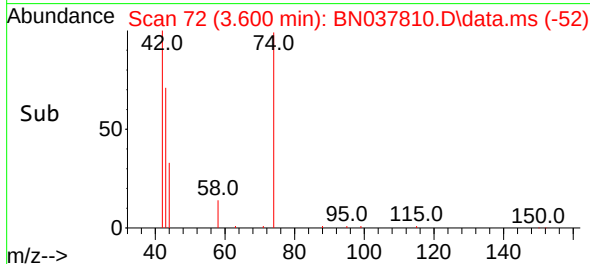
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD



Tgt Ion: 42 Resp: 116
Ion Ratio Lower Upper
42 100
74 114.0 86.0 129.0
44 95.3 8.4 12.6

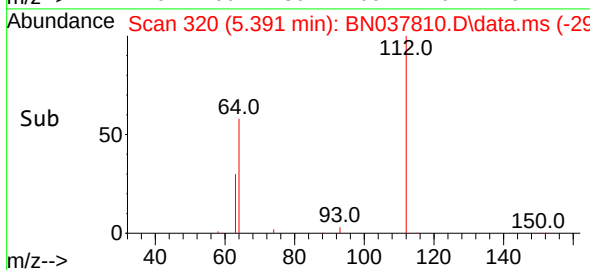
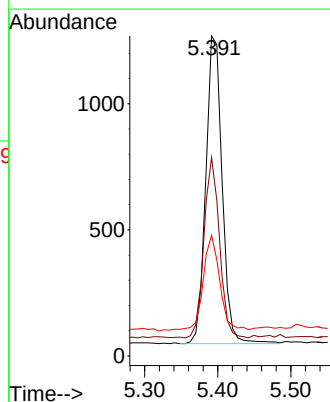
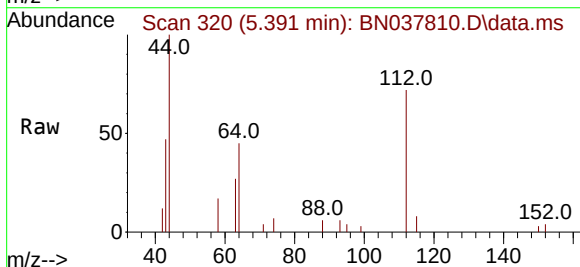
Manual Integrations
APPROVED

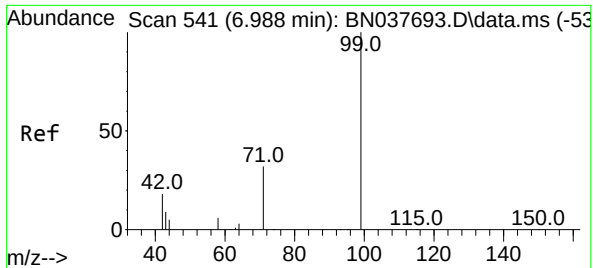
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#4
2-Fluorophenol
Concen: 0.146 ng
RT: 5.391 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

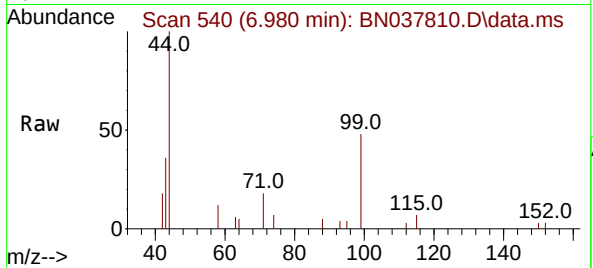
Tgt Ion:112 Resp: 1897
Ion Ratio Lower Upper
112 100
64 55.4 44.9 67.3
63 31.5 24.7 37.1





#5
Phenol-d6
Concen: 0.085 ng
RT: 6.980 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

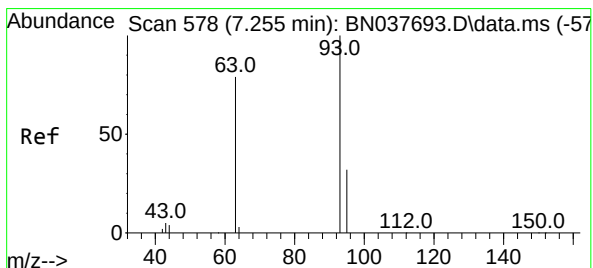
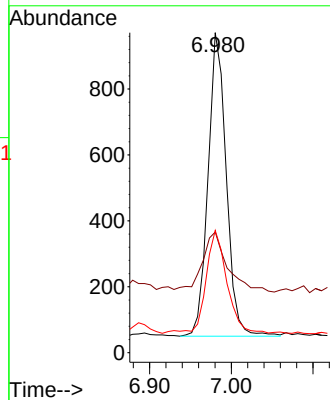
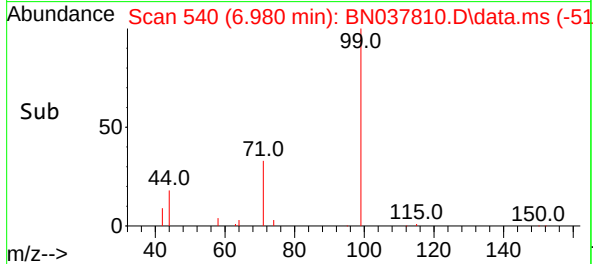
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD



Tgt Ion: 99 Resp: 1434
Ion Ratio Lower Upper
99 100
42 27.4 16.6 24.8
71 39.0 26.7 40.1

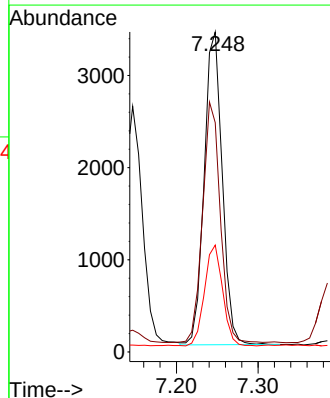
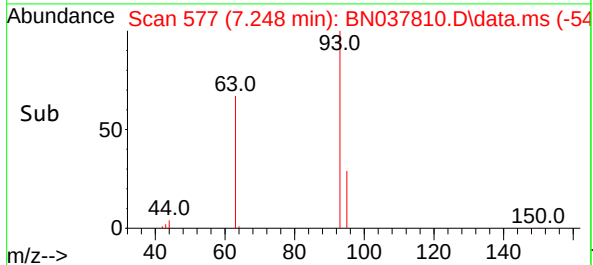
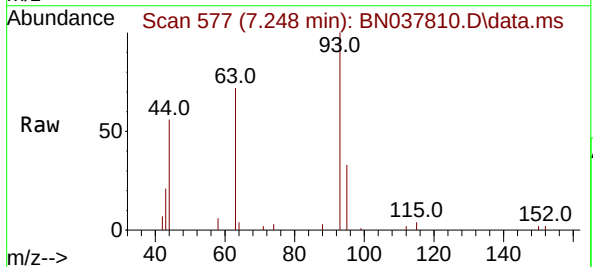
Manual Integrations
APPROVED

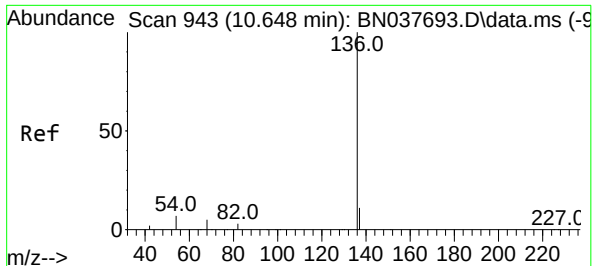
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.346 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

Tgt Ion: 93 Resp: 5222
Ion Ratio Lower Upper
93 100
63 75.5 60.6 90.8
95 32.4 26.0 39.0





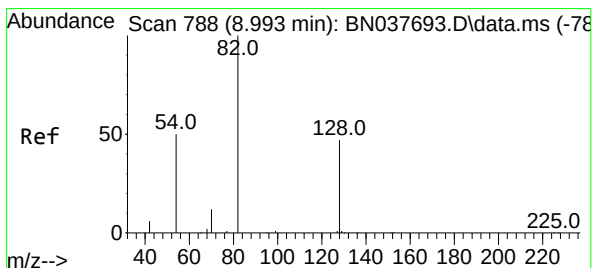
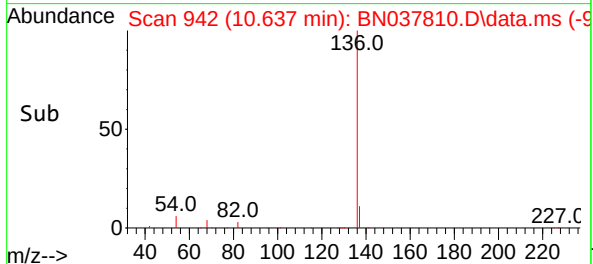
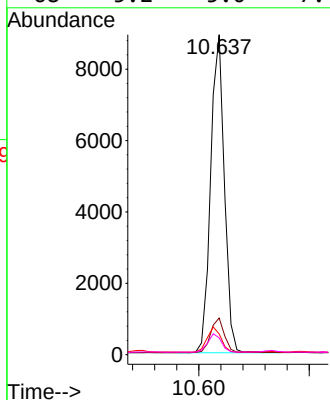
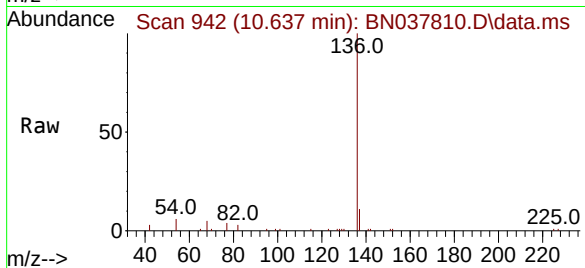
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD

Tgt Ion:	136	Resp:	1540
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	6.5	6.3	9.5
68	5.2	5.0	7.4

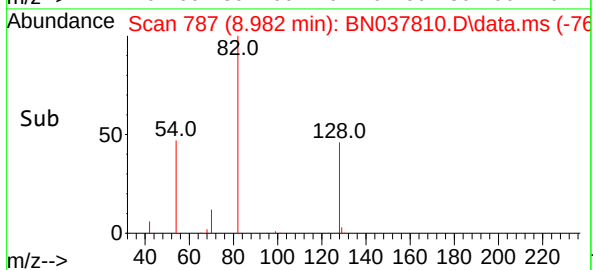
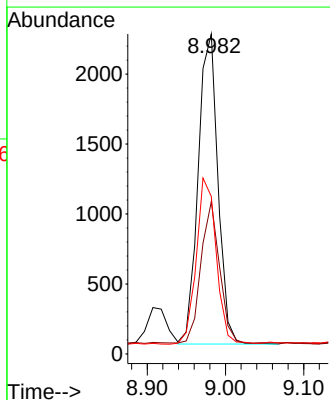
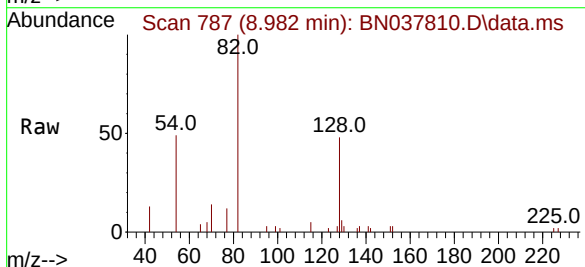
Manual Integrations
APPROVED

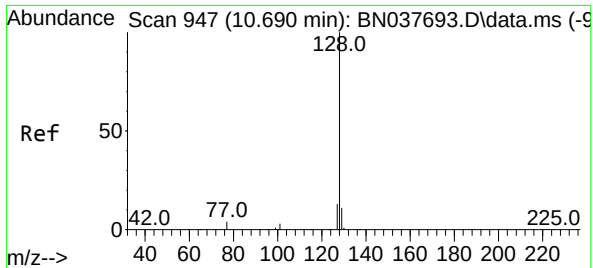
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#8
Nitrobenzene-d5
Concen: 0.346 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

Tgt Ion:	82	Resp:	3901
Ion	Ratio	Lower	Upper
82	100		
128	47.6	38.3	57.5
54	49.2	41.4	62.2





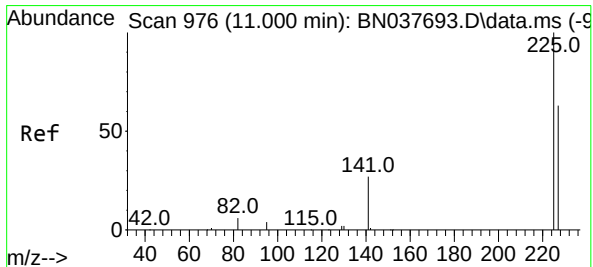
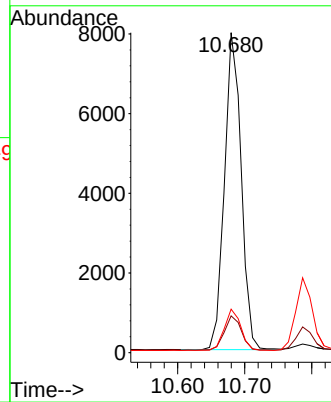
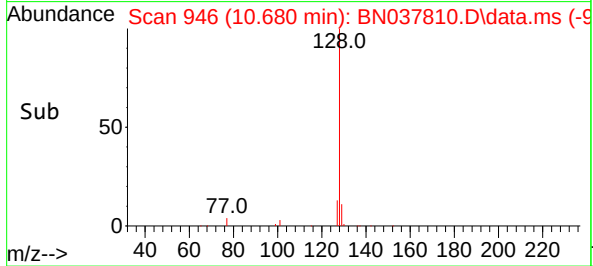
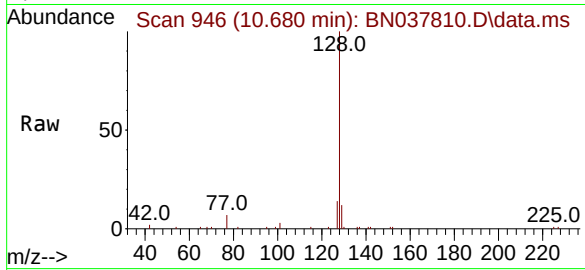
#9
Naphthalene
Concen: 0.328 ng
RT: 10.680 min Scan# 946
Delta R.T. -0.011 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD

Tgt Ion:128 Resp: 1382
Ion Ratio Lower Upper
128 100
129 11.5 9.1 13.7
127 13.6 10.9 16.3

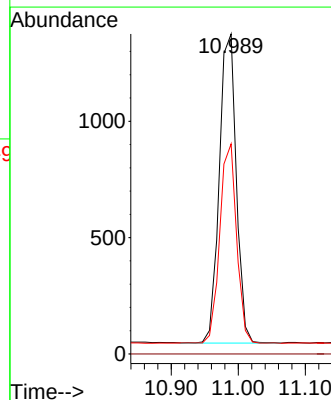
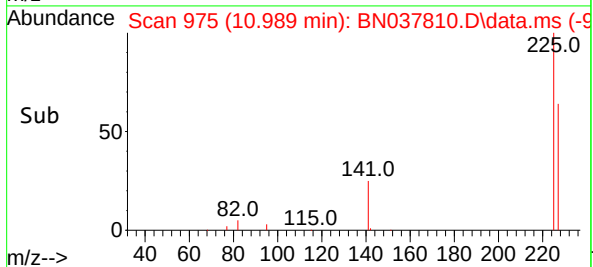
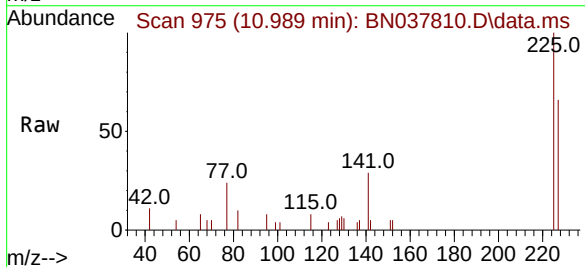
Manual Integrations
APPROVED

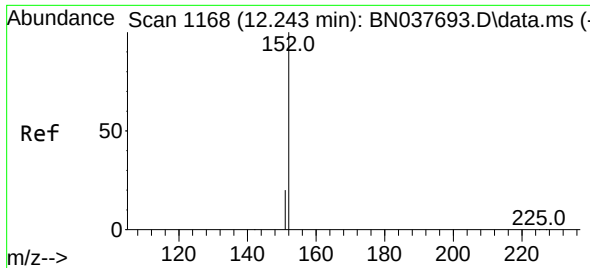
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#10
Hexachlorobutadiene
Concen: 0.308 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

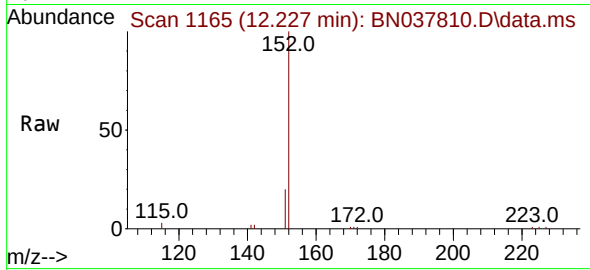
Tgt Ion:225 Resp: 2343
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.1 50.9 76.3





#11
2-Methylnaphthalene-d10
Concen: 0.309 ng m
RT: 12.227 min Scan# 1168
Delta R.T. -0.015 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

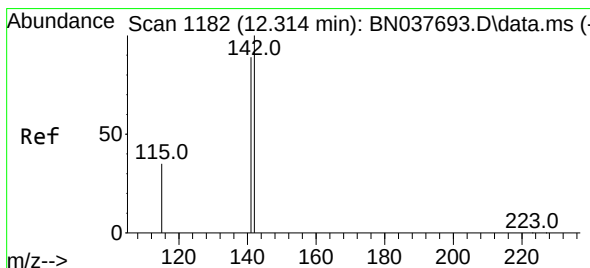
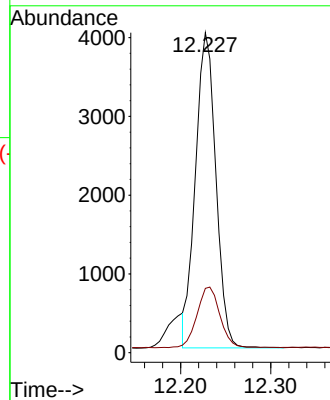
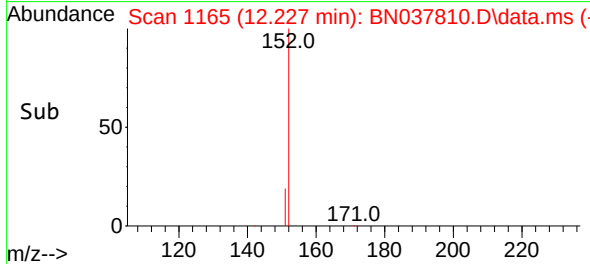
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD



Tgt Ion:152 Resp: 6304
Ion Ratio Lower Upper
152 100
151 21.7 17.0 25.6

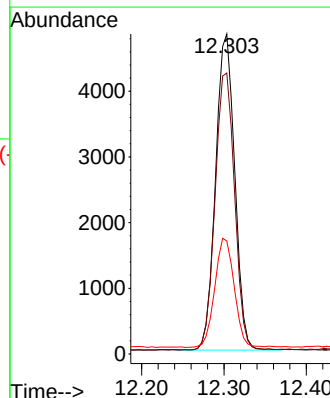
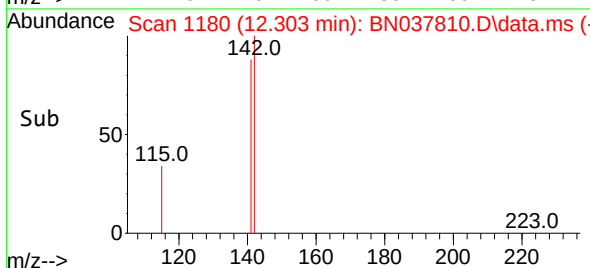
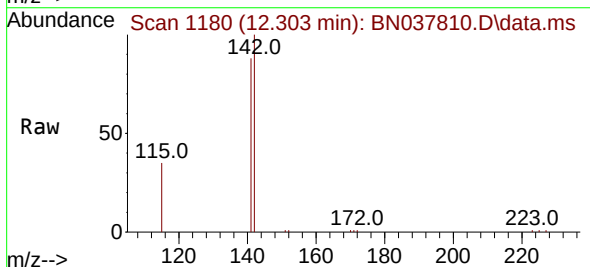
Manual Integrations
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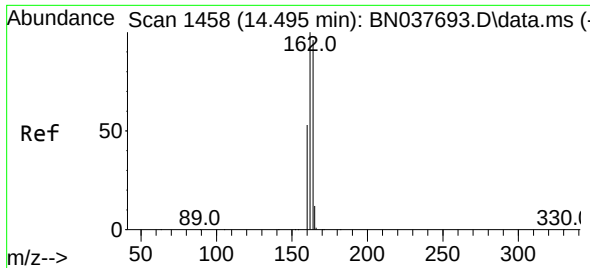
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#12
2-Methylnaphthalene
Concen: 0.297 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

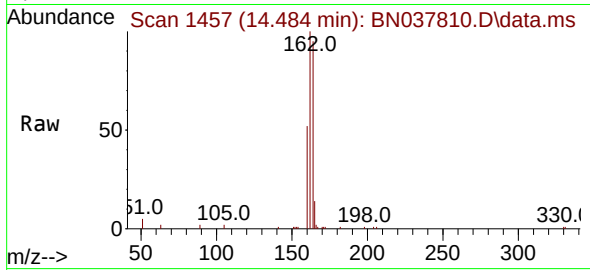
Tgt Ion:142 Resp: 7743
Ion Ratio Lower Upper
142 100
141 87.8 71.6 107.4
115 35.3 28.6 43.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

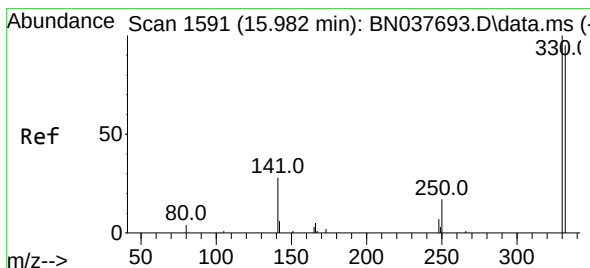
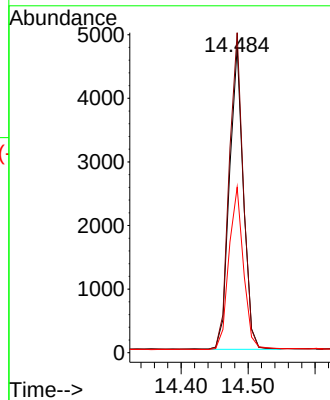
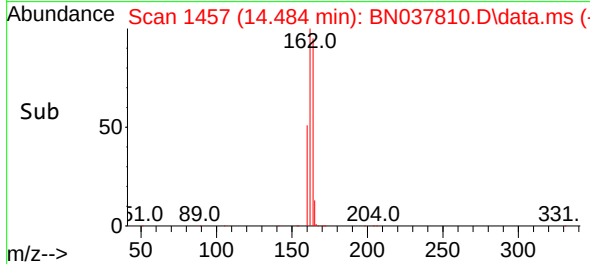
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD



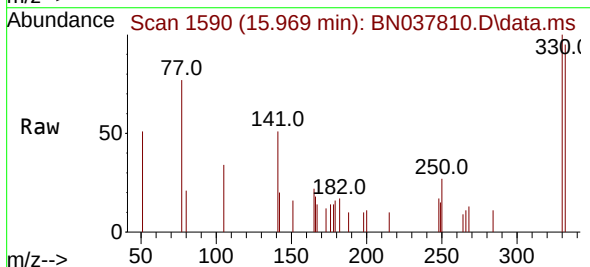
Tgt Ion:164 Resp: 685
Ion Ratio Lower Upper
164 100
162 104.7 83.1 124.7
160 54.1 44.3 66.5

Manual Integrations
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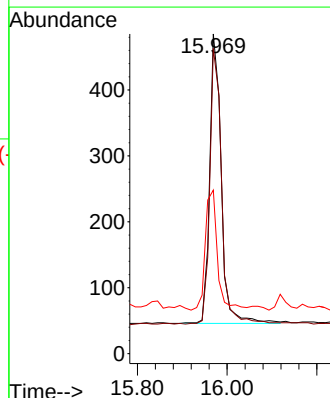
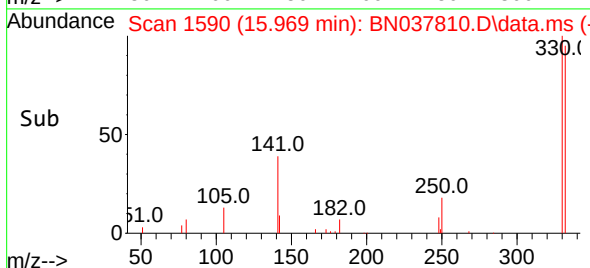
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025

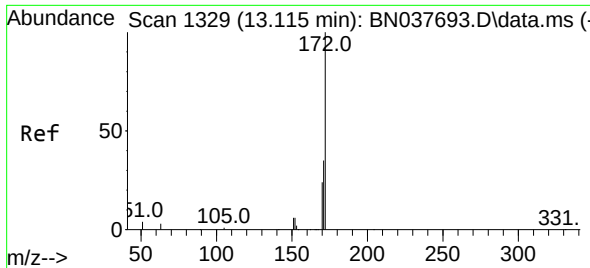


#14
2,4,6-Tribromophenol
Concen: 0.437 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27



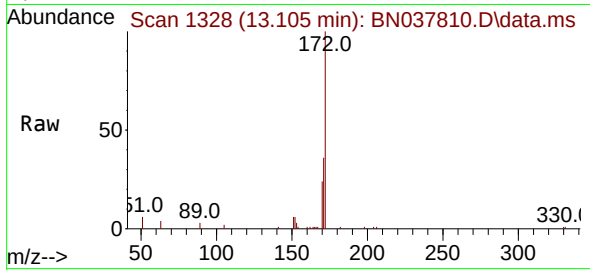
Tgt Ion:330 Resp: 782
Ion Ratio Lower Upper
330 100
332 96.8 75.3 112.9
141 43.5 35.0 52.4





#15
2-Fluorobiphenyl
Concen: 0.350 ng
RT: 13.105 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

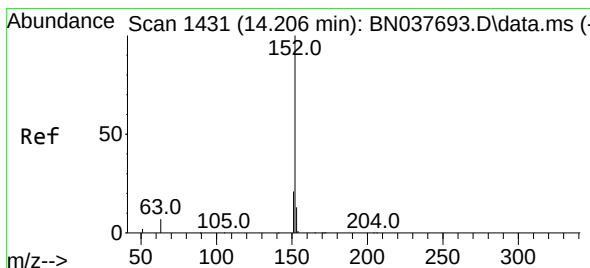
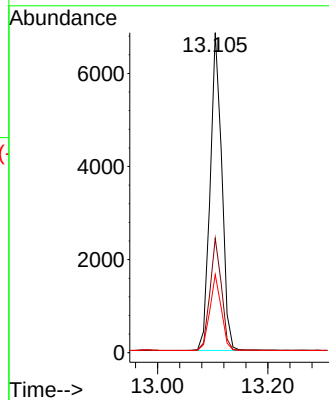
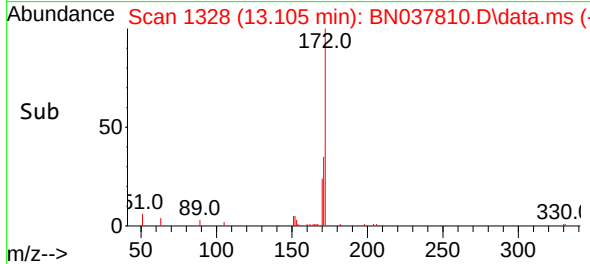
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD



Tgt Ion:172 Resp: 10028
Ion Ratio Lower Upper
172 100
171 35.7 28.6 43.0
170 24.4 19.8 29.8

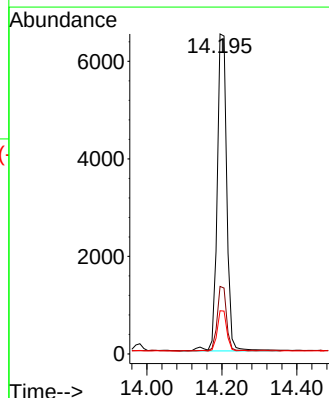
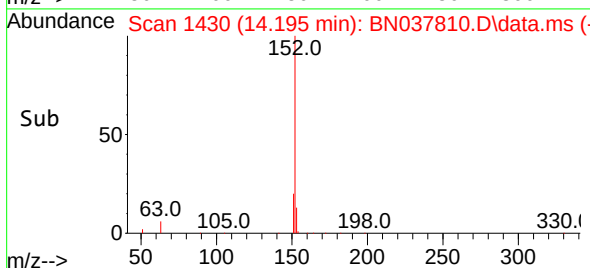
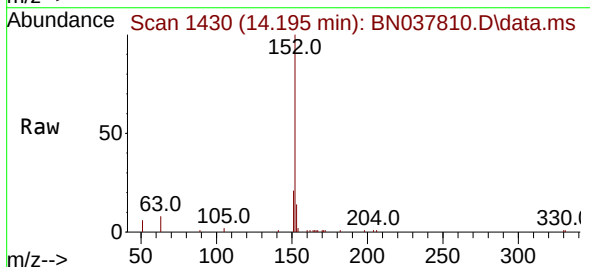
Manual Integrations
APPROVED

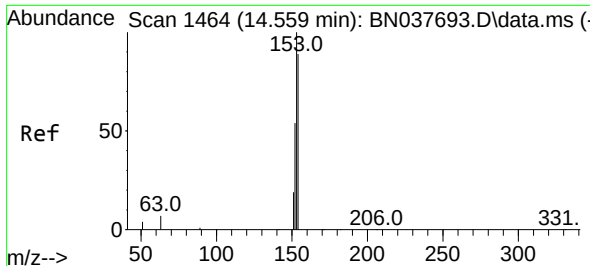
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#16
Acenaphthylene
Concen: 0.367 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.011 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

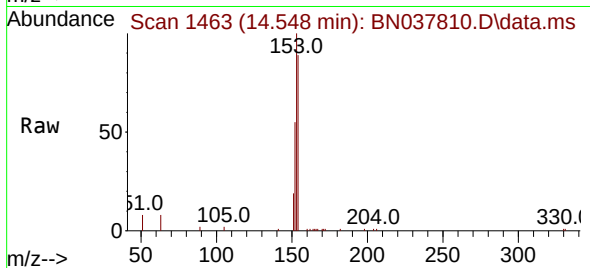
Tgt Ion:152 Resp: 11528
Ion Ratio Lower Upper
152 100
151 19.7 16.2 24.2
153 12.8 10.4 15.6





#17
Acenaphthene
Concen: 0.342 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

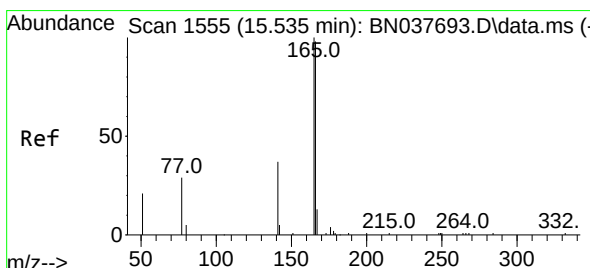
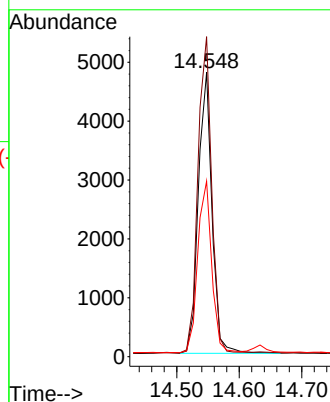
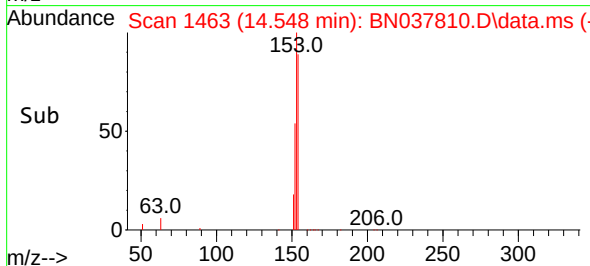
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD



Tgt Ion:154 Resp: 7272
Ion Ratio Lower Upper
154 100
153 113.0 89.8 134.8
152 62.0 50.2 75.2

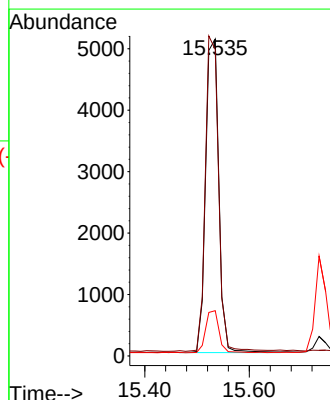
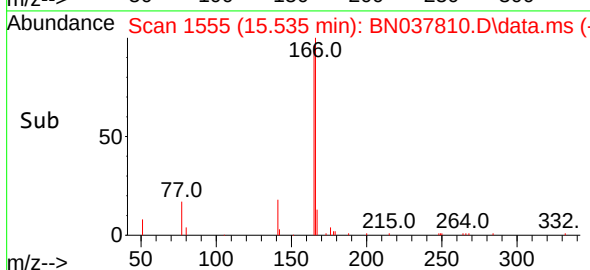
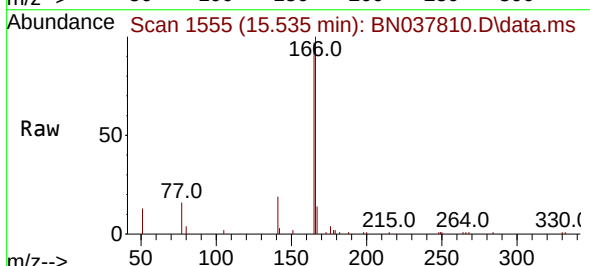
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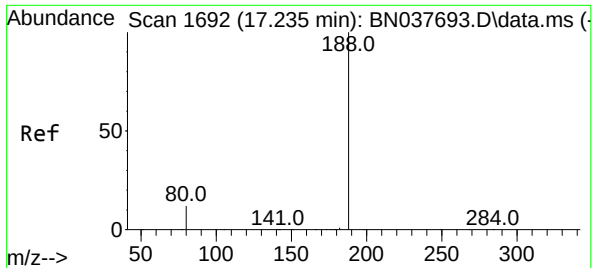
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#18
Fluorene
Concen: 0.336 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

Tgt Ion:166 Resp: 8661
Ion Ratio Lower Upper
166 100
165 98.4 79.6 119.4
167 13.6 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 11592

Delta R.T. -0.013 min

Lab File: BN037810.D

Acq: 19 Sep 2025 12:27

Instrument :

BNA_N

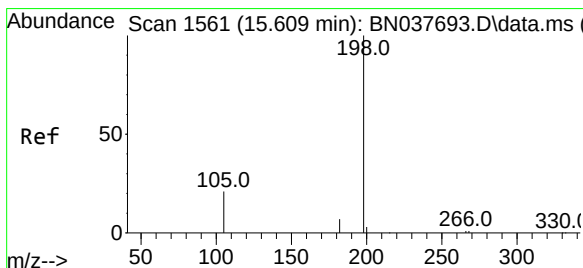
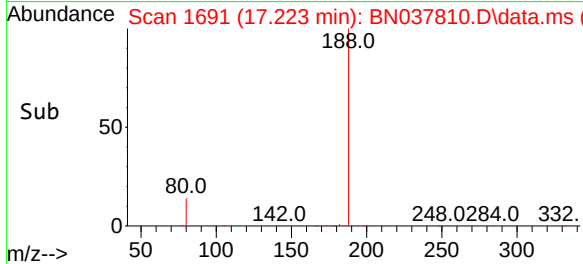
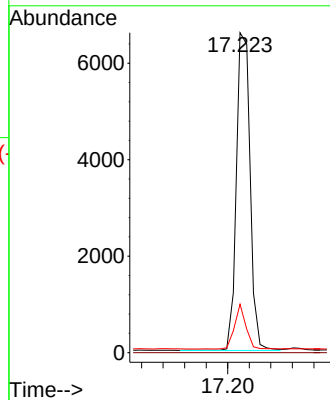
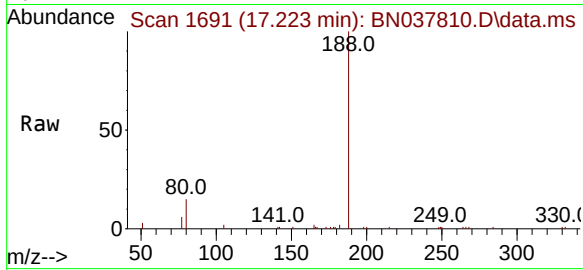
ClientSampleId :

TT119S1-20250916MSD

Tgt Ion:188	Resp:	11592
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	15.2	15.8

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Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.376 ng

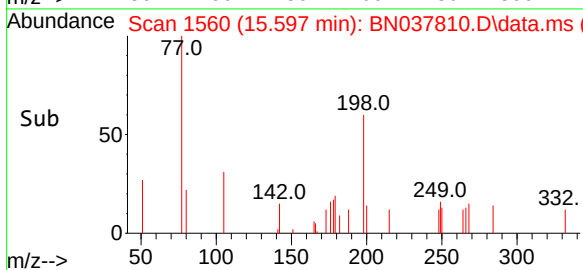
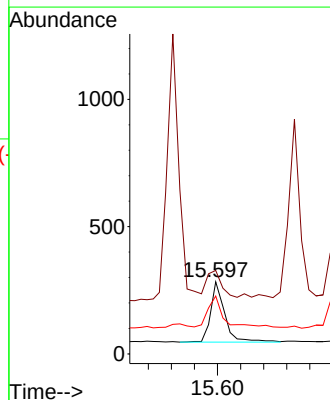
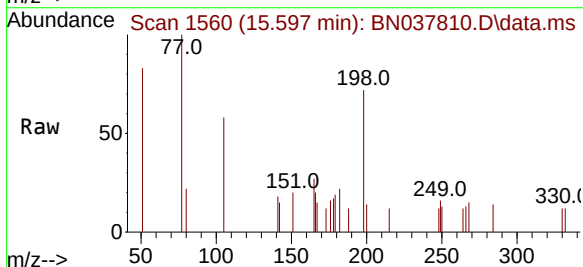
RT: 15.597 min Scan# 1560

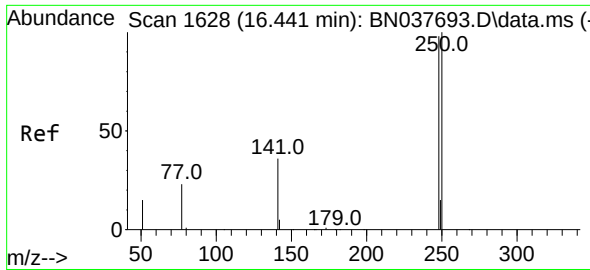
Delta R.T. -0.012 min

Lab File: BN037810.D

Acq: 19 Sep 2025 12:27

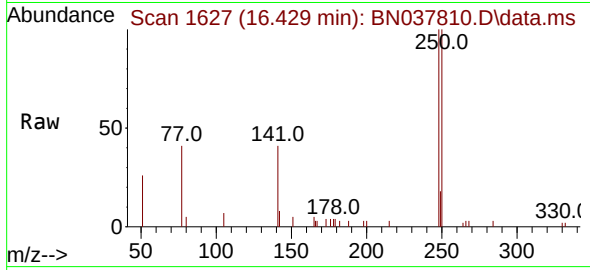
Tgt Ion:198	Resp:	404
Ion Ratio	Lower	Upper
198	100	
51	115.9	95.1
105	80.2	80.6





#21
4-Bromophenyl-phenylether
Concen: 0.369 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.013 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

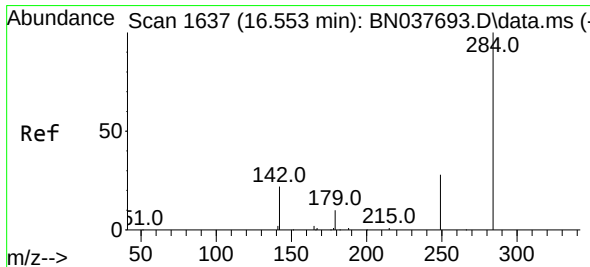
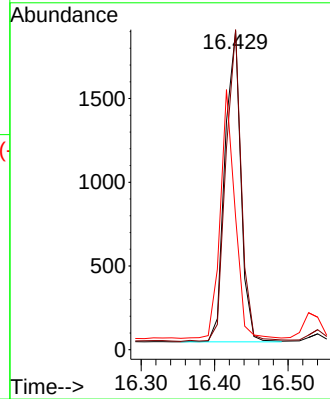
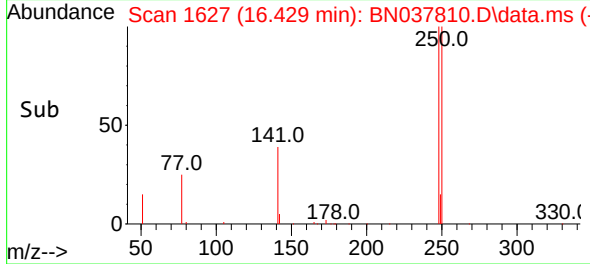
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD



Tgt Ion:248 Resp: 2790
Ion Ratio Lower Upper
248 100
250 100.5 81.5 122.3
141 41.7 30.8 46.2

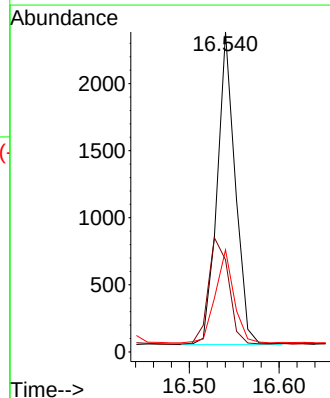
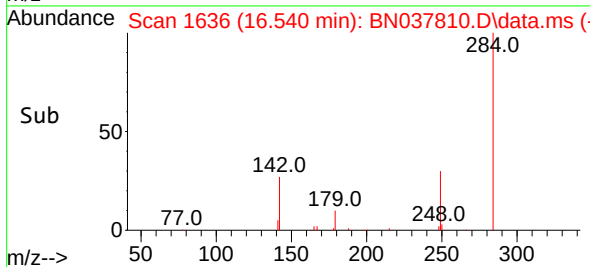
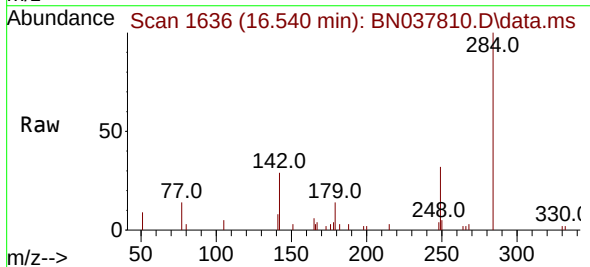
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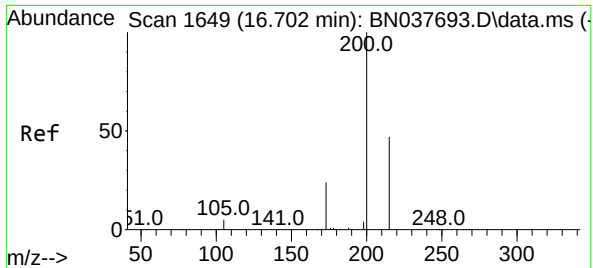
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#22
Hexachlorobenzene
Concen: 0.376 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

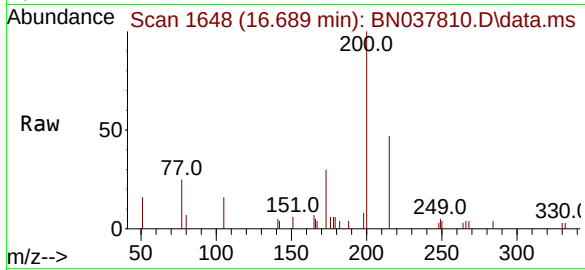
Tgt Ion:284 Resp: 3269
Ion Ratio Lower Upper
284 100
142 38.2 30.9 46.3
249 30.5 24.8 37.2





#23
Atrazine
Concen: 0.386 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.013 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

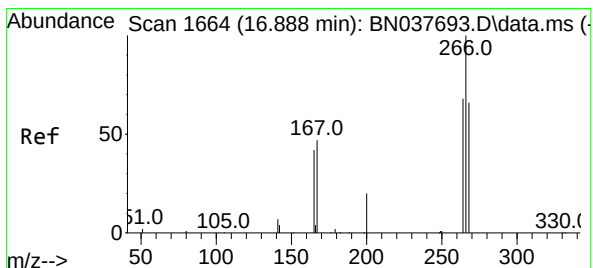
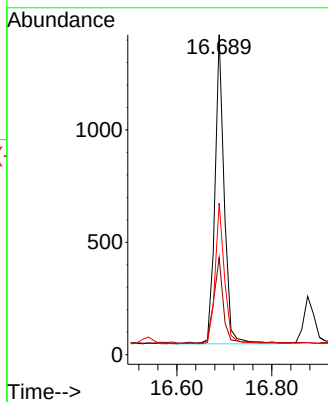
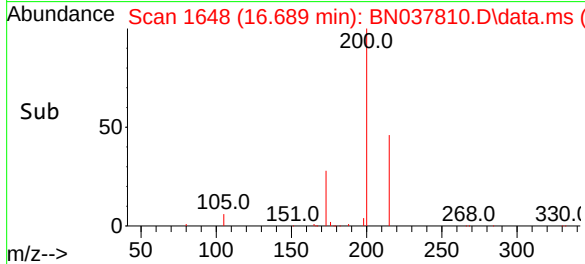
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD



Tgt Ion:200 Resp: 185
Ion Ratio Lower Upper
200 100
173 30.3 21.4 32.2
215 47.4 39.2 58.8

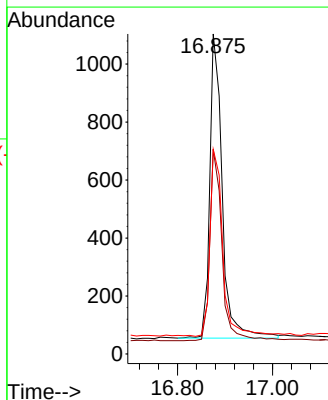
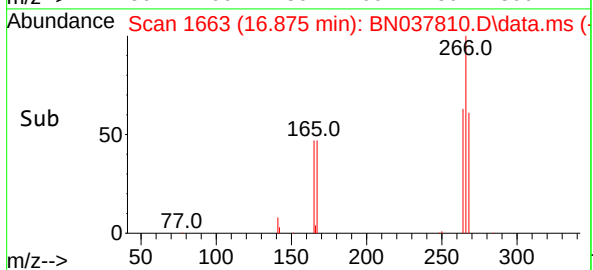
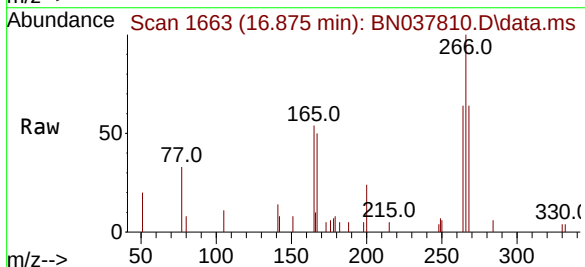
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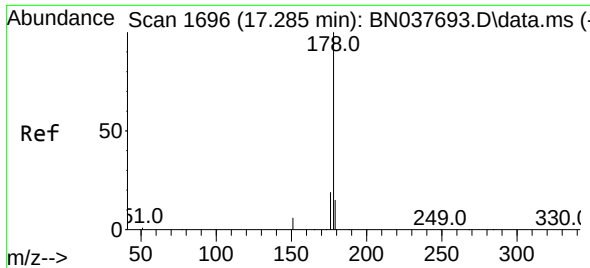
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#24
Pentachlorophenol
Concen: 0.755 ng
RT: 16.875 min Scan# 1663
Delta R.T. -0.013 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

Tgt Ion:266 Resp: 1907
Ion Ratio Lower Upper
266 100
264 61.6 51.6 77.4
268 63.3 53.2 79.8





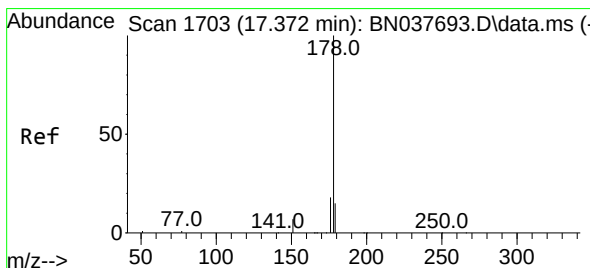
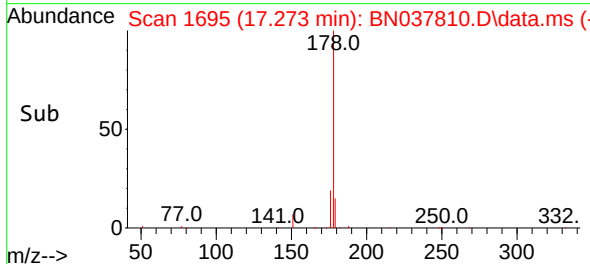
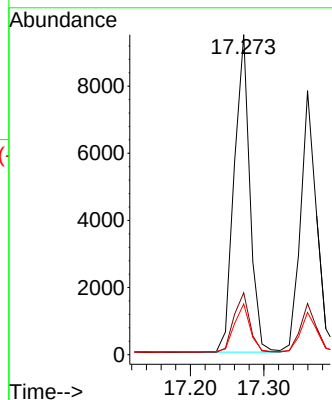
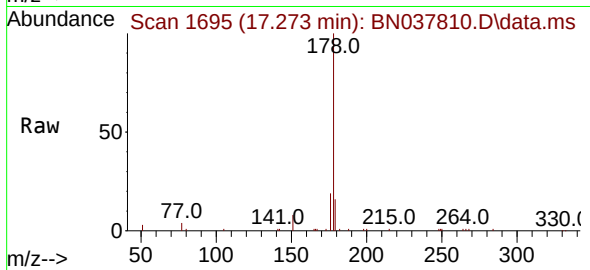
#25
Phenanthrene
Concen: 0.384 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.013 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD

Tgt Ion:178 Resp: 14009
Ion Ratio Lower Upper
178 100
176 19.3 15.3 22.9
179 15.4 12.2 18.2

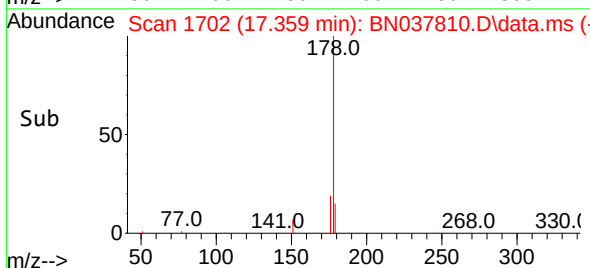
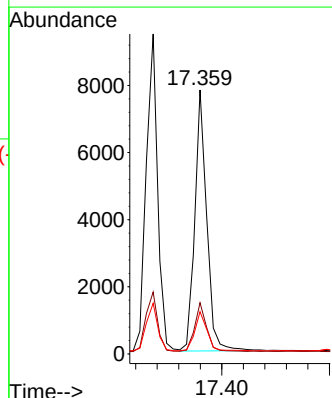
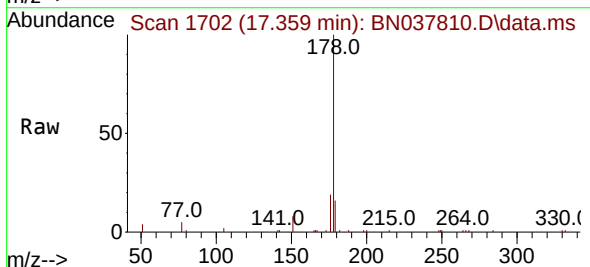
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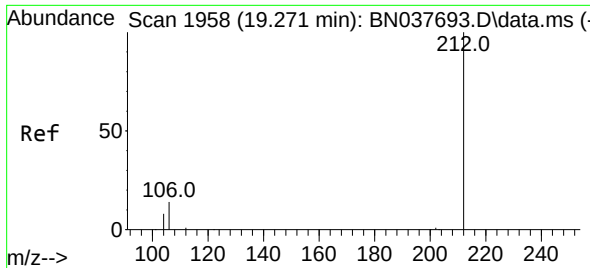
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#26
Anthracene
Concen: 0.371 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

