

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 : Q1582

ATTENTION : Eleanor Vivadou



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q1582

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

Client : AECOM Technical Services, Inc.

Lab Sample Number

Q1582-01
Q1582-02
Q1582-03
Q1582-04
Q1582-05
Q1582-06
Q1582-07
Q1582-08
Q1582-09
Q1582-10
Q1582-11
Q1582-12
Q1582-13
Q1582-14
Q1582-15
Q1582-16

Client Sample Number

RE117D1-20250313
TT180D1-20250313
TT180D2-20250313
TT180D-20250313
FB02-20250313
RE131D1-20250313
RE131D2-20250313
RE131D3-20250313
TT119S1-20250313
RE114D1-20250313
BPOW1-7-20250314
BPOW1-8-20250314
TT191D1-20250314
TT191D2-20250314
DUP06-20250314
FB

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

Signature : _____

Date: 3/26/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

AECOM Technical Services, Inc.

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

Project # N/A

Chemtech Project # Q1582

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

16 Water samples were received on 03/14/2025.

B. Parameters

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

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for PB167159BSD [2-Fluorobiphenyl - 108%], RE131D1-20250313DL [Terphenyl-d14 - 160%] and RE131D3-20250313 [Terphenyl-d14 - 137%]. These failure surrogates are not associated with the client list, as per criteria affected surrogates were passing, therefore no corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria.

The Blank Spike met requirements for all samples.

The Blank Spike Duplicate met requirements for all samples.

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

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

Samples TT180D2-20250313, RE131D1-20250313 and RE131D2-20250313 were diluted due to high concentrations.



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

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.

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

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

CHEMTECH PROJECT NUMBER: Q1582

MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓
	The Initial Calibration met the requirements.			
	The Continuous Calibration met the requirements.			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries met the acceptable criteria except for PB167159BSD [2- Fluorobiphenyl - 108%], RE131D1-20250313DL [Terphenyl-d14 - 160%] and RE131D3-20250313 [Terphenyl-d14 - 137%]. Thses failure surrogates are not associated with the client list, as per criteria affected surrogates were passing, therefore no corrective action was taken.			
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Blank Spike met requirements for all samples.			
	The Blank Spike Duplicate met requirements for all samples.			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			

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

		NA	NO	YES
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

Samples TT180D2-20250313, RE131D1-20250313 and RE131D2-20250313 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.

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

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1582

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: MOHAMMAD AHMED

Date: 03/26/2025

LAB CHRONICLE

OrderID:	Q1582	OrderDate:	3/14/2025 1:09:00 PM
Client:	AECOM Technical Services, Inc.	Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	Location:	I42,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1582-01	RE117D1-20250313	Water	SVOC-SIMGroup1	8270-Modified	03/13/25	03/17/25	03/17/25	03/14/25
Q1582-02	TT180D1-20250313	Water	SVOC-SIMGroup1	8270-Modified	03/13/25	03/17/25	03/17/25	03/14/25
Q1582-03	TT180D2-20250313	Water	SVOC-SIMGroup1	8270-Modified	03/13/25	03/17/25	03/17/25	03/14/25
Q1582-03DL	TT180D2-20250313DL	Water	SVOC-SIMGroup1	8270-Modified	03/13/25	03/17/25	03/18/25	03/14/25
Q1582-04	TT180D-20250313	Water	SVOC-SIMGroup1	8270-Modified	03/13/25	03/17/25	03/17/25	03/14/25
Q1582-05	FB02-20250313	Water	SVOC-SIMGroup1	8270-Modified	03/13/25	03/17/25	03/17/25	03/14/25
Q1582-06	RE131D1-20250313	Water	SVOC-SIMGroup1	8270-Modified	03/13/25	03/17/25	03/17/25	03/14/25
Q1582-06DL	RE131D1-20250313DL	Water	SVOC-SIMGroup1	8270-Modified	03/13/25	03/17/25	03/18/25	03/14/25
Q1582-07	RE131D2-20250313	Water	SVOC-SIMGroup1	8270-Modified	03/13/25	03/17/25	03/17/25	03/14/25
Q1582-07DL	RE131D2-20250313DL	Water	SVOC-SIMGroup1	8270-Modified	03/13/25	03/17/25	03/18/25	03/14/25
Q1582-08	RE131D3-20250313	Water	SVOC-SIMGroup1	8270-Modified	03/13/25	03/17/25	03/17/25	03/14/25

LAB CHRONICLE

Q1582-09	TT119S1-20250313	Water			03/13/25			03/14/25
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/17/25	
Q1582-10	RE114D1-20250313	Water			03/13/25			03/14/25
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/18/25	
Q1582-11	BPOW1-7-20250314	Water			03/14/25			03/14/25
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/18/25	
Q1582-12	BPOW1-8-20250314	Water			03/14/25			03/14/25
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/18/25	
Q1582-13	TT191D1-20250314	Water			03/14/25			03/14/25
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/18/25	
Q1582-14	TT191D2-20250314	Water			03/14/25			03/14/25
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/18/25	
Q1582-15	DUP06-20250314	Water			03/14/25			03/14/25
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/18/25	

Hit Summary Sheet SW-846

SDG No.: Q1582

Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	RE117D1-20250313								
Q1582-01	RE117D1-20250313	WATER	1,4-Dioxane	0.740		0.07	0.2	0.2	ug/L
			Total Svoc :			0.74			
			Total Concentration:			0.74			
Client ID :	TT180D1-20250313								
Q1582-02	TT180D1-20250313	WATER	1,4-Dioxane	3.900		0.07	0.21	0.21	ug/L
			Total Svoc :			3.90			
			Total Concentration:			3.90			
Client ID :	TT180D2-20250313								
Q1582-03	TT180D2-20250313	WATER	1,4-Dioxane	5.200	E	0.07	0.2	0.2	ug/L
			Total Svoc :			5.20			
			Total Concentration:			5.20			
Client ID :	TT180D2-20250313DL								
Q1582-03DL	TT180D2-20250313DL	WATER	1,4-Dioxane	5.000	D	0.14	0.4	0.4	ug/L
			Total Svoc :			5.00			
			Total Concentration:			5.00			
Client ID :	TT180D-20250313								
Q1582-04	TT180D-20250313	WATER	1,4-Dioxane	0.200		0.07	0.2	0.2	ug/L
			Total Svoc :			0.20			
			Total Concentration:			0.20			
Client ID :	RE131D1-20250313								
Q1582-06	RE131D1-20250313	WATER	1,4-Dioxane	9.000	E	0.07	0.2	0.2	ug/L
			Total Svoc :			9.00			
			Total Concentration:			9.00			
Client ID :	RE131D1-20250313DL								
Q1582-06DL	RE131D1-20250313DL	WATER	1,4-Dioxane	9.700	D	0.35	1	1	ug/L
			Total Svoc :			9.70			
			Total Concentration:			9.70			
Client ID :	RE131D2-20250313								
Q1582-07	RE131D2-20250313	WATER	1,4-Dioxane	10.700	E	0.07	0.21	0.21	ug/L
			Total Svoc :			10.70			
			Total Concentration:			10.70			
Client ID :	RE131D2-20250313DL								
Q1582-07DL	RE131D2-20250313DL	WATER	1,4-Dioxane	11.600	D	0.36	1.1	1.1	ug/L
			Total Svoc :			11.60			

Hit Summary Sheet
SW-846

SDG No.: Q1582
Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Total Concentration:			11.60					
Client ID :	RE131D3-20250313							
Q1582-08	RE131D3-20250313	WATER	1,4-Dioxane	2.500	0.07	0.2	0.2	ug/L
Total Svoc :			2.50					
Total Concentration:			2.50					
Client ID :	RE114D1-20250313							
Q1582-10	RE114D1-20250313	WATER	1,4-Dioxane	4.000	0.07	0.2	0.2	ug/L
Total Svoc :			4.00					
Total Concentration:			4.00					
Client ID :	TT191D1-20250314							
Q1582-13	TT191D1-20250314	WATER	1,4-Dioxane	2.600	0.07	0.21	0.21	ug/L
Total Svoc :			2.60					
Total Concentration:			2.60					
Client ID :	TT191D2-20250314							
Q1582-14	TT191D2-20250314	WATER	1,4-Dioxane	0.570	0.07	0.2	0.2	ug/L
Total Svoc :			0.57					
Total Concentration:			0.57					



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q1582

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB167159BL	PB167159BL	2-Methylnaphthalene-d10	0.4	0.35	86		30	150
		Fluoranthene-d10	0.4	0.42	105		30	150
		Nitrobenzene-d5	0.4	0.36	91		55	111
		2-Fluorobiphenyl	0.4	0.25	63		53	106
		Terphenyl-d14	0.4	0.43	107		58	132
PB167159BS	PB167159BS	2-Methylnaphthalene-d10	0.4	0.43	108		30	150
		Fluoranthene-d10	0.4	0.34	85		30	150
		Nitrobenzene-d5	0.4	0.37	92		55	111
		2-Fluorobiphenyl	0.4	0.41	103		53	106
		Terphenyl-d14	0.4	0.41	102		58	132
PB167159BSD	PB167159BSD	2-Methylnaphthalene-d10	0.4	0.40	99		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.38	94		55	111
		2-Fluorobiphenyl	0.4	0.43	108	*	53	106
		Terphenyl-d14	0.4	0.43	107		58	132
Q1582-01	RE117D1-20250313	2-Methylnaphthalene-d10	0.4	0.33	82		30	150
		Fluoranthene-d10	0.4	0.43	106		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.38	94		53	106
		Terphenyl-d14	0.4	0.45	113		58	132
Q1582-02	TT180D1-20250313	2-Methylnaphthalene-d10	0.4	0.29	73		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.51	127		58	132
Q1582-03	TT180D2-20250313	2-Methylnaphthalene-d10	0.4	0.28	69		30	150
		Fluoranthene-d10	0.4	0.44	110		30	150
		Nitrobenzene-d5	0.4	0.29	73		55	111
		2-Fluorobiphenyl	0.4	0.27	68		53	106
		Terphenyl-d14	0.4	0.51	127		58	132
Q1582-03DL	TT180D2-20250313DL	2-Methylnaphthalene-d10	0.4	0.26	64		30	150
		Fluoranthene-d10	0.4	0.41	101		30	150
		Nitrobenzene-d5	0.4	0.27	67		55	111
		2-Fluorobiphenyl	0.4	0.24	59		53	106
		Terphenyl-d14	0.4	0.47	118		58	132
Q1582-04	TT180D-20250313	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.31	76		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.46	114		58	132
Q1582-05	FB02-20250313	2-Methylnaphthalene-d10	0.4	0.30	75		30	150
		Fluoranthene-d10	0.4	0.43	107		30	150
		Nitrobenzene-d5	0.4	0.32	80		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.53	132		58	132
Q1582-06	RE131D1-20250313	2-Methylnaphthalene-d10	0.4	0.26	66		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.31	78		53	106
		Terphenyl-d14	0.4	0.45	113		58	132
Q1582-06DL	RE131D1-20250313DL	2-Methylnaphthalene-d10	0.4	0.30	74		30	150

Surrogate Summary

SW-846

SDG No.: Q1582

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q1582-06DL	RE131D1-20250313DL	Fluoranthene-d10	0.4	0.46	115		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.28	69		53	106
		Terphenyl-d14	0.4	0.64	160	*	58	132
Q1582-07	RE131D2-20250313	2-Methylnaphthalene-d10	0.4	0.25	62		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.27	67		55	111
		2-Fluorobiphenyl	0.4	0.27	67		53	106
Q1582-07DL	RE131D2-20250313DL	Terphenyl-d14	0.4	0.46	114		58	132
		2-Methylnaphthalene-d10	0.4	0.28	69		30	150
		Fluoranthene-d10	0.4	0.45	111		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
Q1582-08	RE131D3-20250313	2-Fluorobiphenyl	0.4	0.30	74		53	106
		Terphenyl-d14	0.4	0.47	116		58	132
		2-Methylnaphthalene-d10	0.4	0.31	76		30	150
		Fluoranthene-d10	0.4	0.46	116		30	150
Q1582-09	TT119S1-20250313	Nitrobenzene-d5	0.4	0.32	81		55	111
		2-Fluorobiphenyl	0.4	0.34	84		53	106
		Terphenyl-d14	0.4	0.55	137	*	58	132
		2-Methylnaphthalene-d10	0.4	0.29	73		30	150
Q1582-10	RE114D1-20250313	Fluoranthene-d10	0.4	0.44	110		30	150
		Nitrobenzene-d5	0.4	0.30	76		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.49	123		58	132
Q1582-11	BPOW1-7-20250314	2-Methylnaphthalene-d10	0.4	0.24	61		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.25	63		55	111
		2-Fluorobiphenyl	0.4	0.27	67		53	106
Q1582-12	BPOW1-8-20250314	Terphenyl-d14	0.4	0.39	97		58	132
		2-Methylnaphthalene-d10	0.4	0.29	73		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.28	70		55	111
Q1582-13	TT191D1-20250314	2-Fluorobiphenyl	0.4	0.29	74		53	106
		Terphenyl-d14	0.4	0.51	127		58	132
		2-Methylnaphthalene-d10	0.4	0.31	76		30	150
		Fluoranthene-d10	0.4	0.44	109		30	150
Q1582-14	TT191D2-20250314	Nitrobenzene-d5	0.4	0.30	74		55	111
		2-Fluorobiphenyl	0.4	0.33	81		53	106
		Terphenyl-d14	0.4	0.50	124		58	132
		2-Methylnaphthalene-d10	0.4	0.25	63		30	150
Q1582-15	DUP06-20250314	Fluoranthene-d10	0.4	0.43	107		30	150
		Nitrobenzene-d5	0.4	0.30	74		55	111
		2-Fluorobiphenyl	0.4	0.29	74		53	106
		Terphenyl-d14	0.4	0.46	115		58	132
Q1582-16	BPOW1-9-20250314	2-Methylnaphthalene-d10	0.4	0.24	60		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.27	67		53	106
Q1582-17	BPOW1-10-20250314	Terphenyl-d14	0.4	0.41	102		58	132
		2-Methylnaphthalene-d10	0.4	0.24	60		30	150
		Fluoranthene-d10	0.4	0.42	105		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111

Surrogate Summary

SW-846

SDG No.: Q1582

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q1582-15	DUP06-20250314	Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.27	68		53	106
		Terphenyl-d14	0.4	0.49	122		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1582

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified DataFile: BN036665.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		
								Qual	Low	High	RPD
PB167159BS	1,4-Dioxane	0.4	0.37	ug/L	93				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1582

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified DataFile: BN036680.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB167159BSD	1,4-Dioxane	0.4	0.38	ug/L	95	3			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167159BL

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM Case No.: Q1582

SAS No.: Q1582 SDG NO.: Q1582

Lab File ID: BN036684.D

Lab Sample ID: PB167159BL

Instrument ID: BNA_N

Date Extracted: 03/17/2025

Matrix: (soil/water) Water

Date Analyzed: 03/18/2025

Level: (low/med) LOW

Time Analyzed: 09:57

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167159BS	PB167159BS	BN036665.D	03/17/2025
PB167159BSD	PB167159BSD	BN036680.D	03/18/2025
RE117D1-20250313	Q1582-01	BN036659.D	03/17/2025
TT180D1-20250313	Q1582-02	BN036660.D	03/17/2025
TT180D2-20250313	Q1582-03	BN036661.D	03/17/2025
TT180D-20250313	Q1582-04	BN036662.D	03/17/2025
FB02-20250313	Q1582-05	BN036663.D	03/17/2025
RE131D1-20250313	Q1582-06	BN036664.D	03/17/2025
RE131D2-20250313	Q1582-07	BN036670.D	03/17/2025
RE131D3-20250313	Q1582-08	BN036671.D	03/17/2025
TT119S1-20250313	Q1582-09	BN036672.D	03/17/2025
RE114D1-20250313	Q1582-10	BN036673.D	03/18/2025
BPOW1-7-20250314	Q1582-11	BN036674.D	03/18/2025
BPOW1-8-20250314	Q1582-12	BN036675.D	03/18/2025
TT191D1-20250314	Q1582-13	BN036676.D	03/18/2025
TT191D2-20250314	Q1582-14	BN036677.D	03/18/2025
DUP06-20250314	Q1582-15	BN036678.D	03/18/2025

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: AECO15Lab Code: CHEMSAS No.: Q1582SDG NO.: Q1582Lab File ID: BN036556.DDFTPP Injection Date: 03/10/2025Instrument ID: BNA_NDFTPP Injection Time: 11:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	58.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	52.3
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	50.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	24.8
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	9.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.9 (19.6) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN036557.D	03/10/2025	11:42
SSTDICC0.2	SSTDICC0.2	BN036558.D	03/10/2025	12:18
SSTDICCC0.4	SSTDICCC0.4	BN036559.D	03/10/2025	12:54
SSTDICC0.8	SSTDICC0.8	BN036560.D	03/10/2025	13:31
SSTDICC1.6	SSTDICC1.6	BN036561.D	03/10/2025	14:07
SSTDICC3.2	SSTDICC3.2	BN036562.D	03/10/2025	14:43
SSTDICC5.0	SSTDICC5.0	BN036563.D	03/10/2025	15:19



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: AECO15Lab Code: CHEMSAS No.: Q1582SDG NO.: Q1582Lab File ID: BN036650.DDFTPP Injection Date: 03/17/2025Instrument ID: BNA_NDFTPP Injection Time: 09:10

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	71.6
68	Less than 2.0% of mass 69	0.9 (1.5) 1
69	Mass 69 relative abundance	60.1
70	Less than 2.0% of mass 69	0.4 (0.6) 1
127	10.0 - 80.0% of mass 198	55
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 60.0% of mass 198	24.7
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	8.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.3 (21.3) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN036651.D	03/17/2025	09:49
RE117D1-20250313	Q1582-01	BN036659.D	03/17/2025	14:55
TT180D1-20250313	Q1582-02	BN036660.D	03/17/2025	15:31
TT180D2-20250313	Q1582-03	BN036661.D	03/17/2025	16:07
TT180D-20250313	Q1582-04	BN036662.D	03/17/2025	16:43
FB02-20250313	Q1582-05	BN036663.D	03/17/2025	17:19
RE131D1-20250313	Q1582-06	BN036664.D	03/17/2025	17:55
PB167159BS	PB167159BS	BN036665.D	03/17/2025	18:31
SSTDCCC0.4EC	SSTDCCC0.4	BN036666.D	03/17/2025	19:08



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: AECO15Lab Code: CHEMSAS No.: Q1582SDG NO.: Q1582Lab File ID: BN036667.DDFTPP Injection Date: 03/17/2025Instrument ID: BNA_NDFTPP Injection Time: 20:23

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	76.1
68	Less than 2.0% of mass 69	0.4 (0.7) 1
69	Mass 69 relative abundance	62.3
70	Less than 2.0% of mass 69	0.2 (0.3) 1
127	10.0 - 80.0% of mass 198	55.2
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	24.6
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	8.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.5 (20.8) 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	BN036668.D	03/17/2025	21:02
RE131D2-20250313	Q1582-07	BN036670.D	03/17/2025	22:15
RE131D3-20250313	Q1582-08	BN036671.D	03/17/2025	22:51
TT119S1-20250313	Q1582-09	BN036672.D	03/17/2025	23:27
RE114D1-20250313	Q1582-10	BN036673.D	03/18/2025	00:03
BPOW1-7-20250314	Q1582-11	BN036674.D	03/18/2025	00:39
BPOW1-8-20250314	Q1582-12	BN036675.D	03/18/2025	01:15
TT191D1-20250314	Q1582-13	BN036676.D	03/18/2025	01:51
TT191D2-20250314	Q1582-14	BN036677.D	03/18/2025	02:28
DUP06-20250314	Q1582-15	BN036678.D	03/18/2025	03:04
TT180D2-20250313DL	Q1582-03DL	BN036679.D	03/18/2025	03:40
PB167159BSD	PB167159BSD	BN036680.D	03/18/2025	04:16
SSTDCCC0.4EC	SSTDCCC0.4	BN036681.D	03/18/2025	04:52



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: AECO15Lab Code: CHEMSAS No.: Q1582SDG NO.: Q1582Lab File ID: BN036682.DDFTPP Injection Date: 03/18/2025Instrument ID: BNA_NDFTPP Injection Time: 08:42

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	69.5
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	58.3
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	53.4
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
275	10.0 - 60.0% of mass 198	23.7
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	9.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.3 (18.7) 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	BN036683.D	03/18/2025	09:21
PB167159BL	PB167159BL	BN036684.D	03/18/2025	09:57
RE131D1-20250313DL	Q1582-06DL	BN036685.D	03/18/2025	10:34
RE131D2-20250313DL	Q1582-07DL	BN036686.D	03/18/2025	11:10
SSTDCCC0.4EC	SSTDCCC0.4	BN036687.D	03/18/2025	12:35

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG NO.: Q1582

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/17/2025

Lab File ID: BN036651.D Time Analyzed: 09:49

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	2063	7.717	5025	10.50	2968	14.36
UPPER LIMIT	4126	8.217	10050	10.998	5936	14.856
LOWER LIMIT	1031.5	7.217	2512.5	9.998	1484	13.856
EPA SAMPLE NO.						
01 RE117D1-20250313	1599	7.72	3736	10.50	2090	14.36
02 TT180D1-20250313	1526	7.72	3719	10.51	2286	14.36
03 TT180D2-20250313	1480	7.72	3511	10.51	2177	14.36
04 TT180D-20250313	1471	7.72	3486	10.51	1974	14.36
05 FB02-20250313	1550	7.72	3768	10.51	2232	14.36
06 RE131D1-20250313	1388	7.72	3220	10.51	1815	14.36
07 PB167159BS	1650	7.72	3863	10.50	1951	14.36

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG NO.: Q1582

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/17/2025

Lab File ID: BN036651.D Time Analyzed: 09:49

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	5703	17.099	3893	21.295	3363	23.546
UPPER LIMIT	11406	17.599	7786	21.795	6726	24.046
LOWER LIMIT	2851.5	16.599	1946.5	20.795	1681.5	23.046
EPA SAMPLE NO.						
01 RE117D1-20250313	3762	17.10	2674	21.30	2457	23.55
02 TT180D1-20250313	4473	17.10	2911	21.30	2391	23.55
03 TT180D2-20250313	4400	17.10	2930	21.30	2432	23.55
04 TT180D-20250313	3397	17.10	2382	21.30	2179	23.55
05 FB02-20250313	4299	17.10	2706	21.30	2307	23.55
06 RE131D1-20250313	3277	17.10	2281	21.30	2088	23.55
07 PB167159BS	3290	17.10	1972	21.30	1878	23.55

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: CHEMTECH

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG NO.: Q1582

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/17/2025

Lab File ID: BN036668.D Time Analyzed: 21:02

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	1326	7.717	3375	10.50	1969	14.36
UPPER LIMIT	2652	8.217	6750	10.998	3938	14.856
LOWER LIMIT	663	7.217	1687.5	9.998	984.5	13.856
EPA SAMPLE NO.						
01 TT119S1-20250313	1721	7.72	4150	10.50	2557	14.36
02 RE114D1-20250313	1655	7.72	4102	10.50	2453	14.36
03 TT180D2-20250313DL	1626	7.72	3810	10.51	2398	14.36
04 BPOW1-7-20250314	1843	7.72	4422	10.50	2743	14.36
05 BPOW1-8-20250314	1645	7.72	4058	10.50	2499	14.36
06 TT191D1-20250314	1725	7.72	4299	10.50	2552	14.36
07 TT191D2-20250314	1797	7.72	4496	10.50	2727	14.36
08 DUP06-20250314	1973	7.72	4653	10.51	2790	14.36
09 PB167159BSD	1799	7.72	4271	10.50	2251	14.36
10 RE131D2-20250313	1739	7.72	4240	10.50	2511	14.36
11 RE131D3-20250313	1476	7.72	3714	10.50	2273	14.36

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG NO.: Q1582

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/17/2025

Lab File ID: BN036668.D Time Analyzed: 21:02

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	3924	17.099	2929	21.295	2659	23.543
UPPER LIMIT	7848	17.599	5858	21.795	5318	24.043
LOWER LIMIT	1962	16.599	1464.5	20.795	1329.5	23.043
EPA SAMPLE NO.						
01 TT119S1-20250313	5105	17.10	3477	21.30	2786	23.55
02 RE114D1-20250313	5059	17.10	3831	21.30	3185	23.55
03 TT180D2-20250313DL	4730	17.10	3082	21.30	2493	23.55
04 BPOW1-7-20250314	5303	17.10	3399	21.30	2777	23.54
05 BPOW1-8-20250314	4951	17.10	3334	21.30	2721	23.55
06 TT191D1-20250314	5075	17.10	3524	21.30	2792	23.55
07 TT191D2-20250314	5582	17.10	3987	21.29	3141	23.54
08 DUP06-20250314	5581	17.10	3549	21.30	2795	23.55
09 PB167159BSD	4157	17.10	2623	21.30	2261	23.54
10 RE131D2-20250313	4784	17.10	3199	21.30	2740	23.54
11 RE131D3-20250313	4572	17.10	3100	21.30	2528	23.55

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: CHEMTECH

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG NO.: Q1582

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/18/2025

Lab File ID: BN036683.D Time Analyzed: 09:21

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	1819	7.71	4524	10.50	2641	14.36
UPPER LIMIT	3638	8.21	9048	10.998	5282	14.855
LOWER LIMIT	909.5	7.21	2262	9.998	1320.5	13.855
EPA SAMPLE NO.						
01 PB167159BL	1698	7.72	3698	10.52	2056	14.37
02 RE131D1-20250313DL	1658	7.72	3783	10.51	2382	14.36
03 RE131D2-20250313DL	2029	7.71	4853	10.50	3032	14.36

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG NO.: Q1582

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/18/2025

Lab File ID: BN036683.D Time Analyzed: 09:21

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	5270	17.099	3871	21.286	3319	23.537
UPPER LIMIT	10540	17.599	7742	21.786	6638	24.037
LOWER LIMIT	2635	16.599	1935.5	20.786	1659.5	23.037
EPA SAMPLE NO.						
01 PB167159BL	3776	17.12	2642	21.30	2442	23.55
02 RE131D1-20250313DL	4560	17.10	3005	21.30	2748	23.54
03 RE131D2-20250313DL	6208	17.10	4364	21.29	3806	23.54

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	RE117D1-20250313	SDG No.:	Q1582
Lab Sample ID:	Q1582-01	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
BN036659.D	1	03/17/25 08:48	03/17/25 14:55	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.74		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		82%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		106%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		94%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		113%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1600	7.717				
1146-65-2	Naphthalene-d8	3740	10.498				
15067-26-2	Acenaphthene-d10	2090	14.355				
1517-22-2	Phenanthrene-d10	3760	17.099				
1719-03-5	Chrysene-d12	2670	21.295				
1520-96-3	Perylene-d12	2460	23.546				

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\BN031725\
Data File : BN036659.D
Acq On : 17 Mar 2025 14:55
Operator : RC/JU
Sample : Q1582-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250313

Quant Time: Mar 17 15:36:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

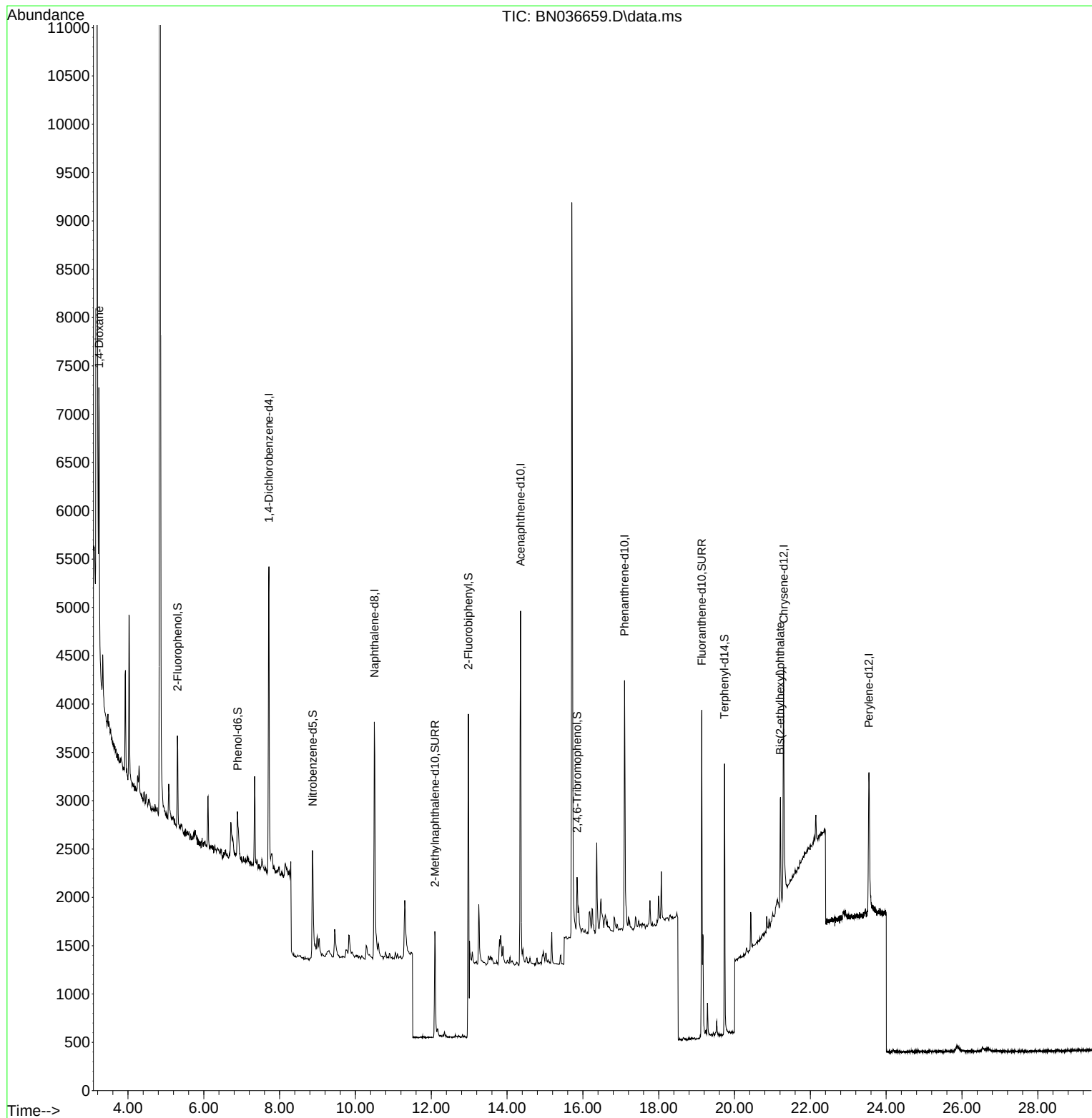
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1599	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	3736	0.400	ng	-0.01
13) Acenaphthene-d10	14.355	164	2090	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	3762	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	2674	0.400	ng	0.00
35) Perylene-d12	23.546	264	2457	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	675	0.181	ng	0.00
5) Phenol-d6	6.894	99	433	0.094	ng	0.00
8) Nitrobenzene-d5	8.875	82	1331	0.327	ng	0.00
11) 2-Methylnaphthalene-d10	12.096	152	1829	0.329	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	346	0.365	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	4575	0.376	ng	-0.01
27) Fluoranthene-d10	19.136	212	4103	0.426	ng	0.00
31) Terphenyl-d14	19.736	244	2883	0.450	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	1315	0.741	ng	# 82
34) Bis(2-ethylhexyl)phtha...	21.205	149	1334	0.201	ng	96

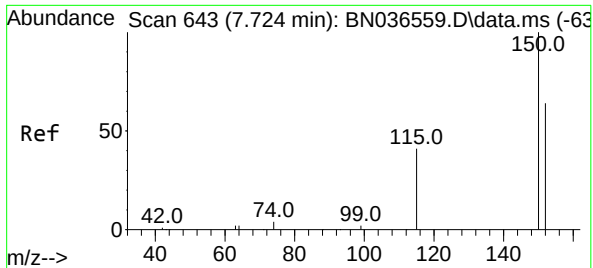
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036659.D
Acq On : 17 Mar 2025 14:55
Operator : RC/JU
Sample : Q1582-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250313

Quant Time: Mar 17 15:36:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

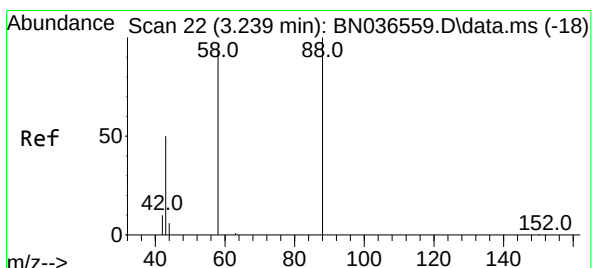
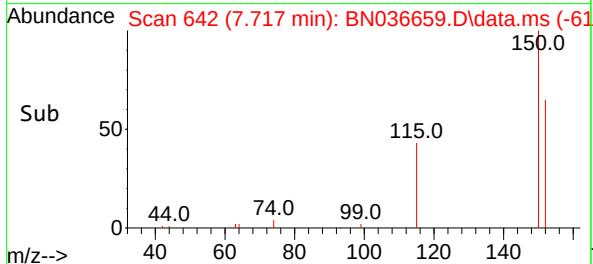
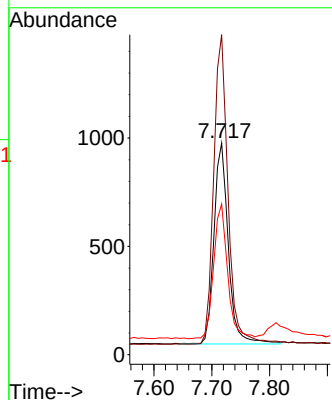
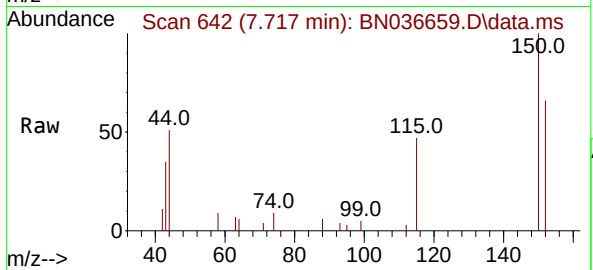




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

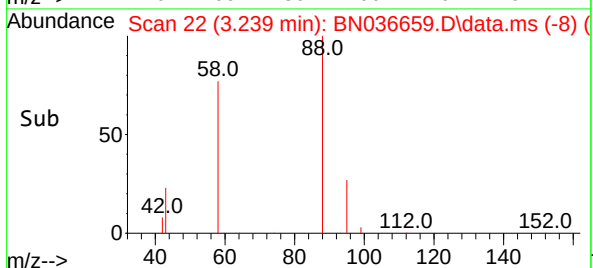
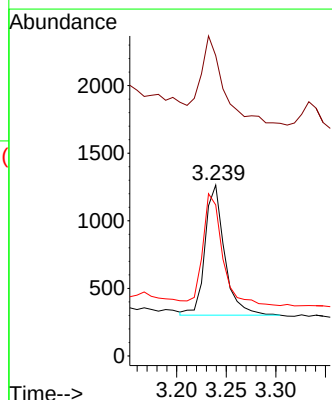
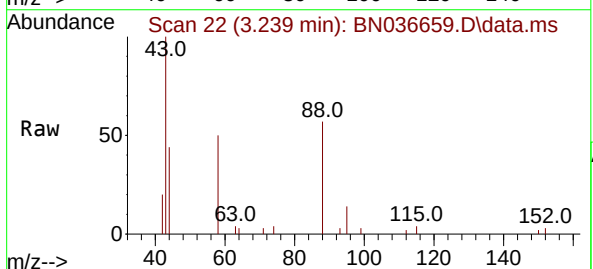
Instrument :
BNA_N
ClientSampleId :
RE117D1-20250313

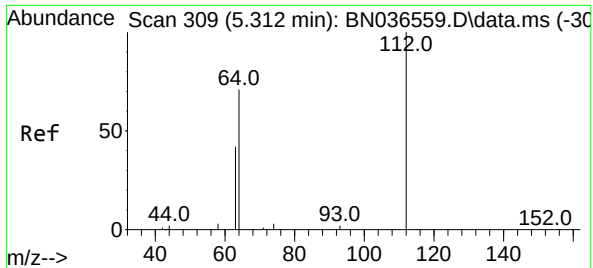
Tgt Ion:152 Resp: 1599
Ion Ratio Lower Upper
152 100
150 151.2 123.7 185.5
115 71.2 54.3 81.5



#2
1,4-Dioxane
Concen: 0.741 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

Tgt Ion: 88 Resp: 1315
Ion Ratio Lower Upper
88 100
43 77.6 37.8 56.8#
58 86.7 67.4 101.2

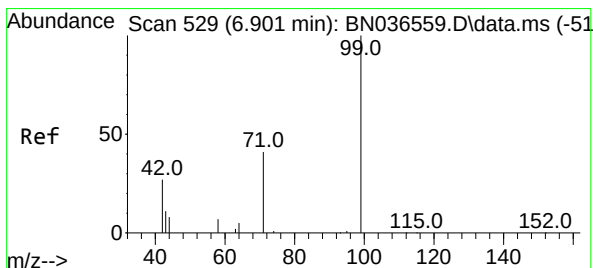
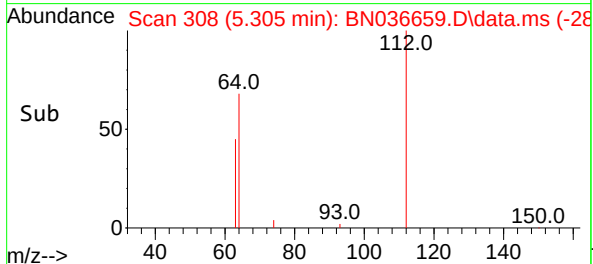
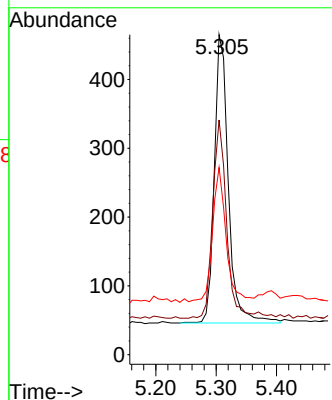
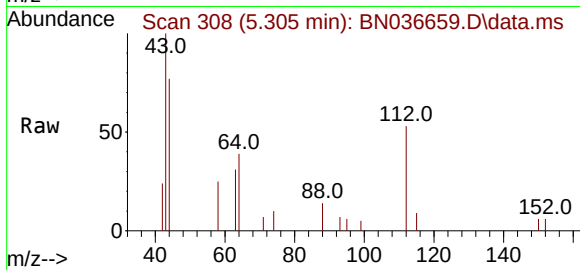




#4
2-Fluorophenol
Concen: 0.181 ng
RT: 5.305 min Scan# 309
Delta R.T. -0.007 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

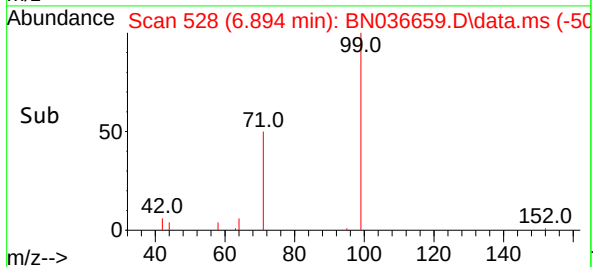
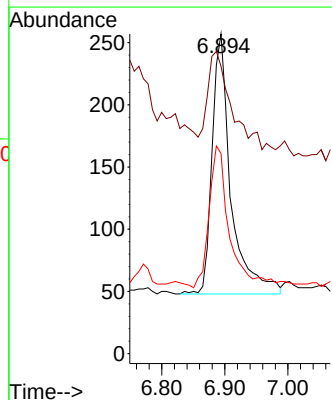
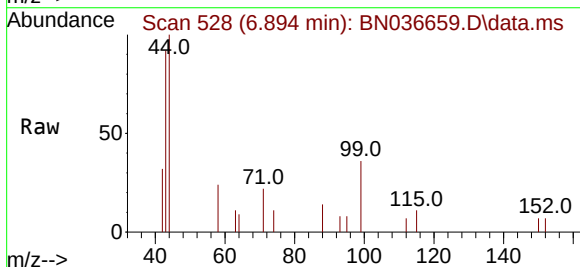
Instrument :
BNA_N
ClientSampleId :
RE117D1-20250313

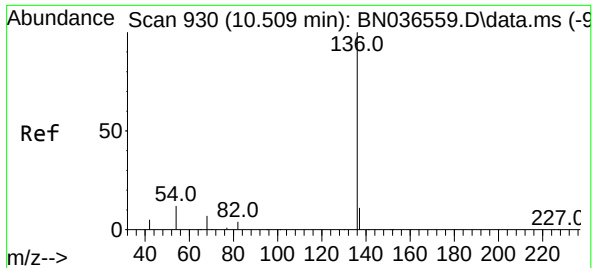
Tgt Ion: 112 Resp: 675
Ion Ratio Lower Upper
112 100
64 68.9 53.1 79.7
63 45.2 31.8 47.8



#5
Phenol-d6
Concen: 0.094 ng
RT: 6.894 min Scan# 528
Delta R.T. -0.007 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

Tgt Ion: 99 Resp: 433
Ion Ratio Lower Upper
99 100
42 49.4 26.5 39.7#
71 60.7 34.1 51.1#

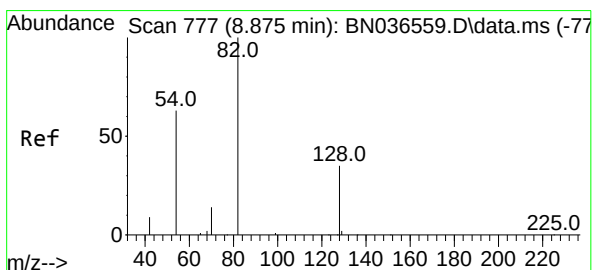
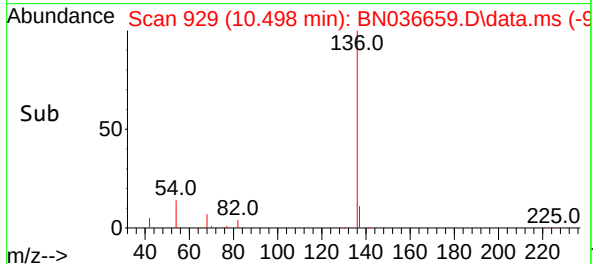
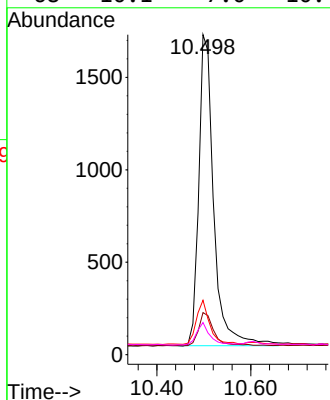
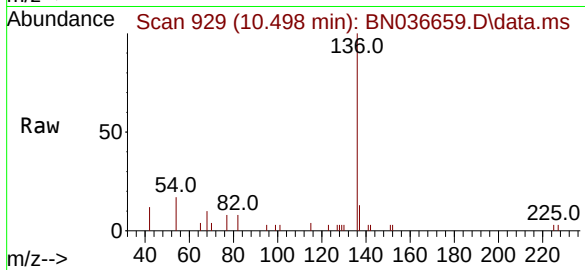




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

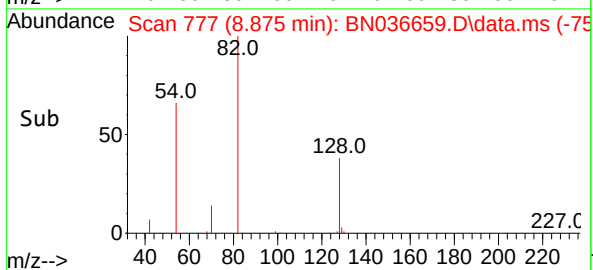
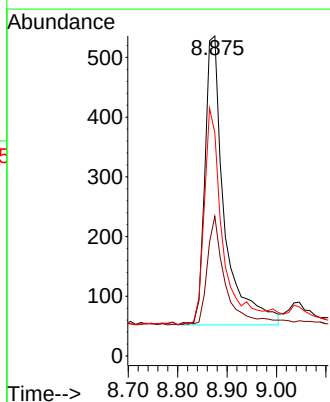
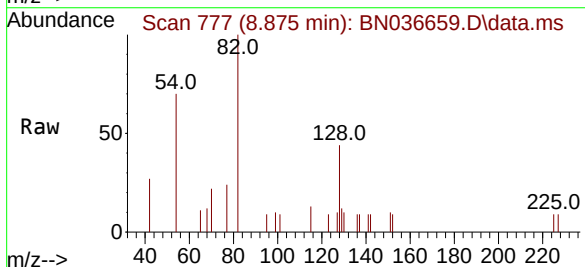
Instrument :
BNA_N
ClientSampleId :
RE117D1-20250313

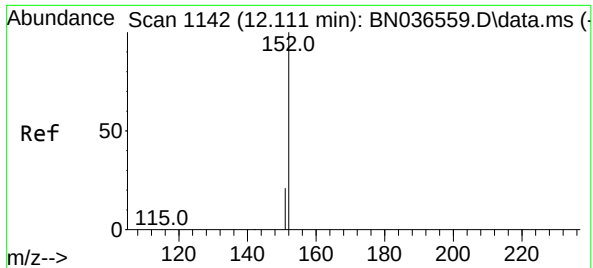
Tgt Ion:	136	Resp:	3736
Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.3	15.5
54	17.0	11.5	17.3
68	10.1	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.327 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

Tgt Ion:	82	Resp:	1331
Ion	Ratio	Lower	Upper
82	100		
128	43.7	30.6	45.8
54	69.8	52.2	78.4

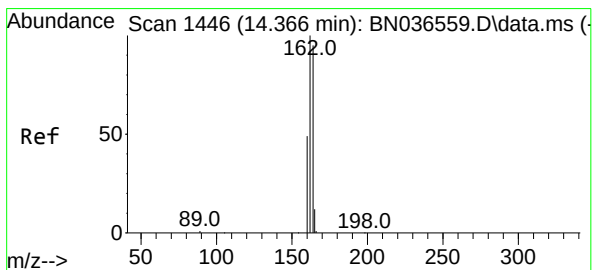
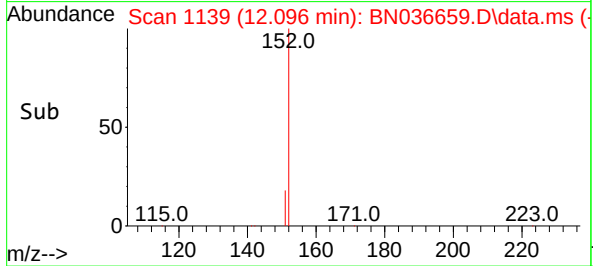
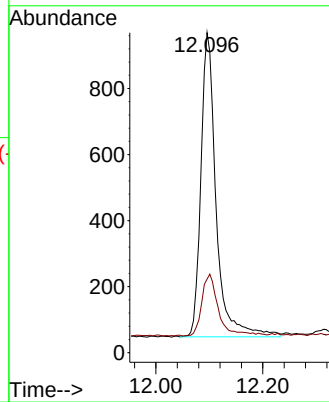
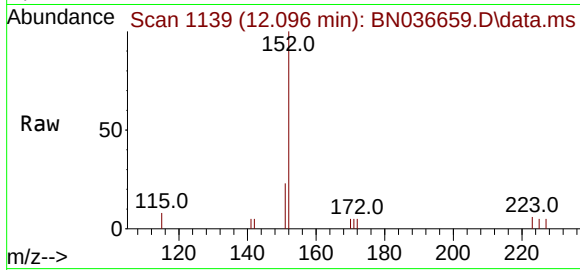




#11
2-Methylnaphthalene-d10
Concen: 0.329 ng
RT: 12.096 min Scan# 1142
Delta R.T. -0.015 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

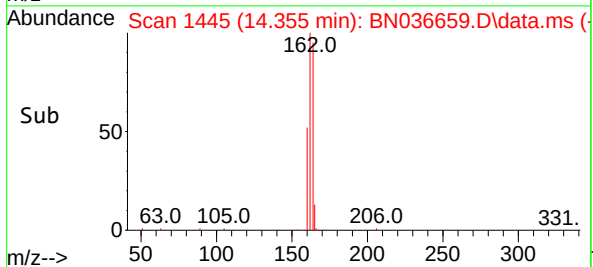
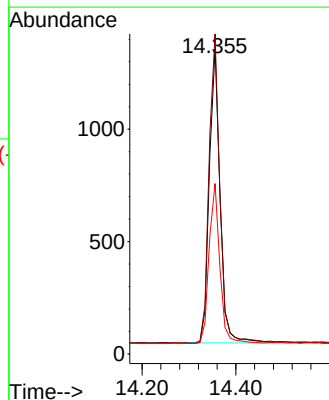
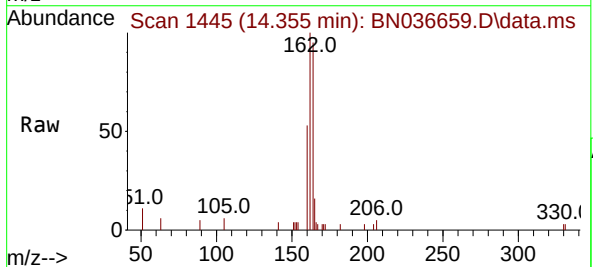
Instrument :
BNA_N
ClientSampleId :
RE117D1-20250313

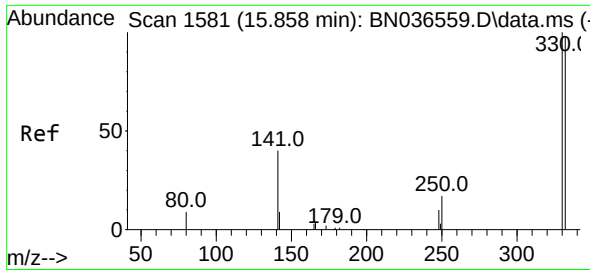
Tgt Ion:152 Resp: 1829
Ion Ratio Lower Upper
152 100
151 22.2 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

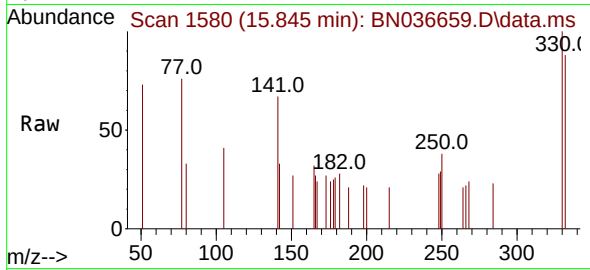
Tgt Ion:164 Resp: 2090
Ion Ratio Lower Upper
164 100
162 104.9 84.2 126.2
160 55.8 42.2 63.2



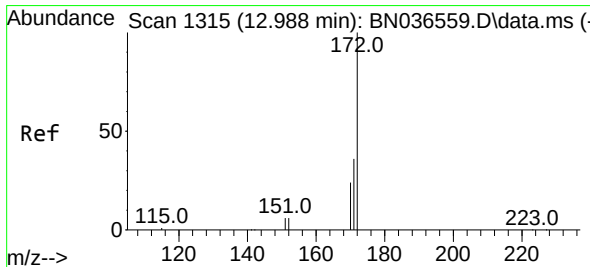
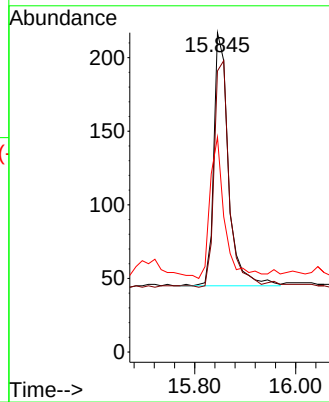
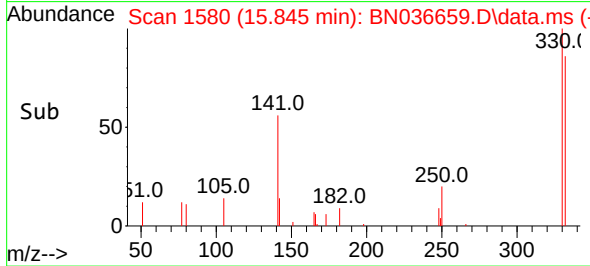


#14
2,4,6-Tribromophenol
Concen: 0.365 ng
RT: 15.845 min Scan# 11
Delta R.T. -0.012 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

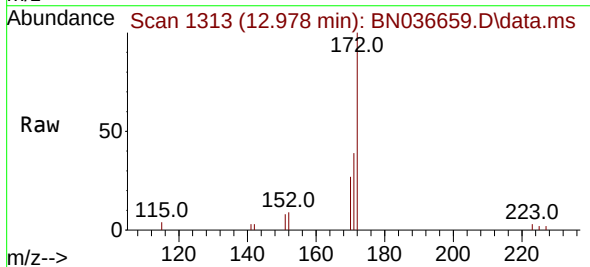
Instrument :
BNA_N
ClientSampleId :
RE117D1-20250313



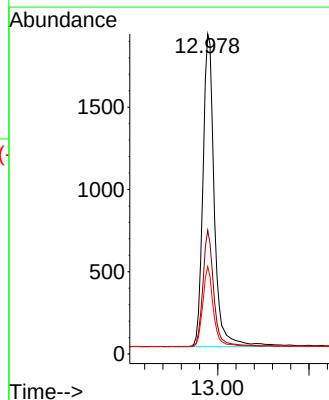
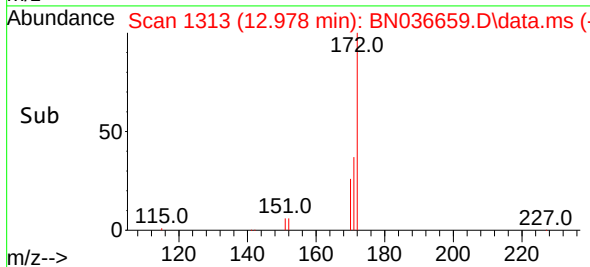
Tgt Ion:330 Resp: 346
Ion Ratio Lower Upper
330 100
332 92.8 75.2 112.8
141 55.8 43.4 65.2

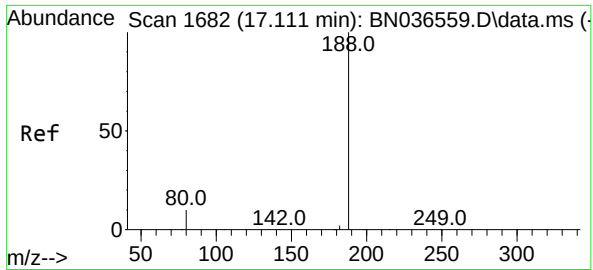


#15
2-Fluorobiphenyl
Concen: 0.376 ng
RT: 12.978 min Scan# 1313
Delta R.T. -0.010 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55



Tgt Ion:172 Resp: 4575
Ion Ratio Lower Upper
172 100
171 38.7 29.5 44.3
170 27.3 20.2 30.4





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN036659.D

Acq: 17 Mar 2025 14:55

Instrument :

BNA_N

ClientSampleId :

RE117D1-20250313

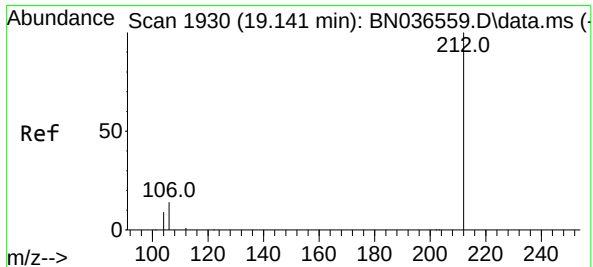
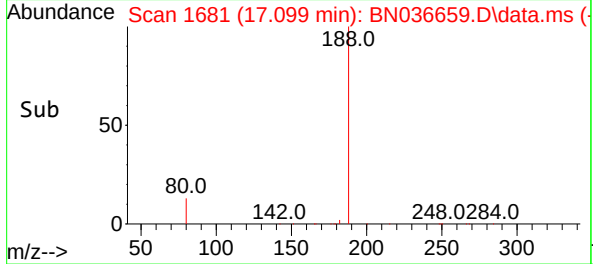
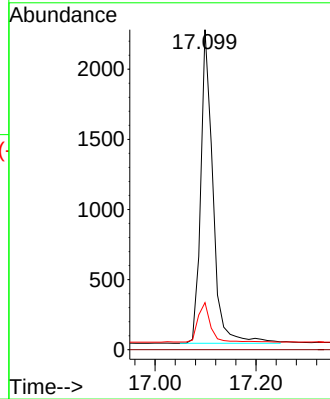
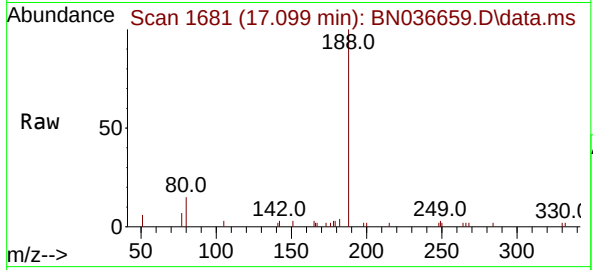
Tgt Ion:188 Resp: 3762

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.7 8.8 13.2#



#27

Fluoranthene-d10

Concen: 0.426 ng

RT: 19.136 min Scan# 1929

Delta R.T. -0.005 min

Lab File: BN036659.D

Acq: 17 Mar 2025 14:55

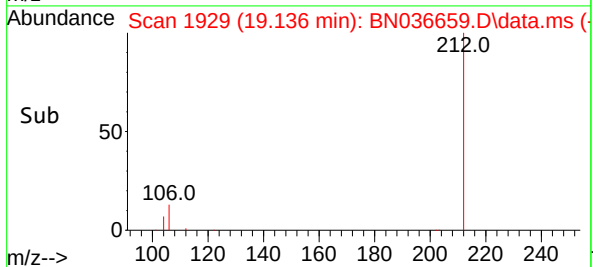
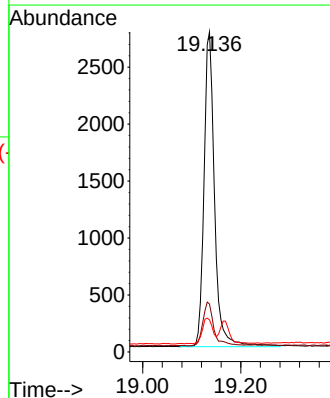
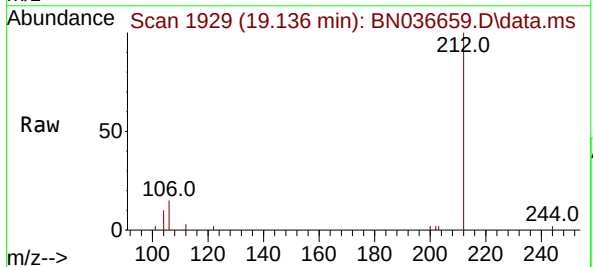
Tgt Ion:212 Resp: 4103

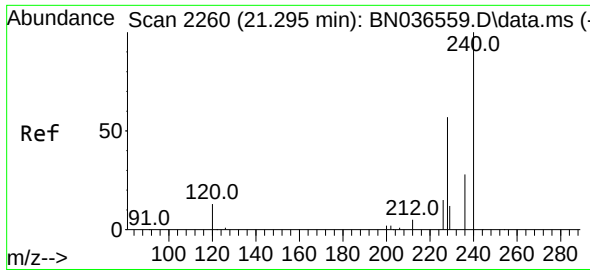
Ion Ratio Lower Upper

212 100

106 14.4 11.8 17.6

104 8.1 7.3 10.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036659.D

Acq: 17 Mar 2025 14:55

Instrument :