Tgt Ion:178 Resp: 11991
Ion Ratio Lower Upper
178 100
176 18.7 14.6 22.0
179 15.4 12.2 18.4





#27

Fluoranthene-d10

Concen: 0.370 ng

RT: 19.262 min Scan# 1958

Delta R.T. -0.009 min

Lab File: BN037810.D

Acq: 19 Sep 2025 12:27

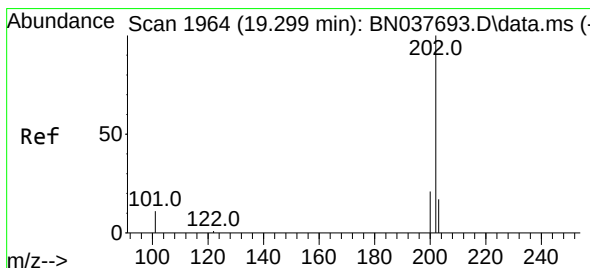
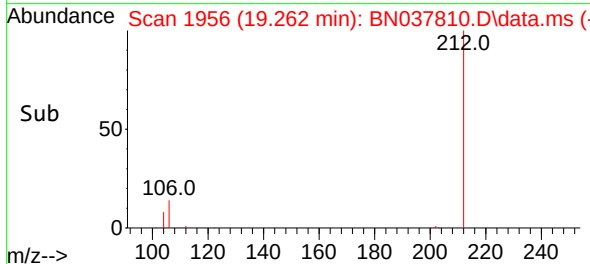
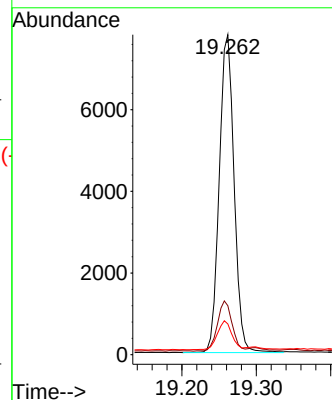
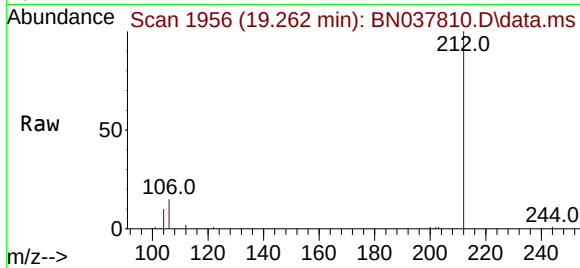
Instrument :

BNA_N

ClientSampleId :

TT119S1-20250916MSD

Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.5	12.2	18.2
104	9.0	6.9	10.3

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Supervised By :mohammad ahmed 09/23/2025

#28

Fluoranthene

Concen: 0.368 ng

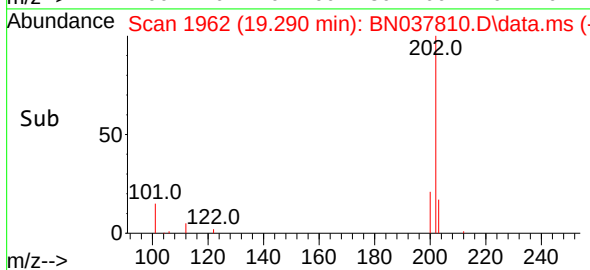
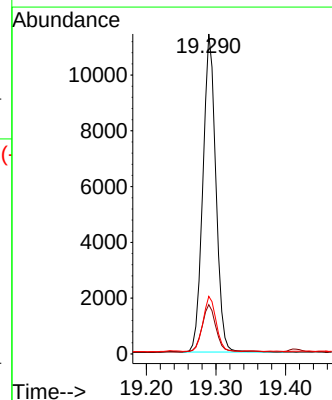
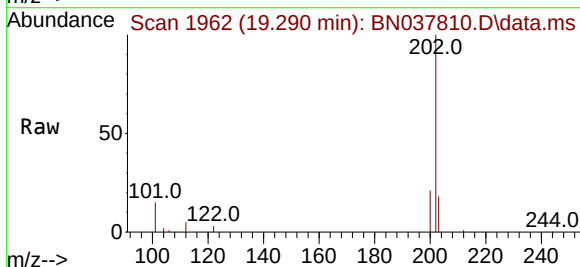
RT: 19.290 min Scan# 1962

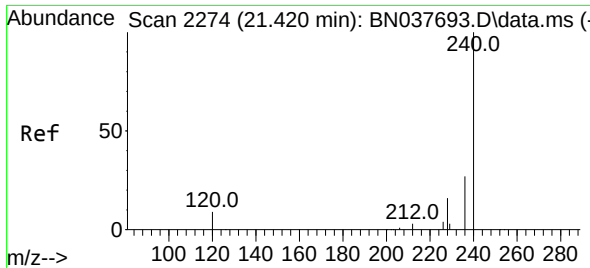
Delta R.T. -0.009 min

Lab File: BN037810.D

Acq: 19 Sep 2025 12:27

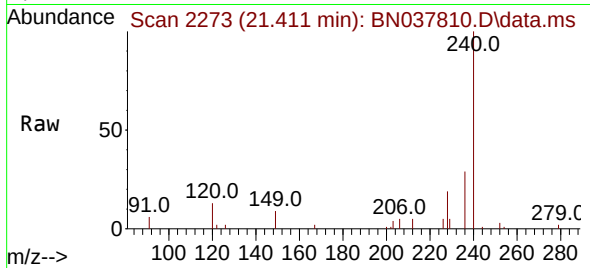
Tgt Ion	Ratio	Lower	Upper
202	100		
101	15.9	9.3	13.9
203	17.4	13.7	20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

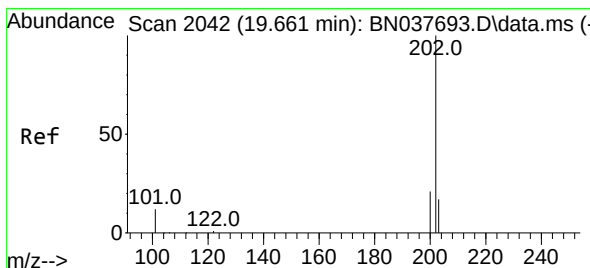
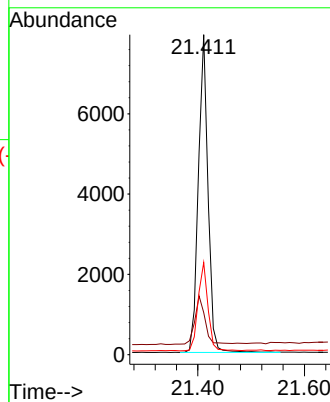
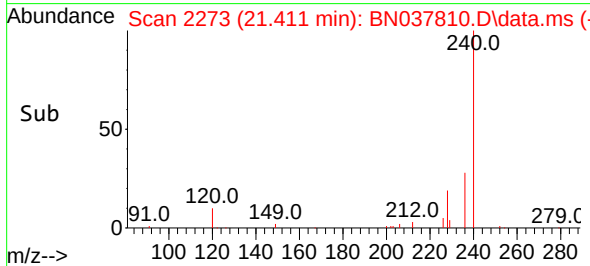
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD



Tgt Ion:240 Resp: 1000
Ion Ratio Lower Upper
240 100
120 13.1 9.2 13.8
236 28.8 22.6 33.8

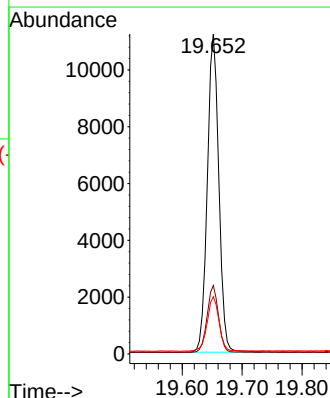
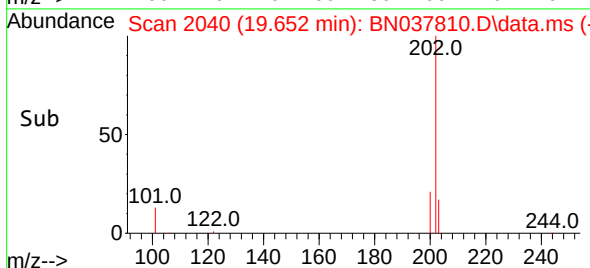
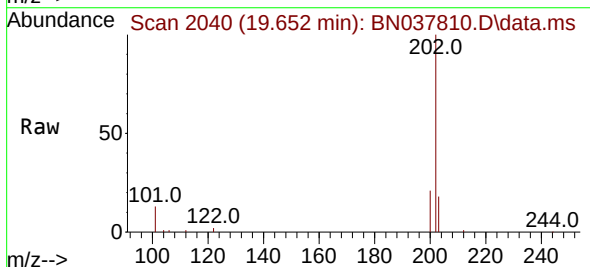
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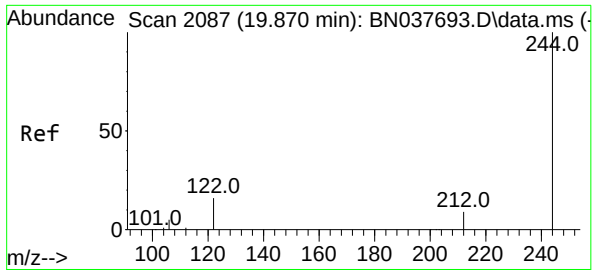
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#30
Pyrene
Concen: 0.382 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

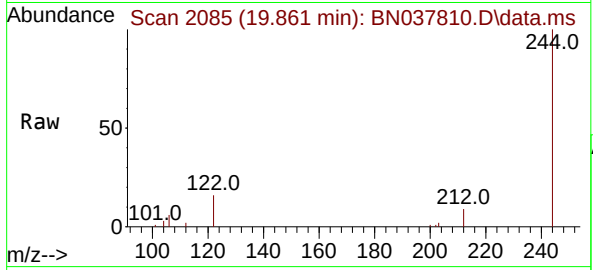
Tgt Ion:202 Resp: 14951
Ion Ratio Lower Upper
202 100
200 20.9 16.8 25.2
203 17.8 14.3 21.5





#31
Terphenyl-d14
Concen: 0.416 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

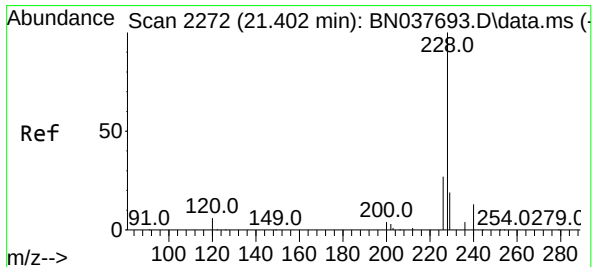
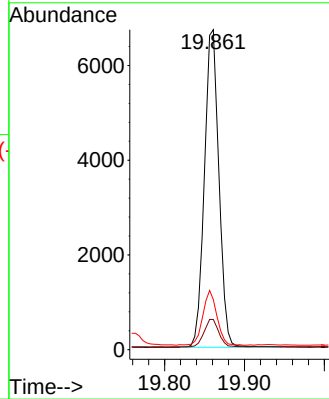
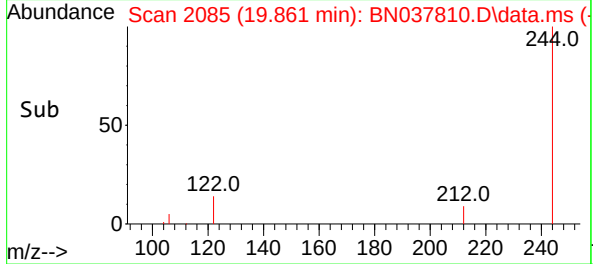
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD



Tgt Ion:244 Resp: 845
Ion Ratio Lower Upper
244 100
212 9.4 7.5 11.3
122 15.7 13.2 19.8

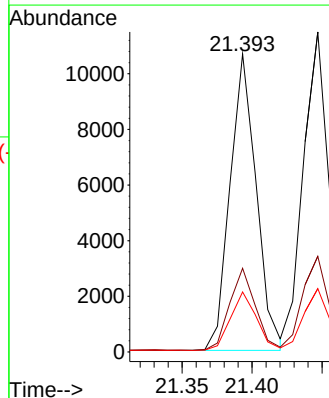
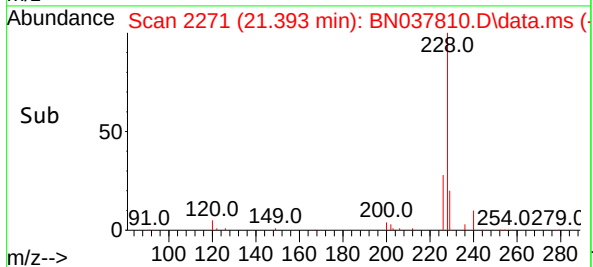
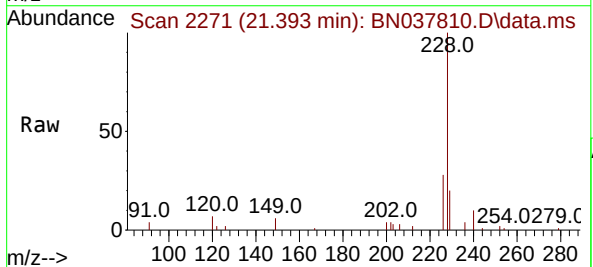
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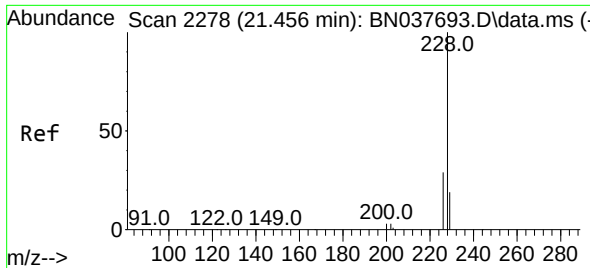
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#32
Benzo(a)anthracene
Concen: 0.399 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

Tgt Ion:228 Resp: 13905
Ion Ratio Lower Upper
228 100
226 28.1 22.2 33.2
229 20.1 15.8 23.6





#33

Chrysene

Concen: 0.399 ng

RT: 21.447 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037810.D

Acq: 19 Sep 2025 12:27

Instrument :

BNA_N

ClientSampleId :

TT119S1-20250916MSD

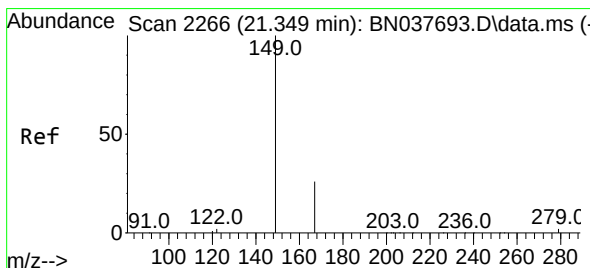
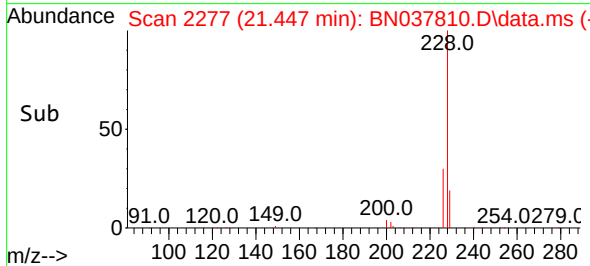
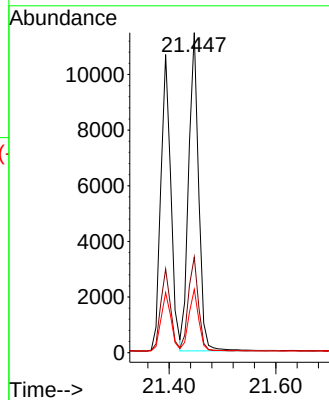
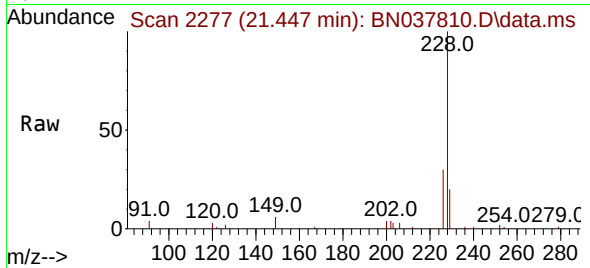
Tgt Ion:	228	Resp:	1491
Ion Ratio	Lower	Upper	
228	100		
226	29.9	23.5	35.3
229	19.8	15.9	23.9

Manual Integrations

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Reviewed By :Rahul Chavli 09/22/2025

Supervised By :mohammad ahmed 09/23/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.499 ng

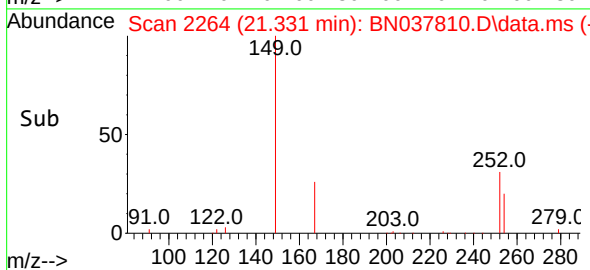
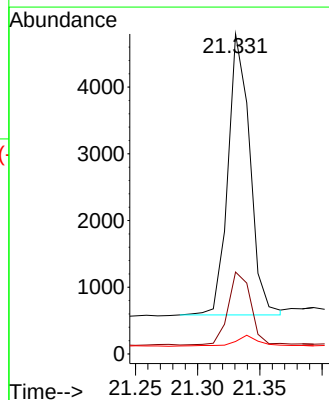
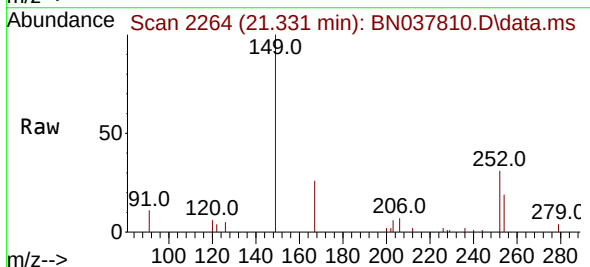
RT: 21.331 min Scan# 2264

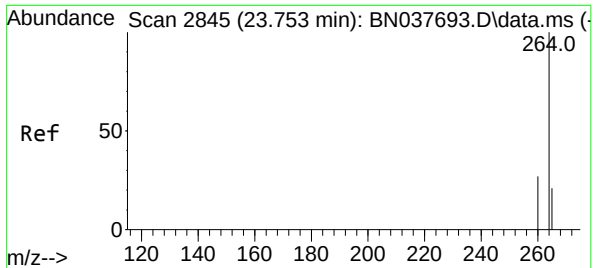
Delta R.T. -0.018 min

Lab File: BN037810.D

Acq: 19 Sep 2025 12:27

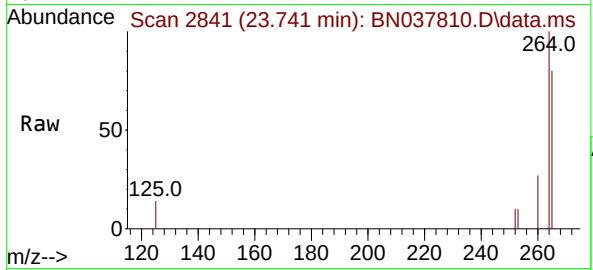
Tgt Ion:	149	Resp:	5161
Ion Ratio	Lower	Upper	
149	100		
167	27.2	20.8	31.2
279	4.0	3.3	4.9





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.741 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

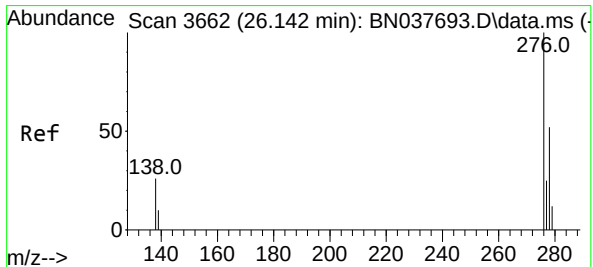
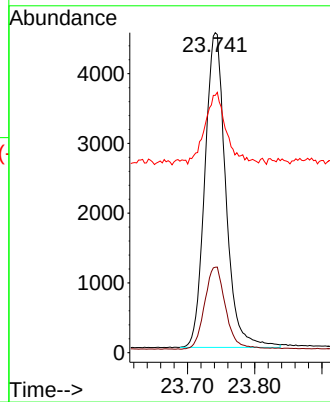
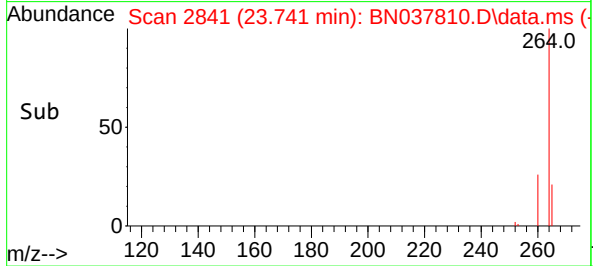
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD



Tgt Ion:264 Resp: 973
Ion Ratio Lower Upper
264 100
260 26.7 21.8 32.8
265 80.4 39.4 59.2

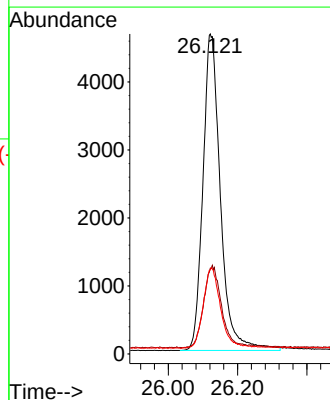
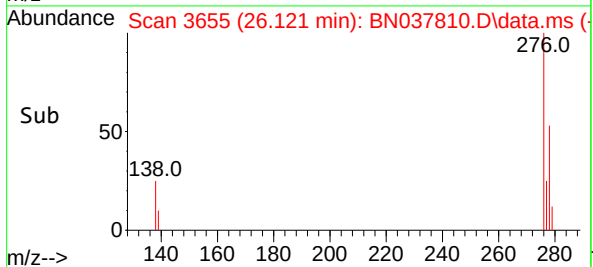
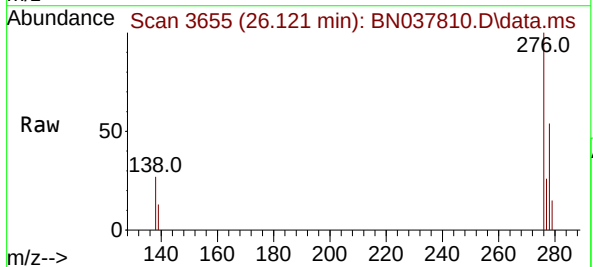
Manual Integrations
APPROVED

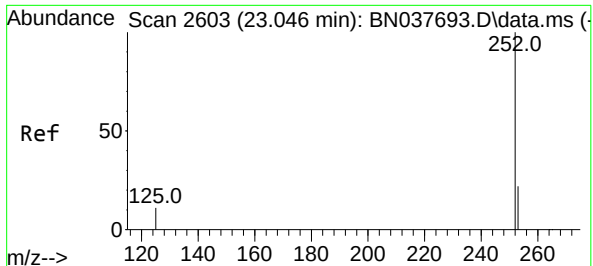
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.401 ng
RT: 26.121 min Scan# 3655
Delta R.T. -0.021 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

Tgt Ion:276 Resp: 16404
Ion Ratio Lower Upper
276 100
138 26.5 21.9 32.9
277 24.7 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.403 ng

RT: 23.037 min Scan# 2600

Delta R.T. -0.009 min

Lab File: BN037810.D

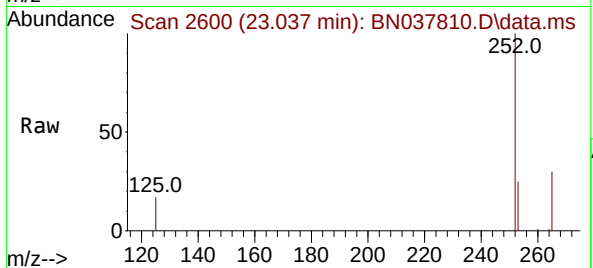
Acq: 19 Sep 2025 12:27

Instrument :

BNA_N

ClientSampleId :

TT119S1-20250916MSD



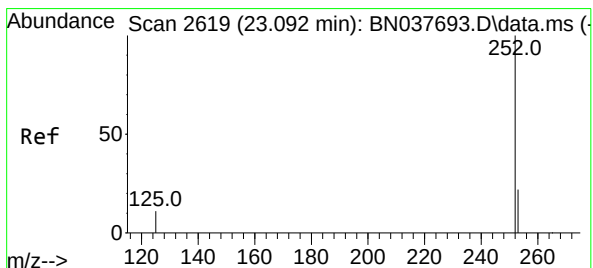
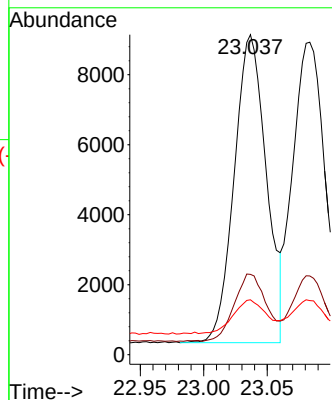
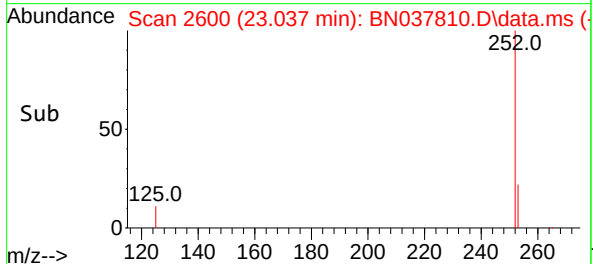
Tgt Ion:	252	Resp:	15470
Ion Ratio	Lower	Upper	
252	100		
253	25.1	19.4	29.2
125	17.1	11.2	16.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/22/2025

Supervised By :mohammad ahmed 09/23/2025



#38

Benzo(k)fluoranthene

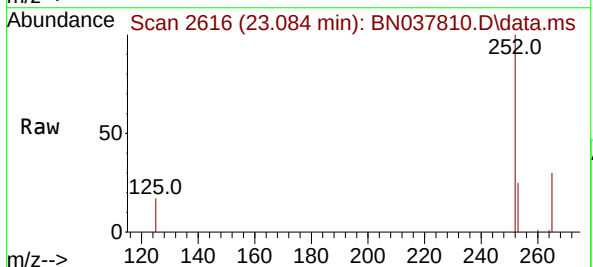
Concen: 0.401 ng

RT: 23.084 min Scan# 2616

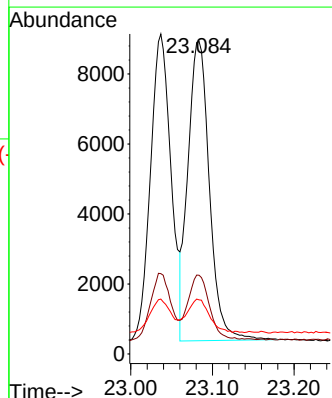
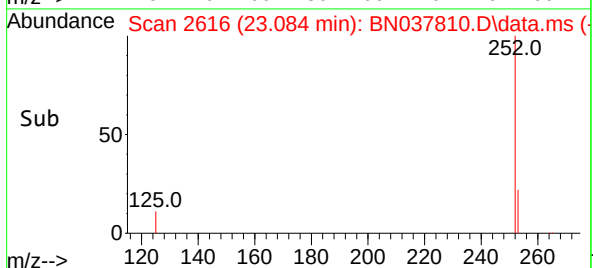
Delta R.T. -0.009 min

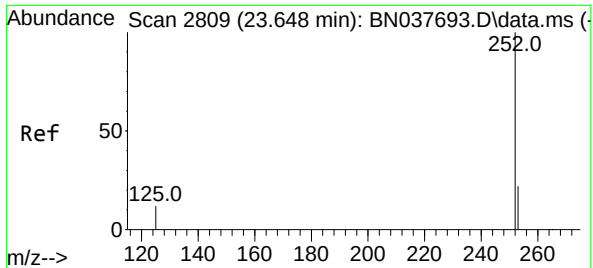
Lab File: BN037810.D

Acq: 19 Sep 2025 12:27



Tgt Ion:	252	Resp:	15665
Ion Ratio	Lower	Upper	
252	100		
253	25.2	19.4	29.0
125	17.3	11.6	17.4





#39

Benzo(a)pyrene

Concen: 0.402 ng

RT: 23.636 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037810.D

Acq: 19 Sep 2025 12:27

Instrument :

BNA_N

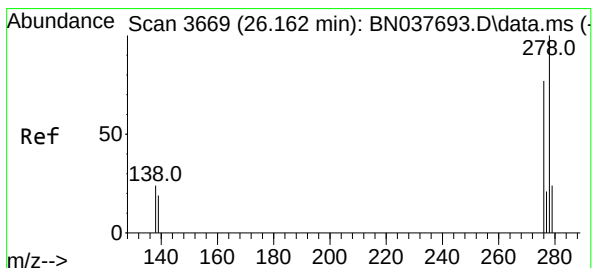
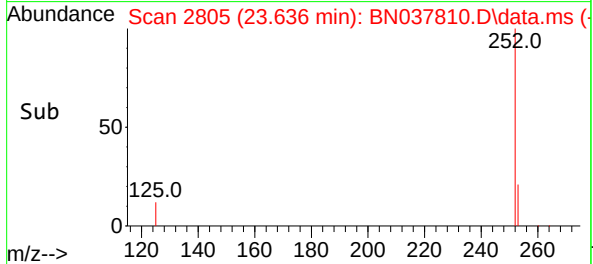
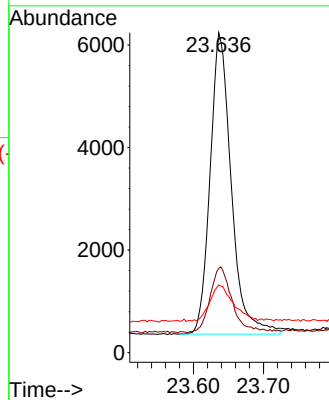
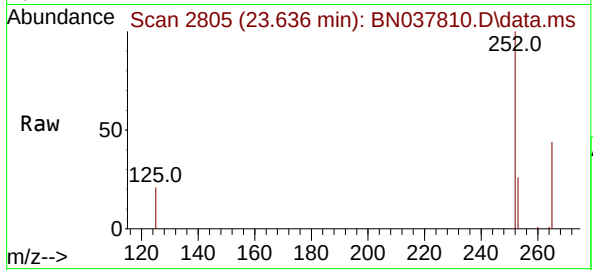
ClientSampleId :

TT119S1-20250916MSD

Tgt Ion:	252	Resp:	12334
Ion Ratio	Lower	Upper	
252	100		
253	26.3	20.8	31.2
125	21.2	13.9	20.9

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.398 ng

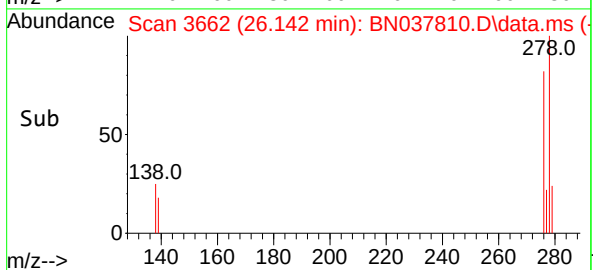
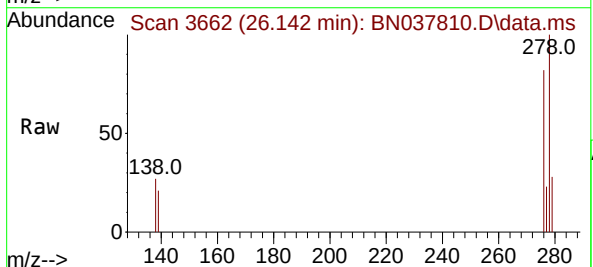
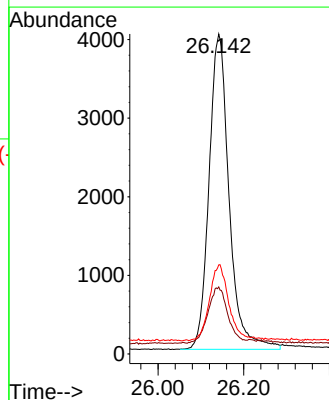
RT: 26.142 min Scan# 3662

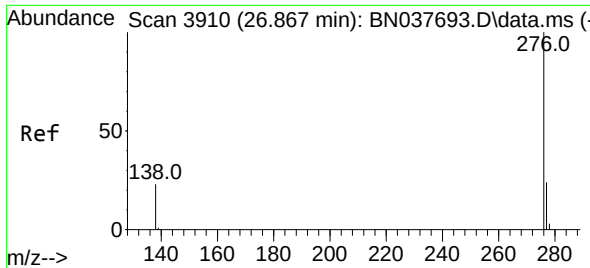
Delta R.T. -0.021 min

Lab File: BN037810.D

Acq: 19 Sep 2025 12:27

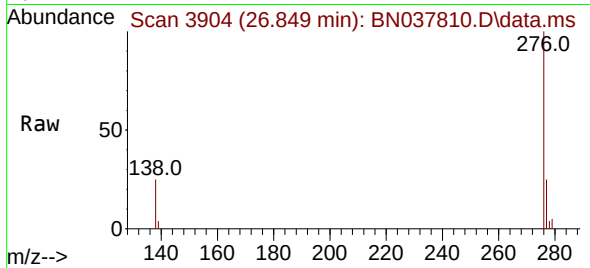
Tgt Ion:	278	Resp:	13012
Ion Ratio	Lower	Upper	
278	100		
139	21.0	17.8	26.6
279	27.8	22.0	33.0





#41
Benzo(g,h,i)perylene
Concen: 0.348 ng
RT: 26.849 min Scan# 3904
Delta R.T. -0.018 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

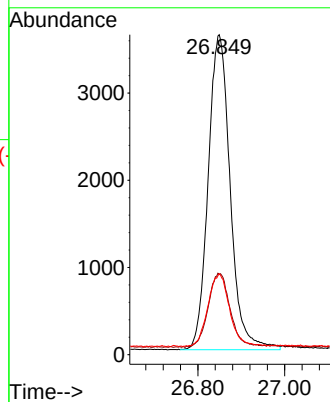
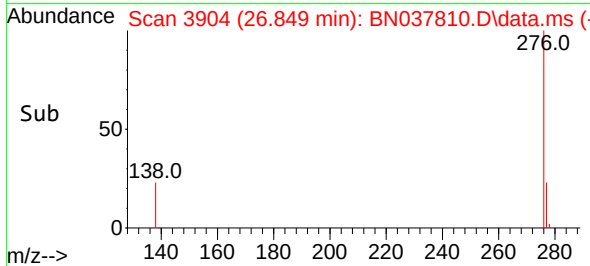
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD



Tgt Ion: 276 Resp: 1275
Ion Ratio Lower Upper
276 100
277 25.1 20.6 31.0
138 25.3 20.2 30.2

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 09/22/2025
Supervised By :mohammad ahmed 09/23/2025



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

Manual Integration Report

Sequence:

BN091825

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3127-14MS	BN037809.D	2-Methylnaphthalene-d1 0	Rahul	9/22/2025 8:45:58 AM	mohammad	9/23/2025 2:07:38 AM	Peak Integrated by Software
Q3127-15MSD	BN037810.D	2-Methylnaphthalene-d1 0	Rahul	9/22/2025 8:46:00 AM	mohammad	9/23/2025 2:07:38 AM	Peak Integrated by Software



Manual Integration Report

Sequence:	BN091925	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason



Manual Integration Report

Sequence:

BN092225

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 # 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/QCBatch ID # BN092225

Review By	Rahul	Review On	9/23/2025 8:32:53 AM
Supervise By	Jagrut	Supervise On	9/23/2025 10:21:18 AM
SubDirectory	BN092225	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	BN037848.D	22 Sep 2025 08:59	RC/JU	Ok
2	SSTDCCC0.4	BN037849.D	22 Sep 2025 10:19	RC/JU	Ok
3	PB169743BL	BN037850.D	22 Sep 2025 10:55	RC/JU	Ok
4	Q3097-24DL	BN037851.D	22 Sep 2025 11:31	RC/JU	Ok
5	Q3097-25DL	BN037852.D	22 Sep 2025 12:08	RC/JU	Ok
6	Q3127-02DL	BN037853.D	22 Sep 2025 12:44	RC/JU	Ok
7	Q3127-03DL	BN037854.D	22 Sep 2025 13:20	RC/JU	Ok
8	Q3127-04DL	BN037855.D	22 Sep 2025 13:56	RC/JU	Ok
9	Q3127-08DL	BN037856.D	22 Sep 2025 14:33	RC/JU	Ok
10	Q3127-16DL	BN037857.D	22 Sep 2025 15:09	RC/JU	Ok
11	Q3097-20DL	BN037858.D	22 Sep 2025 15:45	RC/JU	Ok
12	SSTDCCC0.4	BN037859.D	22 Sep 2025 16:39	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	SP6757
Initial Calibration Stds	SP6842, SP6843, SP6844, SP6845, SP6846, SP6847, SP6848
CCC	SP6846
Internal Standard/PEM	SP6830, 1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	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 # 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	

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

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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	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6830,1ul/100ul sample		
ICV/I.BLK	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	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	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	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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN092225

Review By	Rahul	Review On	9/23/2025 8:32:53 AM
Supervise By	Jagrut	Supervise On	9/23/2025 10:21:18 AM
SubDirectory	BN092225	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	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037848.D	22 Sep 2025 08:59		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037849.D	22 Sep 2025 10:19		RC/JU	Ok
3	PB169743BL	PB169743BL	BN037850.D	22 Sep 2025 10:55		RC/JU	Ok
4	Q3097-24DL	RE134D2-20250912DL	BN037851.D	22 Sep 2025 11:31		RC/JU	Ok
5	Q3097-25DL	RE134D3-20250912DL	BN037852.D	22 Sep 2025 12:08		RC/JU	Ok
6	Q3127-02DL	RE131D1-20250915DL	BN037853.D	22 Sep 2025 12:44		RC/JU	Ok
7	Q3127-03DL	RE131D2-20250915DL	BN037854.D	22 Sep 2025 13:20		RC/JU	Ok
8	Q3127-04DL	DUP07-20250915DL	BN037855.D	22 Sep 2025 13:56		RC/JU	Ok
9	Q3127-08DL	RE132D6-20250916DL	BN037856.D	22 Sep 2025 14:33		RC/JU	Ok
10	Q3127-16DL	TT101D2-20250915DL	BN037857.D	22 Sep 2025 15:09		RC/JU	Ok
11	Q3097-20DL	DUP06-20250912DL	BN037858.D	22 Sep 2025 15:45		RC/JU	Ok
12	SSTDCCC0.4	SSTDCCC0.4EC	BN037859.D	22 Sep 2025 16:39		RC/JU	Ok

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-21
Clean Up SOP #: N/A
Matrix : Water
Weigh By: N/A
Balance check: N/A
Balance ID: N/A
pH Strip Lot#: E3953
Extraction Method: ☒ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet
Extraction By: RJ
Filter By: RJ
pH Meter ID: N/A
Hood ID: 4,5,6,7
Extraction Start Date : 09/18/2025
Extraction Start Time : 11:35
Extraction End Date : 09/18/2025
Extraction End Time : 16:45
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	SP6870
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3973
Baked Na2SO4	N/A	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.

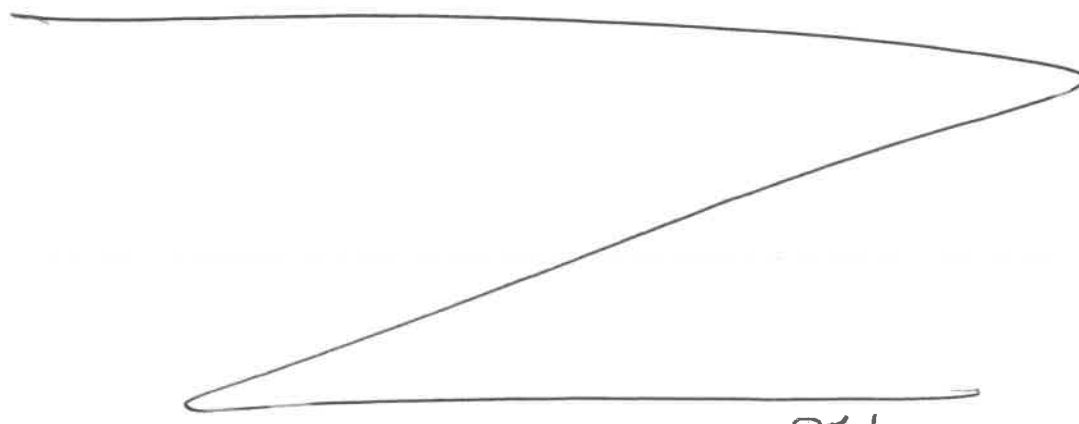
KD Bath ID: WATER BATH-1,2
KD Bath Temperature: 60 °C
Envap ID: NEVAP-02
Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
9/18/25	RJ (E3953-106)	R/SVOC
16:50	Preparation Group	Analysis Group

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

Concentration Date: 09/18/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169743BL	SBLK743	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1			SEP-1
PB169743BS	SLCS743	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1			2
Q3127-01	DUP08-20250915	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		3
Q3127-02	RE131D1-20250915	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		4
Q3127-03	RE131D2-20250915	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		5
Q3127-04	DUP07-20250915	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		6
Q3127-05	TT158I1-20250915	SVOC-SIMGrou p1	980	6	ritesh	Evelyn	1	C		7
Q3127-06	TT180D2-20250915	SVOC-SIMGrou p1	970	6	ritesh	Evelyn	1	C		8
Q3127-07	RE135D2-20250915	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		9
Q3127-08	RE132D6-20250916	SVOC-SIMGrou p1	980	6	ritesh	Evelyn	1	C		10
Q3127-09	TT101D2-20250915	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		11
Q3127-10	TT101D-20250915	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		12
Q3127-11	RE135D3-20250915	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		13
Q3127-12	RE132D7-20250916	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		14
Q3127-13	TT119S1-20250916	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		15
Q3127-14	Q3127-13MS	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		16
Q3127-15	Q3127-13MSD	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		SEP-1
Q3127-16	TT101D2-20250915	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		2
Q3127-18	BPOW1-8-20250917	SVOC-SIMGrou p1	990	6	ritesh	Evelyn	1	C		3
Q3127-19	BPOW1-7-20250917	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		4



RJ/9/18

* Extracts relinquished on the same date as received.

WORKLIST(Hardcopy Internal Chain)

WorkList Name: Q3127 WorkList ID: 191939 Department: Extraction Date: 09-18-2025 11:30:07

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3127-01	DUP08-20250915	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/15/2025	8270-Modified
Q3127-02	RE131D1-20250915	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/15/2025	8270-Modified
Q3127-03	RE131D2-20250915	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/15/2025	8270-Modified
Q3127-04	DUP07-20250915	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/15/2025	8270-Modified
Q3127-05	TT15811-20250915	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/15/2025	8270-Modified
Q3127-06	TT180D2-20250915	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/15/2025	8270-Modified
Q3127-07	RE135D2-20250915	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/15/2025	8270-Modified
Q3127-08	RE132D6-20250916	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/16/2025	8270-Modified
Q3127-09	TT101D2-20250915	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/15/2025	8270-Modified
Q3127-10	TT101D-20250915	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/15/2025	8270-Modified
Q3127-11	RE135D3-20250915	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/15/2025	8270-Modified
Q3127-12	RE132D7-20250916	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/16/2025	8270-Modified
Q3127-13	TT119S1-20250916	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/16/2025	8270-Modified
Q3127-14	Q3127-13MS	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/16/2025	8270-Modified
Q3127-15	Q3127-13MSD	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/16/2025	8270-Modified
Q3127-16	TT101D2-20250915	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/15/2025	8270-Modified
Q3127-18	BPOW1-8-20250917	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/17/2025	8270-Modified
Q3127-19	BPOW1-7-20250917	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/17/2025	8270-Modified

Date/Time 09/18/25 11:30
Raw Sample Received by: RS (Est-1ceb)
Raw Sample Relinquished by: RS (WOC)

Date/Time 09/18/25 12:00
Raw Sample Received by: RS (WOC)
Raw Sample Relinquished by: RS (Est-1ceb)

Prep Standard - Chemical Standard Summary

Order ID : Q3127
Test : SVOC-SIMGroup1
Prepbatch ID : PB169743,
Sequence ID/Qc Batch ID: BN091825,BN091925,BN092225,

Standard ID :
EP2609,EP2610,EP2639,SP6757,SP6830,SP6841,SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848,SP6853,SP6854,SP6855,SP6870,

Chemical ID :
1ul/100ul
sample,E3657,E3875,E3904,E3932,E3942,E3943,E3965,E3973,M6157,S10105,S 11073,S11496,S11652,S11807,S11828,S12115,S12197,S12220,S12273,S12498,S12499,S12552,S12577,S12670,S12986,S13058,W3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2609	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel

(EX-SC-2)

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2610	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel

(EX-SC-2)

FROM 1000.00000ml of M6157 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2639	09/12/2025	01/28/2026	Riteshkumar Patel	Extraction_SC ALE_2 (EX-SC-2)	None	Evelyn Huang 09/12/2025

FROM 4000.00000gram of E3875 = Final Quantity: 4000.000 gram

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTTP 8270E	SP6757	03/31/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay 04/01/2025

FROM 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6830	06/17/2025	12/13/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/19/2025

FROM 0.10000ml of S12670 + 4.90000ml of E3942 = Final Quantity: 5.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3339	8270 sim calibration stock 10ppm (CPI)	SP6841	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.03350ml of S10105 + 0.05000ml of S11496 + 0.12500ml of S11828 + 0.12500ml of S12115 + 0.25000ml of S12273 + 0.25000ml of S13058 + 24.16650ml of E3943 = Final Quantity: 25.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6842	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.50000ml of E3943 + 0.01000ml of SP6830 + 0.50000ml of SP6841 = Final Quantity: 1.010 ml

<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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	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

<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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	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

<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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6848	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.75000ml of E3943 + 0.01000ml of SP6830 + 0.25000ml of SP6846 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6853	07/02/2025	09/30/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								07/08/2025

FROM SOURCE
0.00630ml of S12197 + 0.01280ml of S12220 + 0.03200ml of S11073 + 0.03200ml of S11828 + 0.06400ml of S12499 +
0.06400ml of S12552 + 0.06400ml of S12986 + 19.72490ml of E3943 = Final Quantity: 20.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6854	07/02/2025	09/30/2025	Jagrut Upadhyay	None	None	Rahul Chavli
SOURCE FROM 0.87500ml of E3943 + 0.01000ml of SP6830 + 0.12500ml of SP6853 = Final Quantity: 1.010 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6855	07/30/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay
FROM 0.00080ml of S11652 + 0.01000ml of S11807 + 0.02000ml of S12498 + 0.02000ml of S12552 + 0.02000ml of S12986 + 49.92920ml of E3932 = Final Quantity: 50.000 ml								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3491	8270-SIM-Surrogate 0.4 PPM	SP6870	09/16/2025	12/09/2025	Jagrut Upadhyay	None	None	Rahul Chavli
FROM 0.00400ml of S12197 + 0.00800ml of S12220 + 0.02000ml of S11828 + 99.96800ml of E3965 = Final Quantity: 100.000 ml								

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CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	417203	01/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	01/07/2026	03/13/2025 / RUPESH	12/27/2024 / RUPESH	E3904

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	11/05/2025	05/05/2025 / RUPESH	04/23/2025 / RUPESH	E3932

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3942

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3943

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	05/24/2027	08/22/2025 / RUPESH	08/20/2025 / RUPESH	E3965

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	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12197

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0206381	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12220

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	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]

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	09/30/2025	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 / lwona	07/03/2024 / lwona	W3112



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**
Z-112090 440246 $\leq -10^{\circ}\text{C}$ Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: _____

Erica Castiglione
Chemist



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
02/08/23

b1
CG

S 11071
to
S 11075

Catalog No. : 31853 Lot No.: A0187043
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2027 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,4-Dioxane CAS # 123-91-1 Purity 99% (Lot SHBN5929)	2,019.0 µg/mL	+/- 11.8486 µg/mL Gravimetric +/- 43.2570 µg/mL Unstressed +/- 44.5129 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

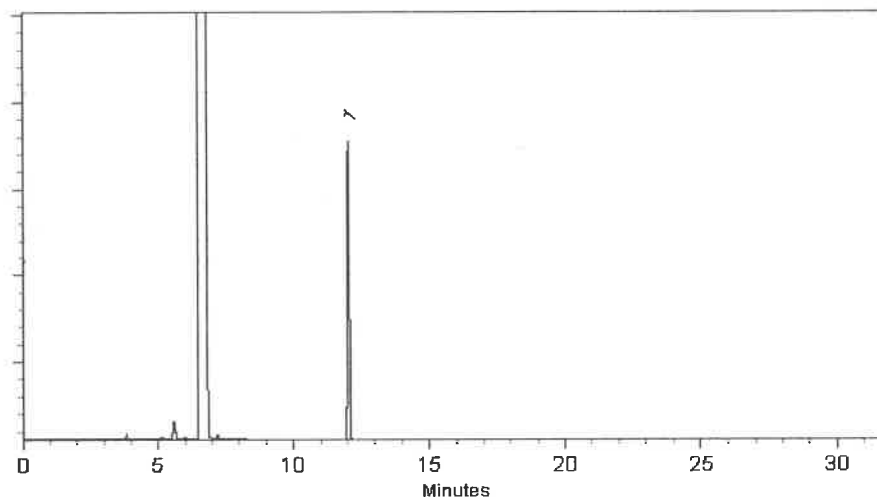
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantors™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	<= 0.3	0.2
Titration Base (μeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Rec on 8/20/25

E3965

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



Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	$\leq 0.005 \%$	$< 0.005 \%$	PASS
Chloride	$\leq 0.005 \%$	0.002 %	PASS
Heavy Metals	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Iron	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Magnesium	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Mercury	$\leq 0.1 \text{ ppm}$	$< 0.1 \text{ ppm}$	PASS
Nickel	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Nitrogen Compounds	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Phosphate	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Potassium	$\leq 0.02 \%$	$< 0.02 \%$	PASS
Purity	$\geq 97.0 \%$	99.2 %	PASS
Sodium Carbonate	$\leq 1.0 \%$	0.5 %	PASS
Sulfate	$\leq 0.003 \%$	$< 0.003 \%$	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

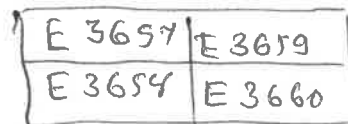
This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.