BNA_N

ClientSampleId :

RE117D1-20250313

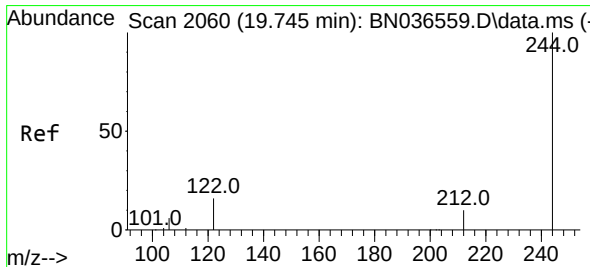
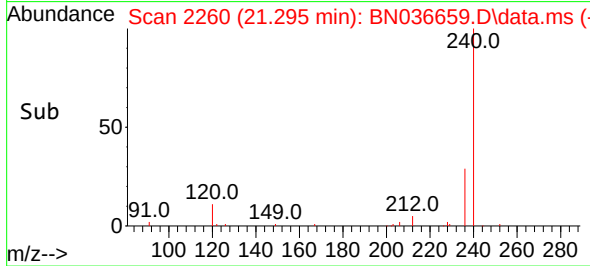
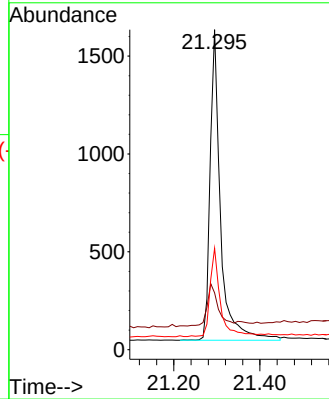
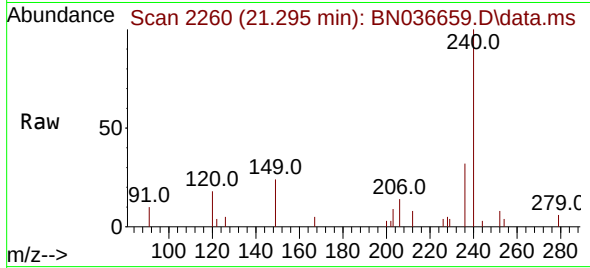
Tgt Ion:240 Resp: 2674

Ion Ratio Lower Upper

240 100

120 17.7 14.6 22.0

236 31.7 24.1 36.1



#31

Terphenyl-d14

Concen: 0.450 ng

RT: 19.736 min Scan# 2058

Delta R.T. -0.009 min

Lab File: BN036659.D

Acq: 17 Mar 2025 14:55

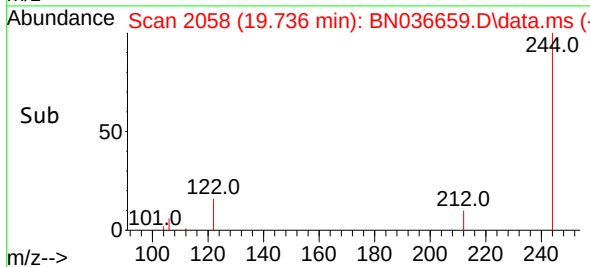
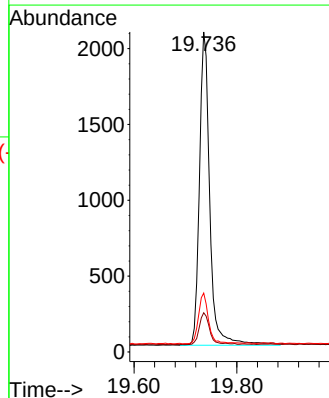
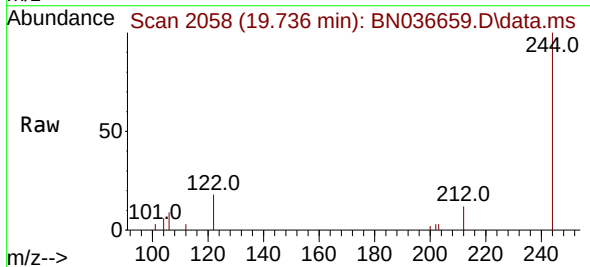
Tgt Ion:244 Resp: 2883

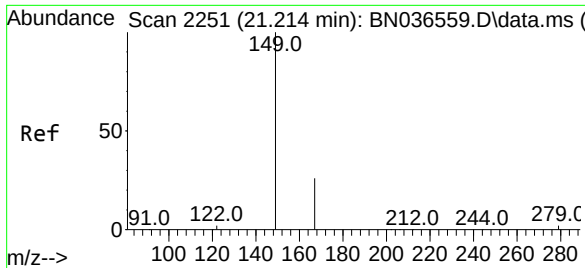
Ion Ratio Lower Upper

244 100

212 12.3 9.6 14.4

122 18.4 13.9 20.9

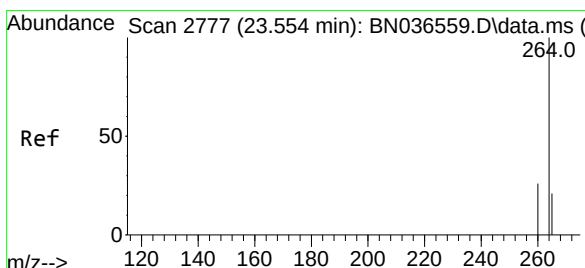
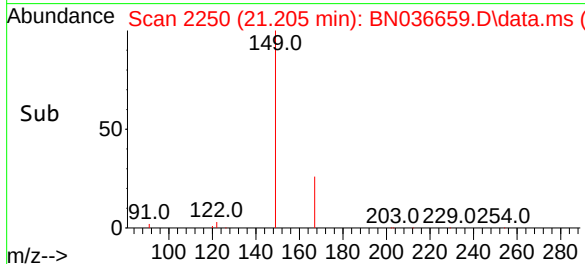
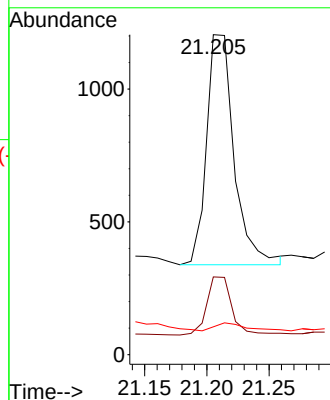
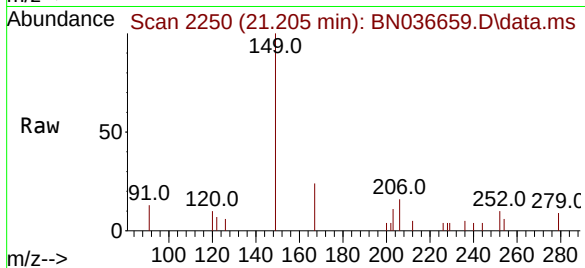




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.201 ng
RT: 21.205 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

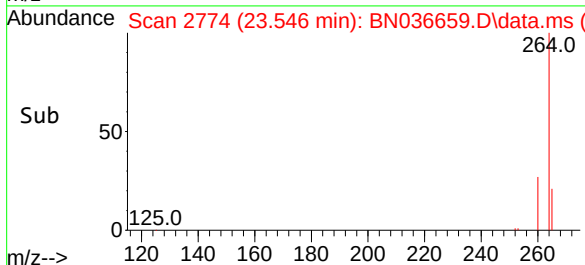
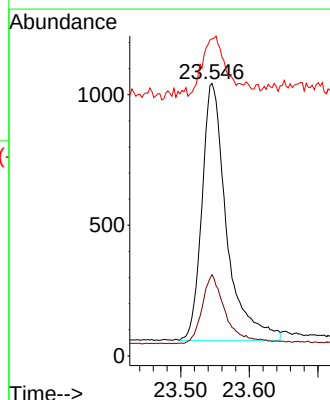
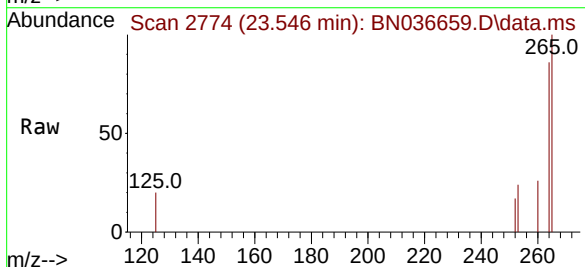
Instrument :
BNA_N
ClientSampleId :
RE117D1-20250313

Tgt Ion:149 Resp: 1334
Ion Ratio Lower Upper
149 100
167 23.4 20.7 31.1
279 3.9 3.6 5.4



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.546 min Scan# 2774
Delta R.T. -0.009 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

Tgt Ion:264 Resp: 2457
Ion Ratio Lower Upper
264 100
260 29.8 22.6 33.8
265 116.4 88.1 132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	TT180D1-20250313	SDG No.:	Q1582
Lab Sample ID:	Q1582-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	940 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
BN036660.D	1	03/17/25 08:48	03/17/25 15:31	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.90		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		73%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		127%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1530	7.717				
1146-65-2	Naphthalene-d8	3720	10.509				
15067-26-2	Acenaphthene-d10	2290	14.355				
1517-22-2	Phenanthrene-d10	4470	17.099				
1719-03-5	Chrysene-d12	2910	21.295				
1520-96-3	Perylene-d12	2390	23.546				

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\BN031725\
Data File : BN036660.D
Acq On : 17 Mar 2025 15:31
Operator : RC/JU
Sample : Q1582-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT180D1-20250313

Quant Time: Mar 17 16:25:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

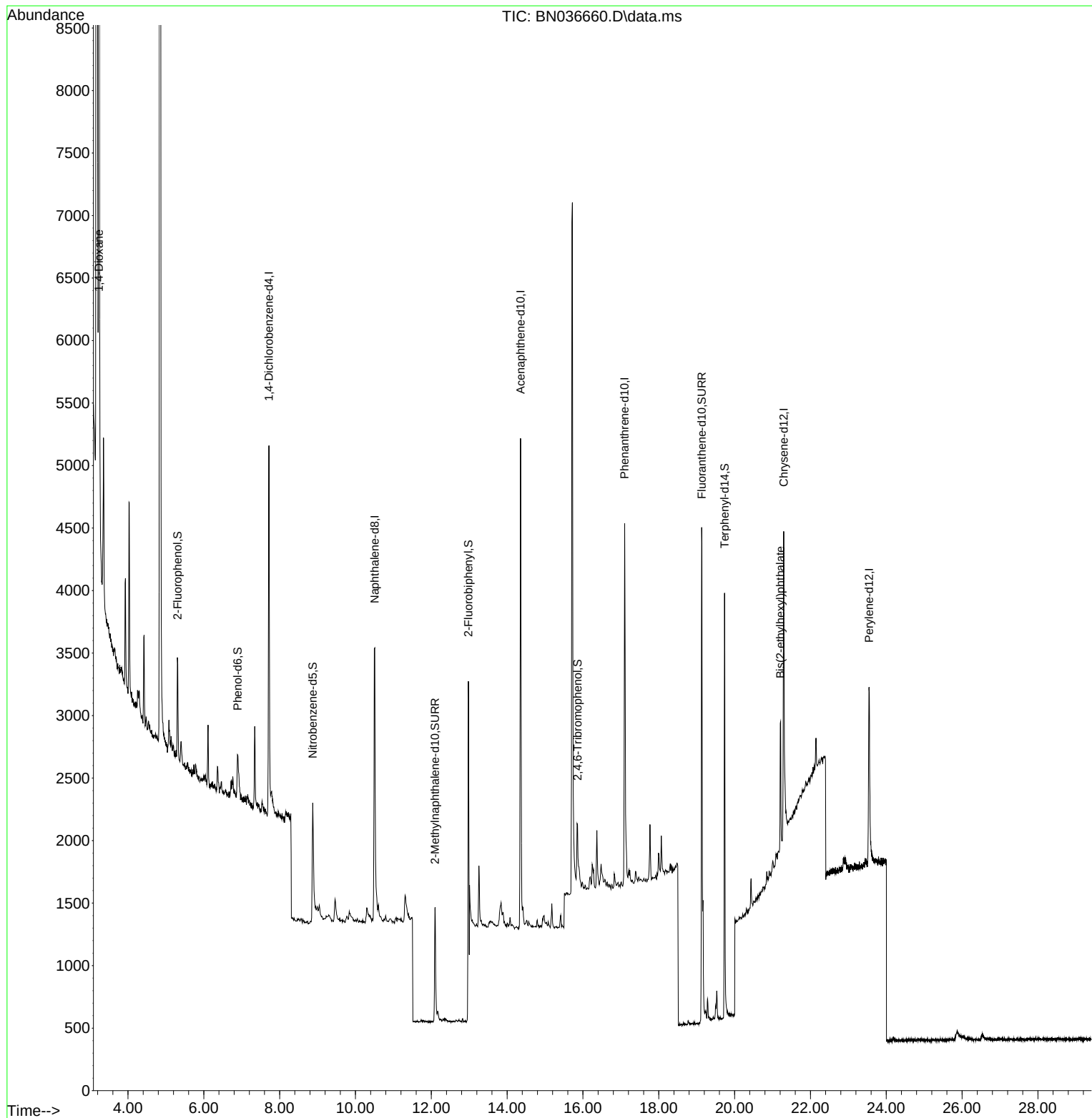
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1526	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	3719	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	2286	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	4473	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	2911	0.400	ng	0.00
35) Perylene-d12	23.546	264	2391	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	605	0.170	ng	0.00
5) Phenol-d6	6.894	99	418	0.095	ng	0.00
8) Nitrobenzene-d5	8.875	82	1156	0.286	ng	0.00
11) 2-Methylnaphthalene-d10	12.096	152	1611	0.291	ng	-0.02
14) 2,4,6-Tribromophenol	15.858	330	371	0.358	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	4087	0.307	ng	-0.01
27) Fluoranthene-d10	19.136	212	4934	0.430	ng	0.00
31) Terphenyl-d14	19.736	244	3540	0.508	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.232	88	6134	3.624	ng	# 90
34) Bis(2-ethylhexyl)phtha...	21.205	149	1193	0.166	ng	# 97

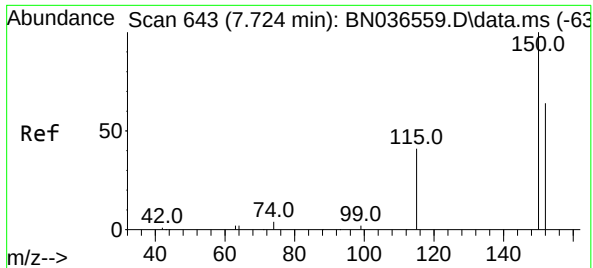
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036660.D
Acq On : 17 Mar 2025 15:31
Operator : RC/JU
Sample : Q1582-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT180D1-20250313

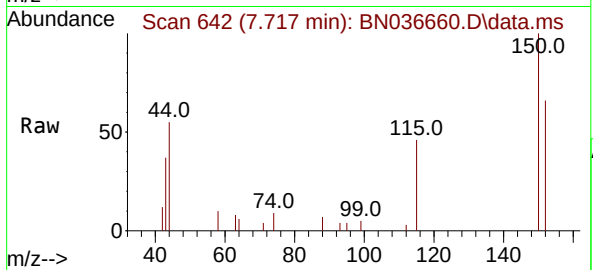
Quant Time: Mar 17 16:25:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



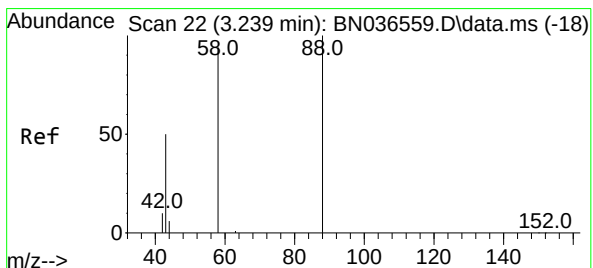
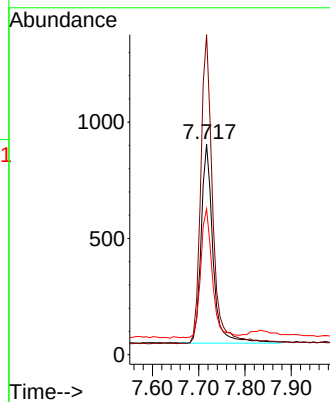
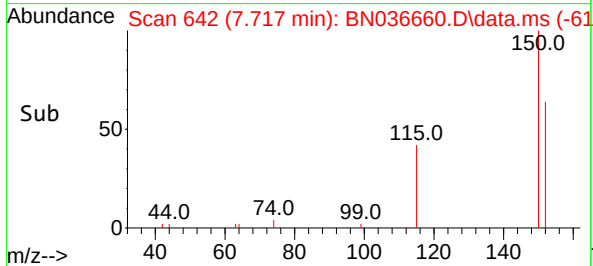


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

Instrument :
BNA_N
ClientSampleId :
TT180D1-20250313

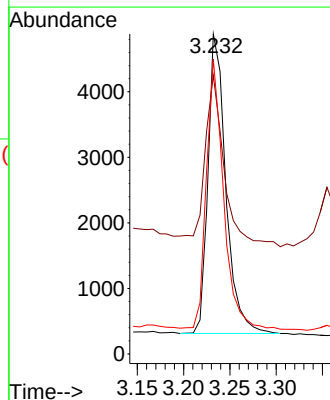
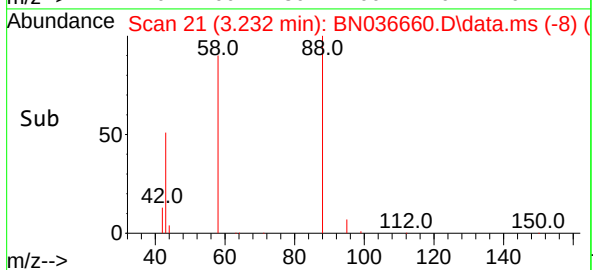
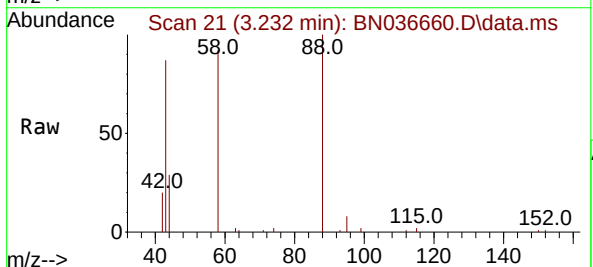


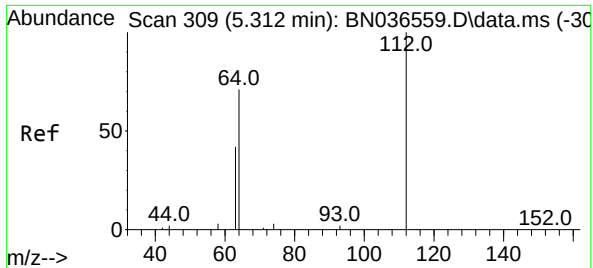
Tgt Ion:152 Resp: 1526
Ion Ratio Lower Upper
152 100
150 152.0 123.7 185.5
115 69.3 54.3 81.5



#2
1,4-Dioxane
Concen: 3.624 ng
RT: 3.232 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

Tgt Ion: 88 Resp: 6134
Ion Ratio Lower Upper
88 100
43 62.8 37.8 56.8#
58 86.6 67.4 101.2

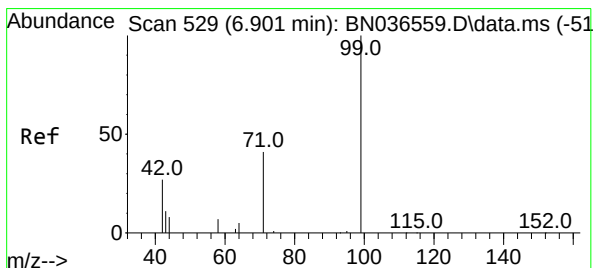
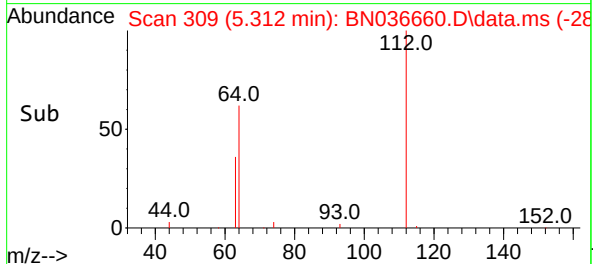
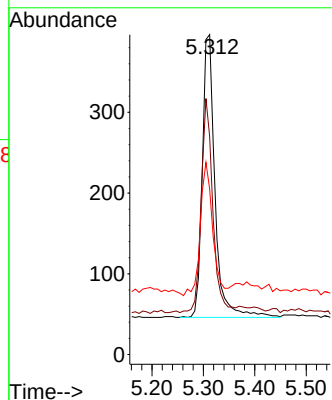
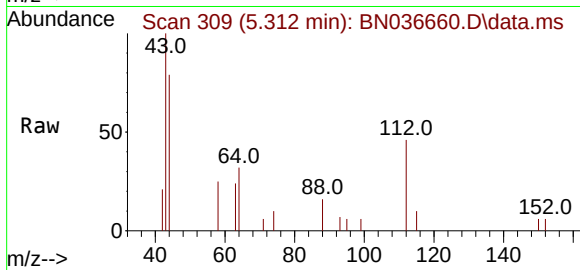




#4
2-Fluorophenol
Concen: 0.170 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

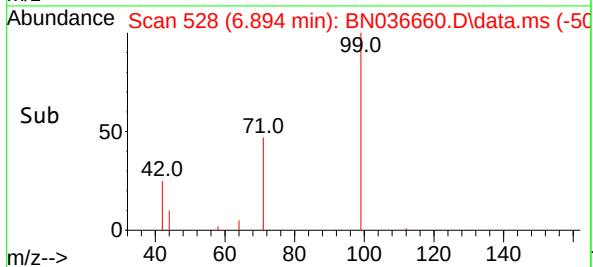
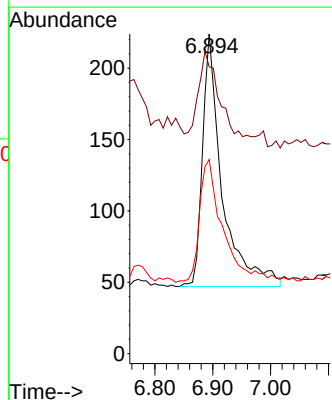
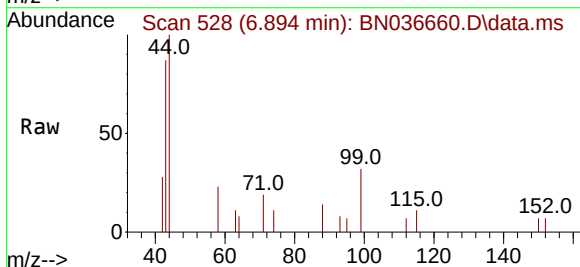
Instrument :
BNA_N
ClientSampleId :
TT180D1-20250313

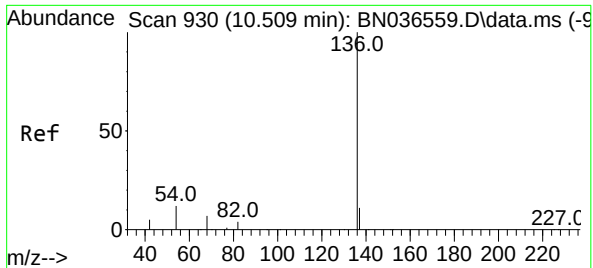
Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.8	53.1	79.7
63	45.6	31.8	47.8



#5
Phenol-d6
Concen: 0.095 ng
RT: 6.894 min Scan# 528
Delta R.T. -0.007 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

Tgt Ion	Ratio	Lower	Upper
99	100		
42	33.0	26.5	39.7
71	58.9	34.1	51.1

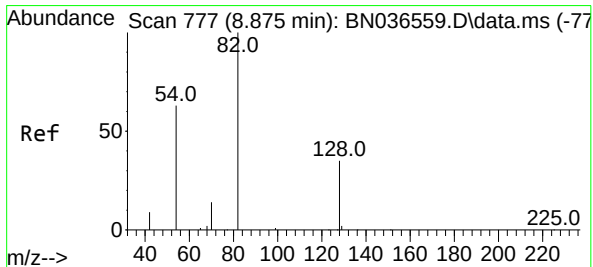
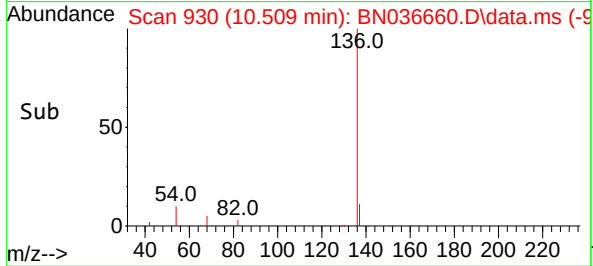
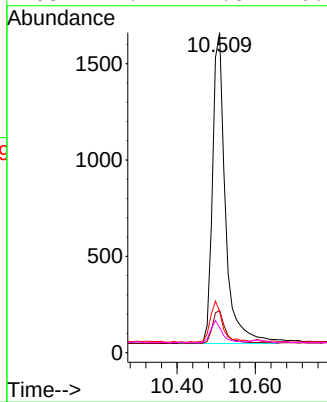
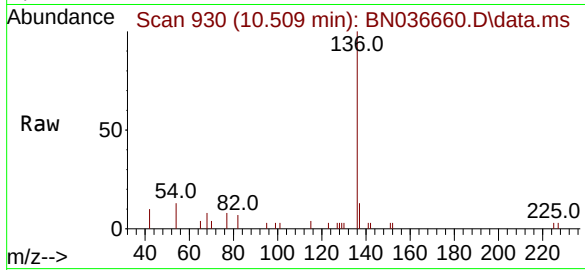




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

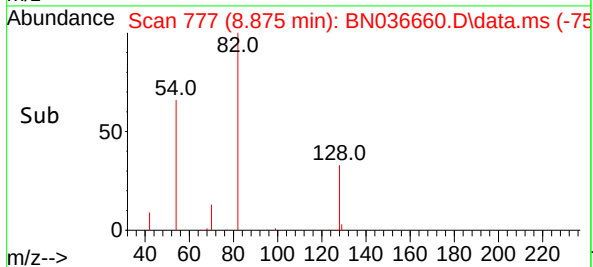
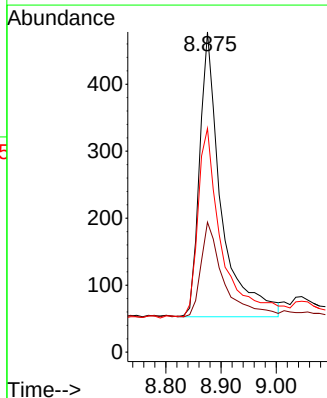
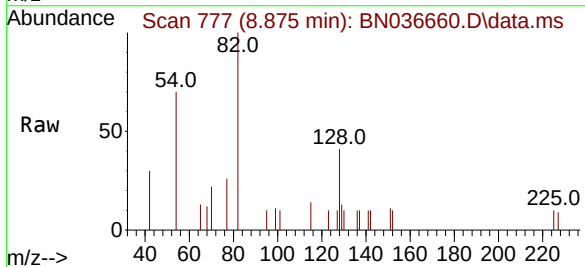
Instrument :
BNA_N
ClientSampleId :
TT180D1-20250313

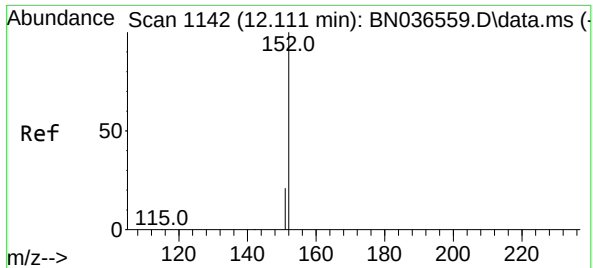
Tgt Ion:	136	Resp:	3719
Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.3	15.5
54	12.9	11.5	17.3
68	7.9	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.286 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

Tgt Ion:	82	Resp:	1156
Ion	Ratio	Lower	Upper
82	100		
128	40.6	30.6	45.8
54	69.9	52.2	78.4

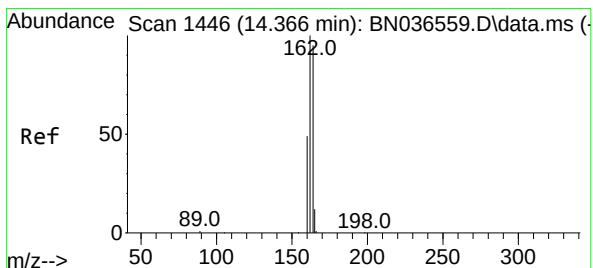
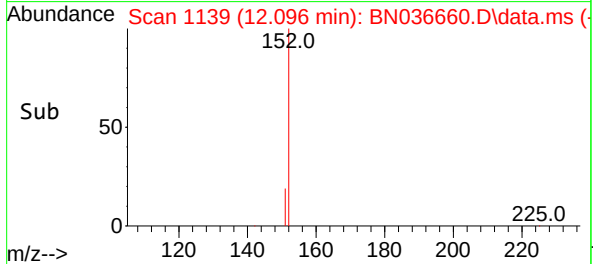
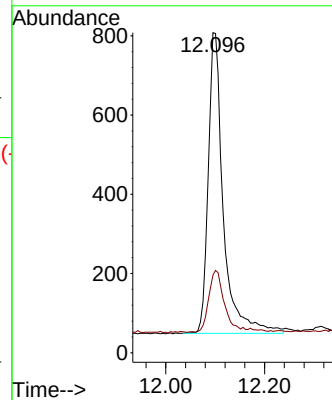
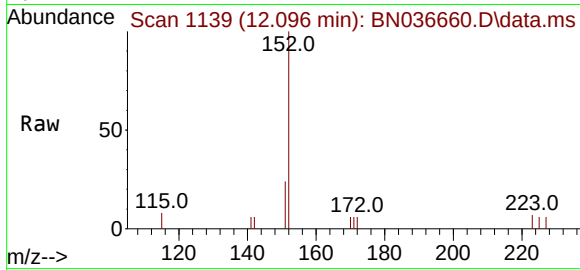




#11
2-Methylnaphthalene-d10
Concen: 0.291 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

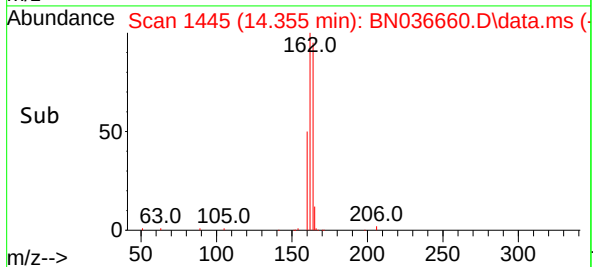
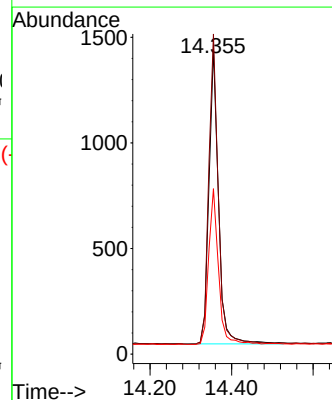
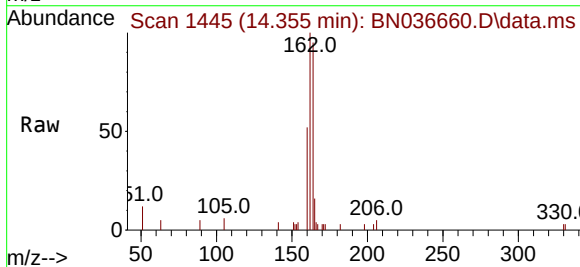
Instrument :
BNA_N
ClientSampleId :
TT180D1-20250313

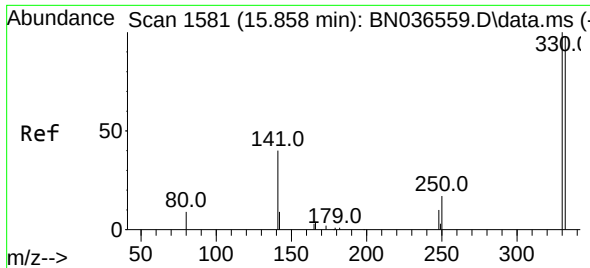
Tgt Ion:152 Resp: 1611
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

Tgt Ion:164 Resp: 2286
Ion Ratio Lower Upper
164 100
162 105.1 84.2 126.2
160 54.3 42.2 63.2

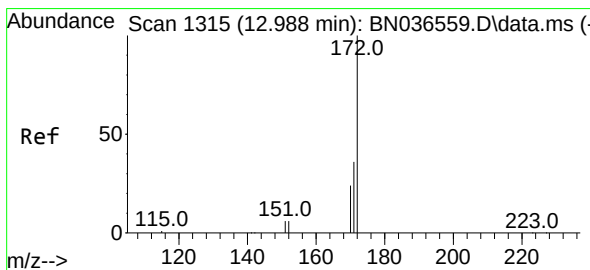
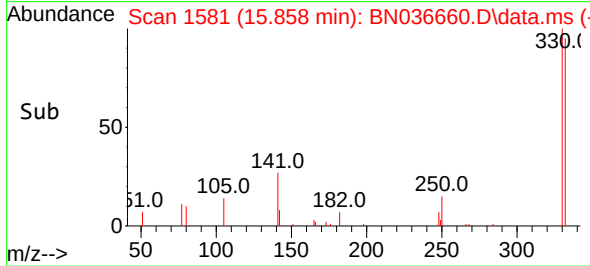
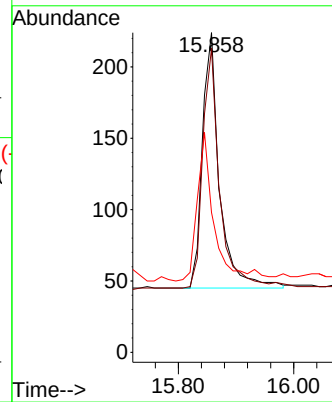
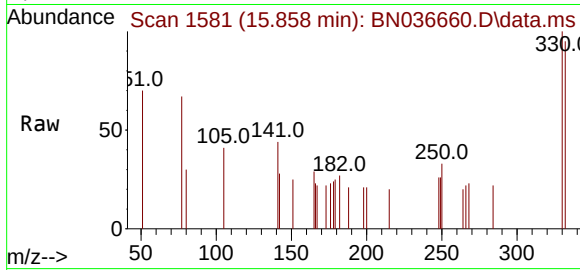




#14
2,4,6-Tribromophenol
Concen: 0.358 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

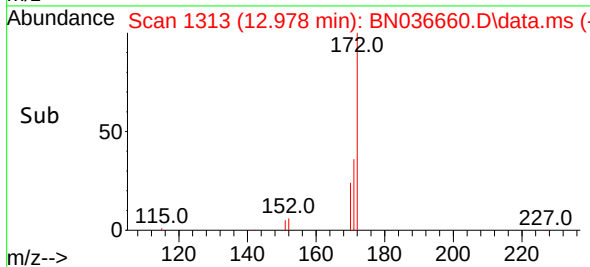
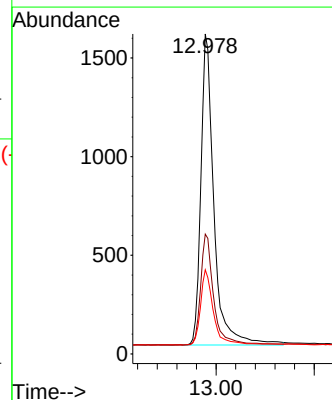
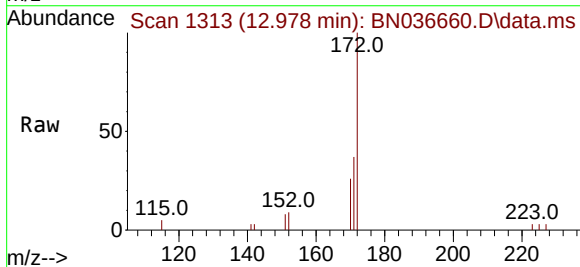
Instrument :
BNA_N
ClientSampleId :
TT180D1-20250313

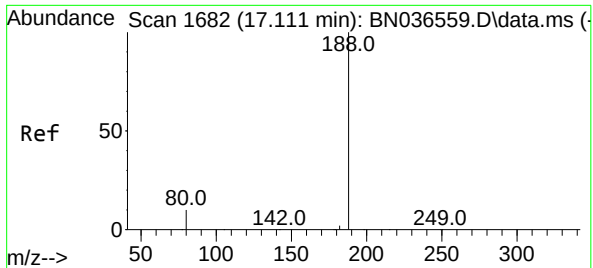
Tgt Ion	330	Ratio	100	Lower	Upper
330	100				
332	93.8		75.2	112.8	
141	57.1		43.4	65.2	



#15
2-Fluorobiphenyl
Concen: 0.307 ng
RT: 12.978 min Scan# 1313
Delta R.T. -0.010 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

Tgt Ion	172	Ratio	100	Lower	Upper
172	100				
171	37.4		29.5	44.3	
170	26.3		20.2	30.4	

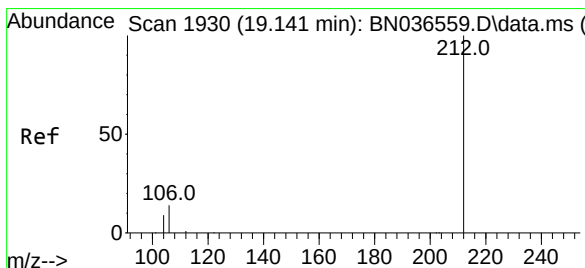
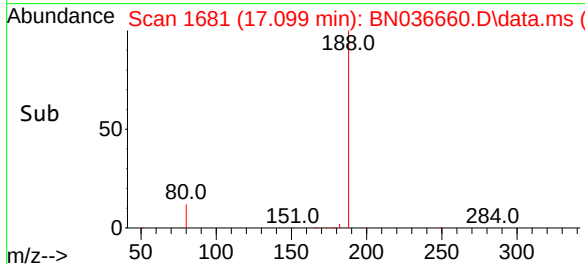
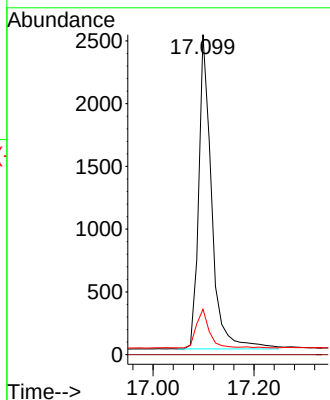
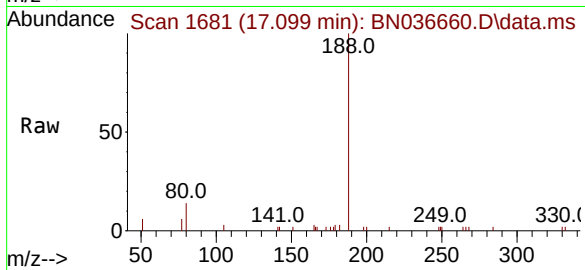




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

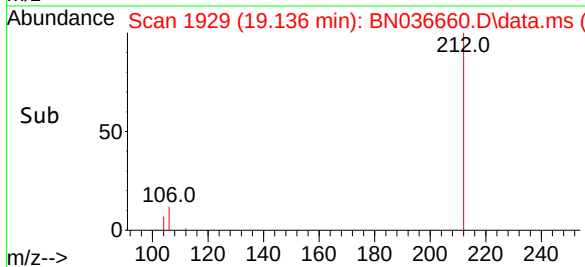
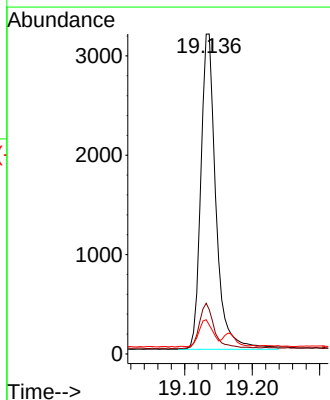
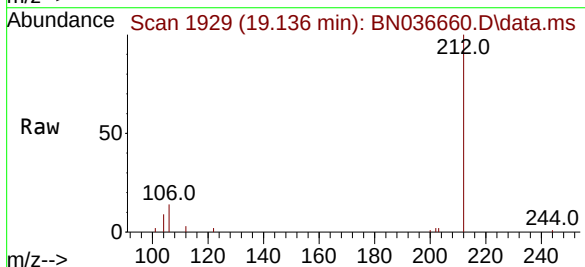
Instrument :
BNA_N
ClientSampleId :
TT180D1-20250313

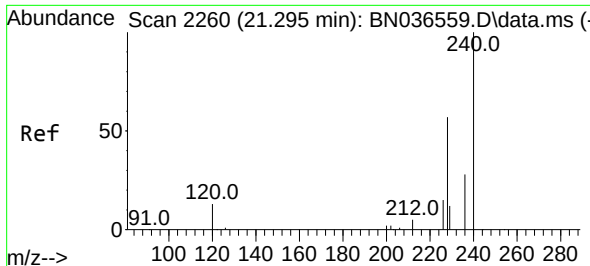
Tgt Ion:188 Resp: 4473
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 14.2 8.8 13.2#



#27
Fluoranthene-d10
Concen: 0.430 ng
RT: 19.136 min Scan# 1929
Delta R.T. -0.005 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

Tgt Ion:212 Resp: 4934
Ion Ratio Lower Upper
212 100
106 14.2 11.8 17.6
104 8.1 7.3 10.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036660.D

Acq: 17 Mar 2025 15:31

Instrument :

BNA_N

ClientSampleId :

TT180D1-20250313

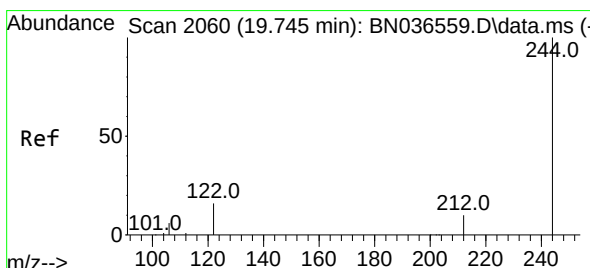
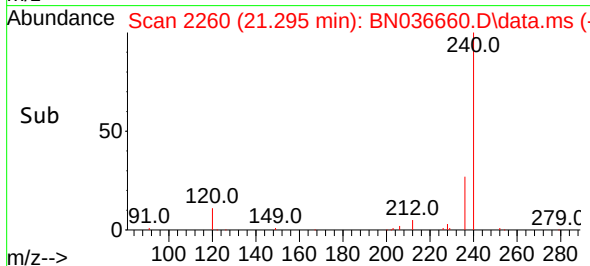
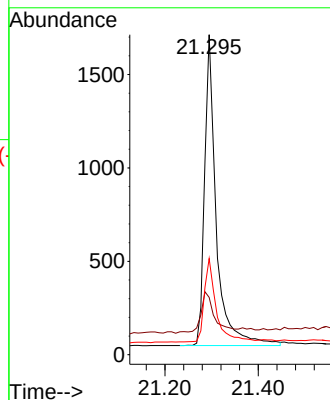
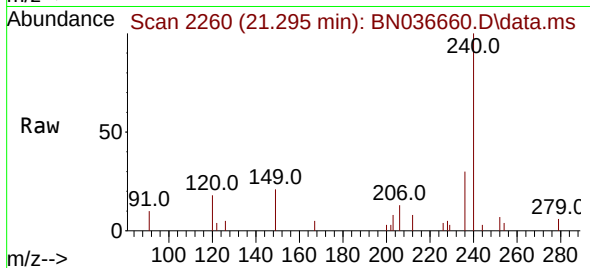
Tgt Ion:240 Resp: 2911

Ion Ratio Lower Upper

240 100

120 17.9 14.6 22.0

236 30.1 24.1 36.1



#31

Terphenyl-d14

Concen: 0.508 ng

RT: 19.736 min Scan# 2058

Delta R.T. -0.009 min

Lab File: BN036660.D

Acq: 17 Mar 2025 15:31

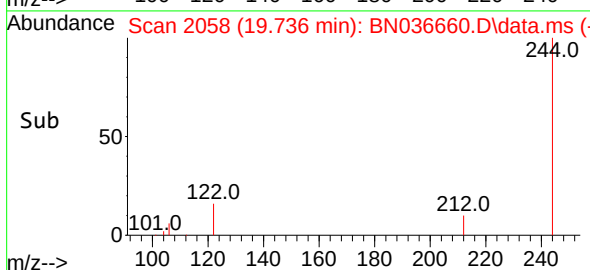
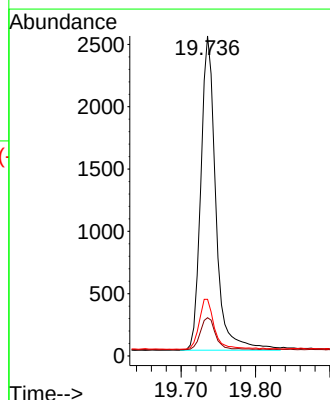
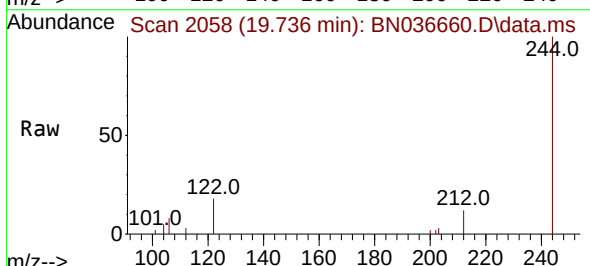
Tgt Ion:244 Resp: 3540

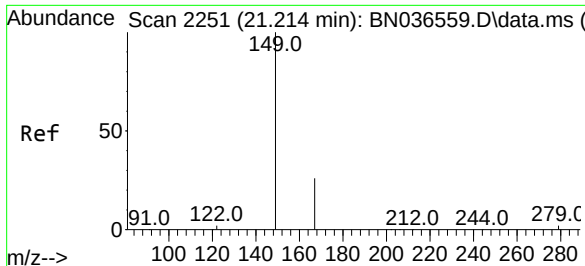
Ion Ratio Lower Upper

244 100

212 12.0 9.6 14.4

122 17.7 13.9 20.9

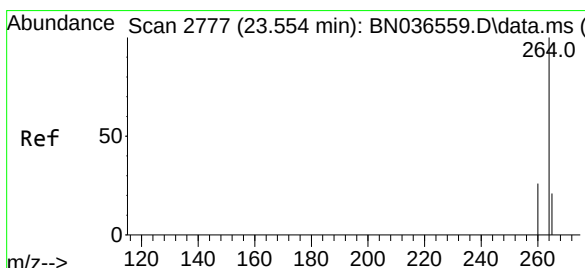
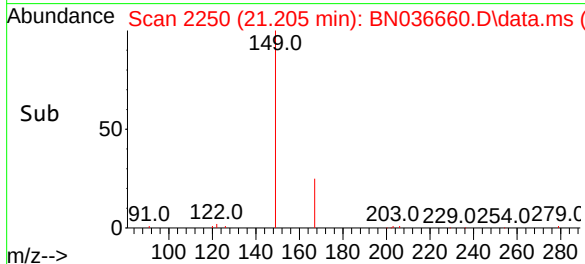
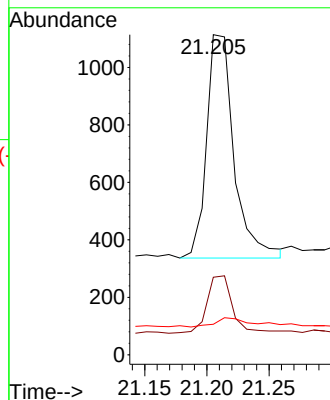
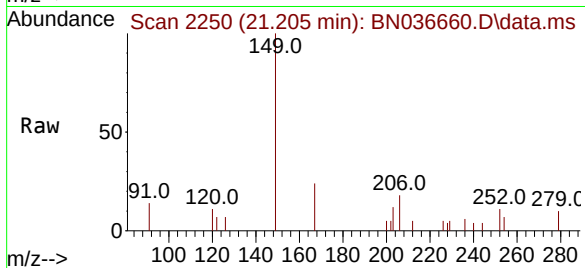




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.166 ng
 RT: 21.205 min Scan# 21193
 Delta R.T. -0.009 min
 Lab File: BN036660.D
 Acq: 17 Mar 2025 15:31

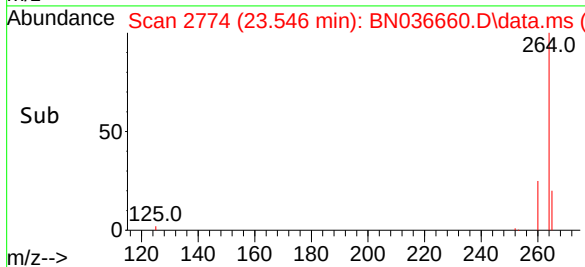
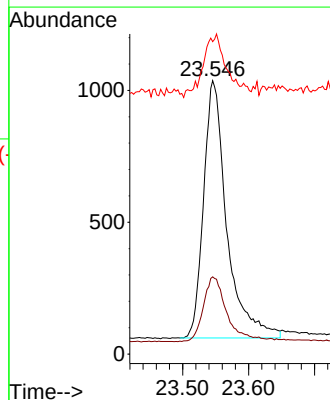
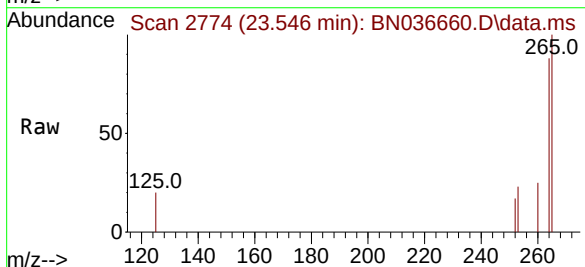
Instrument :
 BNA_N
 ClientSampleId :
 TT180D1-20250313

Tgt Ion:149 Resp: 1193
 Ion Ratio Lower Upper
 149 100
 167 24.6 20.7 31.1
 279 5.9 3.6 5.4#



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.546 min Scan# 2774
 Delta R.T. -0.009 min
 Lab File: BN036660.D
 Acq: 17 Mar 2025 15:31

Tgt Ion:264 Resp: 2391
 Ion Ratio Lower Upper
 264 100
 260 28.3 22.6 33.8
 265 114.3 88.1 132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	TT180D2-20250313	SDG No.:	Q1582
Lab Sample ID:	Q1582-03	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
BN036661.D	1	03/17/25 08:48	03/17/25 16:07	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.20	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	0.44		30 - 150		110%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		73%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		53 - 106		68%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		127%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1480	7.717				
1146-65-2	Naphthalene-d8	3510	10.509				
15067-26-2	Acenaphthene-d10	2180	14.356				
1517-22-2	Phenanthrene-d10	4400	17.099				
1719-03-5	Chrysene-d12	2930	21.295				
1520-96-3	Perylene-d12	2430	23.549				

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\BN031725\
Data File : BN036661.D
Acq On : 17 Mar 2025 16:07
Operator : RC/JU
Sample : Q1582-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313

Quant Time: Mar 17 16:55:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

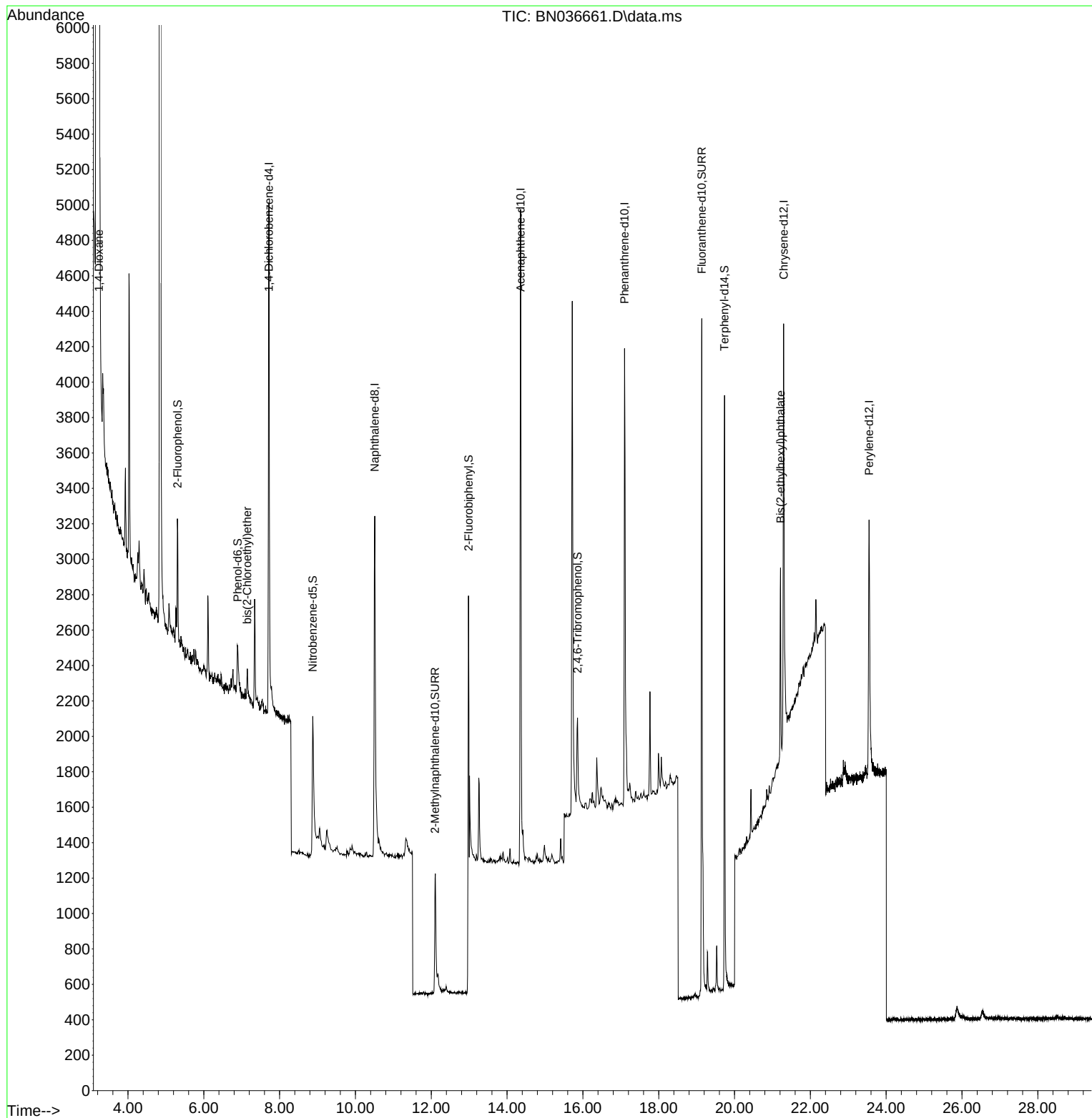
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1480	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	3511	0.400	ng	0.00
13) Acenaphthene-d10	14.356	164	2177	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	4400	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	2930	0.400	ng	0.00
35) Perylene-d12	23.549	264	2432	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	517	0.150	ng	0.00
5) Phenol-d6	6.894	99	334	0.078	ng	0.00
8) Nitrobenzene-d5	8.875	82	1113	0.291	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	1448	0.277	ng	-0.01
14) 2,4,6-Tribromophenol	15.858	330	381	0.386	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	3451	0.272	ng	0.00
27) Fluoranthene-d10	19.136	212	4972	0.441	ng	0.00
31) Terphenyl-d14	19.736	244	3579	0.510	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.232	88	8538	5.200	ng	Qvalue 94
6) bis(2-Chloroethyl)ether	7.147	93	137	0.031	ng	# 81
34) Bis(2-ethylhexyl)phtha...	21.214	149	1231	0.170	ng	97

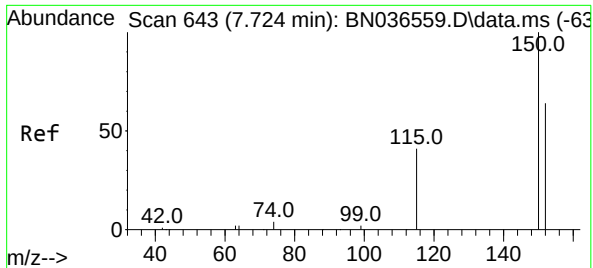
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036661.D
Acq On : 17 Mar 2025 16:07
Operator : RC/JU
Sample : Q1582-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313

Quant Time: Mar 17 16:55:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

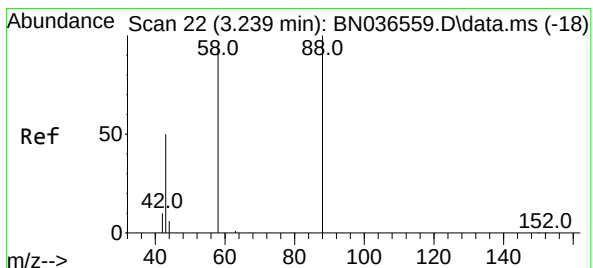
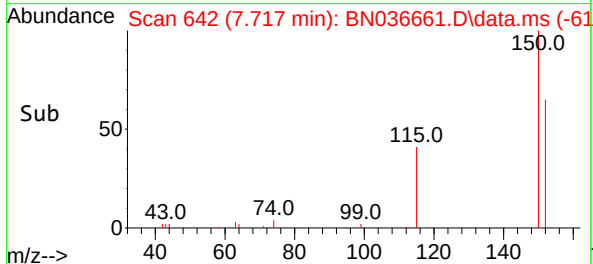
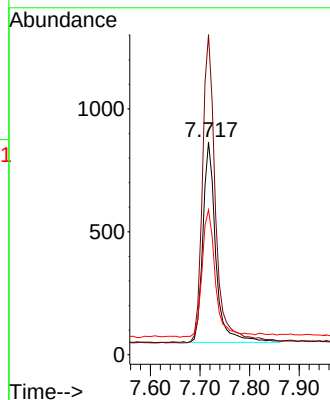
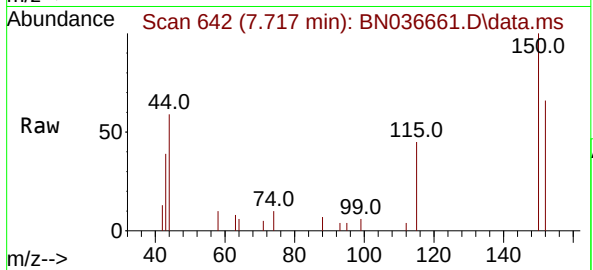




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

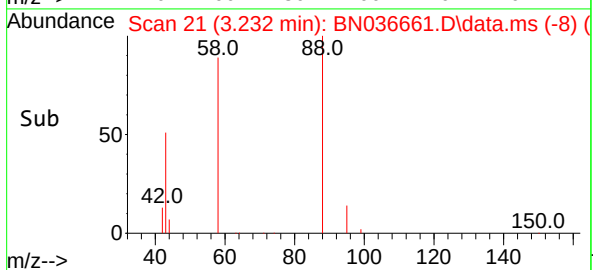
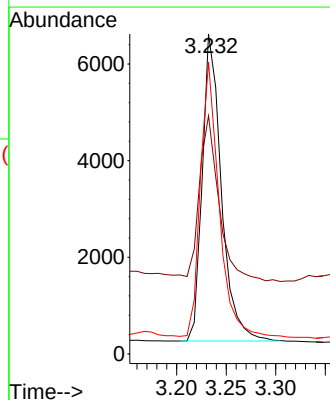
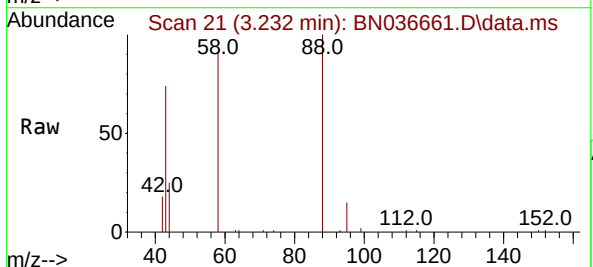
Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313