**PRODUCTOS
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MONTERREY, 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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25A2862010
Manufactured Date: 2024-12-18
Expiration Date: 2026-03-19
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μ eq/g)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	<0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3942

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4

Batch No.: 25A2862010

Manufactured Date: 2024-12-18

Expiration Date: 2026-03-19

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	<0.01%

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3942

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantortm



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

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™



MG157
MS

Material No.: 9673-33

Batch No.: 24I1262013

Manufactured Date: 2024-08-07

Retest Date: 2029-08-06

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H ₂ SO ₄)	95.0 – 98.0 %	96.2 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	<1 ppm
ACS – Substances Reducing Permanganate(as SO ₂)	<= 2 ppm	<2 ppm
Ammonium (NH ₄)	<= 1 ppm	<1 ppm
Chloride (Cl)	<= 0.1 ppm	<0.1 ppm
Nitrate (NO ₃)	<= 0.2 ppm	0.1 ppm
Phosphate (PO ₄)	<= 0.5 ppm	<0.1 ppm
Trace Impurities – Aluminum (Al)	<= 30.0 ppb	<5.0 ppb
Arsenic & Antimony (as As)	<= 4.0 ppb	<2.0 ppb
Trace Impurities – Boron (B)	<= 10.0 ppb	<5.0 ppb
Trace Impurities – Cadmium (Cd)	<= 2.0 ppb	<1.0 ppb
Trace Impurities – Chromium (Cr)	<= 6.0 ppb	<1.0 ppb
Trace Impurities – Cobalt (Co)	<= 0.5 ppb	<0.3 ppb
Trace Impurities – Copper (Cu)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Gold (Au)	<= 10.0 ppb	<5.0 ppb
Heavy Metals (as Pb)	<= 500.0 ppb	<100.0 ppb
Trace Impurities – Iron (Fe)	<= 50.0 ppb	<1.0 ppb
Trace Impurities – Lead (Pb)	<= 0.5 ppb	<0.5 ppb
Trace Impurities – Magnesium (Mg)	<= 7.0 ppb	<1.0 ppb
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	<0.1 ppb
Trace Impurities – Nickel (Ni)	<= 2.0 ppb	<0.3 ppb
Trace Impurities – Potassium (K)	<= 500.0 ppb	<10.0 ppb
Trace Impurities – Selenium (Se)	<= 50.0 ppb	7.2 ppb
Trace Impurities – Silicon (Si)	<= 100.0 ppb	12.8 ppb
Trace Impurities – Silver (Ag)	<= 1.0 ppb	<1.0 ppb

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

 **avantors**™



Material No.: 9673-33

Batch No.: 24I1262013

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 5.0 ppb	< 1.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	1.1 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	< 1.0 ppb

For Laboratory, Research, or Manufacturing Use

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak

Director Quality Operations, Bioscience Production



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓
511498 } 08/11/2023

*Not a certified value

Certified By: _____

Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** A0201728

Description : Custom Pentachlorophenol Standard
Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

511649
↓
511658 } Y.P.
11/13/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023

Balance: B251644995

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** 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:

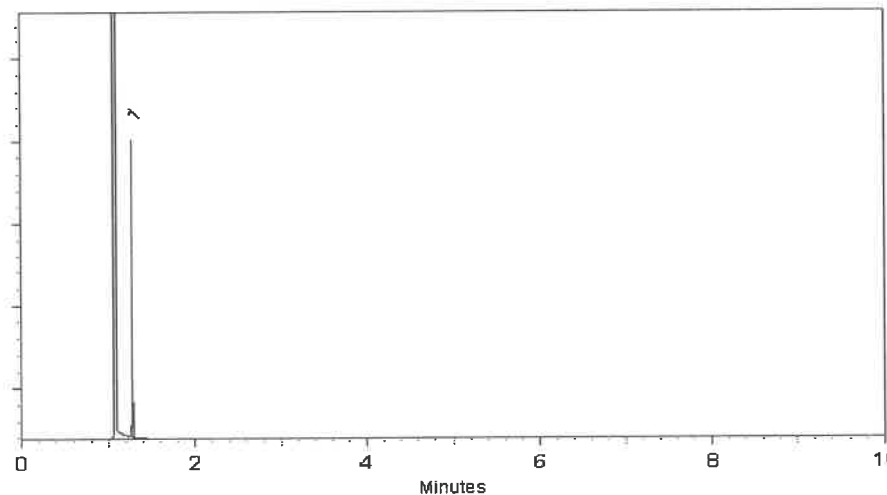
FID

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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0201976
Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

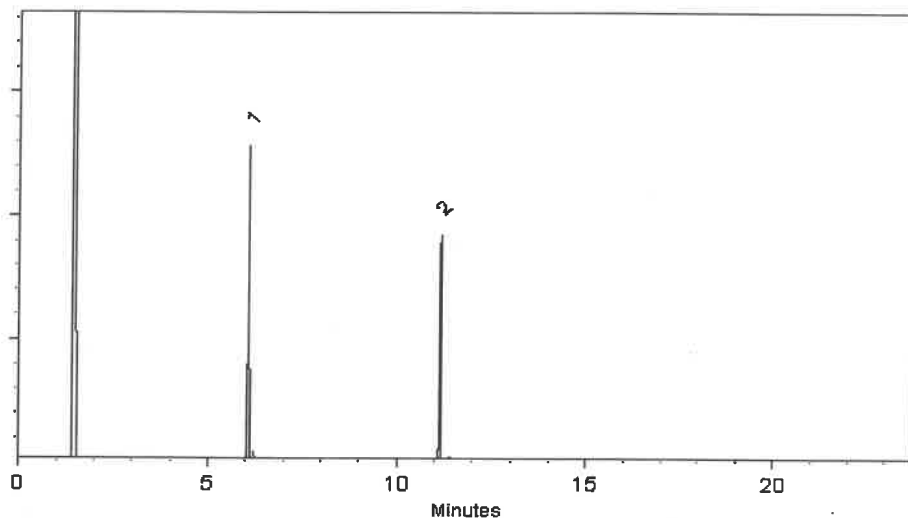
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

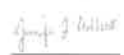


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Date Received: _____

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Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓ } 03/18/24
512206 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

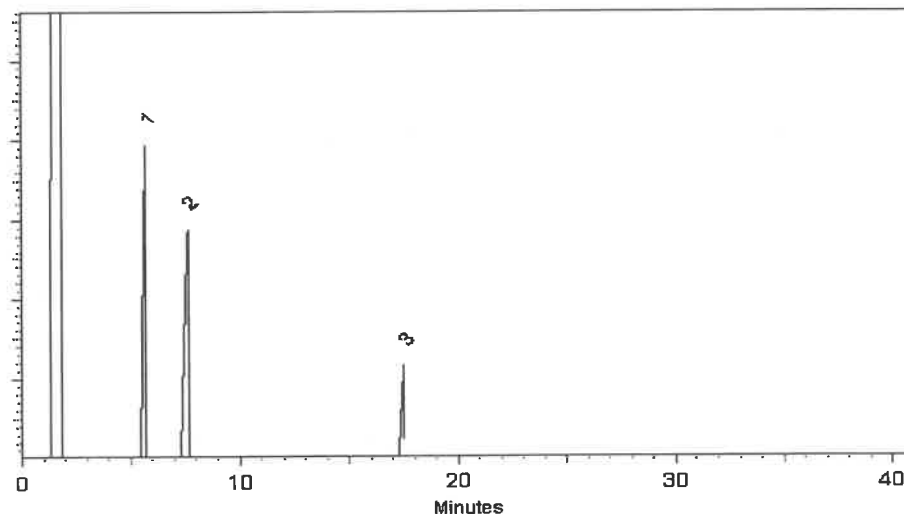
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope A. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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CERTIFIED REFERENCE MATERIAL

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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. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

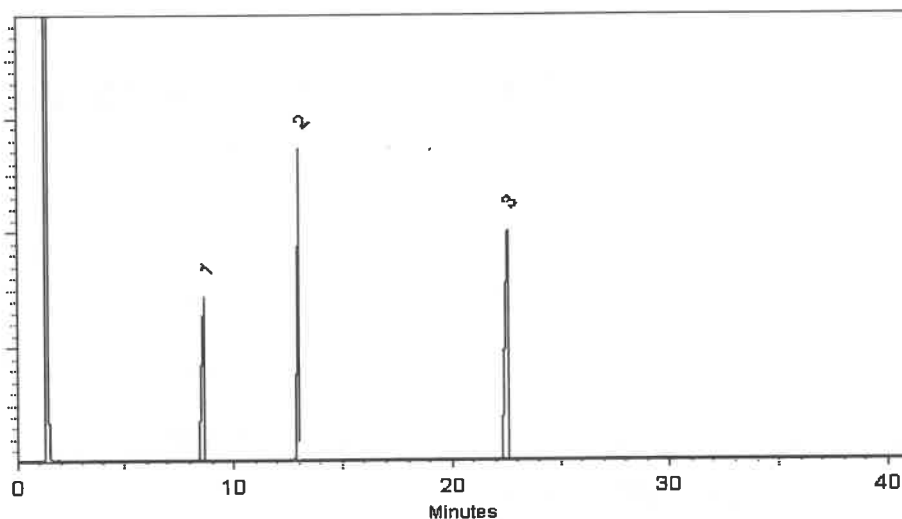
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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by TUV USA to ISO 9001:2015

Date Received: _____

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Rev 0

Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.

Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value

Kerry E Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31615 **Lot No.:** A0212955

Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2027 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 µg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 µg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 µg/mL	+/- 44.6922

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12577 } RC
↓
S12579 } 8/2/24

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

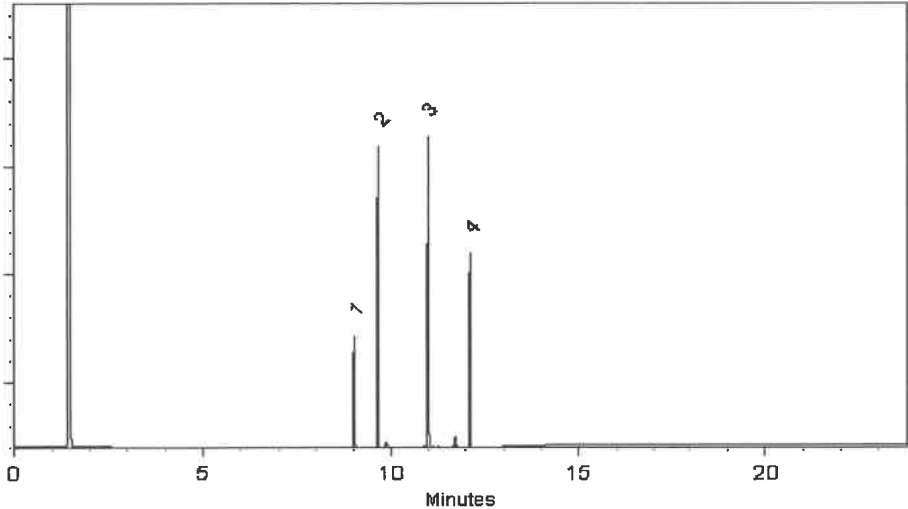
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

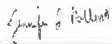
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024 Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645
↓
S12674 } AC
10/1/24



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963
↓
S12992 } AC
12/17/20

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCKK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCKK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCKK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.



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

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

- 1
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- 17
- 18

CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:

COMPANY: Resolution Consultants
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: Eleanor Vivadou
PHONE: FAX:

PROJECT NAME: NWIRP Bethpage
PROJECT NO.: 60731872 LOCATION: Bethpage, NY
PROJECT MANAGER: Eleanor Vivadou
e-mail: eleanor.vivadou@aecom.com
PHONE: FAX:

BILL TO: Eleanor Vivadou 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

1. VOCs 8260
2. 1,4 dioxane 8270510
3. 4. 5. 6. 7. 8. 9.

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.	DUP 8-20250915	GW		X	9/15	1130	3	2	1										
2.	RE131D1-20250915	GW		X	9/15	0955	3	2	1										
3.	RE131D2-20250915	GW		X	9/15	1110	3	2	1										
4.	DUP 7-20250915	GW		X	9/15	1020	3	2	1										
5.	TT158I1-20250915	GW		X	9/15	1045	3	2	1										
6.	TT180D2-20250915	GW		X	9/15	1215	3	2	1										
7.	RE135D2-20250915	GW		X	9/15	1440	3	2	1										
8.	RE132D6-20250916	GW		X	9/16	1455	3	2	1										
9.	TT101D2-20250915	GW		X	9/15	1140	3	2	1										
10.	TT101D-20250915	GW		X	9/15	1050	3	2	1										

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <u>Josh Lawton</u>	DATE/TIME: <u>1300</u> <u>9-17-25</u>	RECEIVED BY: <u>[Signature]</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>28</u> °C
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY:	Comments:
RELINQUISHED BY SAMPLER: 3.	DATE/TIME: <u>1620</u> <u>9-17-25</u>	RECEIVED BY:	

Page 1 of 4 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 Vivadou

PHONE: FAX:

PROJECT NAME: NWLRP Bethpage

PROJECT NO.: 60731872 LOCATION: Bethpage, NY

PROJECT MANAGER: Eleanor Vivadou

e-mail: eleanor.vivadou@aecom.com

PHONE: FAX:

BILL TO: Eleanor Vivadou 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

VOCs 8260
1,4 dioxane 8270

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.	RE135D3-20250915	GW		X	9/15	1435	3	2	1								
2.	RE132D7-20250916	GW		X	9/16	1500	3	2	1								
3.	TT119S1-20250916	GW		X	9/16	1510	9	6	3								ms/msd
4.	TT101D1-20250915	GW		X	9/15	1125	3	2	1								
5.	TB06-20250912	Aq			9/12	N/A	2	2									QA/QC TBs
6.	TB07-20250912	Aq			9/12	N/A	2	2									QA/QC TBs
7.	BROW1-8-20250917	GW		X	9/17	1200	3	2	1								
8.	BROW1-7-20250917	GW		X	9/17	1055	3	2	1								
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <u>Josh Lawton</u>	DATE/TIME: <u>9-17-25</u>	RECEIVED BY: <u>[Signature]</u> <u>1360</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>2.8</u> °C
RELINQUISHED BY SAMPLER: 2. <u>[Signature]</u>	DATE/TIME:	RECEIVED BY: <u>2</u>	Comments:
RELINQUISHED BY SAMPLER: 3. <u>[Signature]</u>	DATE/TIME: <u>9-17-25</u>	RECEIVED BY: <u>3</u>	Page <u>2</u> of <u>4</u>

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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3127	AECO15	Order Date : 9/17/2025 1:13:00 PM	Project Mgr :
Client Name : AECOM Technical Services		Project Name : NAVFAC NWIRP Bethpage	Report Type : Results Only
Client Contact : Eleanor Vivadou		Receive DateTime : 9/17/2025 ~~12:00:00 AM~~	EDD Type : EQUIS
Invoice Name : AECOM Technical Services		Purchase Order : 04:22:00 PM	Hard Copy Date :
Invoice Contact : Eleanor Vivadou			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3127-01	DUP08-20250915	Water	09/15/2025	11:30					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3127-02	RE131D1-20250915	Water	09/15/2025	09:55					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3127-03	RE131D2-20250915	Water	09/15/2025	11:10					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3127-04	DUP07-20250915	Water	09/15/2025	10:20					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3127-05	TT158I1-20250915	Water	09/15/2025	10:45					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3127-06	TT180D2-20250915	Water	09/15/2025	12:15					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3127-07	RE135D2-20250915	Water	09/15/2025	14:40					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3127-08	RE132D6-20250916	Water	09/16/2025	14:55					



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LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3127	AECO15	Order Date : 9/17/2025 1:13:00 PM	Project Mgr : NYS ASPB/DOD
Client Name : AECOM Technical Services		Project Name : NAVFAC NWIRP Bethpage	Report Type : ~~Results Only~~
Client Contact : Eleanor Vivadou		Receive DateTime : 9/17/2025 ~~12:00:00 AM~~	EDD Type : EQUIS
Invoice Name : AECOM Technical Services		Purchase Order : 04:22:00 PM	Hard Copy Date :
Invoice Contact : Eleanor Vivadou			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3127-09	TT101D2-20250915	Water	09/15/2025	11:40					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3127-10	TT101D-20250915	Water	09/15/2025	10:50					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3127-11	RE135D3-20250915	Water	09/15/2025	14:35					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3127-12	RE132D7-20250916	Water	09/16/2025	15:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3127-13	TT119S1-20250916	Water	09/16/2025	15:10					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3127-14	Q3127-13MS	Water	09/16/2025	15:10					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3127-15	Q3127-13MSD	Water	09/16/2025	15:10					
					VOCMS Group1		8260-Low	10 Bus. Days	



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LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3127 AECO15 Order Date : 9/17/2025 1:13:00 PM Project Mgr : NYS ASPB/DOD
Client Name : AECOM Technical Services Project Name : NAVFAC NWIRP Bethpage
Client Contact : Eleanor Vivadou Receive DateTime : 9/17/2025 ~~12:00:00 AM~~ Report Type : ~~Results Only~~
Invoice Name : AECOM Technical Services Purchase Order : 04:22:00 PM EDD Type : EQUIS
Invoice Contact : Eleanor Vivadou Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3127-16	TT101D2-20250915 <i>10</i>	Water	09/15/2025	11:25					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3127-17	TB06-20250912	Water	09/12/2025	00:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3127-18	BPOW1-8-20250917	Water	09/17/2025	12:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3127-19	BPOW1-7-20250917	Water	09/17/2025	10:55					
					VOCMS Group1		8260-Low	10 Bus. Days	

YG 09/26/2025

Relinquished By : *[Signature]*

Date / Time : *09/18/25 08:25*

Received By : *[Signature]*

Date / Time : *09/18/25 8:45 Pg # 4*

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

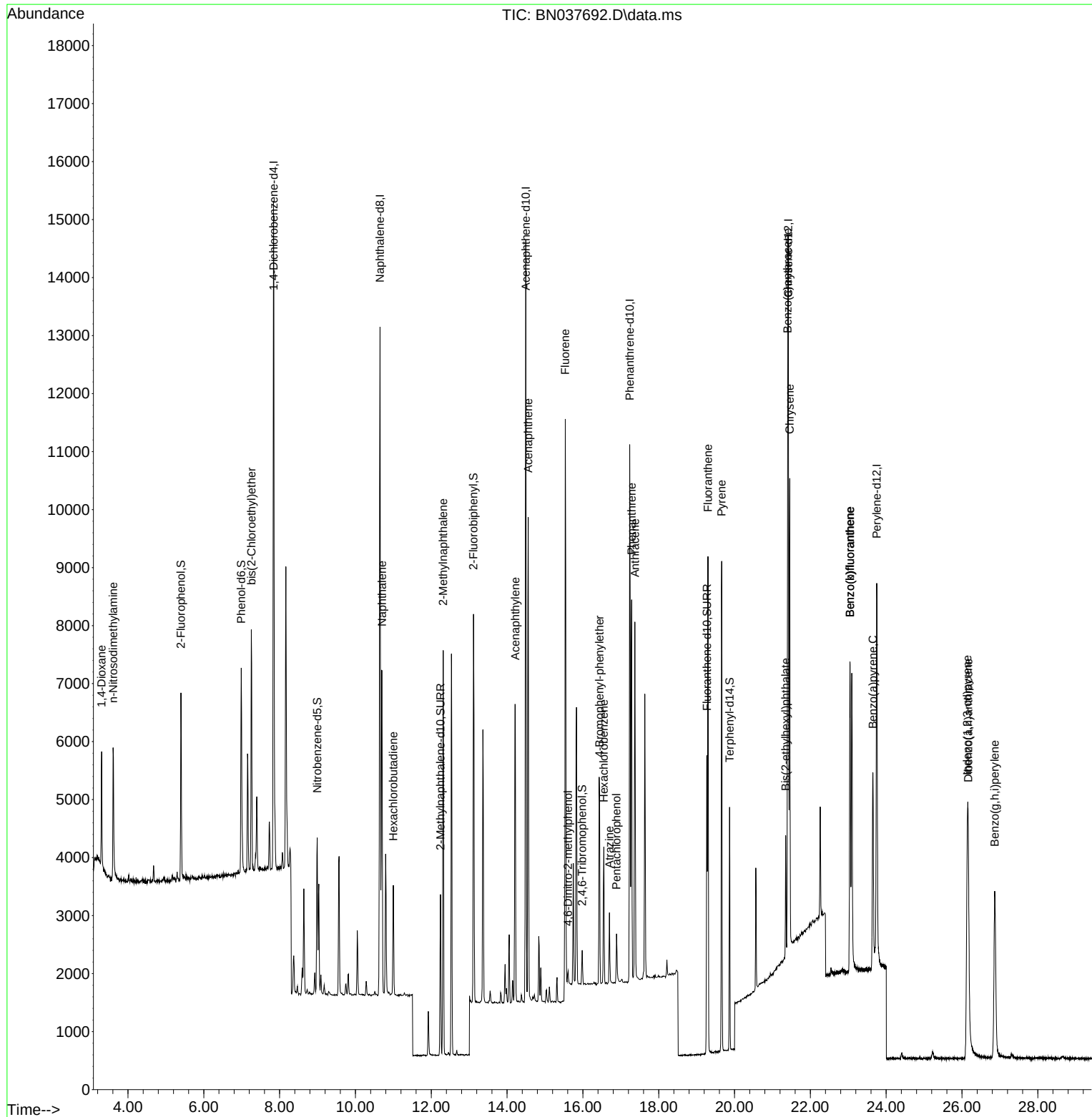
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	5547	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	15018	0.400	ng	0.00
13) Acenaphthene-d10	14.494	164	6952	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	12385	0.400	ng	0.00
29) Chrysene-d12	21.420	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						
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

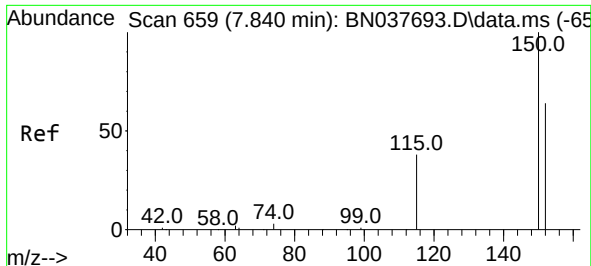
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

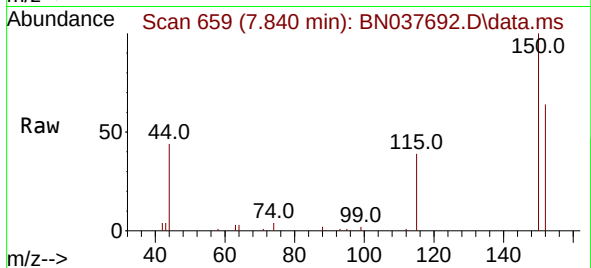
Quant Time: Sep 11 14:05:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration



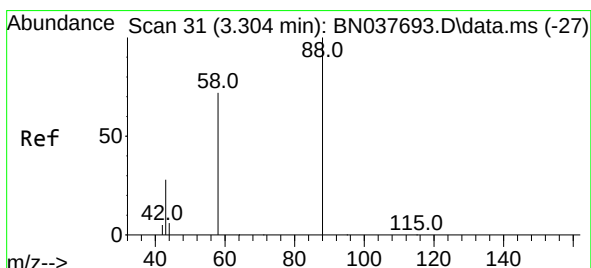
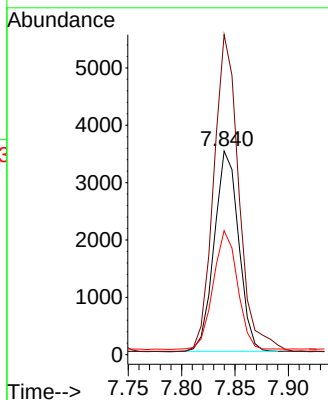
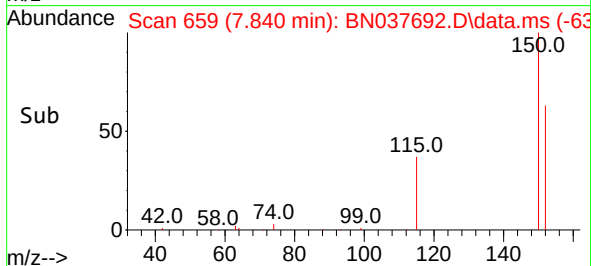


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.840 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN037692.D
 Acq: 11 Sep 2025 10:32

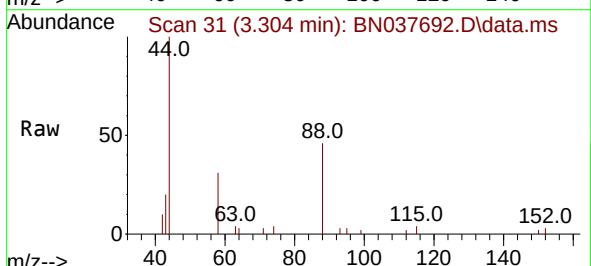
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2



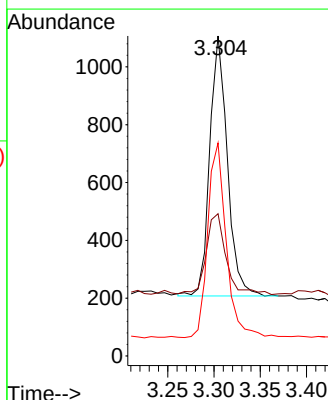
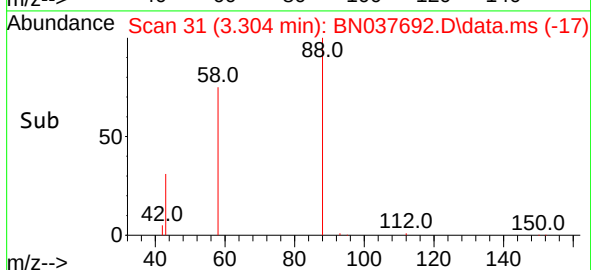
Tgt Ion:152 Resp: 5547
 Ion Ratio Lower Upper
 152 100
 150 157.2 124.5 186.7
 115 60.9 49.2 73.8

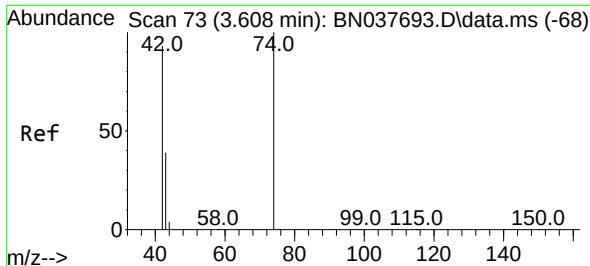


#2
 1,4-Dioxane
 Concen: 0.206 ng
 RT: 3.304 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: BN037692.D
 Acq: 11 Sep 2025 10:32



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

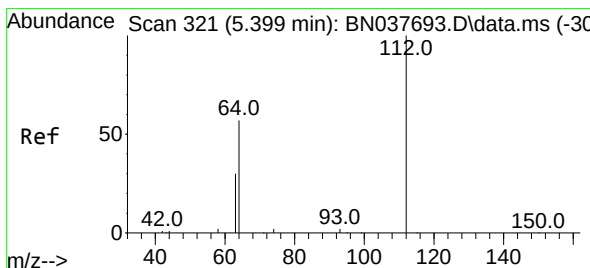
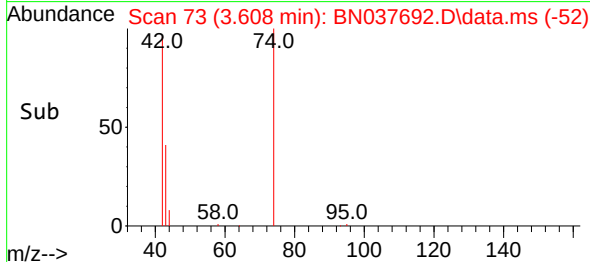
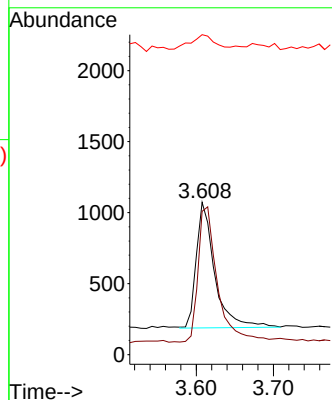
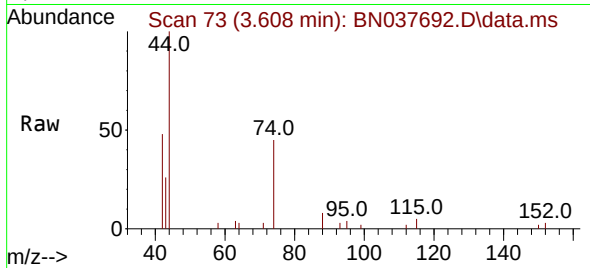




#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.608 min Scan# 73
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

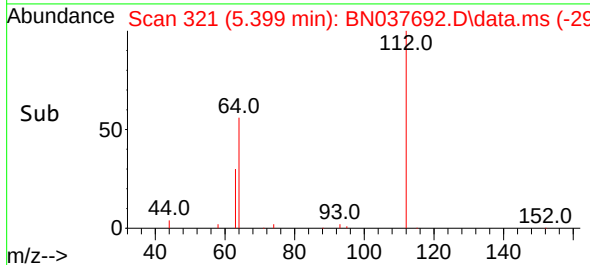
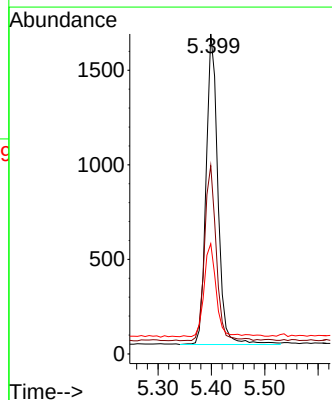
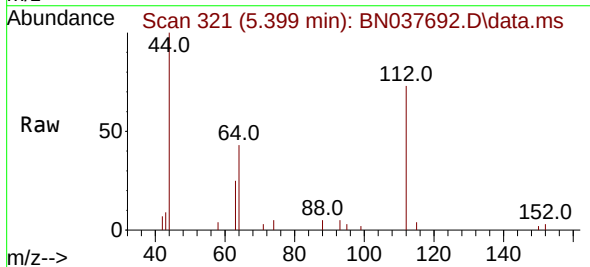
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

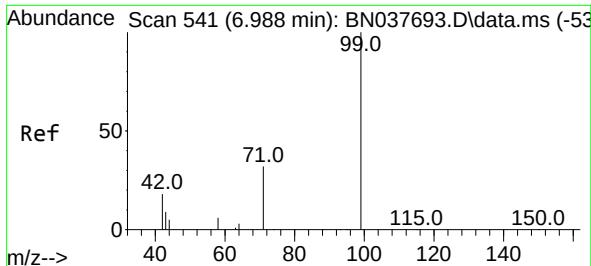
Tgt Ion: 42 Resp: 1470
Ion Ratio Lower Upper
42 100
74 113.6 86.0 129.0
44 16.2 8.4 12.6#



#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

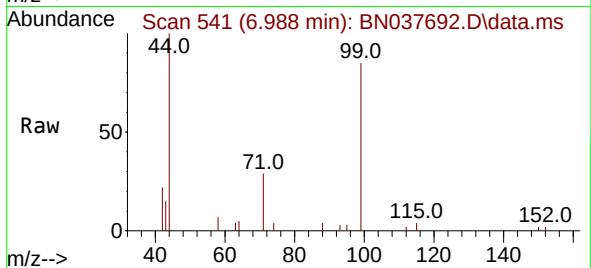
Tgt Ion: 112 Resp: 2533
Ion Ratio Lower Upper
112 100
64 55.5 44.9 67.3
63 30.4 24.7 37.1



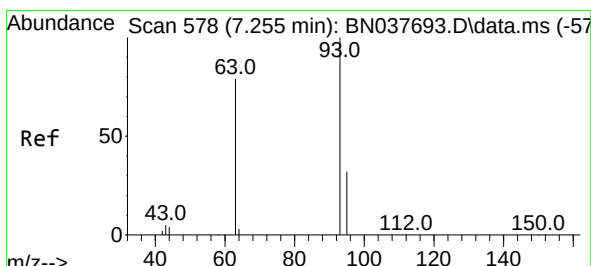
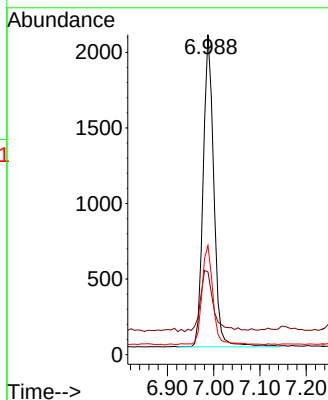
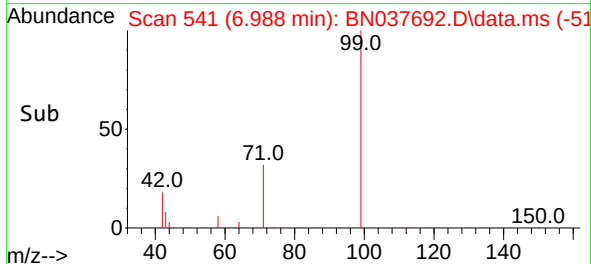


#5
Phenol-d6
Concen: 0.200 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

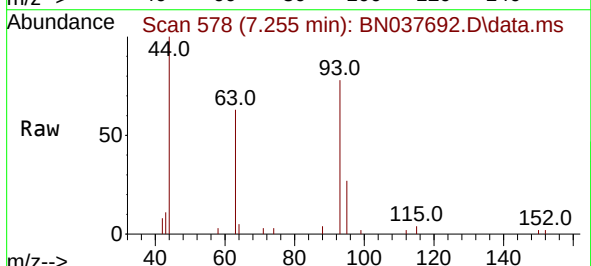
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



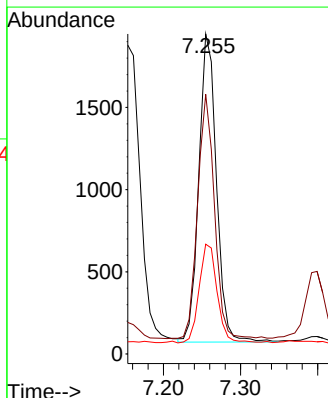
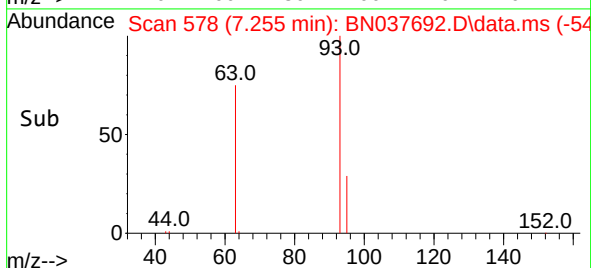
Tgt Ion: 99 Resp: 3308
Ion Ratio Lower Upper
99 100
42 24.3 16.6 24.8
71 32.8 26.7 40.1

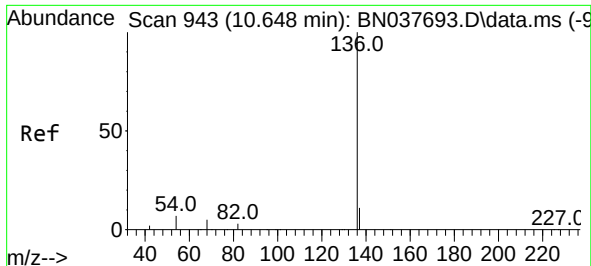


#6
bis(2-Chloroethyl)ether
Concen: 0.202 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32



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

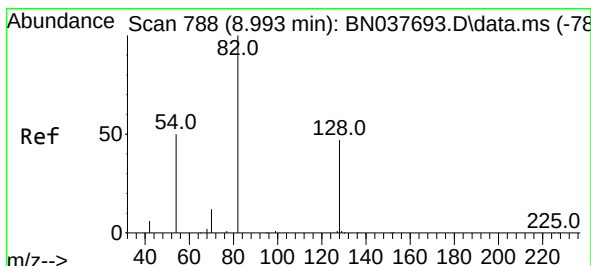
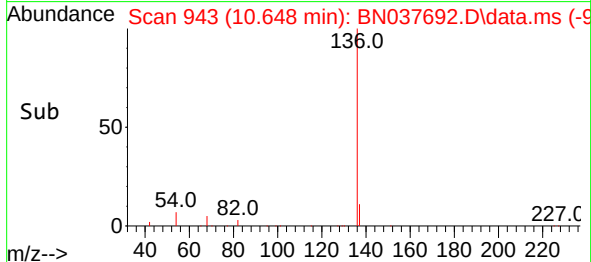
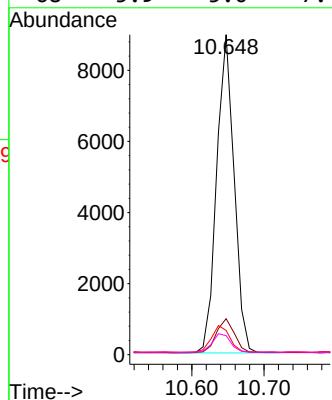
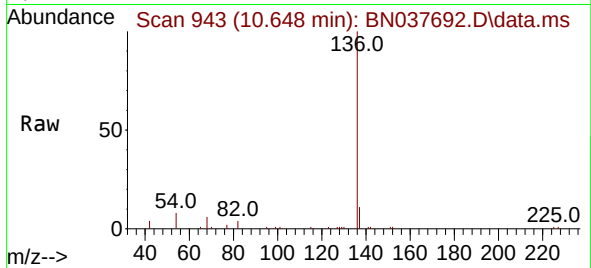




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

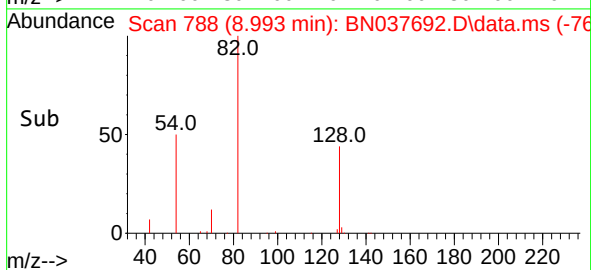
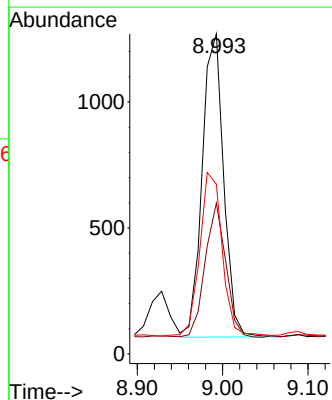
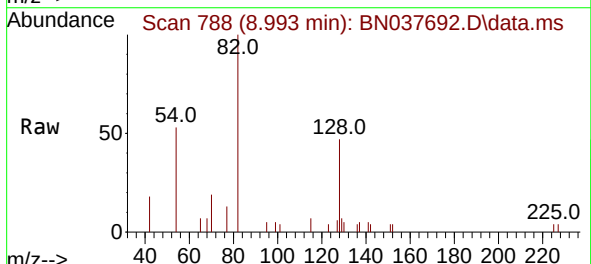
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

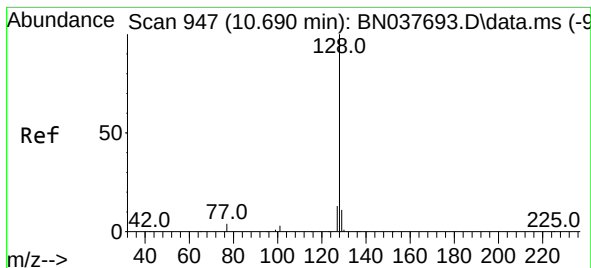
Tgt Ion:	136	Resp:	15018
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.1	13.7
54	7.6	6.3	9.5
68	5.9	5.0	7.4



#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# 947

Delta R.T. 0.011 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

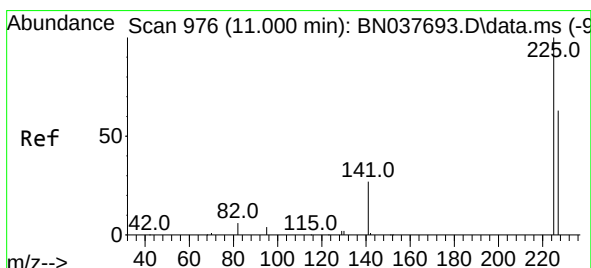
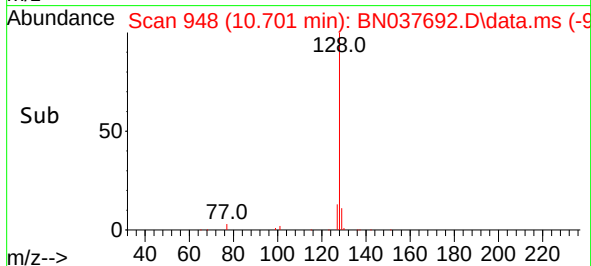
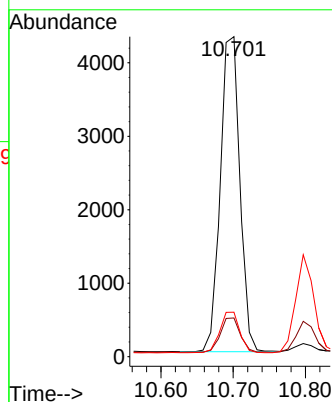
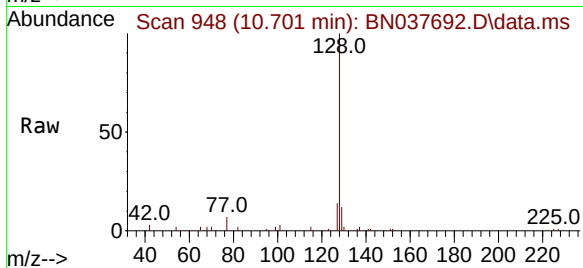
Tgt Ion:128 Resp: 8051

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

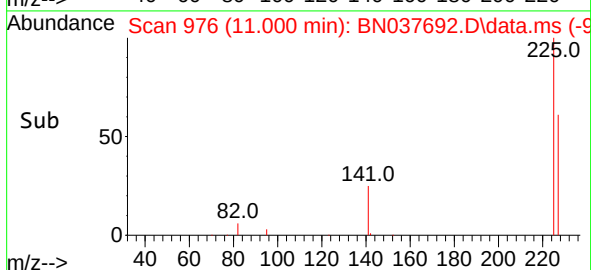
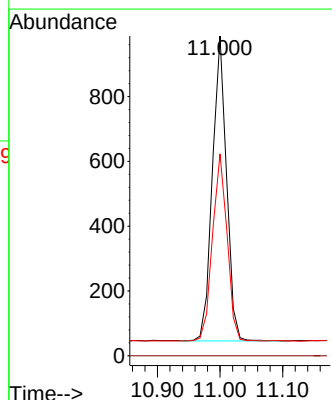
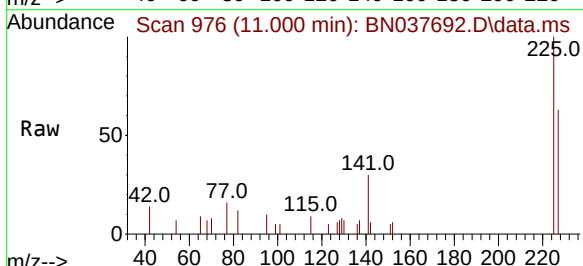
Tgt Ion:225 Resp: 1472

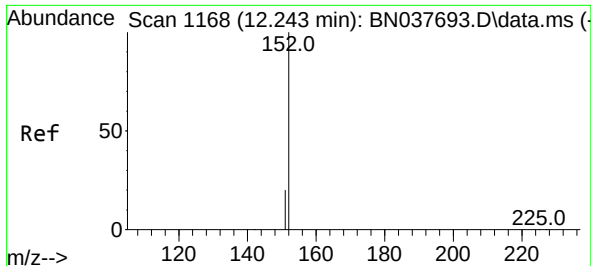
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.2 50.9 76.3

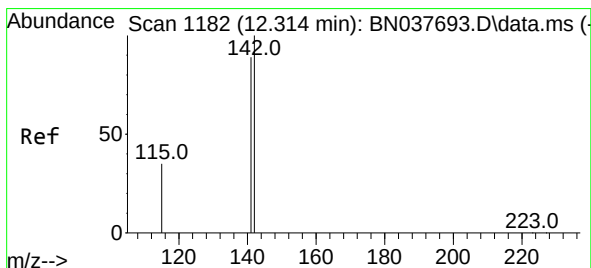
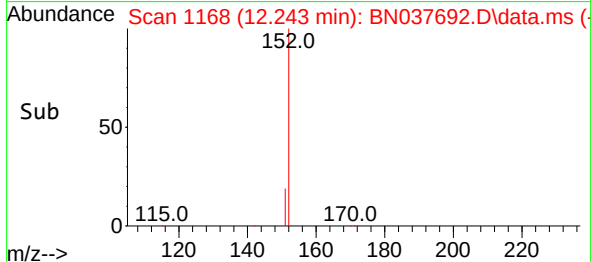
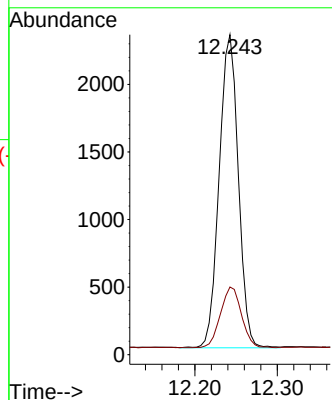
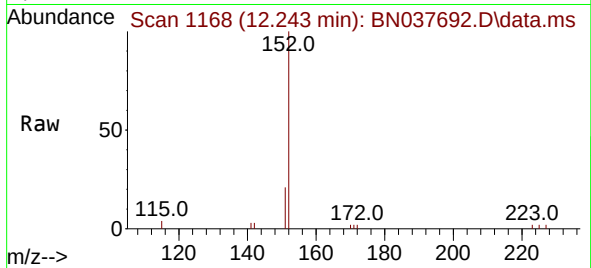




#11
2-Methylnaphthalene-d10
Concen: 0.188 ng
RT: 12.243 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

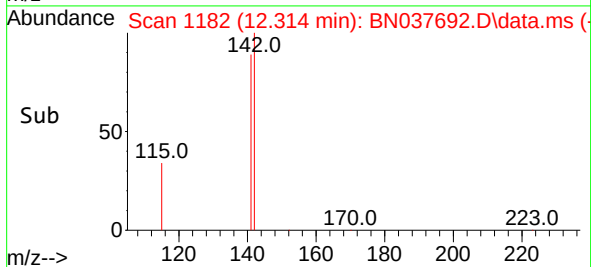
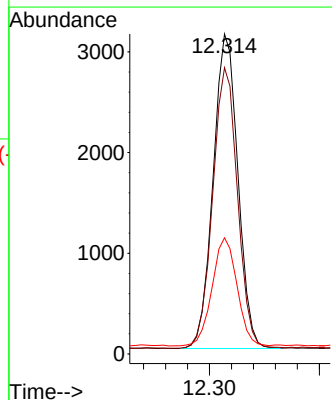
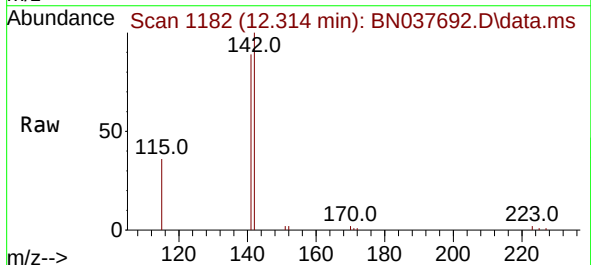
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

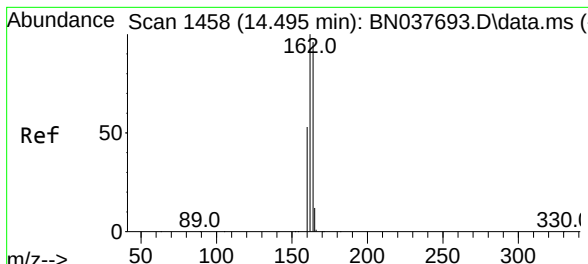
Tgt Ion:152 Resp: 3732
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6



#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

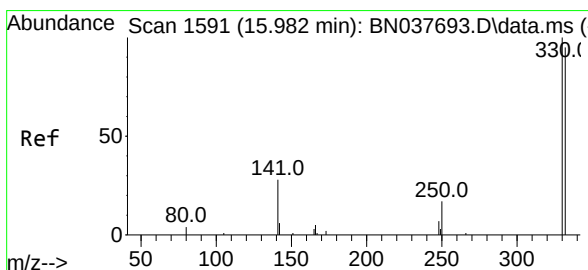
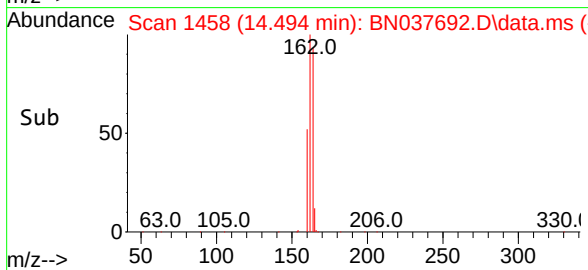
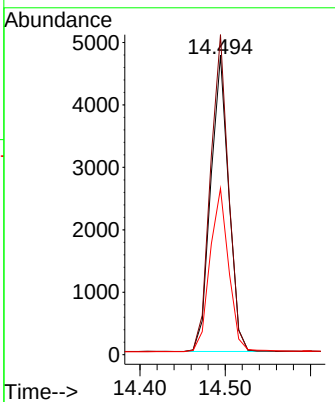
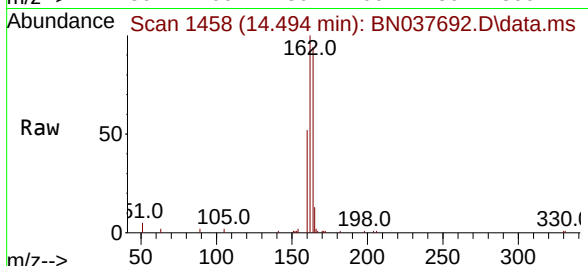




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.494 min Scan# 1458
 Delta R.T. -0.000 min
 Lab File: BN037692.D
 Acq: 11 Sep 2025 10:32

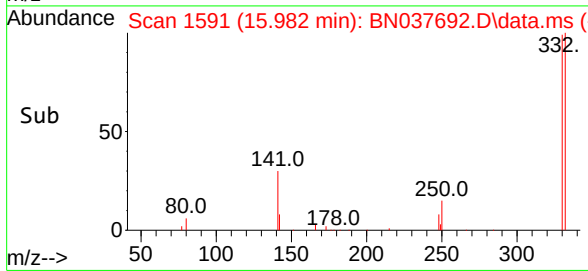
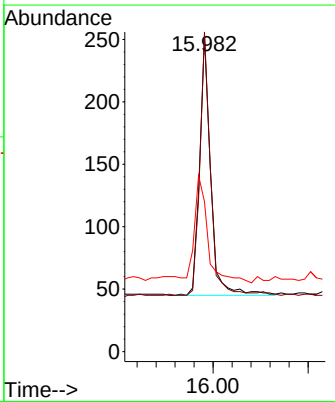
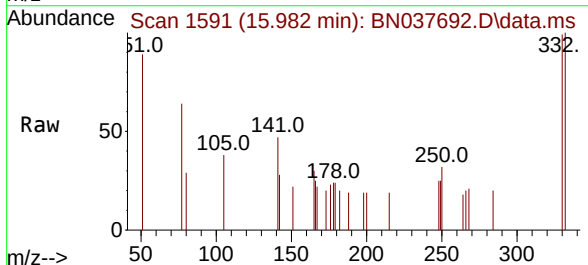
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

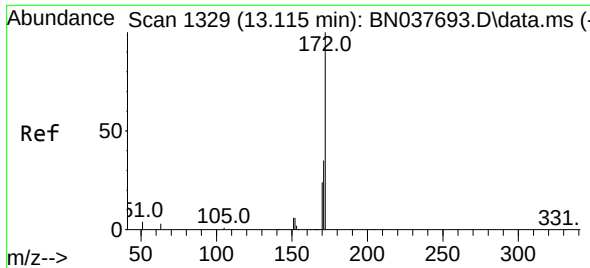
Tgt Ion:	164	Resp:	6952
Ion	Ratio	Lower	Upper
164	100		
162	106.9	83.1	124.7
160	55.5	44.3	66.5