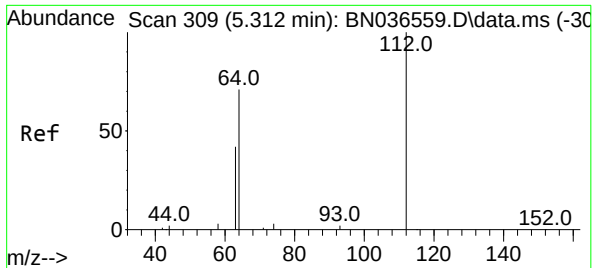
Tgt Ion:152 Resp: 1480
Ion Ratio Lower Upper
152 100
150 150.5 123.7 185.5
115 68.1 54.3 81.5



#2
1,4-Dioxane
Concen: 5.200 ng
RT: 3.232 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

Tgt Ion: 88 Resp: 8538
Ion Ratio Lower Upper
88 100
43 56.2 37.8 56.8
58 86.3 67.4 101.2

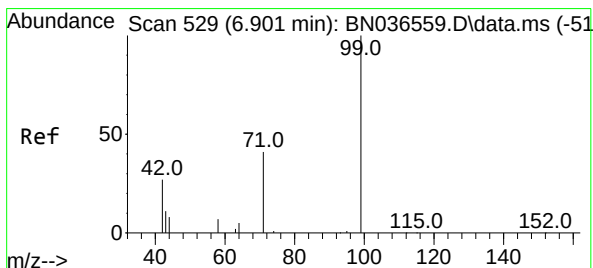
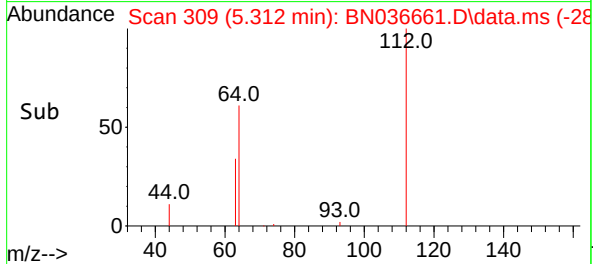
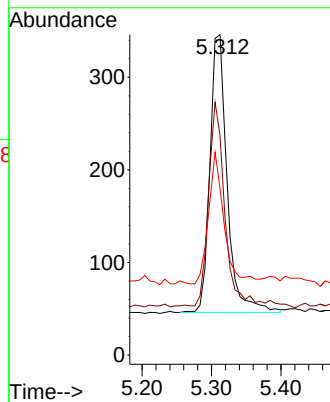
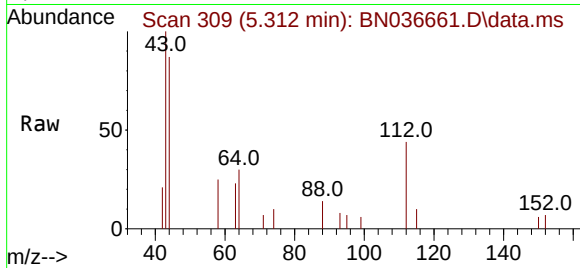




#4
2-Fluorophenol
Concen: 0.150 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

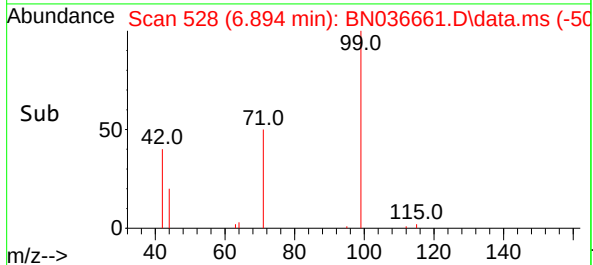
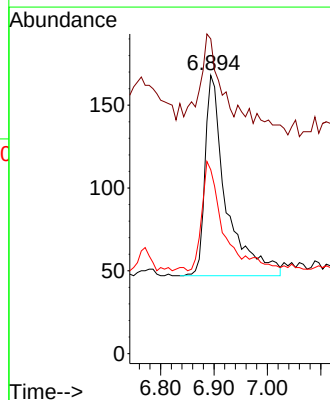
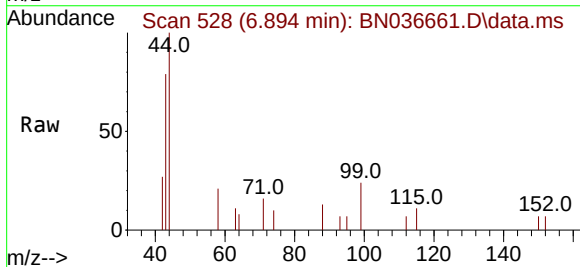
Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313

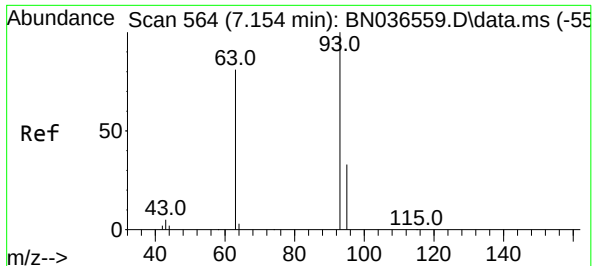
Tgt Ion:112 Resp: 517
Ion Ratio Lower Upper
112 100
64 68.5 53.1 79.7
63 42.7 31.8 47.8



#5
Phenol-d6
Concen: 0.078 ng
RT: 6.894 min Scan# 528
Delta R.T. -0.007 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

Tgt Ion: 99 Resp: 334
Ion Ratio Lower Upper
99 100
42 33.5 26.5 39.7
71 55.4 34.1 51.1#

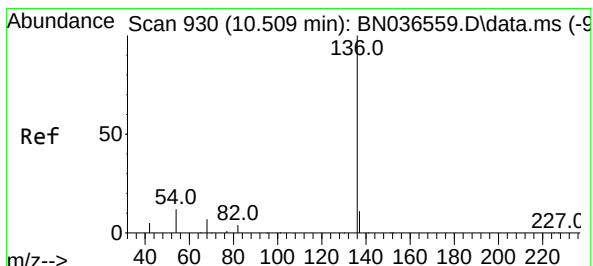
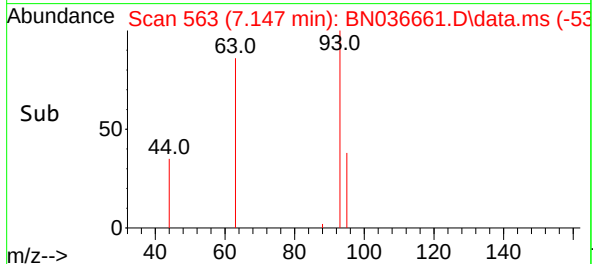
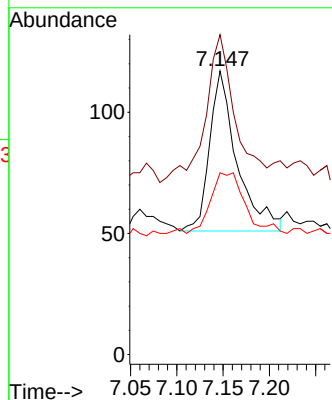
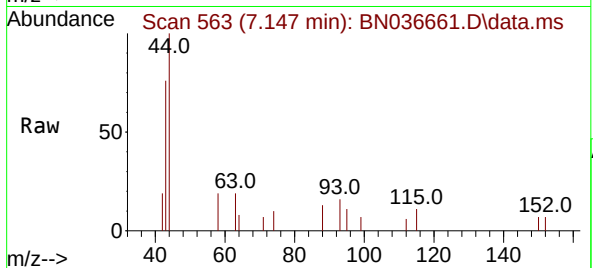




#6
bis(2-Chloroethyl)ether
Concen: 0.031 ng
RT: 7.147 min Scan# 50
Delta R.T. -0.007 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

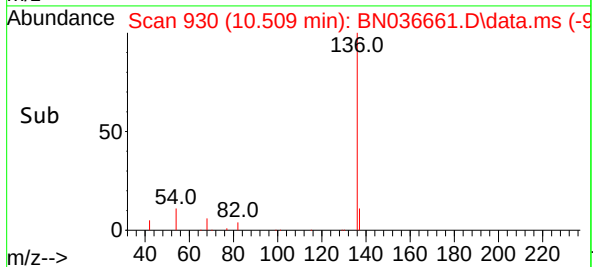
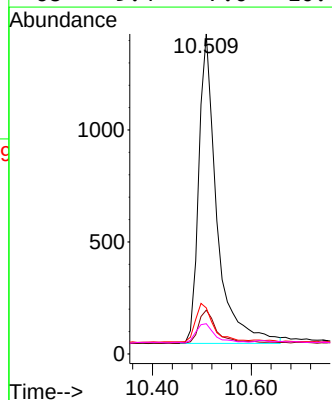
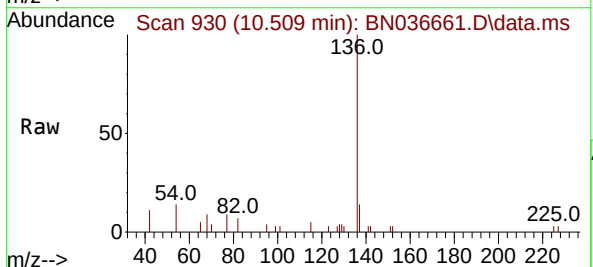
Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313

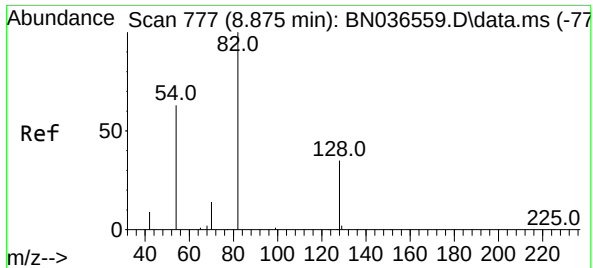
Tgt Ion: 93 Resp: 137
Ion Ratio Lower Upper
93 100
63 99.3 67.7 101.5
95 46.7 25.6 38.4#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

Tgt Ion:136 Resp: 3511
Ion Ratio Lower Upper
136 100
137 13.7 10.3 15.5
54 14.4 11.5 17.3
68 9.4 7.0 10.4

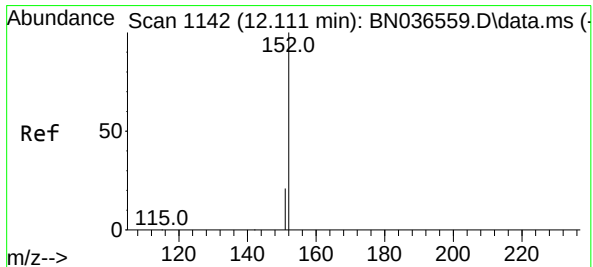
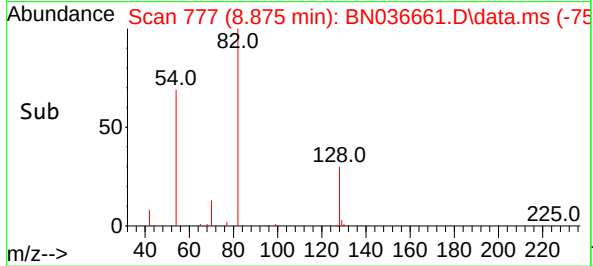
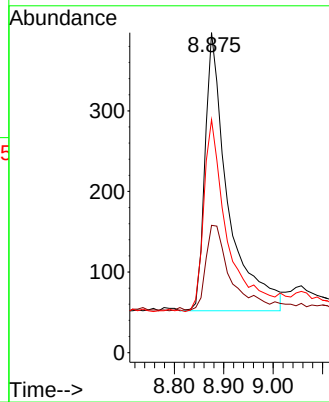
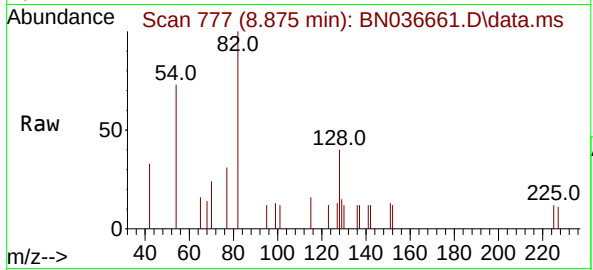




#8
Nitrobenzene-d5
Concen: 0.291 ng
RT: 8.875 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

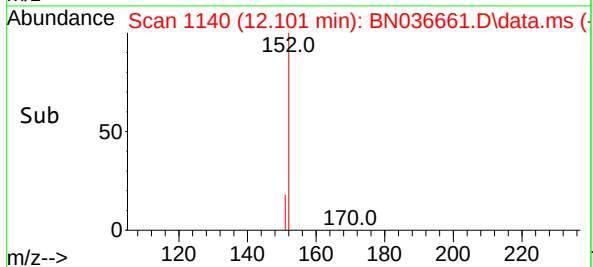
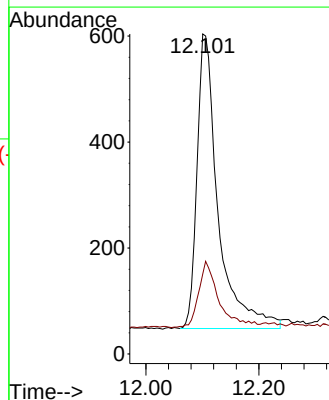
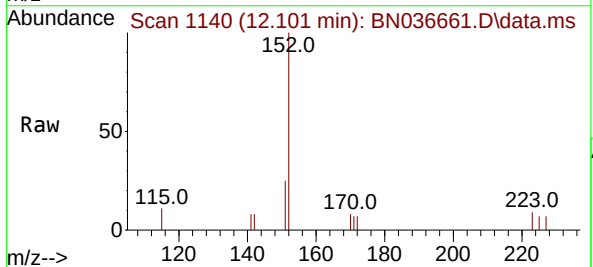
Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313

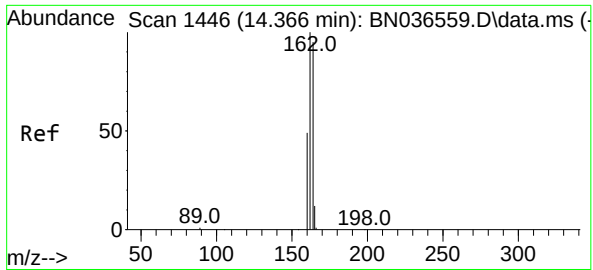
Tgt Ion: 82 Resp: 1113
Ion Ratio Lower Upper
82 100
128 39.8 30.6 45.8
54 72.8 52.2 78.4



#11
2-Methylnaphthalene-d10
Concen: 0.277 ng
RT: 12.101 min Scan# 1140
Delta R.T. -0.010 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

Tgt Ion: 152 Resp: 1448
Ion Ratio Lower Upper
152 100
151 21.6 17.0 25.6

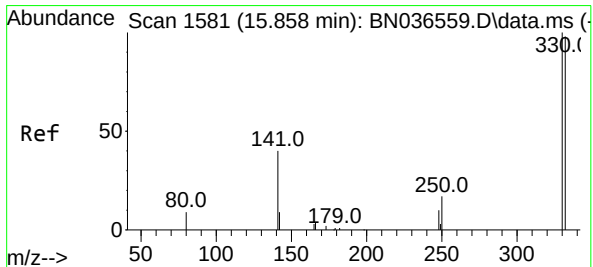
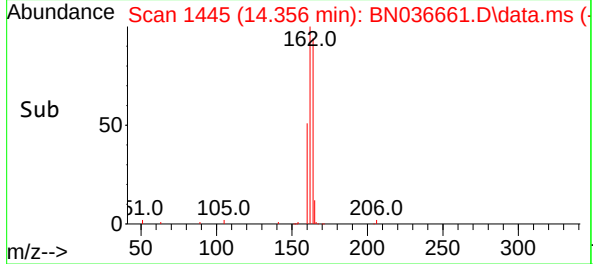
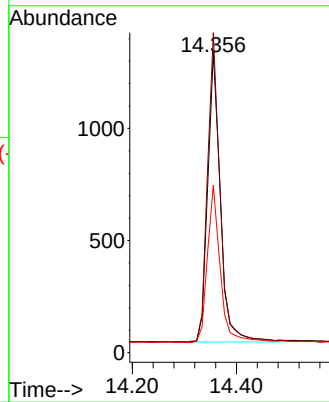
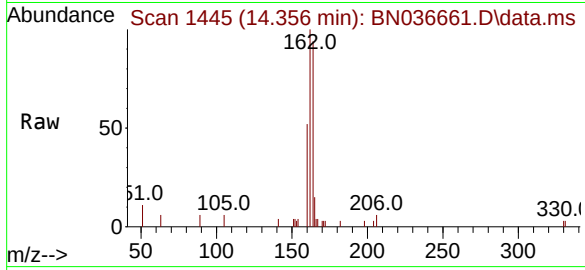




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

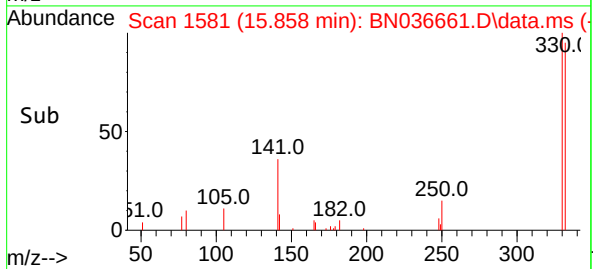
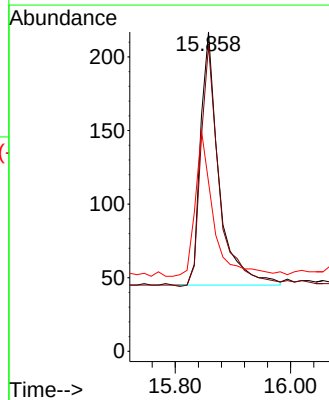
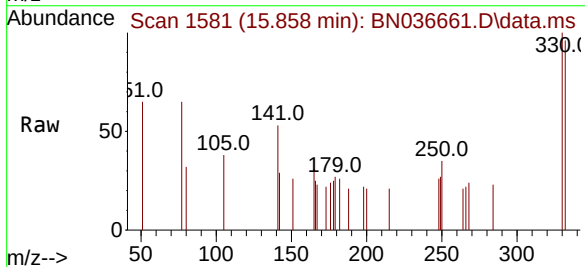
Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313

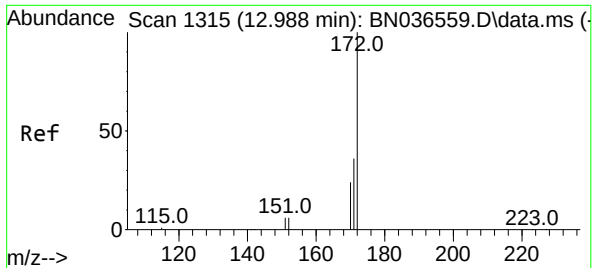
Tgt Ion:	164	Resp:	2177
Ion	Ratio	Lower	Upper
164	100		
162	106.5	84.2	126.2
160	55.7	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.386 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

Tgt Ion:	330	Resp:	381
Ion	Ratio	Lower	Upper
330	100		
332	97.1	75.2	112.8
141	56.7	43.4	65.2

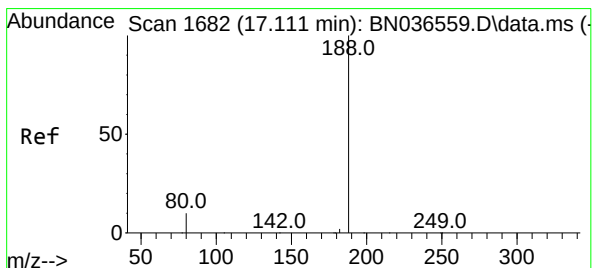
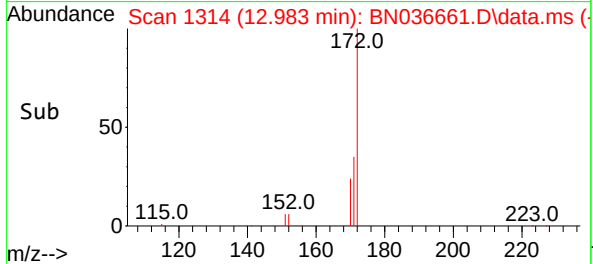
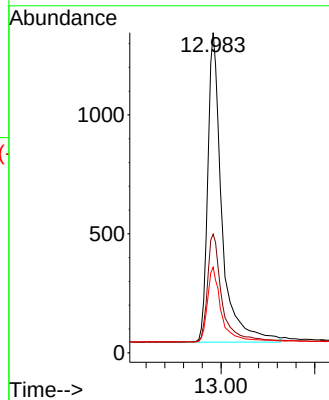
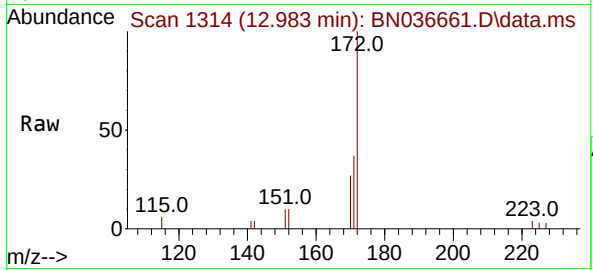




#15
2-Fluorobiphenyl
Concen: 0.272 ng
RT: 12.983 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

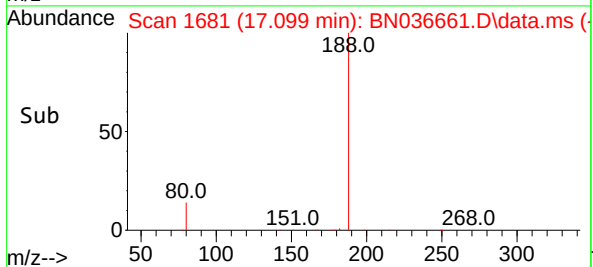
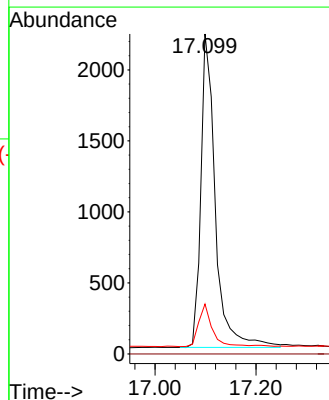
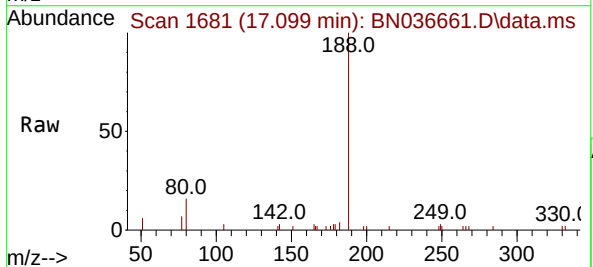
Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313

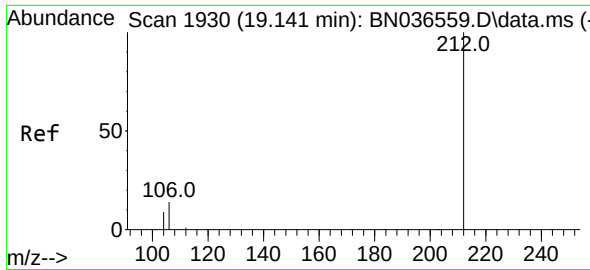
Tgt Ion:172 Resp: 3451
Ion Ratio Lower Upper
172 100
171 37.1 29.5 44.3
170 26.7 20.2 30.4



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

Tgt Ion:188 Resp: 4400
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 15.6 8.8 13.2#





#27

Fluoranthene-d10

Concen: 0.441 ng

RT: 19.136 min Scan# 19

Delta R.T. -0.005 min

Lab File: BN036661.D

Acq: 17 Mar 2025 16:07

Instrument :

BNA_N

ClientSampleId :

TT180D2-20250313

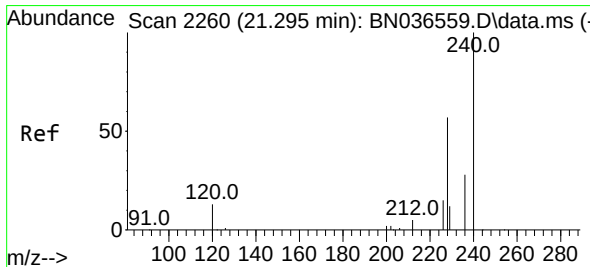
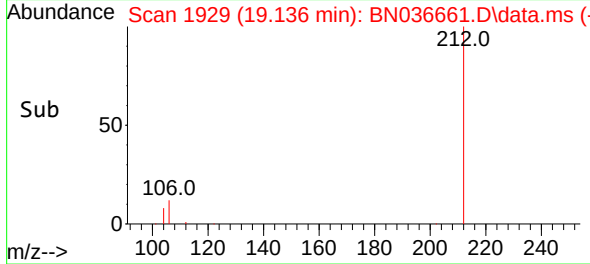
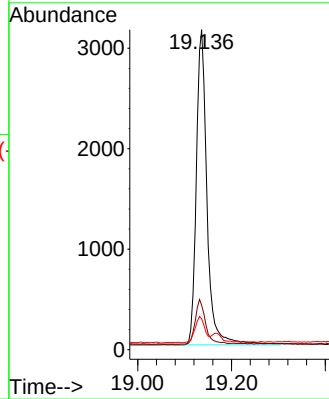
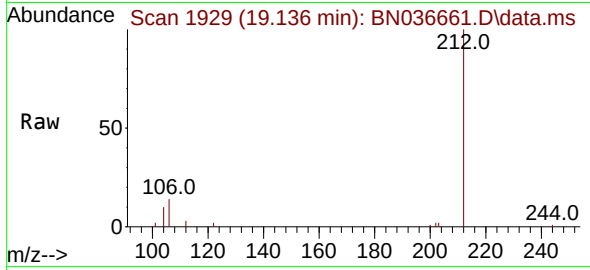
Tgt Ion:212 Resp: 4972

Ion Ratio Lower Upper

212 100

106 13.6 11.8 17.6

104 7.9 7.3 10.9



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 2260

Delta R.T. 0.000 min

Lab File: BN036661.D

Acq: 17 Mar 2025 16:07

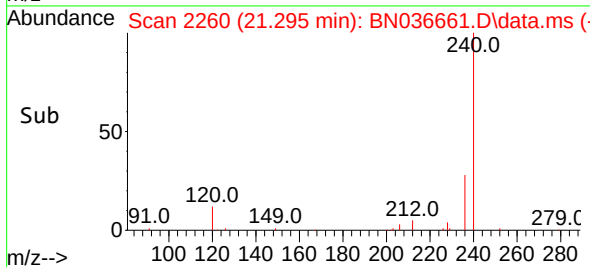
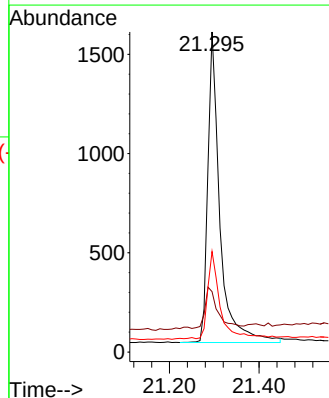
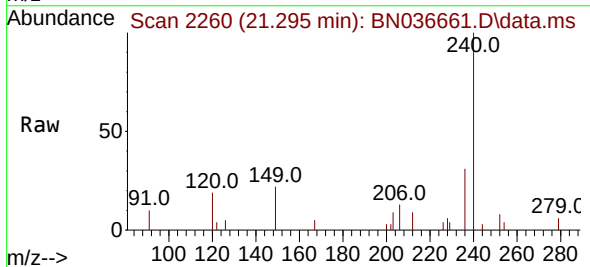
Tgt Ion:240 Resp: 2930

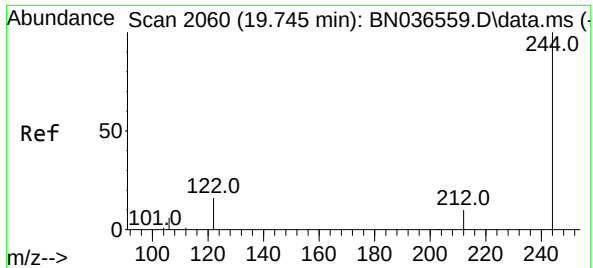
Ion Ratio Lower Upper

240 100

120 18.8 14.6 22.0

236 31.4 24.1 36.1

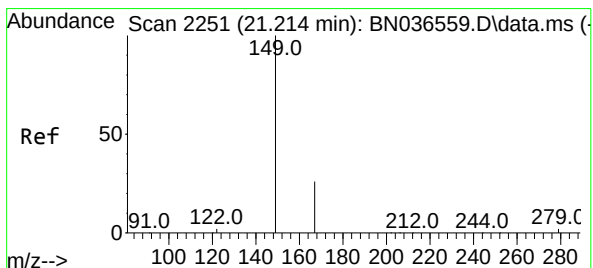
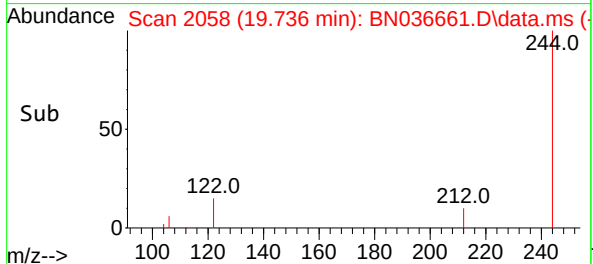
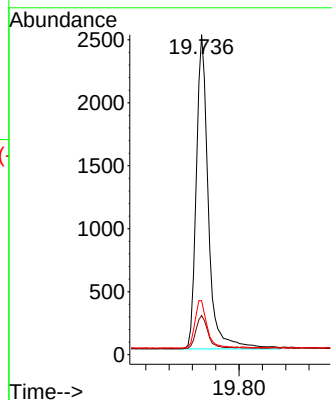
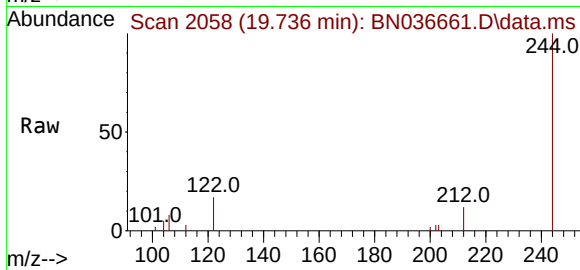




#31
Terphenyl-d14
Concen: 0.510 ng
RT: 19.736 min Scan# 2060
Delta R.T. -0.009 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

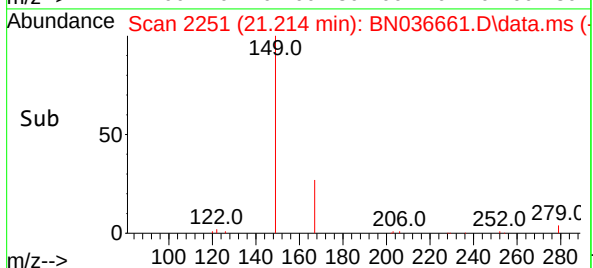
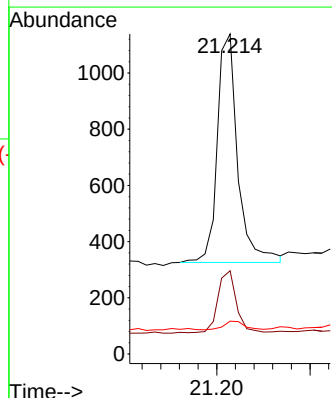
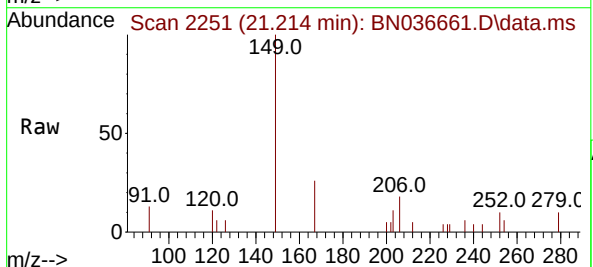
Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313

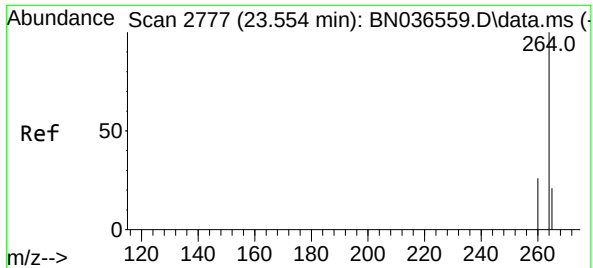
Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.2	9.6	14.4
122	16.9	13.9	20.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.170 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

Tgt Ion	Ratio	Lower	Upper
149	100		
167	24.3	20.7	31.1
279	3.9	3.6	5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.549 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036661.D

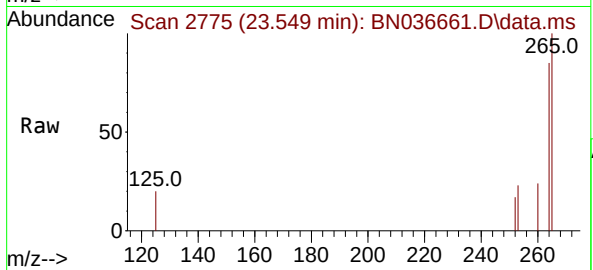
Acq: 17 Mar 2025 16:07

Instrument :

BNA_N

ClientSampleId :

TT180D2-20250313



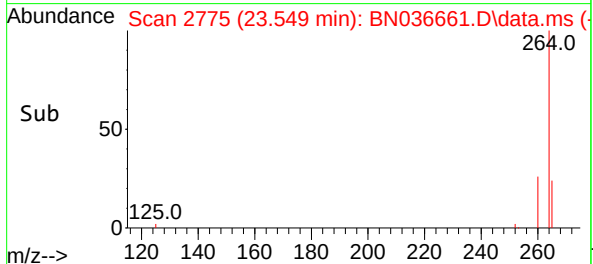
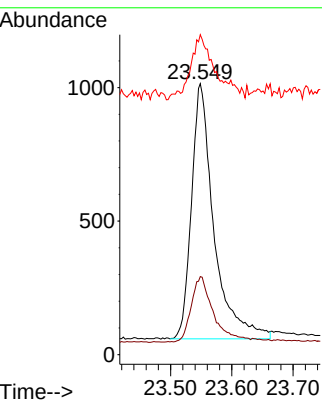
Tgt Ion:264 Resp: 2432

Ion	Ratio	Lower	Upper
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264	100		
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260	28.8	22.6	33.8
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265	118.0	88.1	132.1
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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	TT180D2-20250313DL	SDG No.:	Q1582
Lab Sample ID:	Q1582-03DL	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
BN036679.D	2	03/17/25 08:48	03/18/25 03:40	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.00	D	0.14	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.26		30 - 150		64%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		101%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.27		55 - 111		67%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.24		53 - 106		59%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		118%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1630	7.717				
1146-65-2	Naphthalene-d8	3810	10.509				
15067-26-2	Acenaphthene-d10	2400	14.355				
1517-22-2	Phenanthrene-d10	4730	17.099				
1719-03-5	Chrysene-d12	3080	21.295				
1520-96-3	Perylene-d12	2490	23.545				

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\BN031725\
 Data File : BN036679.D
 Acq On : 18 Mar 2025 03:40
 Operator : RC/JU
 Sample : Q1582-03DL 2X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT180D2-20250313DL

Quant Time: Mar 18 04:19:33 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

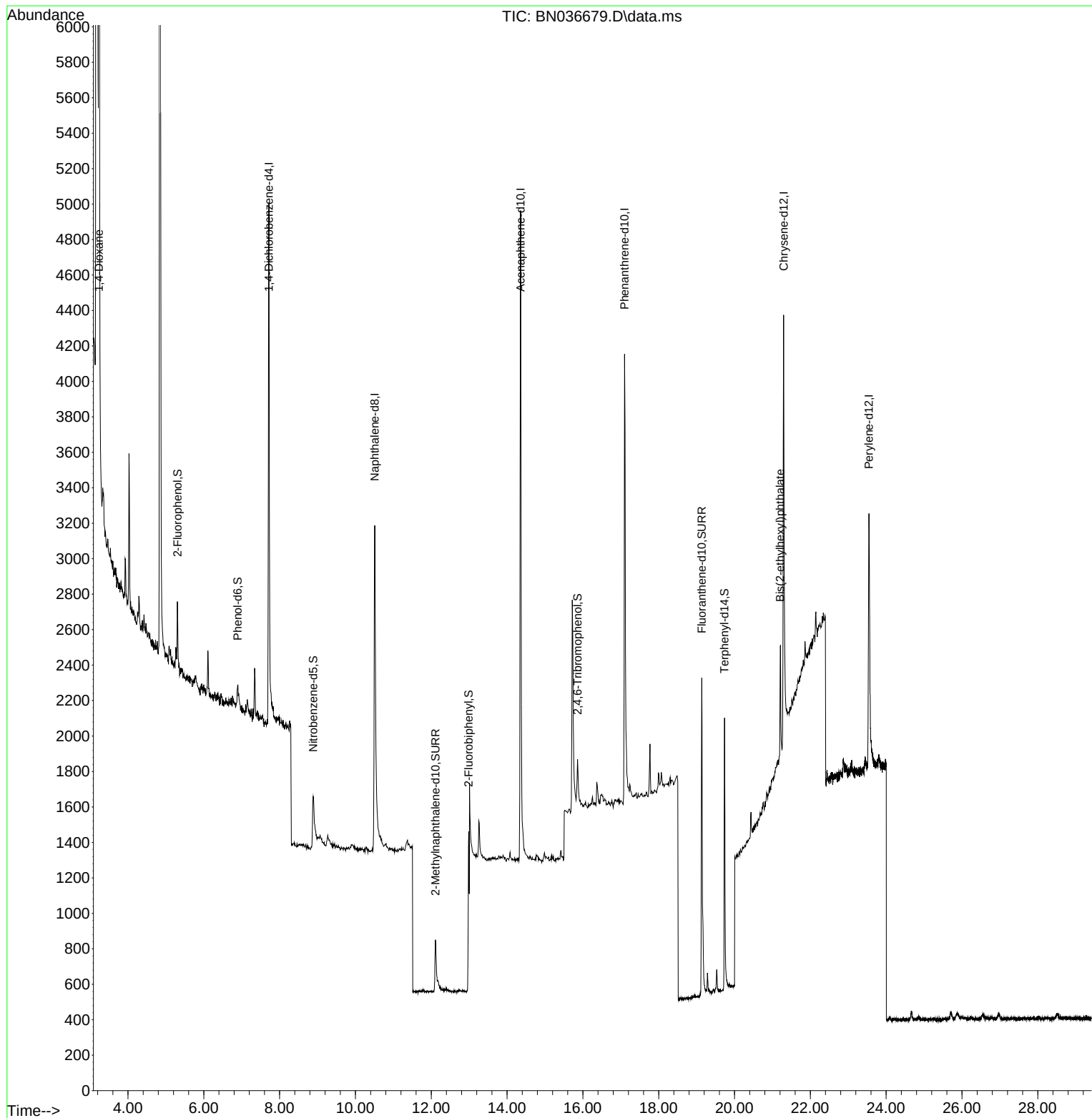
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1626	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	3810	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	2398	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	4730	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	3082	0.400	ng	0.00
35) Perylene-d12	23.545	264	2493	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	280	0.074	ng	0.00
5) Phenol-d6	6.894	99	195	0.042	ng	0.00
8) Nitrobenzene-d5	8.886	82	552	0.133	ng	0.01
11) 2-Methylnaphthalene-d10	12.111	152	730	0.129	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	193	0.177	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	1653	0.118	ng	0.00
27) Fluoranthene-d10	19.136	212	2465	0.203	ng	0.00
31) Terphenyl-d14	19.736	244	1748	0.237	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.232	88	4516	2.504	ng	95
34) Bis(2-ethylhexyl)phtha...	21.205	149	739	0.097	ng	# 96

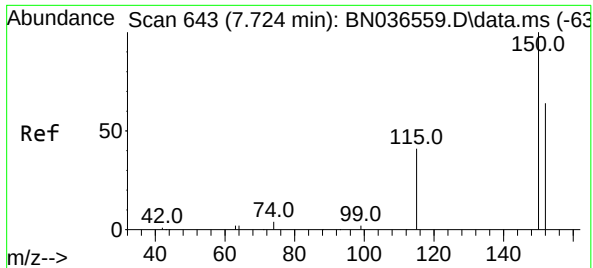
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036679.D
Acq On : 18 Mar 2025 03:40
Operator : RC/JU
Sample : Q1582-03DL 2X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313DL

Quant Time: Mar 18 04:19:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

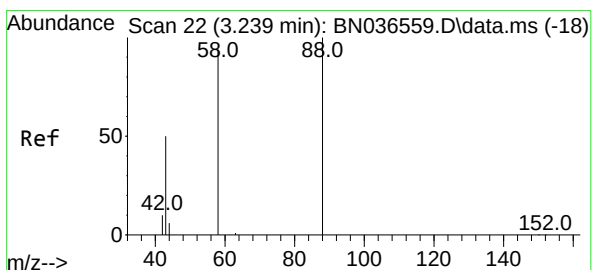
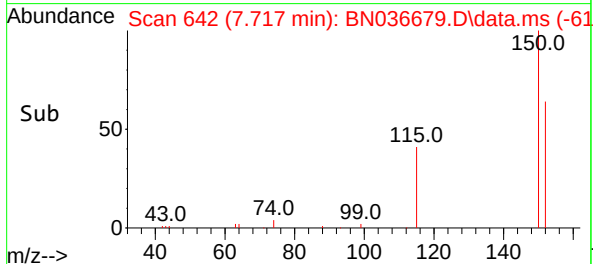
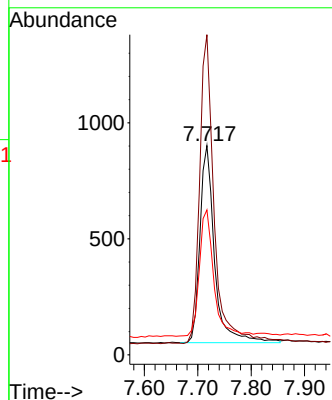
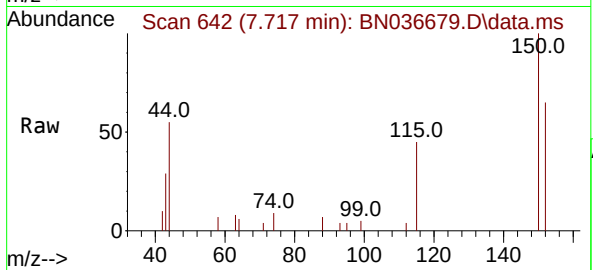




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

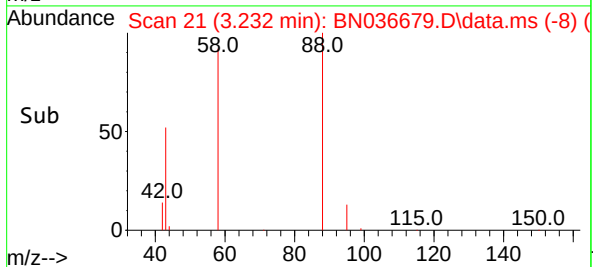
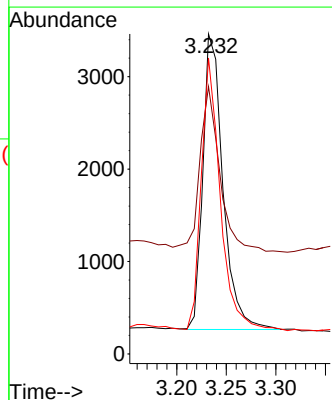
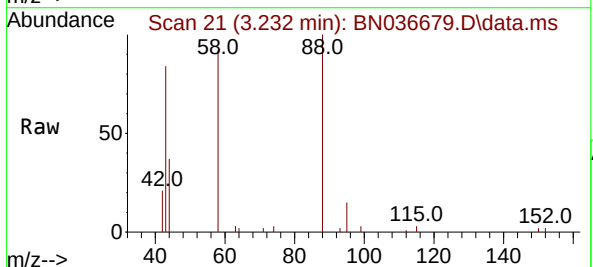
Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313DL

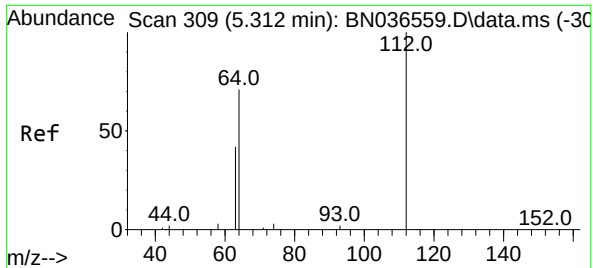
Tgt Ion:152 Resp: 1626
Ion Ratio Lower Upper
152 100
150 153.0 123.7 185.5
115 69.3 54.3 81.5



#2
1,4-Dioxane
Concen: 2.504 ng
RT: 3.232 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

Tgt Ion: 88 Resp: 4516
Ion Ratio Lower Upper
88 100
43 55.2 37.8 56.8
58 85.7 67.4 101.2

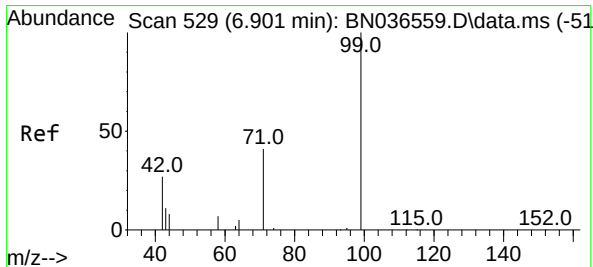
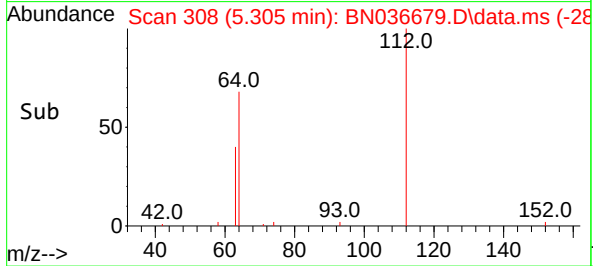
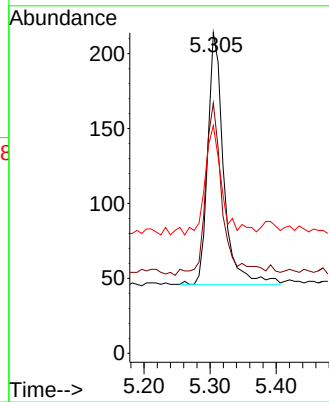
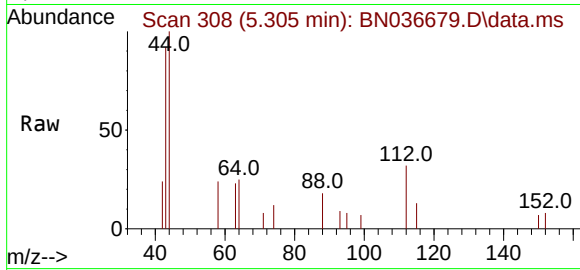




#4
2-Fluorophenol
Concen: 0.074 ng
RT: 5.305 min Scan# 309
Delta R.T. -0.007 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

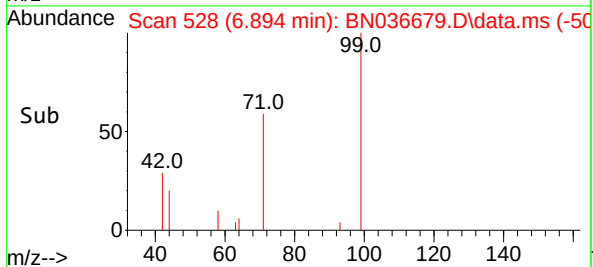
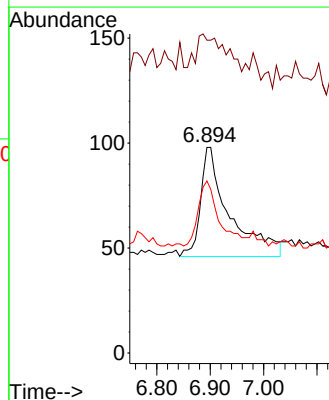
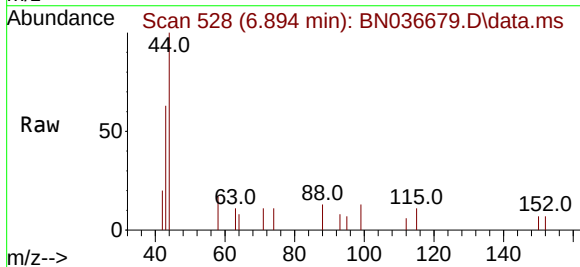
Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313DL

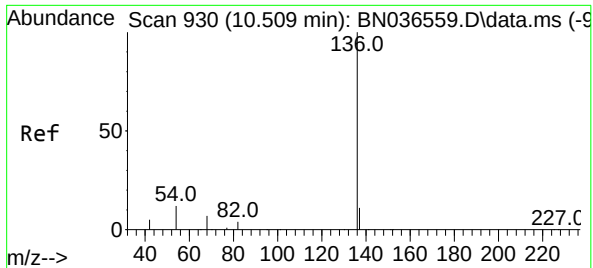
Tgt Ion	Ratio	Lower	Upper
112	100		
64	72.9	53.1	79.7
63	46.1	31.8	47.8



#5
Phenol-d6
Concen: 0.042 ng
RT: 6.894 min Scan# 528
Delta R.T. -0.007 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

Tgt Ion	Ratio	Lower	Upper
99	100		
42	33.3	26.5	39.7
71	44.1	34.1	51.1

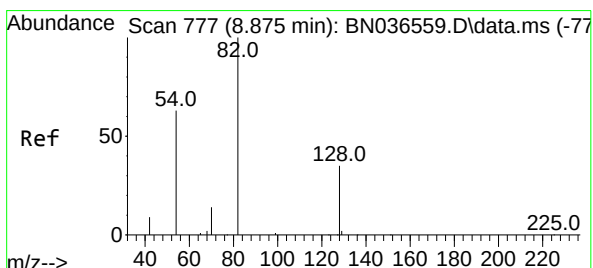
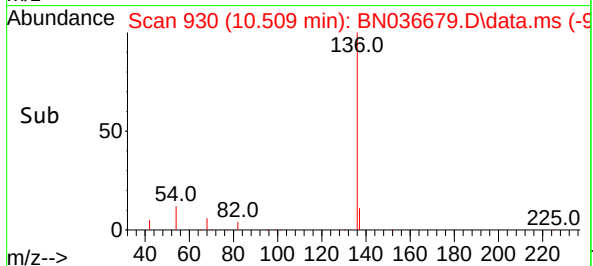
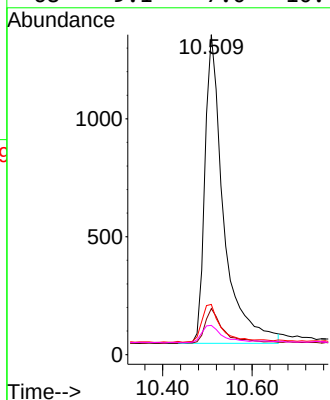
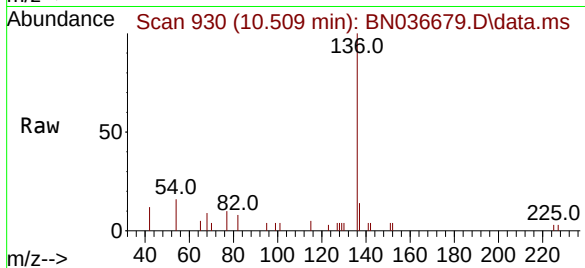




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

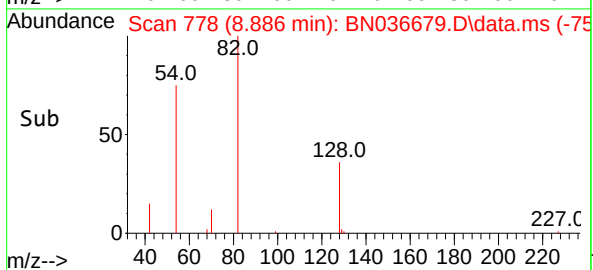
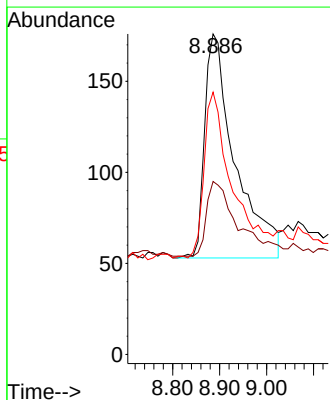
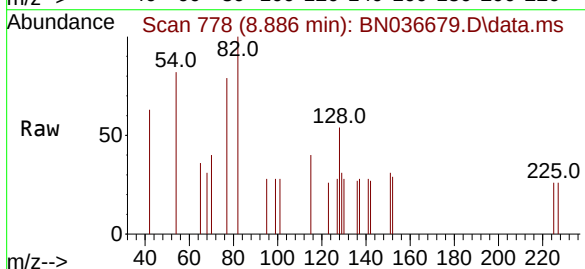
Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313DL

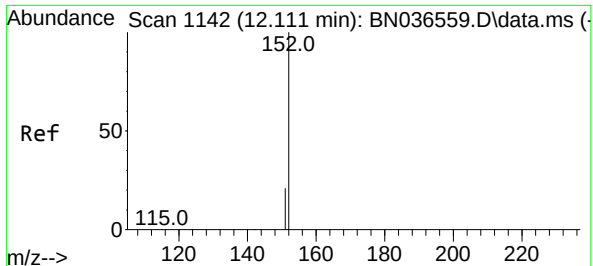
Tgt Ion:	136	Resp:	3810
Ion	Ratio	Lower	Upper
136	100		
137	14.4	10.3	15.5
54	15.7	11.5	17.3
68	9.1	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.133 ng
RT: 8.886 min Scan# 778
Delta R.T. 0.011 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

Tgt Ion:	82	Resp:	552
Ion	Ratio	Lower	Upper
82	100		
128	54.0	30.6	45.8#
54	81.8	52.2	78.4#

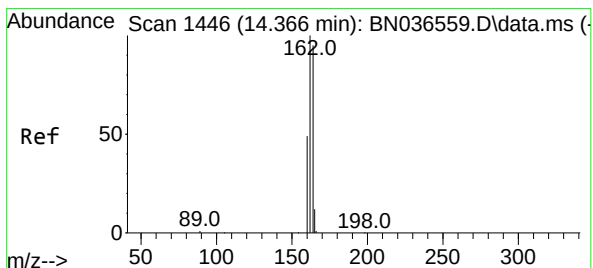
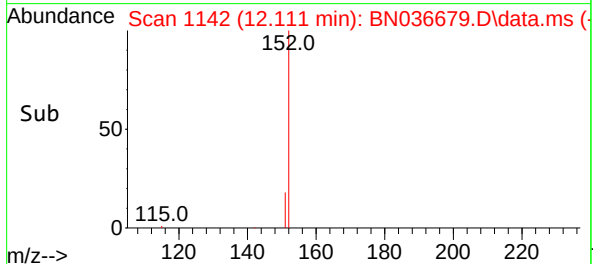
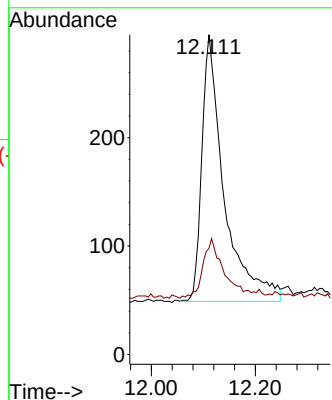
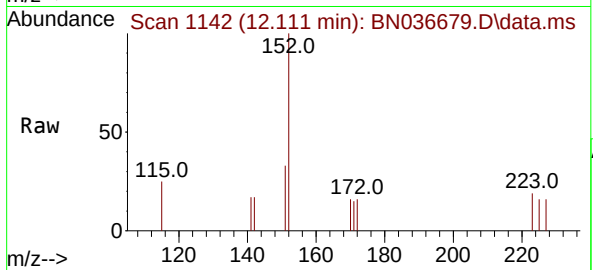




#11
2-Methylnaphthalene-d10
Concen: 0.129 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

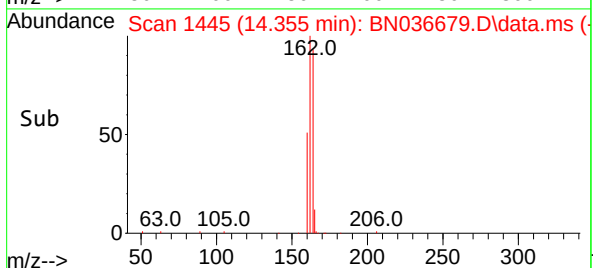
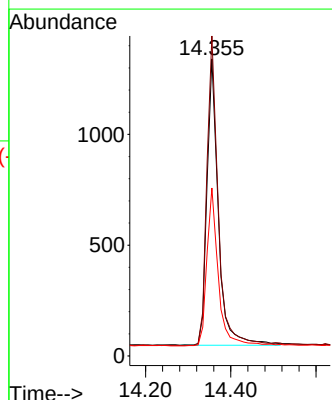
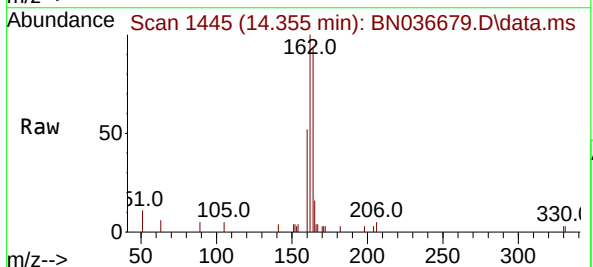
Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313DL

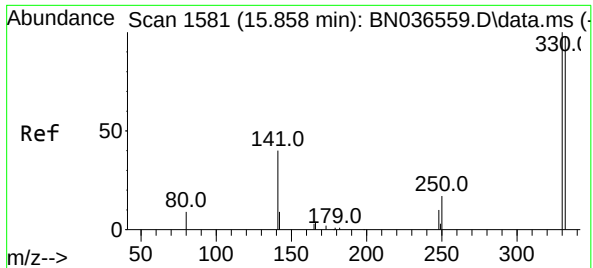
Tgt Ion:152 Resp: 730
Ion Ratio Lower Upper
152 100
151 21.1 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

Tgt Ion:164 Resp: 2398
Ion Ratio Lower Upper
164 100
162 107.7 84.2 126.2
160 56.5 42.2 63.2

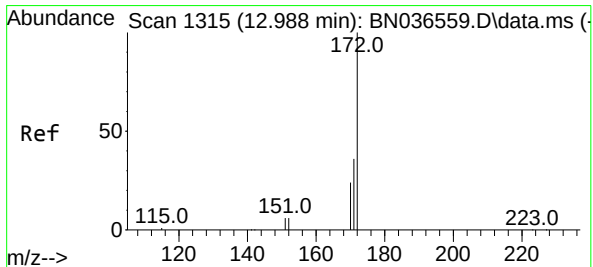
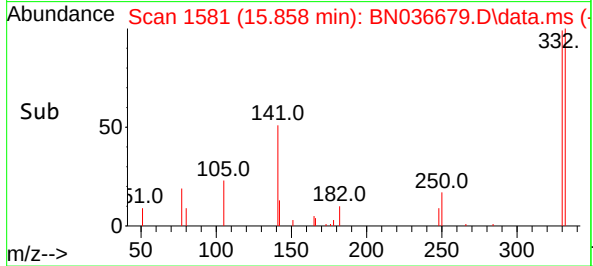
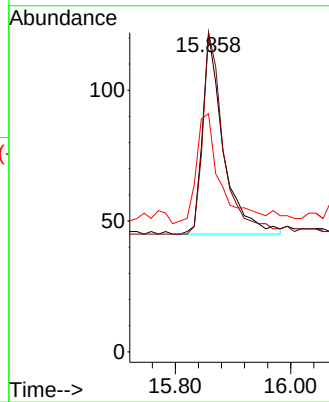
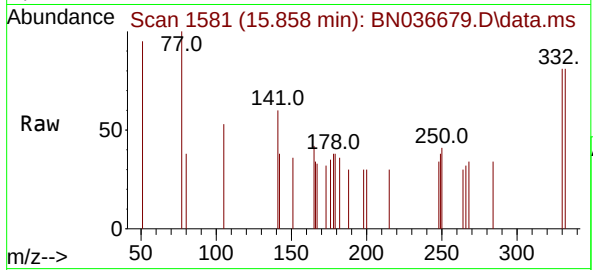




#14
2,4,6-Tribromophenol
Concen: 0.177 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

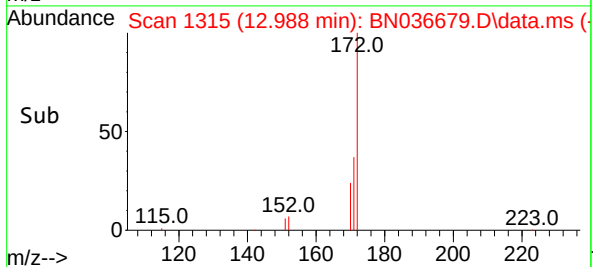
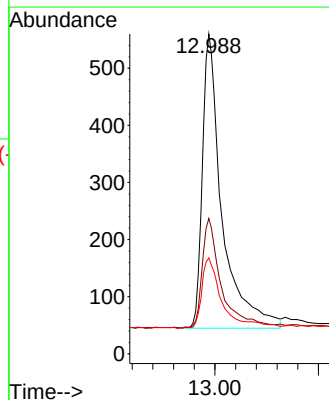
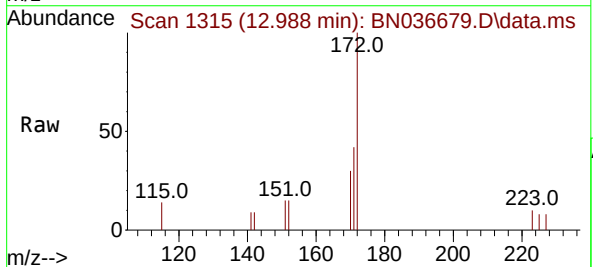
Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313DL

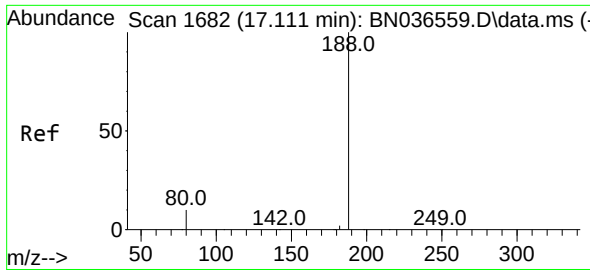
Tgt Ion:330 Resp: 193
Ion Ratio Lower Upper
330 100
332 99.0 75.2 112.8
141 63.2 43.4 65.2



#15
2-Fluorobiphenyl
Concen: 0.118 ng
RT: 12.988 min Scan# 1315
Delta R.T. 0.000 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

Tgt Ion:172 Resp: 1653
Ion Ratio Lower Upper
172 100
171 42.3 29.5 44.3
170 30.0 20.2 30.4





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN036679.D

Acq: 18 Mar 2025 03:40

Instrument :

BNA_N

ClientSampleId :

TT180D2-20250313DL

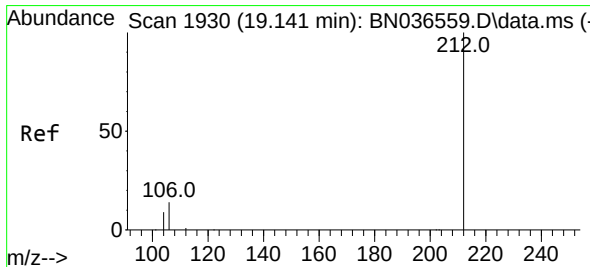
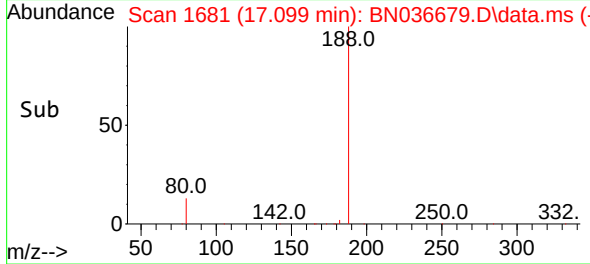
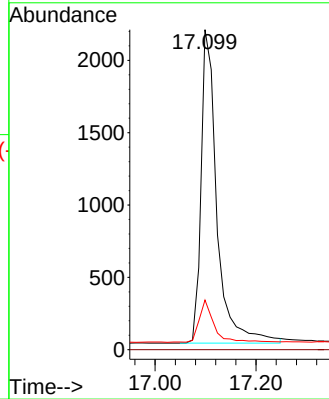
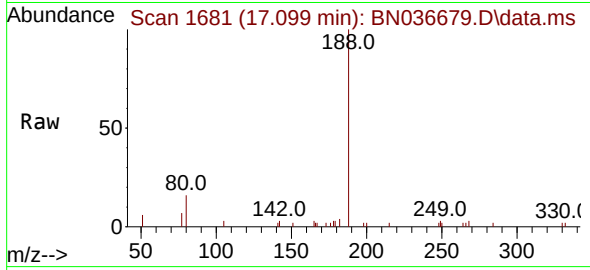
Tgt Ion:188 Resp: 4730

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.5 8.8 13.2#



#27

Fluoranthene-d10

Concen: 0.203 ng

RT: 19.136 min Scan# 1929

Delta R.T. -0.005 min

Lab File: BN036679.D

Acq: 18 Mar 2025 03:40

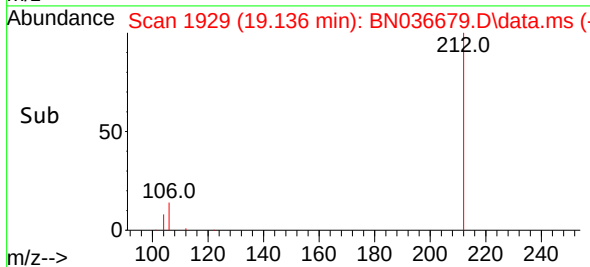
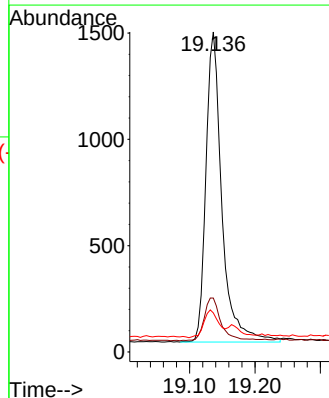
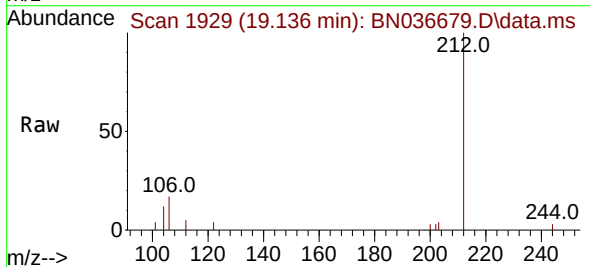
Tgt Ion:212 Resp: 2465

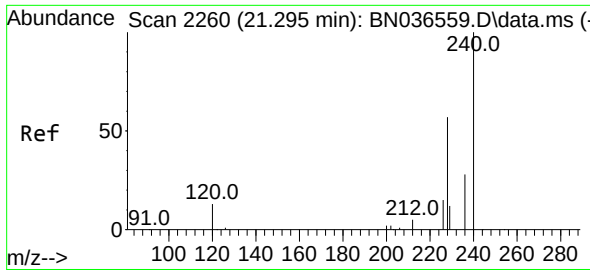
Ion Ratio Lower Upper

212 100

106 14.6 11.8 17.6

104 8.4 7.3 10.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036679.D

Acq: 18 Mar 2025 03:40

Instrument :

BNA_N

ClientSampleId :

TT180D2-20250313DL

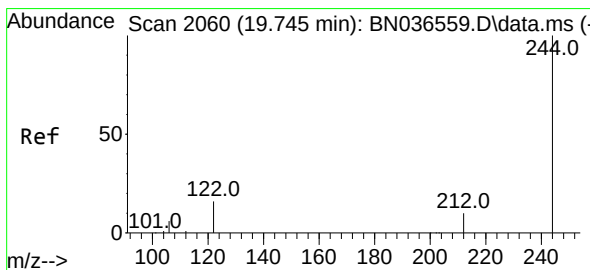
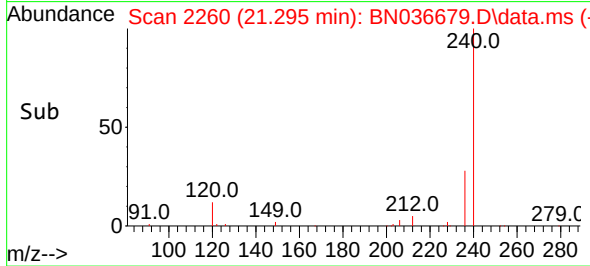
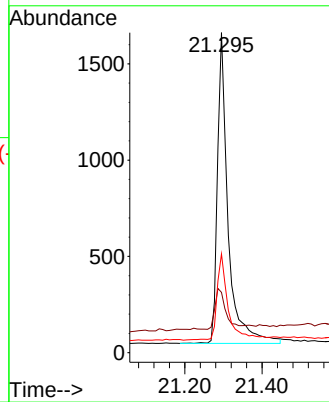
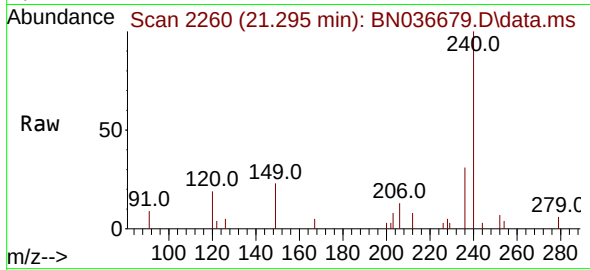
Tgt Ion:240 Resp: 3082

Ion Ratio Lower Upper

240 100

120 18.8 14.6 22.0

236 30.9 24.1 36.1



#31

Terphenyl-d14

Concen: 0.237 ng

RT: 19.736 min Scan# 2058

Delta R.T. -0.009 min

Lab File: BN036679.D

Acq: 18 Mar 2025 03:40

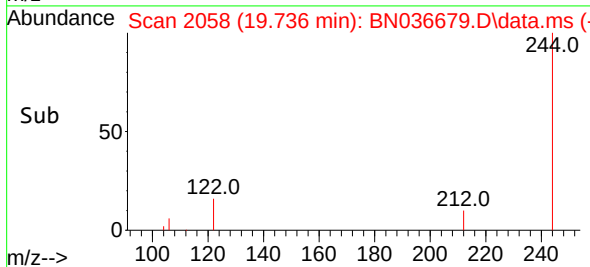
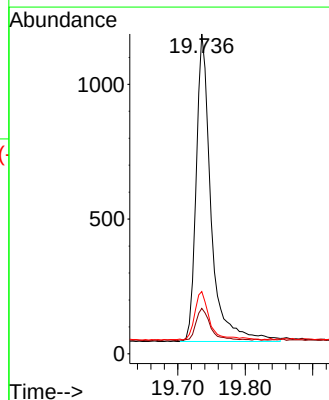
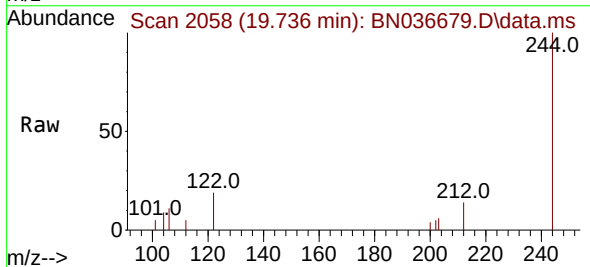
Tgt Ion:244 Resp: 1748

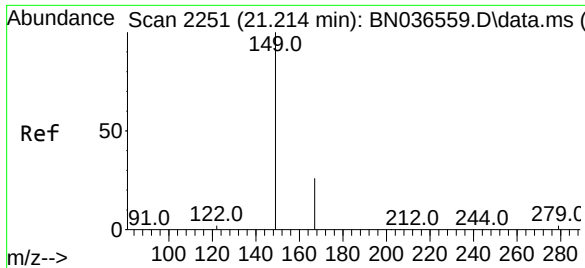
Ion Ratio Lower Upper

244 100

212 14.2 9.6 14.4

122 19.5 13.9 20.9

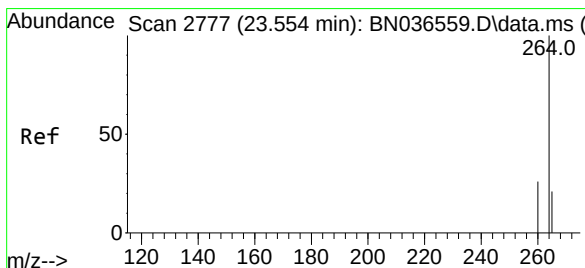
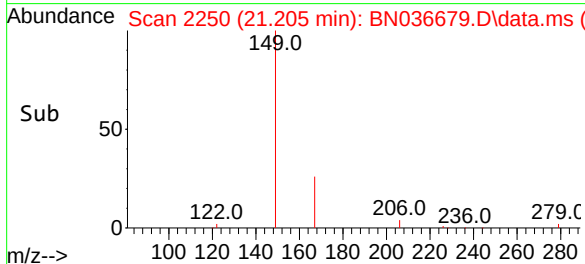
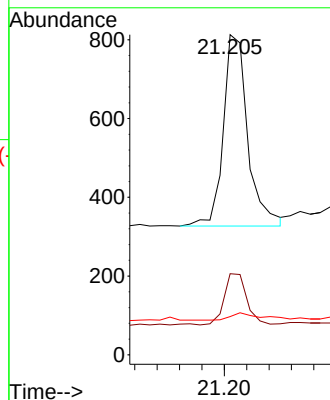
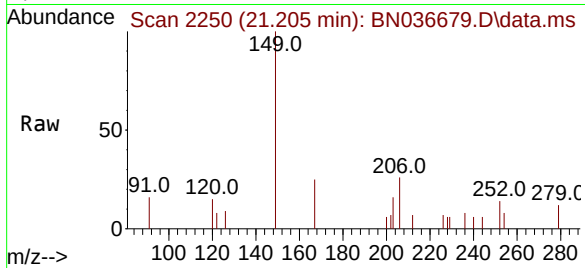




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.097 ng
RT: 21.205 min Scan# 2120
Delta R.T. -0.009 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

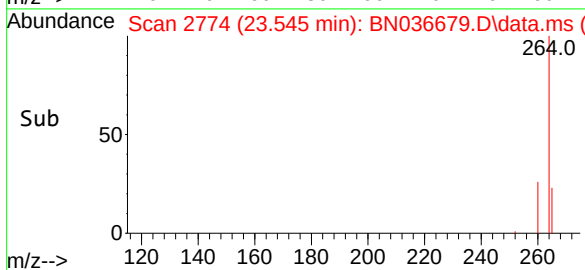
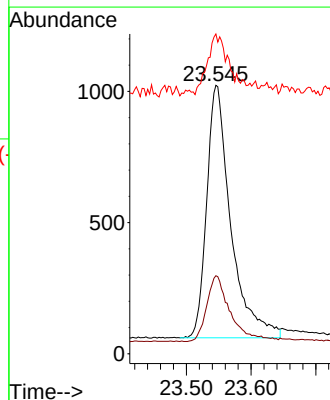
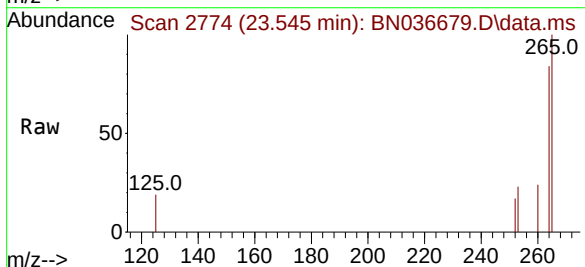
Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313DL

Tgt Ion:149 Resp: 739
Ion Ratio Lower Upper
149 100
167 23.5 20.7 31.1
279 5.5 3.6 5.4#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.545 min Scan# 2774
Delta R.T. -0.009 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

Tgt Ion:264 Resp: 2493
Ion Ratio Lower Upper
264 100
260 29.1 22.6 33.8
265 119.2 88.1 132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	TT180D-20250313	SDG No.:	Q1582
Lab Sample ID:	Q1582-04	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
BN036662.D	1	03/17/25 08:48	03/17/25 16:43	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		114%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1470	7.717				
1146-65-2	Naphthalene-d8	3490	10.509				
15067-26-2	Acenaphthene-d10	1970	14.355				
1517-22-2	Phenanthrene-d10	3400	17.099				
1719-03-5	Chrysene-d12	2380	21.295				
1520-96-3	Perylene-d12	2180	23.548				

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\BN031725\
Data File : BN036662.D
Acq On : 17 Mar 2025 16:43
Operator : RC/JU
Sample : Q1582-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT180D-20250313

Quant Time: Mar 17 17:51:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

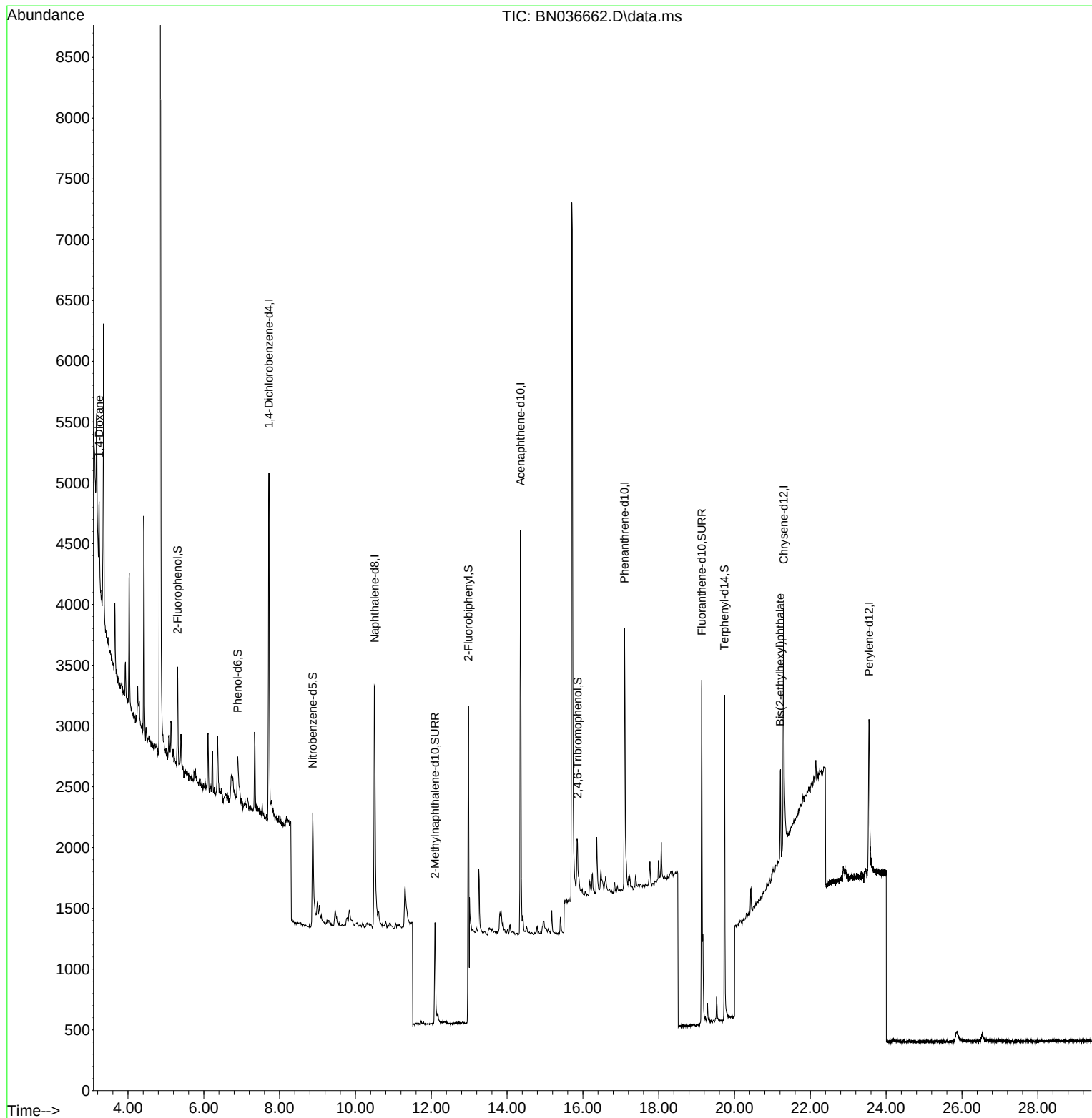
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1471	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	3486	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	1974	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	3397	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	2382	0.400	ng	0.00
35) Perylene-d12	23.548	264	2179	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	592	0.173	ng	0.00
5) Phenol-d6	6.894	99	397	0.094	ng	0.00
8) Nitrobenzene-d5	8.875	82	1160	0.306	ng	0.00
11) 2-Methylnaphthalene-d10	12.096	152	1492	0.288	ng	-0.02
14) 2,4,6-Tribromophenol	15.858	330	308	0.344	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	3792	0.330	ng	-0.01
27) Fluoranthene-d10	19.136	212	3548	0.408	ng	0.00
31) Terphenyl-d14	19.736	244	2614	0.458	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	319	0.195	ng	# 53
34) Bis(2-ethylhexyl)phtha...	21.205	149	896	0.152	ng	96

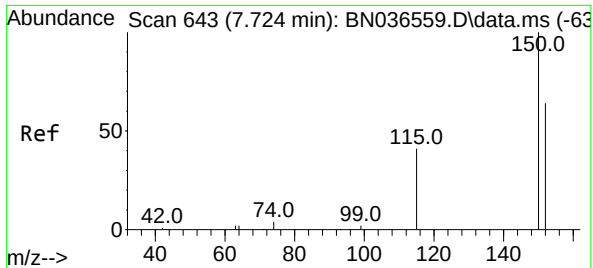
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036662.D
Acq On : 17 Mar 2025 16:43
Operator : RC/JU
Sample : Q1582-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT180D-20250313

Quant Time: Mar 17 17:51:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

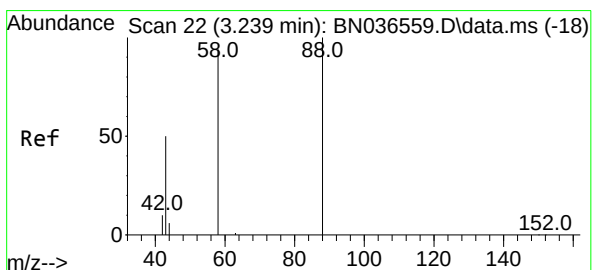
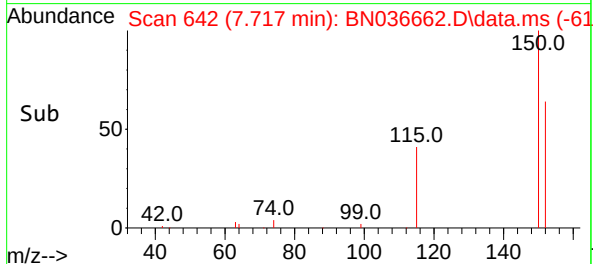
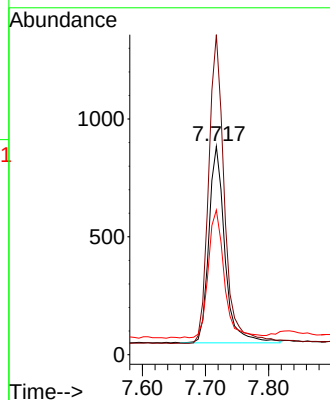
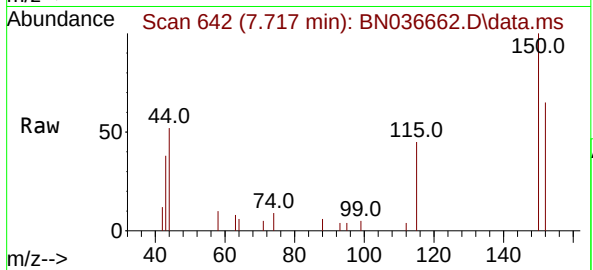




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

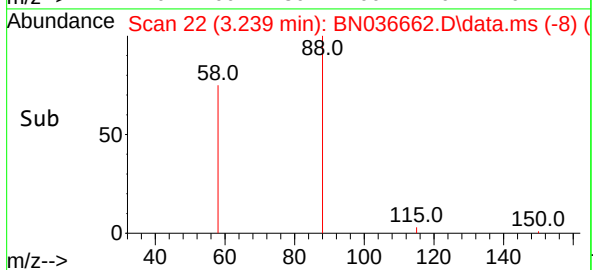
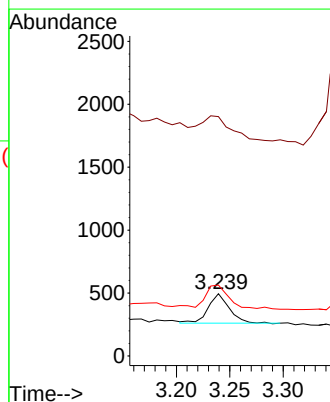
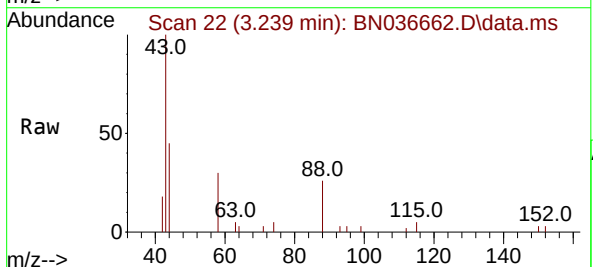
Instrument :
BNA_N
ClientSampleId :
TT180D-20250313

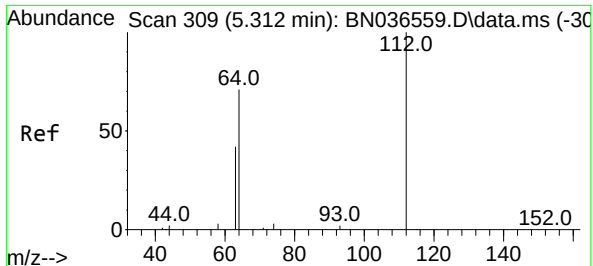
Tgt Ion:152 Resp: 1471
Ion Ratio Lower Upper
152 100
150 153.6 123.7 185.5
115 69.5 54.3 81.5



#2
1,4-Dioxane
Concen: 0.195 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

Tgt Ion: 88 Resp: 319
Ion Ratio Lower Upper
88 100
43 120.7 37.8 56.8#
58 94.7 67.4 101.2

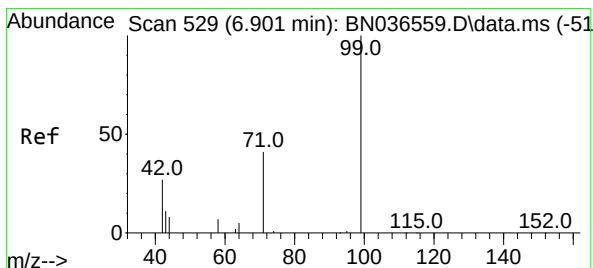
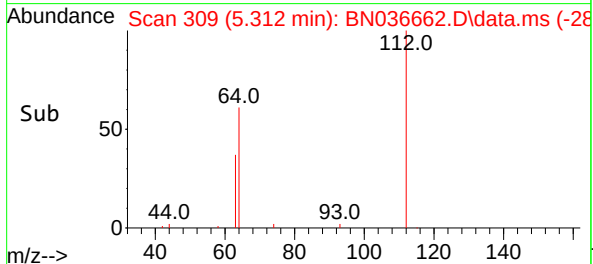
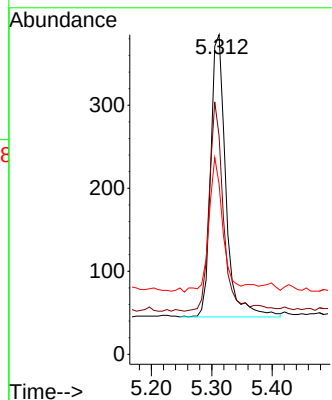
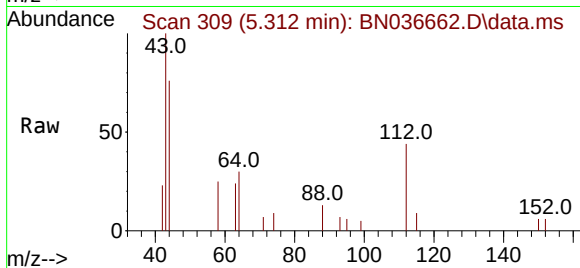




#4
2-Fluorophenol
Concen: 0.173 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

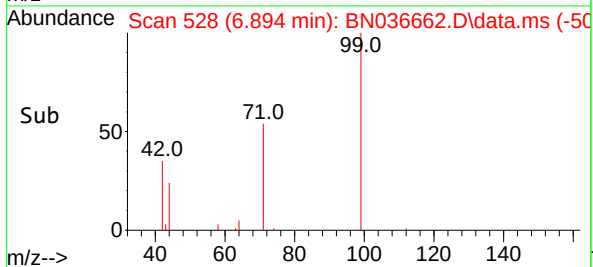
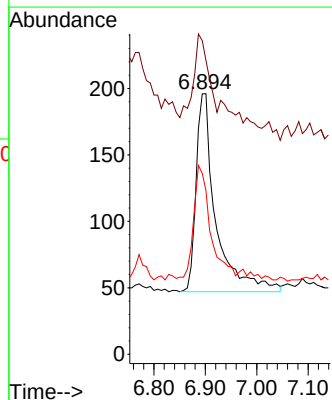
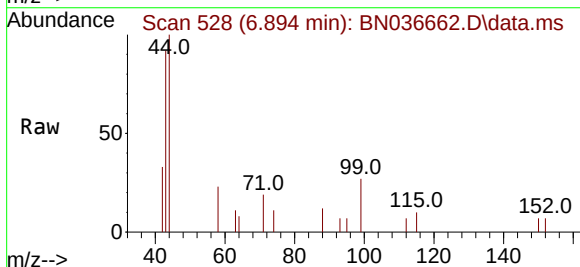
Instrument :
BNA_N
ClientSampleId :
TT180D-20250313

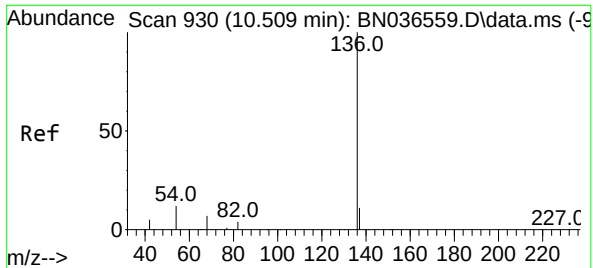
Tgt Ion	Ratio	Lower	Upper
112	100		
64	70.3	53.1	79.7
63	43.4	31.8	47.8



#5
Phenol-d6
Concen: 0.094 ng
RT: 6.894 min Scan# 528
Delta R.T. -0.007 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

Tgt Ion	Ratio	Lower	Upper
99	100		
42	30.2	26.5	39.7
71	48.1	34.1	51.1

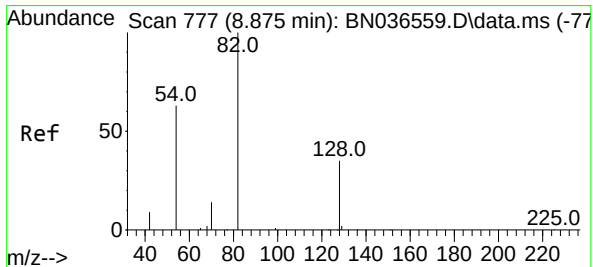
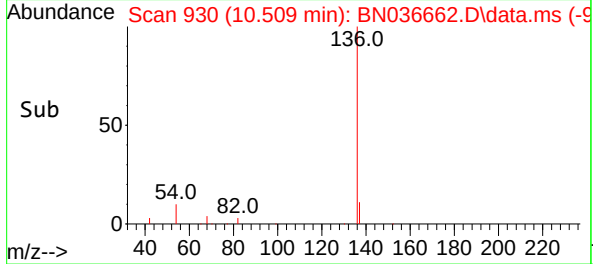
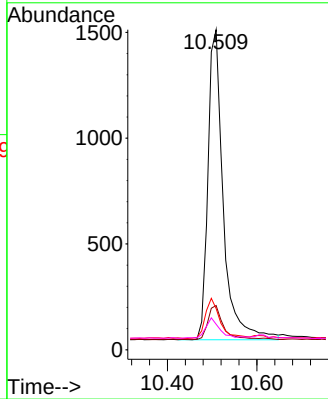
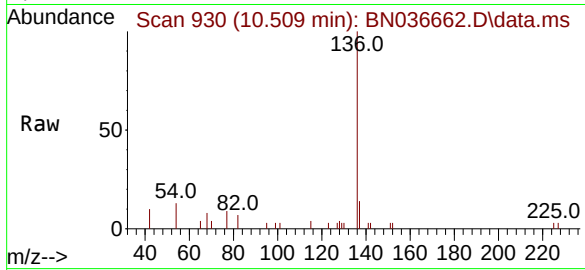




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

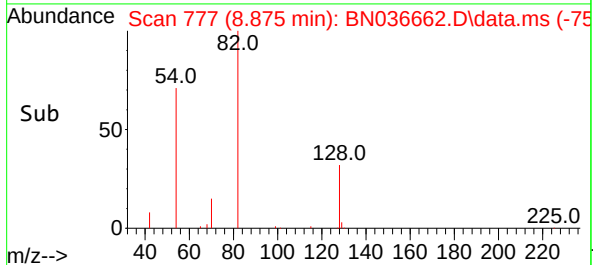
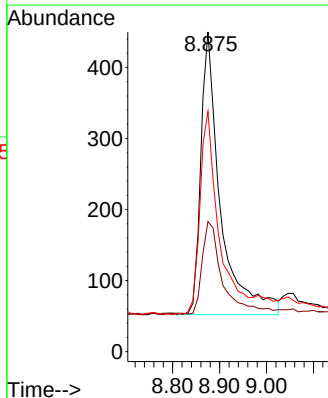
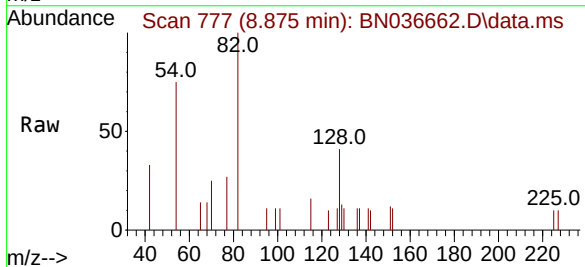
Instrument :
BNA_N
ClientSampleId :
TT180D-20250313

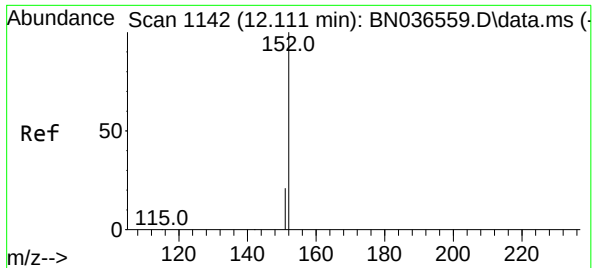
Tgt Ion:	136	Resp:	3486
Ion	Ratio	Lower	Upper
136	100		
137	13.8	10.3	15.5
54	12.9	11.5	17.3
68	8.0	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.306 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

Tgt Ion:	82	Resp:	1160
Ion	Ratio	Lower	Upper
82	100		
128	40.7	30.6	45.8
54	75.1	52.2	78.4

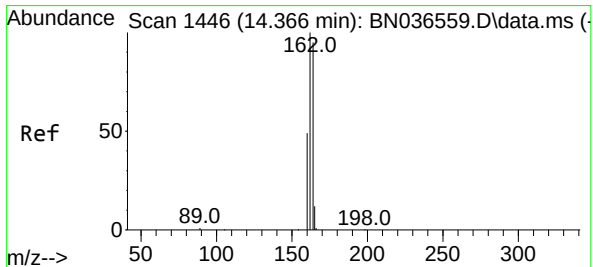
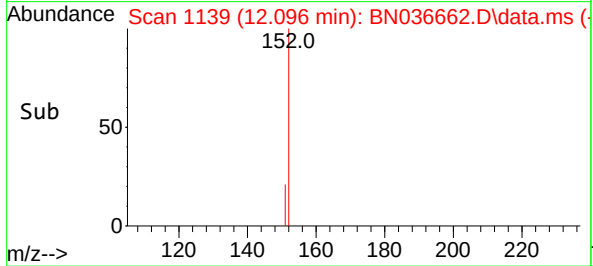
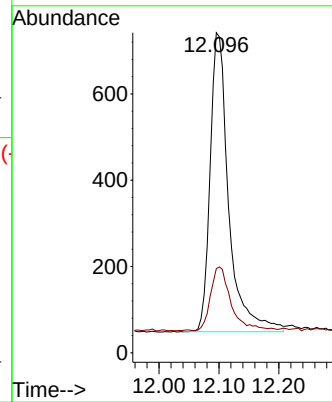
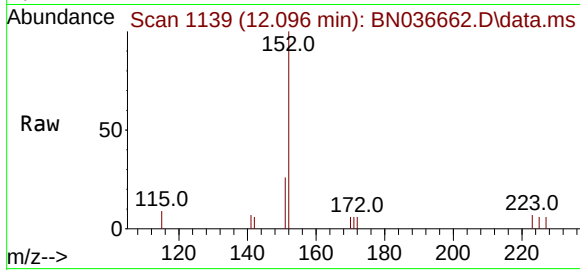




#11
2-Methylnaphthalene-d10
Concen: 0.288 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

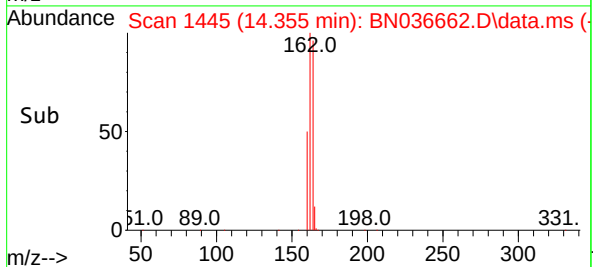
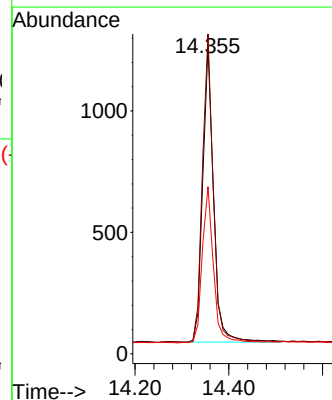
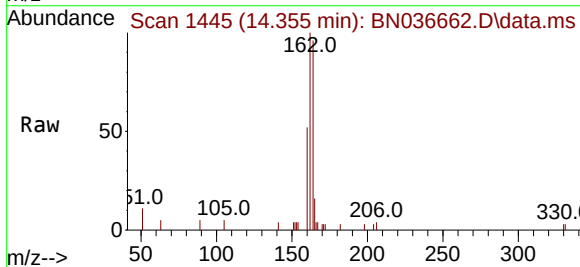
Instrument :
BNA_N
ClientSampleId :
TT180D-20250313

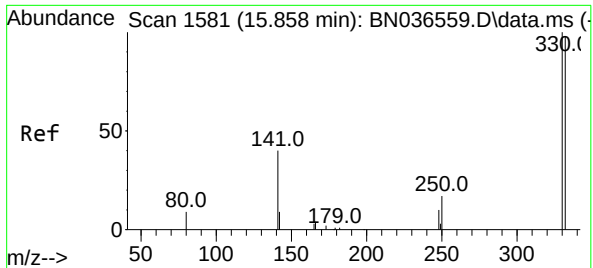
Tgt Ion:152 Resp: 1492
Ion Ratio Lower Upper
152 100
151 23.4 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

Tgt Ion:164 Resp: 1974
Ion Ratio Lower Upper
164 100
162 103.9 84.2 126.2
160 54.3 42.2 63.2

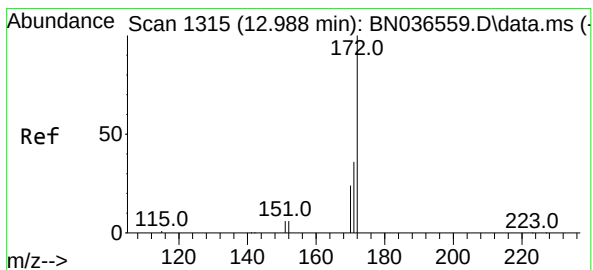
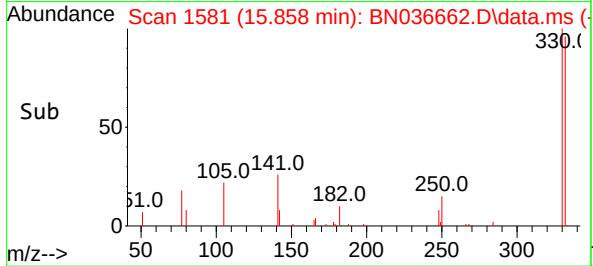
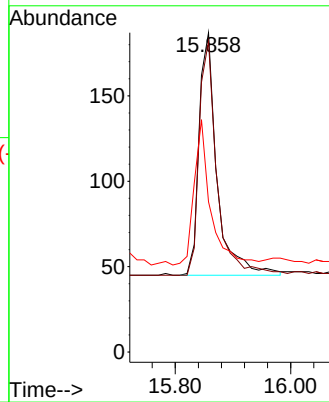
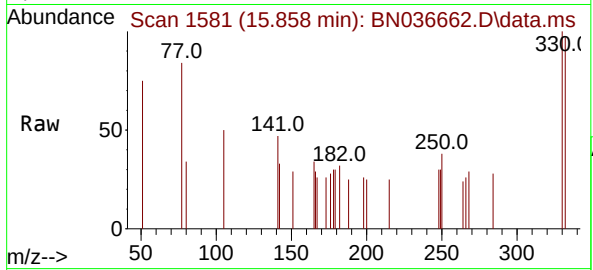




#14
2,4,6-Tribromophenol
Concen: 0.344 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

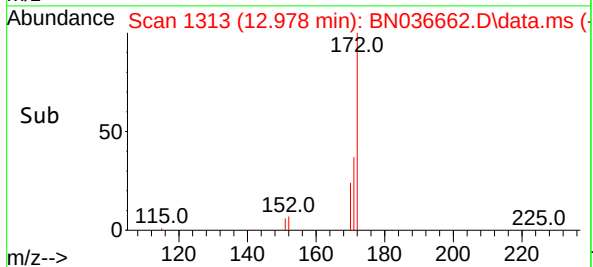
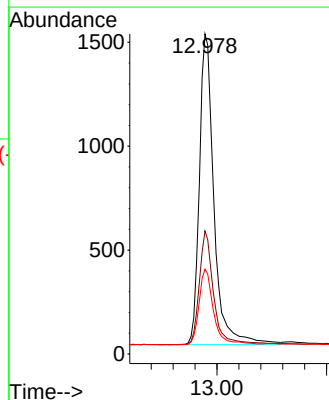
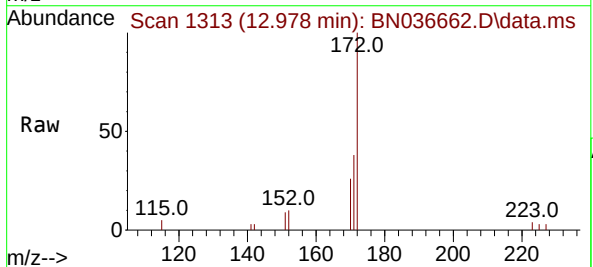
Instrument :
BNA_N
ClientSampleId :
TT180D-20250313

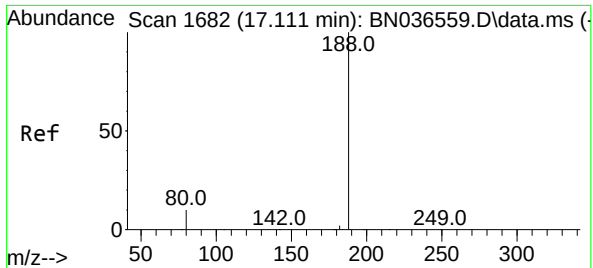
Tgt Ion:330 Resp: 308
Ion Ratio Lower Upper
330 100
332 95.1 75.2 112.8
141 54.5 43.4 65.2



#15
2-Fluorobiphenyl
Concen: 0.330 ng
RT: 12.978 min Scan# 1313
Delta R.T. -0.010 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

Tgt Ion:172 Resp: 3792
Ion Ratio Lower Upper
172 100
171 38.4 29.5 44.3
170 26.5 20.2 30.4





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN036662.D

Acq: 17 Mar 2025 16:43

Instrument :

BNA_N

ClientSampleId :

TT180D-20250313

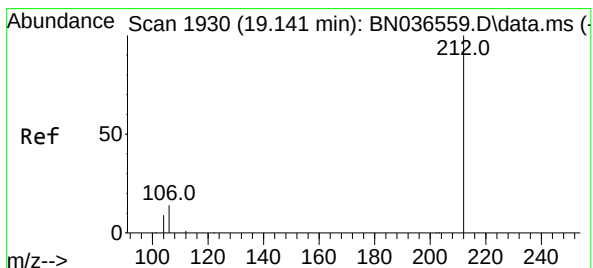
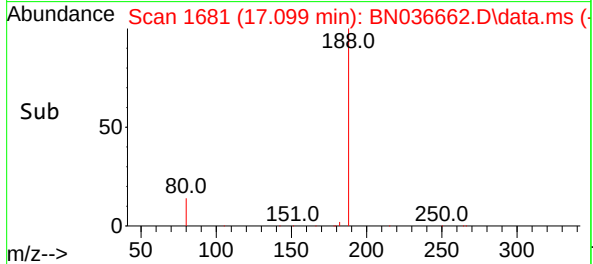
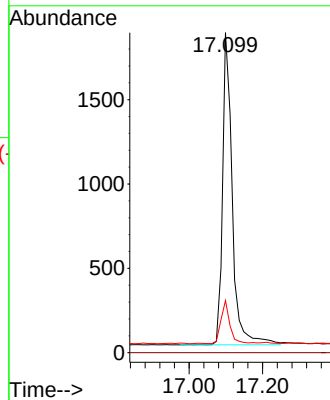
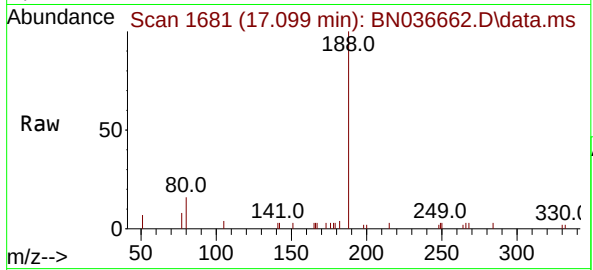
Tgt Ion:188 Resp: 3397

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.3 8.8 13.2#



#27

Fluoranthene-d10

Concen: 0.408 ng

RT: 19.136 min Scan# 1929

Delta R.T. -0.005 min

Lab File: BN036662.D

Acq: 17 Mar 2025 16:43

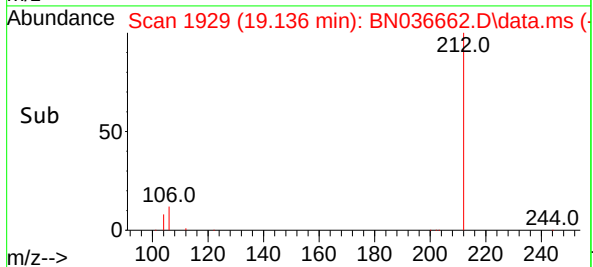
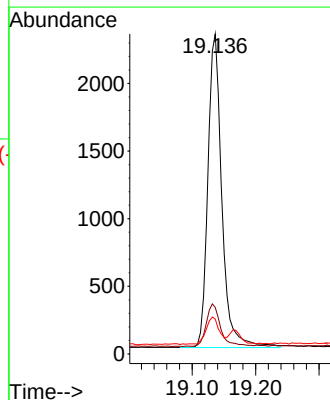
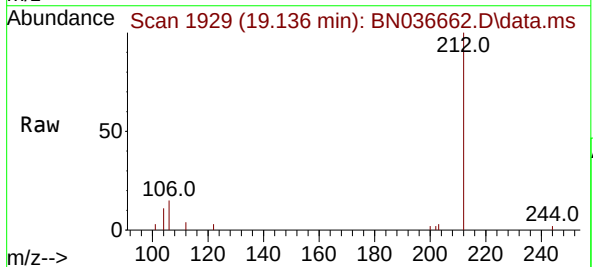
Tgt Ion:212 Resp: 3548

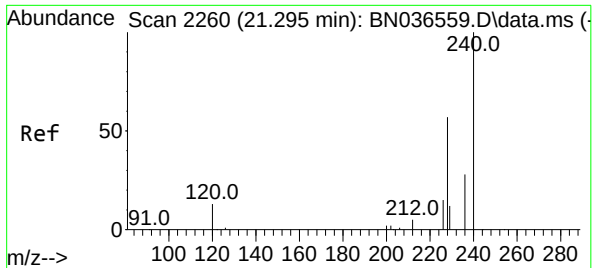
Ion Ratio Lower Upper

212 100

106 13.7 11.8 17.6

104 7.9 7.3 10.9

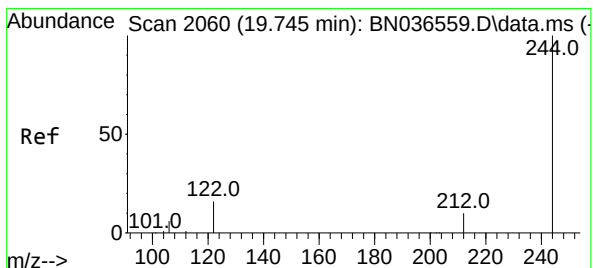
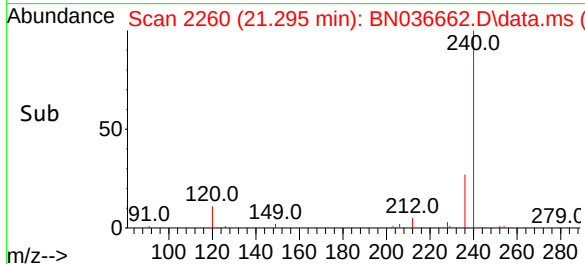
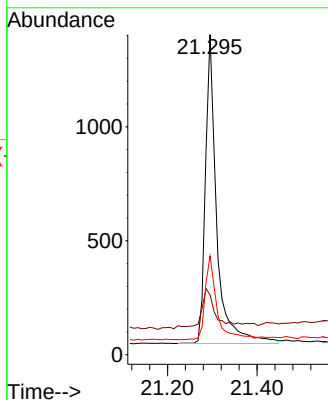
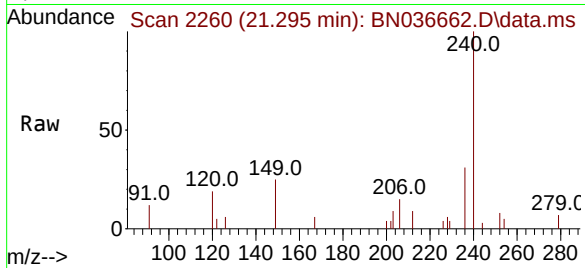




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

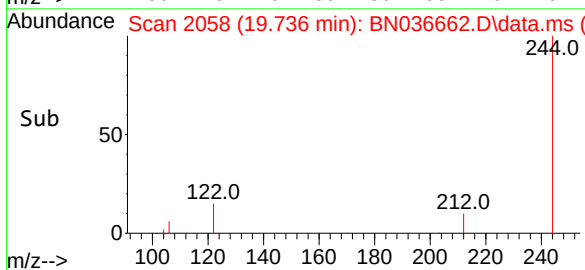
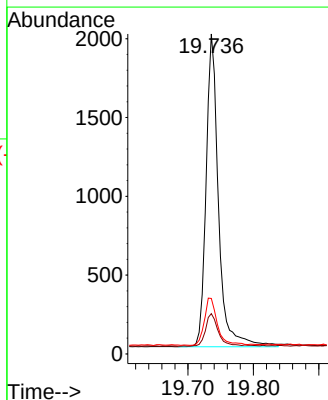
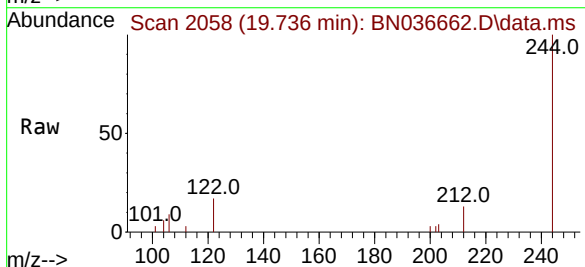
Instrument :
BNA_N
ClientSampleId :
TT180D-20250313

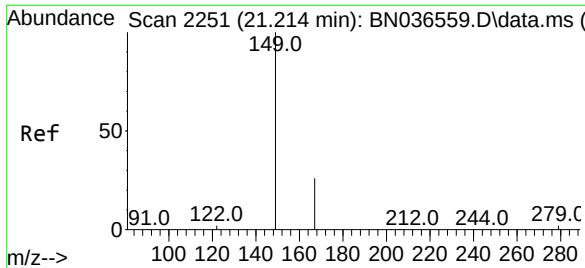
Tgt Ion	Ratio	Lower	Upper
240	100		
120	18.7	14.6	22.0
236	30.8	24.1	36.1



#31
Terphenyl-d14
Concen: 0.458 ng
RT: 19.736 min Scan# 2058
Delta R.T. -0.009 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.6	9.6	14.4
122	17.3	13.9	20.9

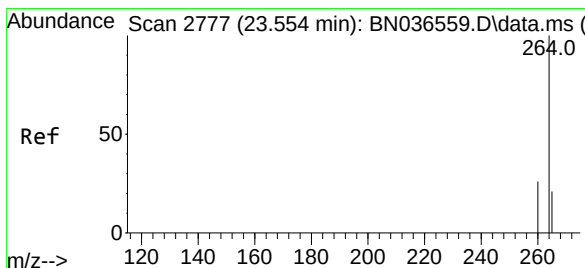
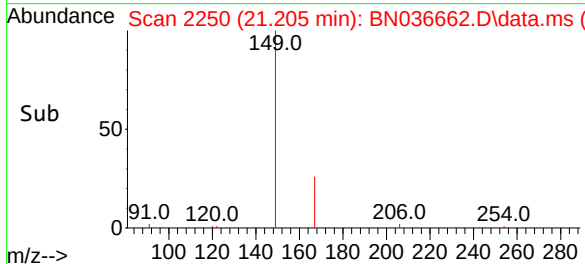
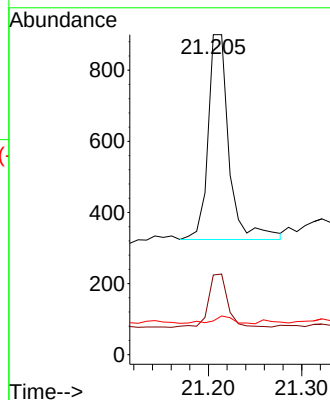
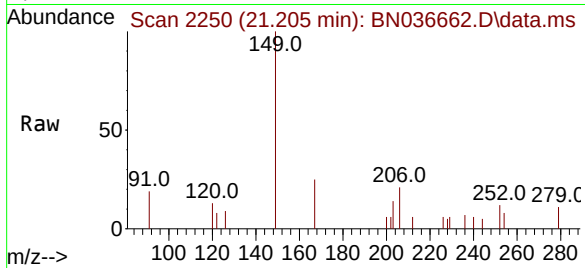




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.152 ng
 RT: 21.205 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN036662.D
 Acq: 17 Mar 2025 16:43

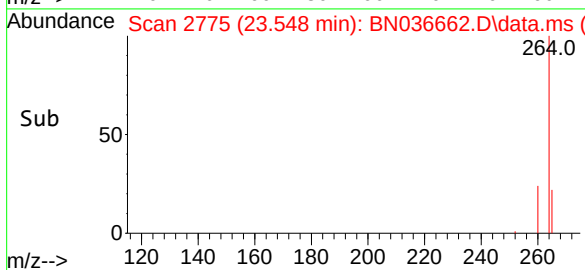
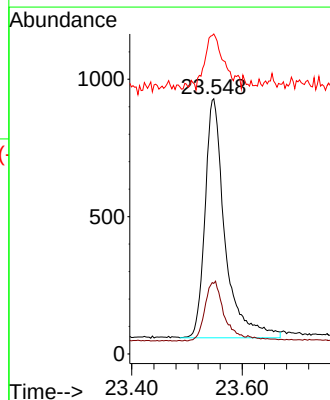
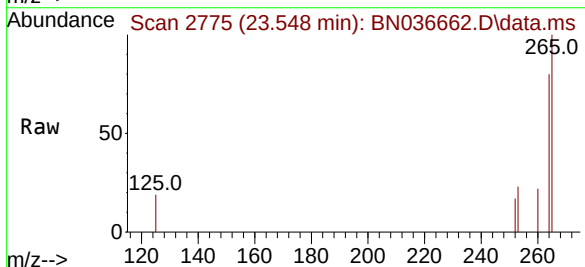
Instrument :
 BNA_N
 ClientSampleId :
 TT180D-20250313

Tgt Ion:149 Resp: 896
 Ion Ratio Lower Upper
 149 100
 167 23.9 20.7 31.1
 279 3.8 3.6 5.4



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.548 min Scan# 2775
 Delta R.T. -0.006 min
 Lab File: BN036662.D
 Acq: 17 Mar 2025 16:43

Tgt Ion:264 Resp: 2179
 Ion Ratio Lower Upper
 264 100
 260 27.7 22.6 33.8
 265 125.4 88.1 132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	FB02-20250313	SDG No.:	Q1582
Lab Sample ID:	Q1582-05	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036663.D	1	03/17/25 08:48	03/17/25 17:19	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	U	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		107%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		80%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53		58 - 132		132%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1550	7.717				
1146-65-2	Naphthalene-d8	3770	10.509				
15067-26-2	Acenaphthene-d10	2230	14.355				
1517-22-2	Phenanthrene-d10	4300	17.099				
1719-03-5	Chrysene-d12	2710	21.295				
1520-96-3	Perylene-d12	2310	23.548				

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\BN031725\
Data File : BN036663.D
Acq On : 17 Mar 2025 17:19
Operator : RC/JU
Sample : Q1582-05
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
FB02-20250313