#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

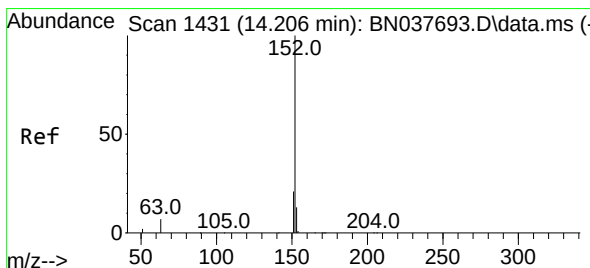
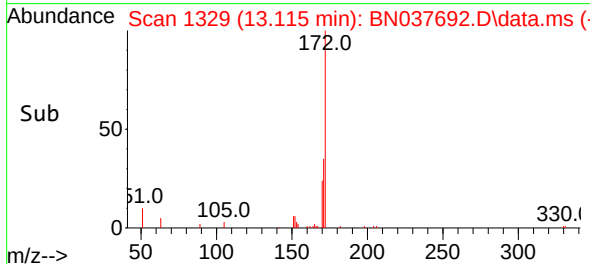
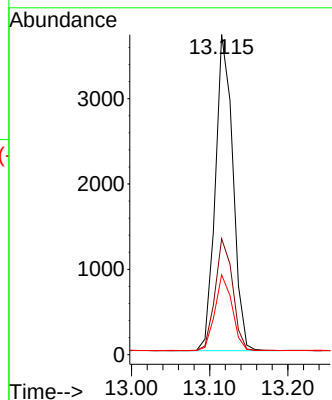
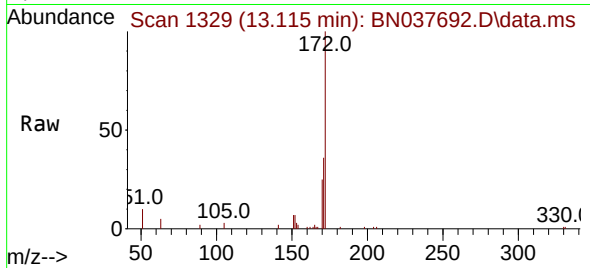




#15
2-Fluorobiphenyl
Concen: 0.199 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

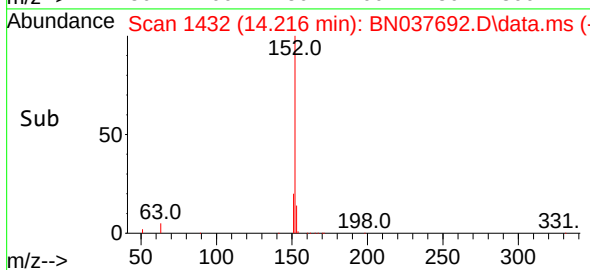
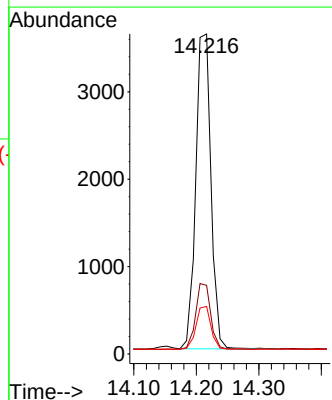
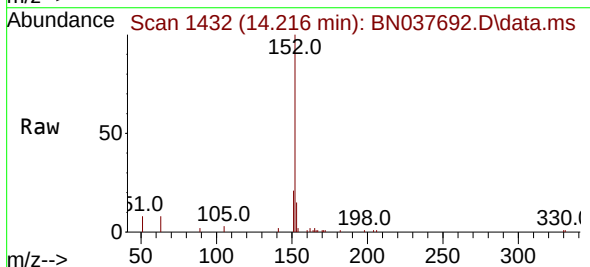
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

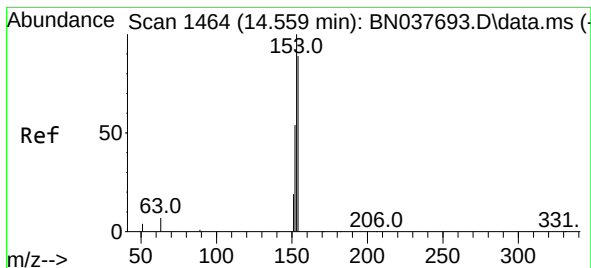
Tgt Ion:	172	Resp:	5791
Ion Ratio	Lower	Upper	
172	100		
171	36.2	28.6	43.0
170	24.9	19.8	29.8



#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

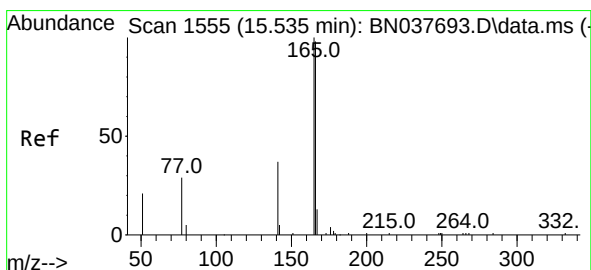
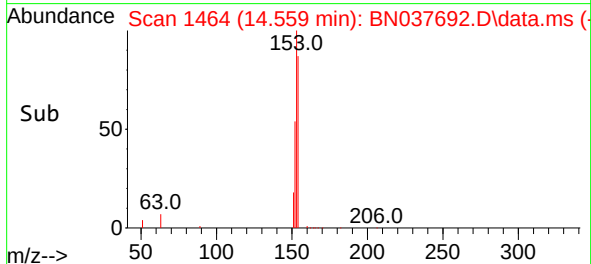
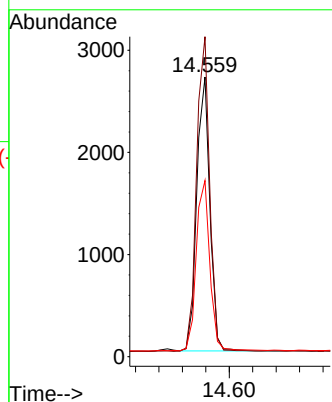
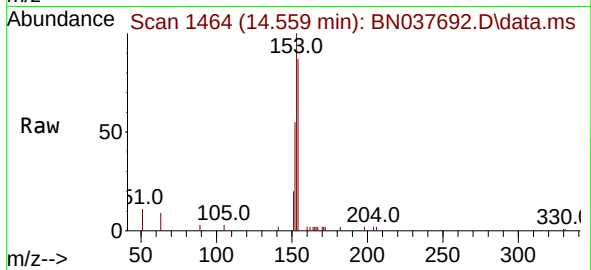




#17
Acenaphthene
Concen: 0.193 ng
RT: 14.559 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

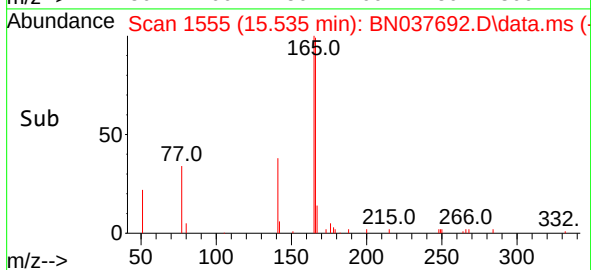
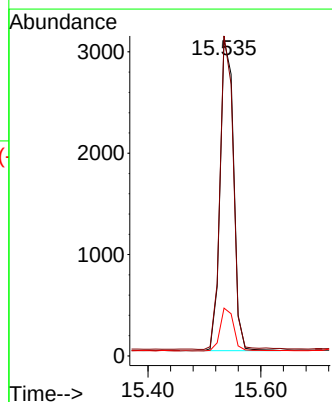
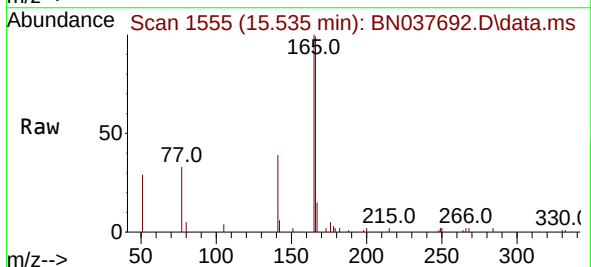
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

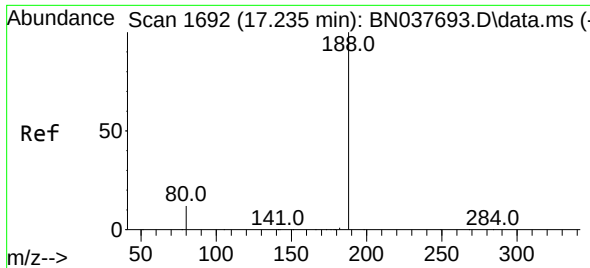
Tgt Ion:154 Resp: 4168
Ion Ratio Lower Upper
154 100
153 114.9 89.8 134.8
152 64.4 50.2 75.2



#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

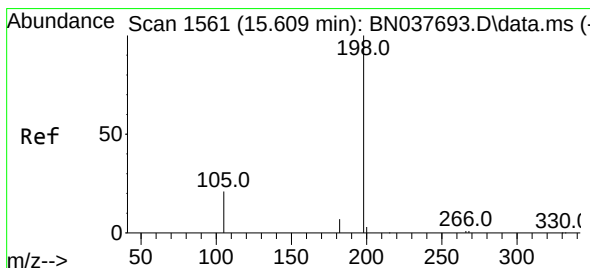
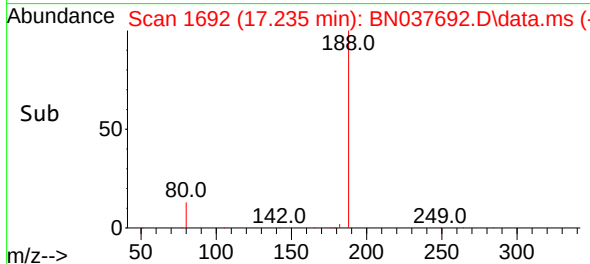
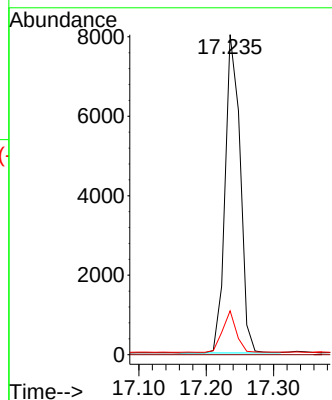
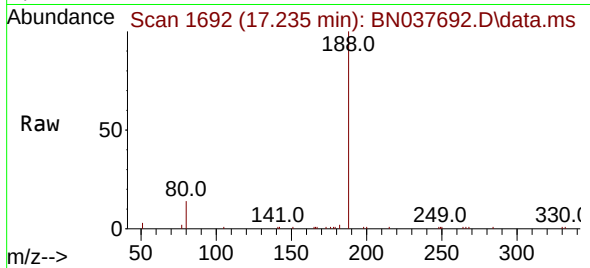




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

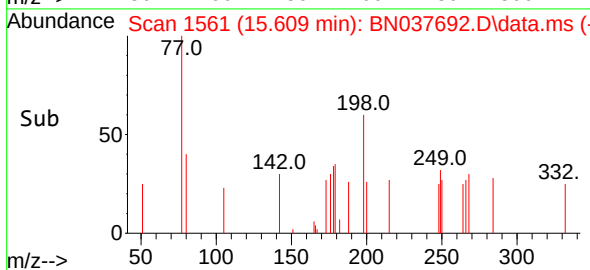
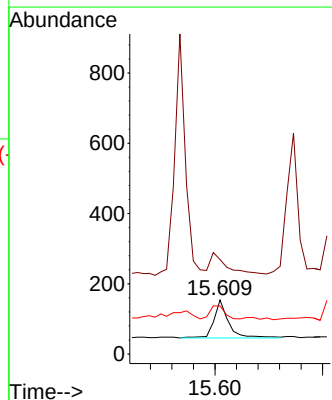
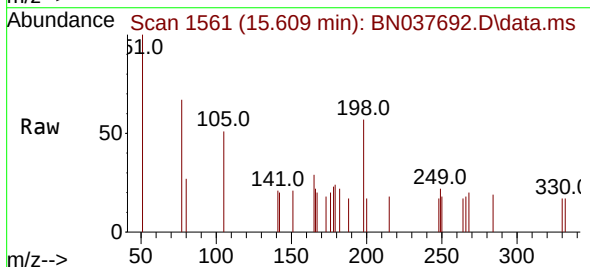
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

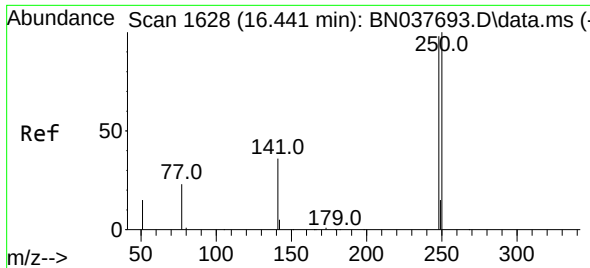
Tgt Ion:188 Resp: 12385
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.7 10.6 15.8



#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#

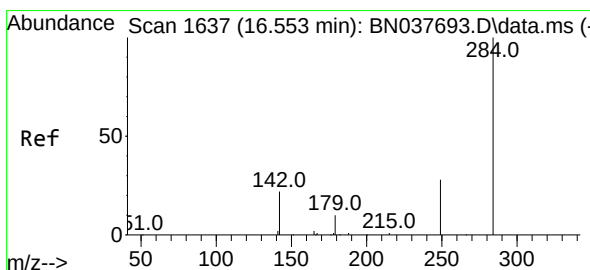
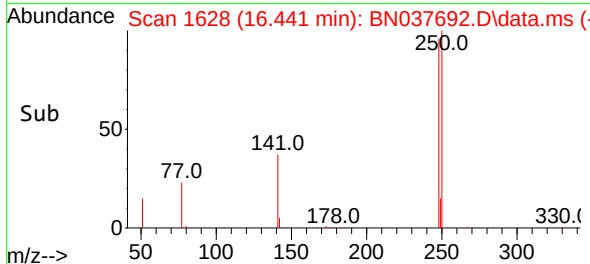
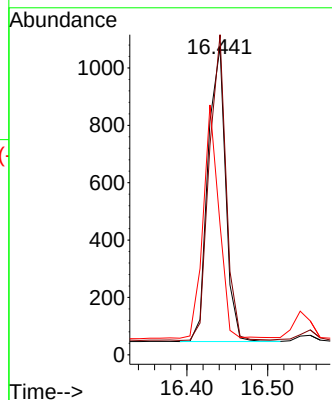
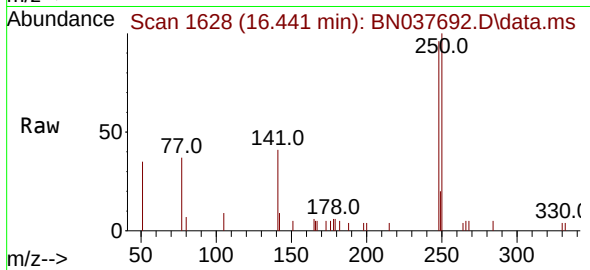




#21
4-Bromophenyl-phenylether
Concen: 0.193 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

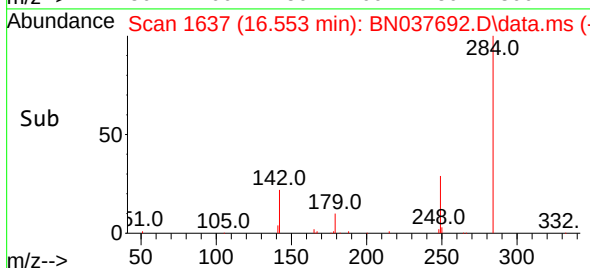
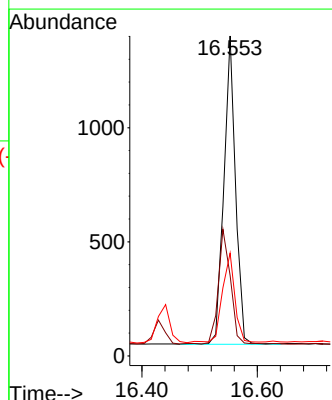
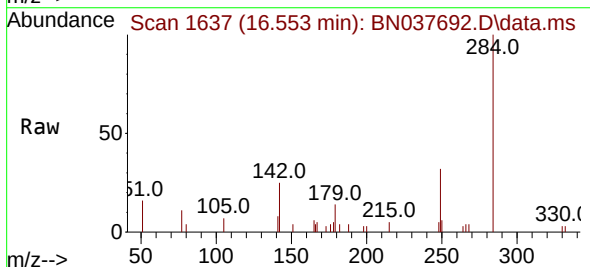
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

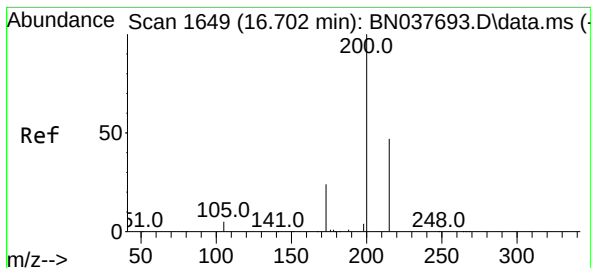
Tgt Ion:	248	Resp:	1560
Ion Ratio	Lower	Upper	
248	100		
250	104.0	81.5	122.3
141	42.3	30.8	46.2



#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# 1

Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

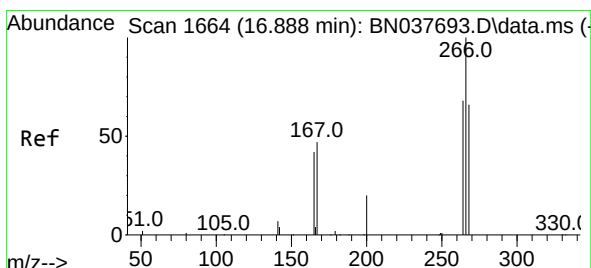
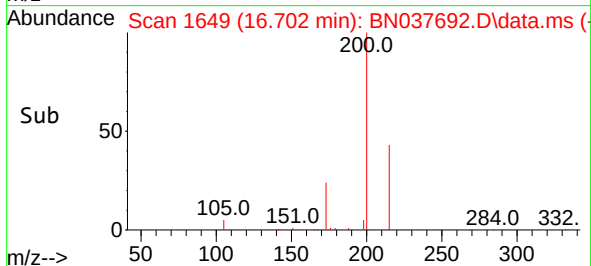
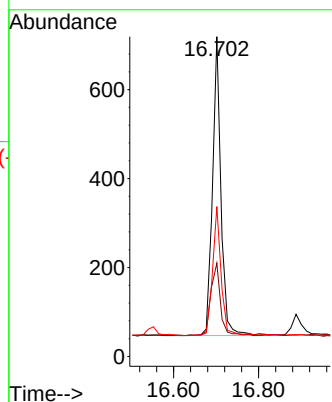
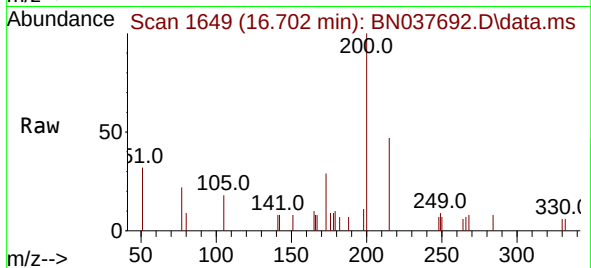
Tgt Ion:200 Resp: 932

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

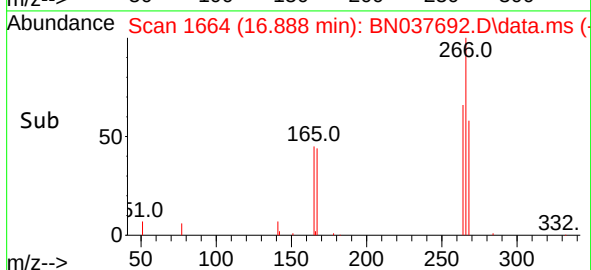
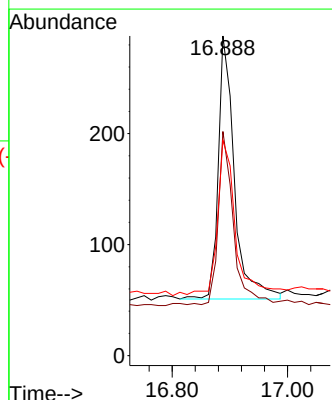
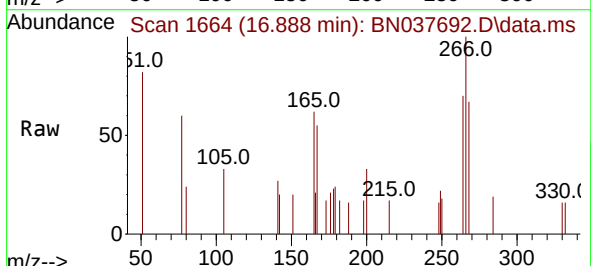
Tgt Ion:266 Resp: 461

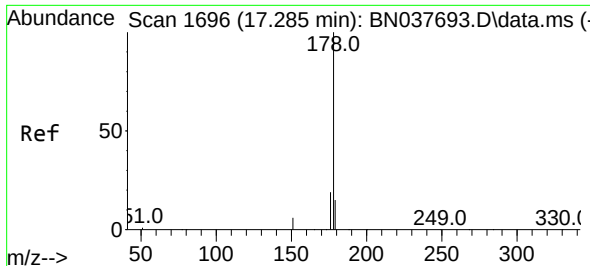
Ion Ratio Lower Upper

266 100

264 61.6 51.6 77.4

268 67.5 53.2 79.8

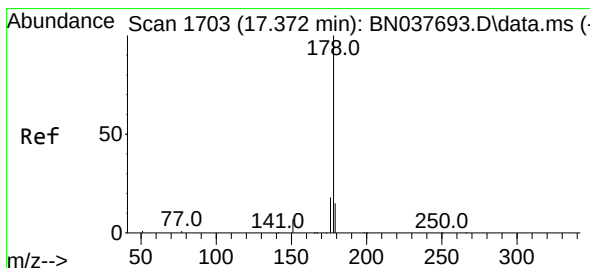
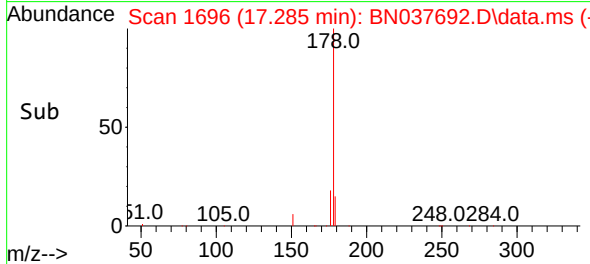
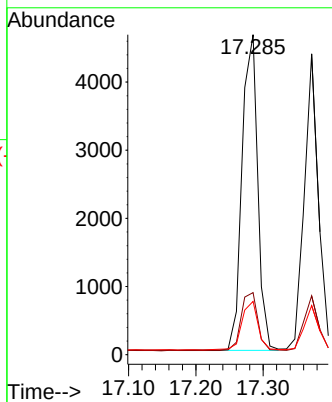
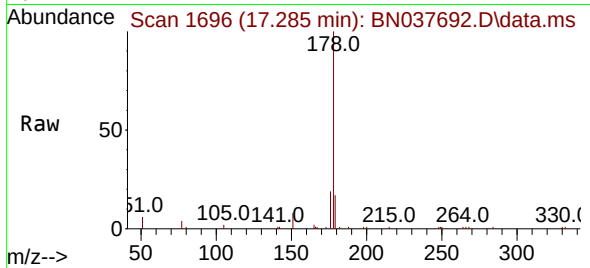




#25
Phenanthrene
Concen: 0.193 ng
RT: 17.285 min Scan# 1696
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

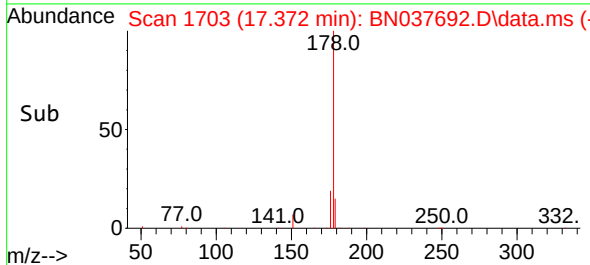
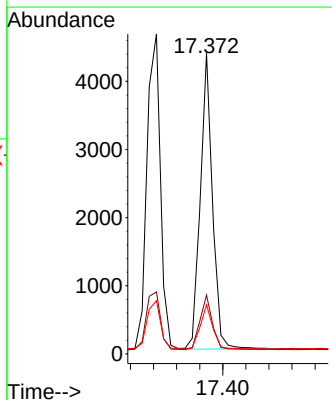
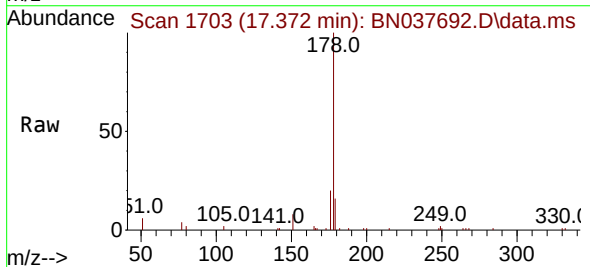
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

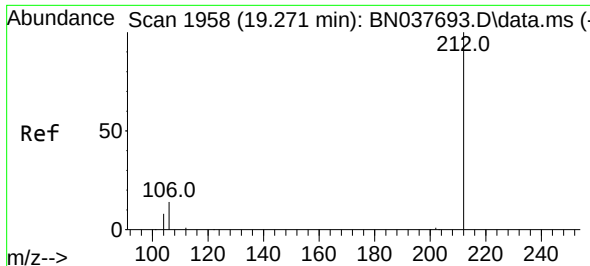
Tgt Ion:	178	Resp:	7526
Ion Ratio	Lower	Upper	
178	100		
176	19.9	15.3	22.9
179	15.7	12.2	18.2



#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

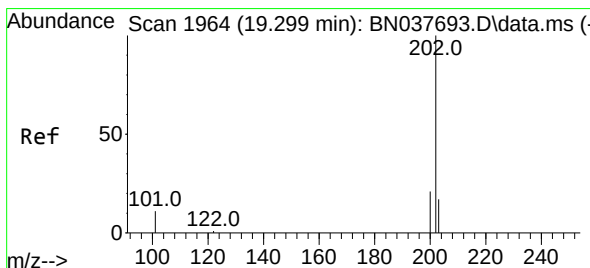
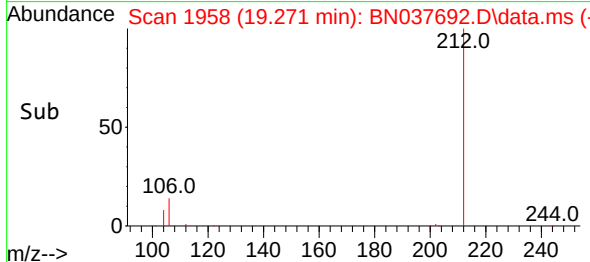
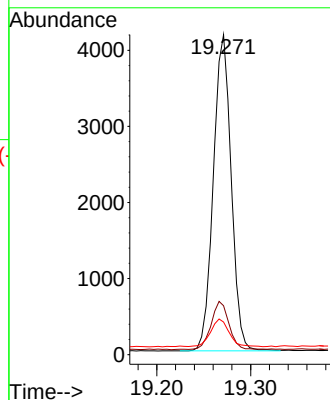
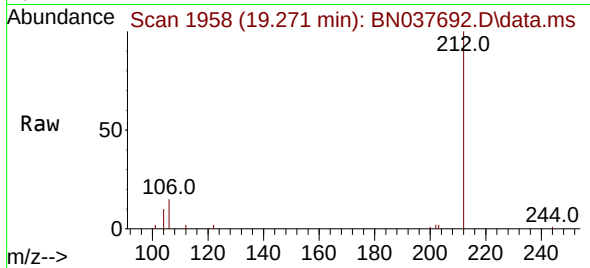




#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 19.271 min Scan# 1958
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

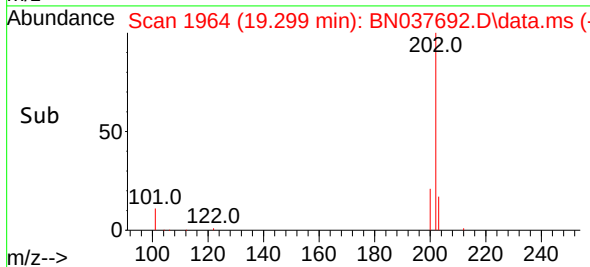
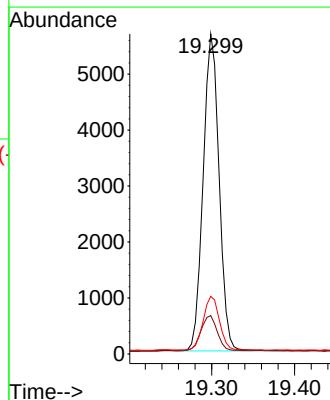
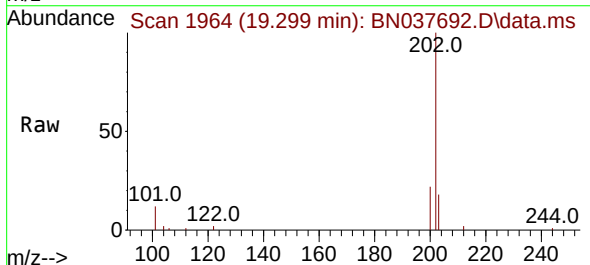
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

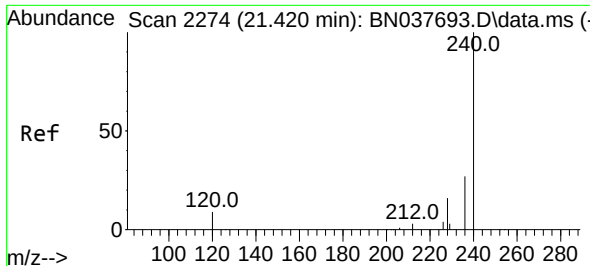
Tgt Ion:	212	Resp:	5492
Ion	Ratio	Lower	Upper
212	100		
106	15.4	12.2	18.2
104	9.0	6.9	10.3



#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

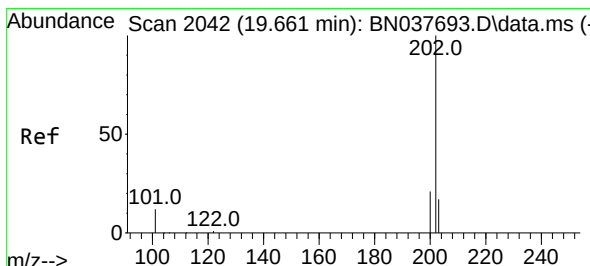
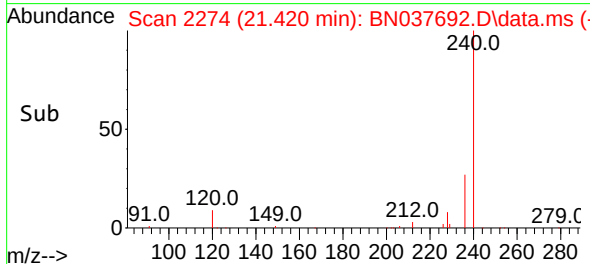
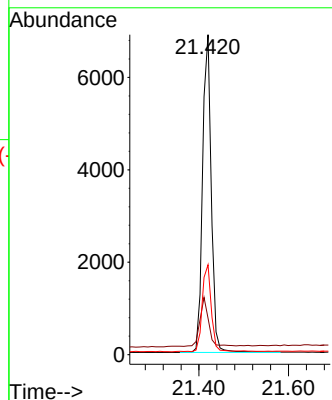
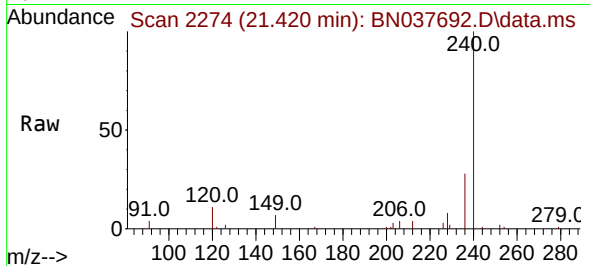




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

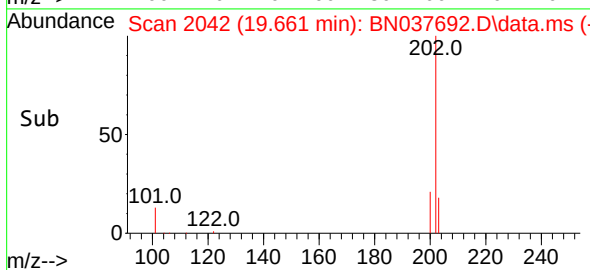
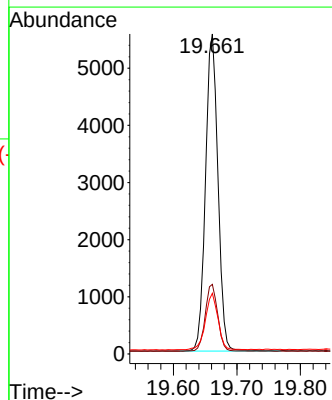
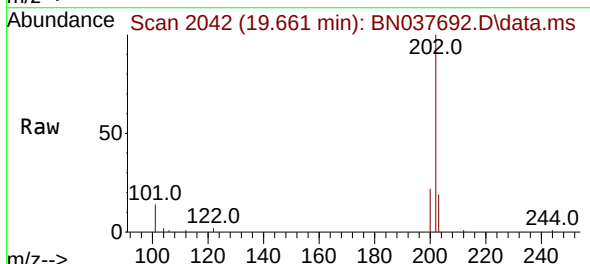
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

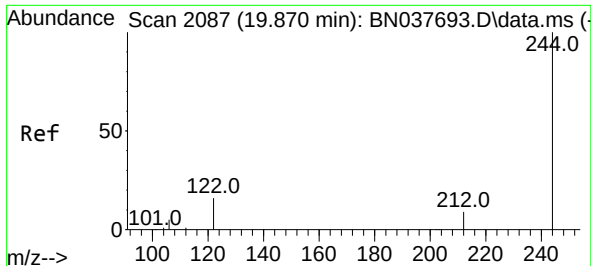
Tgt Ion:240 Resp: 9324
Ion Ratio Lower Upper
240 100
120 11.4 9.2 13.8
236 28.1 22.6 33.8



#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

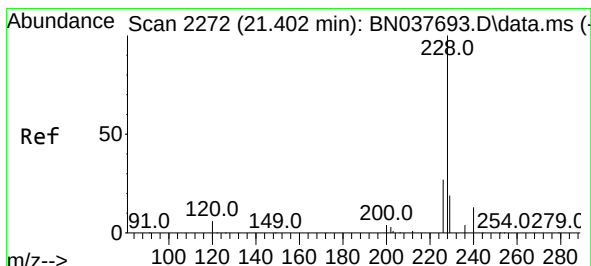
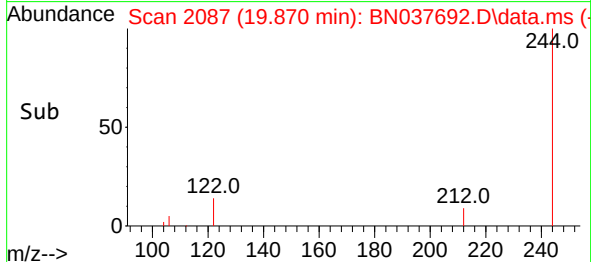
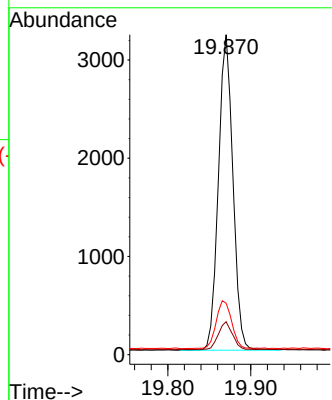
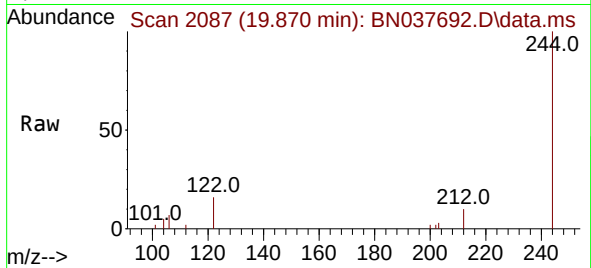




#31
Terphenyl-d14
Concen: 0.205 ng
RT: 19.870 min Scan# 2087
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

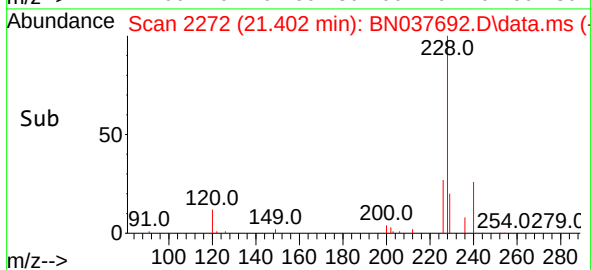
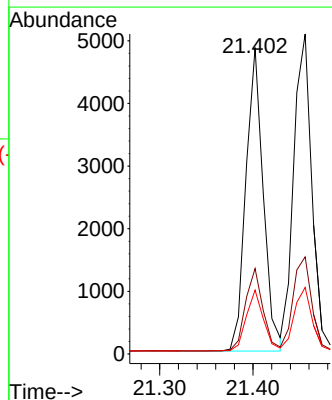
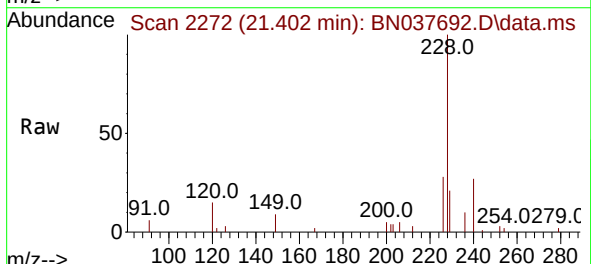
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

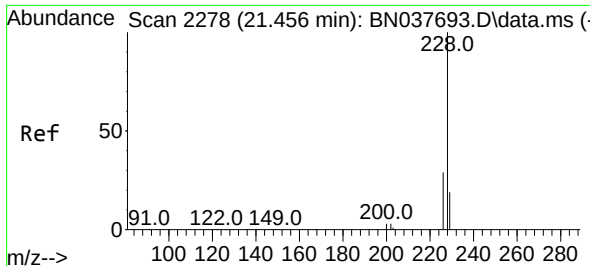
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.3	7.5	11.3
122	16.1	13.2	19.8



#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	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 :

SSTDIC0.2

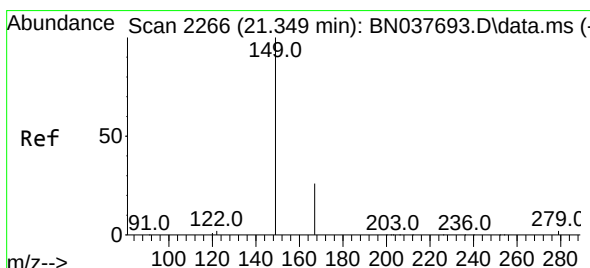
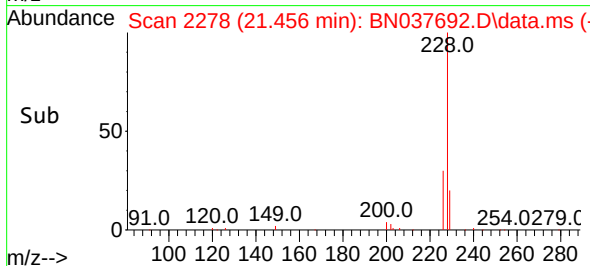
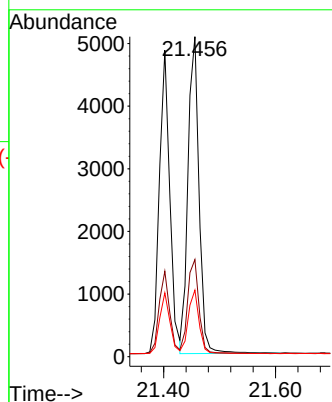
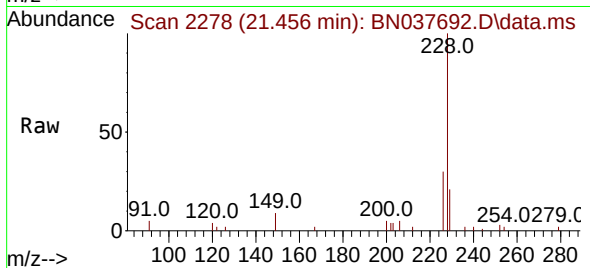
Tgt Ion:228 Resp: 6953

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

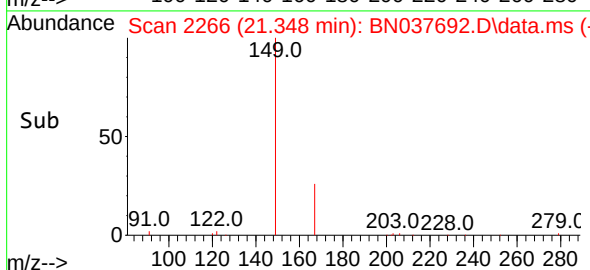
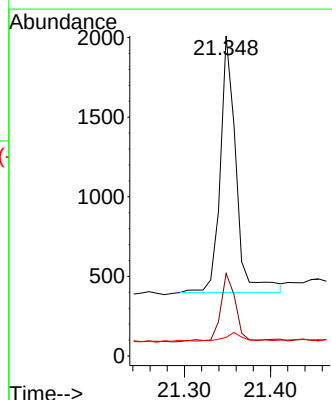
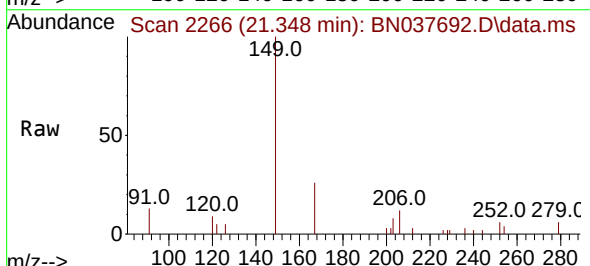
Tgt Ion:149 Resp: 2049

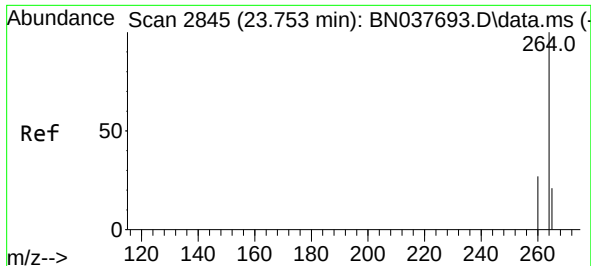
Ion Ratio Lower Upper

149 100

167 24.7 20.8 31.2

279 3.1 3.3 4.9#

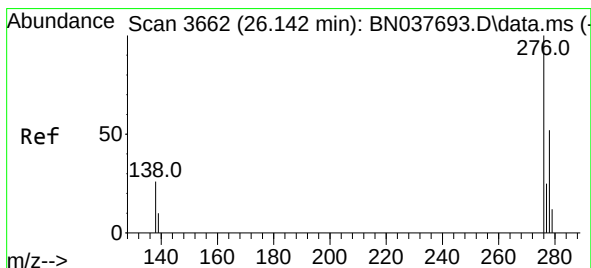
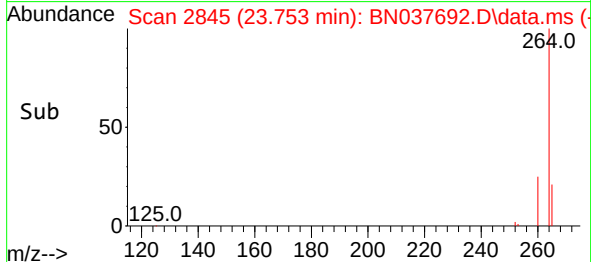
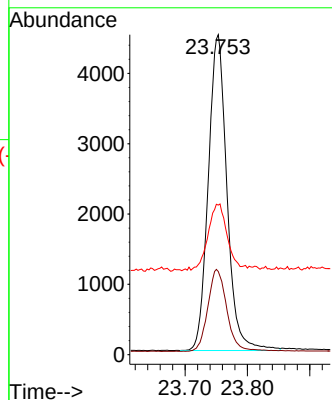
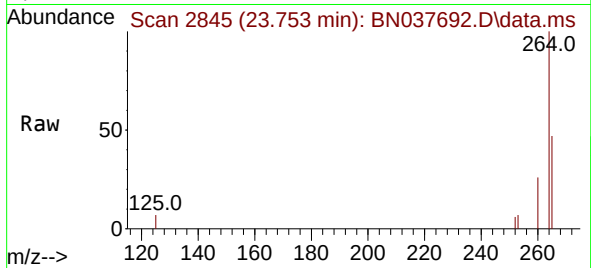




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.753 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN037692.D
 Acq: 11 Sep 2025 10:32

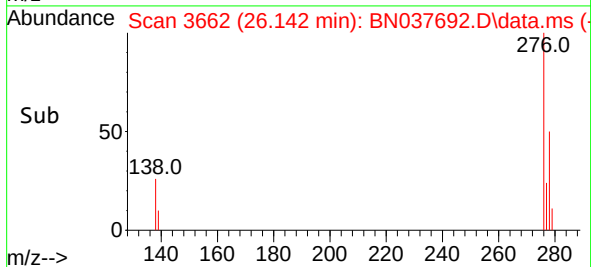
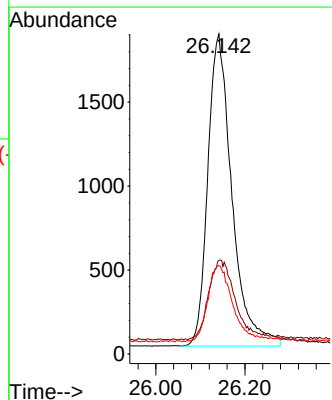
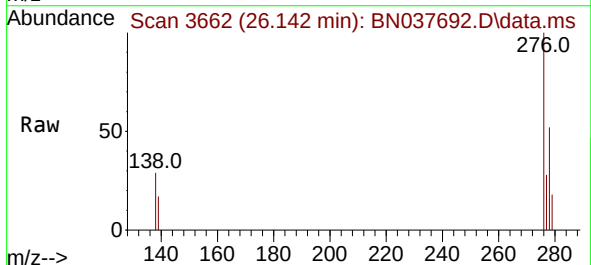
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

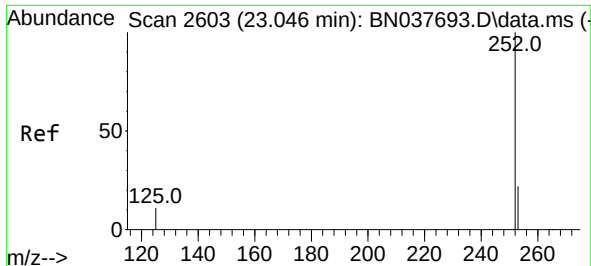
Tgt Ion:	264	Resp:	9364
Ion Ratio	Lower	Upper	
264	100		
260	26.0	21.8	32.8
265	46.7	39.4	59.2



#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

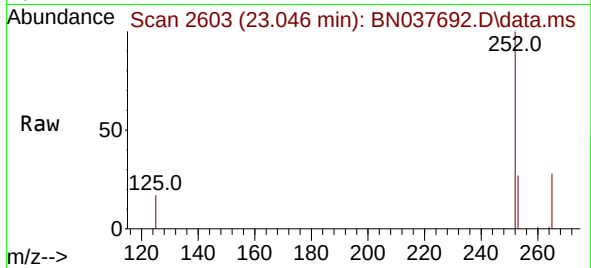
Tgt Ion:	276	Resp:	6982
Ion Ratio	Lower	Upper	
276	100		
138	28.1	21.9	32.9
277	24.6	20.1	30.1



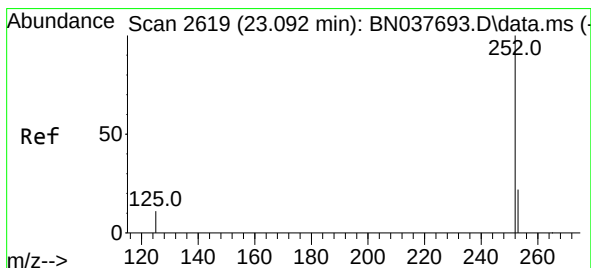
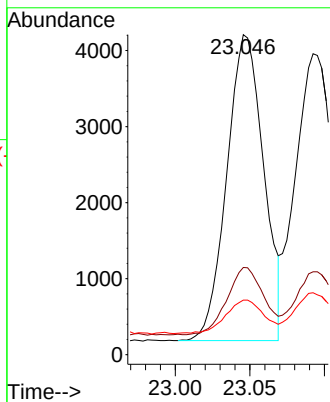
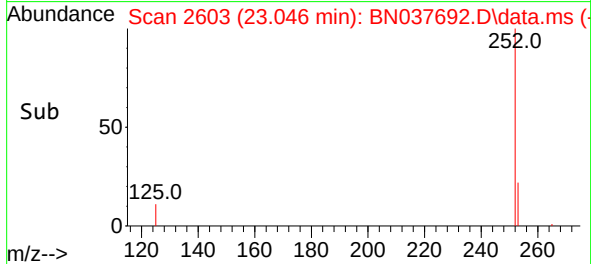


#37
Benzo(b)fluoranthene
Concen: 0.187 ng
RT: 23.046 min Scan# 2603
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

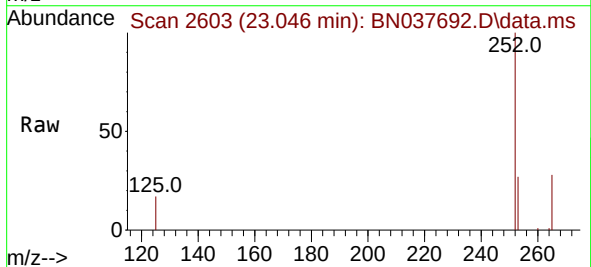
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



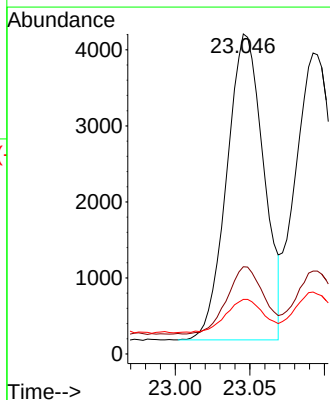
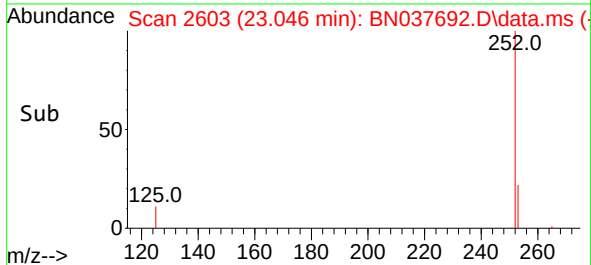
Tgt Ion:252 Resp: 6907
Ion Ratio Lower Upper
252 100
253 27.3 19.4 29.2
125 17.0 11.2 16.8#

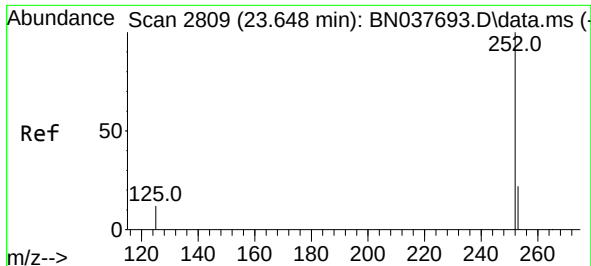


#38
Benzo(k)fluoranthene
Concen: 0.184 ng
RT: 23.046 min Scan# 2603
Delta R.T. -0.047 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32