Quant Time: Mar 17 17:53:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

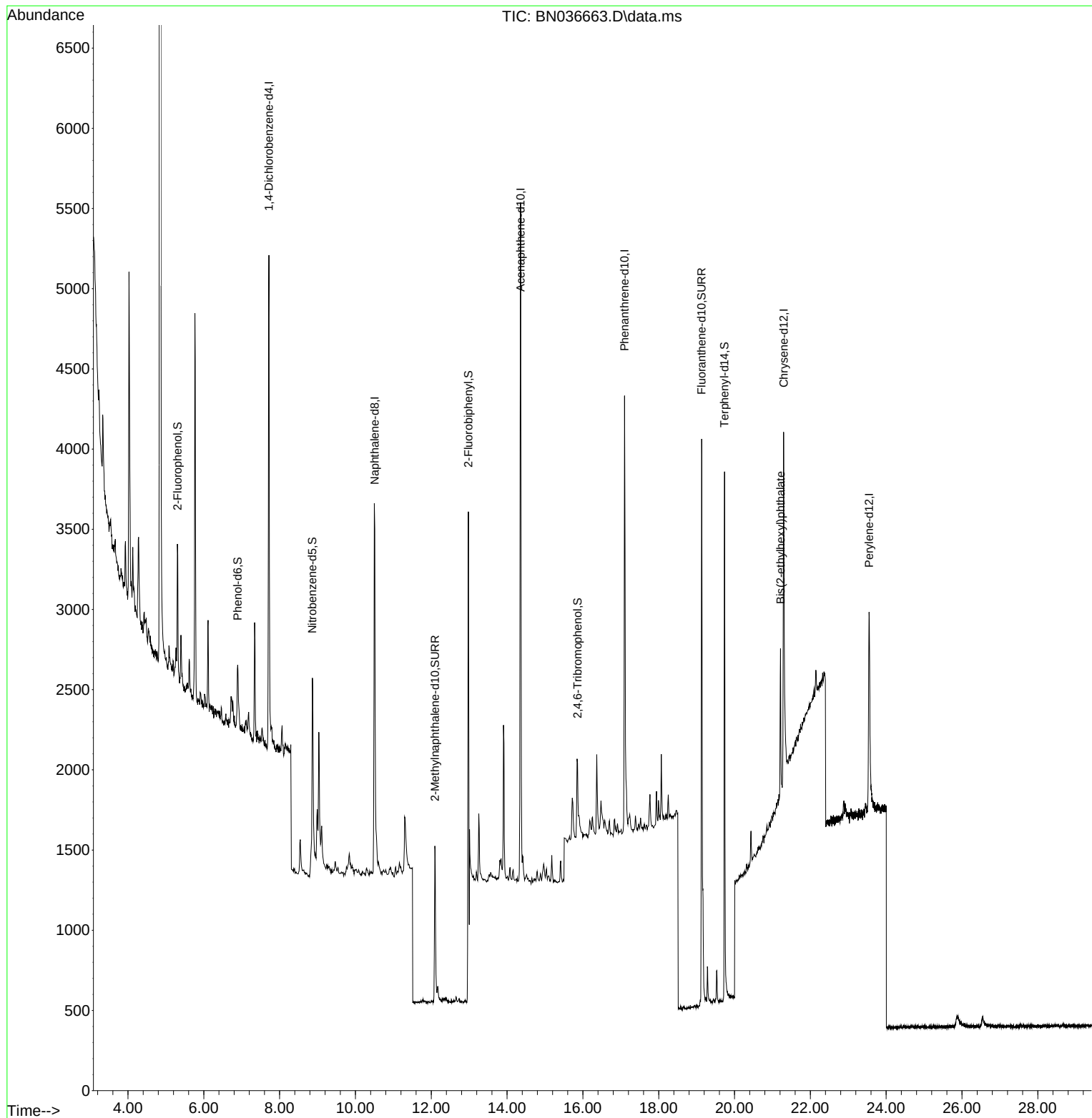
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1550	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	3768	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	2232	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	4299	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	2706	0.400	ng	0.00
35) Perylene-d12	23.548	264	2307	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	608	0.168	ng	0.00
5) Phenol-d6	6.894	99	417	0.093	ng	0.00
8) Nitrobenzene-d5	8.864	82	1306	0.319	ng	-0.01
11) 2-Methylnaphthalene-d10	12.095	152	1677	0.299	ng	-0.02
14) 2,4,6-Tribromophenol	15.858	330	380	0.375	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	4324	0.333	ng	-0.01
27) Fluoranthene-d10	19.132	212	4706	0.427	ng	0.00
31) Terphenyl-d14	19.736	244	3413	0.526	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.214	149	1025	0.153	ng	# 97

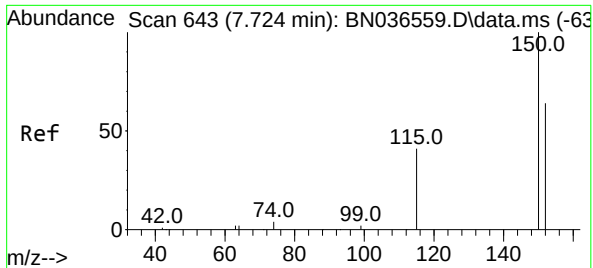
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036663.D
Acq On : 17 Mar 2025 17:19
Operator : RC/JU
Sample : Q1582-05
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
FB02-20250313

Quant Time: Mar 17 17:53:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

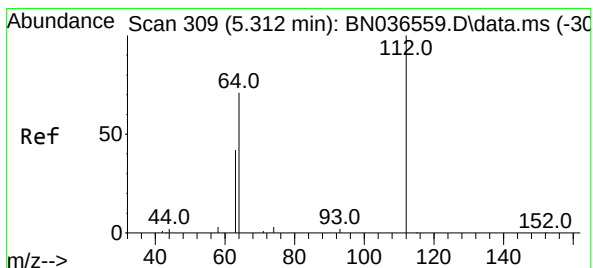
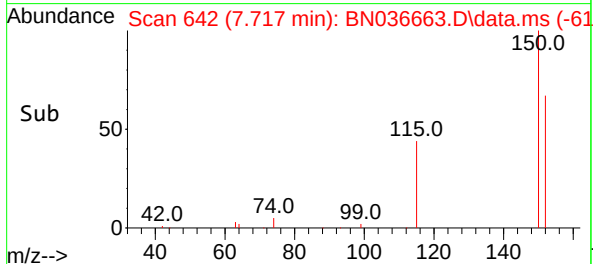
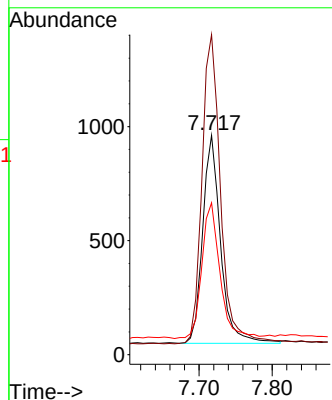
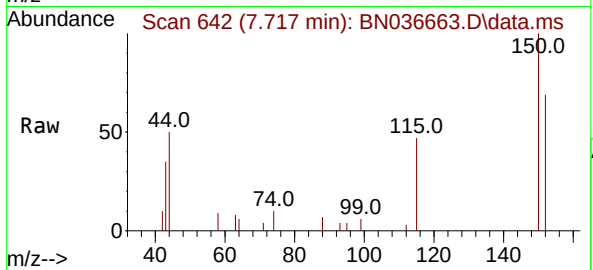




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

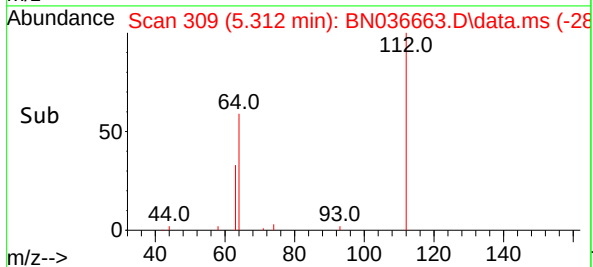
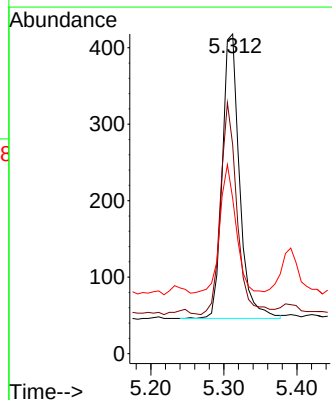
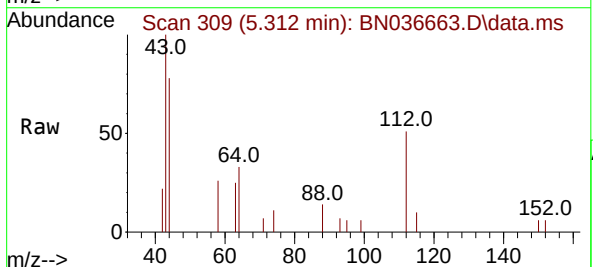
Instrument :
BNA_N
ClientSampleId :
FB02-20250313

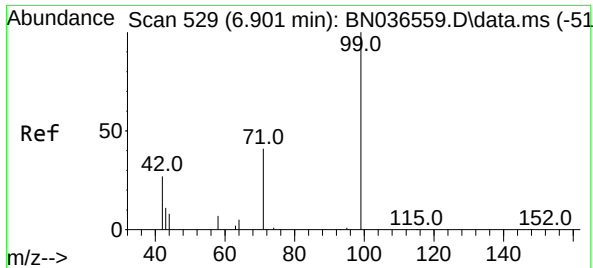
Tgt Ion:152 Resp: 1550
Ion Ratio Lower Upper
152 100
150 145.8 123.7 185.5
115 69.2 54.3 81.5



#4
2-Fluorophenol
Concen: 0.168 ng
RT: 5.312 min Scan# 309
Delta R.T. -0.000 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

Tgt Ion:112 Resp: 608
Ion Ratio Lower Upper
112 100
64 71.2 53.1 79.7
63 47.7 31.8 47.8

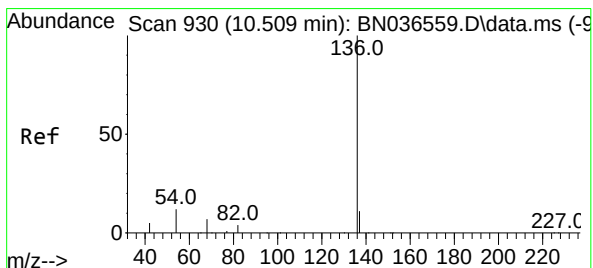
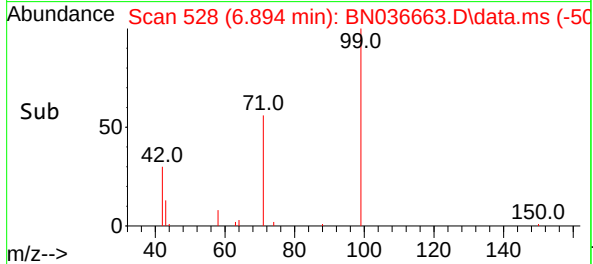
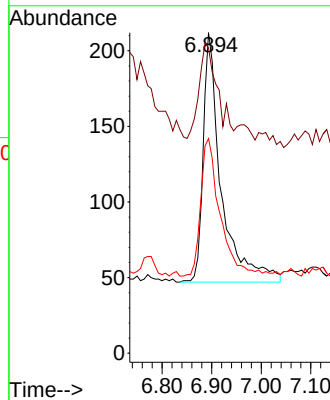
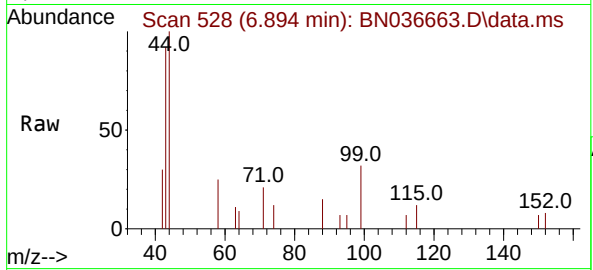




#5
Phenol-d6
Concen: 0.093 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

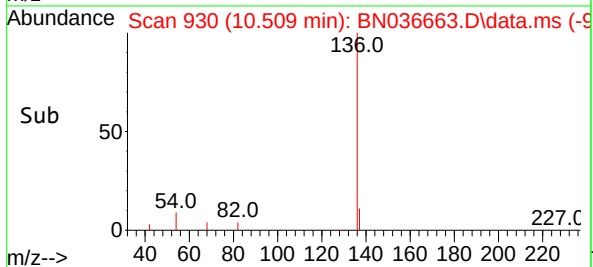
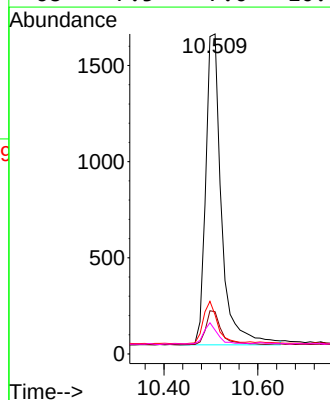
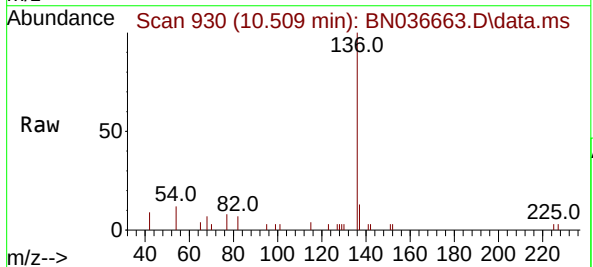
Instrument :
BNA_N
ClientSampleId :
FB02-20250313

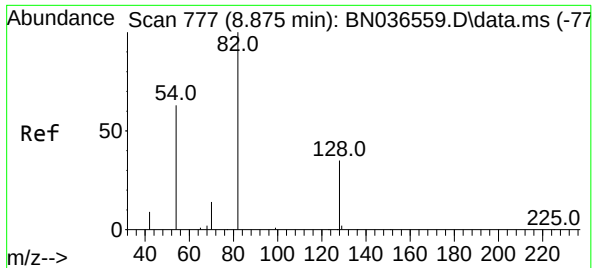
Tgt Ion: 99 Resp: 417
Ion Ratio Lower Upper
99 100
42 38.6 26.5 39.7
71 59.5 34.1 51.1#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. -0.000 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

Tgt Ion: 136 Resp: 3768
Ion Ratio Lower Upper
136 100
137 13.2 10.3 15.5
54 12.2 11.5 17.3
68 7.5 7.0 10.4

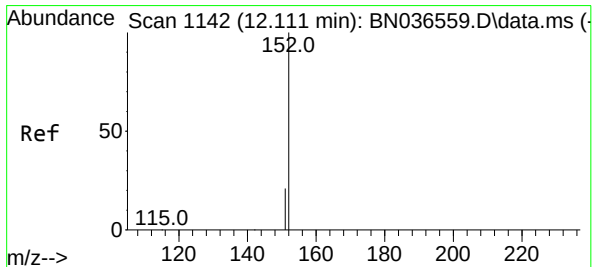
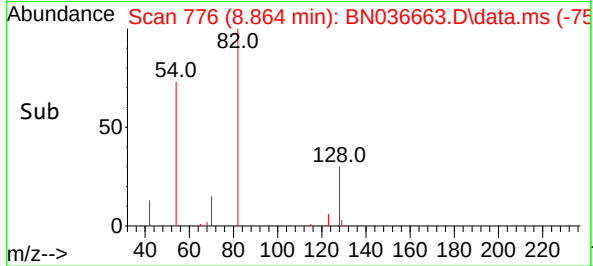
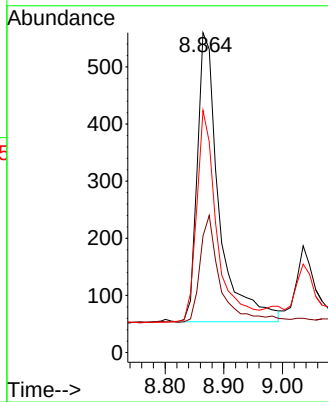
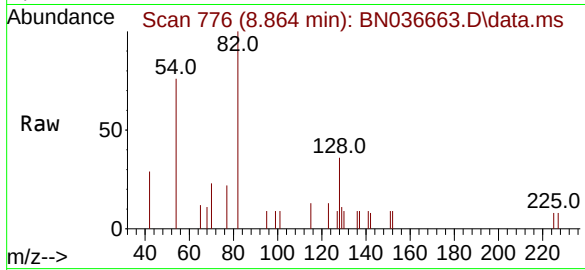




#8
Nitrobenzene-d5
Concen: 0.319 ng
RT: 8.864 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

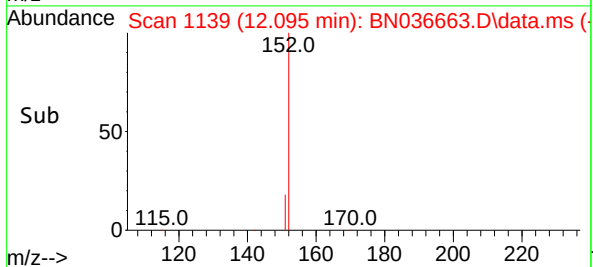
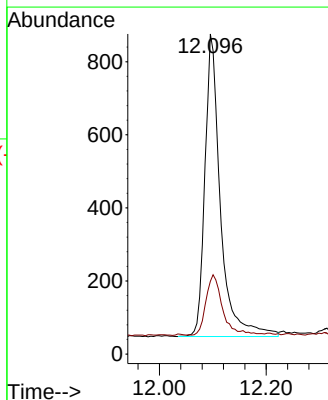
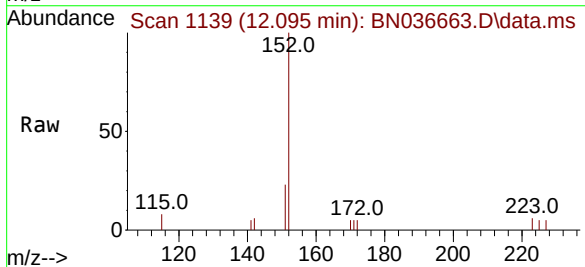
Instrument :
BNA_N
ClientSampleId :
FB02-20250313

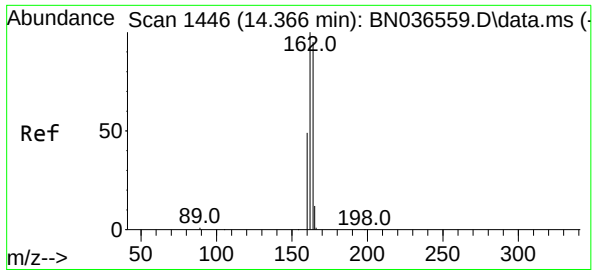
Tgt Ion:	82	Resp:	1306
Ion	Ratio	Lower	Upper
82	100		
128	36.4	30.6	45.8
54	75.7	52.2	78.4



#11
2-Methylnaphthalene-d10
Concen: 0.299 ng
RT: 12.095 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

Tgt Ion:	152	Resp:	1677
Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

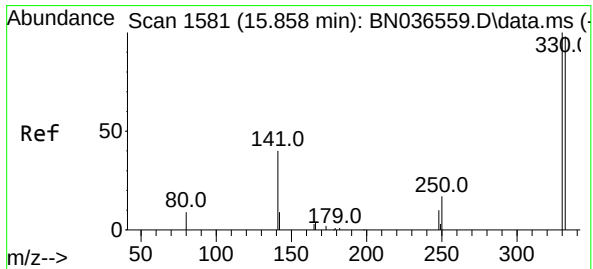
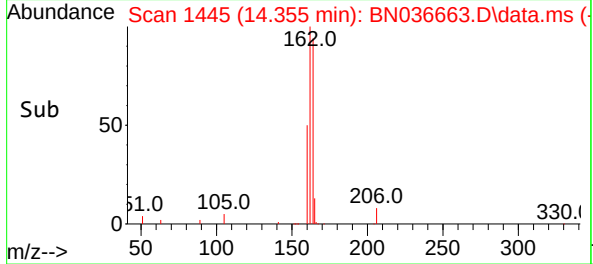
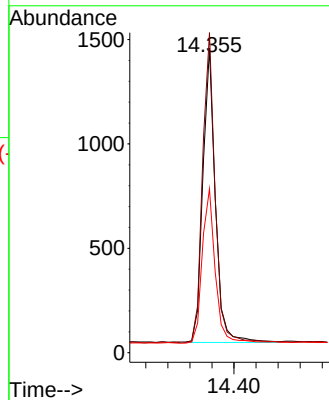
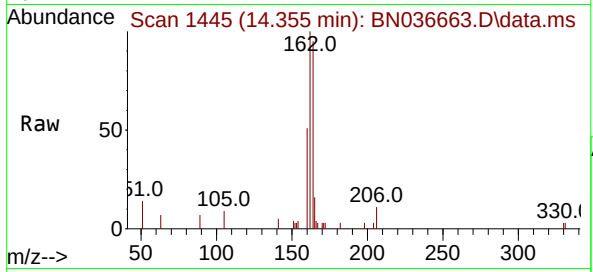




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

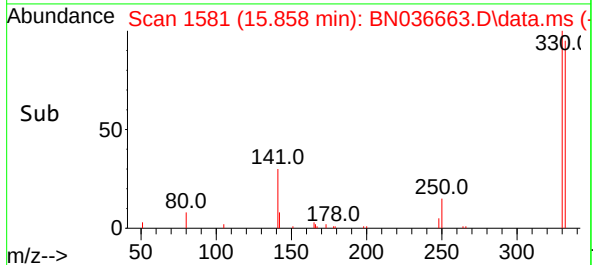
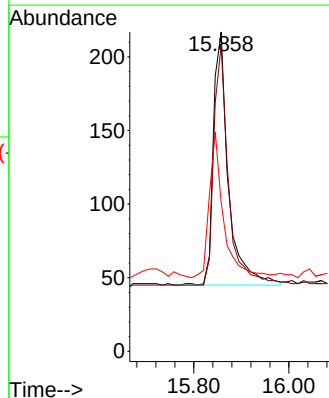
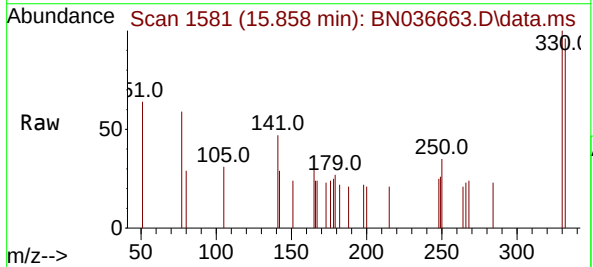
Instrument :
BNA_N
ClientSampleId :
FB02-20250313

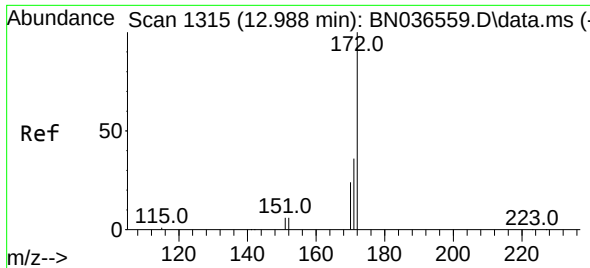
Tgt Ion:164 Resp: 2232
Ion Ratio Lower Upper
164 100
162 105.1 84.2 126.2
160 53.8 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.375 ng
RT: 15.858 min Scan# 1581
Delta R.T. -0.000 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

Tgt Ion:330 Resp: 380
Ion Ratio Lower Upper
330 100
332 92.1 75.2 112.8
141 54.5 43.4 65.2

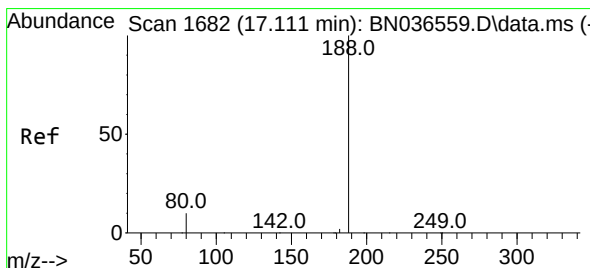
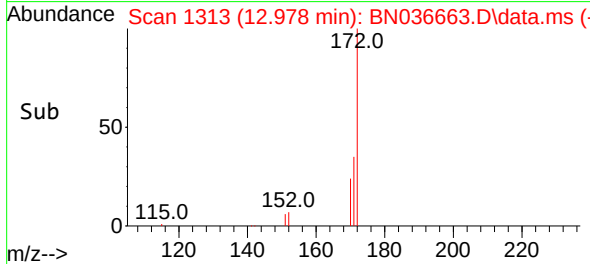
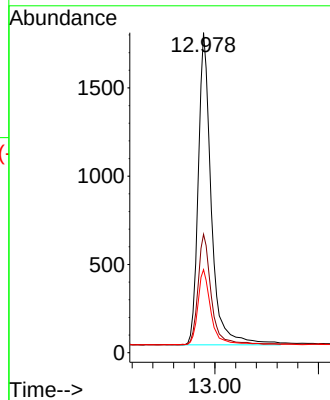
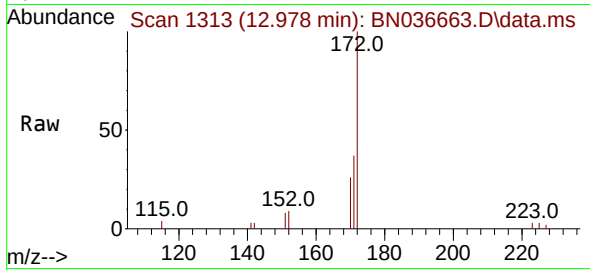




#15
2-Fluorobiphenyl
Concen: 0.333 ng
RT: 12.978 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

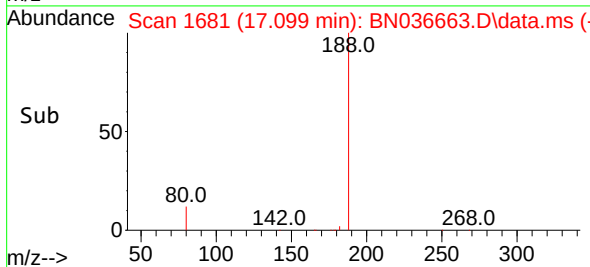
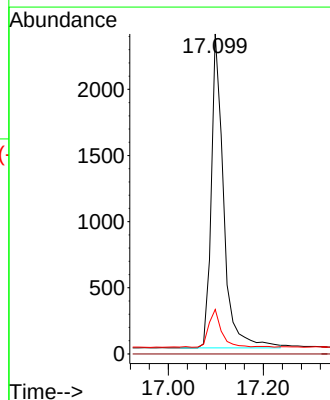
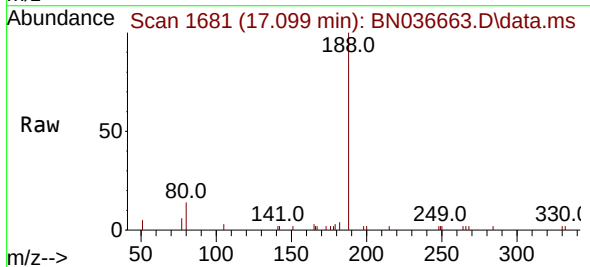
Instrument :
BNA_N
ClientSampleId :
FB02-20250313

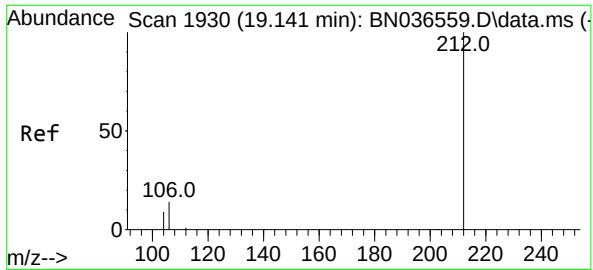
Tgt Ion:172	Resp:	4324
Ion	Ratio	Lower Upper
172	100	
171	37.0	29.5 44.3
170	26.0	20.2 30.4



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

Tgt Ion:188	Resp:	4299
Ion	Ratio	Lower Upper
188	100	
94	0.0	0.0 0.0
80	13.9	8.8 13.2#

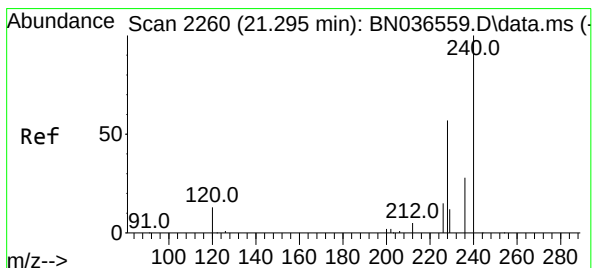
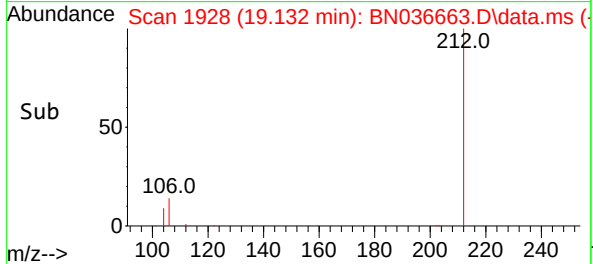
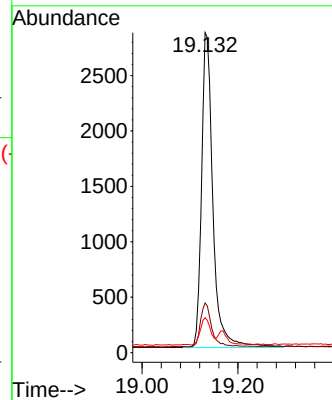
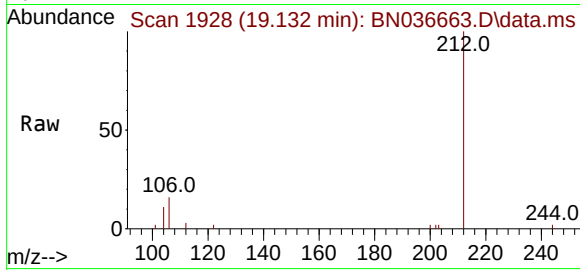




#27
Fluoranthene-d10
Concen: 0.427 ng
RT: 19.132 min Scan# 1930
Delta R.T. -0.009 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

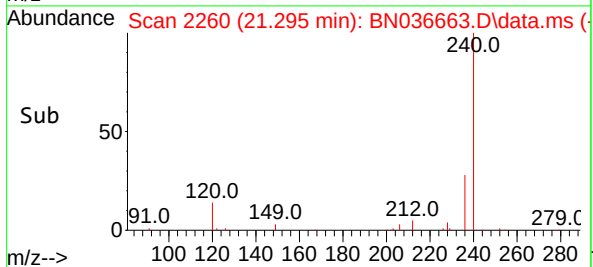
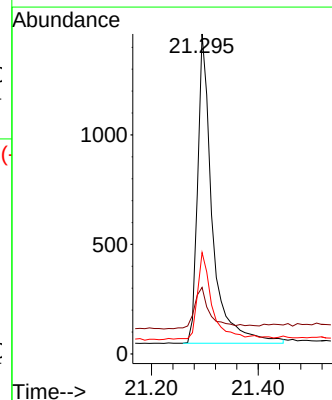
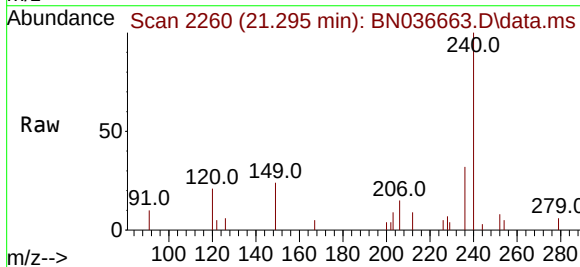
Instrument :
BNA_N
ClientSampleId :
FB02-20250313

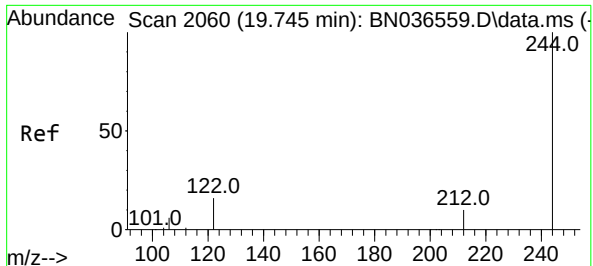
Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.6	11.8	17.6
104	7.9	7.3	10.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. -0.000 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

Tgt Ion	Ratio	Lower	Upper
240	100		
120	20.8	14.6	22.0
236	31.7	24.1	36.1

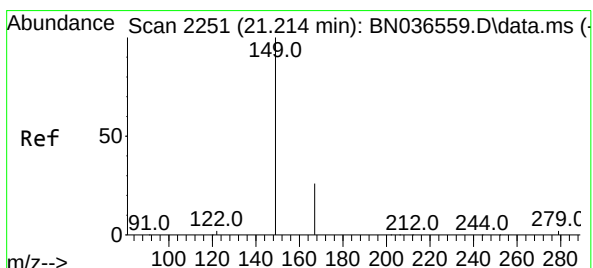
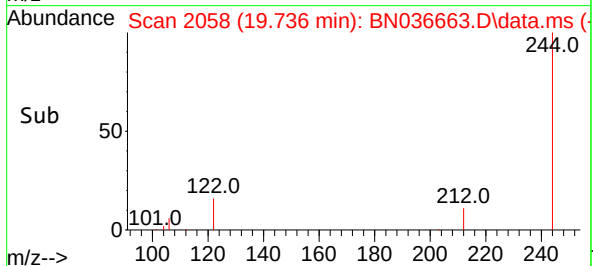
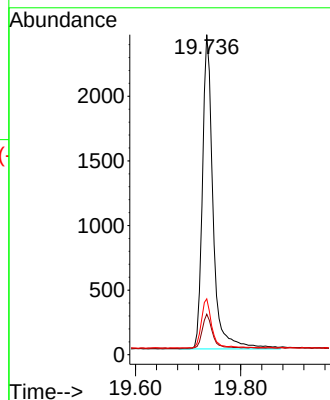
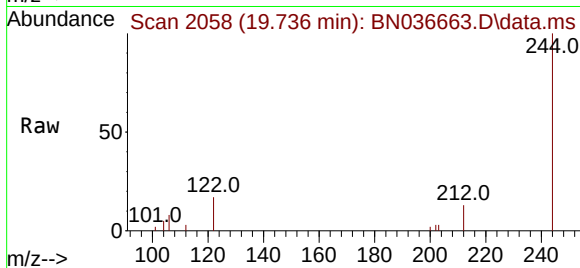




#31
 Terphenyl-d14
 Concen: 0.526 ng
 RT: 19.736 min Scan# 2060
 Delta R.T. -0.009 min
 Lab File: BN036663.D
 Acq: 17 Mar 2025 17:19

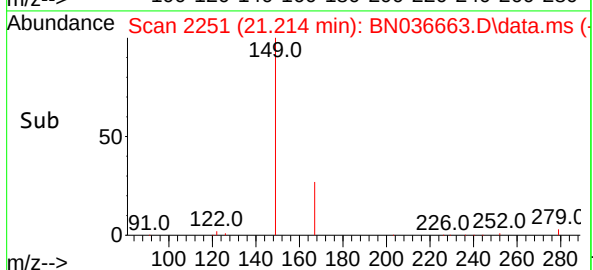
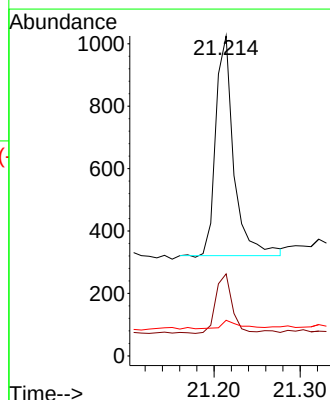
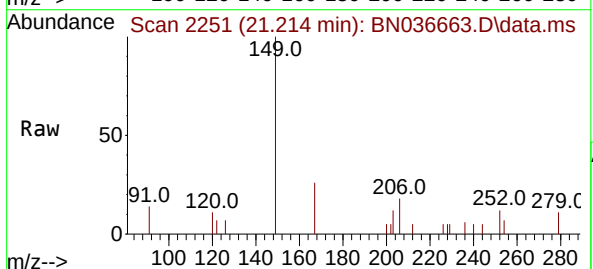
Instrument :
 BNA_N
 ClientSampleId :
 FB02-20250313

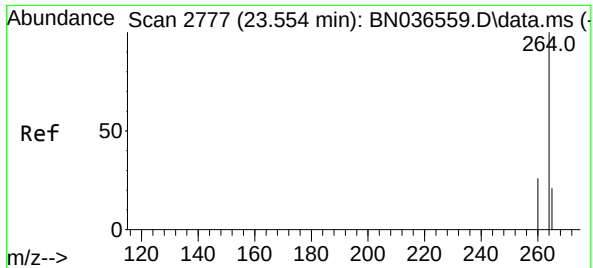
Tgt Ion:244 Resp: 3413
 Ion Ratio Lower Upper
 244 100
 212 12.7 9.6 14.4
 122 17.5 13.9 20.9



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.153 ng
 RT: 21.214 min Scan# 2251
 Delta R.T. -0.000 min
 Lab File: BN036663.D
 Acq: 17 Mar 2025 17:19

Tgt Ion:149 Resp: 1025
 Ion Ratio Lower Upper
 149 100
 167 24.6 20.7 31.1
 279 3.4 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.548 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036663.D

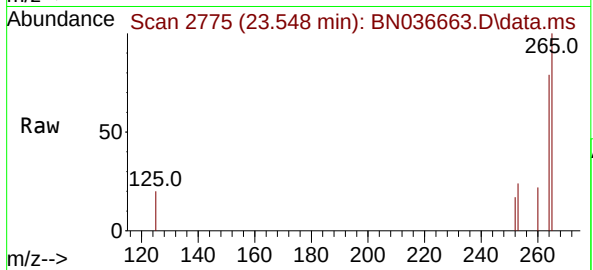
Acq: 17 Mar 2025 17:19

Instrument :

BNA_N

ClientSampleId :

FB02-20250313



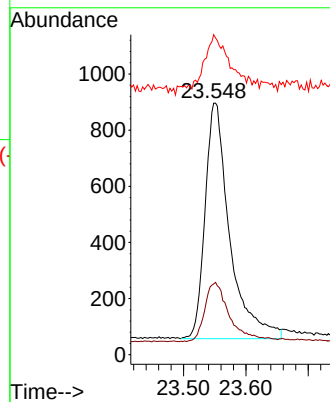
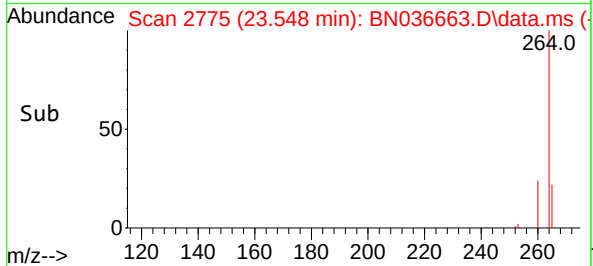
Tgt Ion:264 Resp: 2307

Ion Ratio Lower Upper

264 100

260 28.1 22.6 33.8

265 127.2 88.1 132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	RE131D1-20250313	SDG No.:	Q1582
Lab Sample ID:	Q1582-06	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
BN036664.D	1	03/17/25 08:48	03/17/25 17:55	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	9.00	E	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	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		113%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1390	7.717				
1146-65-2	Naphthalene-d8	3220	10.509				
15067-26-2	Acenaphthene-d10	1820	14.356				
1517-22-2	Phenanthrene-d10	3280	17.099				
1719-03-5	Chrysene-d12	2280	21.295				
1520-96-3	Perylene-d12	2090	23.546				

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\BN031725\
 Data File : BN036664.D
 Acq On : 17 Mar 2025 17:55
 Operator : RC/JU
 Sample : Q1582-06
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE131D1-20250313

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/18/2025
 Supervised By :Jagrut Upadhyay 03/18/2025

Quant Time: Mar 18 00:54:48 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1388	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	3220	0.400	ng	0.00
13) Acenaphthene-d10	14.356	164	1815	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	3277	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	2281	0.400	ng	0.00
35) Perylene-d12	23.546	264	2088	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	457	0.141	ng	0.00
5) Phenol-d6	6.894	99	276	0.069	ng	0.00
8) Nitrobenzene-d5	8.875	82	1004	0.287	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	1266	0.264	ng	0.00
14) 2,4,6-Tribromophenol	15.845	330	270	0.328	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	3280	0.311	ng	0.00
27) Fluoranthene-d10	19.132	212	3419	0.407	ng	0.00
31) Terphenyl-d14	19.736	244	2465	0.451	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.232	88	13781	8.950	ng	96
32) Benzo(a)anthracene	21.277	228	162	0.020	ng	# 45
33) Chrysene	21.331	228	258	0.030	ng	# 54
34) Bis(2-ethylhexyl)phtha...	21.214	149	919	0.163	ng	# 97
41) Benzo(g,h,i)perylene	26.537	276	375m	0.056	ng	

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

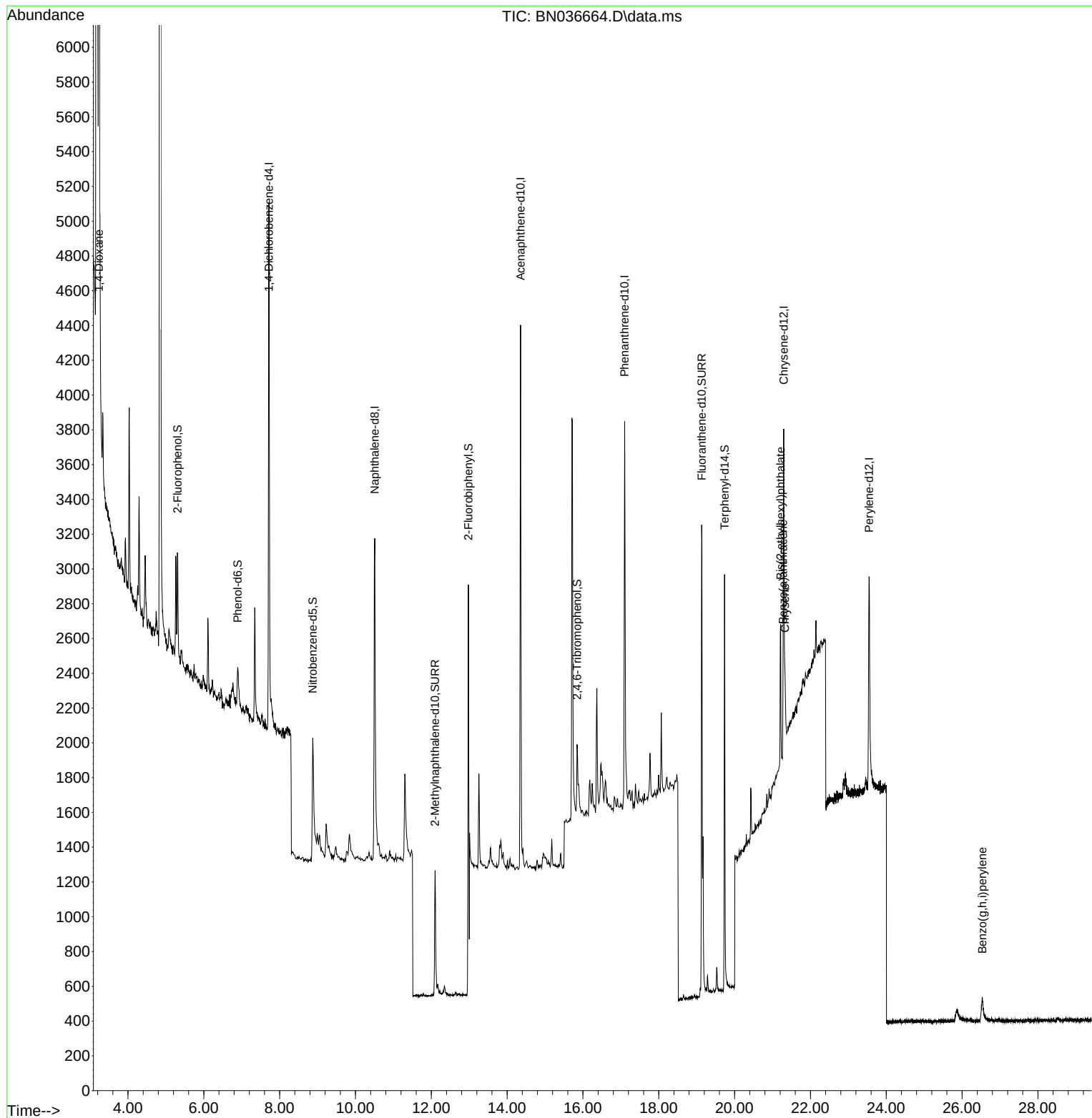
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Data File : BN036664.D
Acq On : 17 Mar 2025 17:55
Operator : RC/JU
Sample : Q1582-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

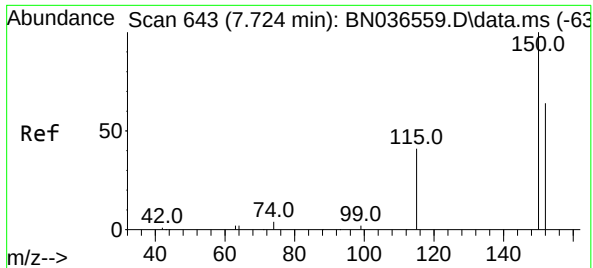
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

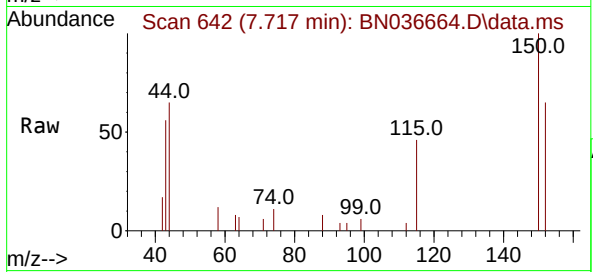
Quant Time: Mar 18 00:54:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

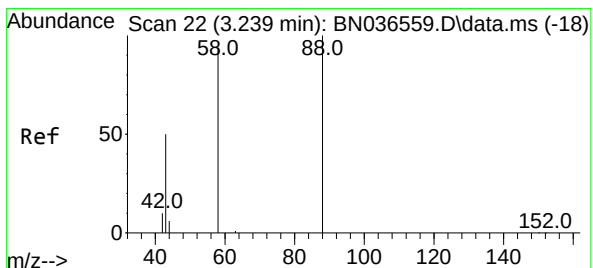
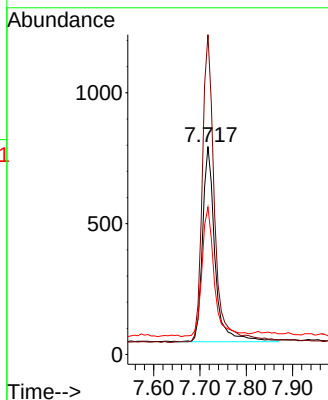
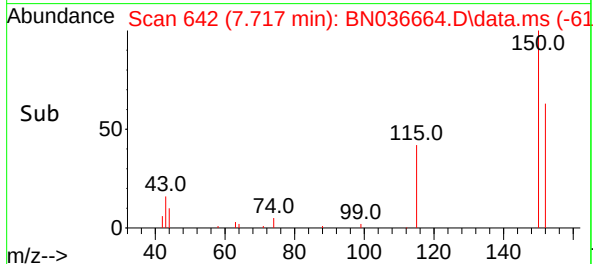
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313



Tgt Ion: 152 Resp: 1388
Ion Ratio Lower Upper
152 100
150 153.7 123.7 185.5
115 70.8 54.3 81.5

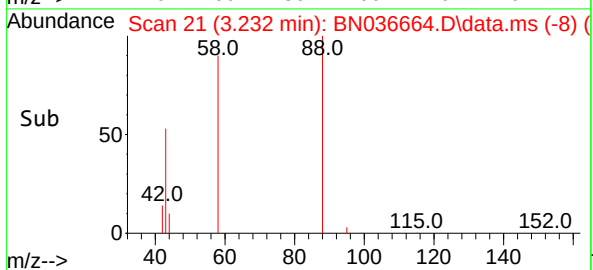
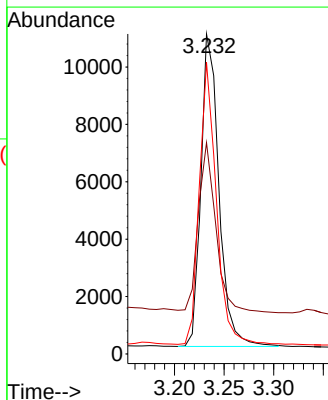
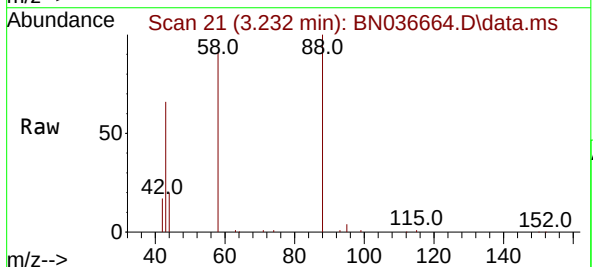
Manual Integrations
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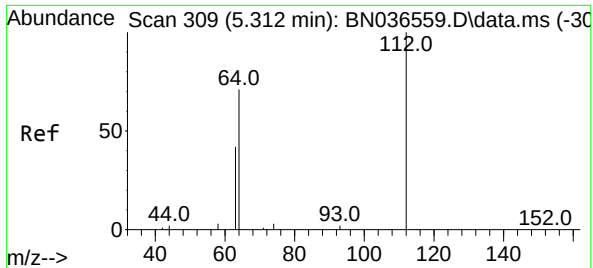
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#2
1,4-Dioxane
Concen: 8.950 ng
RT: 3.232 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

Tgt Ion: 88 Resp: 13781
Ion Ratio Lower Upper
88 100
43 53.2 37.8 56.8
58 85.4 67.4 101.2





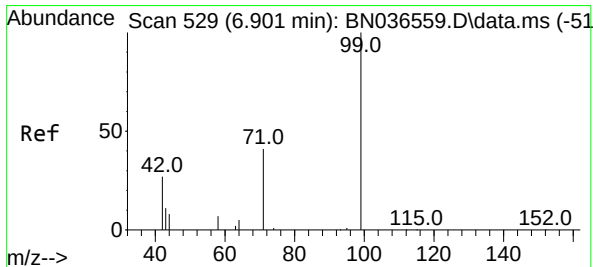
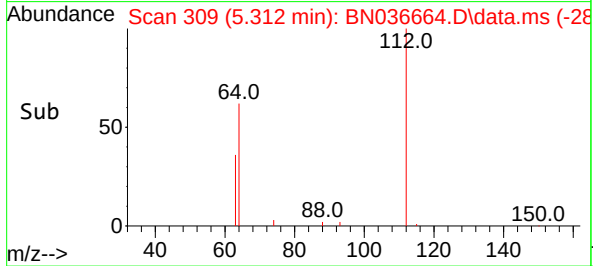
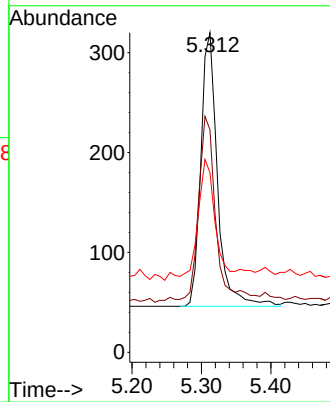
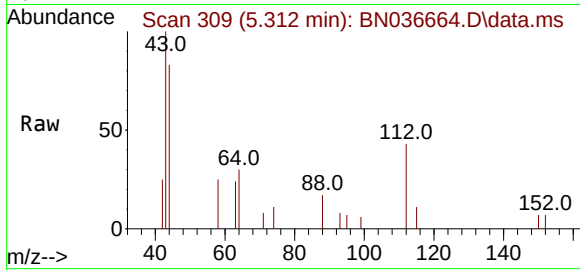
#4
2-Fluorophenol
Concen: 0.141 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313

Tgt Ion: 112 Resp: 45
Ion Ratio Lower Upper
112 100
64 66.7 53.1 79.7
63 47.0 31.8 47.8

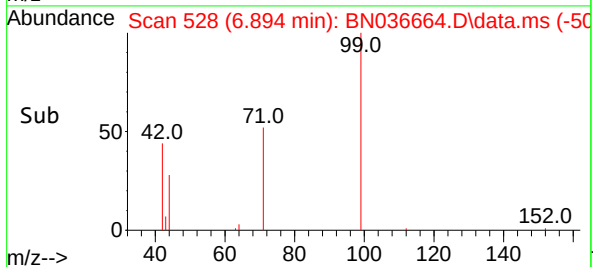
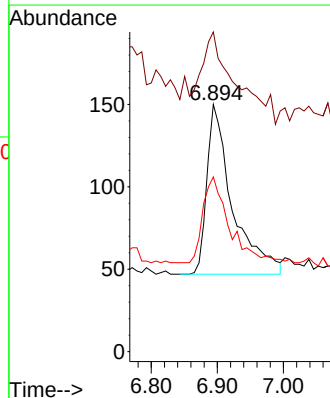
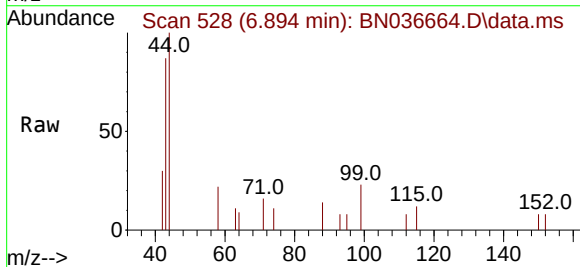
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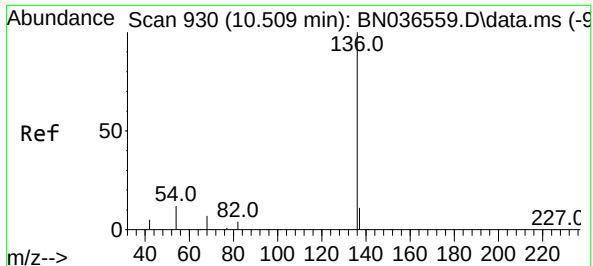
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#5
Phenol-d6
Concen: 0.069 ng
RT: 6.894 min Scan# 528
Delta R.T. -0.007 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

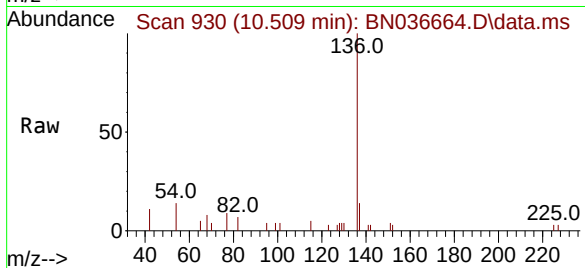
Tgt Ion: 99 Resp: 276
Ion Ratio Lower Upper
99 100
42 51.4 26.5 39.7#
71 55.8 34.1 51.1#





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

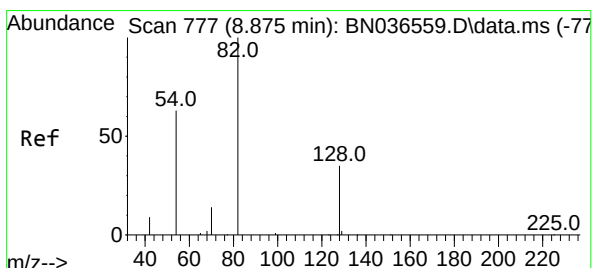
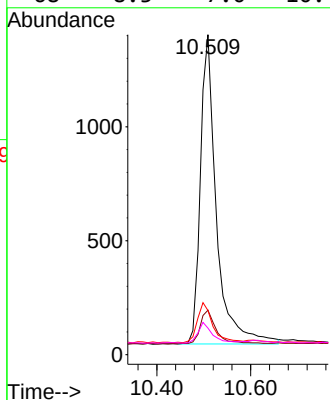
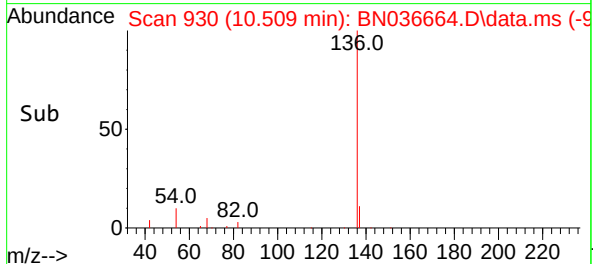
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313



Tgt Ion: 136 Resp: 3220
Ion Ratio Lower Upper
136 100
137 13.9 10.3 15.5
54 13.8 11.5 17.3
68 8.3 7.0 10.4

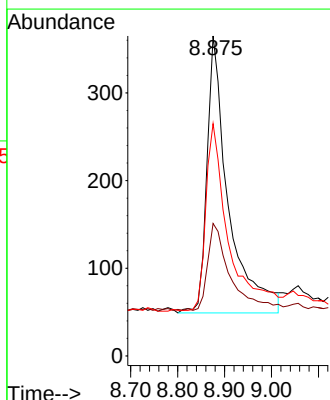
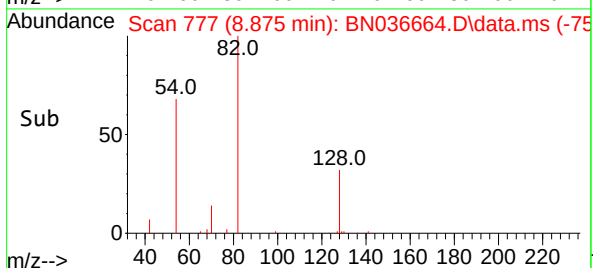
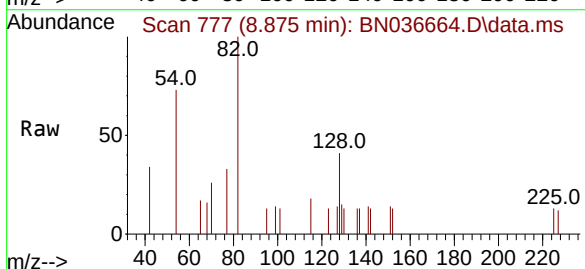
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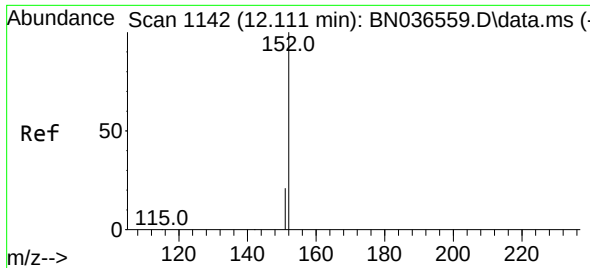
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#8
Nitrobenzene-d5
Concen: 0.287 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

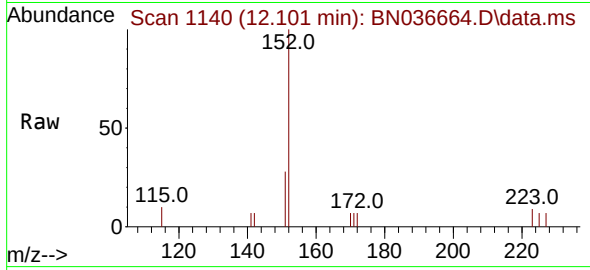
Tgt Ion: 82 Resp: 1004
Ion Ratio Lower Upper
82 100
128 41.4 30.6 45.8
54 72.6 52.2 78.4





#11
2-Methylnaphthalene-d10
Concen: 0.264 ng
RT: 12.101 min Scan# 1140
Delta R.T. -0.010 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

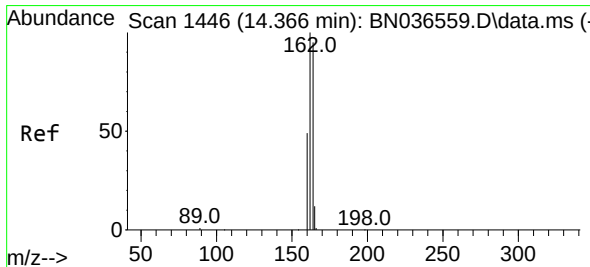
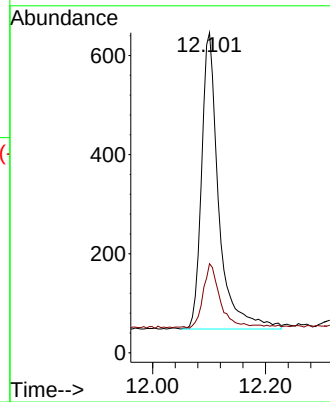
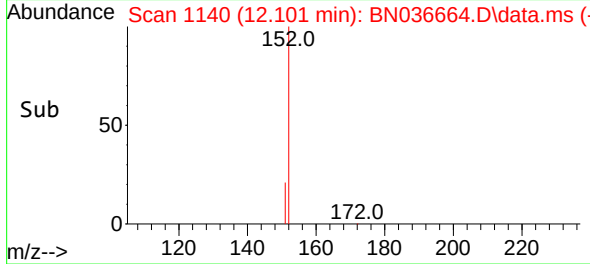
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313



Tgt Ion:152 Resp: 1260
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6

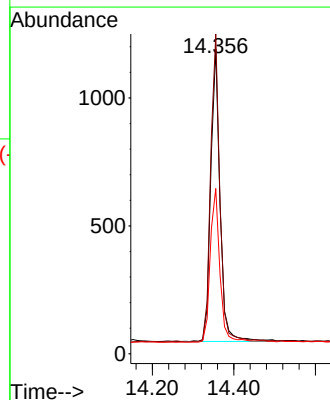
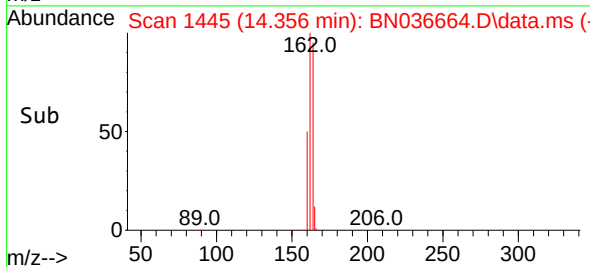
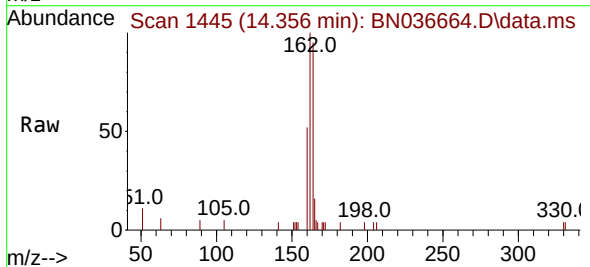
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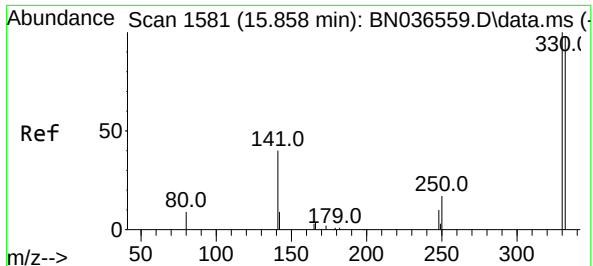
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

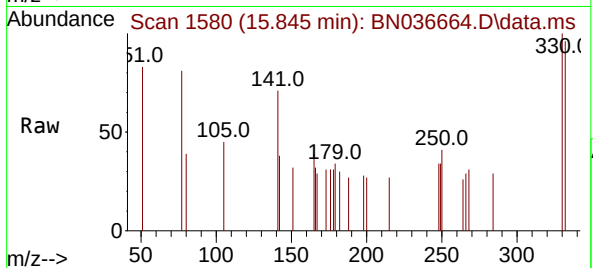
Tgt Ion:164 Resp: 1815
Ion Ratio Lower Upper
164 100
162 104.9 84.2 126.2
160 54.2 42.2 63.2





#14
2,4,6-Tribromophenol
Concen: 0.328 ng
RT: 15.845 min Scan# 11
Delta R.T. -0.012 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

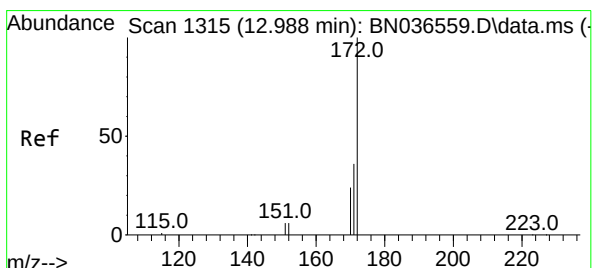
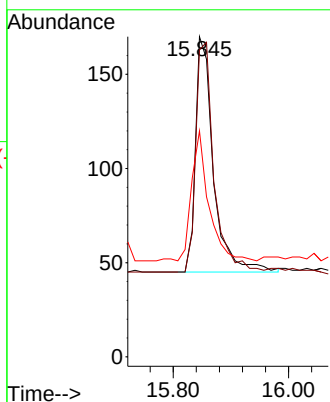
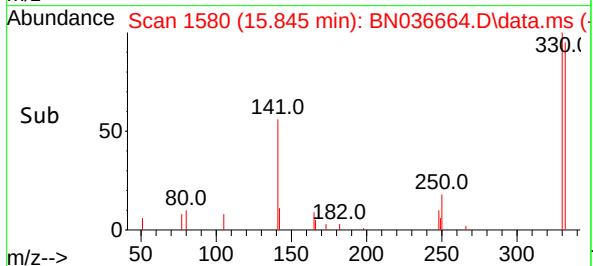
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313



Tgt Ion:330 Resp: 270
Ion Ratio Lower Upper
330 100
332 98.9 75.2 112.8
141 53.0 43.4 65.2

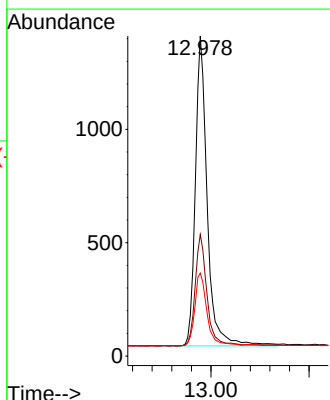
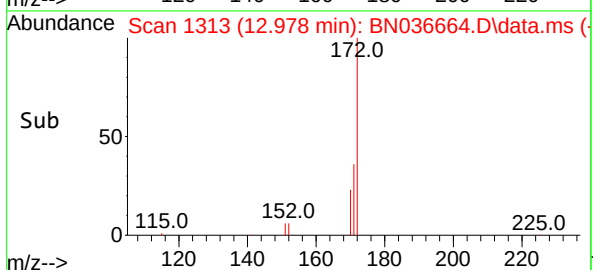
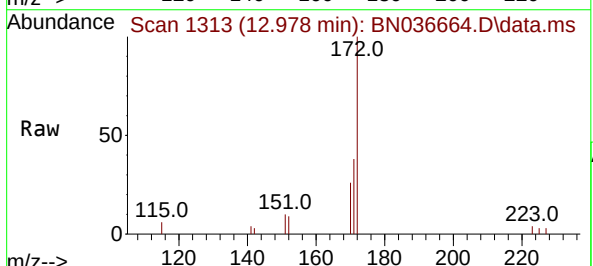
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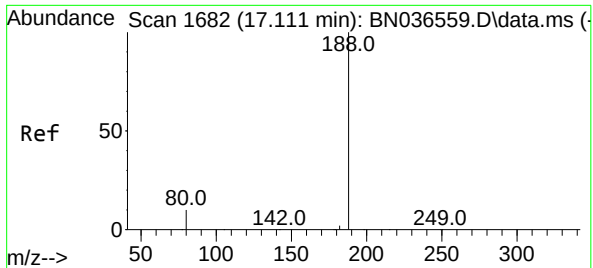
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#15
2-Fluorobiphenyl
Concen: 0.311 ng
RT: 12.978 min Scan# 1313
Delta R.T. -0.010 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

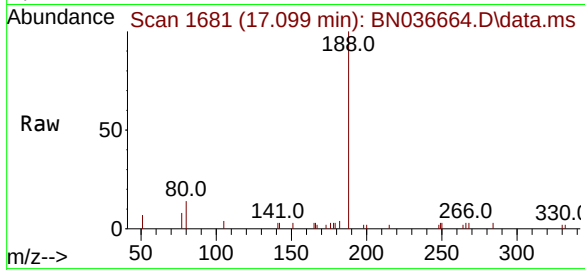
Tgt Ion:172 Resp: 3280
Ion Ratio Lower Upper
172 100
171 38.0 29.5 44.3
170 25.9 20.2 30.4





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 110
Delta R.T. -0.012 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

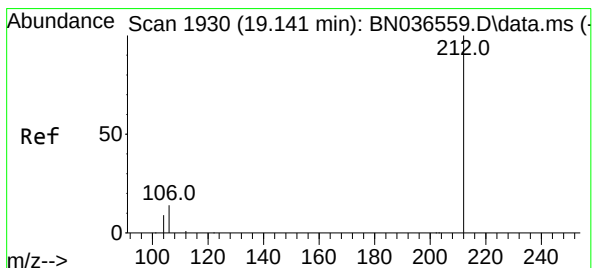
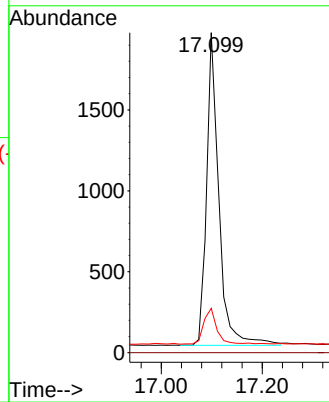
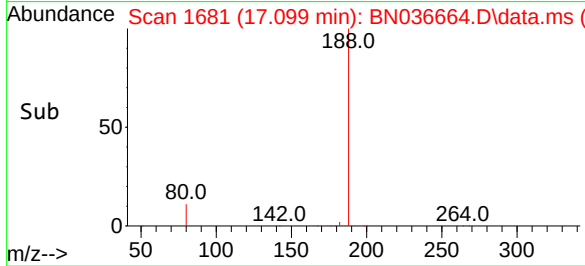
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313



Tgt Ion:188 Resp: 327
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.9 8.8 13.2

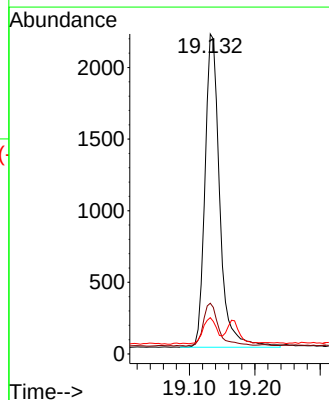
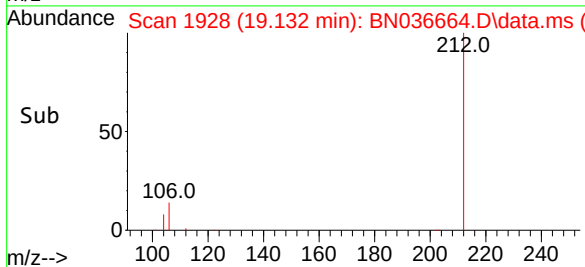
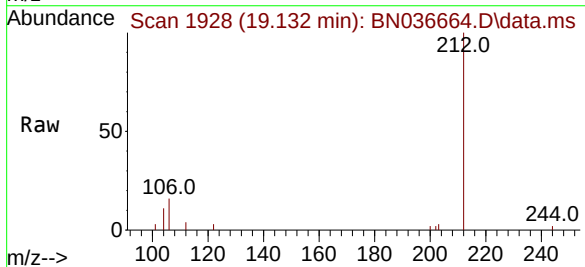
Manual Integrations
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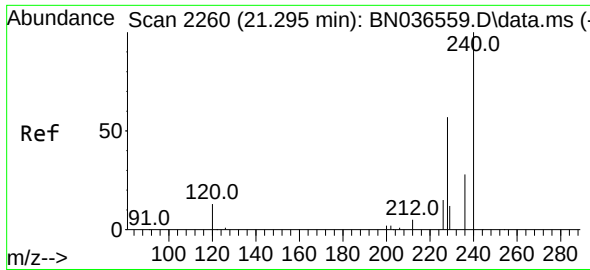
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#27
Fluoranthene-d10
Concen: 0.407 ng
RT: 19.132 min Scan# 1928
Delta R.T. -0.009 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

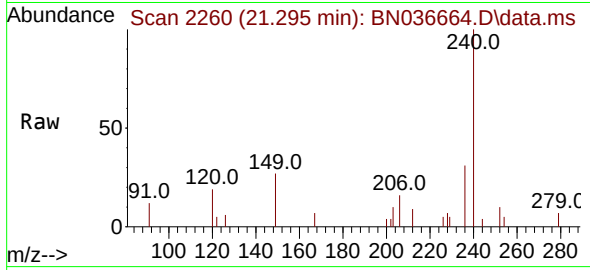
Tgt Ion:212 Resp: 3419
Ion Ratio Lower Upper
212 100
106 14.4 11.8 17.6
104 7.7 7.3 10.9





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

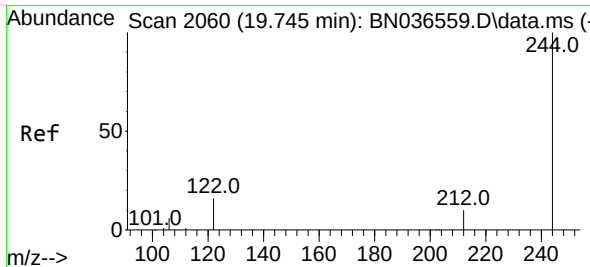
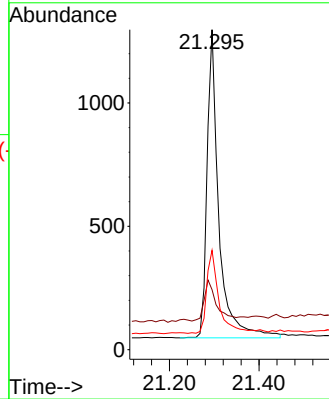
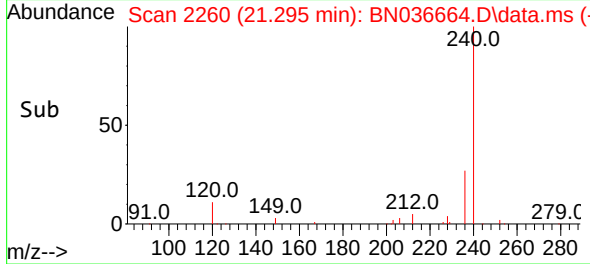
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313



Tgt Ion:240 Resp: 228
Ion Ratio Lower Upper
240 100
120 18.7 14.6 22.0
236 31.1 24.1 36.1

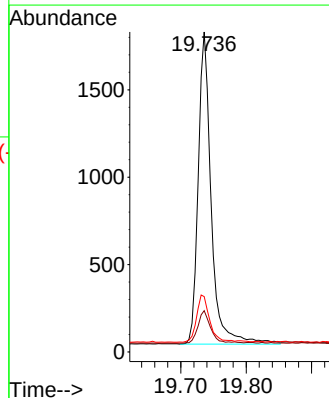
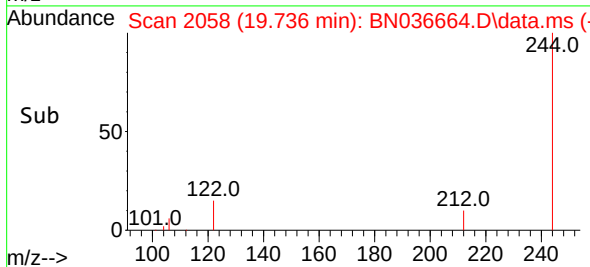
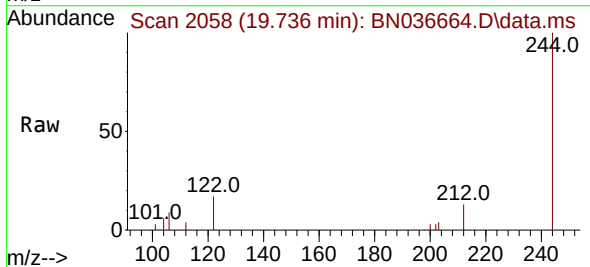
Manual Integrations
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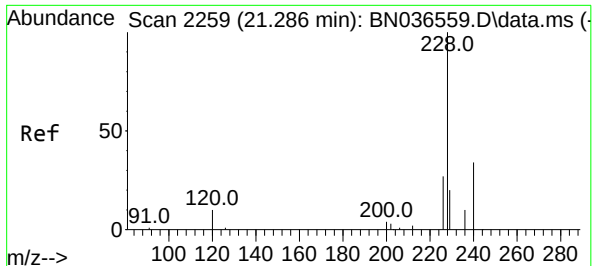
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#31
Terphenyl-d14
Concen: 0.451 ng
RT: 19.736 min Scan# 2058
Delta R.T. -0.009 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

Tgt Ion:244 Resp: 2465
Ion Ratio Lower Upper
244 100
212 12.9 9.6 14.4
122 17.3 13.9 20.9





#32

Benzo(a)anthracene

Concen: 0.020 ng

RT: 21.277 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036664.D

Acq: 17 Mar 2025 17:55

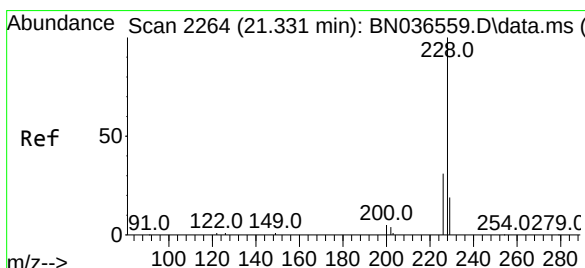
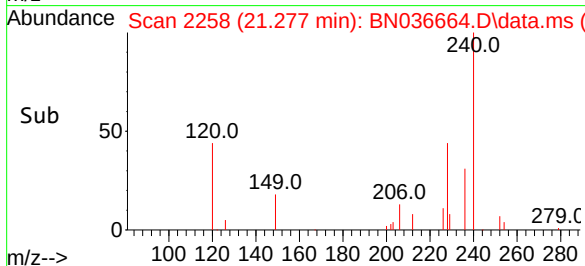
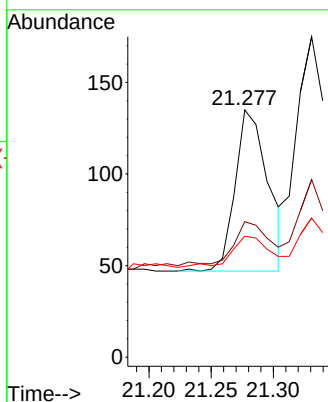
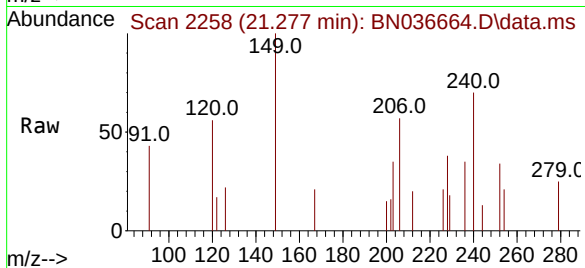
Instrument :

BNA_N

ClientSampleId :

RE131D1-20250313

Tgt Ion:228	Resp:	162
Ion Ratio	Lower	Upper
228	100	
226	54.8	22.5 33.7
229	48.9	16.6 25.0

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

#33

Chrysene

Concen: 0.030 ng

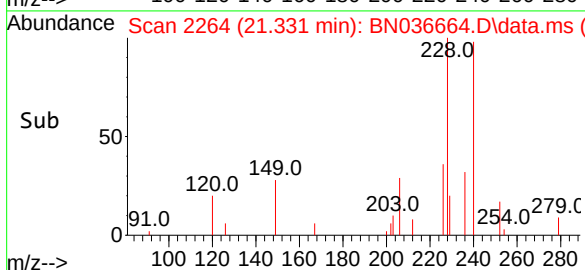
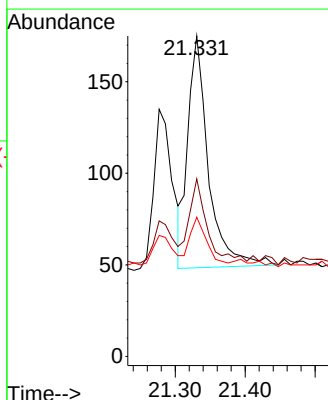
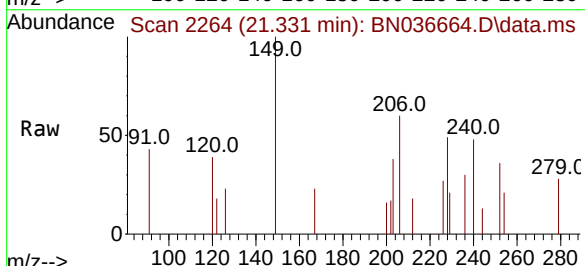
RT: 21.331 min Scan# 2264

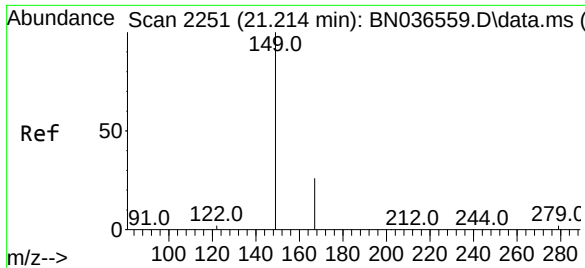
Delta R.T. 0.000 min

Lab File: BN036664.D

Acq: 17 Mar 2025 17:55

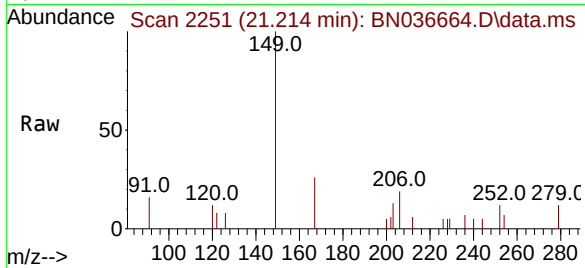
Tgt Ion:228	Resp:	258
Ion Ratio	Lower	Upper
228	100	
226	55.4	25.3 37.9#
229	43.4	15.8 23.8#





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.163 ng
RT: 21.214 min Scan# 2125
Delta R.T. 0.000 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

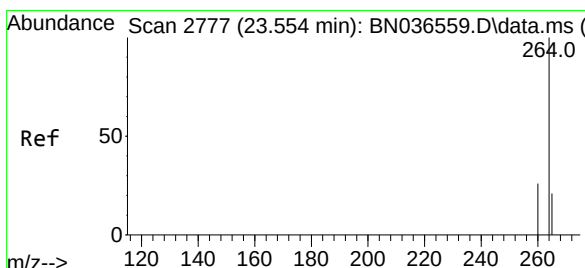
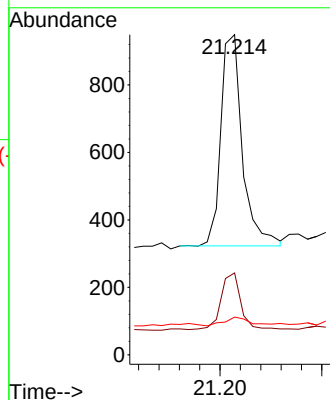
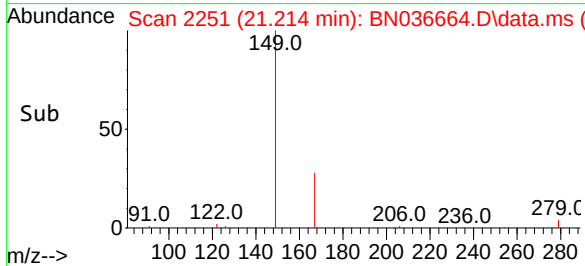
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313



Tgt Ion:149 Resp: 919
Ion Ratio Lower Upper
149 100
167 24.6 20.7 31.1
279 5.5 3.6 5.4

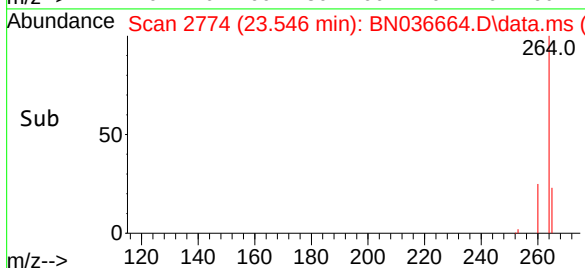
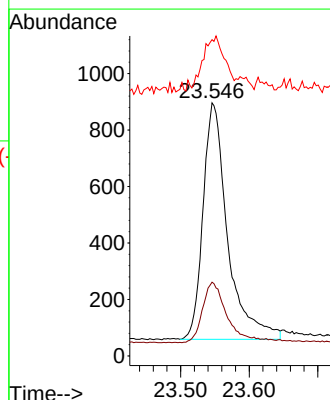
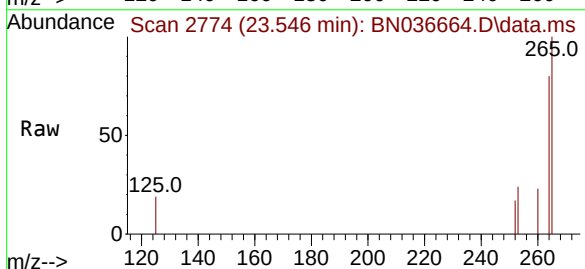
Manual Integrations
APPROVED

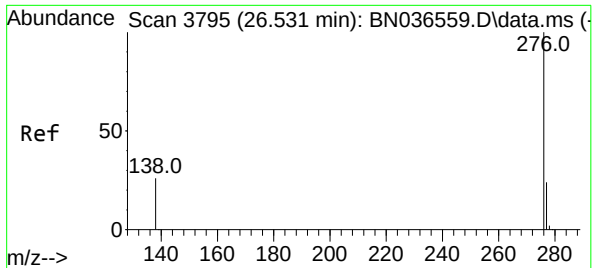
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.546 min Scan# 2774
Delta R.T. -0.009 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

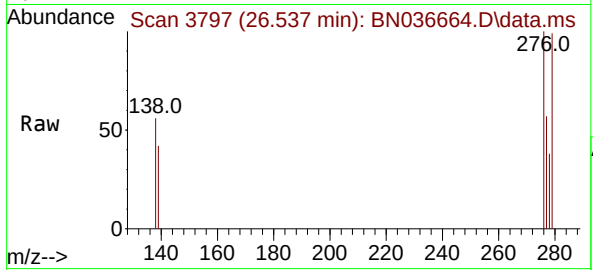
Tgt Ion:264 Resp: 2088
Ion Ratio Lower Upper
264 100
260 29.1 22.6 33.8
265 125.0 88.1 132.1





#41
Benzo(g,h,i)perylene
Concen: 0.056 ng m
RT: 26.537 min Scan# 31
Delta R.T. 0.006 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

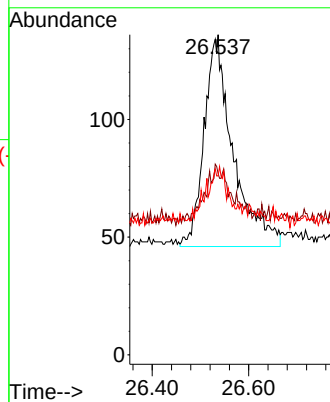
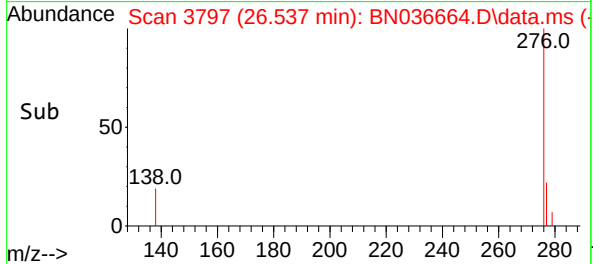
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313



Tgt Ion: 276 Resp: 379
Ion Ratio Lower Upper
276 100
277 56.6 22.2 33.4
138 55.9 24.1 36.1

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	RE131D1-20250313DL	SDG No.:	Q1582
Lab Sample ID:	Q1582-06DL	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
BN036685.D	5	03/17/25 08:48	03/18/25 10:34	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	9.70	D	0.35	1.00	1.00	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		74%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		115%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.28		53 - 106		69%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.64	*	58 - 132		160%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1660		7.717			
1146-65-2	Naphthalene-d8	3780		10.509			
15067-26-2	Acenaphthene-d10	2380		14.355			
1517-22-2	Phenanthrene-d10	4560		17.099			
1719-03-5	Chrysene-d12	3010		21.295			
1520-96-3	Perylene-d12	2750		23.543			

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\BN031825\
Data File : BN036685.D
Acq On : 18 Mar 2025 10:34
Operator : RC/JU
Sample : Q1582-06DL 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313DL

Quant Time: Mar 18 11:02:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

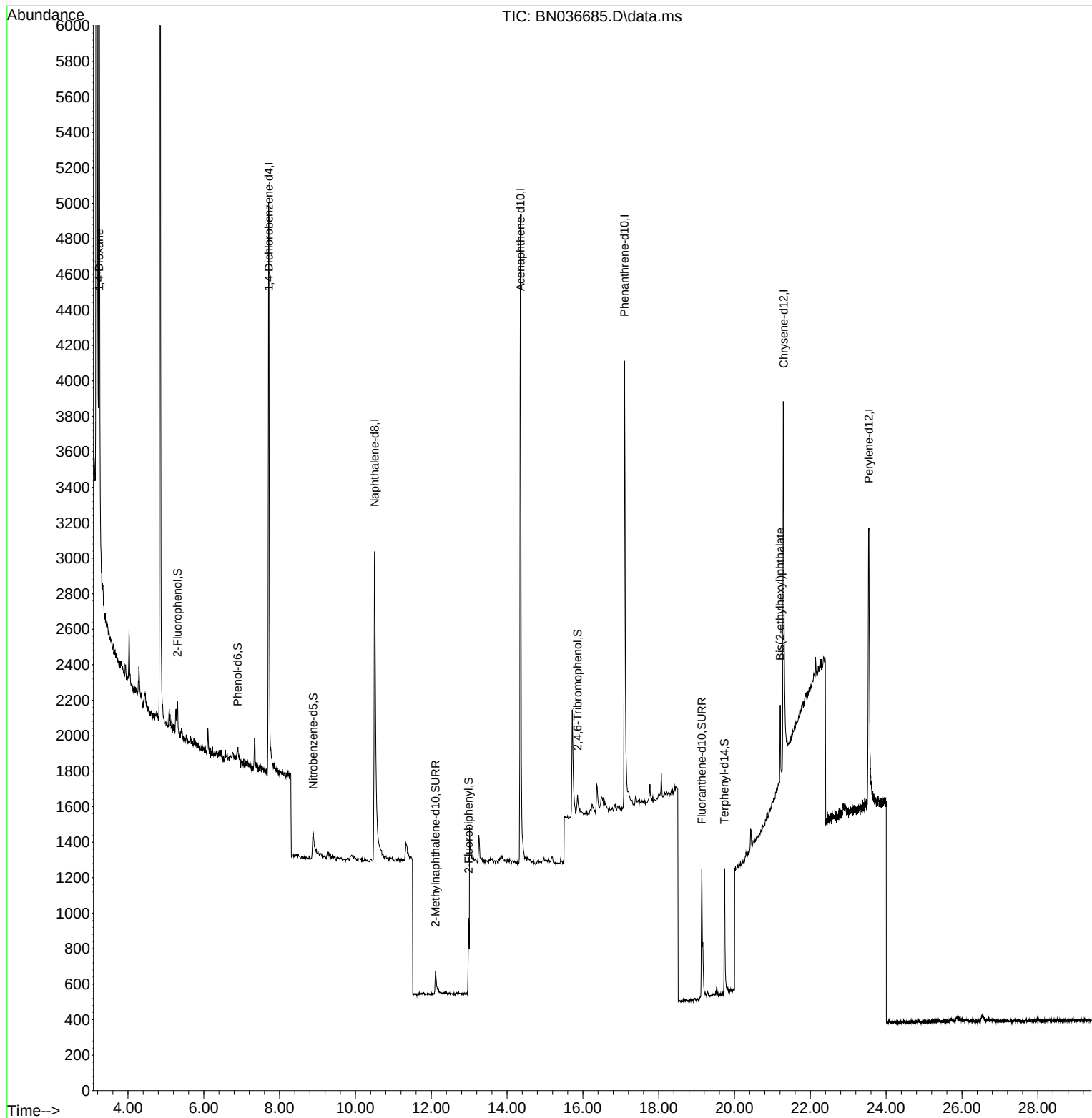
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1658	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	3783	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	2382	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	4560	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	3005	0.400	ng	0.00
35) Perylene-d12	23.543	264	2748	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	123	0.032	ng	0.00
5) Phenol-d6	6.894	99	100	0.021	ng	0.00
8) Nitrobenzene-d5	8.886	82	261	0.063	ng	0.01
11) 2-Methylnaphthalene-d10	12.116	152	334	0.059	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	83	0.077	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	759	0.055	ng	0.00
27) Fluoranthene-d10	19.136	212	1076	0.092	ng	0.00
31) Terphenyl-d14	19.736	244	920	0.128	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	3545	1.927	ng	93
34) Bis(2-ethylhexyl)phtha...	21.205	149	517	0.069	ng	# 88

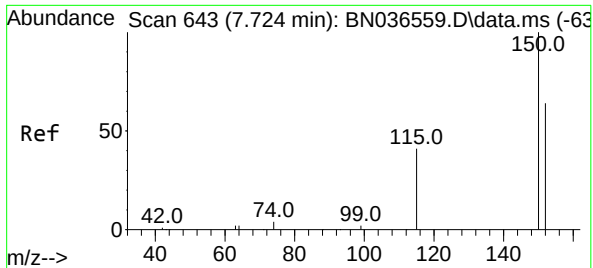
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
Data File : BN036685.D
Acq On : 18 Mar 2025 10:34
Operator : RC/JU
Sample : Q1582-06DL 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313DL

Quant Time: Mar 18 11:02:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

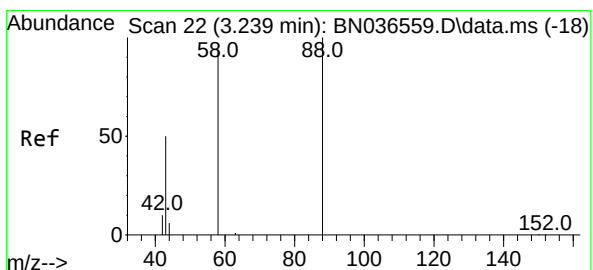
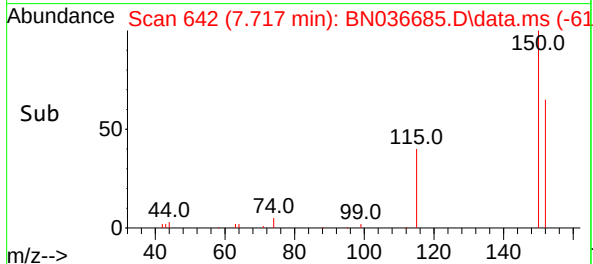
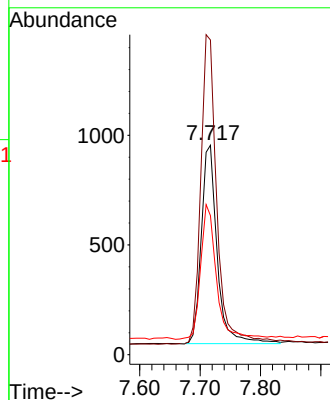
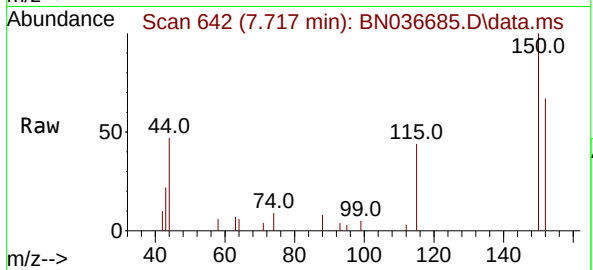




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

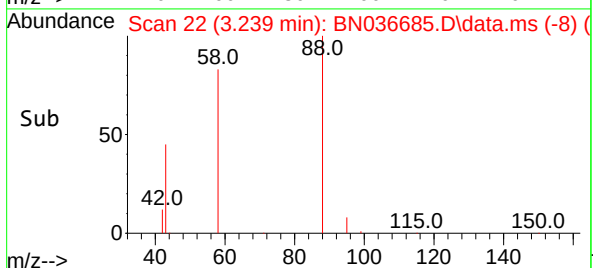
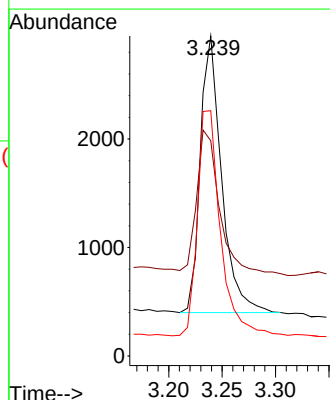
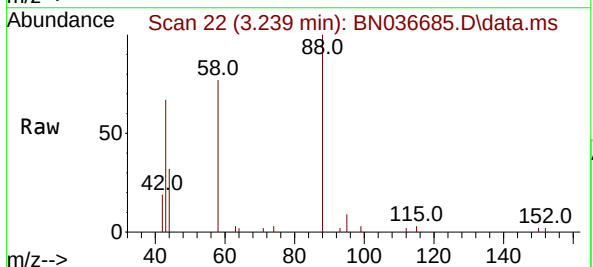
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313DL

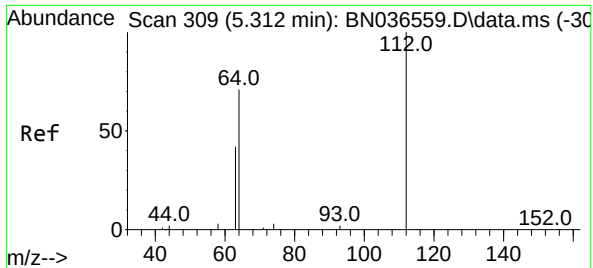
Tgt Ion:152 Resp: 1658
Ion Ratio Lower Upper
152 100
150 150.3 123.7 185.5
115 66.4 54.3 81.5



#2
1,4-Dioxane
Concen: 1.927 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

Tgt Ion: 88 Resp: 3545
Ion Ratio Lower Upper
88 100
43 54.6 37.8 56.8
58 88.0 67.4 101.2

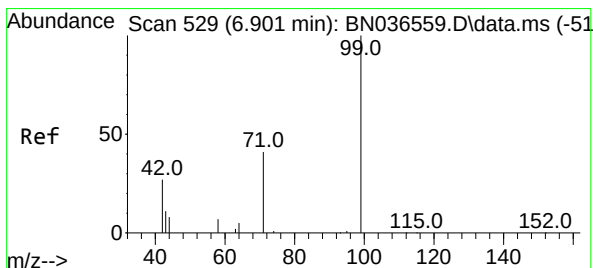
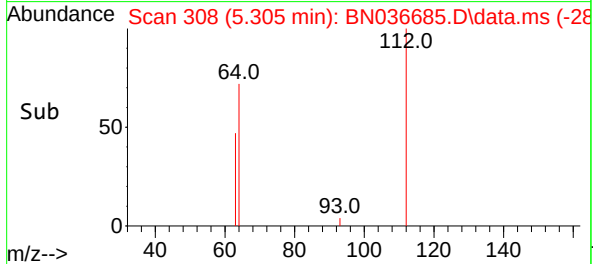
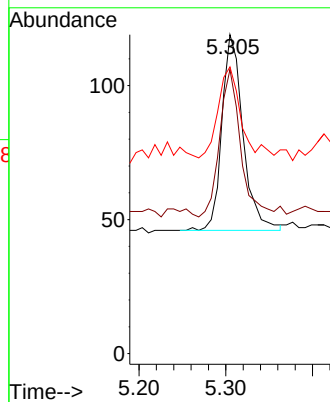
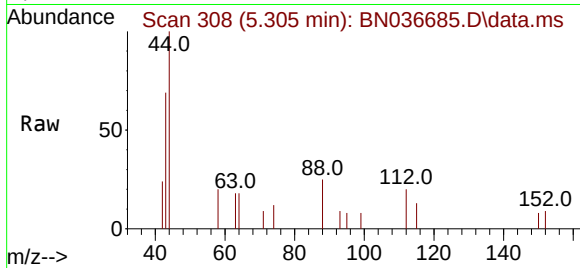




#4
2-Fluorophenol
Concen: 0.032 ng
RT: 5.305 min Scan# 309
Delta R.T. -0.007 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

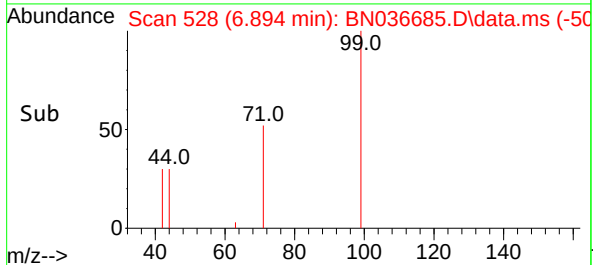
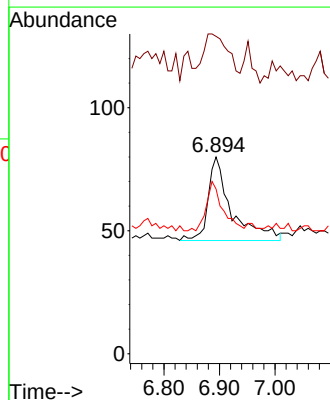
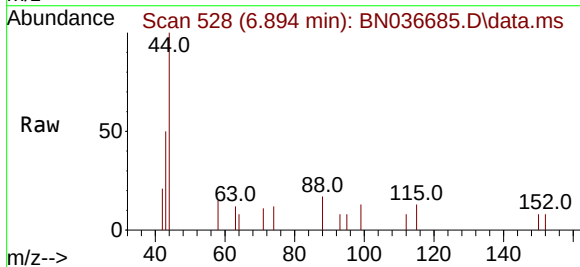
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313DL

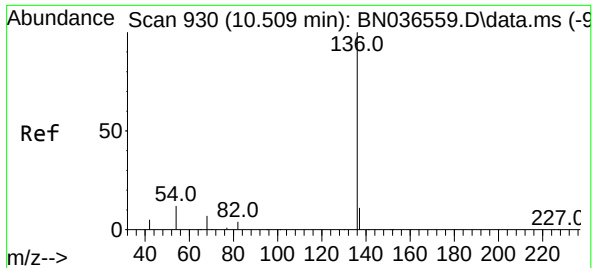
Tgt Ion:112 Resp: 123
Ion Ratio Lower Upper
112 100
64 76.4 53.1 79.7
63 58.5 31.8 47.8#



#5
Phenol-d6
Concen: 0.021 ng
RT: 6.894 min Scan# 528
Delta R.T. -0.007 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

Tgt Ion: 99 Resp: 100
Ion Ratio Lower Upper
99 100
42 49.0 26.5 39.7#
71 44.0 34.1 51.1

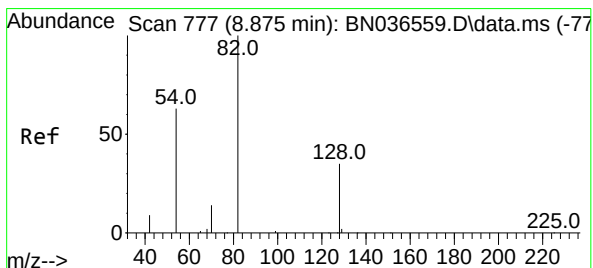
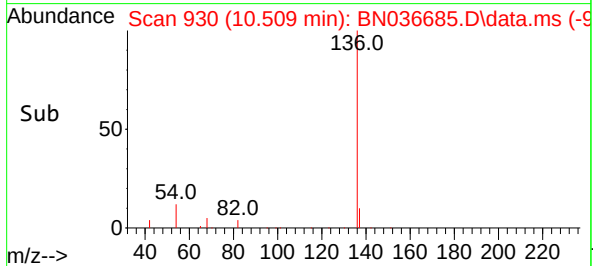
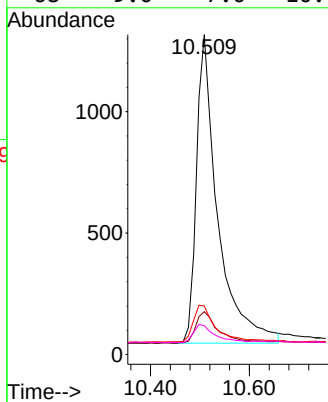
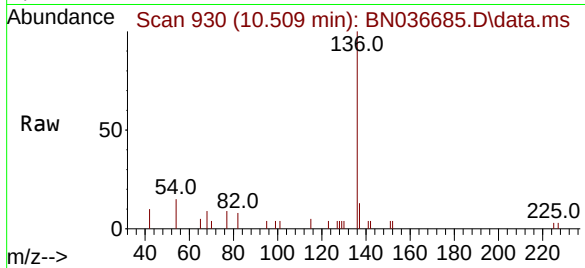




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

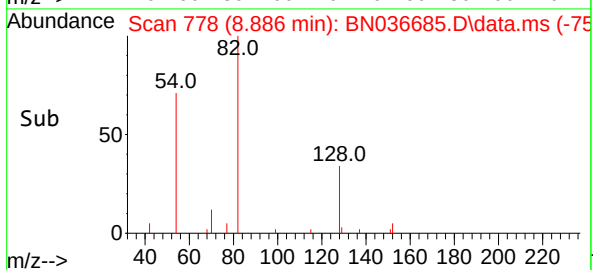
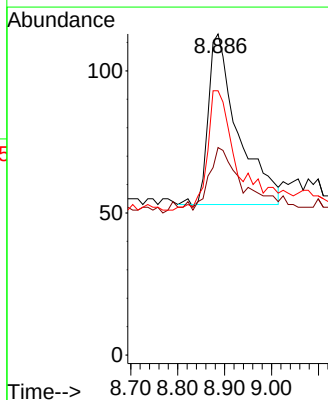
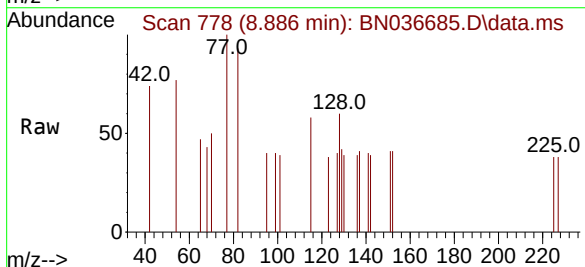
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313DL

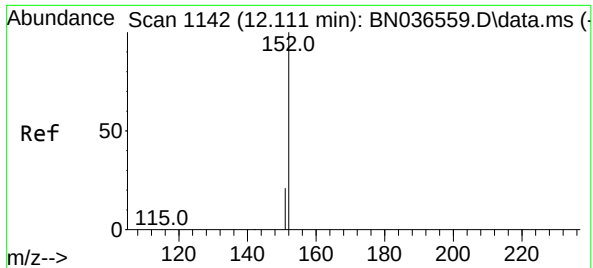
Tgt Ion:	136	Resp:	3783
Ion	Ratio	Lower	Upper
136	100		
137	13.4	10.3	15.5
54	15.2	11.5	17.3
68	9.0	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.063 ng
RT: 8.886 min Scan# 778
Delta R.T. 0.011 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

Tgt Ion:	82	Resp:	261
Ion	Ratio	Lower	Upper
82	100		
128	64.6	30.6	45.8#
54	82.3	52.2	78.4#

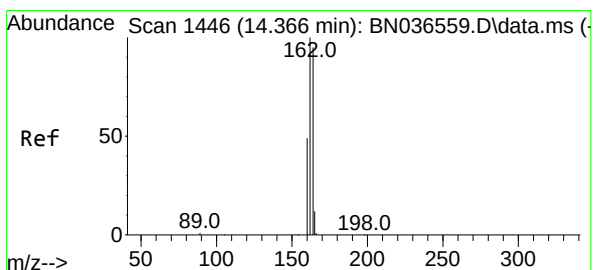
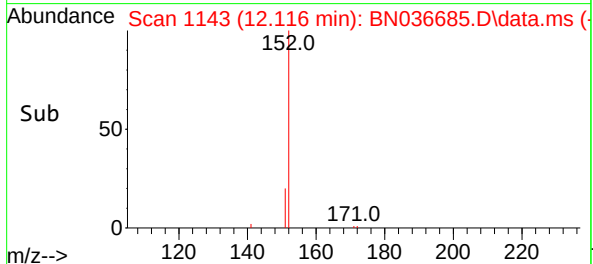
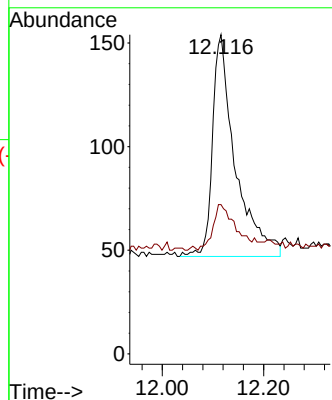
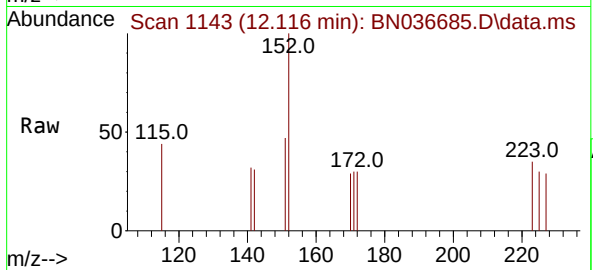




#11
2-Methylnaphthalene-d10
Concen: 0.059 ng
RT: 12.116 min Scan# 1143
Delta R.T. 0.005 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

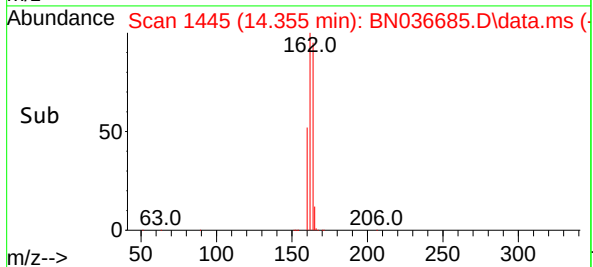
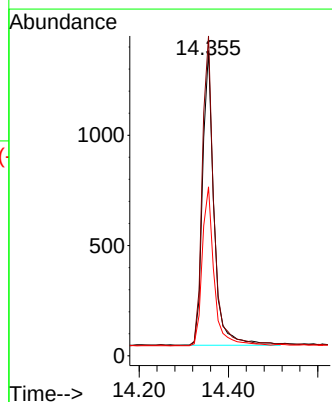
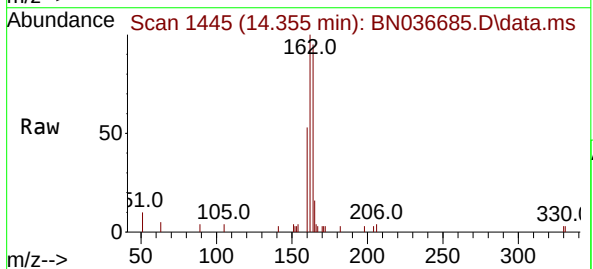
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313DL

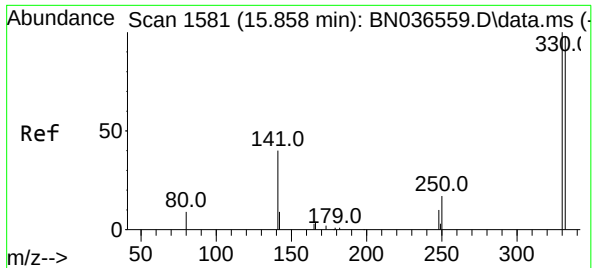
Tgt Ion:152 Resp: 334
Ion Ratio Lower Upper
152 100
151 20.1 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

Tgt Ion:164 Resp: 2382
Ion Ratio Lower Upper
164 100
162 104.8 84.2 126.2
160 55.4 42.2 63.2

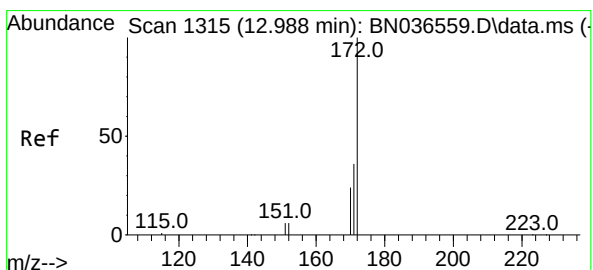
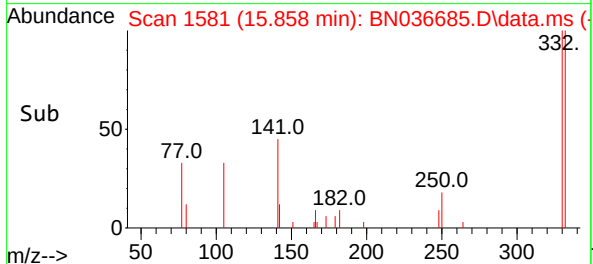
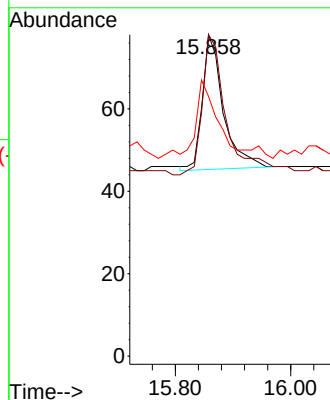
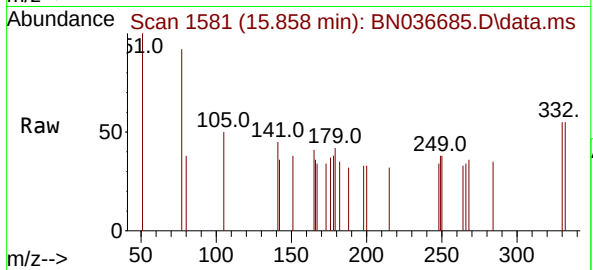




#14
2,4,6-Tribromophenol
Concen: 0.077 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

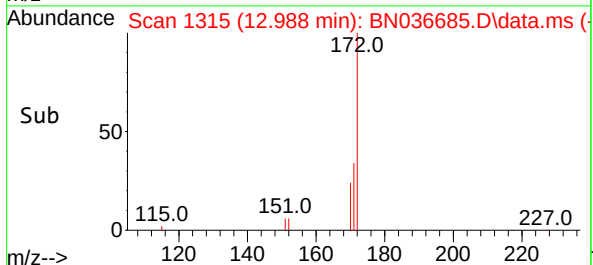
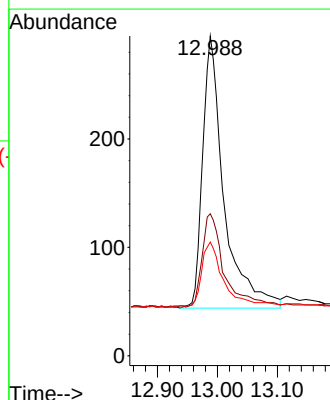
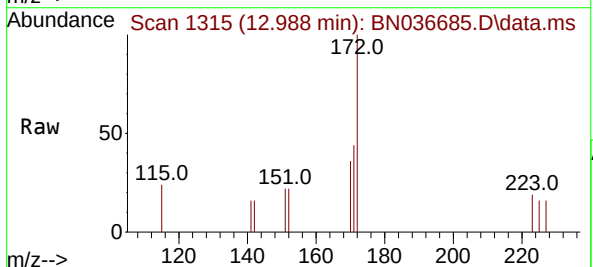
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313DL

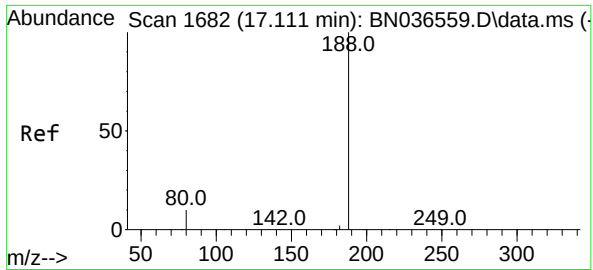
Tgt Ion:330 Resp: 83
Ion Ratio Lower Upper
330 100
332 119.3 75.2 112.8#
141 61.4 43.4 65.2



#15
2-Fluorobiphenyl
Concen: 0.055 ng
RT: 12.988 min Scan# 1315
Delta R.T. 0.000 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

Tgt Ion:172 Resp: 759
Ion Ratio Lower Upper
172 100
171 44.4 29.5 44.3#
170 35.6 20.2 30.4#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN036685.D

Acq: 18 Mar 2025 10:34

Instrument :

BNA_N

ClientSampleId :

RE131D1-20250313DL

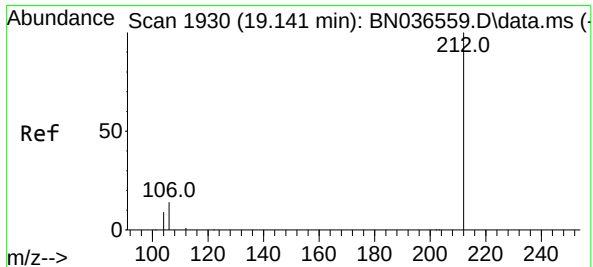
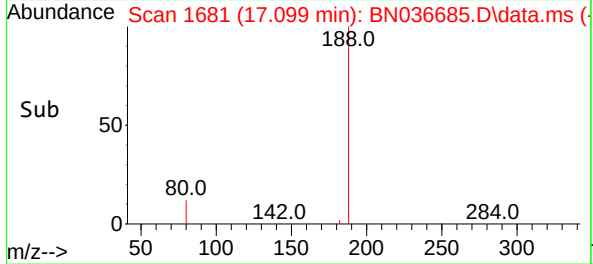
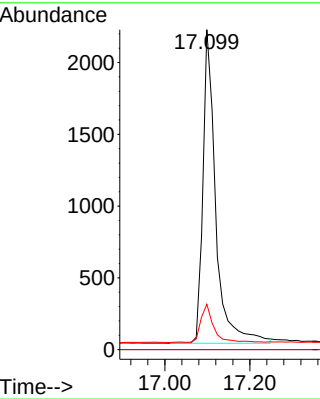
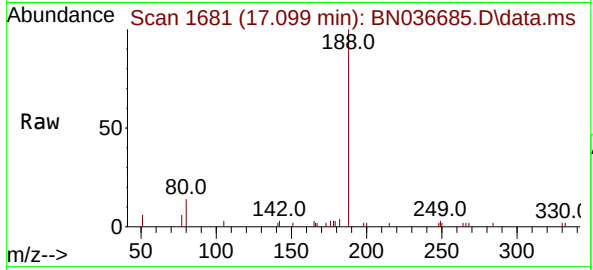
Tgt Ion:188 Resp: 4560