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

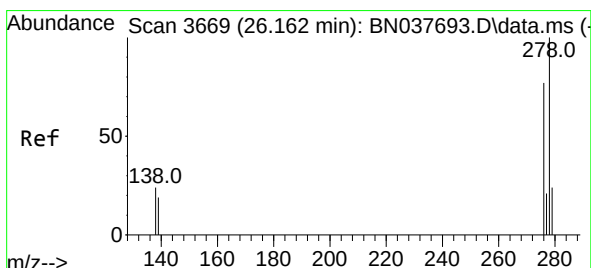
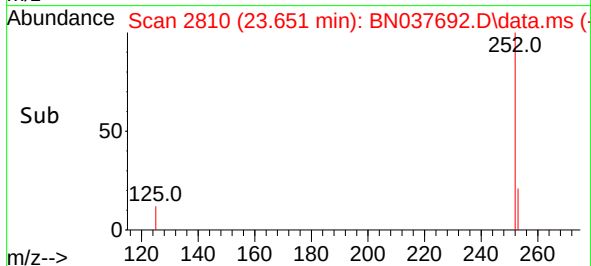
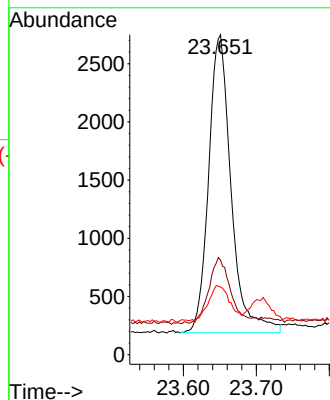
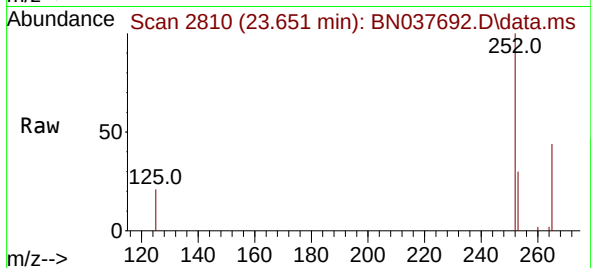
Tgt Ion:252 Resp: 5489

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

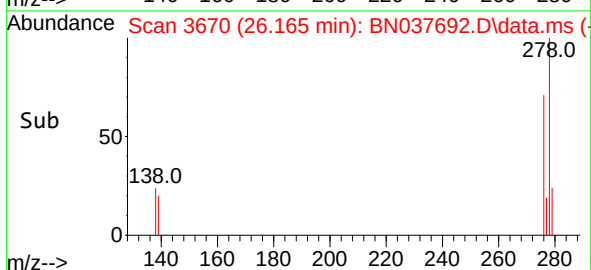
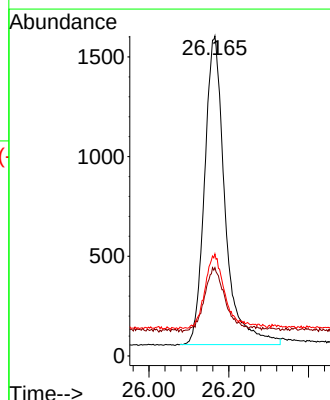
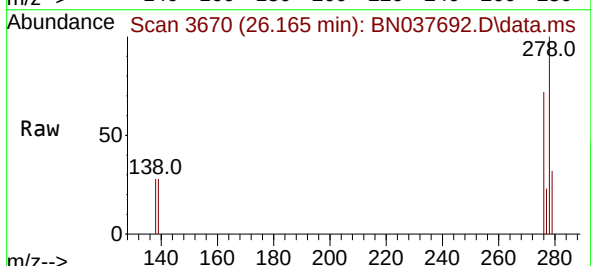
Tgt Ion:278 Resp: 5503

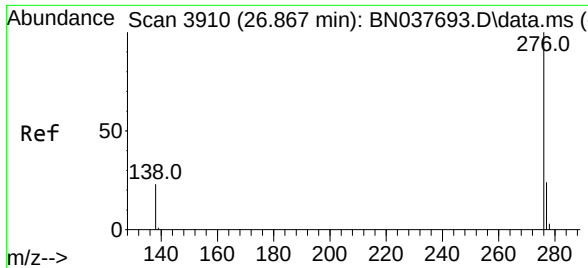
Ion Ratio Lower Upper

278 100

139 27.6 17.8 26.6#

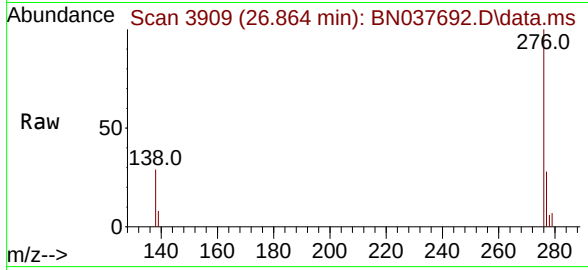
279 31.9 22.0 33.0



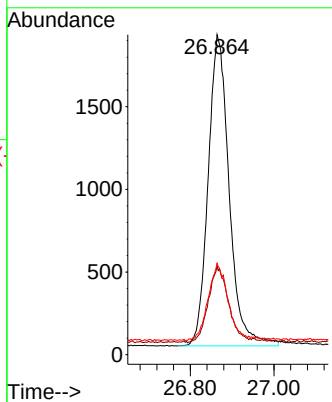
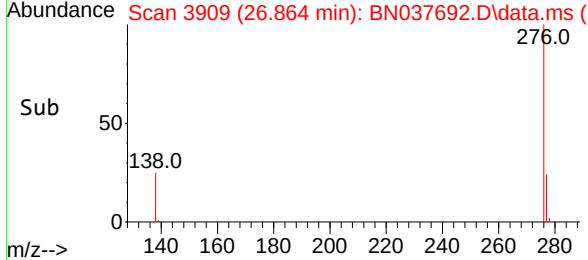


#41
Benzo(g,h,i)perylene
Concen: 0.186 ng
RT: 26.864 min Scan# 3910
Delta R.T. -0.003 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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 : BN037809.D
 Acq On : 19 Sep 2025 11:50
 Operator : RC/JU
 Sample : Q3127-14MS
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT119S1-20250916MS

Quant Time: Sep 19 12:26:37 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

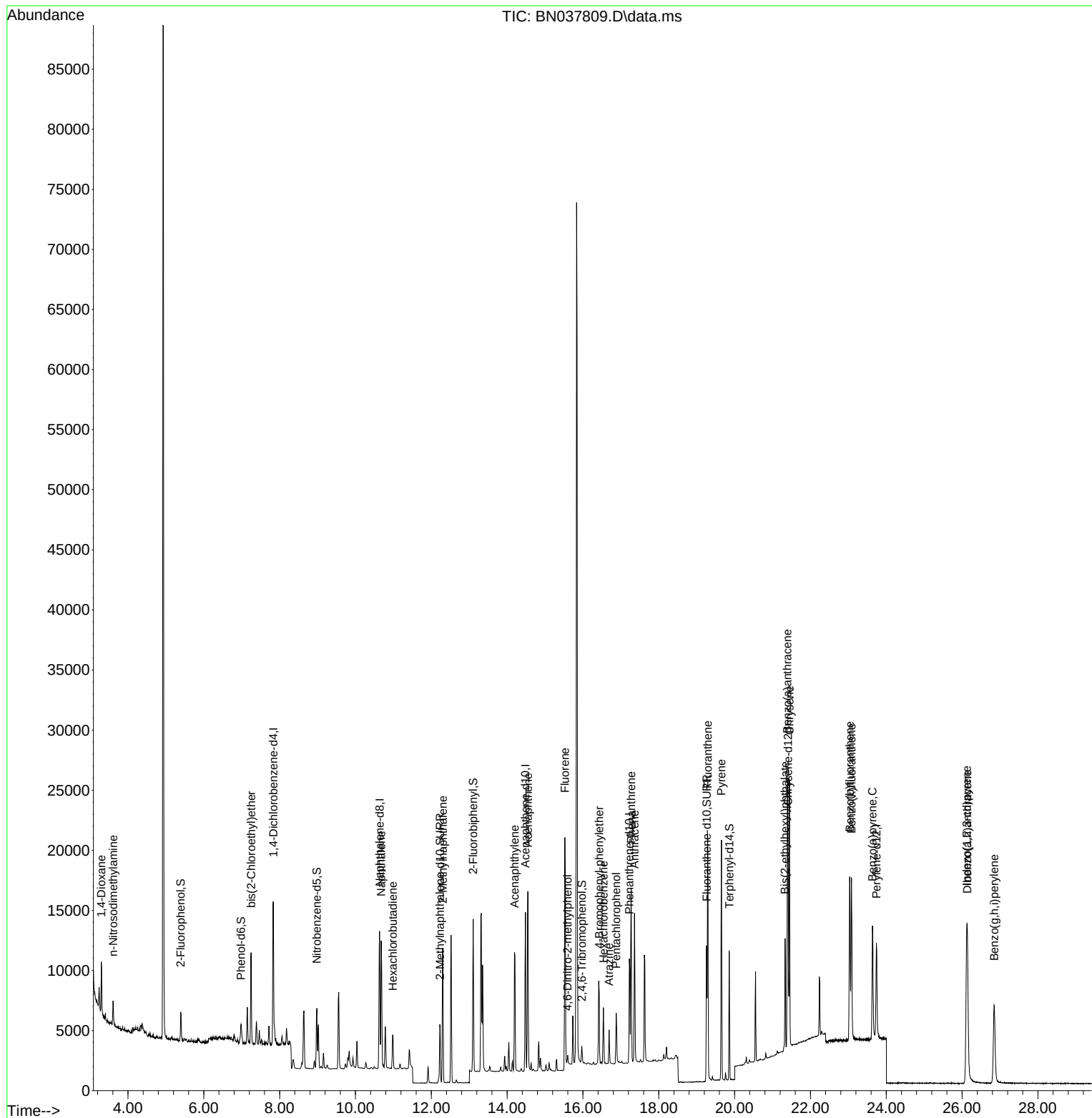
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.832	152	5852	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	15625	0.400	ng	#-0.01
13) Acenaphthene-d10	14.483	164	7051	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	12911	0.400	ng	-0.01
29) Chrysene-d12	21.411	240	12021	0.400	ng	0.00
35) Perylene-d12	23.741	264	11515	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.391	112	1931	0.144	ng	0.00
5) Phenol-d6	6.980	99	1477	0.085	ng	0.00
8) Nitrobenzene-d5	8.982	82	4025	0.352	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	7034	0.340	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	835	0.454	ng	-0.01
15) 2-Fluorobiphenyl	13.104	172	10370	0.352	ng	-0.01
27) Fluoranthene-d10	19.261	212	12452	0.384	ng	0.00
31) Terphenyl-d14	19.861	244	9852	0.404	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	2519	0.413	ng	# 88
3) n-Nitrosodimethylamine	3.607	42	1030	0.129	ng	# 86
6) bis(2-Chloroethyl)ether	7.247	93	5324	0.342	ng	100
9) Naphthalene	10.679	128	14111	0.330	ng	100
10) Hexachlorobutadiene	10.989	225	2383	0.308	ng	# 100
12) 2-Methylnaphthalene	12.303	142	7893	0.299	ng	100
16) Acenaphthylene	14.195	152	11822	0.366	ng	99
17) Acenaphthene	14.548	154	7550	0.345	ng	99
18) Fluorene	15.522	166	10236	0.387	ng	100
20) 4,6-Dinitro-2-methylph...	15.597	198	478	0.400	ng	94
21) 4-Bromophenyl-phenylether	16.428	248	2963	0.352	ng	99
22) Hexachlorobenzene	16.540	284	3549	0.366	ng	98
23) Atrazine	16.689	200	2033	0.380	ng	95
24) Pentachlorophenol	16.875	266	2175	0.774	ng	96
25) Phenanthrene	17.272	178	15526	0.382	ng	100
26) Anthracene	17.359	178	13174	0.366	ng	99
28) Fluoranthene	19.289	202	17140	0.384	ng	# 95
30) Pyrene	19.652	202	17451	0.371	ng	99
32) Benzo(a)anthracene	21.393	228	16723	0.399	ng	100
33) Chrysene	21.447	228	17844	0.397	ng	99
34) Bis(2-ethylhexyl)phtha...	21.330	149	6260	0.504	ng	97
36) Indeno(1,2,3-cd)pyrene	26.121	276	18885	0.390	ng	99
37) Benzo(b)fluoranthene	23.037	252	18300	0.404	ng	97
38) Benzo(k)fluoranthene	23.080	252	18144	0.392	ng	98
39) Benzo(a)pyrene	23.636	252	14555	0.401	ng	98
40) Dibenzo(a,h)anthracene	26.141	278	15061	0.390	ng	98
41) Benzo(g,h,i)perylene	26.846	276	14961	0.345	ng	97

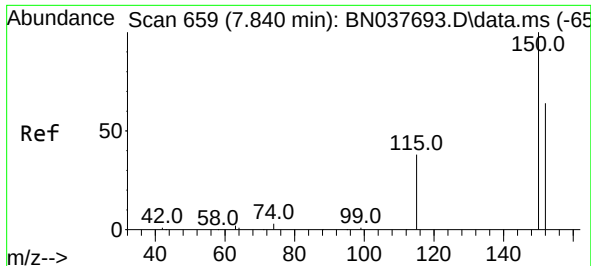
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037809.D
Acq On : 19 Sep 2025 11:50
Operator : RC/JU
Sample : Q3127-14MS
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS

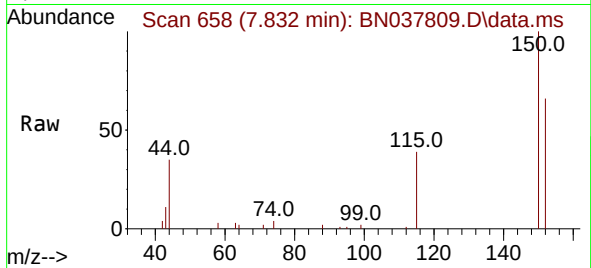
Quant Time: Sep 19 12:26:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



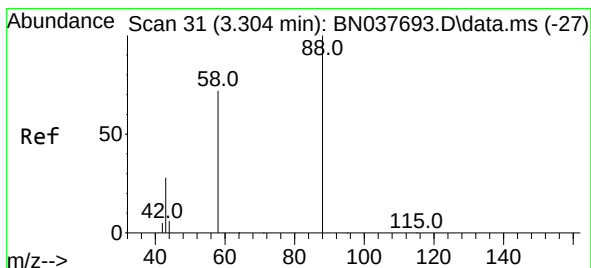
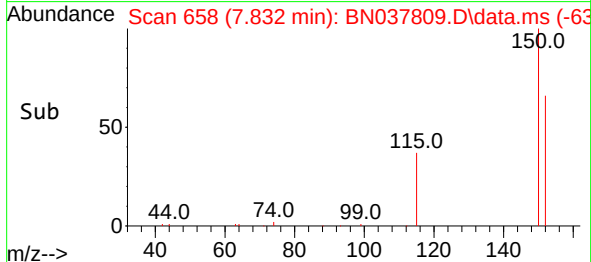
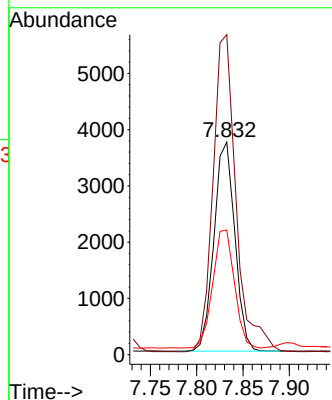


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.832 min Scan# 61
 Delta R.T. -0.008 min
 Lab File: BN037809.D
 Acq: 19 Sep 2025 11:50

Instrument :
 BNA_N
 ClientSampleId :
 TT119S1-20250916MS

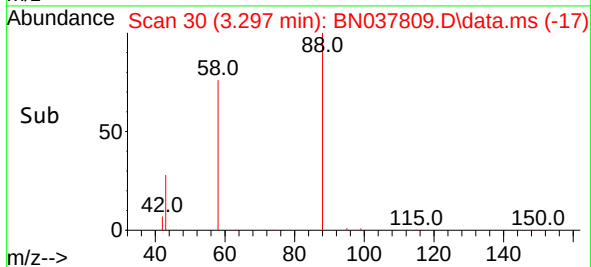
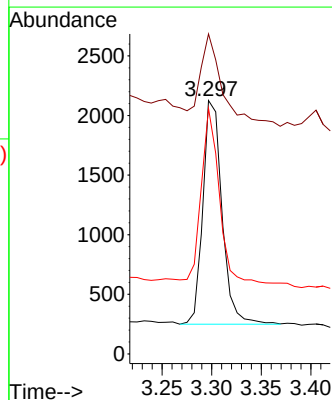
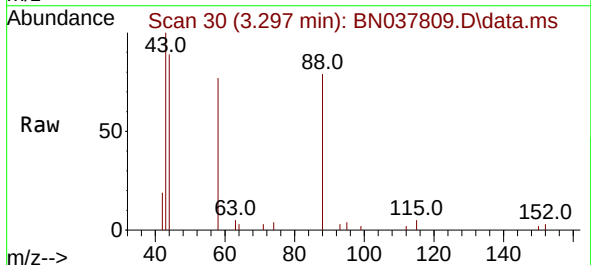


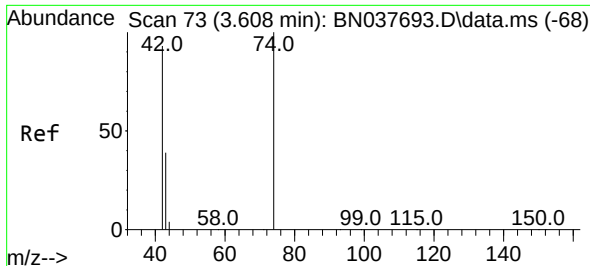
Tgt Ion:152 Resp: 5852
 Ion Ratio Lower Upper
 152 100
 150 150.5 124.5 186.7
 115 58.7 49.2 73.8



#2
 1,4-Dioxane
 Concen: 0.413 ng
 RT: 3.297 min Scan# 30
 Delta R.T. -0.008 min
 Lab File: BN037809.D
 Acq: 19 Sep 2025 11:50

Tgt Ion: 88 Resp: 2519
 Ion Ratio Lower Upper
 88 100
 43 48.7 26.8 40.2#
 58 72.2 61.9 92.9

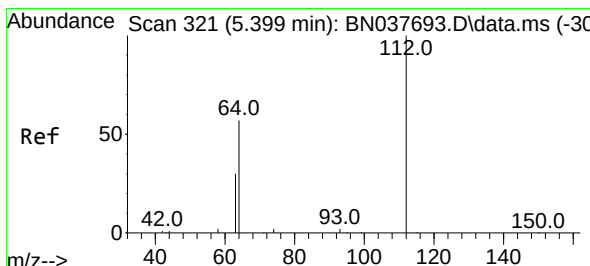
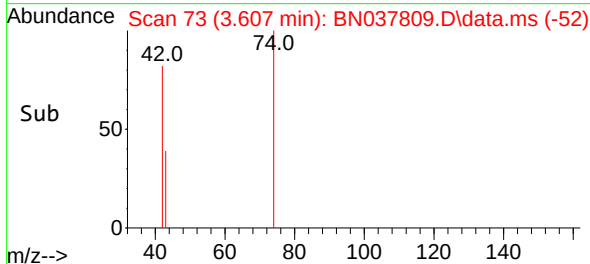
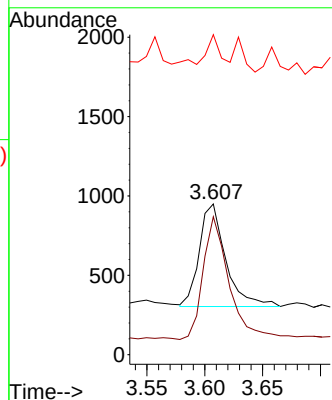
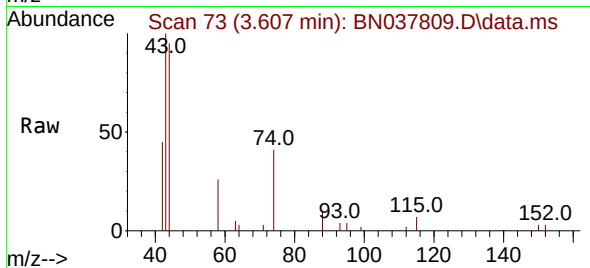




#3
n-Nitrosodimethylamine
Concen: 0.129 ng
RT: 3.607 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

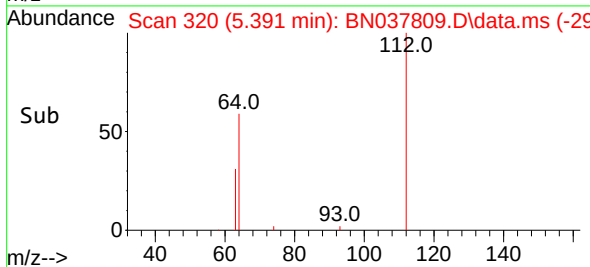
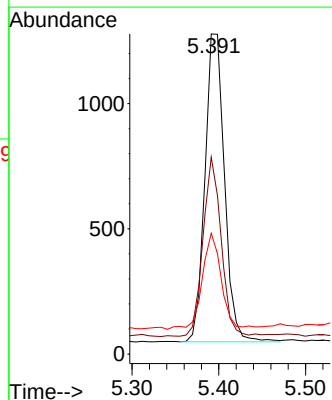
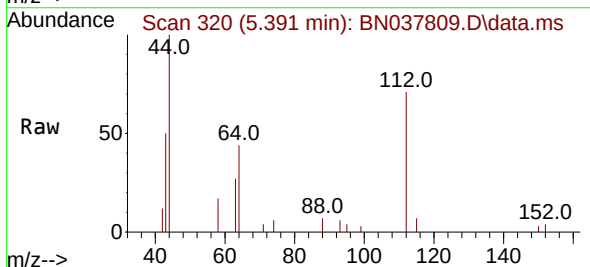
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS

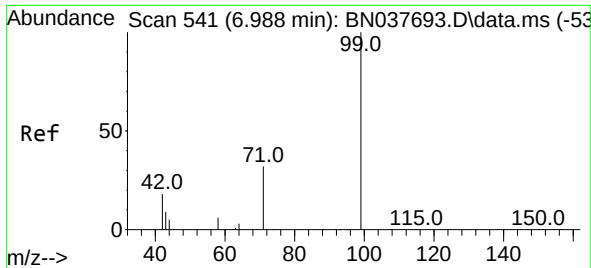
Tgt Ion: 42 Resp: 1030
Ion Ratio Lower Upper
42 100
74 122.8 86.0 129.0
44 13.6 8.4 12.6#



#4
2-Fluorophenol
Concen: 0.144 ng
RT: 5.391 min Scan# 320
Delta R.T. -0.008 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

Tgt Ion: 112 Resp: 1931
Ion Ratio Lower Upper
112 100
64 54.7 44.9 67.3
63 30.0 24.7 37.1

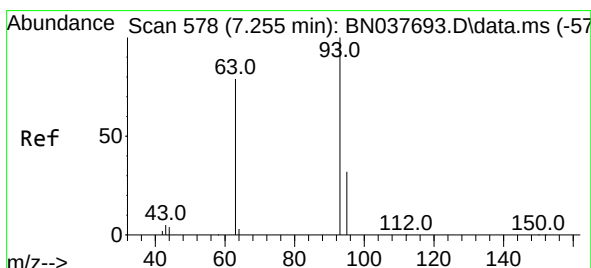
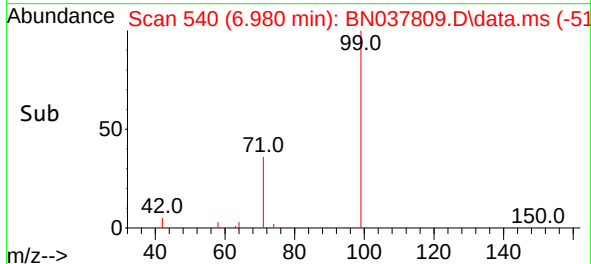
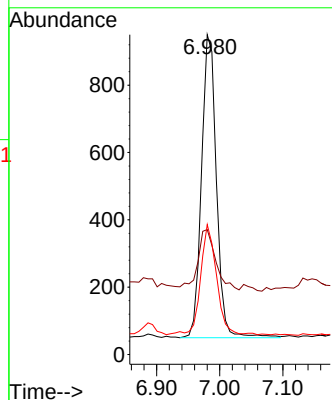
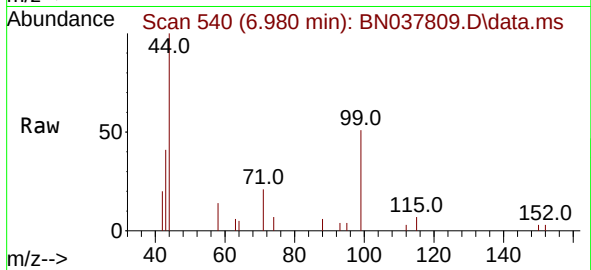




#5
Phenol-d6
Concen: 0.085 ng
RT: 6.980 min Scan# 541
Delta R.T. -0.008 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

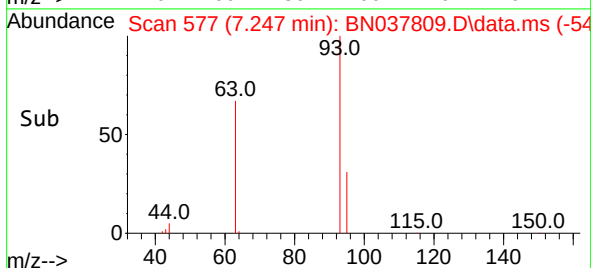
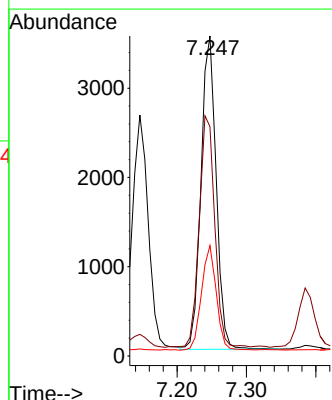
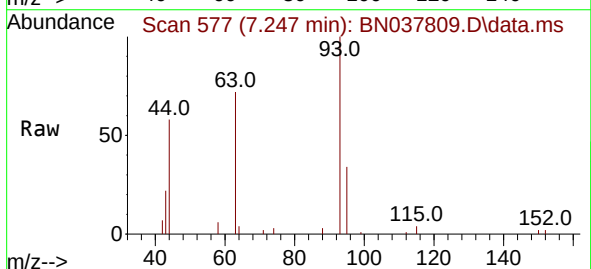
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS

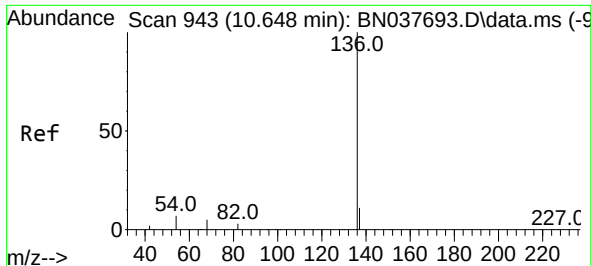
Tgt Ion: 99 Resp: 1477
Ion Ratio Lower Upper
99 100
42 23.6 16.6 24.8
71 38.5 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.342 ng
RT: 7.247 min Scan# 577
Delta R.T. -0.008 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

Tgt Ion: 93 Resp: 5324
Ion Ratio Lower Upper
93 100
63 75.8 60.6 90.8
95 32.5 26.0 39.0

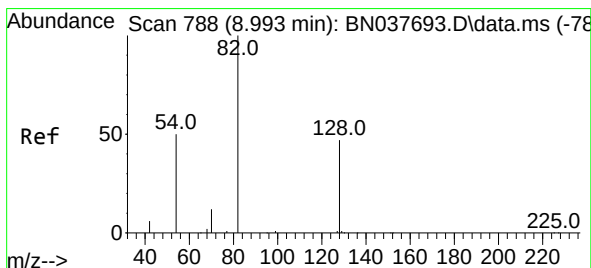
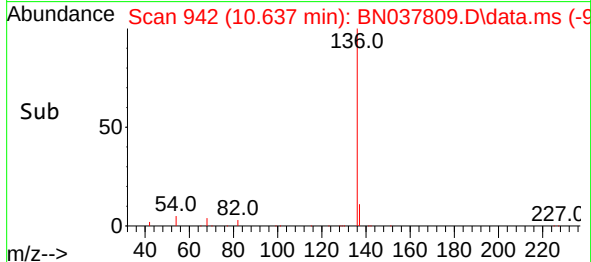
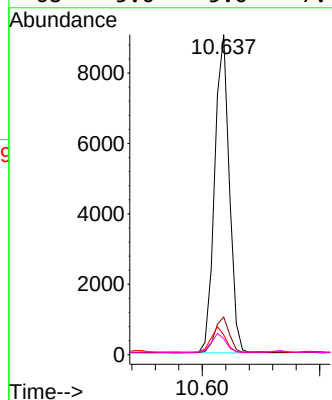
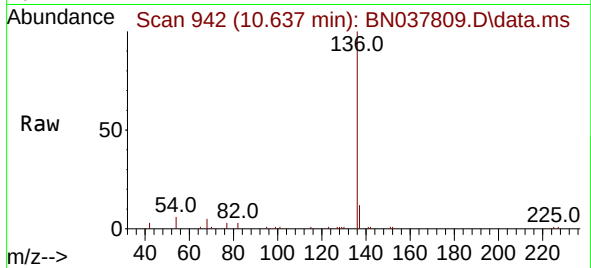




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

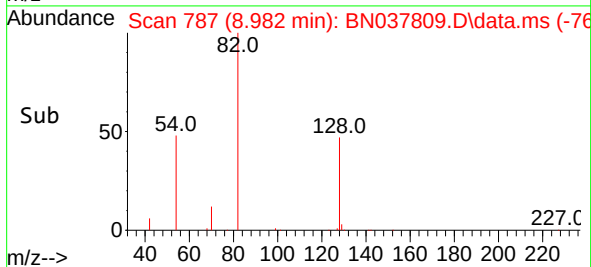
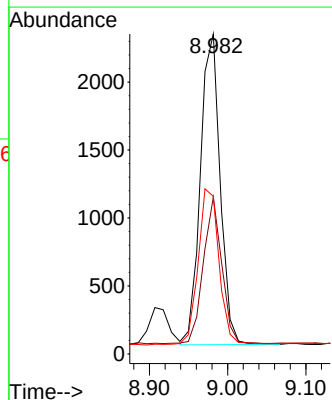
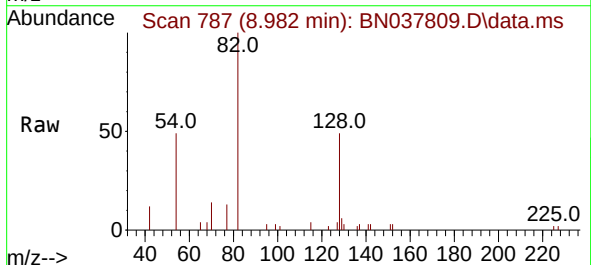
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS

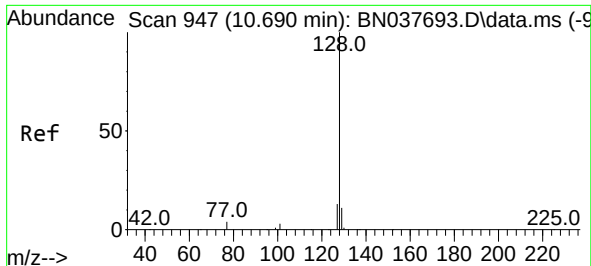
Tgt Ion:	136	Resp:	15625
Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.1	13.7
54	6.2	6.3	9.5#
68	5.0	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.352 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

Tgt Ion:	82	Resp:	4025
Ion	Ratio	Lower	Upper
82	100		
128	49.0	38.3	57.5
54	49.2	41.4	62.2

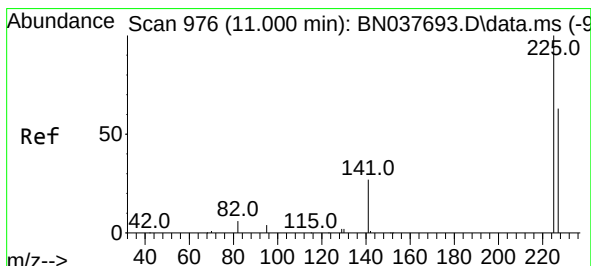
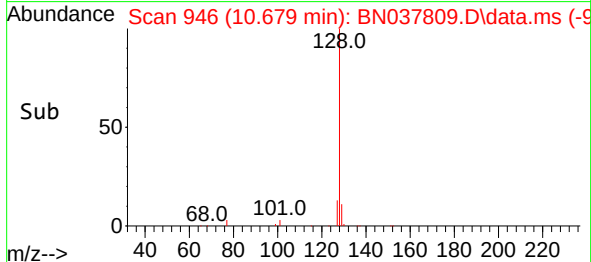
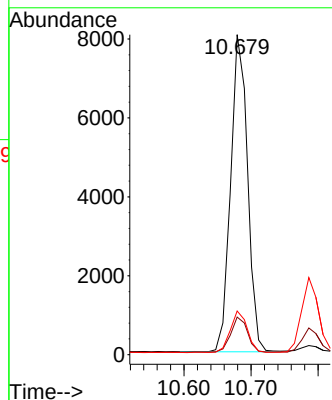
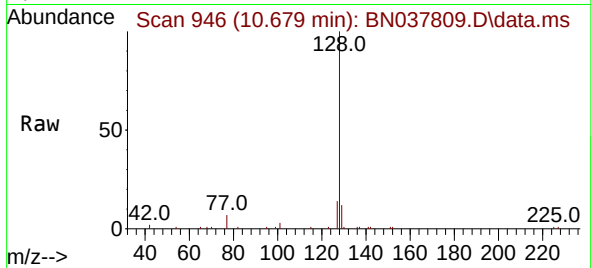




#9
Naphthalene
Concen: 0.330 ng
RT: 10.679 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

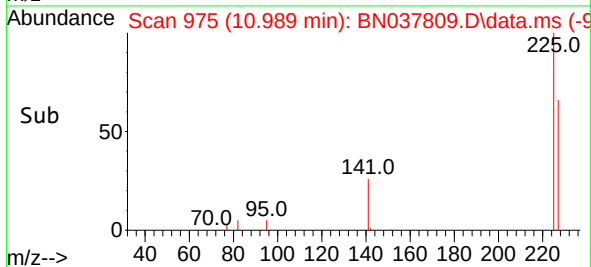
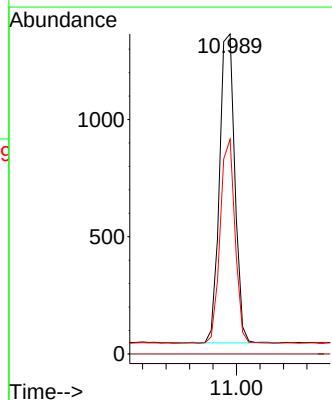
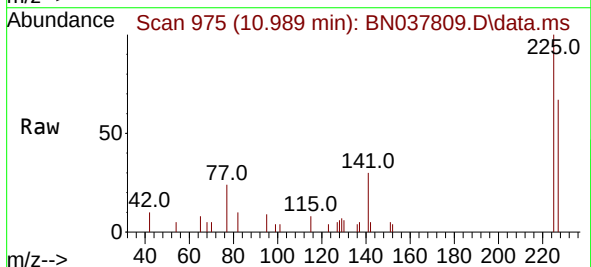
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS

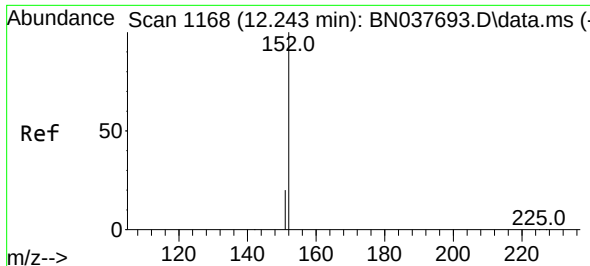
Tgt Ion:128	Resp:	14111
Ion Ratio	Lower	Upper
128	100	
129	11.7	9.1 13.7
127	13.6	10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.308 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

Tgt Ion:225	Resp:	2383
Ion Ratio	Lower	Upper
225	100	
223	0.0	0.0 0.0
227	63.7	50.9 76.3

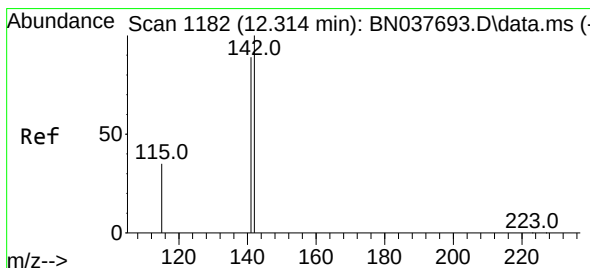
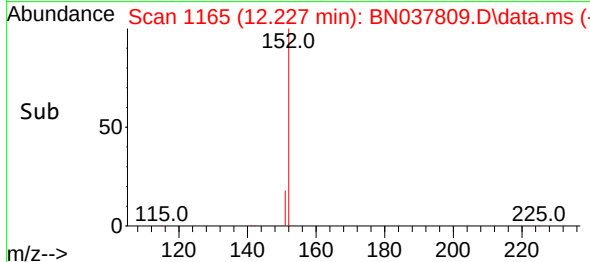
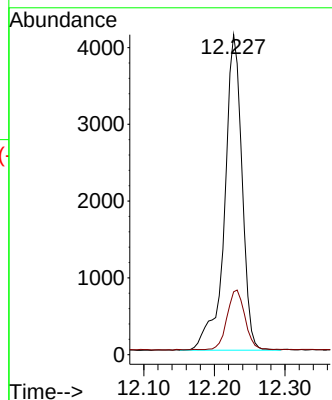
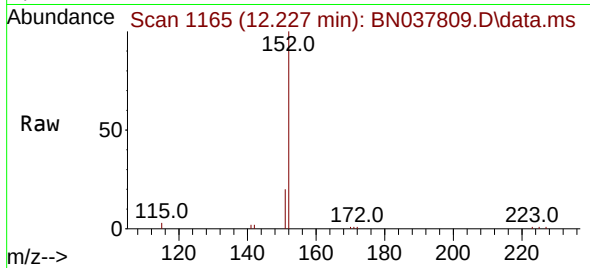




#11
2-Methylnaphthalene-d10
Concen: 0.340 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.016 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

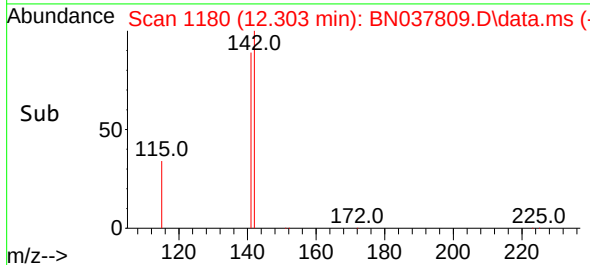
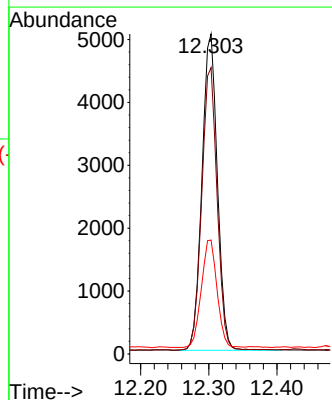
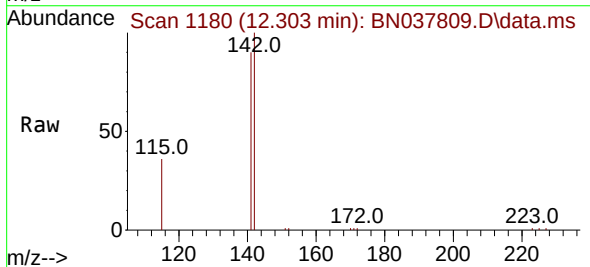
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS

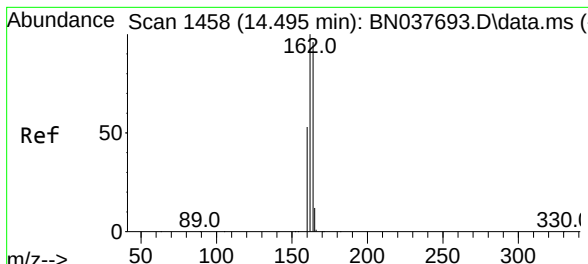
Tgt Ion:152 Resp: 7034
Ion Ratio Lower Upper
152 100
151 19.2 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.299 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.011 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

Tgt Ion:142 Resp: 7893
Ion Ratio Lower Upper
142 100
141 89.5 71.6 107.4
115 35.6 28.6 43.0

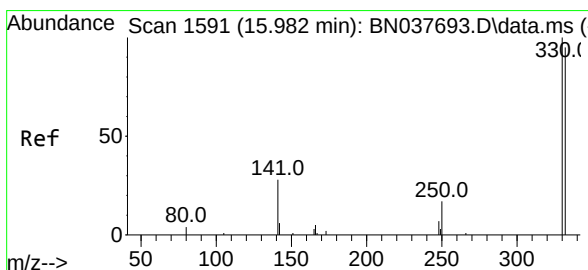
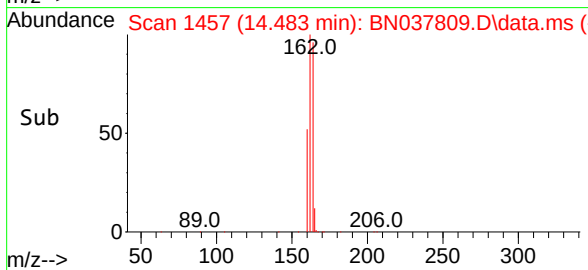
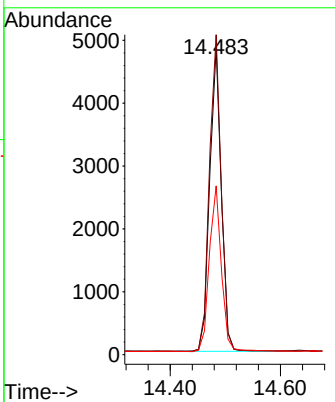
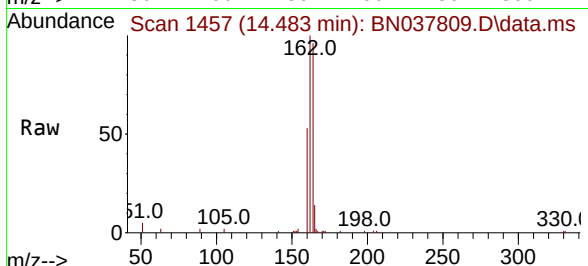




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.483 min Scan# 14
 Delta R.T. -0.011 min
 Lab File: BN037809.D
 Acq: 19 Sep 2025 11:50

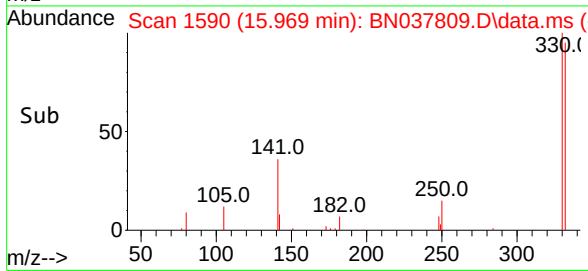
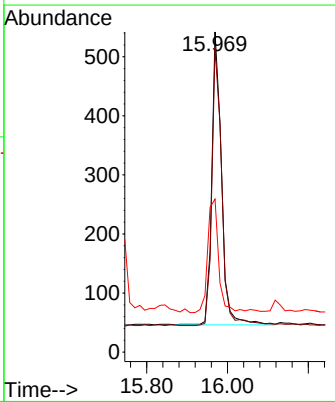
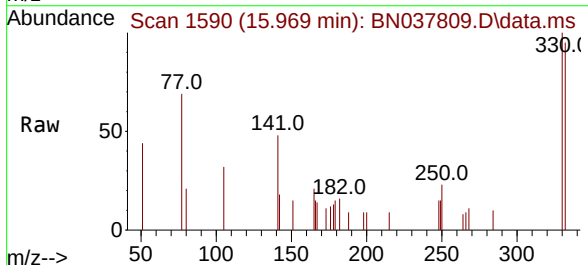
Instrument :
 BNA_N
 ClientSampleId :
 TT119S1-20250916MS

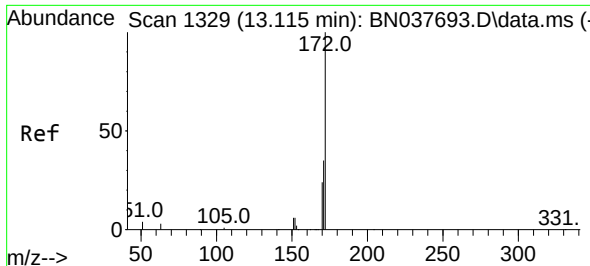
Tgt Ion:	164	Resp:	7051
Ion Ratio	Lower	Upper	
164	100		
162	104.2	83.1	124.7
160	55.0	44.3	66.5



#14
 2,4,6-Tribromophenol
 Concen: 0.454 ng
 RT: 15.969 min Scan# 1590
 Delta R.T. -0.013 min
 Lab File: BN037809.D
 Acq: 19 Sep 2025 11:50

Tgt Ion:	330	Resp:	835
Ion Ratio	Lower	Upper	
330	100		
332	95.9	75.3	112.9
141	43.2	35.0	52.4

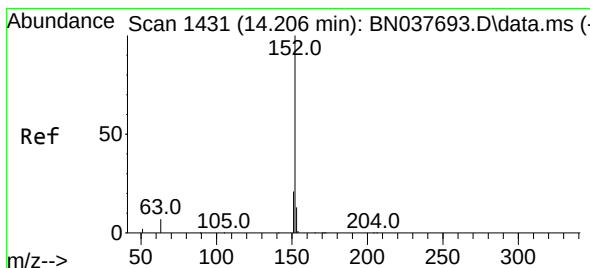
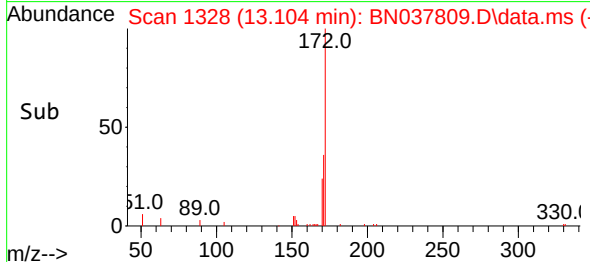
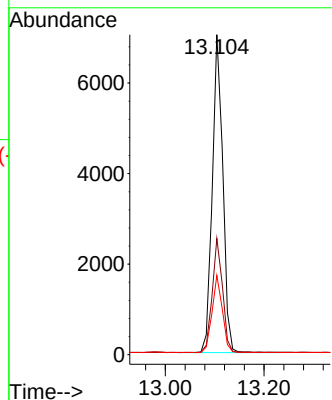
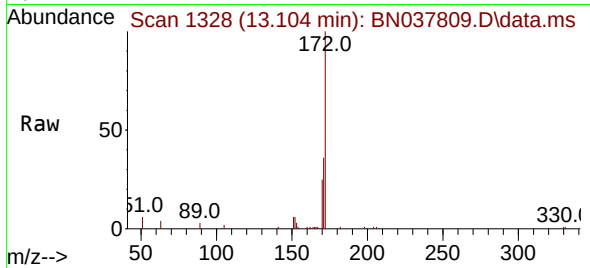




#15
2-Fluorobiphenyl
Concen: 0.352 ng
RT: 13.104 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

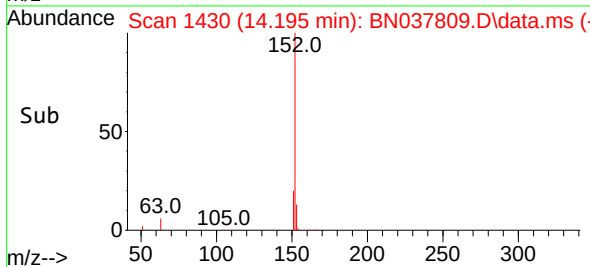
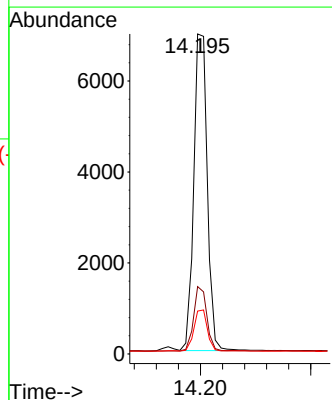
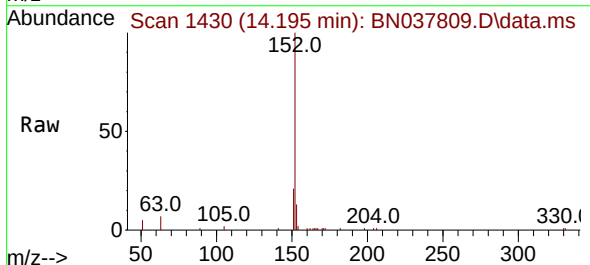
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS

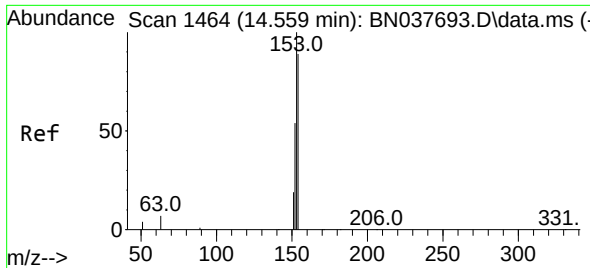
Tgt Ion:172	Resp:	10370
Ion Ratio	Lower	Upper
172	100	
171	36.3	28.6 43.0
170	24.8	19.8 29.8



#16
Acenaphthylene
Concen: 0.366 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.011 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

Tgt Ion:152	Resp:	11822
Ion Ratio	Lower	Upper
152	100	
151	19.8	16.2 24.2
153	13.4	10.4 15.6

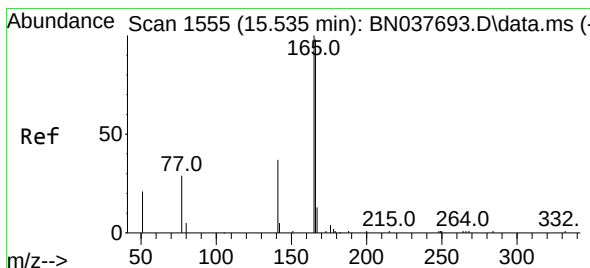
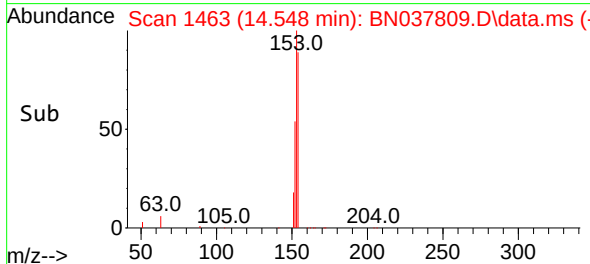
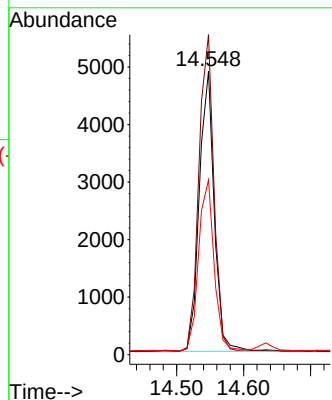
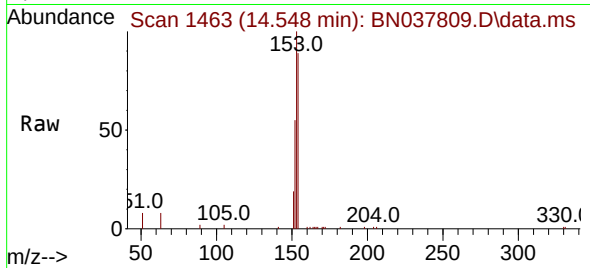