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.2 8.8 13.2#



#27

Fluoranthene-d10

Concen: 0.092 ng

RT: 19.136 min Scan# 1929

Delta R.T. -0.005 min

Lab File: BN036685.D

Acq: 18 Mar 2025 10:34

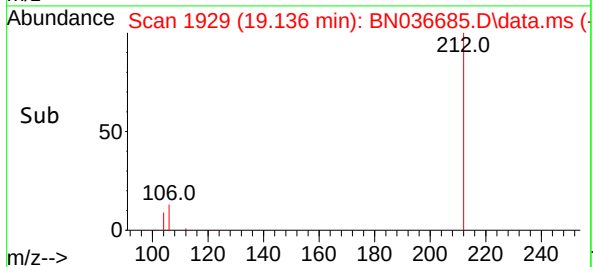
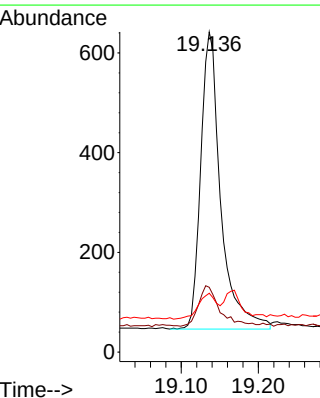
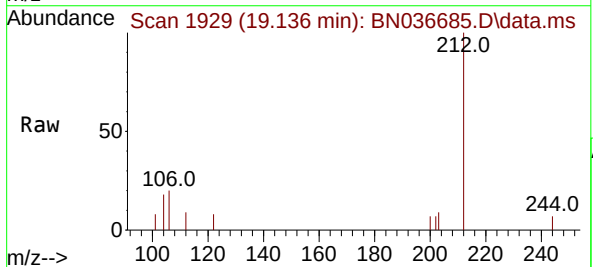
Tgt Ion:212 Resp: 1076

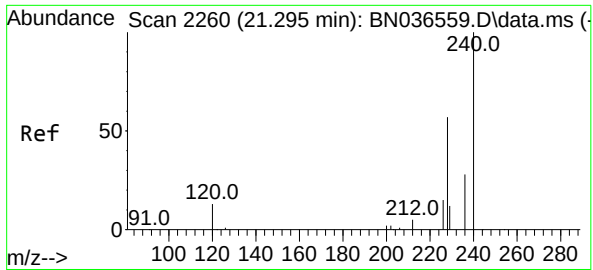
Ion Ratio Lower Upper

212 100

106 14.3 11.8 17.6

104 8.0 7.3 10.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036685.D

Acq: 18 Mar 2025 10:34

Instrument :

BNA_N

ClientSampleId :

RE131D1-20250313DL

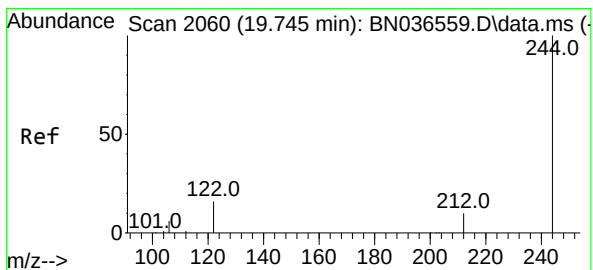
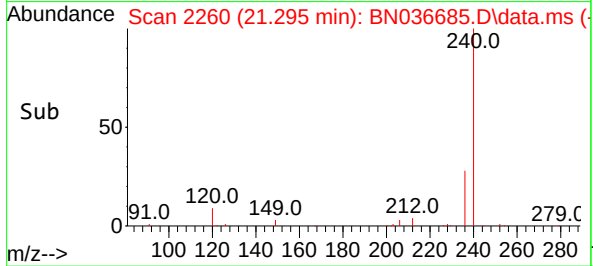
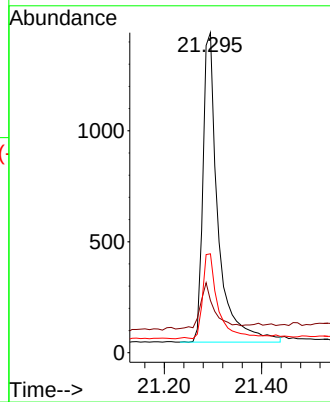
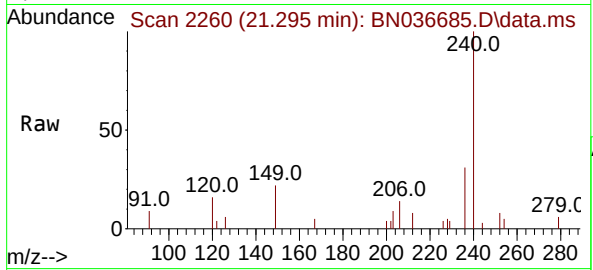
Tgt Ion:240 Resp: 3005

Ion Ratio Lower Upper

240 100

120 16.3 14.6 22.0

236 30.9 24.1 36.1



#31

Terphenyl-d14

Concen: 0.128 ng

RT: 19.736 min Scan# 2058

Delta R.T. -0.009 min

Lab File: BN036685.D

Acq: 18 Mar 2025 10:34

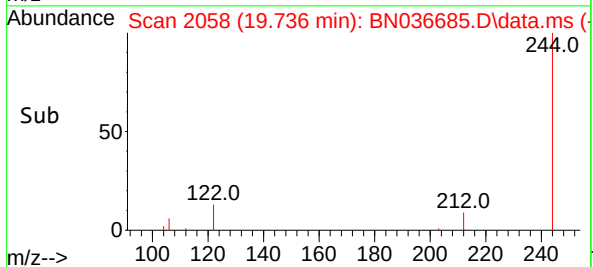
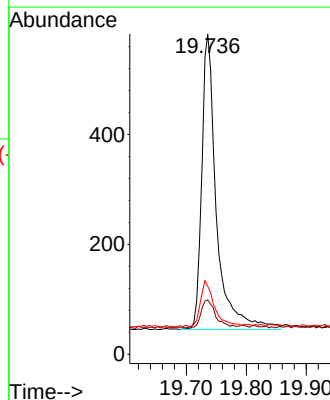
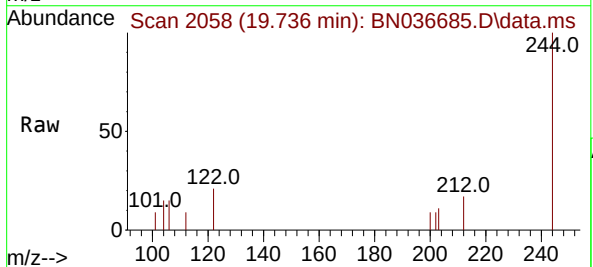
Tgt Ion:244 Resp: 920

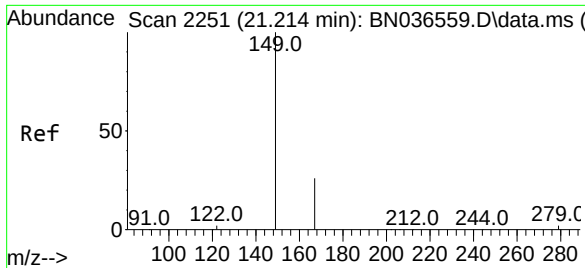
Ion Ratio Lower Upper

244 100

212 17.0 9.6 14.4#

122 21.3 13.9 20.9#

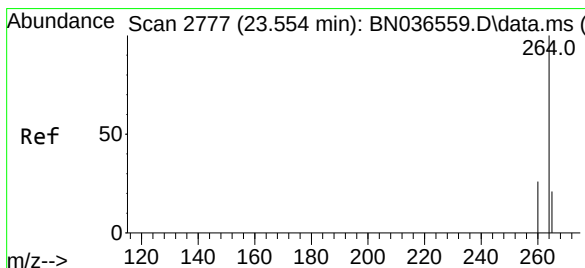
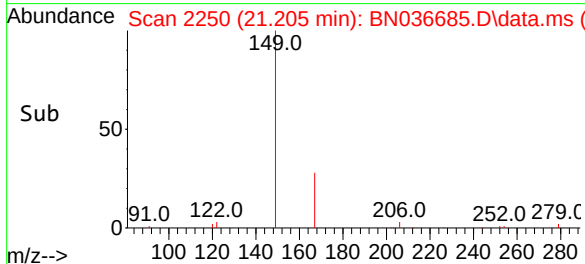
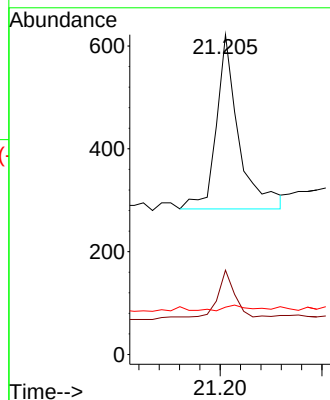
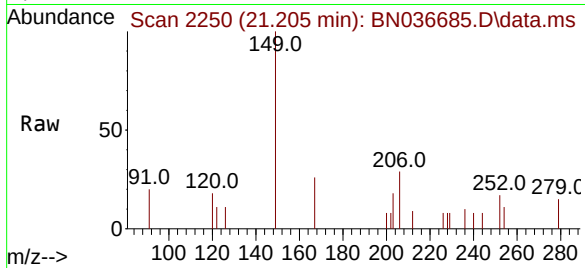




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.069 ng
RT: 21.205 min Scan# 2117
Delta R.T. -0.009 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

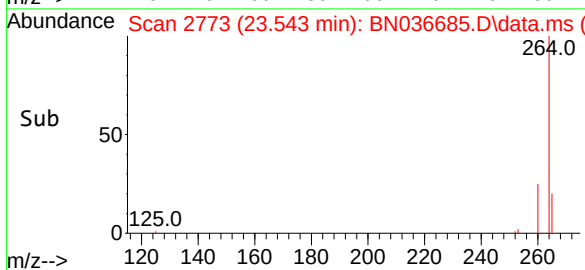
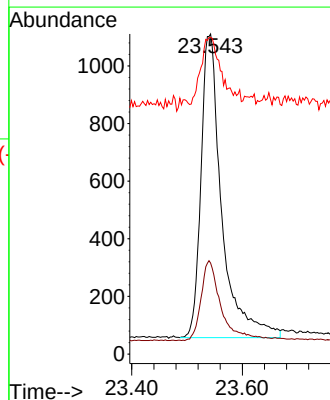
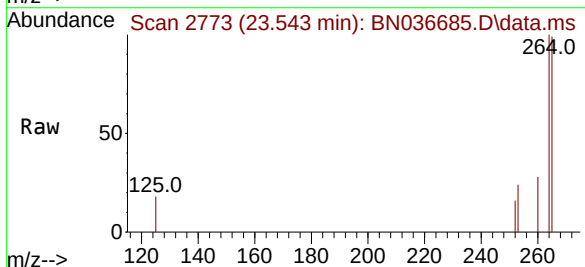
Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313DL

Tgt Ion:149 Resp: 517
Ion Ratio Lower Upper
149 100
167 19.3 20.7 31.1#
279 2.5 3.6 5.4#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.543 min Scan# 2773
Delta R.T. -0.012 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

Tgt Ion:264 Resp: 2748
Ion Ratio Lower Upper
264 100
260 28.4 22.6 33.8
265 98.9 88.1 132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	RE131D2-20250313	SDG No.:	Q1582
Lab Sample ID:	Q1582-07	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	950 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036670.D	1	03/17/25 08:48	03/17/25 22:15	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	10.7	E	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.25		30 - 150		62%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.27		55 - 111		67%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		53 - 106		67%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		114%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1740	7.717				
1146-65-2	Naphthalene-d8	4240	10.498				
15067-26-2	Acenaphthene-d10	2510	14.355				
1517-22-2	Phenanthrene-d10	4780	17.099				
1719-03-5	Chrysene-d12	3200	21.295				
1520-96-3	Perylene-d12	2740	23.543				

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\BN031725\
Data File : BN036670.D
Acq On : 17 Mar 2025 22:15
Operator : RC/JU
Sample : Q1582-07
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313

Quant Time: Mar 18 00:56:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

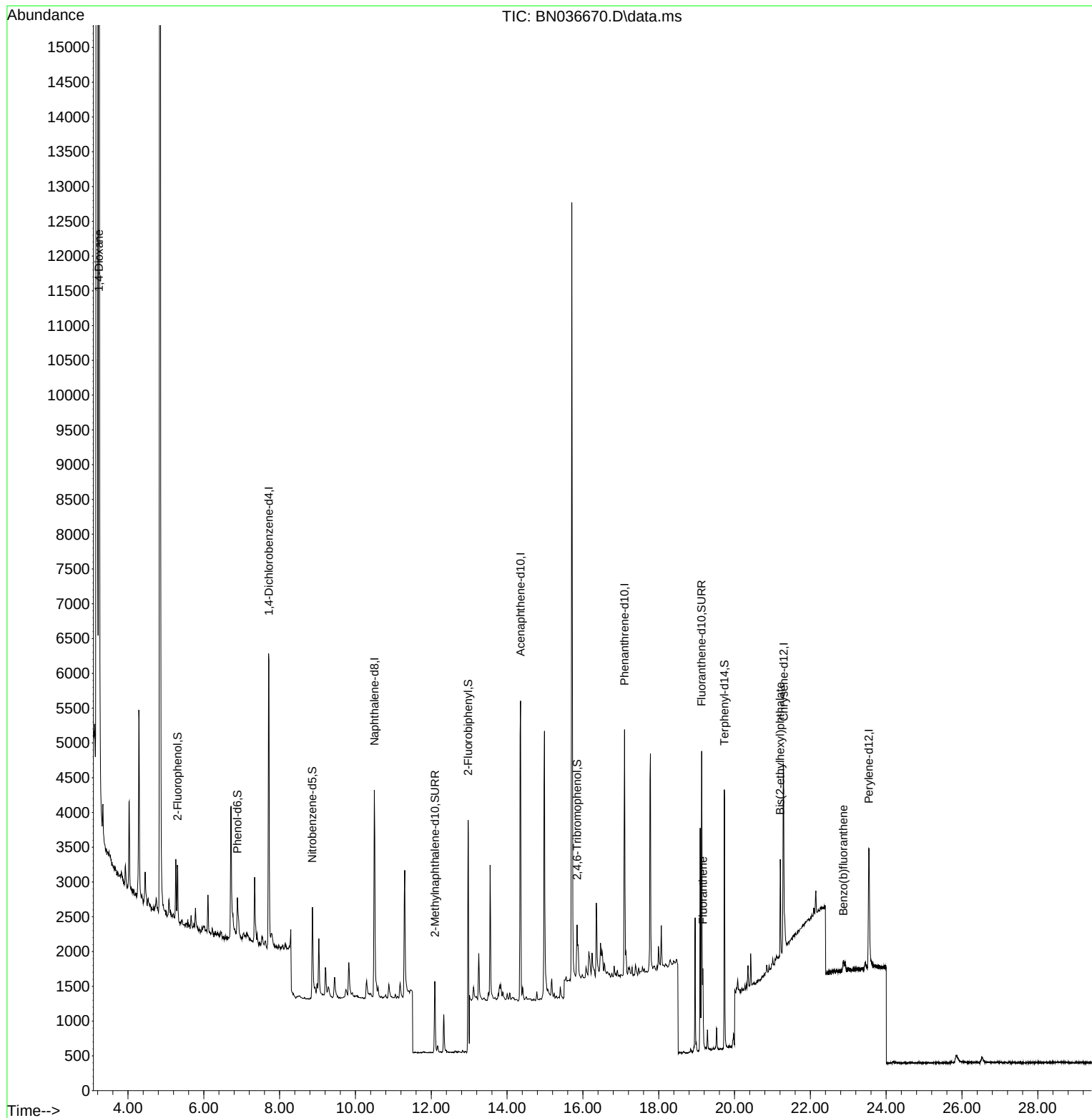
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1739	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4240	0.400	ng	-0.01
13) Acenaphthene-d10	14.355	164	2511	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	4784	0.400	ng	-0.01
29) Chrysene-d12	21.295	240	3199	0.400	ng	0.00
35) Perylene-d12	23.543	264	2740	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	589	0.145	ng	0.00
5) Phenol-d6	6.887	99	411	0.082	ng	-0.01
8) Nitrobenzene-d5	8.865	82	1227	0.266	ng	-0.01
11) 2-Methylnaphthalene-d10	12.096	152	1567	0.248	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	414	0.363	ng	-0.01
15) 2-Fluorobiphenyl	12.973	172	3893	0.267	ng	-0.02
27) Fluoranthene-d10	19.132	212	5011	0.409	ng	0.00
31) Terphenyl-d14	19.731	244	3506	0.457	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.232	88	19588	10.154	ng	95
28) Fluoranthene	19.164	202	340	0.021	ng	# 50
34) Bis(2-ethylhexyl)phtha...	21.205	149	1463	0.185	ng	# 95
37) Benzo(b)fluoranthene	22.873	252	239	0.024	ng	# 1

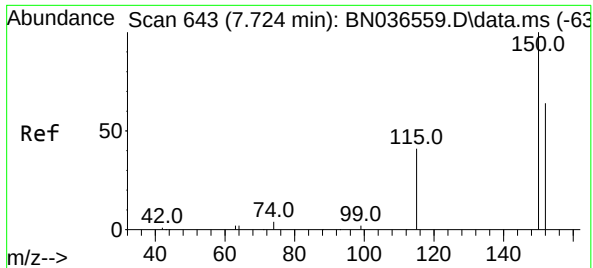
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036670.D
Acq On : 17 Mar 2025 22:15
Operator : RC/JU
Sample : Q1582-07
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313

Quant Time: Mar 18 00:56:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

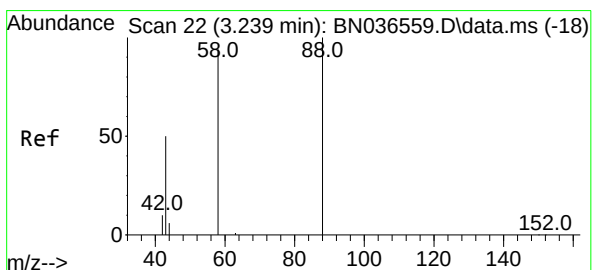
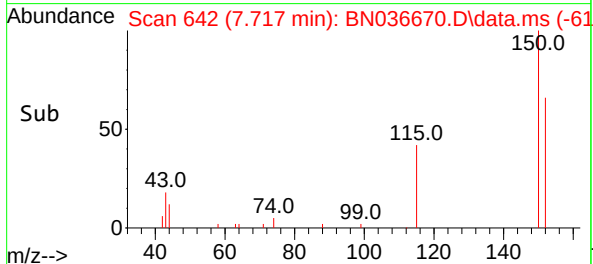
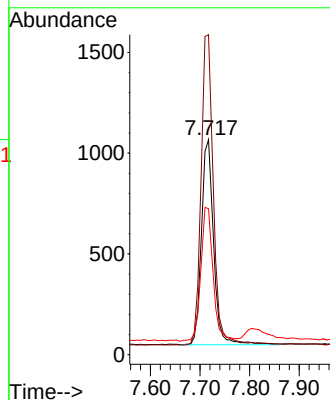
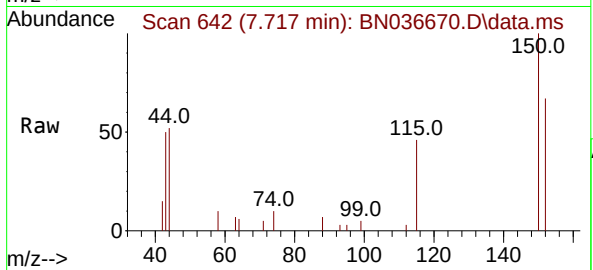




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

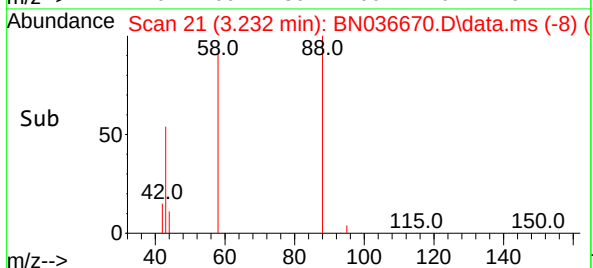
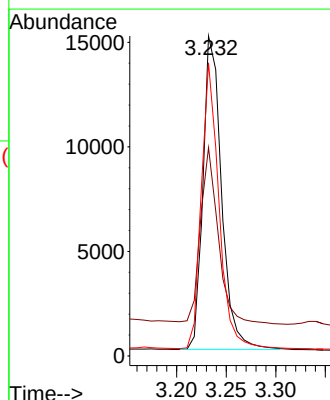
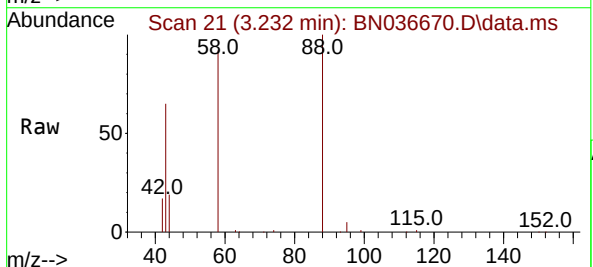
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313

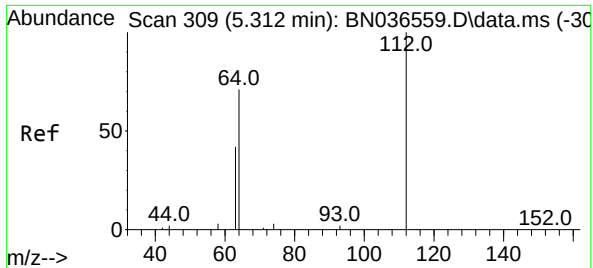
Tgt Ion:152 Resp: 1739
Ion Ratio Lower Upper
152 100
150 148.8 123.7 185.5
115 67.9 54.3 81.5



#2
1,4-Dioxane
Concen: 10.154 ng
RT: 3.232 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

Tgt Ion: 88 Resp: 19588
Ion Ratio Lower Upper
88 100
43 53.9 37.8 56.8
58 86.1 67.4 101.2

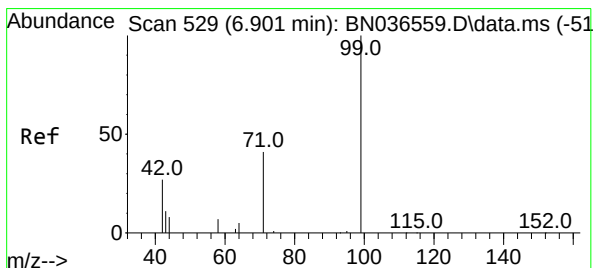
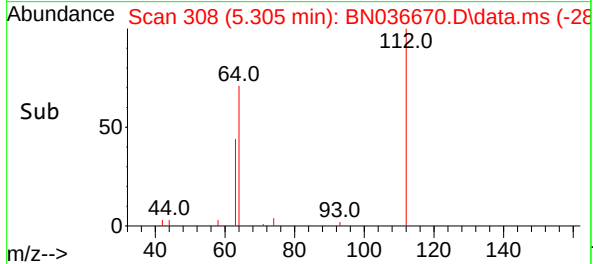
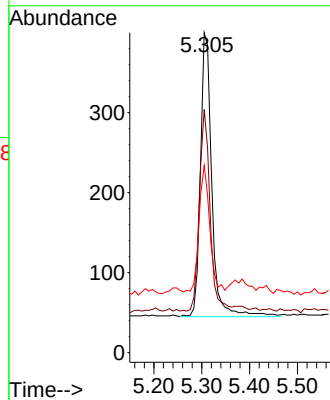
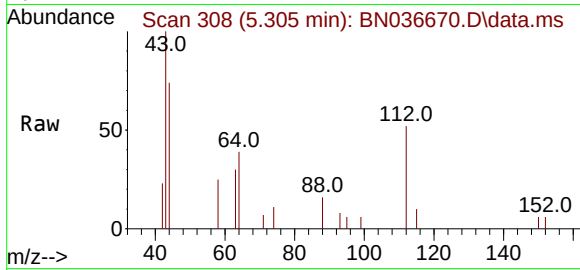




#4
2-Fluorophenol
Concen: 0.145 ng
RT: 5.305 min Scan# 309
Delta R.T. -0.007 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

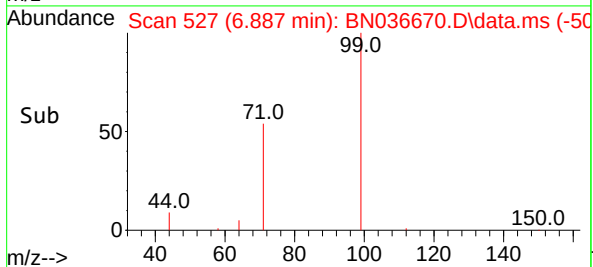
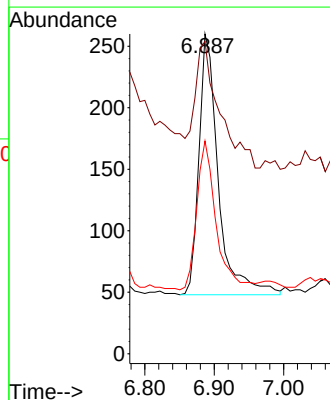
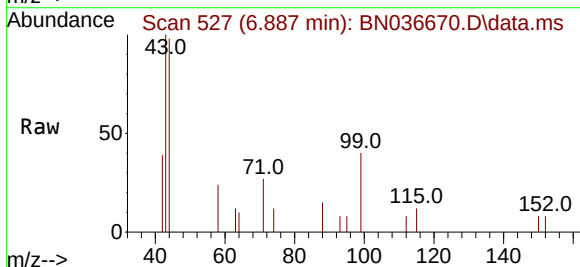
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313

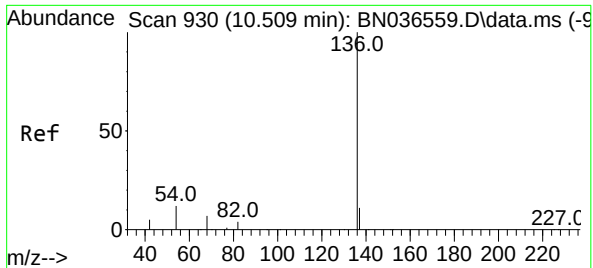
Tgt Ion:112 Resp: 589
Ion Ratio Lower Upper
112 100
64 66.2 53.1 79.7
63 43.3 31.8 47.8



#5
Phenol-d6
Concen: 0.082 ng
RT: 6.887 min Scan# 527
Delta R.T. -0.014 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

Tgt Ion: 99 Resp: 411
Ion Ratio Lower Upper
99 100
42 61.8 26.5 39.7#
71 57.2 34.1 51.1#

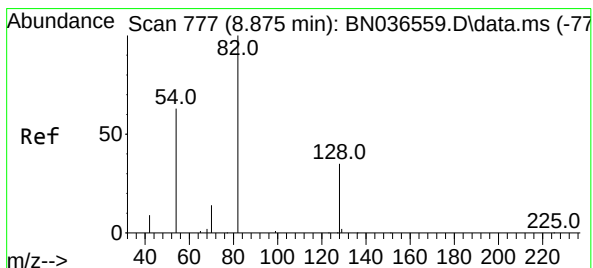
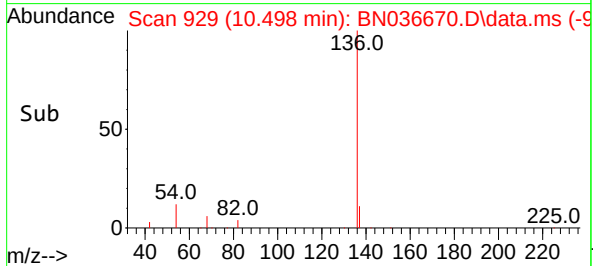
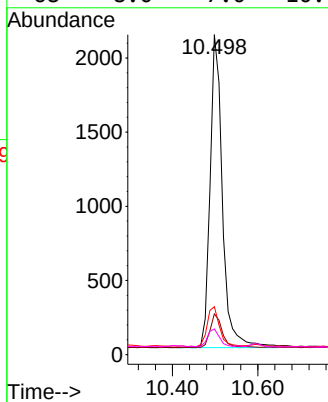
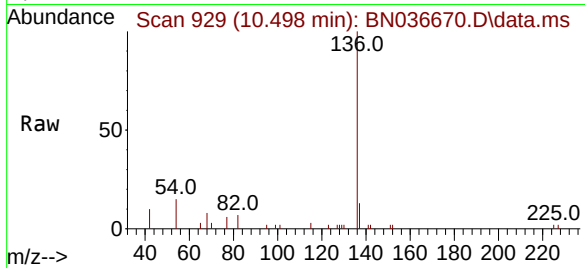




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

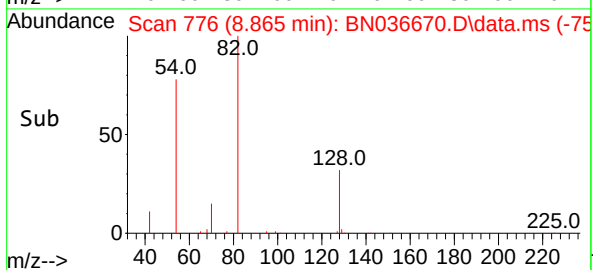
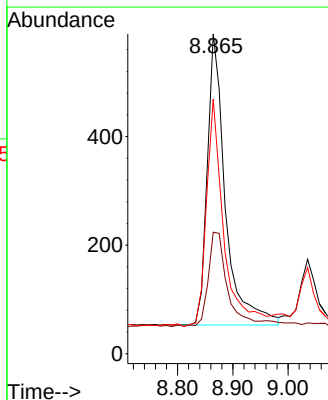
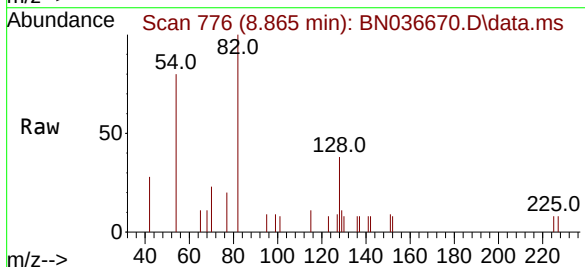
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313

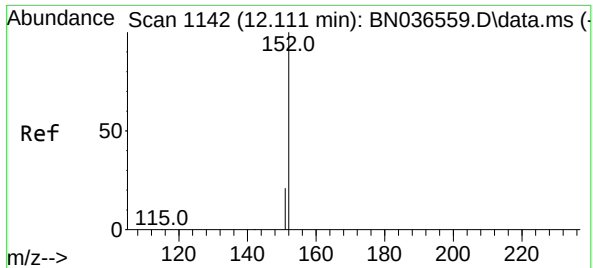
Tgt Ion:	136	Resp:	4240
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.3	15.5
54	15.0	11.5	17.3
68	8.0	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.266 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

Tgt Ion:	82	Resp:	1227
Ion	Ratio	Lower	Upper
82	100		
128	38.0	30.6	45.8
54	79.6	52.2	78.4

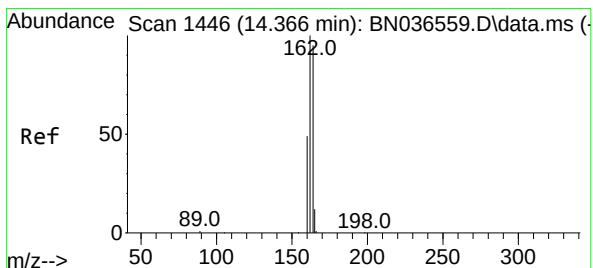
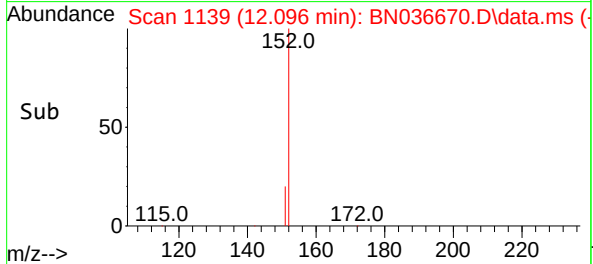
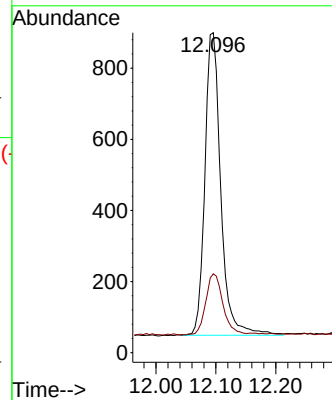
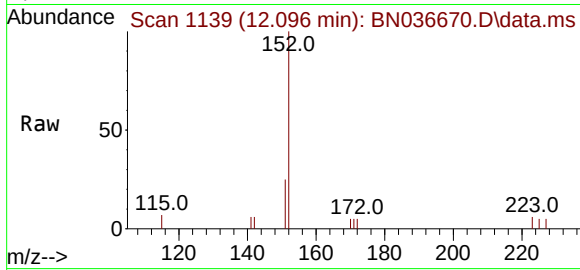




#11
2-Methylnaphthalene-d10
Concen: 0.248 ng
RT: 12.096 min Scan# 1142
Delta R.T. -0.015 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

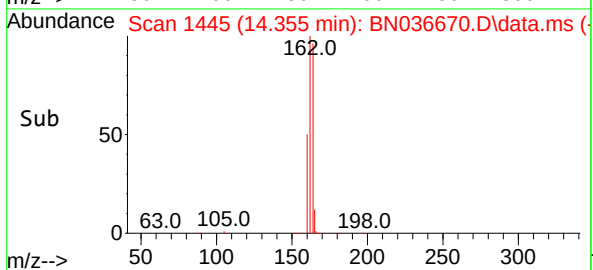
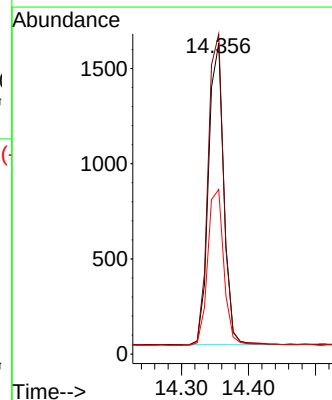
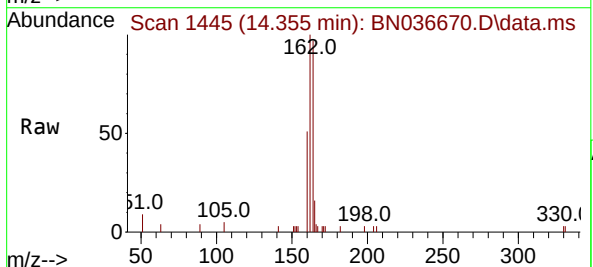
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313

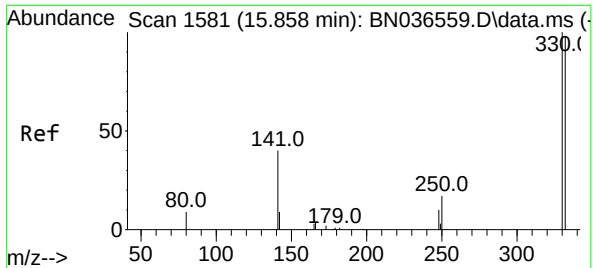
Tgt Ion:152 Resp: 1567
Ion Ratio Lower Upper
152 100
151 21.9 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

Tgt Ion:164 Resp: 2511
Ion Ratio Lower Upper
164 100
162 103.0 84.2 126.2
160 53.0 42.2 63.2





#14

2,4,6-Tribromophenol

Concen: 0.363 ng

RT: 15.845 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN036670.D

Acq: 17 Mar 2025 22:15

Instrument :

BNA_N

ClientSampleId :

RE131D2-20250313

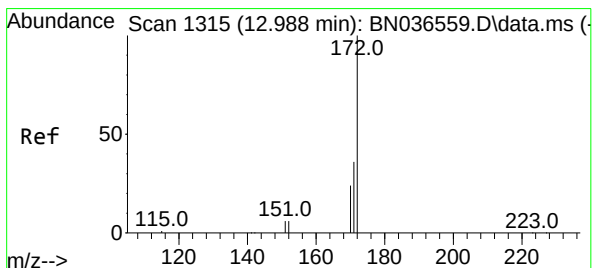
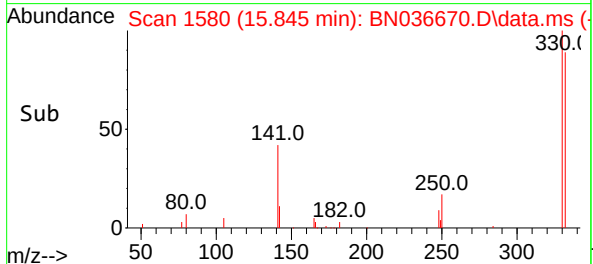
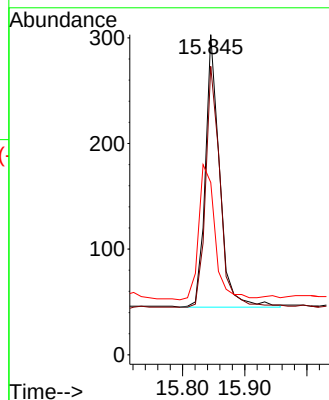
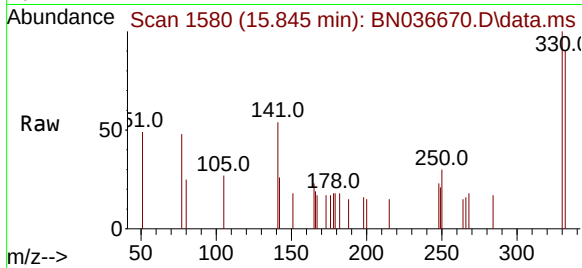
Tgt Ion:330 Resp: 414

Ion Ratio Lower Upper

330 100

332 90.3 75.2 112.8

141 57.0 43.4 65.2



#15

2-Fluorobiphenyl

Concen: 0.267 ng

RT: 12.973 min Scan# 1312

Delta R.T. -0.015 min

Lab File: BN036670.D

Acq: 17 Mar 2025 22:15

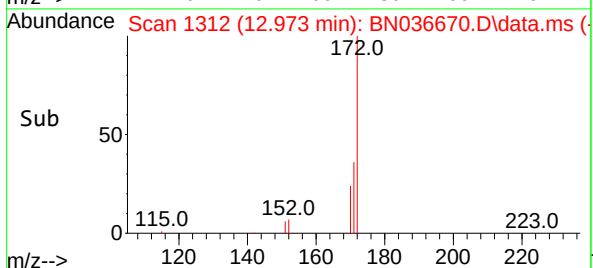
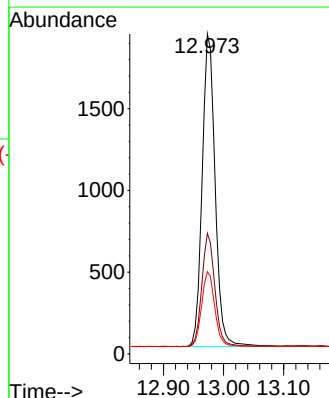
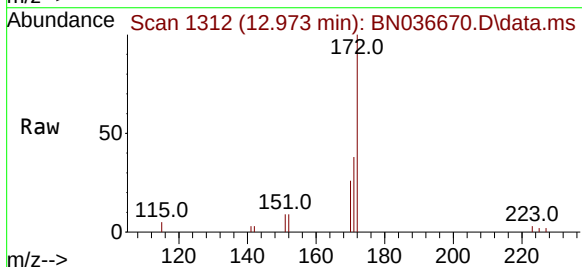
Tgt Ion:172 Resp: 3893

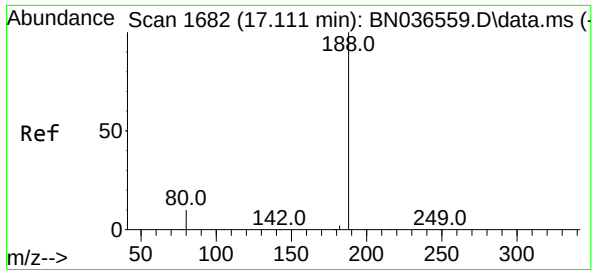
Ion Ratio Lower Upper

172 100

171 37.7 29.5 44.3

170 25.7 20.2 30.4





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN036670.D

Acq: 17 Mar 2025 22:15

Instrument :

BNA_N

ClientSampleId :

RE131D2-20250313

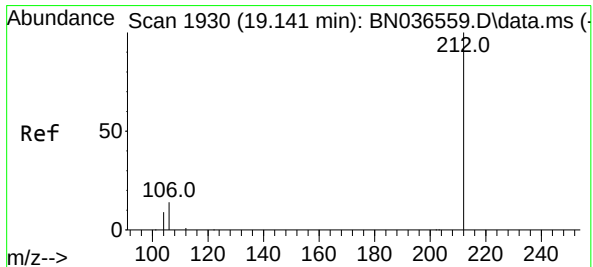
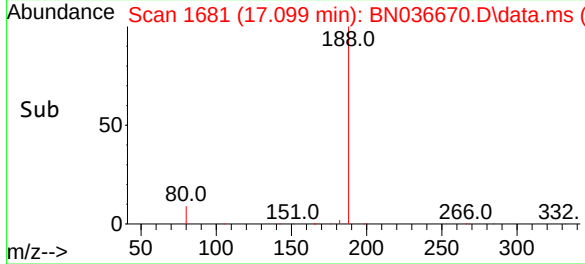
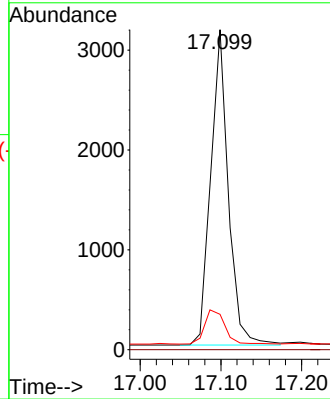
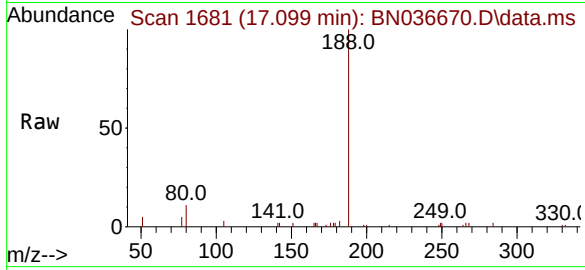
Tgt Ion:188 Resp: 4784

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.1 8.8 13.2



#27

Fluoranthene-d10

Concen: 0.409 ng

RT: 19.132 min Scan# 1928

Delta R.T. -0.009 min

Lab File: BN036670.D

Acq: 17 Mar 2025 22:15

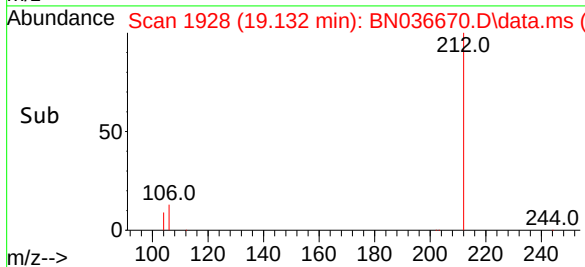
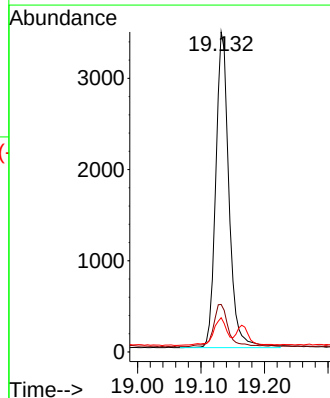
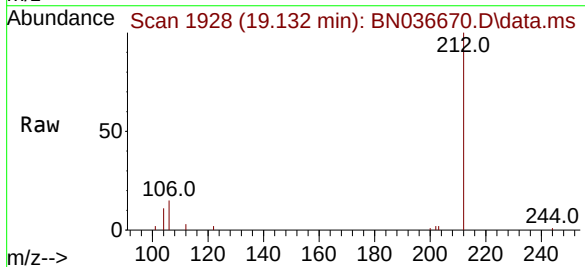
Tgt Ion:212 Resp: 5011

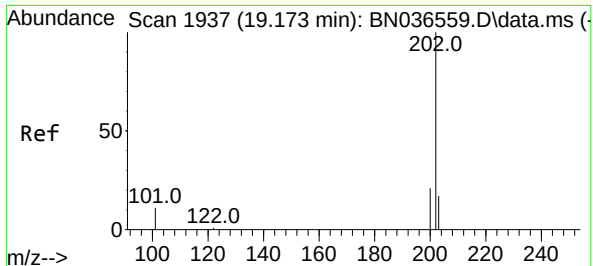
Ion Ratio Lower Upper

212 100

106 14.6 11.8 17.6

104 9.1 7.3 10.9





#28

Fluoranthene

Concen: 0.021 ng

RT: 19.164 min Scan# 1937

Delta R.T. -0.009 min

Lab File: BN036670.D

Acq: 17 Mar 2025 22:15

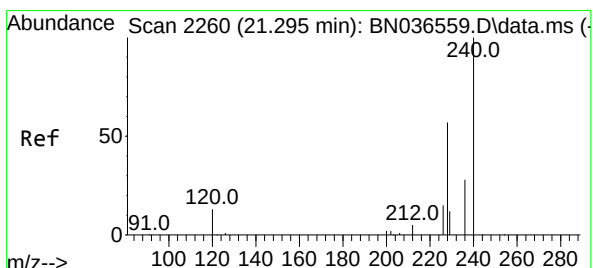
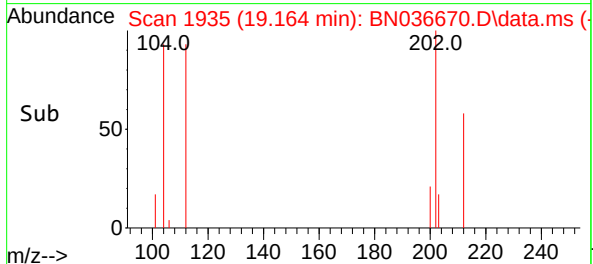
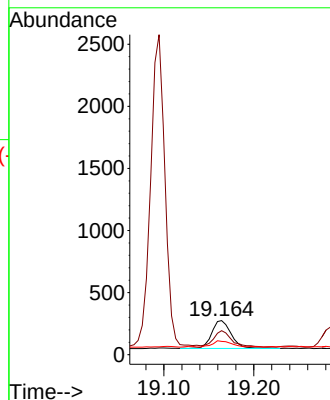
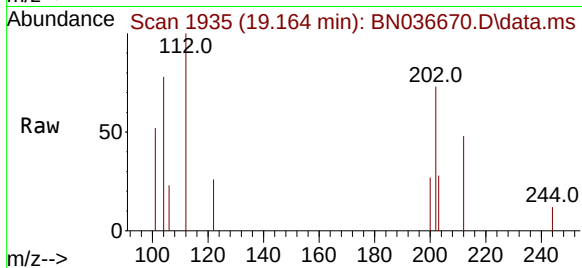
Instrument :

BNA_N

ClientSampleId :

RE131D2-20250313

Tgt Ion:	202	Resp:	340
Ion	Ratio	Lower	Upper
202	100		
101	53.5	9.4	14.0#
203	20.9	13.5	20.3#



#29

Chrysene-d12

Concen: 0.400 ng

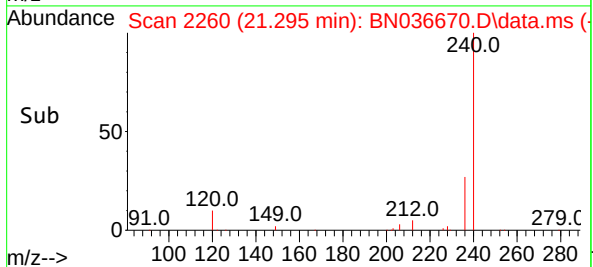
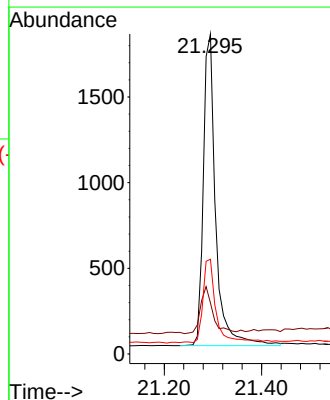
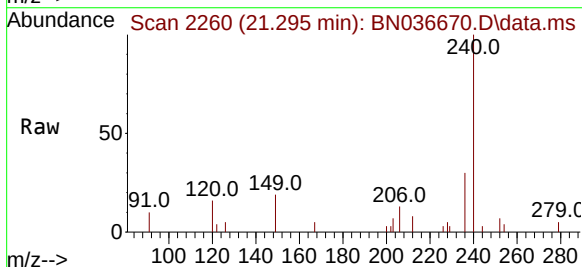
RT: 21.295 min Scan# 2260

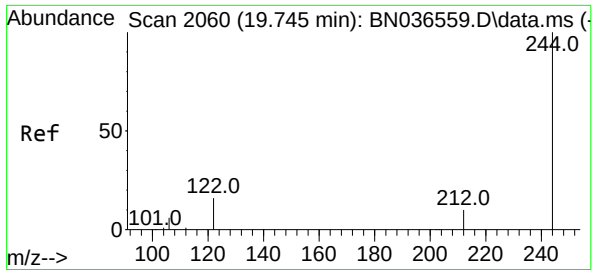
Delta R.T. 0.000 min

Lab File: BN036670.D

Acq: 17 Mar 2025 22:15

Tgt Ion:	240	Resp:	3199
Ion	Ratio	Lower	Upper
240	100		
120	16.0	14.6	22.0
236	29.6	24.1	36.1

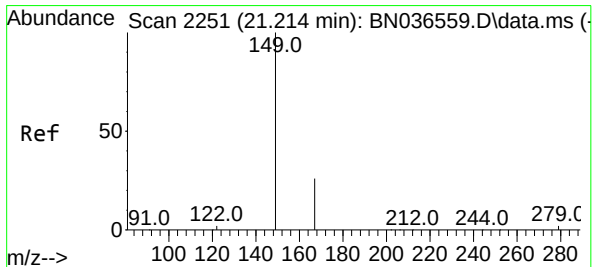
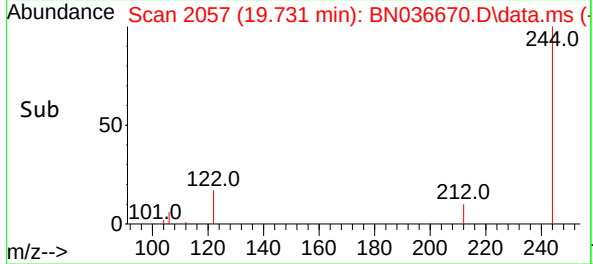
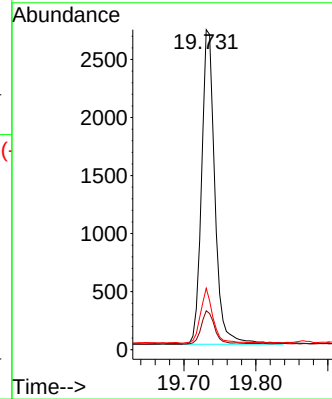
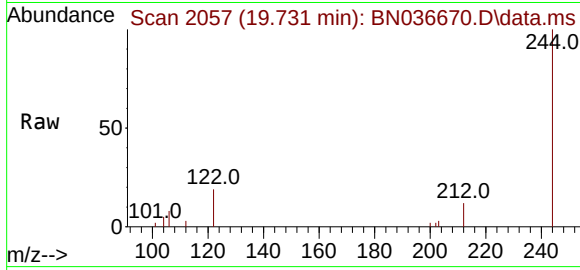




#31
Terphenyl-d14
Concen: 0.457 ng
RT: 19.731 min Scan# 2060
Delta R.T. -0.014 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

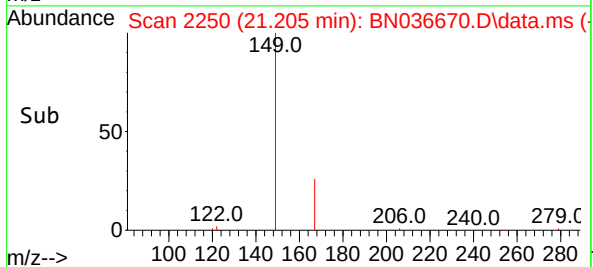
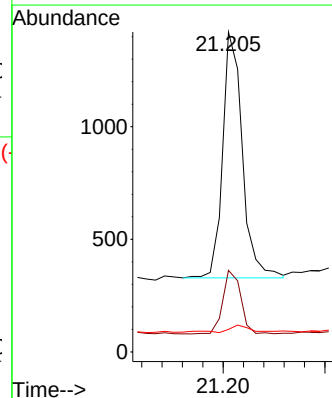
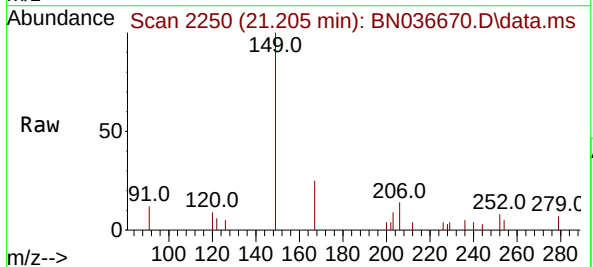
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313

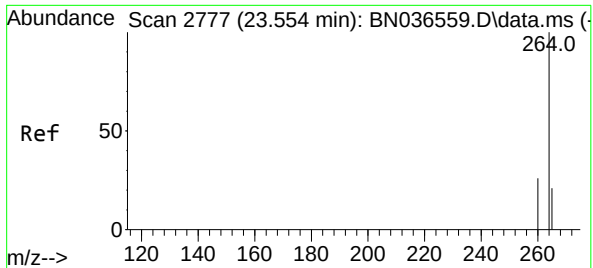
Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.2	9.6	14.4
122	19.2	13.9	20.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.185 ng
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

Tgt Ion	Ratio	Lower	Upper
149	100		
167	23.4	20.7	31.1
279	2.9	3.6	5.4

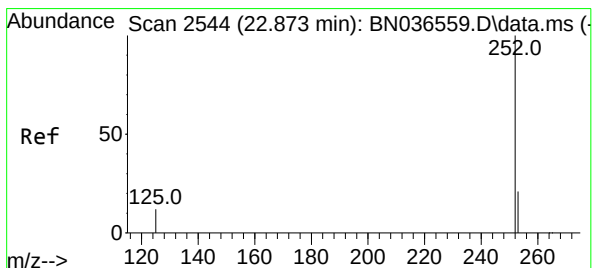
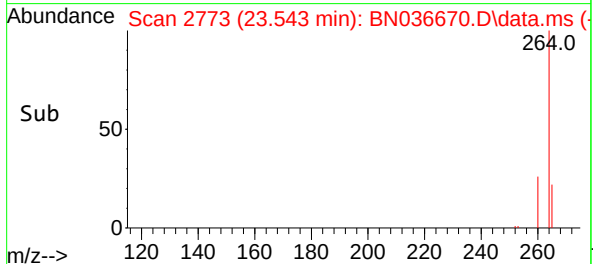
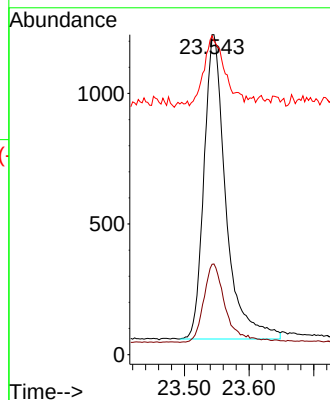
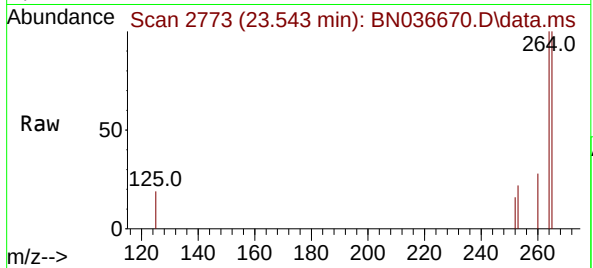




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.543 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

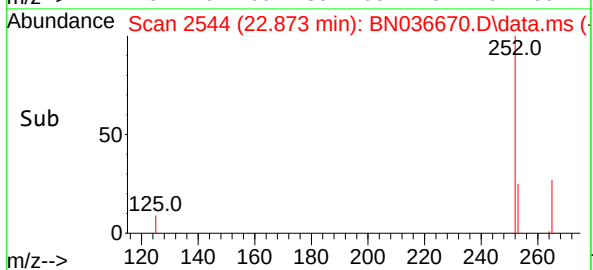
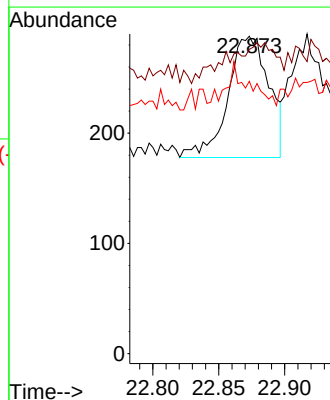
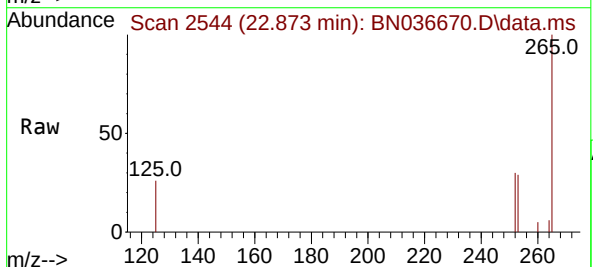
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313

Tgt Ion:264 Resp: 2740
Ion Ratio Lower Upper
264 100
260 28.2 22.6 33.8
265 99.7 88.1 132.1



#37
Benzo(b)fluoranthene
Concen: 0.024 ng
RT: 22.873 min Scan# 2544
Delta R.T. 0.000 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

Tgt Ion:252 Resp: 239
Ion Ratio Lower Upper
252 100
253 95.8 23.9 35.9#
125 85.8 17.4 26.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	RE131D2-20250313DL	SDG No.:	Q1582
Lab Sample ID:	Q1582-07DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	950 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036686.D	5	03/17/25 08:48	03/18/25 11:10	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	11.6	D	0.36	1.10	1.10	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		69%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		74%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		116%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2030	7.71				
1146-65-2	Naphthalene-d8	4850	10.498				
15067-26-2	Acenaphthene-d10	3030	14.356				
1517-22-2	Phenanthrene-d10	6210	17.099				
1719-03-5	Chrysene-d12	4360	21.286				
1520-96-3	Perylene-d12	3810	23.537				

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\BN031825\
Data File : BN036686.D
Acq On : 18 Mar 2025 11:10
Operator : RC/JU
Sample : Q1582-07DL 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313DL