#17
Acenaphthene
Concen: 0.345 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

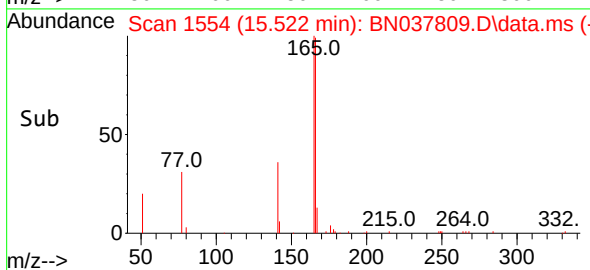
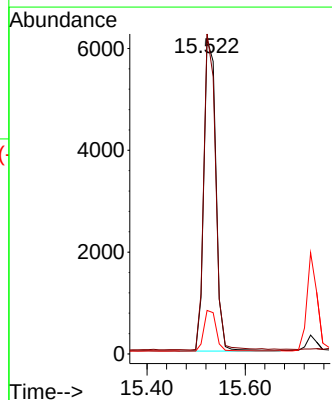
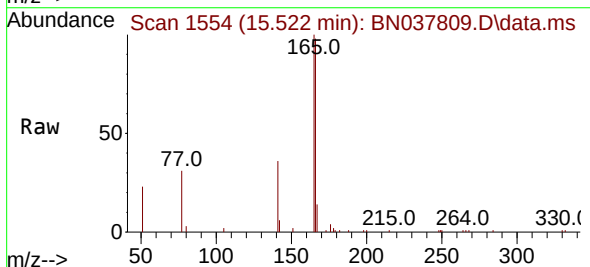
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS

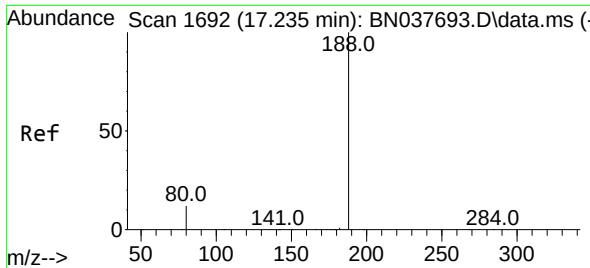
Tgt Ion:154 Resp: 7550
Ion Ratio Lower Upper
154 100
153 113.6 89.8 134.8
152 63.1 50.2 75.2



#18
Fluorene
Concen: 0.387 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.013 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

Tgt Ion:166 Resp: 10236
Ion Ratio Lower Upper
166 100
165 99.9 79.6 119.4
167 13.5 10.6 16.0

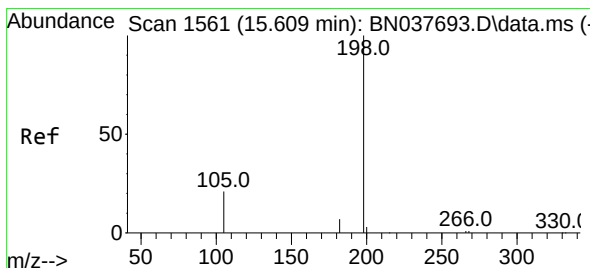
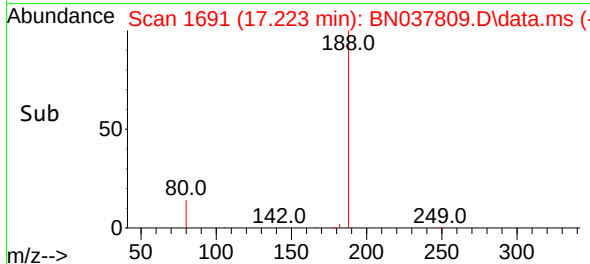
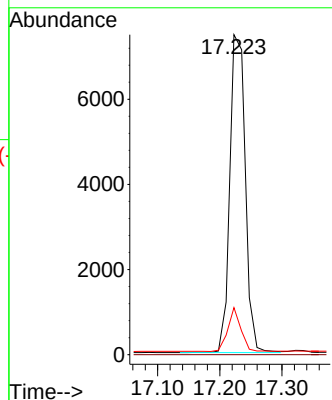
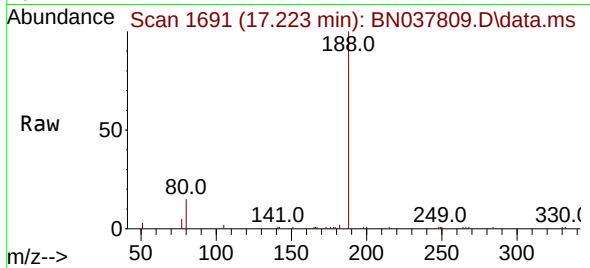




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

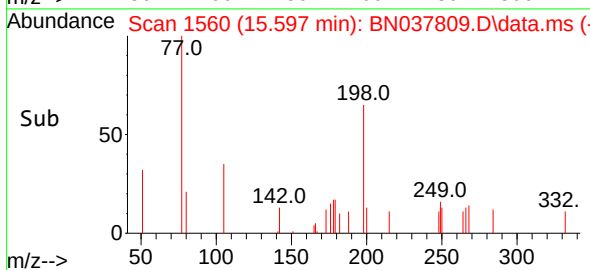
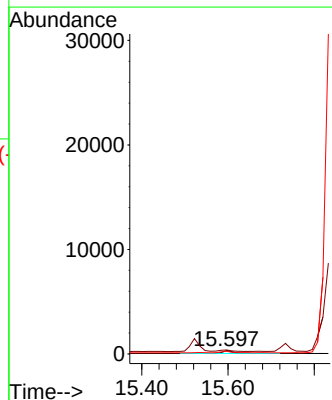
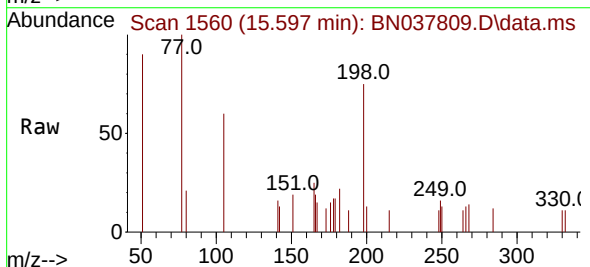
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS

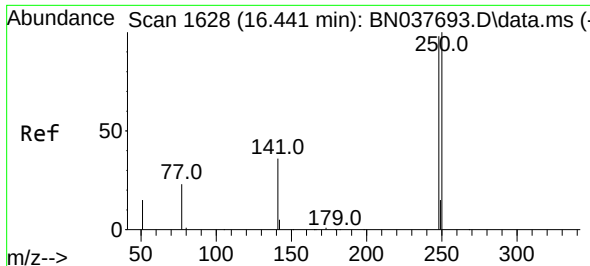
Tgt Ion:188 Resp: 12911
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 14.7 10.6 15.8



#20
4,6-Dinitro-2-methylphenol
Concen: 0.400 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.012 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

Tgt Ion:198 Resp: 478
Ion Ratio Lower Upper
198 100
51 119.6 95.1 142.7
105 79.2 53.8 80.6

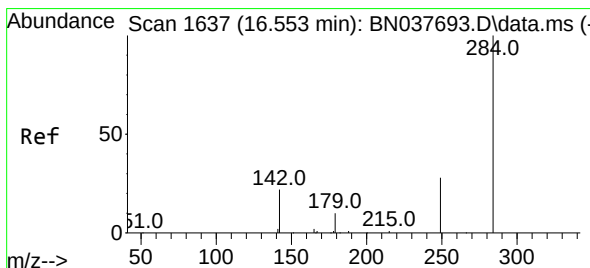
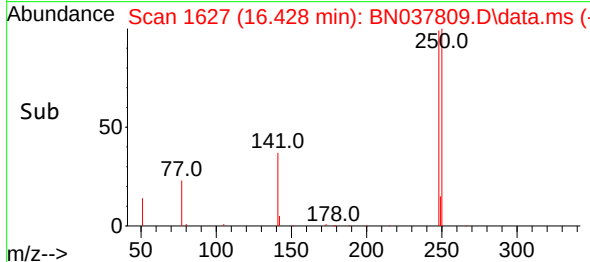
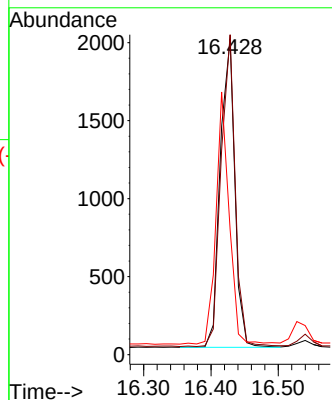
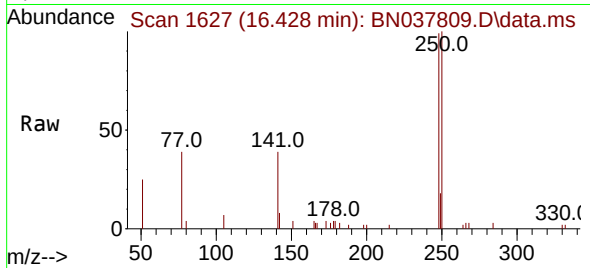




#21
4-Bromophenyl-phenylether
Concen: 0.352 ng
RT: 16.428 min Scan# 1627
Delta R.T. -0.013 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

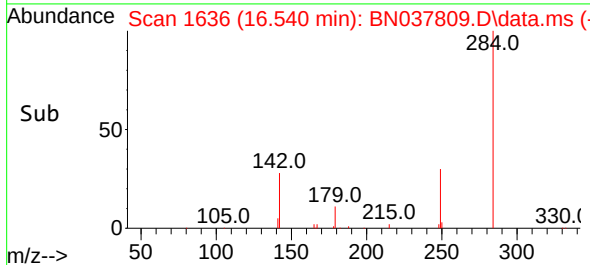
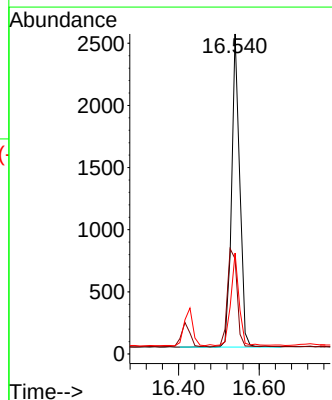
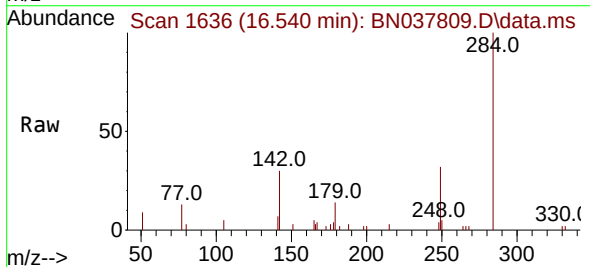
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS

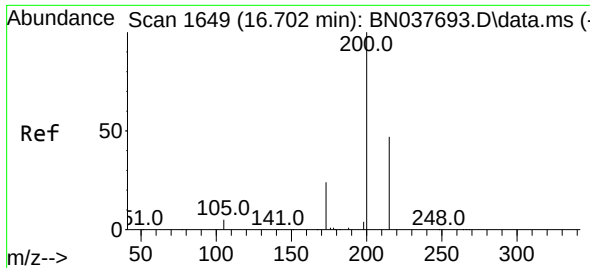
Tgt Ion:	248	Resp:	2963
Ion Ratio	Lower	Upper	
248	100		
250	101.4	81.5	122.3
141	39.6	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.366 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

Tgt Ion:	284	Resp:	3549
Ion Ratio	Lower	Upper	
284	100		
142	37.5	30.9	46.3
249	30.1	24.8	37.2

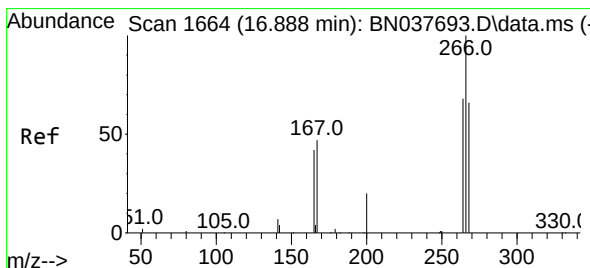
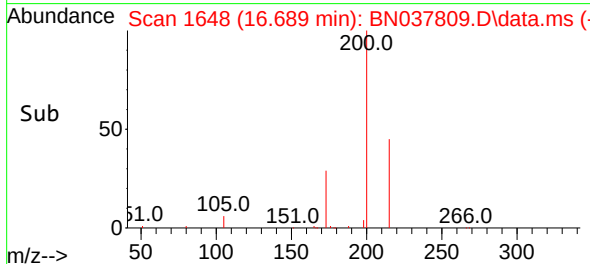
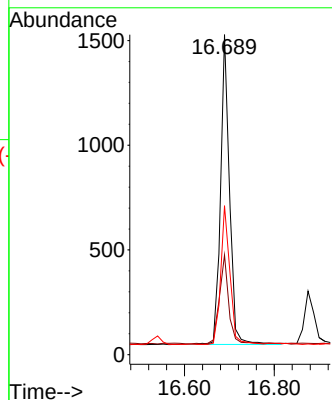
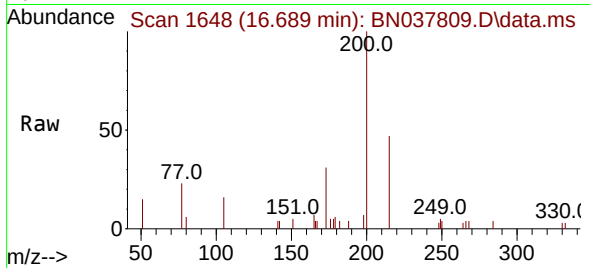




#23
Atrazine
Concen: 0.380 ng
RT: 16.689 min Scan# 1663
Delta R.T. -0.013 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

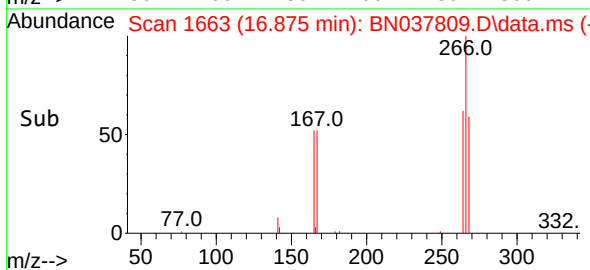
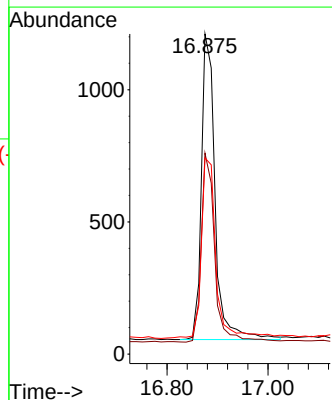
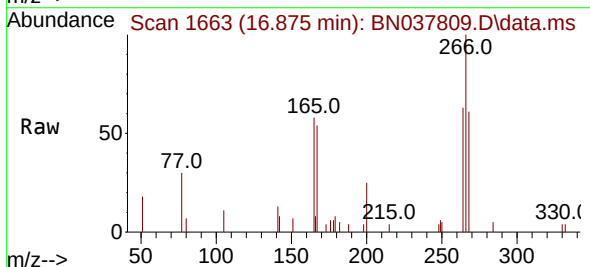
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS

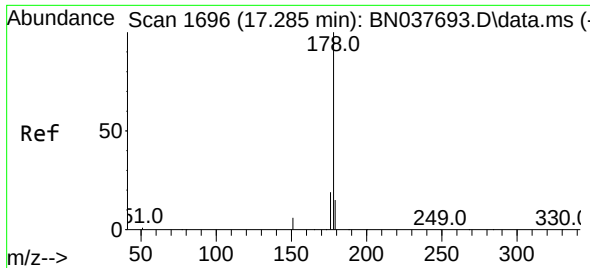
Tgt Ion:200 Resp: 2033
Ion Ratio Lower Upper
200 100
173 31.2 21.4 32.2
215 46.5 39.2 58.8



#24
Pentachlorophenol
Concen: 0.774 ng
RT: 16.875 min Scan# 1663
Delta R.T. -0.013 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

Tgt Ion:266 Resp: 2175
Ion Ratio Lower Upper
266 100
264 61.2 51.6 77.4
268 63.7 53.2 79.8

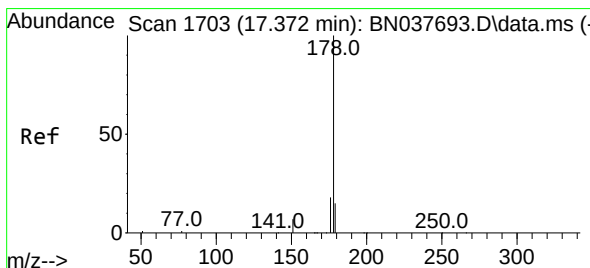
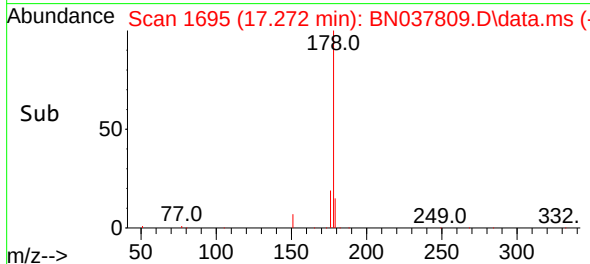
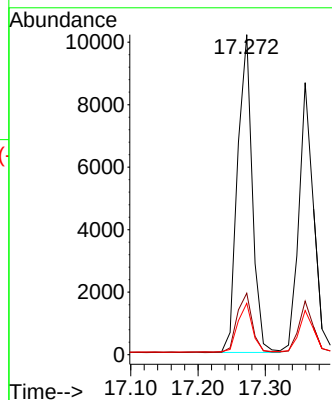
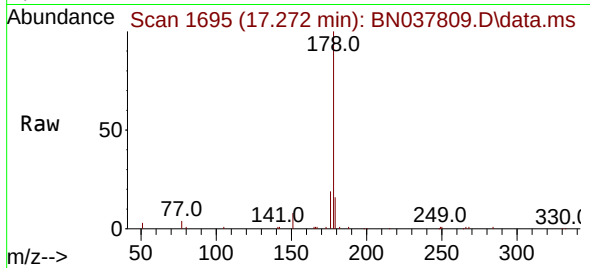




#25
Phenanthrene
Concen: 0.382 ng
RT: 17.272 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

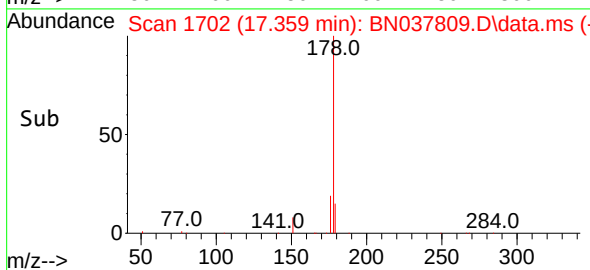
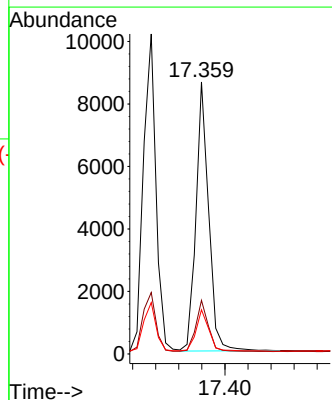
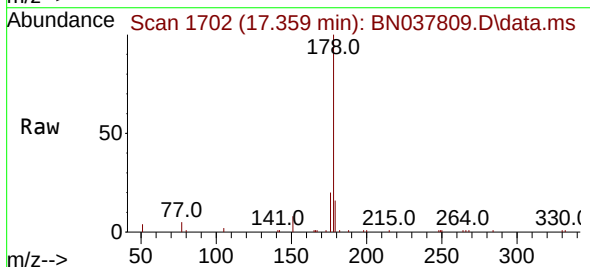
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS

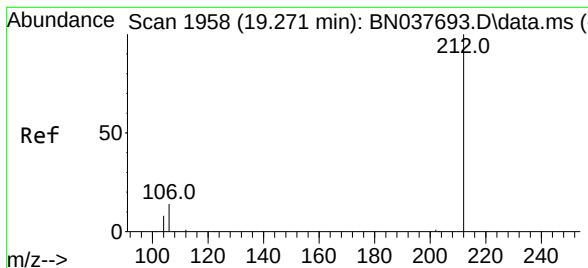
Tgt Ion:178 Resp: 15526
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.4 12.2 18.2



#26
Anthracene
Concen: 0.366 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

Tgt Ion:178 Resp: 13174
Ion Ratio Lower Upper
178 100
176 19.0 14.6 22.0
179 15.6 12.2 18.4





#27

Fluoranthene-d10

Concen: 0.384 ng

RT: 19.261 min Scan# 1956

Delta R.T. -0.010 min

Lab File: BN037809.D

Acq: 19 Sep 2025 11:50

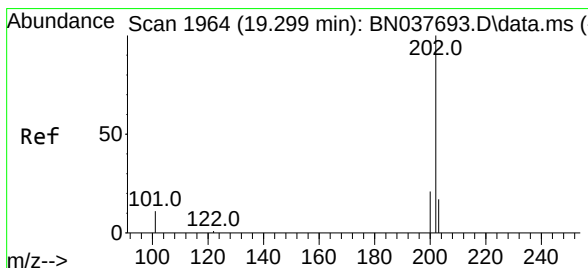
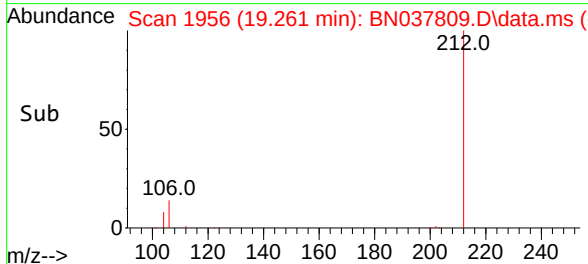
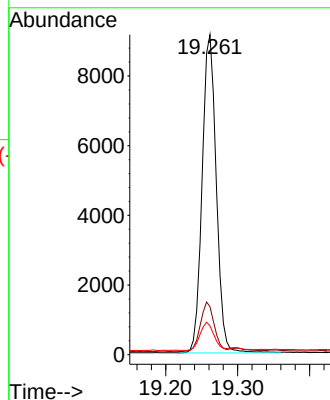
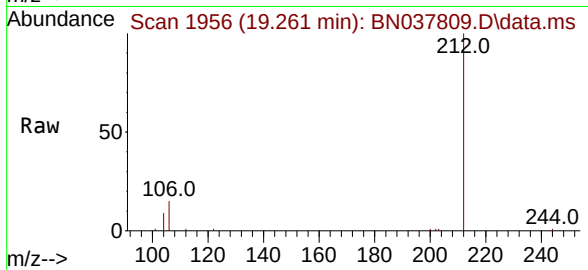
Instrument :

BNA_N

ClientSampleId :

TT119S1-20250916MS

Tgt Ion:212	Resp:	12452
Ion Ratio	Lower	Upper
212	100	
106	15.2	12.2 18.2
104	8.8	6.9 10.3



#28

Fluoranthene

Concen: 0.384 ng

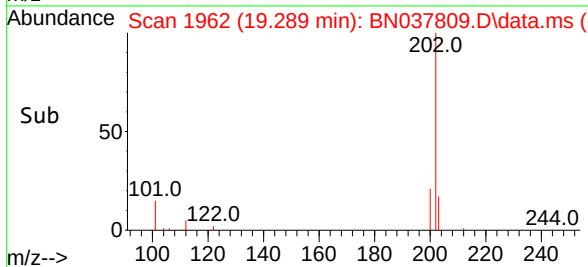
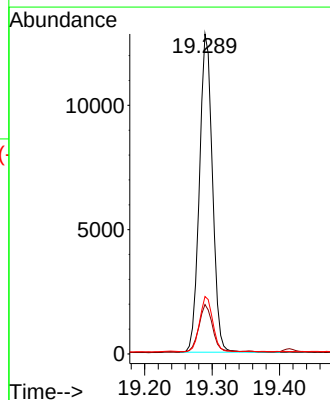
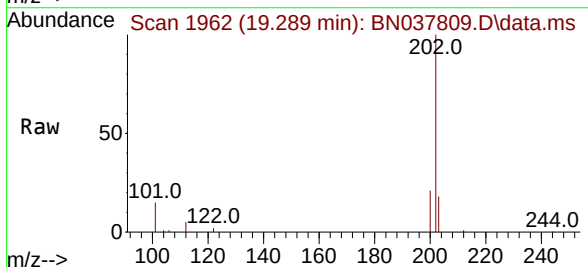
RT: 19.289 min Scan# 1962

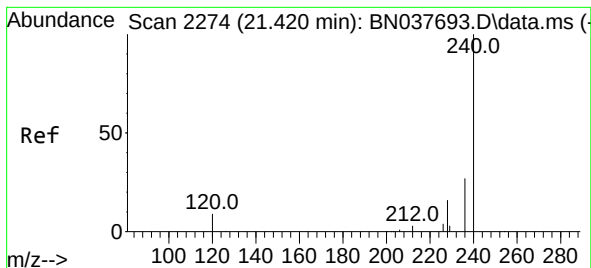
Delta R.T. -0.010 min

Lab File: BN037809.D

Acq: 19 Sep 2025 11:50

Tgt Ion:202	Resp:	17140
Ion Ratio	Lower	Upper
202	100	
101	15.9	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: BN037809.D

Acq: 19 Sep 2025 11:50

Instrument :

BNA_N

ClientSampleId :

TT119S1-20250916MS

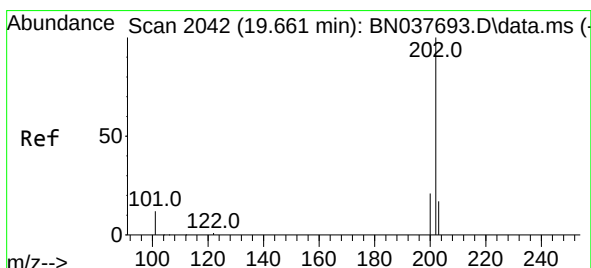
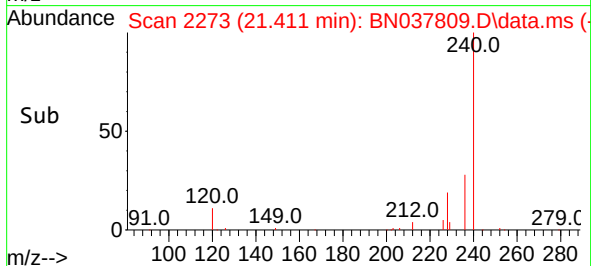
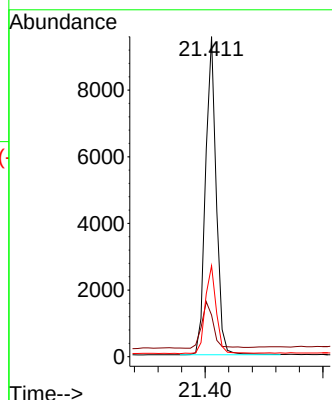
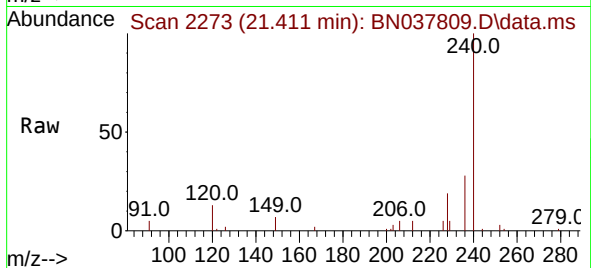
Tgt Ion:240 Resp: 12021

Ion Ratio Lower Upper

240 100

120 13.0 9.2 13.8

236 28.4 22.6 33.8



#30

Pyrene

Concen: 0.371 ng

RT: 19.652 min Scan# 2040

Delta R.T. -0.010 min

Lab File: BN037809.D

Acq: 19 Sep 2025 11:50

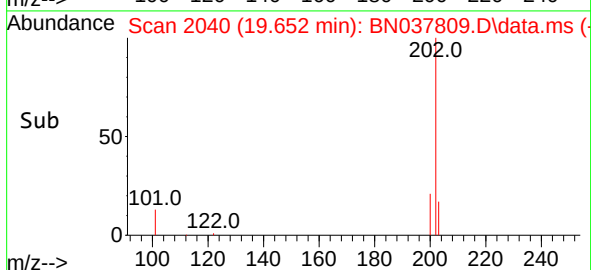
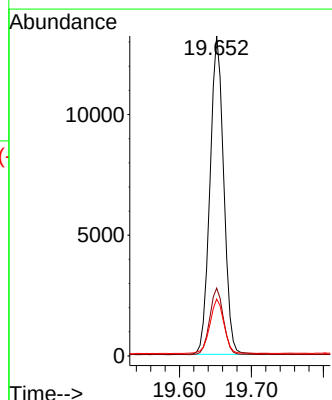
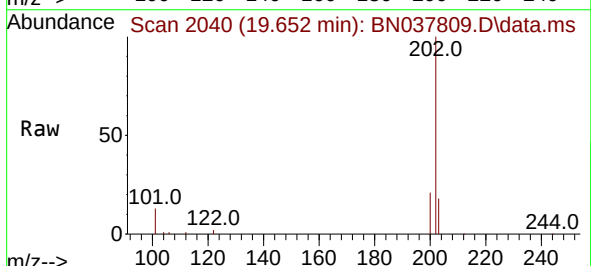
Tgt Ion:202 Resp: 17451

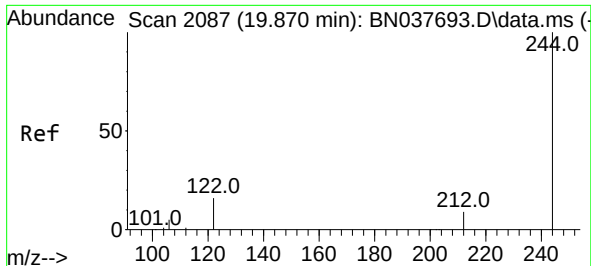
Ion Ratio Lower Upper

202 100

200 20.8 16.8 25.2

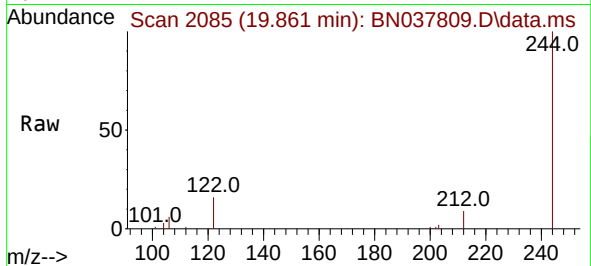
203 17.4 14.3 21.5



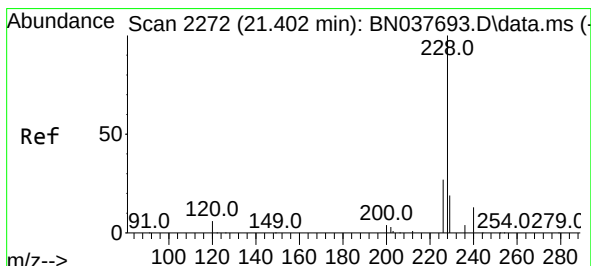
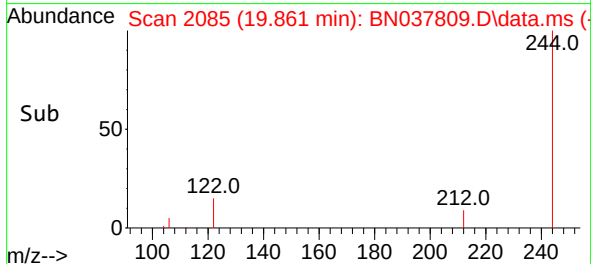
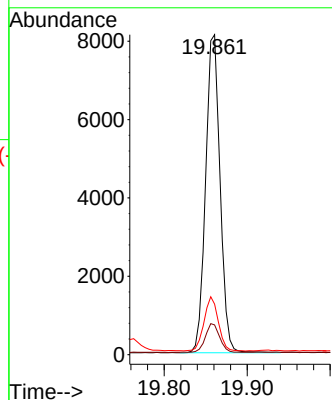


#31
 Terphenyl-d14
 Concen: 0.404 ng
 RT: 19.861 min Scan# 2085
 Delta R.T. -0.010 min
 Lab File: BN037809.D
 Acq: 19 Sep 2025 11:50

Instrument :
 BNA_N
 ClientSampleId :
 TT119S1-20250916MS

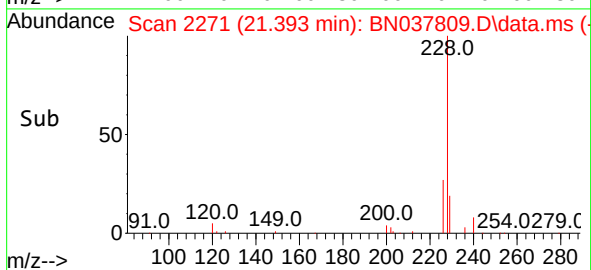
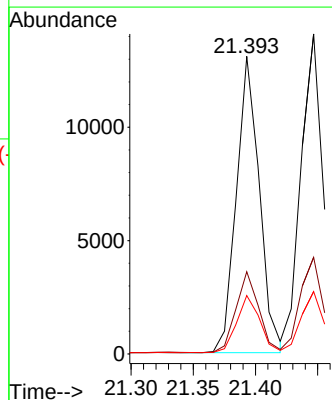
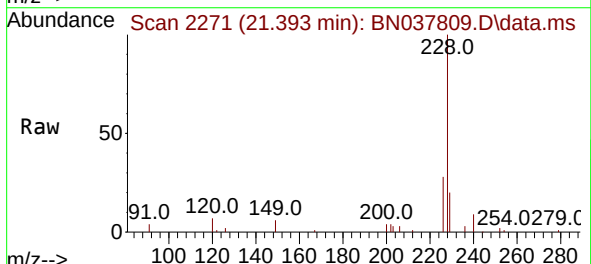


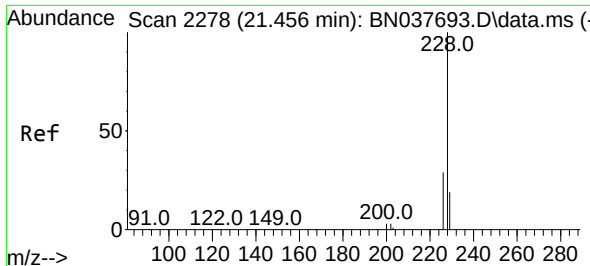
Tgt Ion:244 Resp: 9852
 Ion Ratio Lower Upper
 244 100
 212 9.3 7.5 11.3
 122 15.8 13.2 19.8



#32
 Benzo(a)anthracene
 Concen: 0.399 ng
 RT: 21.393 min Scan# 2271
 Delta R.T. -0.009 min
 Lab File: BN037809.D
 Acq: 19 Sep 2025 11:50

Tgt Ion:228 Resp: 16723
 Ion Ratio Lower Upper
 228 100
 226 27.6 22.2 33.2
 229 19.6 15.8 23.6

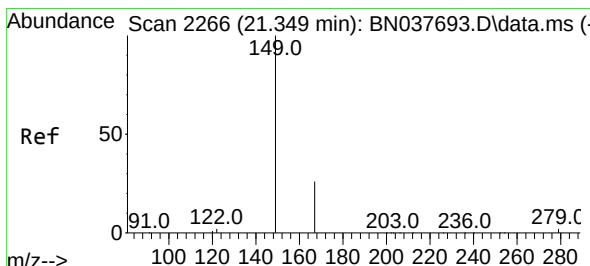
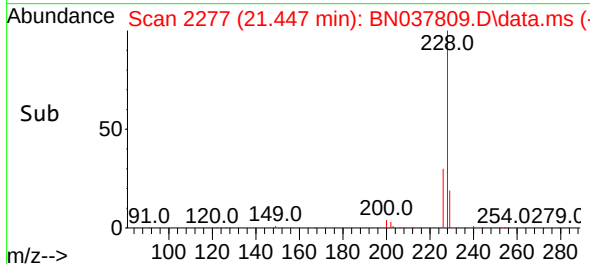
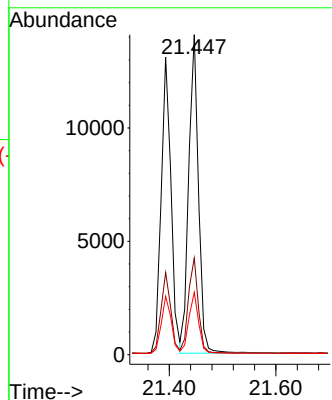
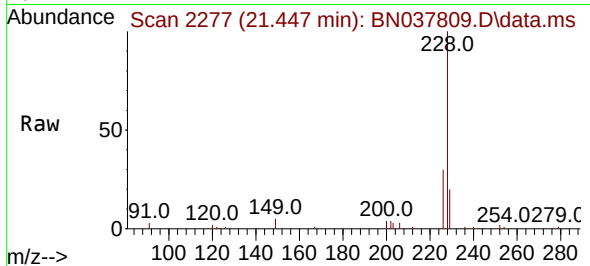




#33
Chrysene
Concen: 0.397 ng
RT: 21.447 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

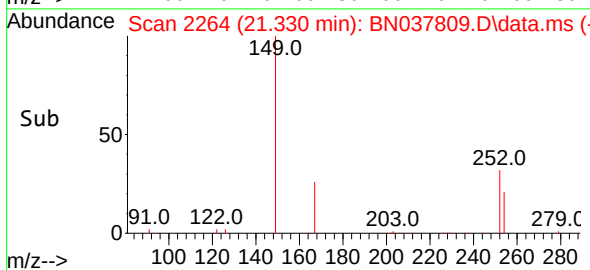
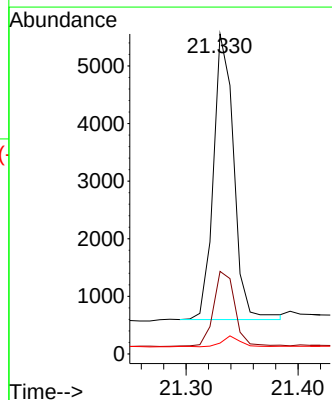
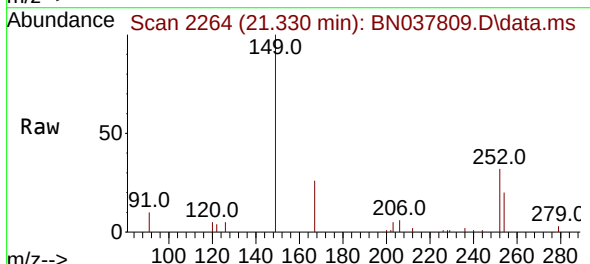
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS

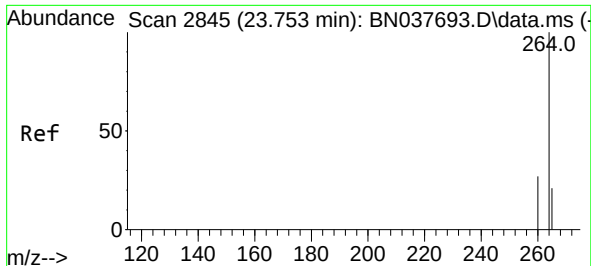
Tgt Ion:	228	Resp:	17844
Ion Ratio	Lower	Upper	
228	100		
226	30.2	23.5	35.3
229	19.5	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.504 ng
RT: 21.330 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

Tgt Ion:	149	Resp:	6260
Ion Ratio	Lower	Upper	
149	100		
167	27.6	20.8	31.2
279	3.5	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: BN037809.D

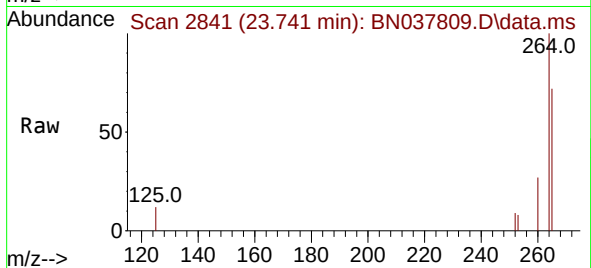
Acq: 19 Sep 2025 11:50

Instrument :

BNA_N

ClientSampleId :

TT119S1-20250916MS



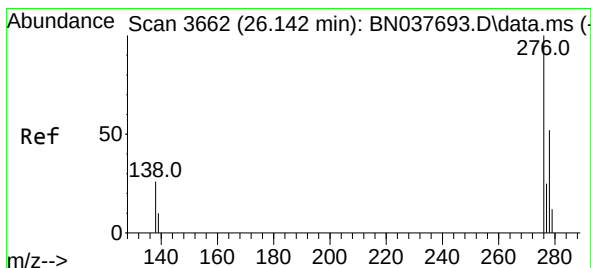
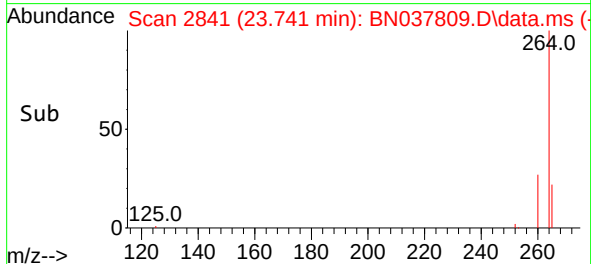
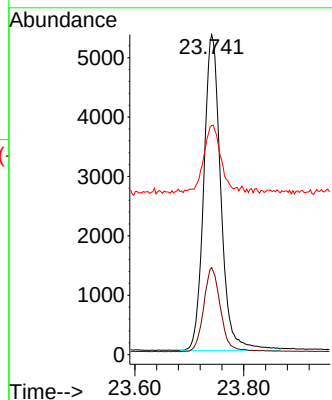
Tgt Ion:264 Resp: 11515

Ion Ratio Lower Upper

264 100

260 27.2 21.8 32.8

265 71.7 39.4 59.2#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.390 ng

RT: 26.121 min Scan# 3655

Delta R.T. -0.021 min

Lab File: BN037809.D

Acq: 19 Sep 2025 11:50

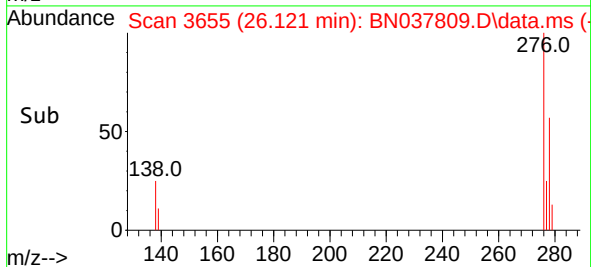
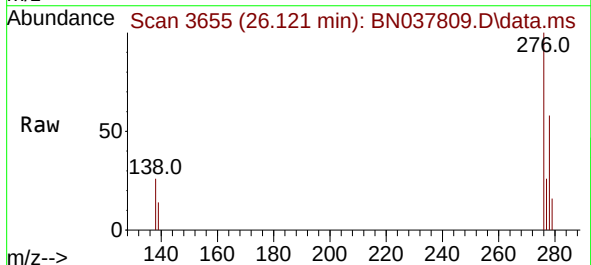
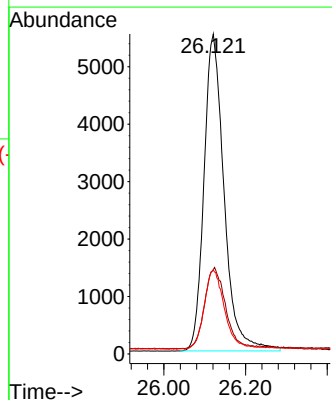
Tgt Ion:276 Resp: 18885

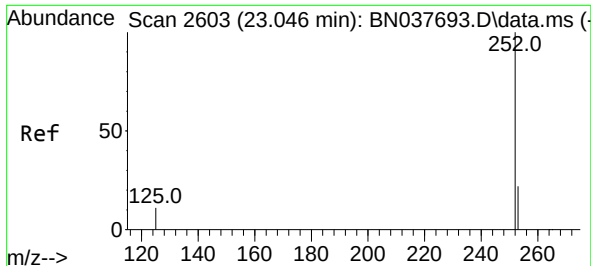
Ion Ratio Lower Upper

276 100

138 26.3 21.9 32.9

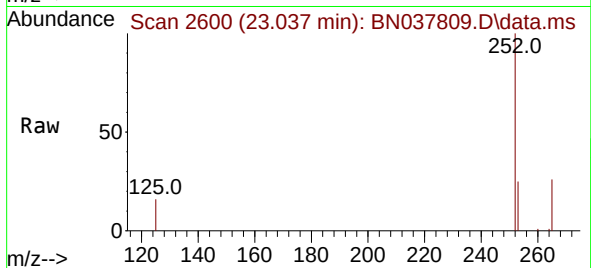
277 25.3 20.1 30.1



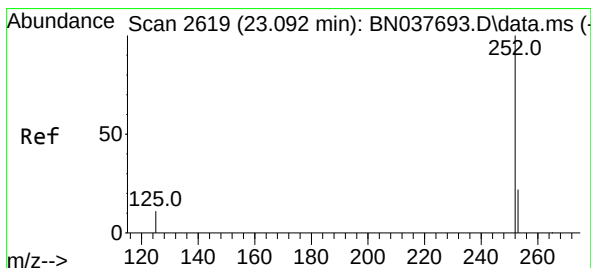
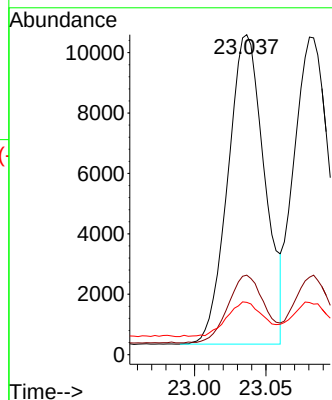


#37
Benzo(b)fluoranthene
Concen: 0.404 ng
RT: 23.037 min Scan# 2600
Delta R.T. -0.009 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS

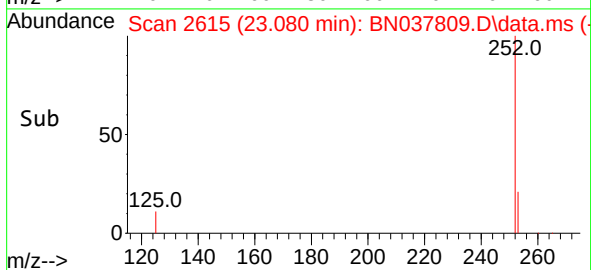
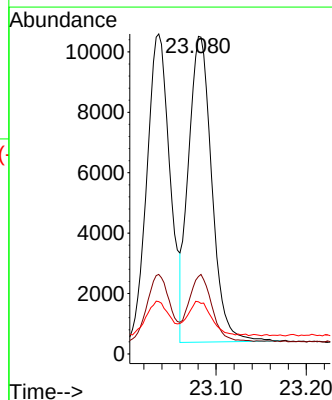
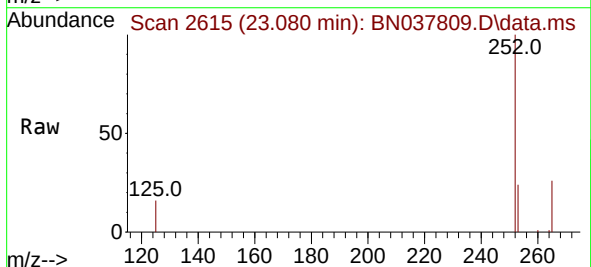


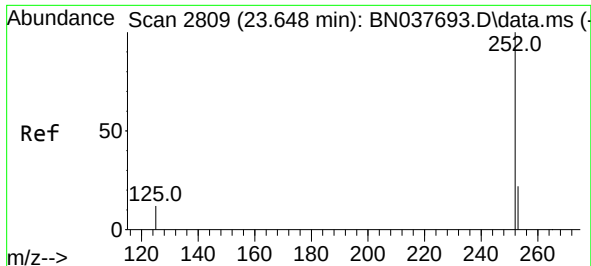
Tgt Ion:252 Resp: 18300
Ion Ratio Lower Upper
252 100
253 24.9 19.4 29.2
125 16.4 11.2 16.8



#38
Benzo(k)fluoranthene
Concen: 0.392 ng
RT: 23.080 min Scan# 2615
Delta R.T. -0.012 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

Tgt Ion:252 Resp: 18144
Ion Ratio Lower Upper
252 100
253 24.4 19.4 29.0
125 16.4 11.6 17.4

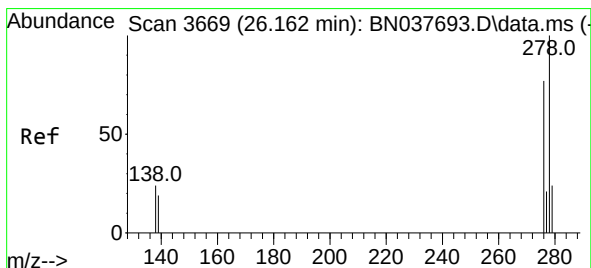
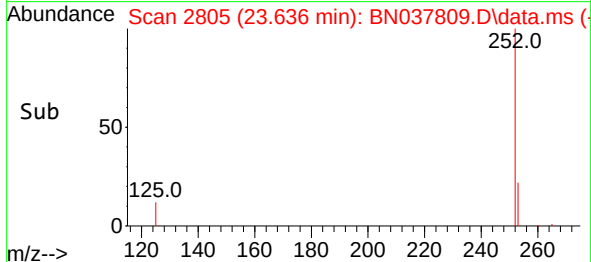
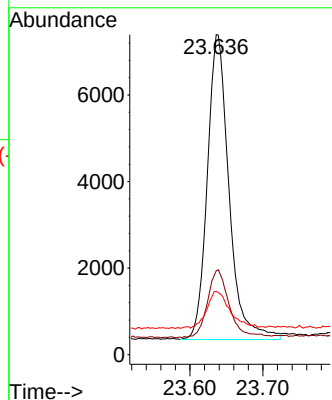
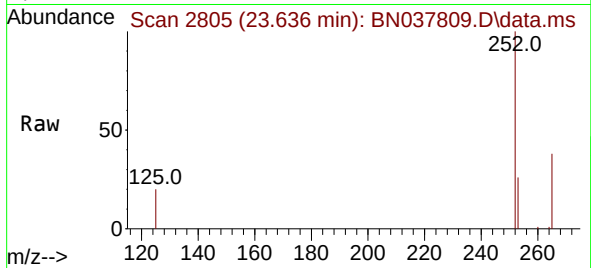




#39
Benzo(a)pyrene
Concen: 0.401 ng
RT: 23.636 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

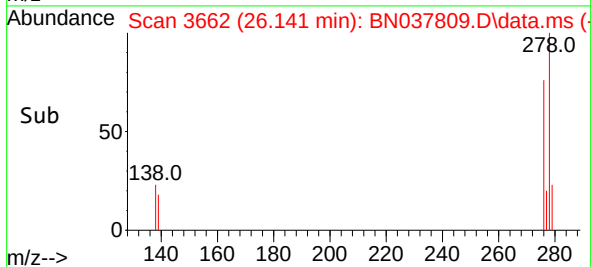
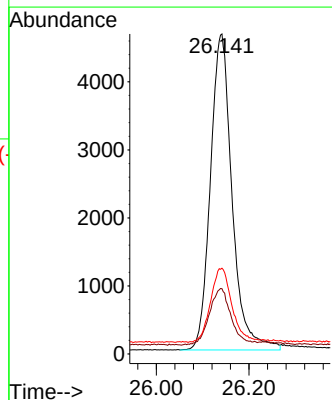
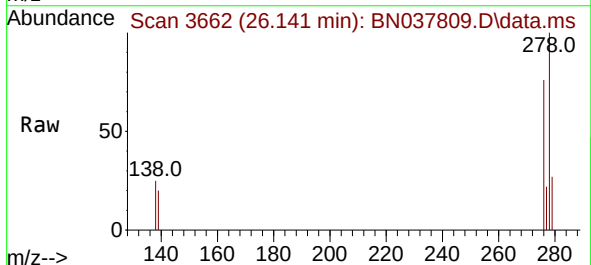
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MS

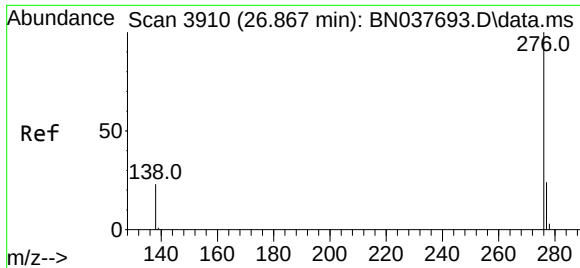
Tgt Ion:252	Resp:	14555
Ion Ratio	Lower	Upper
252	100	
253	26.2	20.8 31.2
125	19.8	13.9 20.9



#40
Dibenzo(a,h)anthracene
Concen: 0.390 ng
RT: 26.141 min Scan# 3662
Delta R.T. -0.021 min
Lab File: BN037809.D
Acq: 19 Sep 2025 11:50

Tgt Ion:278	Resp:	15061
Ion Ratio	Lower	Upper
278	100	
139	20.4	17.8 26.6
279	26.8	22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 0.345 ng

RT: 26.846 min Scan# 3910

Delta R.T. -0.021 min

Lab File: BN037809.D

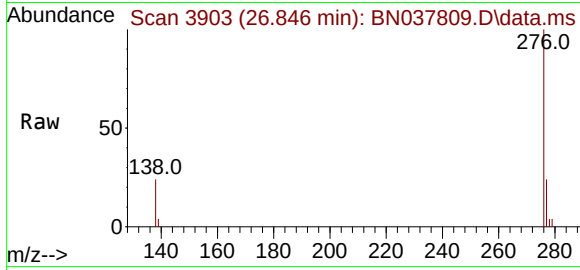
Acq: 19 Sep 2025 11:50

Instrument :

BNA_N

ClientSampleId :

TT119S1-20250916MS



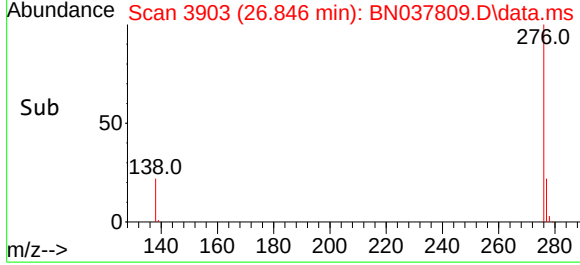
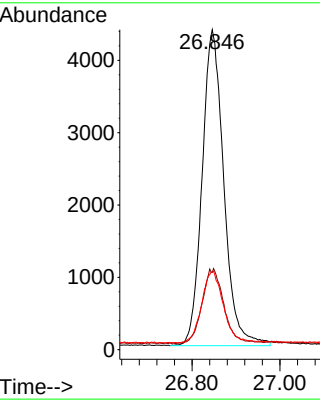
Tgt Ion:276 Resp: 14961

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 : BN037810.D
 Acq On : 19 Sep 2025 12:27
 Operator : RC/JU
 Sample : Q3127-15MSD
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT119S1-20250916MSD

Quant Time: Sep 19 13:03:39 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

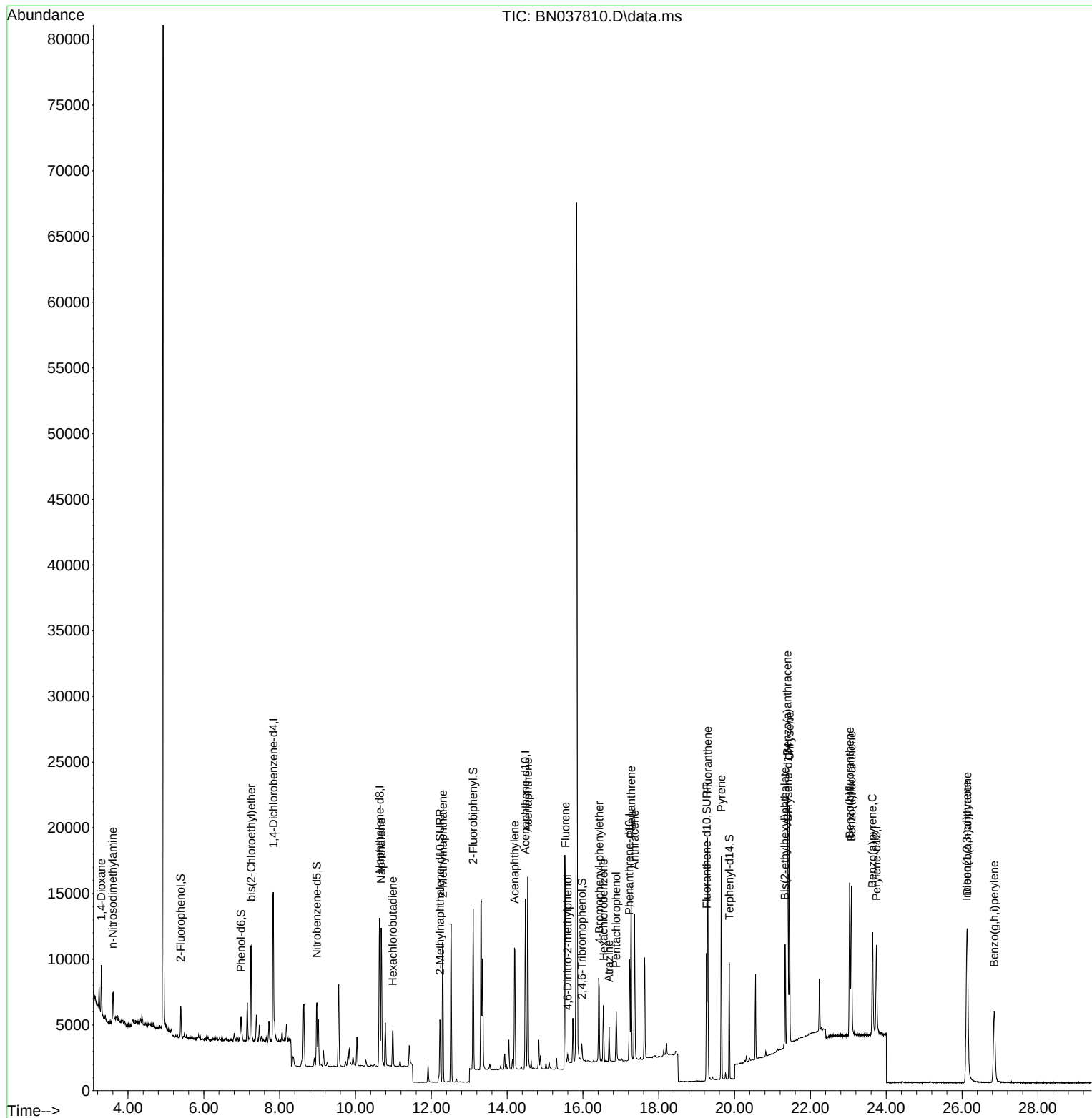
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	5675	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	15407	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	6857	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	11592	0.400	ng	-0.01
29) Chrysene-d12	21.411	240	10004	0.400	ng	0.00
35) Perylene-d12	23.741	264	9737	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.391	112	1897	0.146	ng	0.00
5) Phenol-d6	6.980	99	1434	0.085	ng	0.00
8) Nitrobenzene-d5	8.982	82	3901	0.346	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	6894	0.338	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	782	0.437	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	10028	0.350	ng	-0.01
27) Fluoranthene-d10	19.262	212	10760	0.370	ng	0.00
31) Terphenyl-d14	19.861	244	8455	0.416	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	2066	0.350	ng	# 93
3) n-Nitrosodimethylamine	3.600	42	1165	0.151	ng	# 74
6) bis(2-Chloroethyl)ether	7.248	93	5222	0.346	ng	100
9) Naphthalene	10.680	128	13821	0.328	ng	100
10) Hexachlorobutadiene	10.989	225	2343	0.308	ng	# 99
12) 2-Methylnaphthalene	12.303	142	7743	0.297	ng	98
16) Acenaphthylene	14.195	152	11528	0.367	ng	99
17) Acenaphthene	14.548	154	7272	0.342	ng	99
18) Fluorene	15.535	166	8661	0.336	ng	99
20) 4,6-Dinitro-2-methylph...	15.597	198	404	0.376	ng	92
21) 4-Bromophenyl-phenylether	16.429	248	2790	0.369	ng	98
22) Hexachlorobenzene	16.540	284	3269	0.376	ng	99
23) Atrazine	16.689	200	1858	0.386	ng	96
24) Pentachlorophenol	16.875	266	1907	0.755	ng	96
25) Phenanthrene	17.273	178	14009	0.384	ng	100
26) Anthracene	17.359	178	11991	0.371	ng	99
28) Fluoranthene	19.290	202	14730	0.368	ng	# 95
30) Pyrene	19.652	202	14951	0.382	ng	100
32) Benzo(a)anthracene	21.393	228	13905	0.399	ng	99
33) Chrysene	21.447	228	14913	0.399	ng	99
34) Bis(2-ethylhexyl)phtha...	21.331	149	5161	0.499	ng	98
36) Indeno(1,2,3-cd)pyrene	26.121	276	16404	0.401	ng	99
37) Benzo(b)fluoranthene	23.037	252	15470	0.403	ng	# 96
38) Benzo(k)fluoranthene	23.084	252	15665	0.401	ng	96
39) Benzo(a)pyrene	23.636	252	12334	0.402	ng	# 96
40) Dibenzo(a,h)anthracene	26.142	278	13012	0.398	ng	99
41) Benzo(g,h,i)perylene	26.849	276	12751	0.348	ng	99

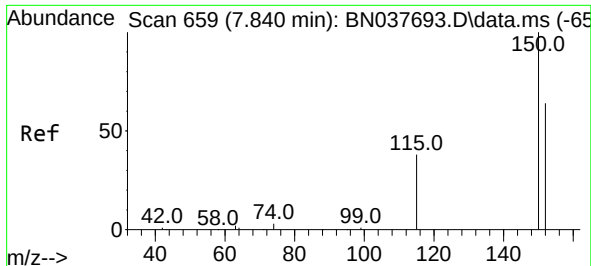
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037810.D
Acq On : 19 Sep 2025 12:27
Operator : RC/JU
Sample : Q3127-15MSD
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD

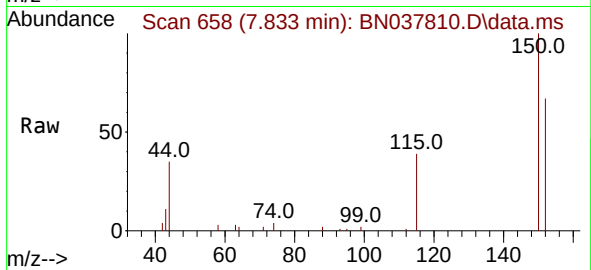
Quant Time: Sep 19 13:03:39 2025
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



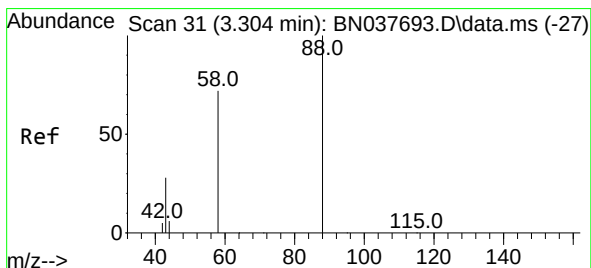
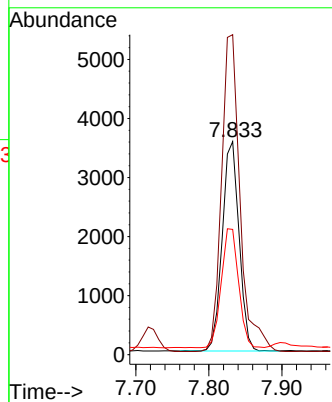
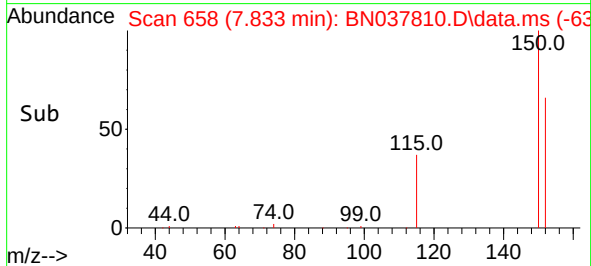


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.833 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN037810.D
 Acq: 19 Sep 2025 12:27

Instrument :
 BNA_N
 ClientSampleId :
 TT119S1-20250916MSD

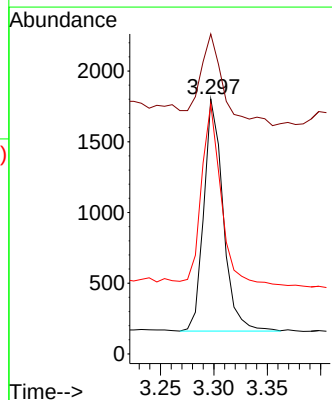
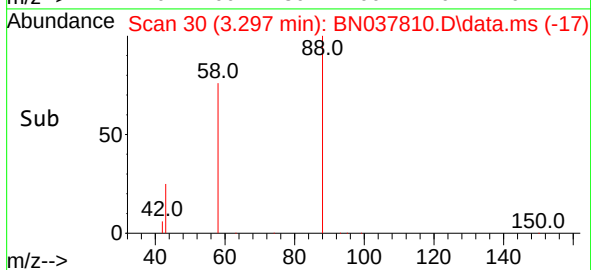
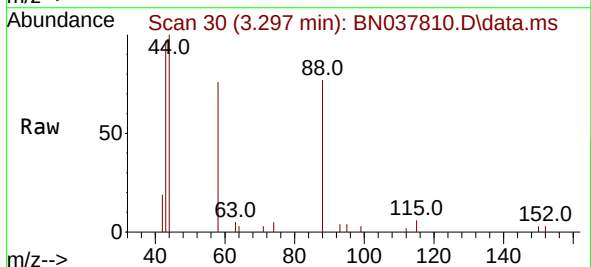


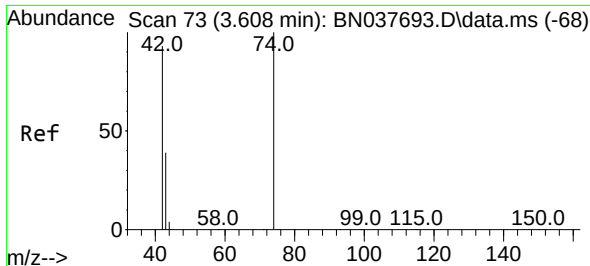
Tgt Ion: 152 Resp: 5675
 Ion Ratio Lower Upper
 152 100
 150 150.1 124.5 186.7
 115 58.8 49.2 73.8



#2
 1,4-Dioxane
 Concen: 0.350 ng
 RT: 3.297 min Scan# 30
 Delta R.T. -0.007 min
 Lab File: BN037810.D
 Acq: 19 Sep 2025 12:27

Tgt Ion: 88 Resp: 2066
 Ion Ratio Lower Upper
 88 100
 43 43.1 26.8 40.2#
 58 79.7 61.9 92.9

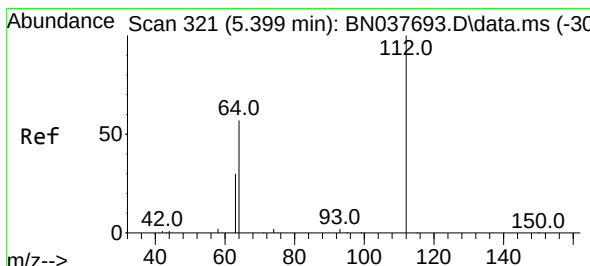
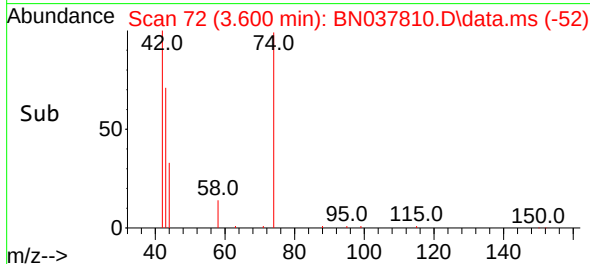
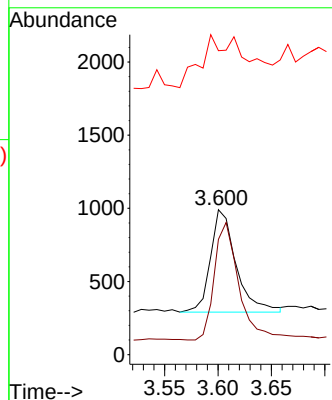
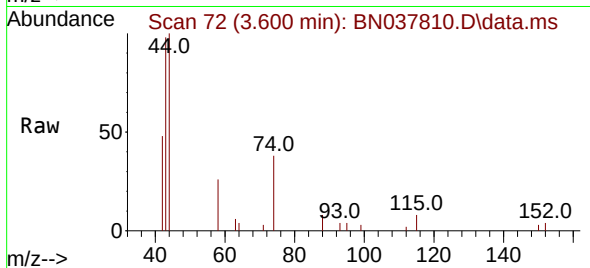




#3
 n-Nitrosodimethylamine
 Concen: 0.151 ng
 RT: 3.600 min Scan# 71
 Delta R.T. -0.007 min
 Lab File: BN037810.D
 Acq: 19 Sep 2025 12:27

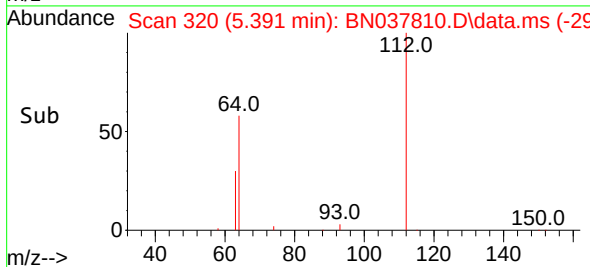
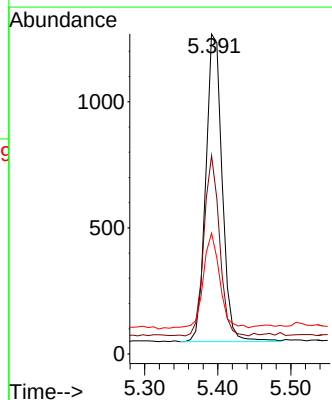
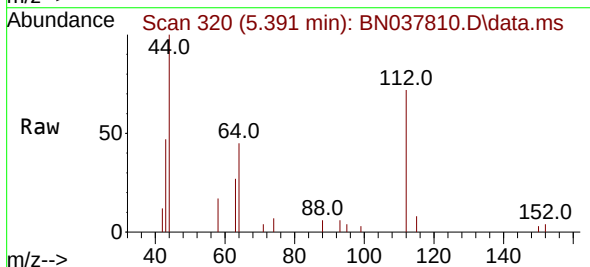
Instrument :
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 ClientSampleId :
 TT119S1-20250916MSD

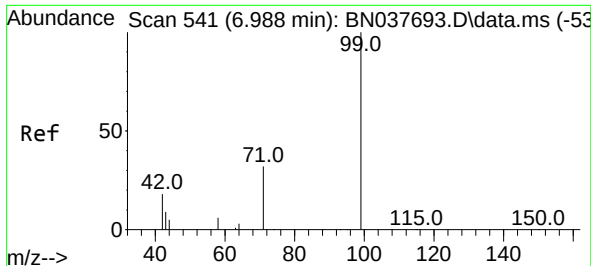
Tgt Ion: 42 Resp: 1165
 Ion Ratio Lower Upper
 42 100
 74 114.0 86.0 129.0
 44 95.3 8.4 12.6#



#4
 2-Fluorophenol
 Concen: 0.146 ng
 RT: 5.391 min Scan# 320
 Delta R.T. -0.007 min
 Lab File: BN037810.D
 Acq: 19 Sep 2025 12:27

Tgt Ion: 112 Resp: 1897
 Ion Ratio Lower Upper
 112 100
 64 55.4 44.9 67.3
 63 31.5 24.7 37.1





#5

Phenol-d6

Concen: 0.085 ng

RT: 6.980 min Scan# 541

Delta R.T. -0.007 min

Lab File: BN037810.D

Acq: 19 Sep 2025 12:27

Instrument :

BNA_N

ClientSampleId :

TT119S1-20250916MSD

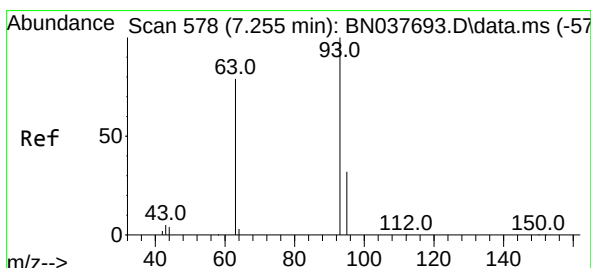
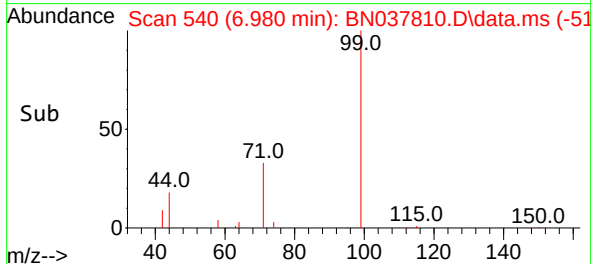
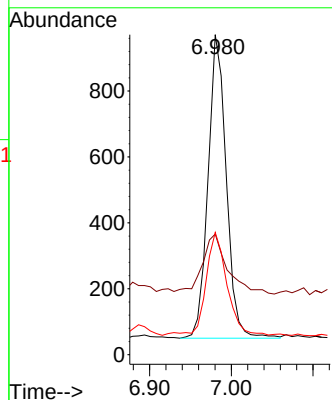
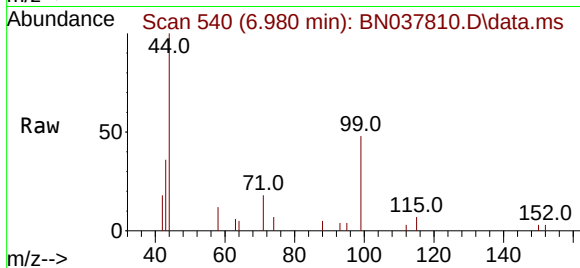
Tgt Ion: 99 Resp: 1434

Ion Ratio Lower Upper

99 100

42 27.4 16.6 24.8#

71 39.0 26.7 40.1



#6

bis(2-Chloroethyl)ether

Concen: 0.346 ng

RT: 7.248 min Scan# 577

Delta R.T. -0.007 min

Lab File: BN037810.D

Acq: 19 Sep 2025 12:27

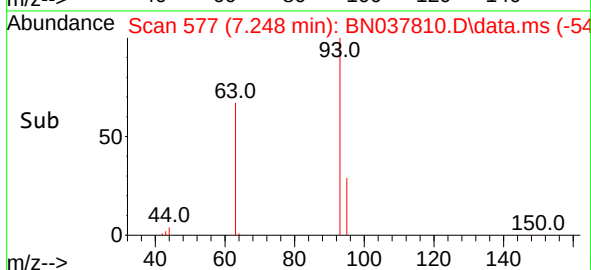
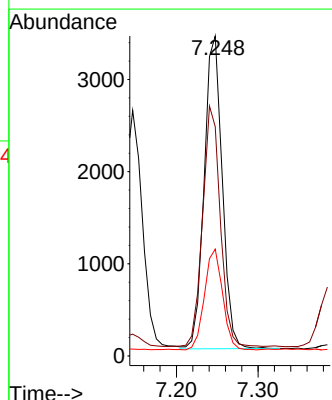
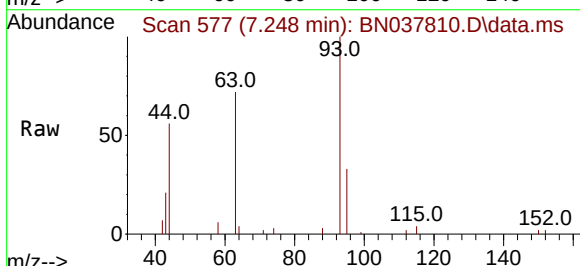
Tgt Ion: 93 Resp: 5222

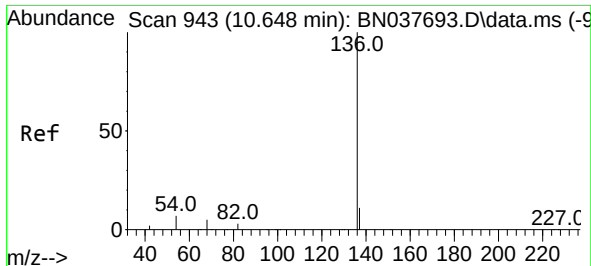
Ion Ratio Lower Upper

93 100

63 75.5 60.6 90.8

95 32.4 26.0 39.0

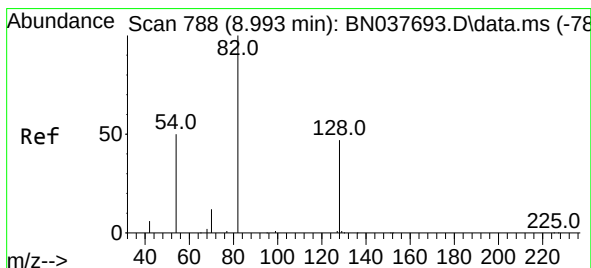
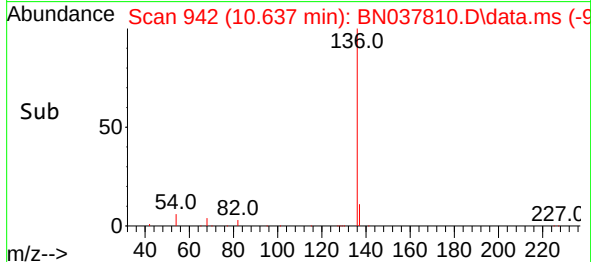
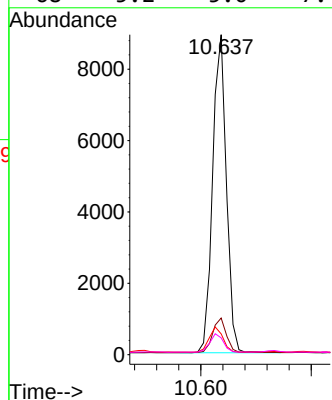
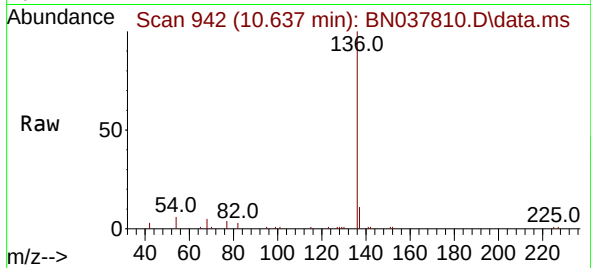




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

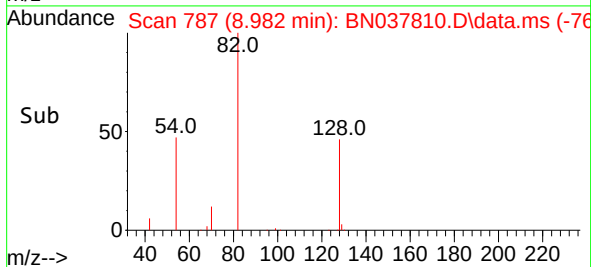
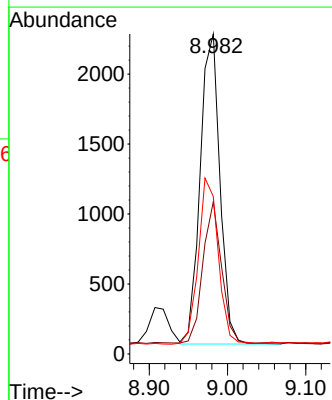
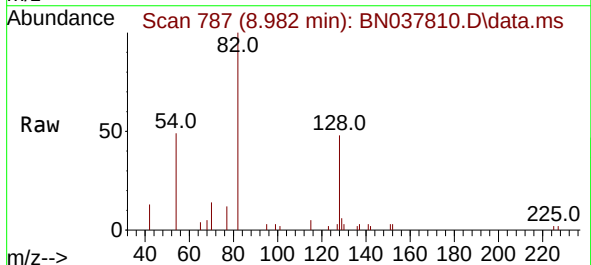
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD

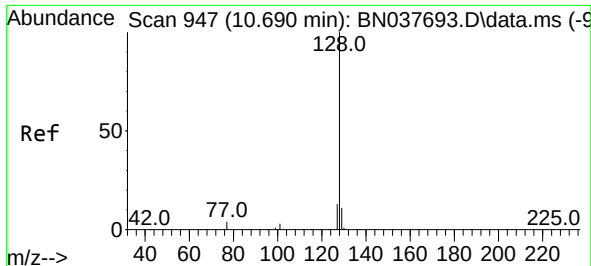
Tgt Ion:	136	Resp:	15407
Ion Ratio	Lower	Upper	
136	100		
137	11.5	9.1	13.7
54	6.5	6.3	9.5
68	5.2	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.346 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

Tgt Ion:	82	Resp:	3901
Ion Ratio	Lower	Upper	
82	100		
128	47.6	38.3	57.5
54	49.2	41.4	62.2

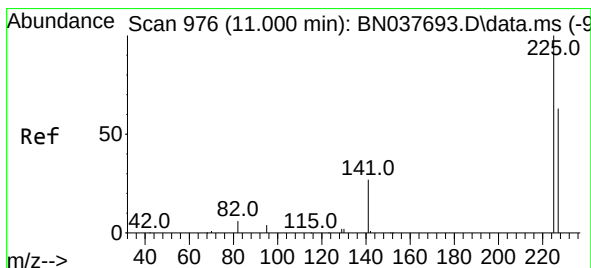
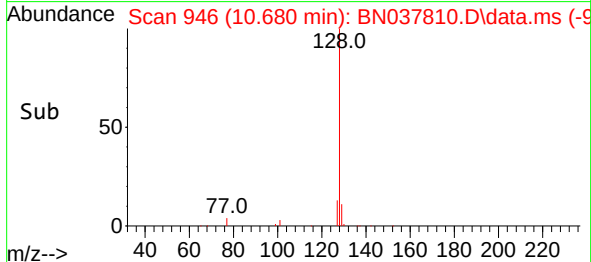
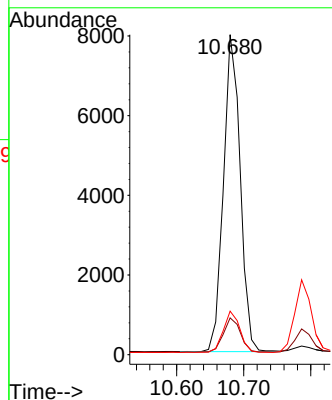
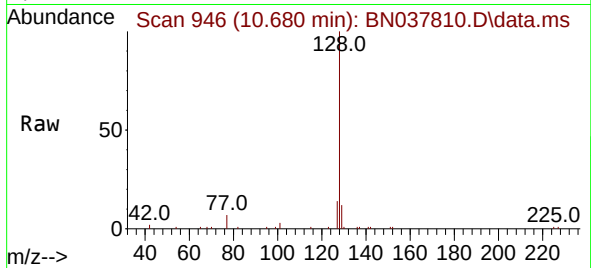




#9
Naphthalene
Concen: 0.328 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

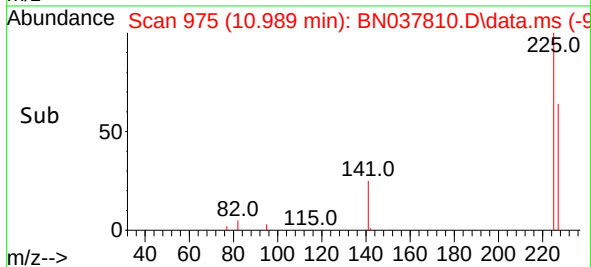
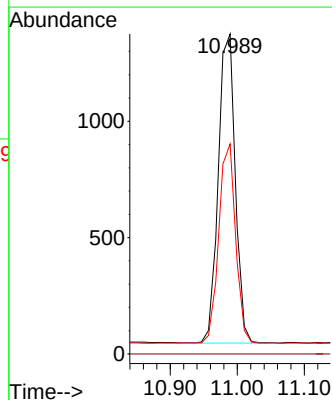
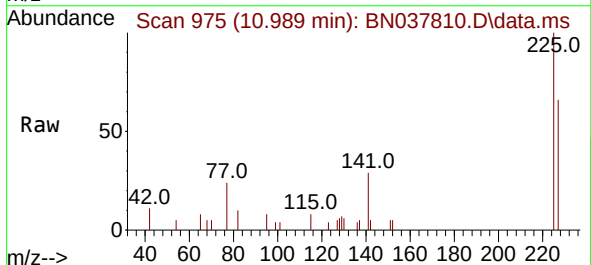
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD

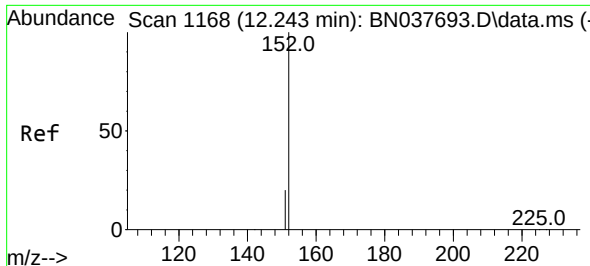
Tgt Ion:128	Resp:	13821
Ion Ratio	Lower	Upper
128	100	
129	11.5	9.1 13.7
127	13.6	10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.308 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

Tgt Ion:225	Resp:	2343
Ion Ratio	Lower	Upper
225	100	
223	0.0	0.0 0.0
227	64.1	50.9 76.3

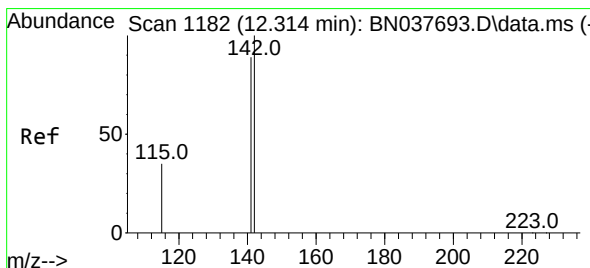
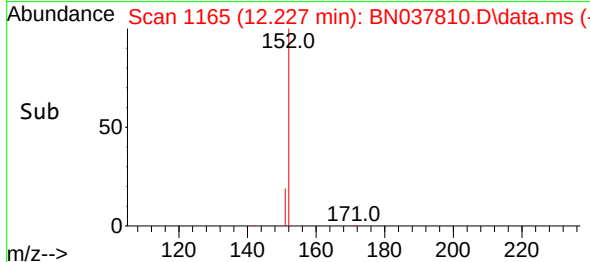
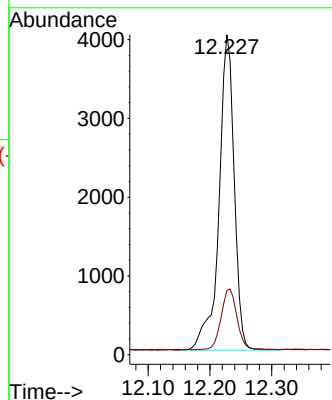
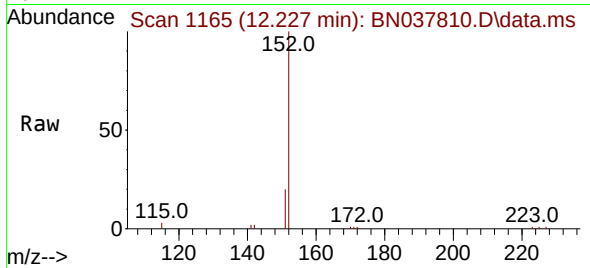




#11
2-Methylnaphthalene-d10
Concen: 0.338 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

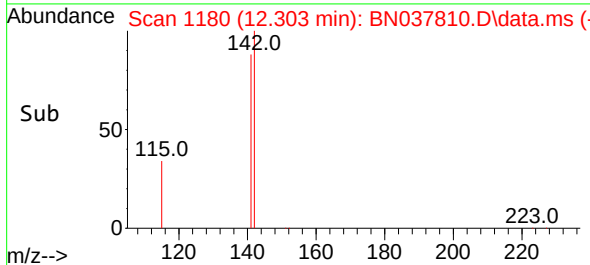
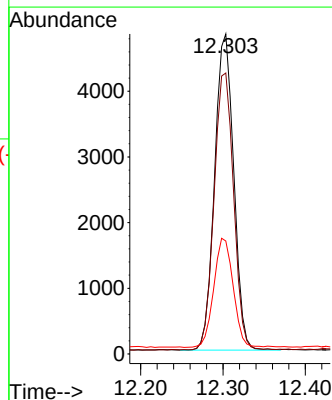
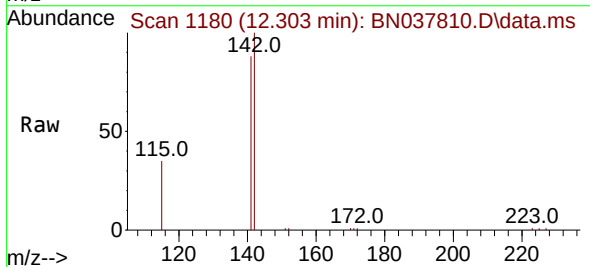
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD

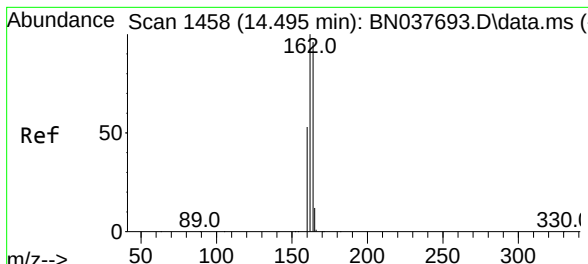
Tgt Ion:152 Resp: 6894
Ion Ratio Lower Upper
152 100
151 19.9 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.297 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

Tgt Ion:142 Resp: 7743
Ion Ratio Lower Upper
142 100
141 87.8 71.6 107.4
115 35.3 28.6 43.0

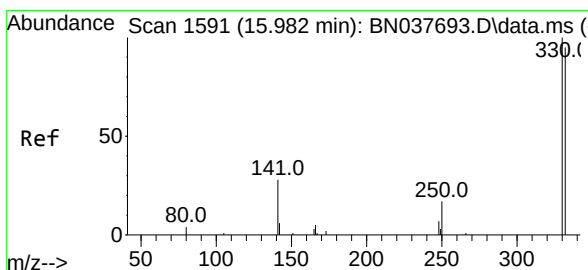
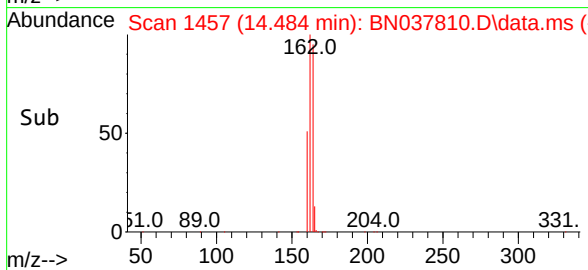
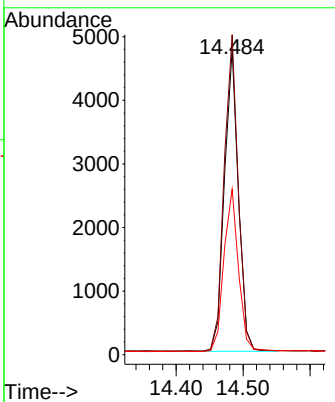
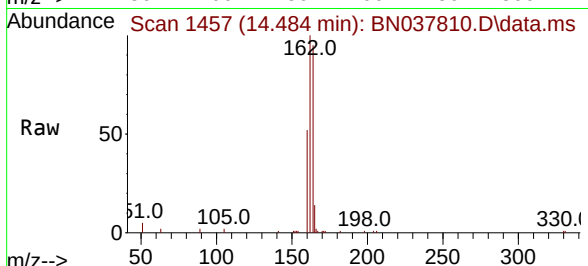




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.484 min Scan# 1457
 Delta R.T. -0.011 min
 Lab File: BN037810.D
 Acq: 19 Sep 2025 12:27

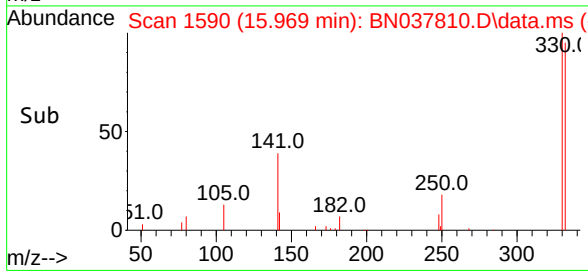
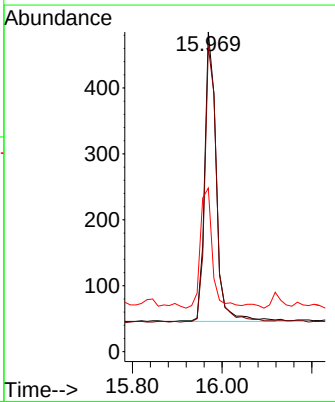
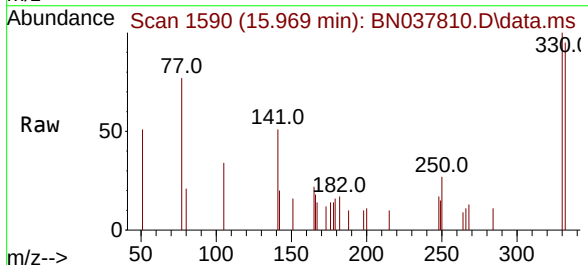
Instrument :
 BNA_N
 ClientSampleId :
 TT119S1-20250916MSD

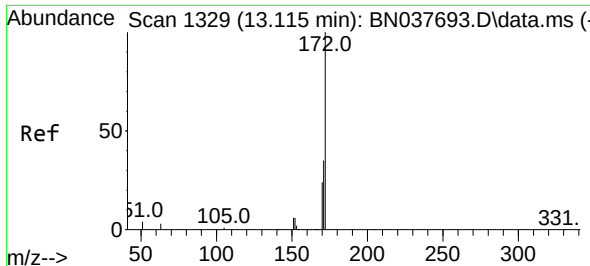
Tgt Ion:	164	Resp:	6857
Ion Ratio	Lower	Upper	
164	100		
162	104.7	83.1	124.7
160	54.1	44.3	66.5



#14
 2,4,6-Tribromophenol
 Concen: 0.437 ng
 RT: 15.969 min Scan# 1590
 Delta R.T. -0.013 min
 Lab File: BN037810.D
 Acq: 19 Sep 2025 12:27

Tgt Ion:	330	Resp:	782
Ion Ratio	Lower	Upper	
330	100		
332	96.8	75.3	112.9
141	43.5	35.0	52.4

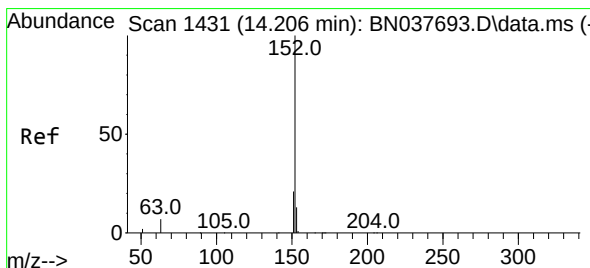
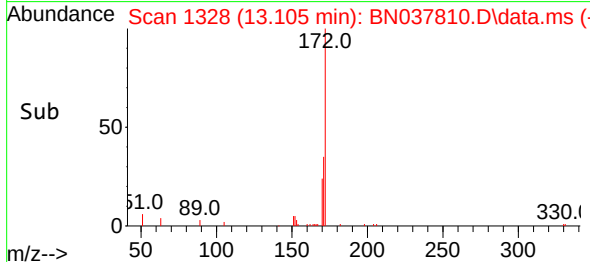
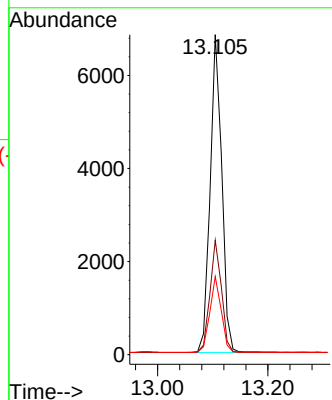
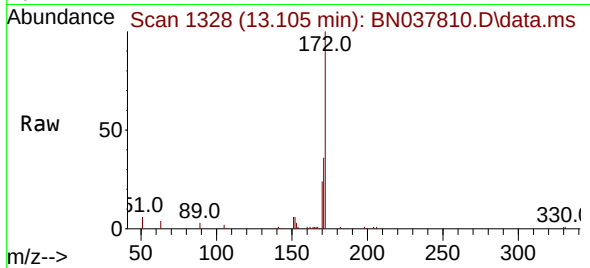




#15
2-Fluorobiphenyl
Concen: 0.350 ng
RT: 13.105 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

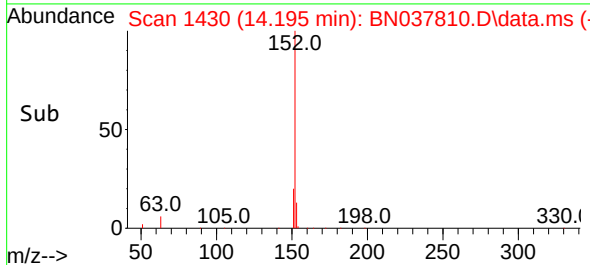
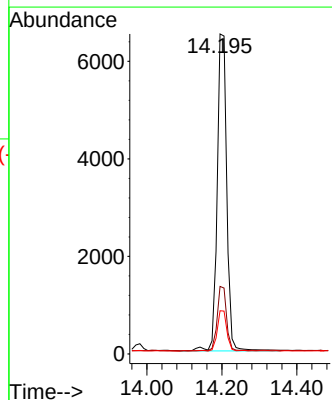
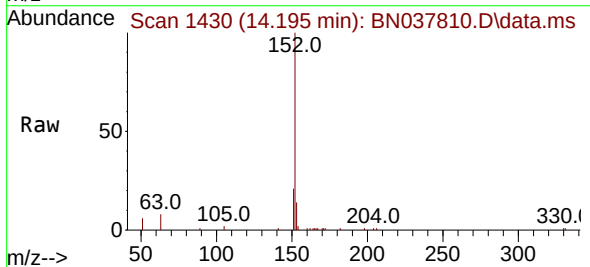
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD

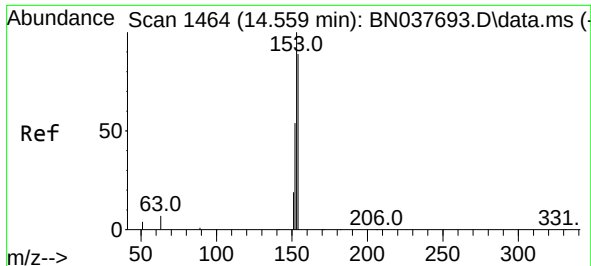
Tgt Ion:172	Resp:	10028
Ion Ratio	Lower	Upper
172	100	
171	35.7	28.6 43.0
170	24.4	19.8 29.8



#16
Acenaphthylene
Concen: 0.367 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.011 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

Tgt Ion:152	Resp:	11528
Ion Ratio	Lower	Upper
152	100	
151	19.7	16.2 24.2
153	12.8	10.4 15.6

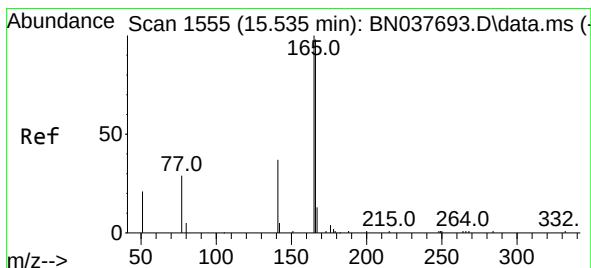
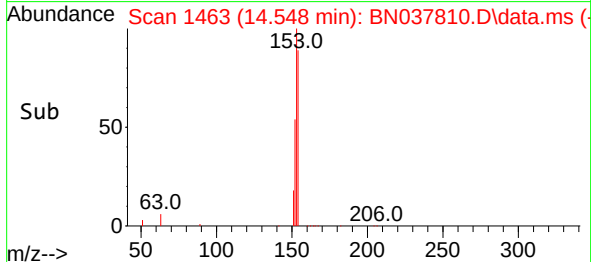
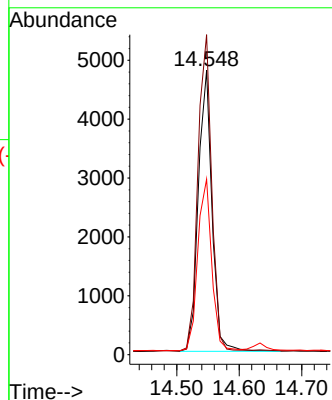
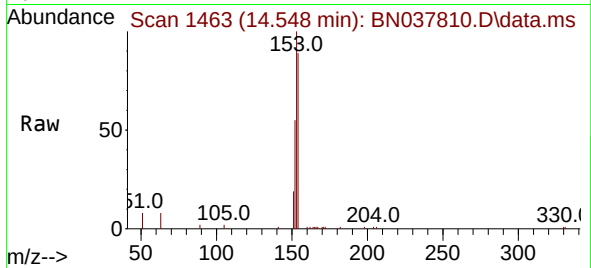




#17
Acenaphthene
Concen: 0.342 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

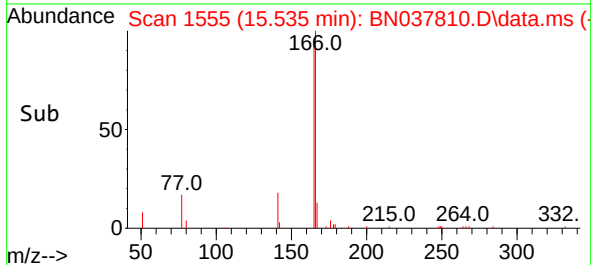
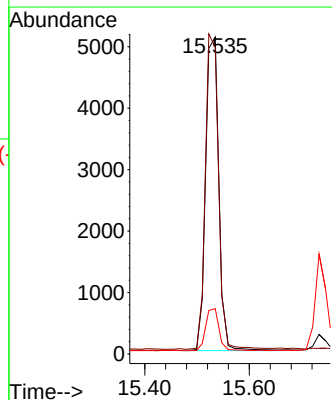
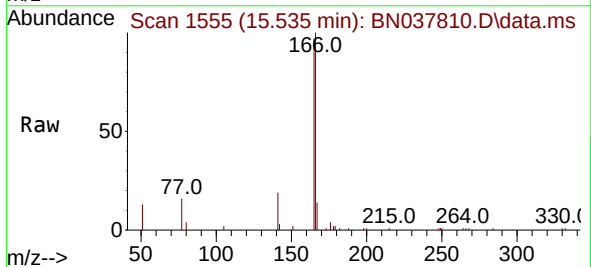
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD

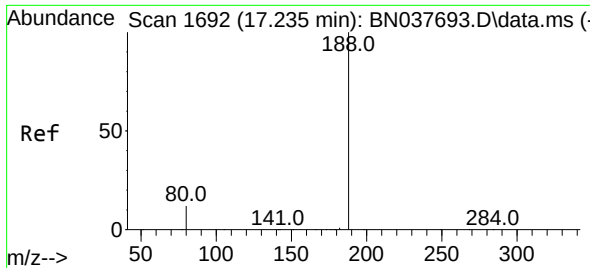
Tgt Ion:154 Resp: 7272
Ion Ratio Lower Upper
154 100
153 113.0 89.8 134.8
152 62.0 50.2 75.2



#18
Fluorene
Concen: 0.336 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

Tgt Ion:166 Resp: 8661
Ion Ratio Lower Upper
166 100
165 98.4 79.6 119.4
167 13.6 10.6 16.0

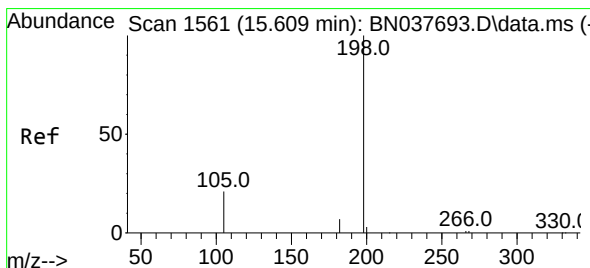
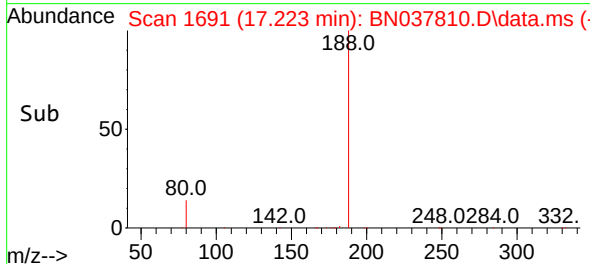
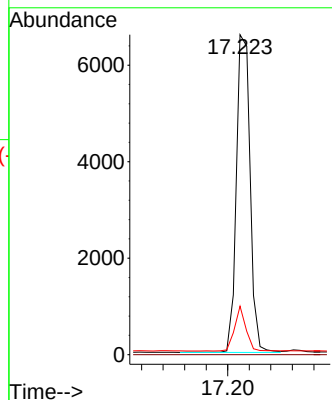
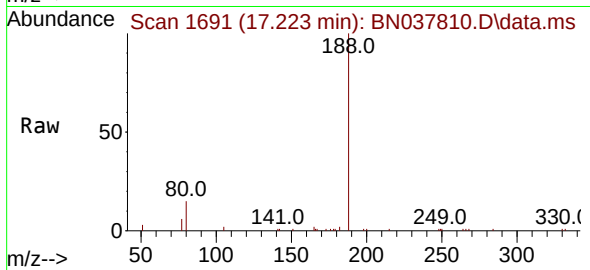




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 11
Delta R.T. -0.013 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

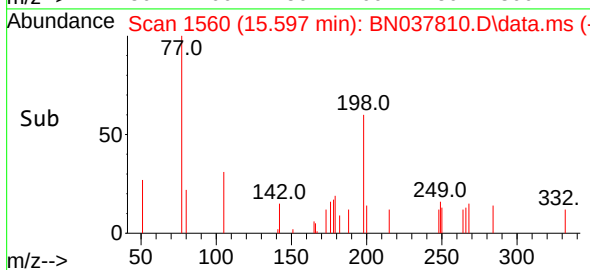
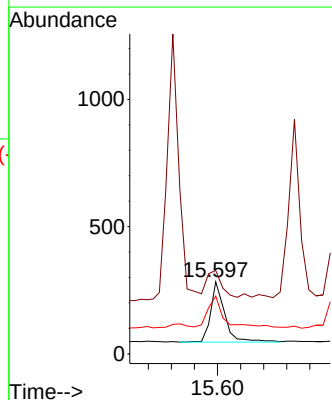
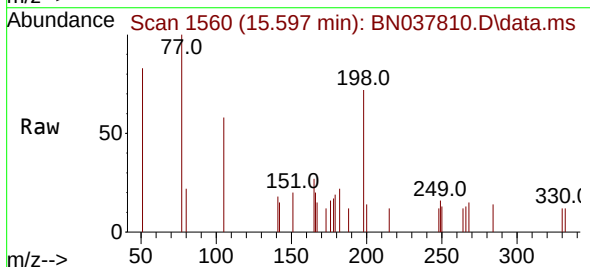
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD

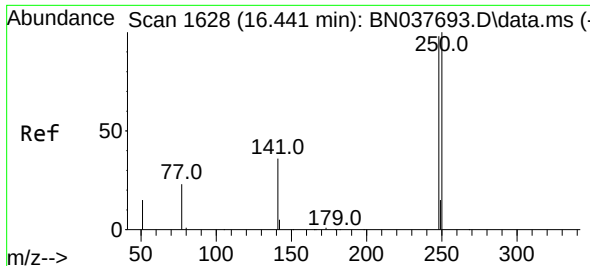
Tgt Ion:188 Resp: 11592
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 15.2 10.6 15.8



#20
4,6-Dinitro-2-methylphenol
Concen: 0.376 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.012 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

Tgt Ion:198 Resp: 404
Ion Ratio Lower Upper
198 100
51 115.9 95.1 142.7
105 80.2 53.8 80.6

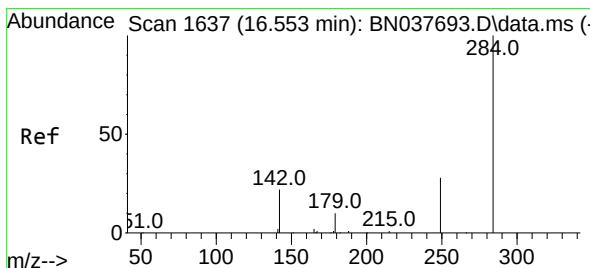
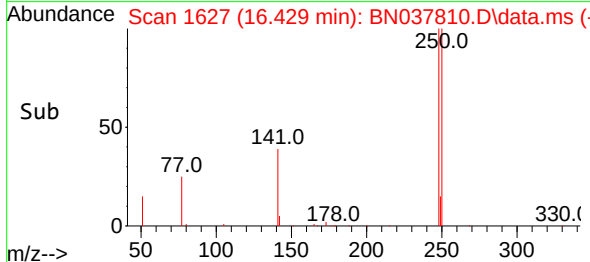
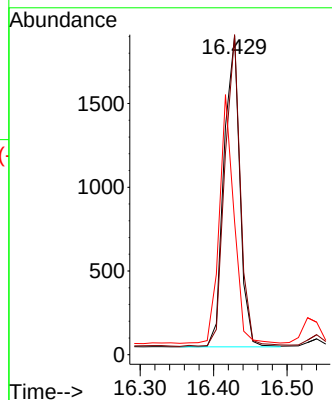
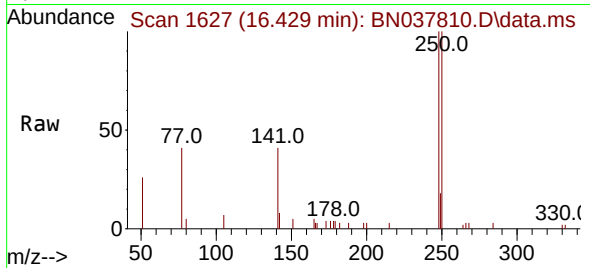




#21
4-Bromophenyl-phenylether
Concen: 0.369 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.013 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

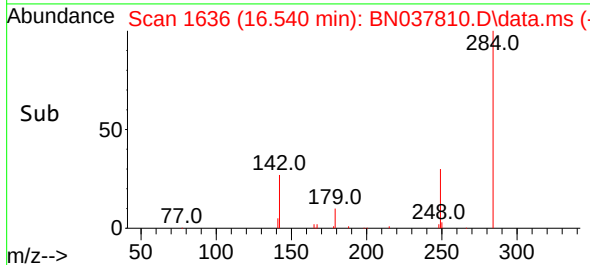
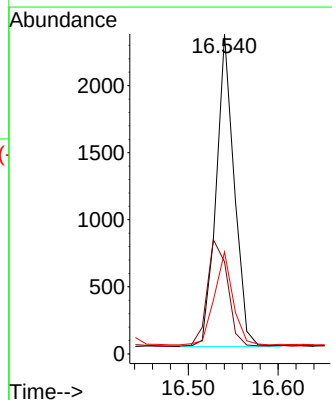
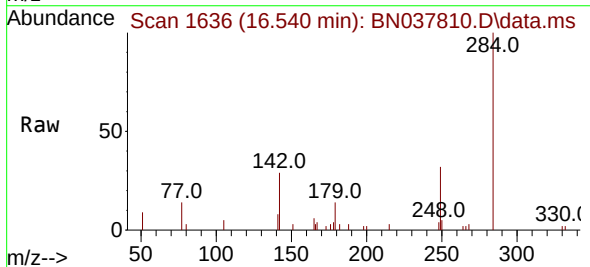
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD

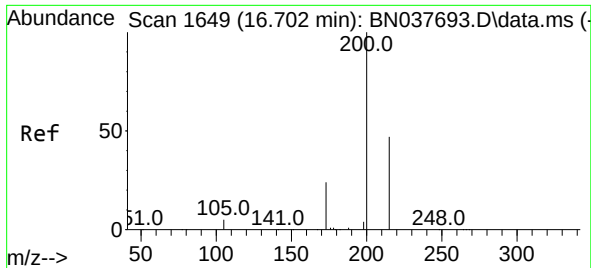
Tgt Ion:248 Resp: 2790
Ion Ratio Lower Upper
248 100
250 100.5 81.5 122.3
141 41.7 30.8 46.2



#22
Hexachlorobenzene
Concen: 0.376 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

Tgt Ion:284 Resp: 3269
Ion Ratio Lower Upper
284 100
142 38.2 30.9 46.3
249 30.5 24.8 37.2

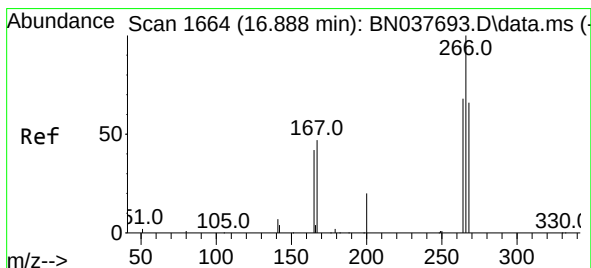
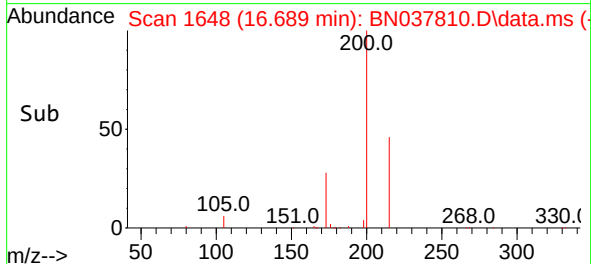
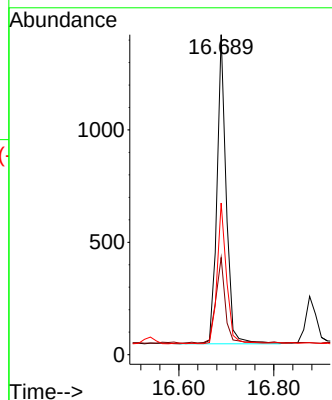
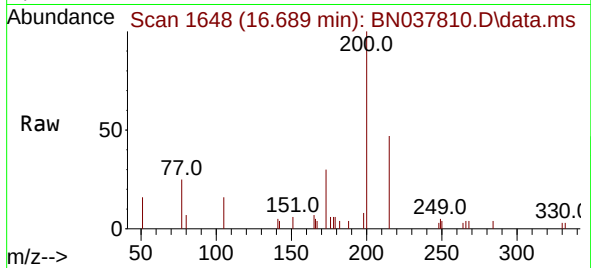




#23
Atrazine
Concen: 0.386 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.013 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

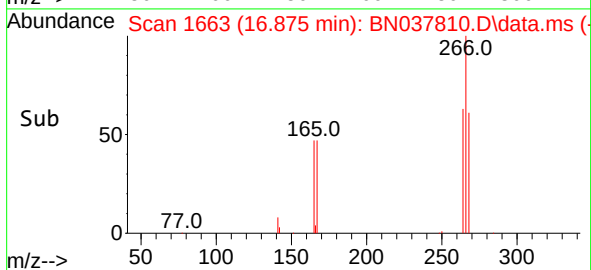
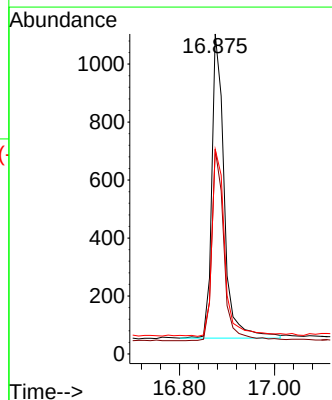
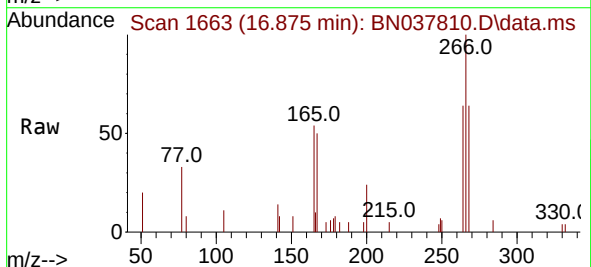
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD

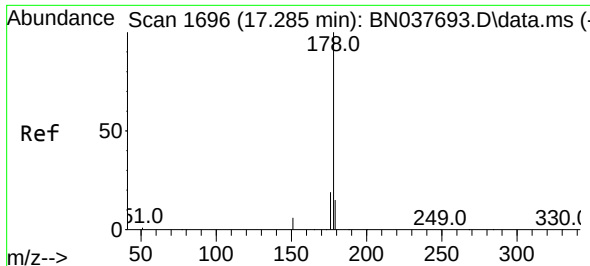
Tgt Ion:200 Resp: 1858
Ion Ratio Lower Upper
200 100
173 30.3 21.4 32.2
215 47.4 39.2 58.8



#24
Pentachlorophenol
Concen: 0.755 ng
RT: 16.875 min Scan# 1663
Delta R.T. -0.013 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

Tgt Ion:266 Resp: 1907
Ion Ratio Lower Upper
266 100
264 61.6 51.6 77.4
268 63.3 53.2 79.8

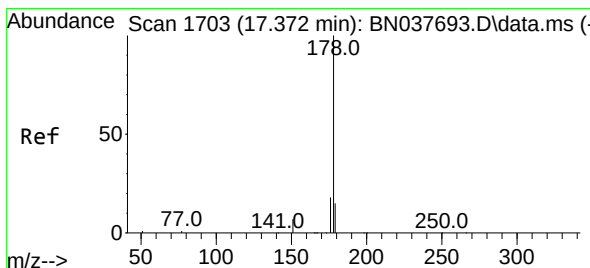
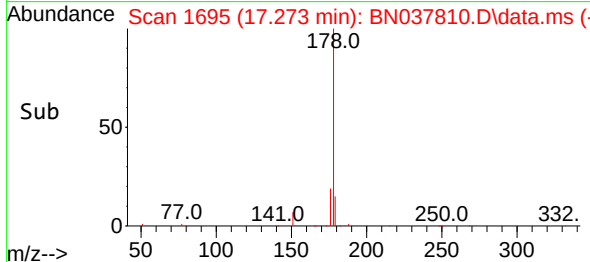
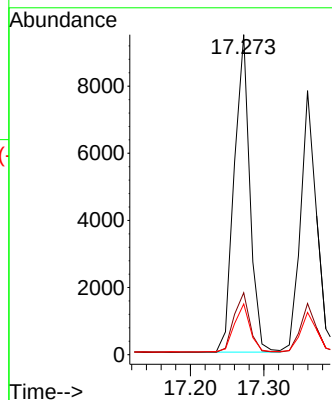
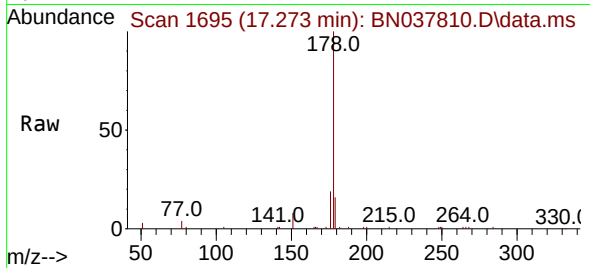




#25
Phenanthrene
Concen: 0.384 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

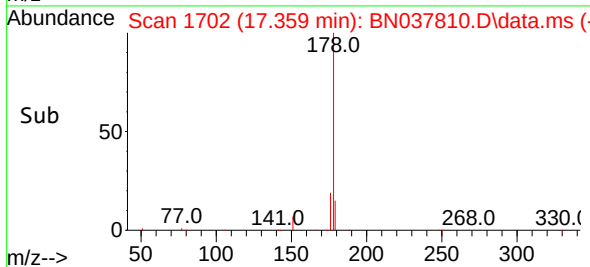
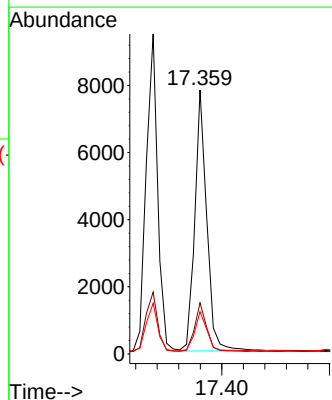
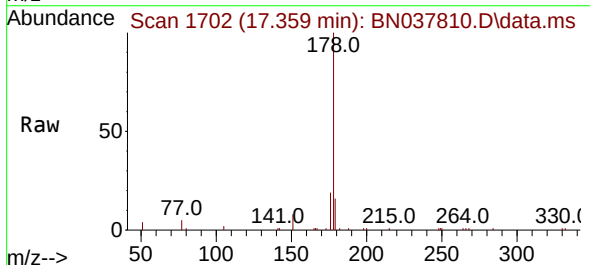
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD

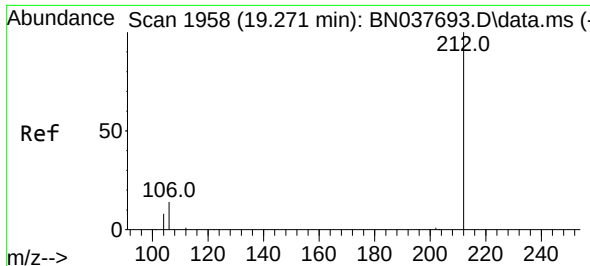
Tgt Ion:178 Resp: 14009
Ion Ratio Lower Upper
178 100
176 19.3 15.3 22.9
179 15.4 12.2 18.2



#26
Anthracene
Concen: 0.371 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

Tgt Ion:178 Resp: 11991
Ion Ratio Lower Upper
178 100
176 18.7 14.6 22.0
179 15.4 12.2 18.4

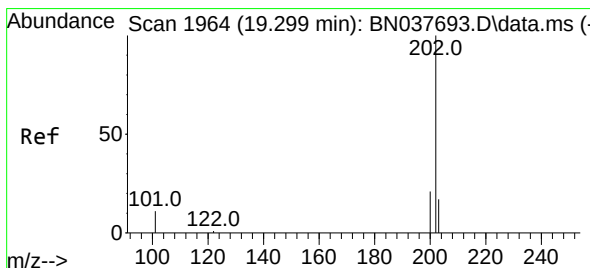
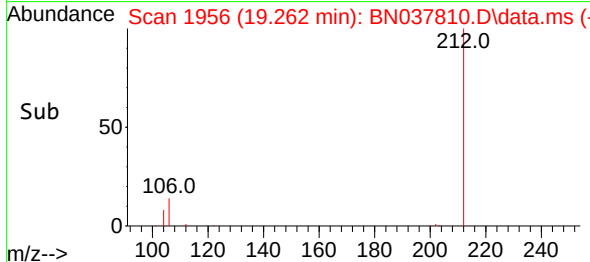
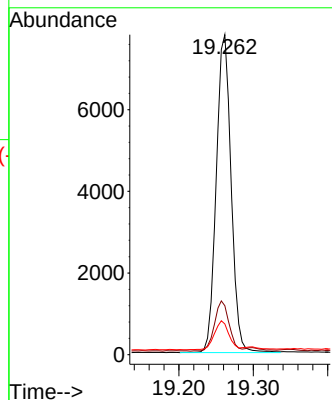
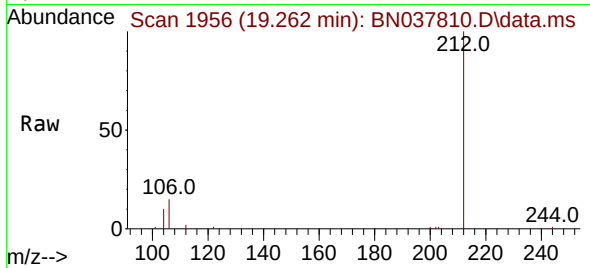




#27
Fluoranthene-d10
Concen: 0.370 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

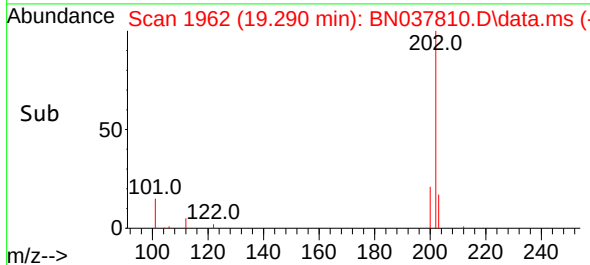
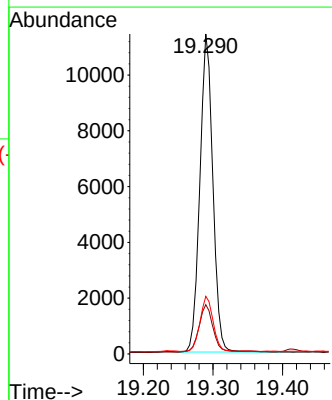
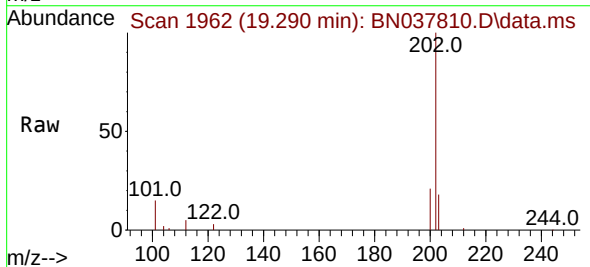
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD

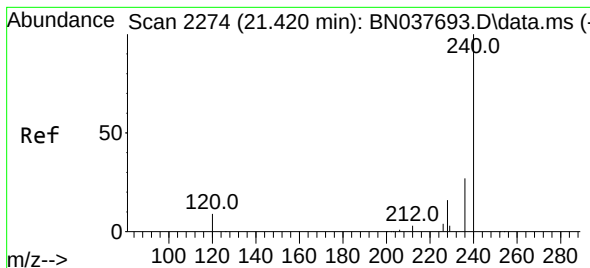
Tgt Ion:212 Resp: 10760
Ion Ratio Lower Upper
212 100
106 15.5 12.2 18.2
104 9.0 6.9 10.3



#28
Fluoranthene
Concen: 0.368 ng
RT: 19.290 min Scan# 1962
Delta R.T. -0.009 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

Tgt Ion:202 Resp: 14730
Ion Ratio Lower Upper
202 100
101 15.9 9.3 13.9#
203 17.4 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: BN037810.D

Acq: 19 Sep 2025 12:27

Instrument :

BNA_N

ClientSampleId :

TT119S1-20250916MSD

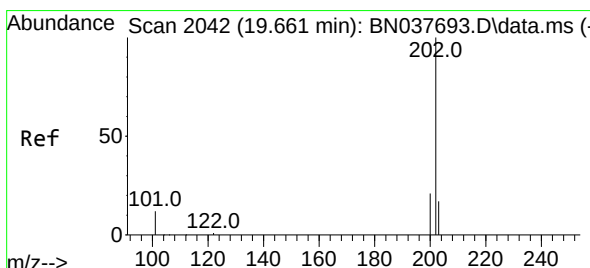
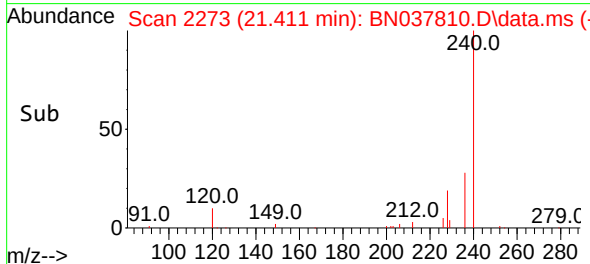
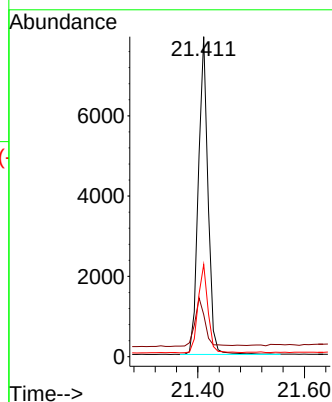
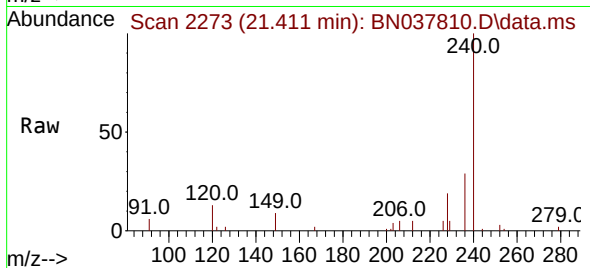
Tgt Ion:240 Resp: 10004

Ion Ratio Lower Upper

240 100

120 13.1 9.2 13.8

236 28.8 22.6 33.8



#30

Pyrene

Concen: 0.382 ng

RT: 19.652 min Scan# 2040

Delta R.T. -0.009 min

Lab File: BN037810.D

Acq: 19 Sep 2025 12:27

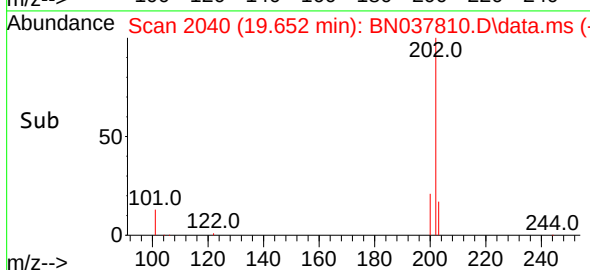
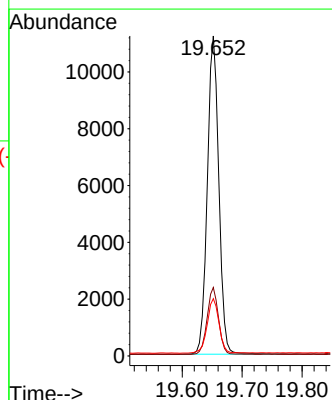
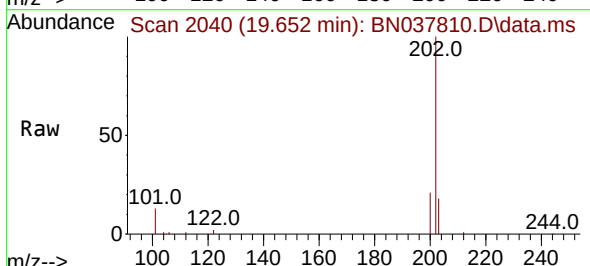
Tgt Ion:202 Resp: 14951

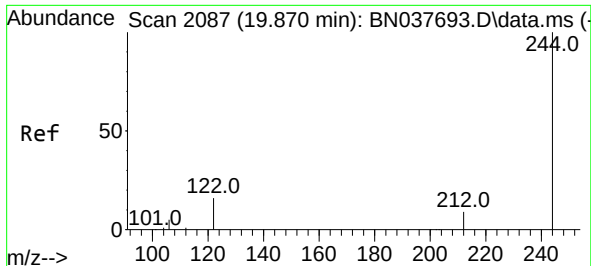
Ion Ratio Lower Upper

202 100

200 20.9 16.8 25.2

203 17.8 14.3 21.5

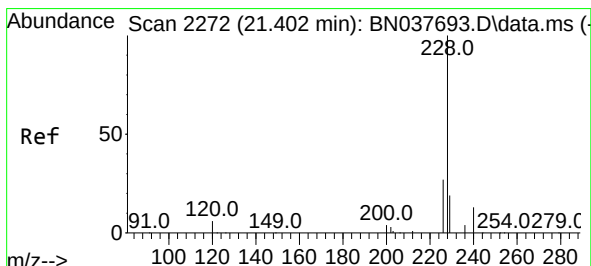
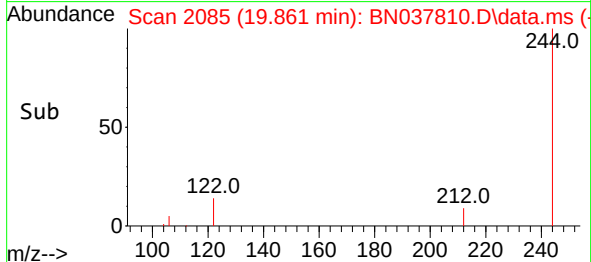
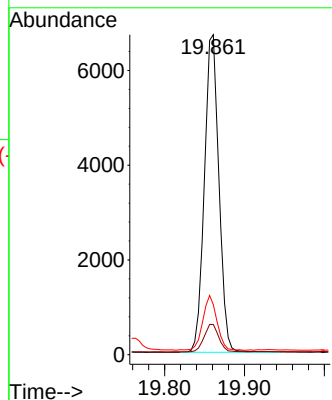
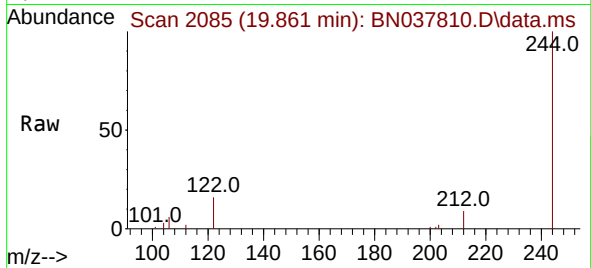




#31
Terphenyl-d14
Concen: 0.416 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

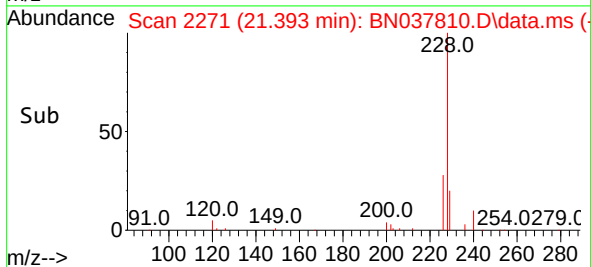
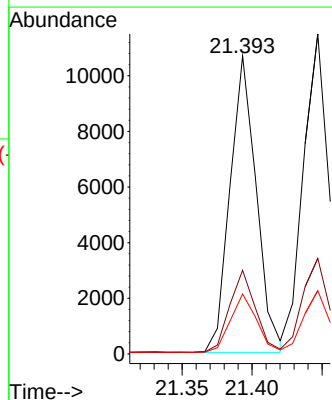
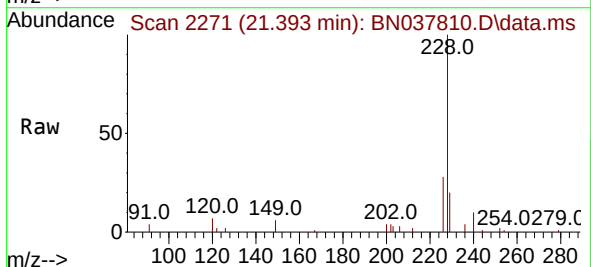
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD

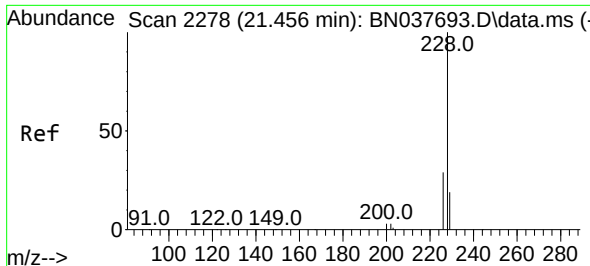
Tgt Ion:244	Resp:	8455
Ion Ratio	Lower	Upper
244	100	
212	9.4	7.5 11.3
122	15.7	13.2 19.8



#32
Benzo(a)anthracene
Concen: 0.399 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

Tgt Ion:228	Resp:	13905
Ion Ratio	Lower	Upper
228	100	
226	28.1	22.2 33.2
229	20.1	15.8 23.6

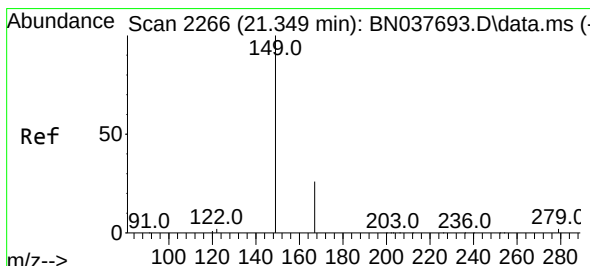
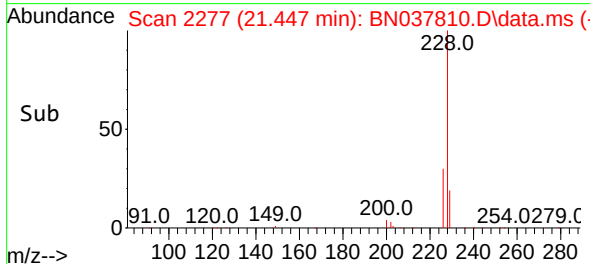
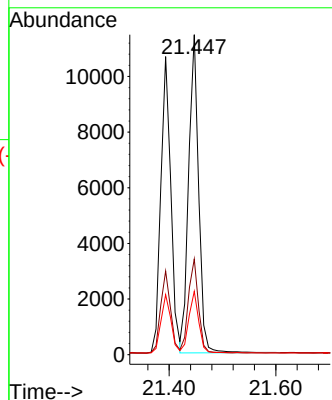
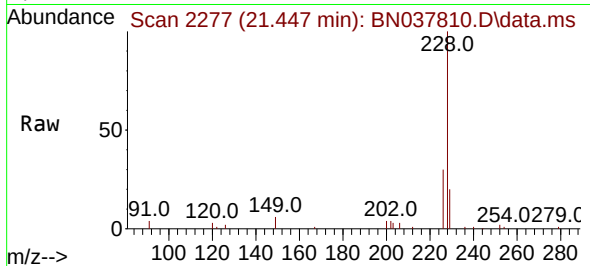




#33
Chrysene
Concen: 0.399 ng
RT: 21.447 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

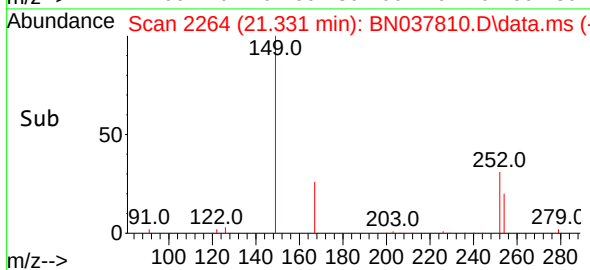
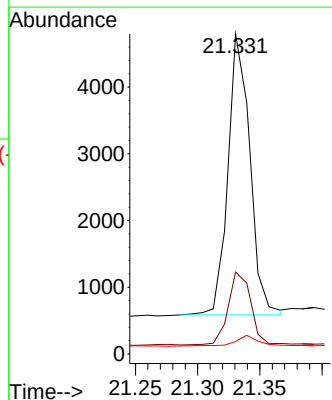
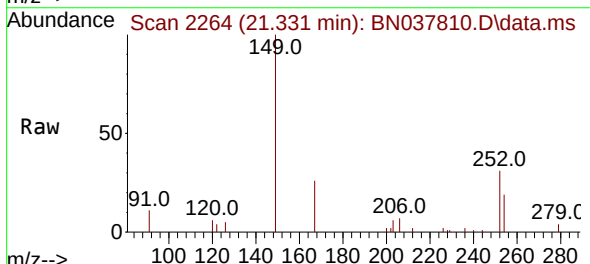
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD

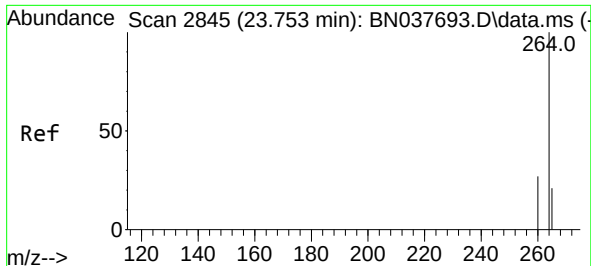
Tgt Ion:228	Resp:	14913
Ion Ratio	Lower	Upper
228	100	
226	29.9	23.5 35.3
229	19.8	15.9 23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.499 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

Tgt Ion:149	Resp:	5161
Ion Ratio	Lower	Upper
149	100	
167	27.2	20.8 31.2
279	4.0	3.3 4.9

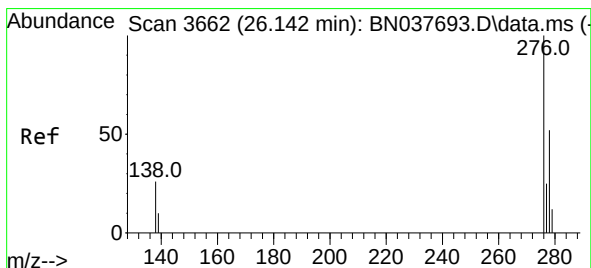
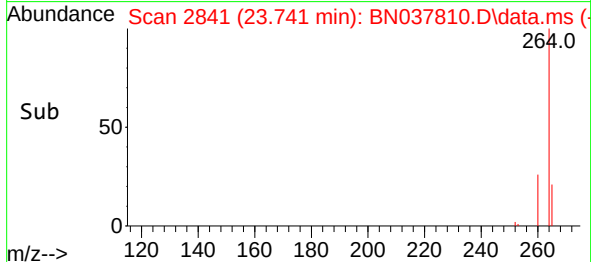
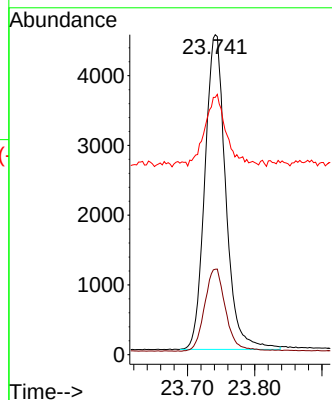
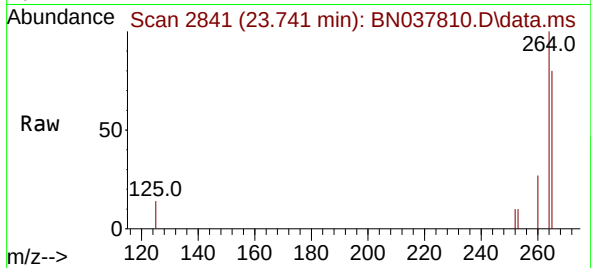




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.741 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

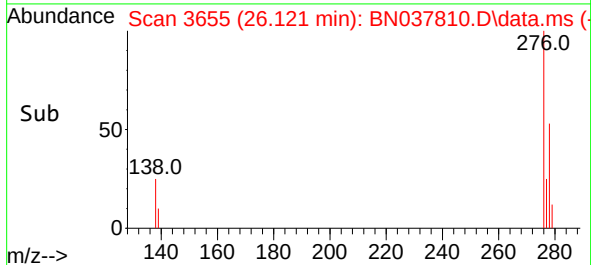
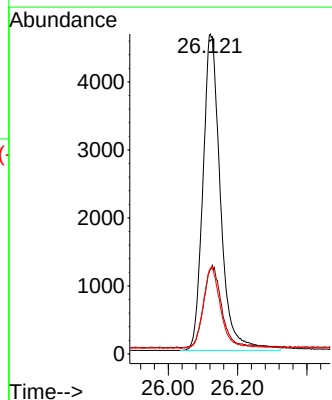
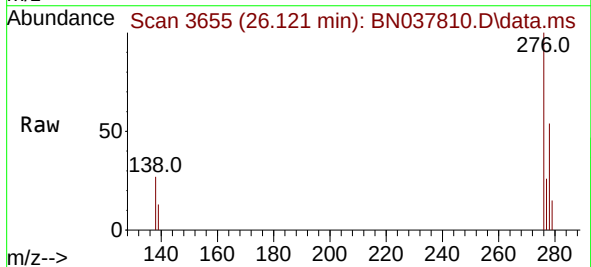
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD

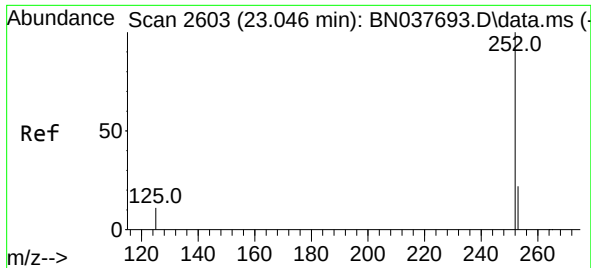
Tgt Ion:264 Resp: 9737
Ion Ratio Lower Upper
264 100
260 26.7 21.8 32.8
265 80.4 39.4 59.2#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.401 ng
RT: 26.121 min Scan# 3655
Delta R.T. -0.021 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

Tgt Ion:276 Resp: 16404
Ion Ratio Lower Upper
276 100
138 26.5 21.9 32.9
277 24.7 20.1 30.1

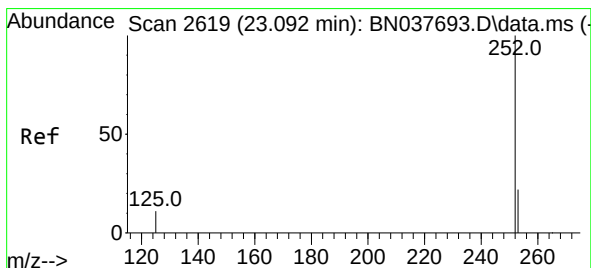
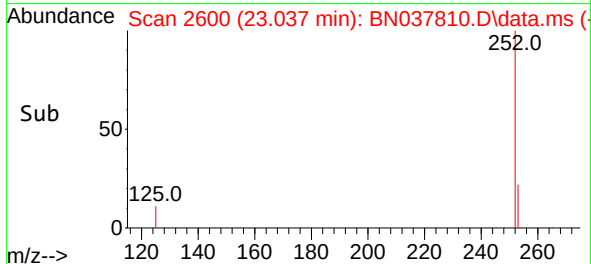
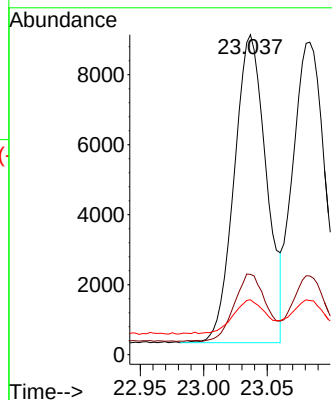
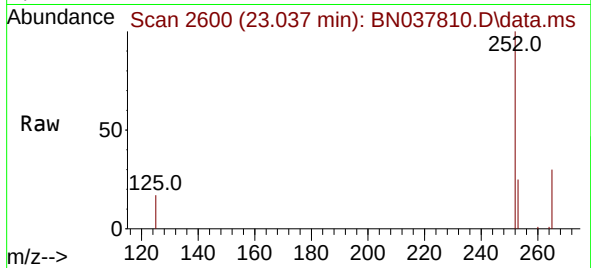




#37
Benzo(b)fluoranthene
Concen: 0.403 ng
RT: 23.037 min Scan# 2600
Delta R.T. -0.009 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

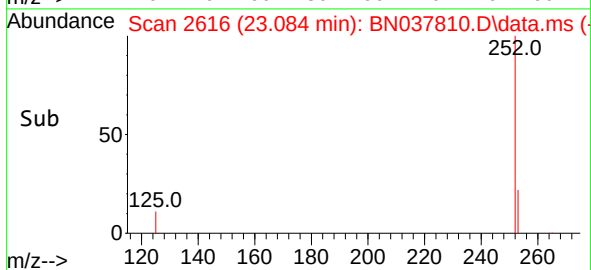
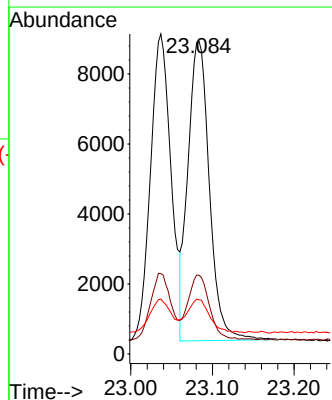
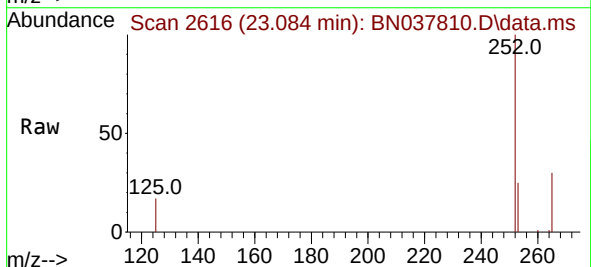
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD

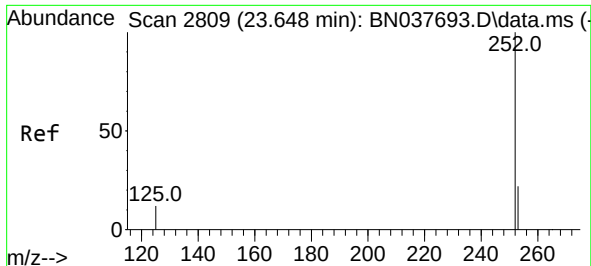
Tgt Ion:252 Resp: 15470
Ion Ratio Lower Upper
252 100
253 25.1 19.4 29.2
125 17.1 11.2 16.8#



#38
Benzo(k)fluoranthene
Concen: 0.401 ng
RT: 23.084 min Scan# 2616
Delta R.T. -0.009 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

Tgt Ion:252 Resp: 15665
Ion Ratio Lower Upper
252 100
253 25.2 19.4 29.0
125 17.3 11.6 17.4

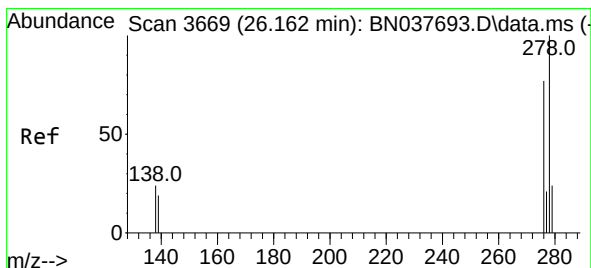
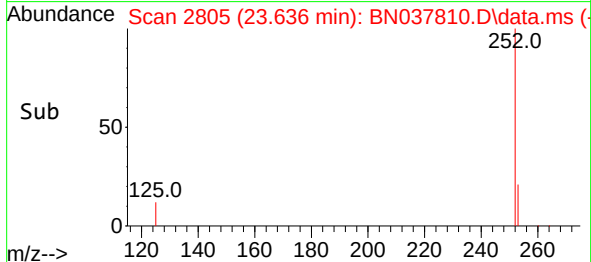
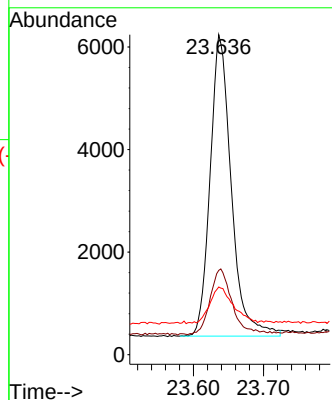
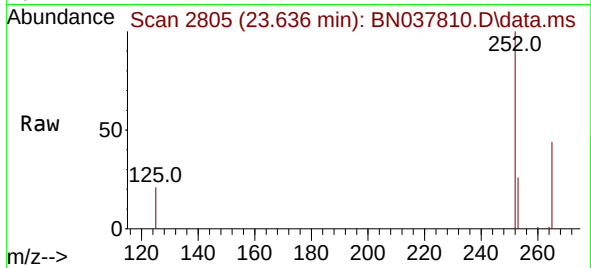




#39
Benzo(a)pyrene
Concen: 0.402 ng
RT: 23.636 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

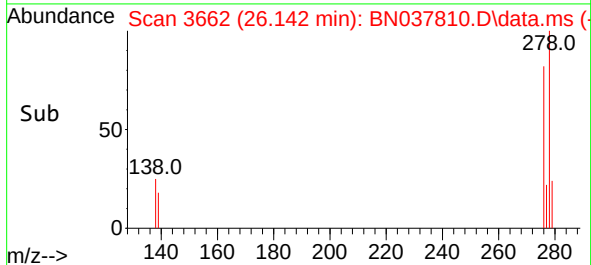
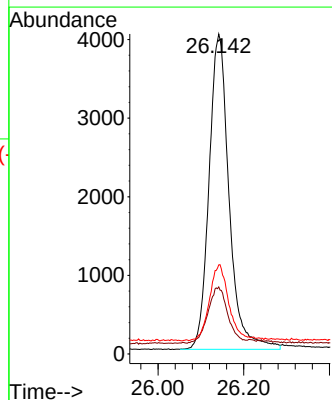
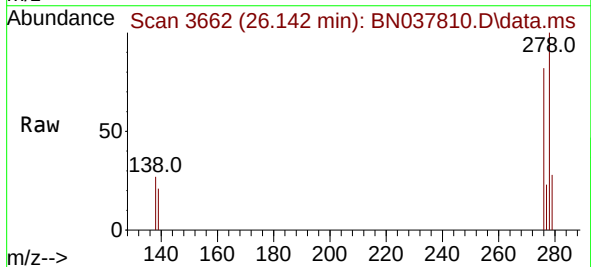
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250916MSD

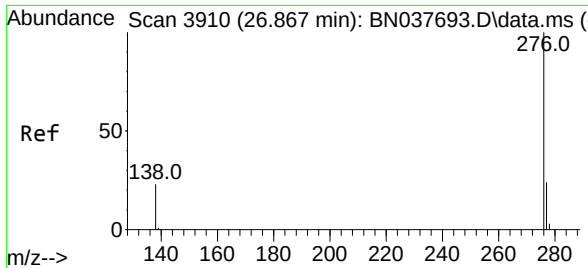
Tgt Ion:252	Resp:	12334
Ion Ratio	Lower	Upper
252	100	
253	26.3	20.8 31.2
125	21.2	13.9 20.9#



#40
Dibenzo(a,h)anthracene
Concen: 0.398 ng
RT: 26.142 min Scan# 3662
Delta R.T. -0.021 min
Lab File: BN037810.D
Acq: 19 Sep 2025 12:27

Tgt Ion:278	Resp:	13012
Ion Ratio	Lower	Upper
278	100	
139	21.0	17.8 26.6
279	27.8	22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 0.348 ng

RT: 26.849 min Scan# 3904

Delta R.T. -0.018 min

Lab File: BN037810.D

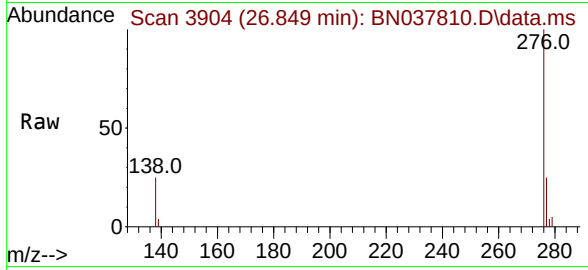
Acq: 19 Sep 2025 12:27

Instrument :

BNA_N

ClientSampleId :

TT119S1-20250916MSD



Tgt Ion:276 Resp: 12751

Ion Ratio Lower Upper

276 100

277 25.1 20.6 31.0

138 25.3 20.2 30.2