Quant Time: Mar 18 11:42:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

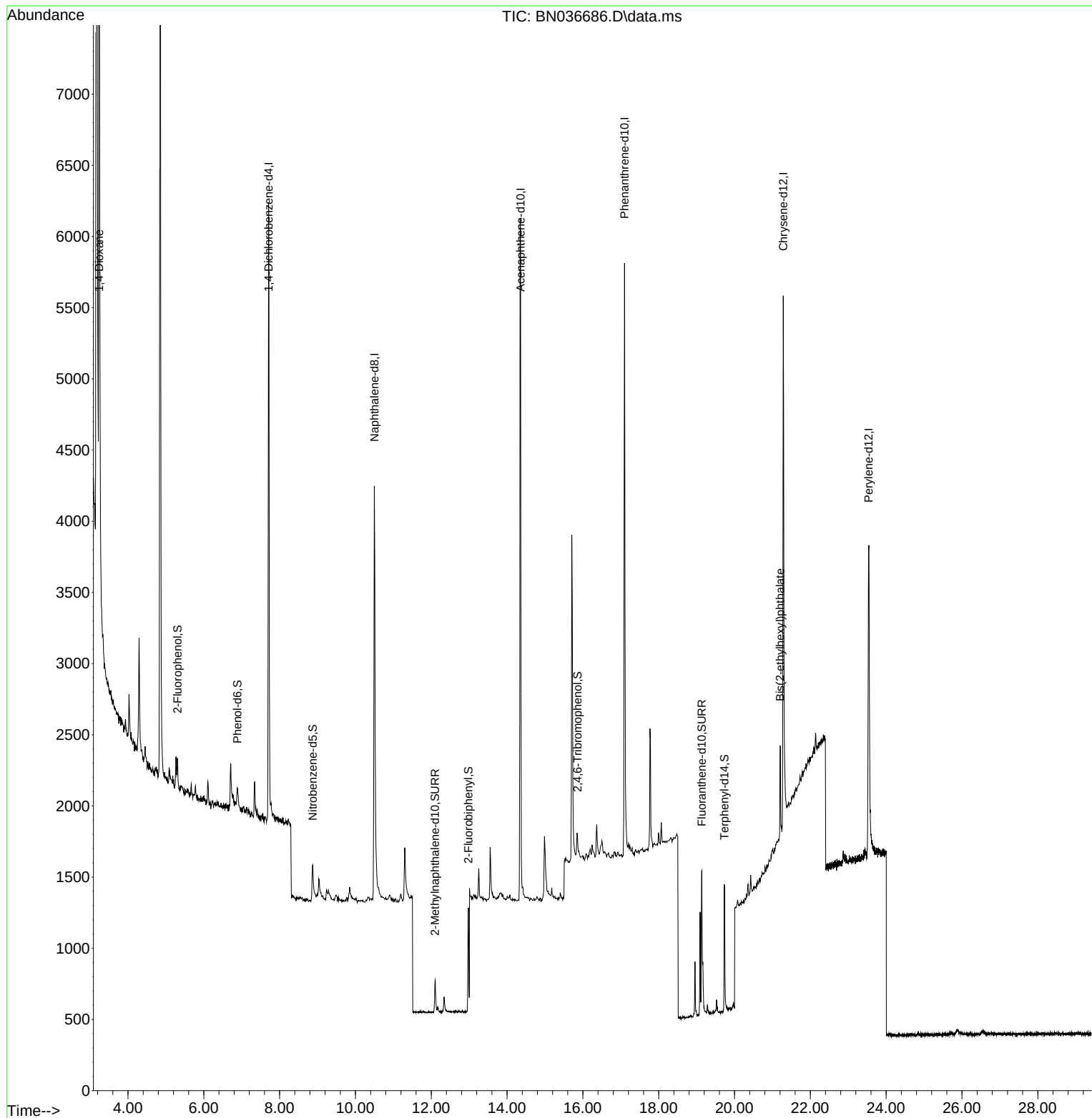
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	2029	0.400	ng	-0.01
7) Naphthalene-d8	10.498	136	4853	0.400	ng	-0.01
13) Acenaphthene-d10	14.356	164	3032	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	6208	0.400	ng	-0.01
29) Chrysene-d12	21.286	240	4364	0.400	ng	0.00
35) Perylene-d12	23.537	264	3806	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	158	0.033	ng	0.00
5) Phenol-d6	6.887	99	120	0.021	ng	-0.01
8) Nitrobenzene-d5	8.875	82	331	0.063	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	394	0.055	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	115	0.084	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	1040	0.059	ng	0.00
27) Fluoranthene-d10	19.137	212	1415	0.089	ng	0.00
31) Terphenyl-d14	19.731	244	976	0.093	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.240	88	4940	2.195	ng	93
34) Bis(2-ethylhexyl)phtha...	21.205	149	709	0.066	ng	# 93

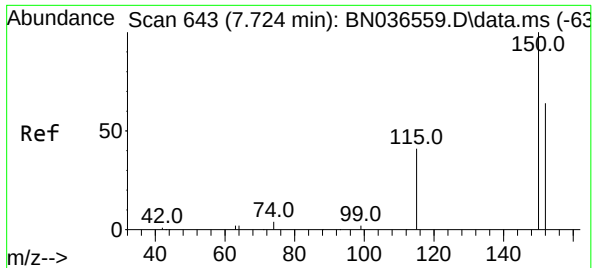
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
Data File : BN036686.D
Acq On : 18 Mar 2025 11:10
Operator : RC/JU
Sample : Q1582-07DL 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313DL

Quant Time: Mar 18 11:42:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

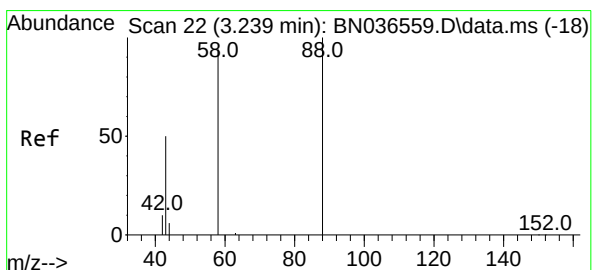
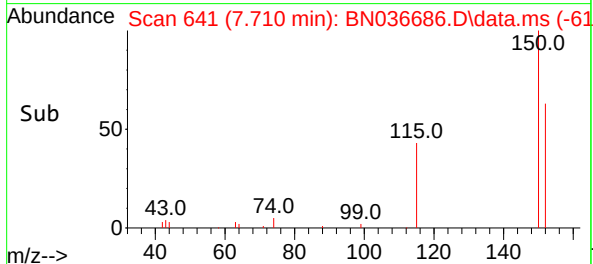
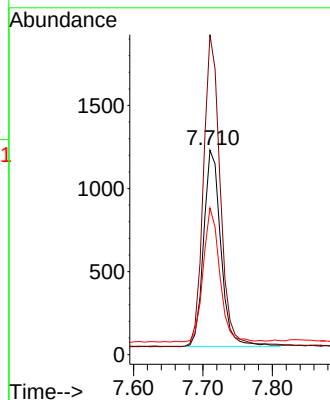
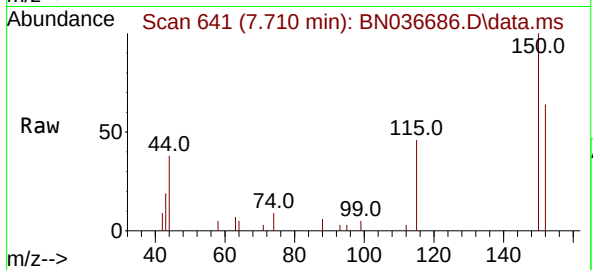




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 64
Delta R.T. -0.014 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

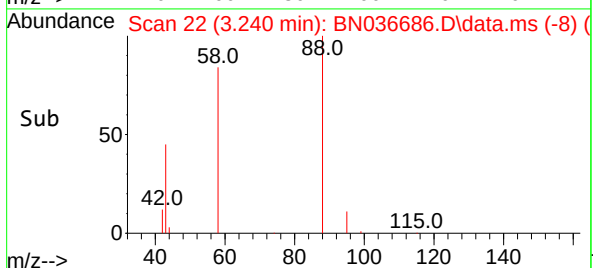
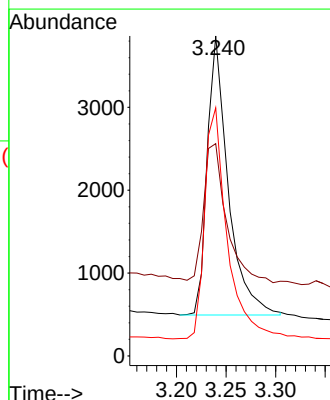
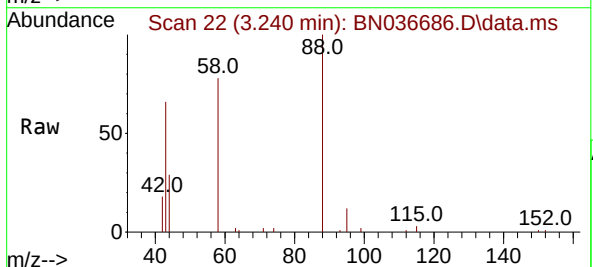
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313DL

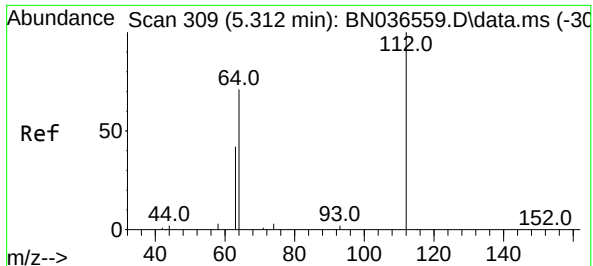
Tgt Ion:152 Resp: 2029
Ion Ratio Lower Upper
152 100
150 156.5 123.7 185.5
115 71.7 54.3 81.5



#2
1,4-Dioxane
Concen: 2.195 ng
RT: 3.240 min Scan# 22
Delta R.T. 0.001 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

Tgt Ion: 88 Resp: 4940
Ion Ratio Lower Upper
88 100
43 54.3 37.8 56.8
58 88.7 67.4 101.2

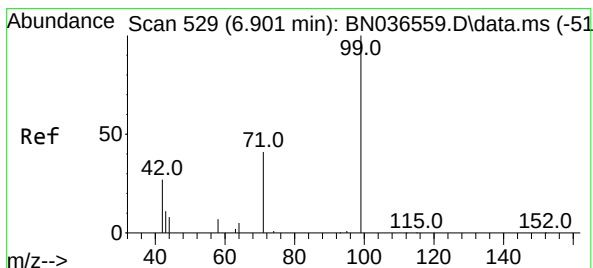
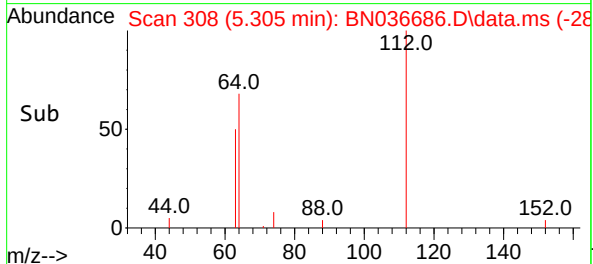
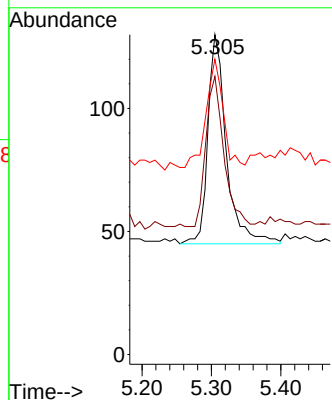
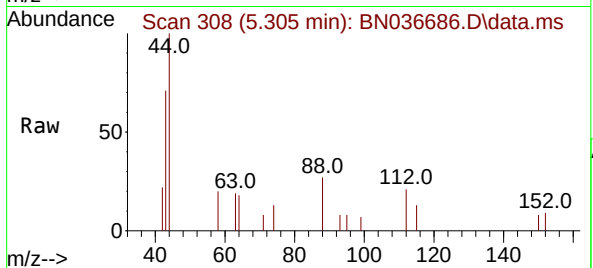




#4
2-Fluorophenol
Concen: 0.033 ng
RT: 5.305 min Scan# 309
Delta R.T. -0.007 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

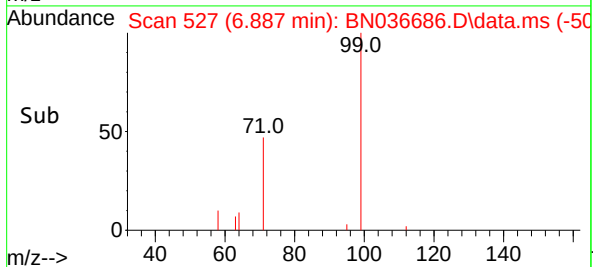
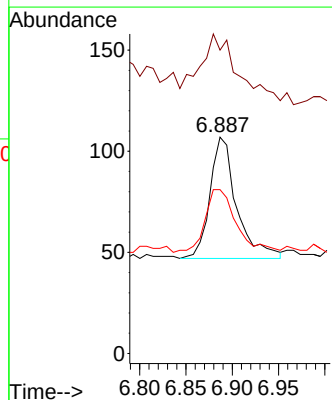
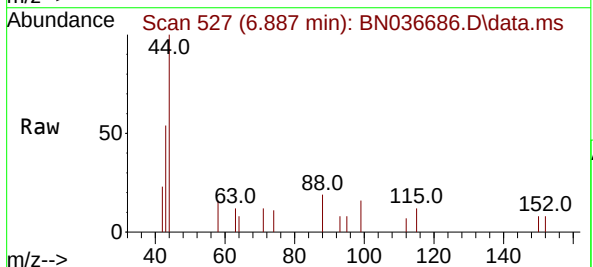
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313DL

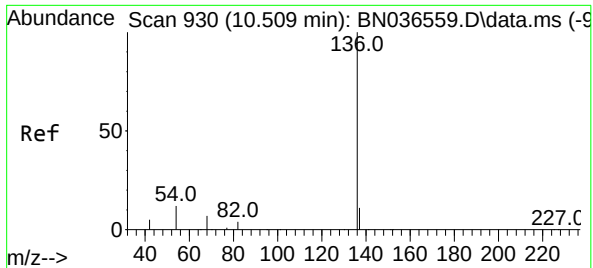
Tgt Ion:112 Resp: 158
Ion Ratio Lower Upper
112 100
64 69.6 53.1 79.7
63 47.5 31.8 47.8



#5
Phenol-d6
Concen: 0.021 ng
RT: 6.887 min Scan# 527
Delta R.T. -0.014 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

Tgt Ion: 99 Resp: 120
Ion Ratio Lower Upper
99 100
42 82.5 26.5 39.7#
71 60.0 34.1 51.1#

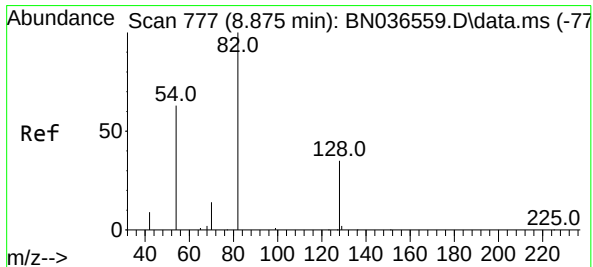
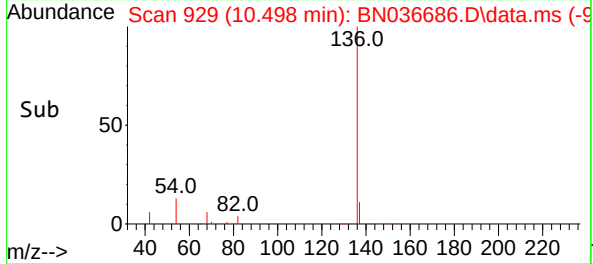
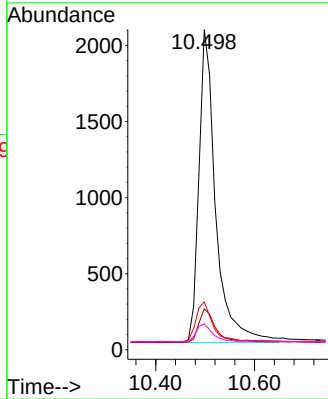
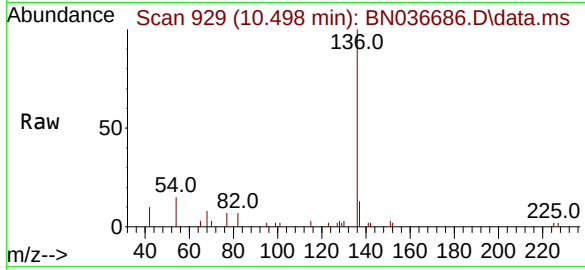




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 911
Delta R.T. -0.010 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

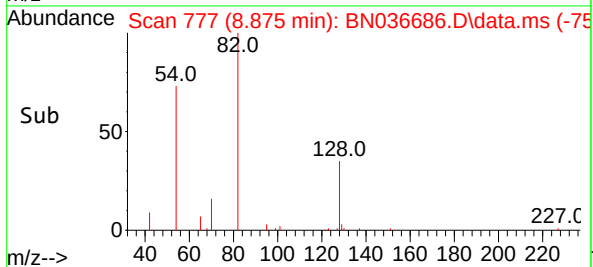
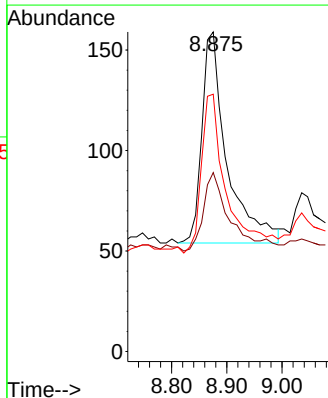
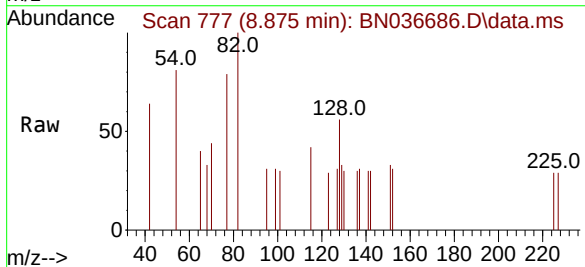
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313DL

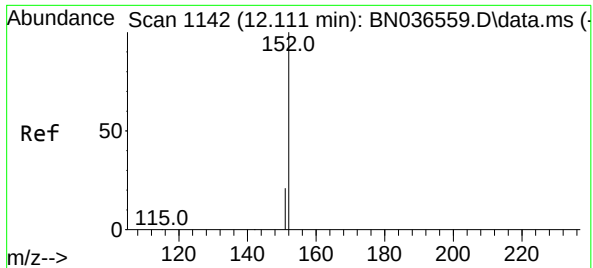
Tgt Ion:	136	Resp:	4853
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.3	15.5
54	14.9	11.5	17.3
68	8.1	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.063 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

Tgt Ion:	82	Resp:	331
Ion	Ratio	Lower	Upper
82	100		
128	56.0	30.6	45.8#
54	80.5	52.2	78.4#

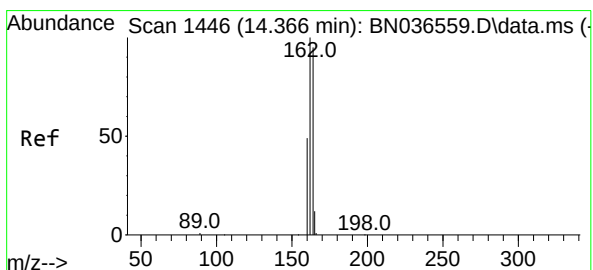
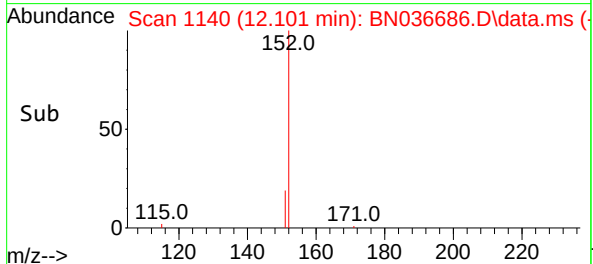
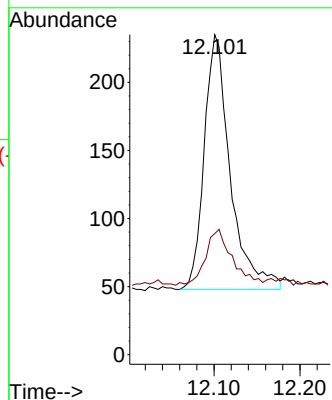
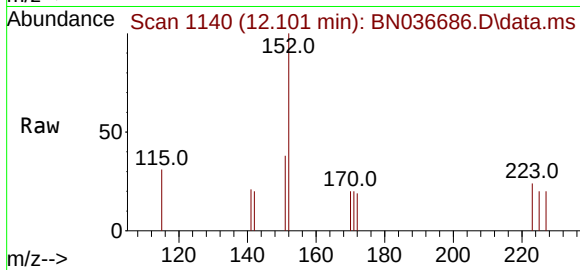




#11
2-Methylnaphthalene-d10
Concen: 0.055 ng
RT: 12.101 min Scan# 1140
Delta R.T. -0.010 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

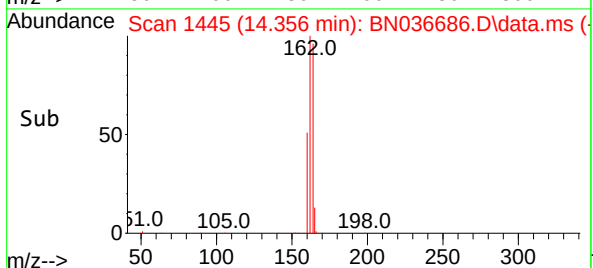
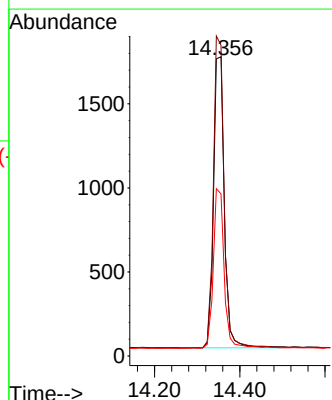
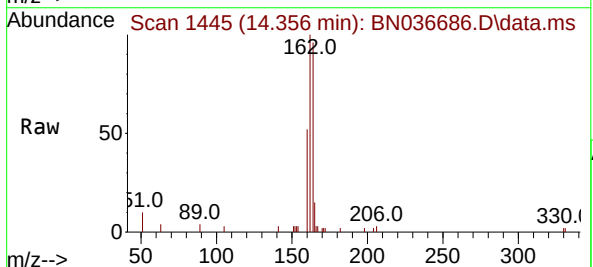
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313DL

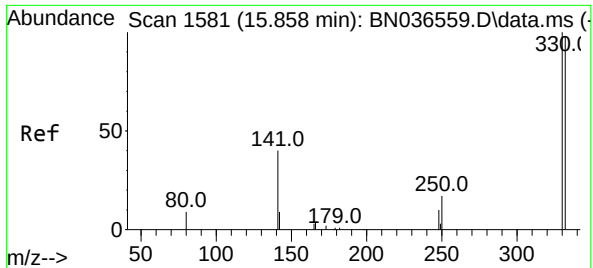
Tgt Ion:152 Resp: 394
Ion Ratio Lower Upper
152 100
151 22.6 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1445
Delta R.T. -0.010 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

Tgt Ion:164 Resp: 3032
Ion Ratio Lower Upper
164 100
162 103.9 84.2 126.2
160 54.2 42.2 63.2

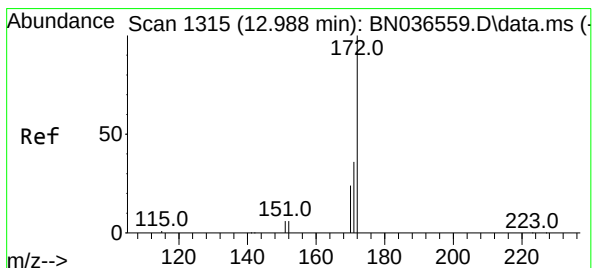
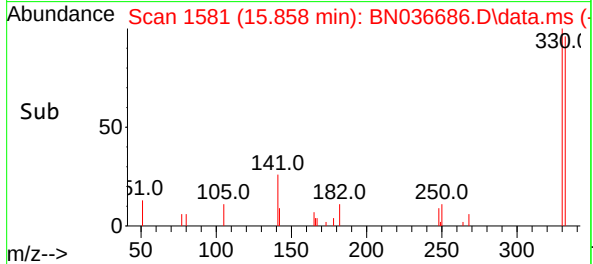
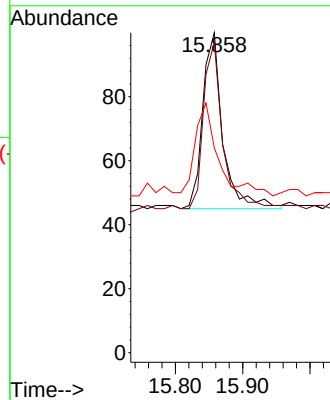
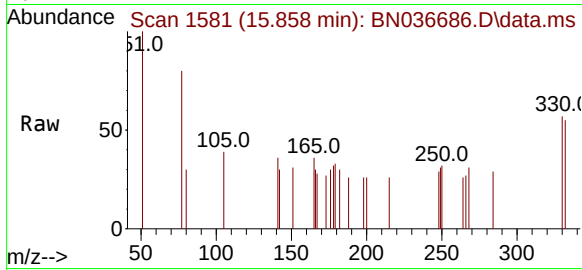




#14
2,4,6-Tribromophenol
Concen: 0.084 ng
RT: 15.858 min Scan# 1115
Delta R.T. 0.000 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

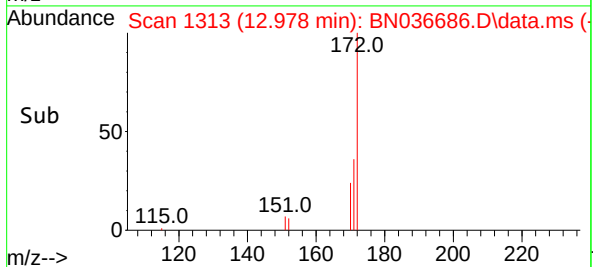
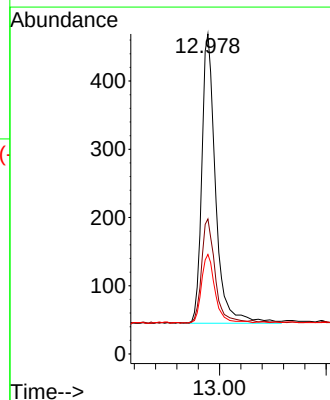
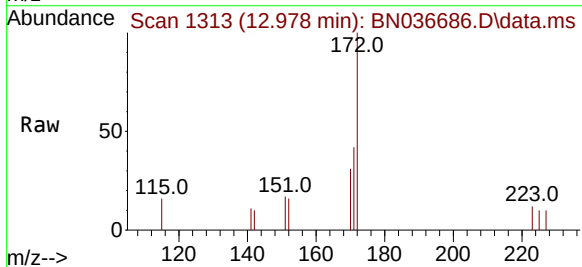
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313DL

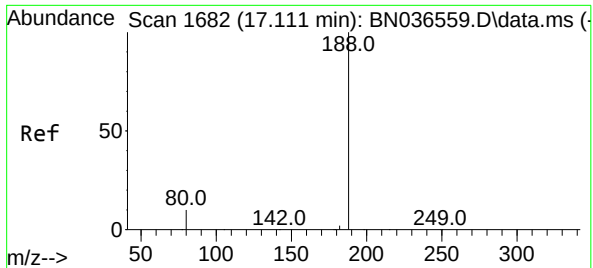
Tgt Ion:	330	Resp:	115
Ion	Ratio	Lower	Upper
330	100		
332	92.2	75.2	112.8
141	60.0	43.4	65.2



#15
2-Fluorobiphenyl
Concen: 0.059 ng
RT: 12.978 min Scan# 1313
Delta R.T. -0.010 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

Tgt Ion:	172	Resp:	1040
Ion	Ratio	Lower	Upper
172	100		
171	42.2	29.5	44.3
170	31.1	20.2	30.4

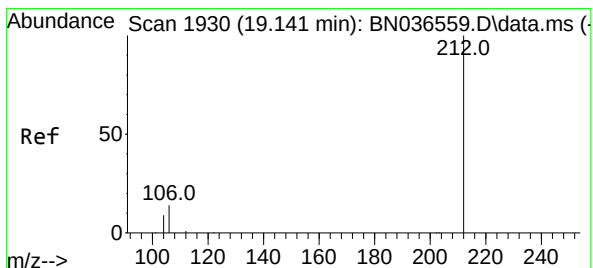
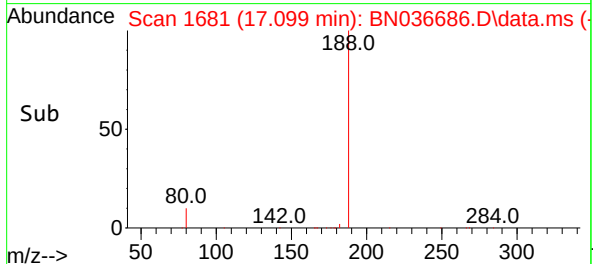
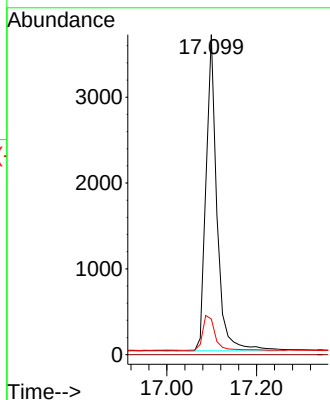
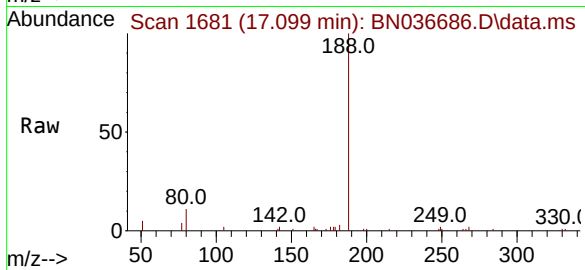




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

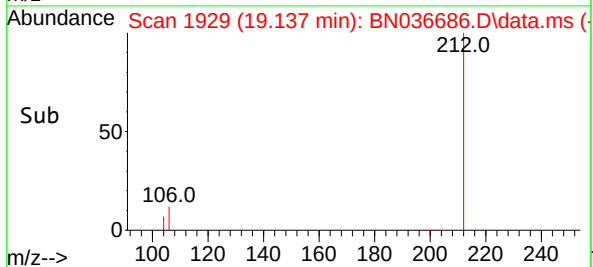
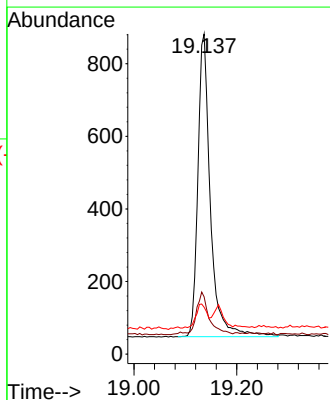
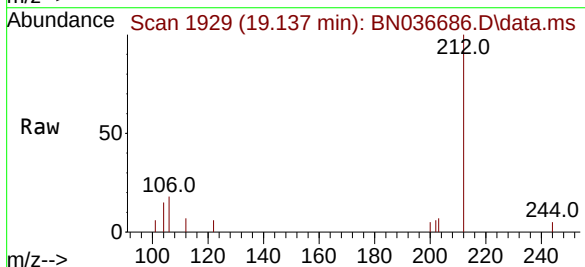
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313DL

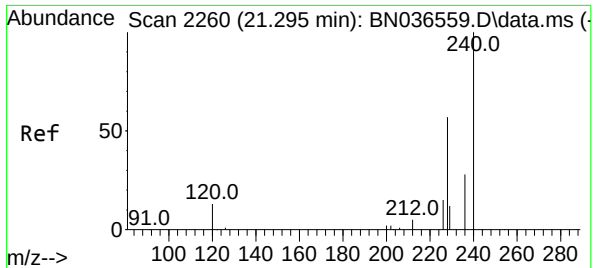
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.1	8.8	13.2



#27
Fluoranthene-d10
Concen: 0.089 ng
RT: 19.137 min Scan# 1929
Delta R.T. -0.004 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.2	11.8	17.6
104	6.8	7.3	10.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.286 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036686.D

Acq: 18 Mar 2025 11:10

Instrument :

BNA_N

ClientSampleId :

RE131D2-20250313DL

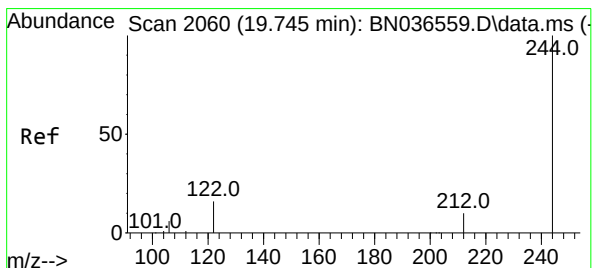
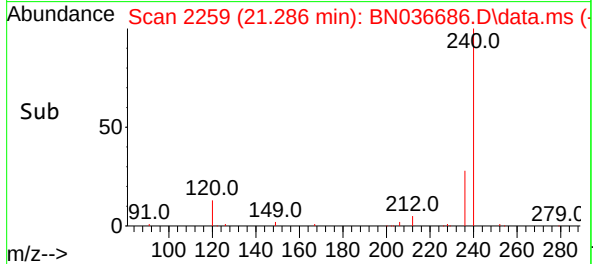
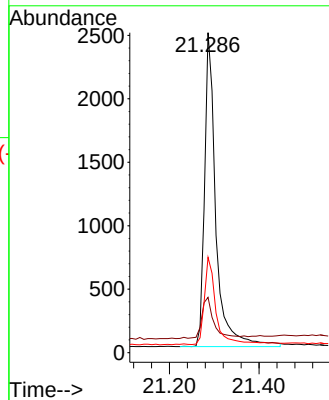
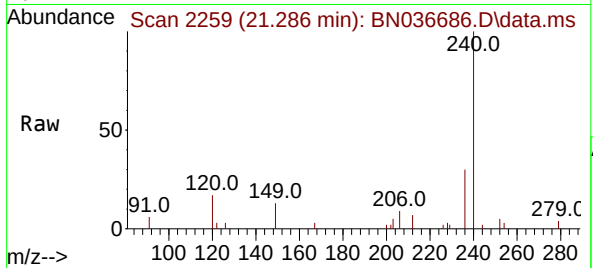
Tgt Ion:240 Resp: 4364

Ion Ratio Lower Upper

240 100

120 17.3 14.6 22.0

236 29.8 24.1 36.1



#31

Terphenyl-d14

Concen: 0.093 ng

RT: 19.731 min Scan# 2057

Delta R.T. -0.014 min

Lab File: BN036686.D

Acq: 18 Mar 2025 11:10

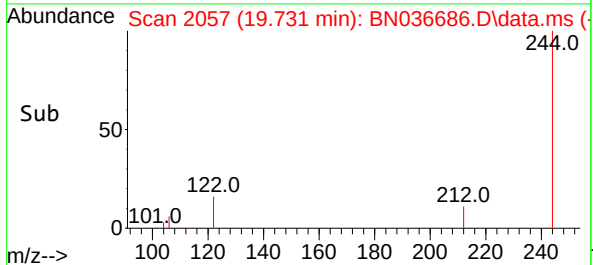
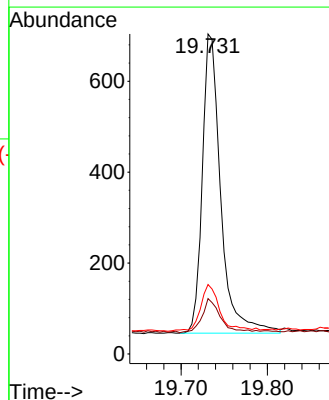
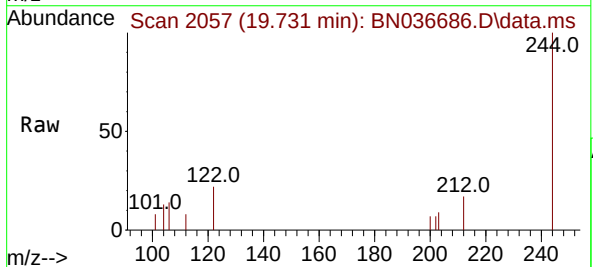
Tgt Ion:244 Resp: 976

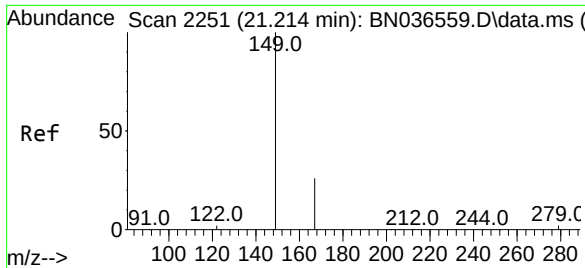
Ion Ratio Lower Upper

244 100

212 17.3 9.6 14.4#

122 21.7 13.9 20.9#

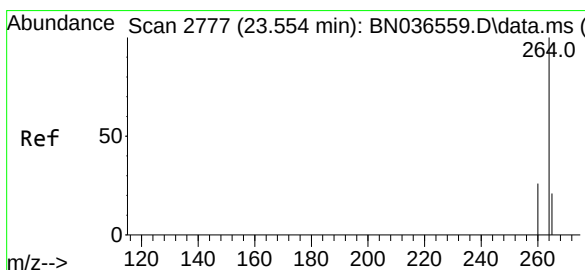
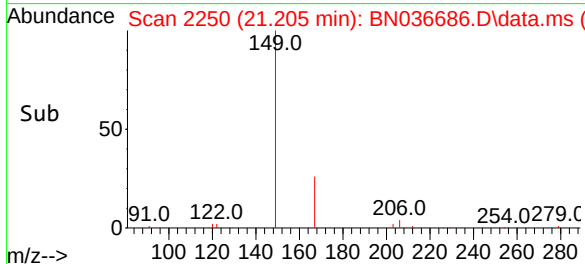
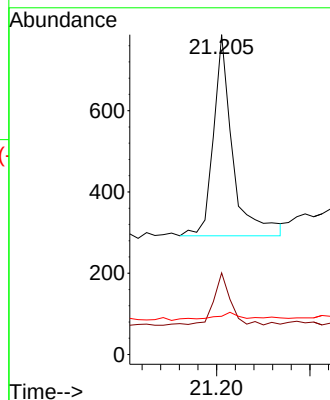
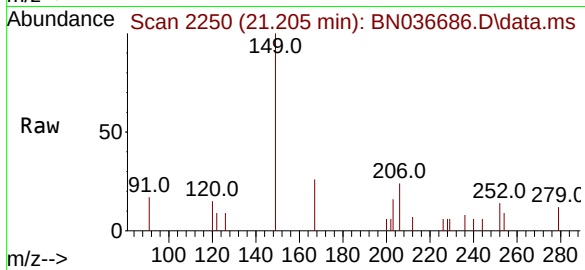




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.066 ng
RT: 21.205 min Scan# 211
Delta R.T. -0.009 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

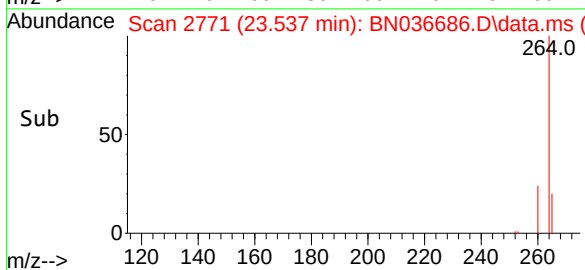
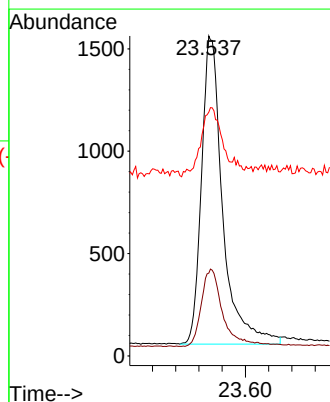
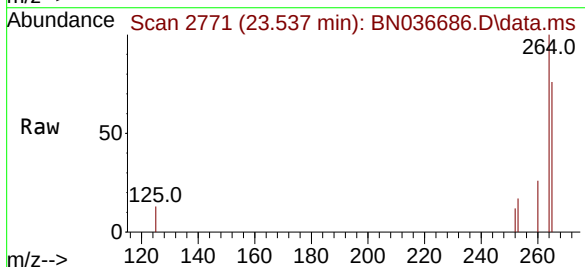
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313DL

Tgt Ion:149 Resp: 709
Ion Ratio Lower Upper
149 100
167 22.0 20.7 31.1
279 6.5 3.6 5.4#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.537 min Scan# 2771
Delta R.T. -0.017 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

Tgt Ion:264 Resp: 3806
Ion Ratio Lower Upper
264 100
260 25.9 22.6 33.8
265 76.2 88.1 132.1#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	RE131D3-20250313	SDG No.:	Q1582
Lab Sample ID:	Q1582-08	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036671.D	1	03/17/25 08:48	03/17/25 22:51	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.50		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		116%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		84%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.55	*	58 - 132		137%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1480	7.717				
1146-65-2	Naphthalene-d8	3710	10.498				
15067-26-2	Acenaphthene-d10	2270	14.355				
1517-22-2	Phenanthrene-d10	4570	17.099				
1719-03-5	Chrysene-d12	3100	21.295				
1520-96-3	Perylene-d12	2530	23.545				

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\BN031725\
Data File : BN036671.D
Acq On : 17 Mar 2025 22:51
Operator : RC/JU
Sample : Q1582-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D3-20250313

Quant Time: Mar 18 00:56:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

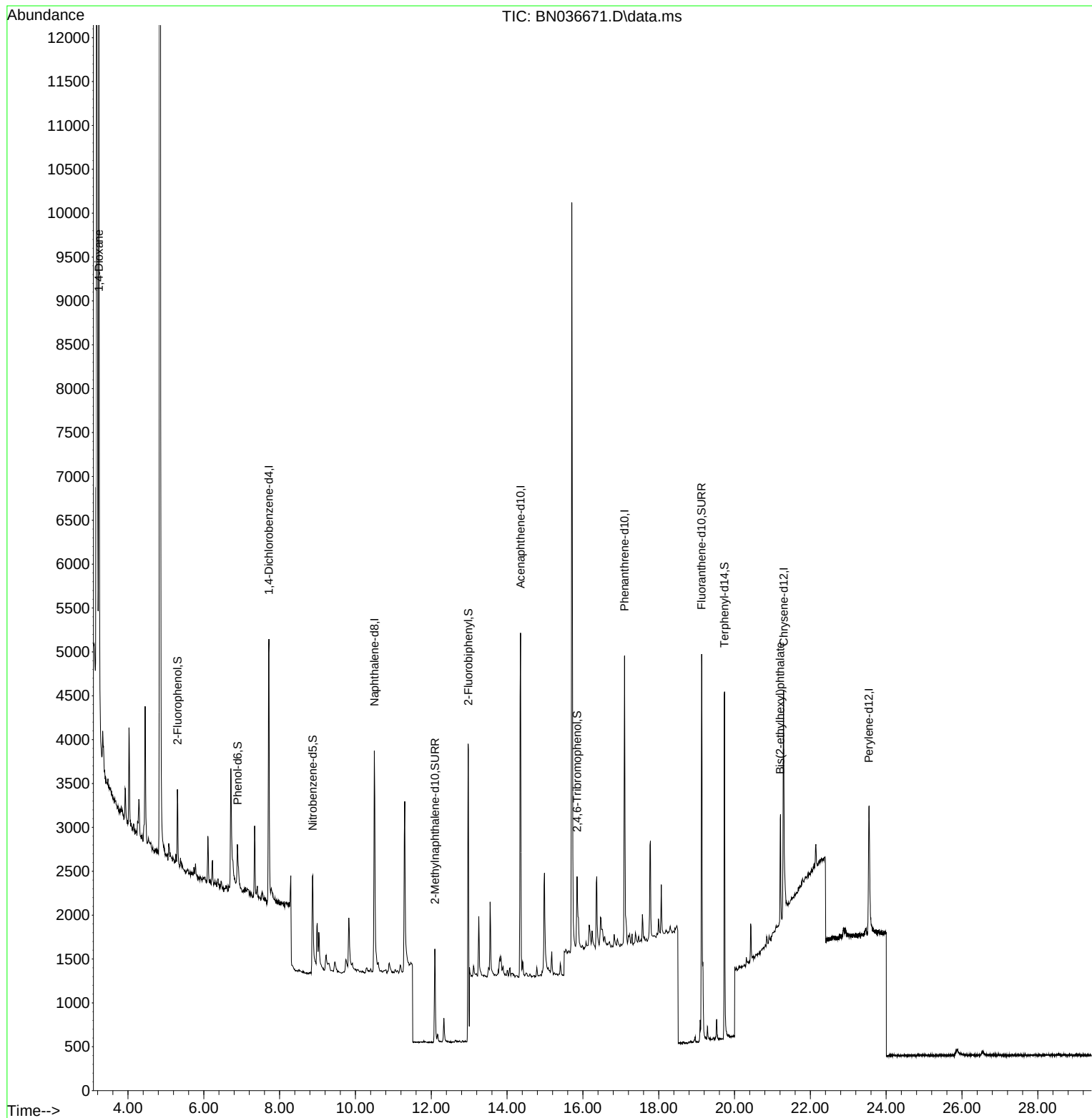
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1476	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	3714	0.400	ng	-0.01
13) Acenaphthene-d10	14.355	164	2273	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	4572	0.400	ng	-0.01
29) Chrysene-d12	21.295	240	3100	0.400	ng	0.00
35) Perylene-d12	23.545	264	2528	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	634	0.184	ng	0.00
5) Phenol-d6	6.894	99	427	0.100	ng	0.00
8) Nitrobenzene-d5	8.875	82	1302	0.322	ng	0.00
11) 2-Methylnaphthalene-d10	12.096	152	1688	0.306	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	452	0.438	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	4445	0.336	ng	-0.01
27) Fluoranthene-d10	19.132	212	5436	0.464	ng	0.00
31) Terphenyl-d14	19.736	244	4076	0.549	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.232	88	4082	2.493	ng	# 90
34) Bis(2-ethylhexyl)phtha...	21.205	149	1400	0.182	ng	99

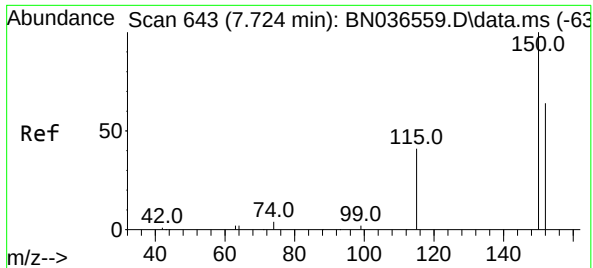
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036671.D
Acq On : 17 Mar 2025 22:51
Operator : RC/JU
Sample : Q1582-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D3-20250313

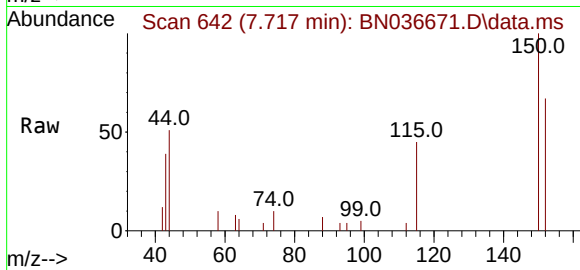
Quant Time: Mar 18 00:56:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



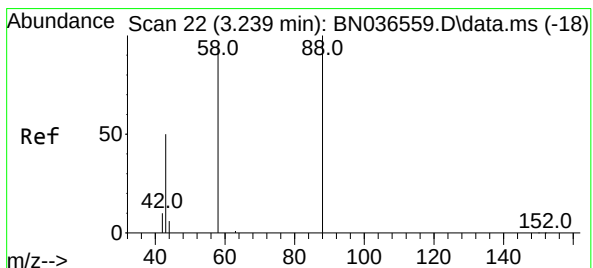
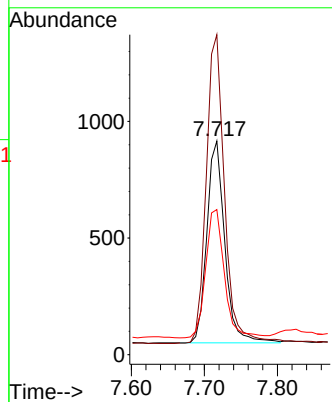
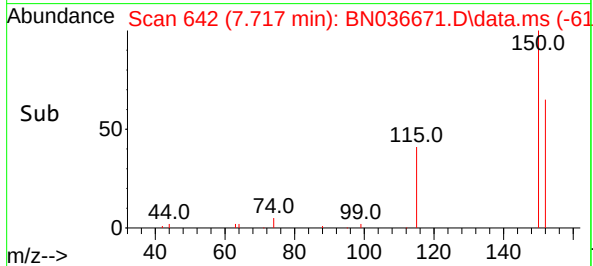


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

Instrument :
BNA_N
ClientSampleId :
RE131D3-20250313

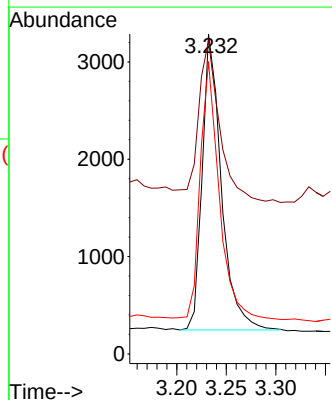
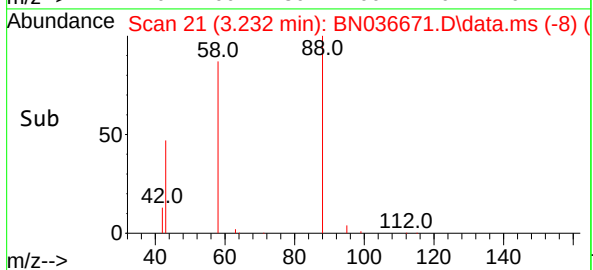
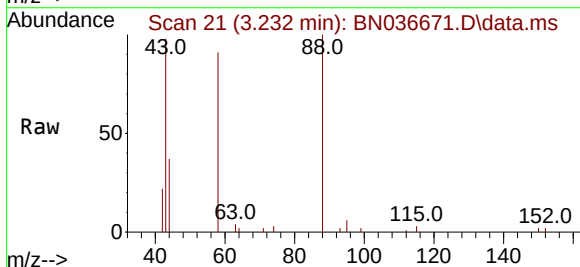


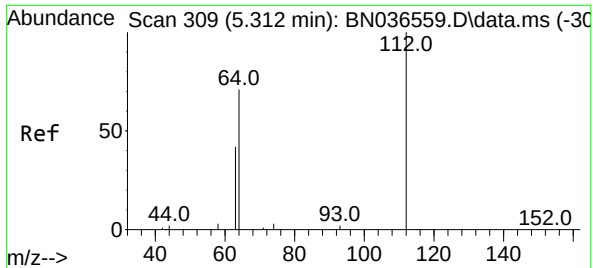
Tgt Ion:152 Resp: 1476
Ion Ratio Lower Upper
152 100
150 149.8 123.7 185.5
115 67.9 54.3 81.5



#2
1,4-Dioxane
Concen: 2.493 ng
RT: 3.232 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

Tgt Ion: 88 Resp: 4082
Ion Ratio Lower Upper
88 100
43 62.2 37.8 56.8#
58 86.6 67.4 101.2

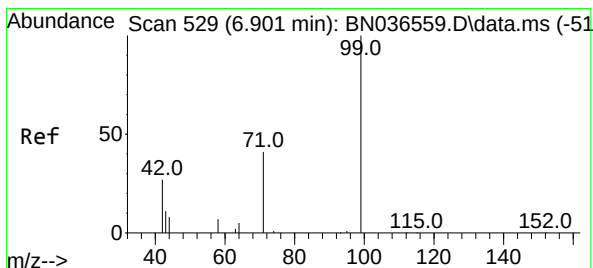
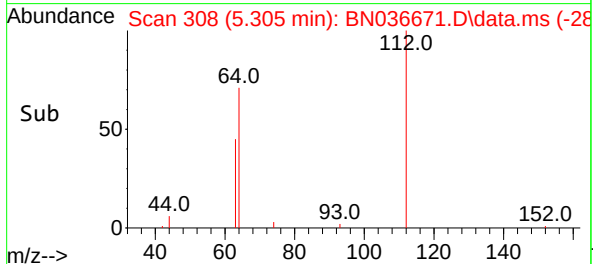
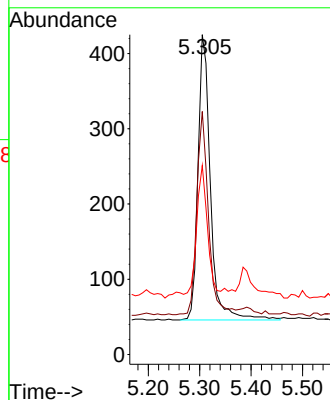
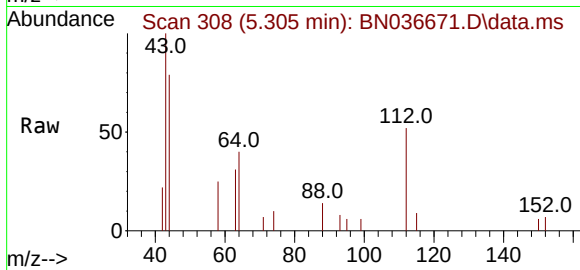




#4
2-Fluorophenol
Concen: 0.184 ng
RT: 5.305 min Scan# 309
Delta R.T. -0.007 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

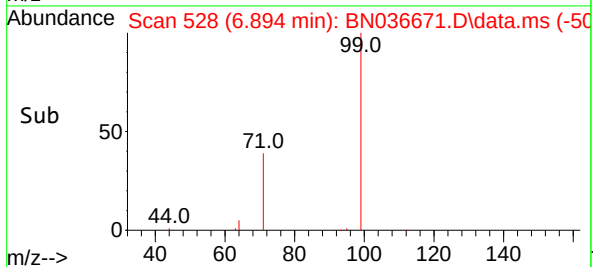
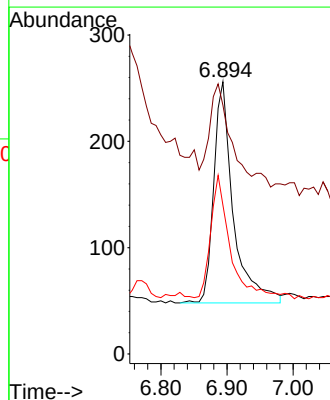
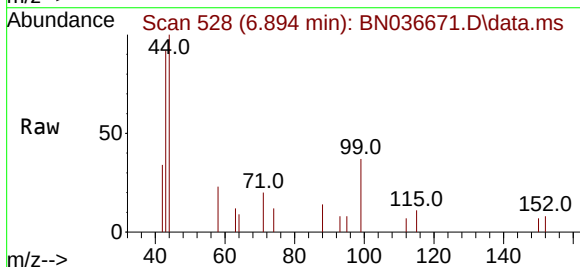
Instrument :
BNA_N
ClientSampleId :
RE131D3-20250313

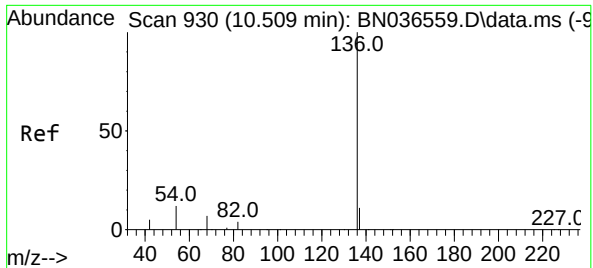
Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.9	53.1	79.7
63	41.5	31.8	47.8



#5
Phenol-d6
Concen: 0.100 ng
RT: 6.894 min Scan# 528
Delta R.T. -0.007 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

Tgt Ion	Ratio	Lower	Upper
99	100		
42	38.9	26.5	39.7
71	56.9	34.1	51.1

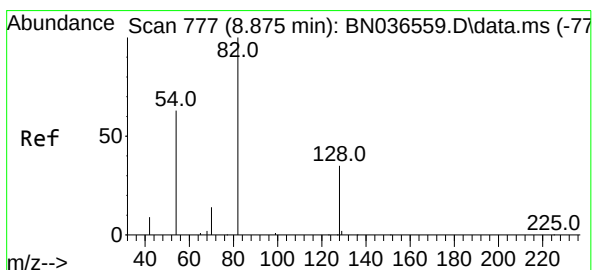
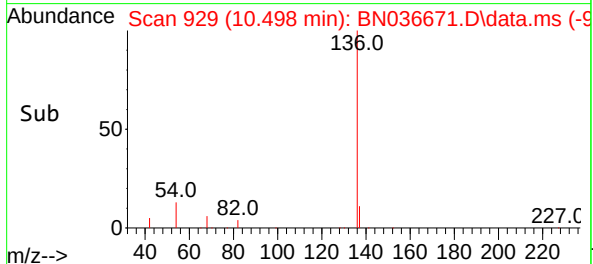
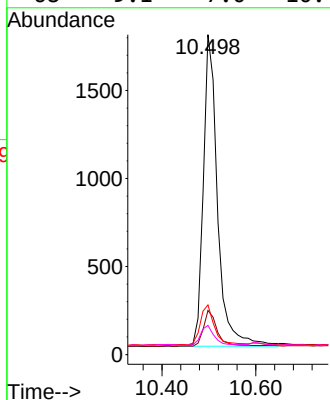
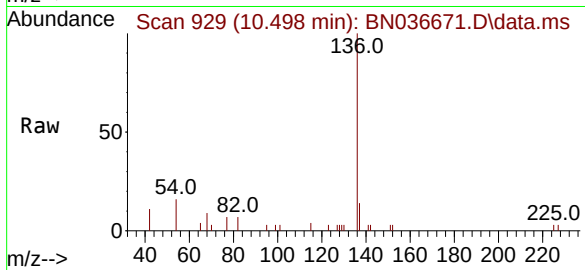




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

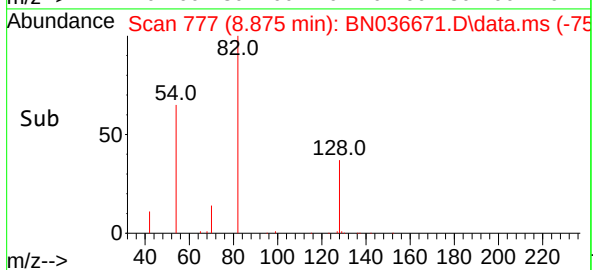
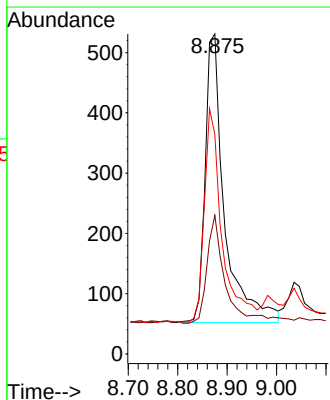
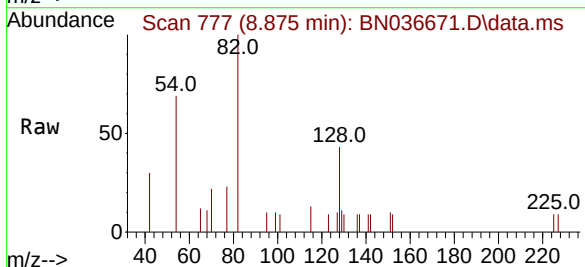
Instrument :
BNA_N
ClientSampleId :
RE131D3-20250313

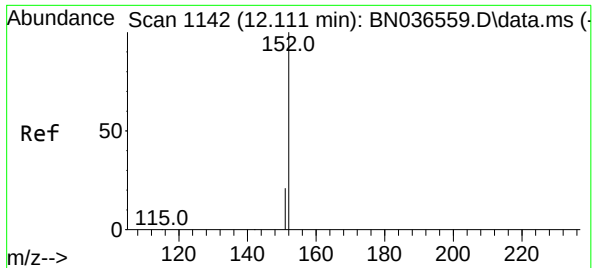
Tgt Ion:	136	Resp:	3714
Ion	Ratio	Lower	Upper
136	100		
137	13.8	10.3	15.5
54	15.5	11.5	17.3
68	9.1	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.322 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

Tgt Ion:	82	Resp:	1302
Ion	Ratio	Lower	Upper
82	100		
128	43.3	30.6	45.8
54	68.5	52.2	78.4

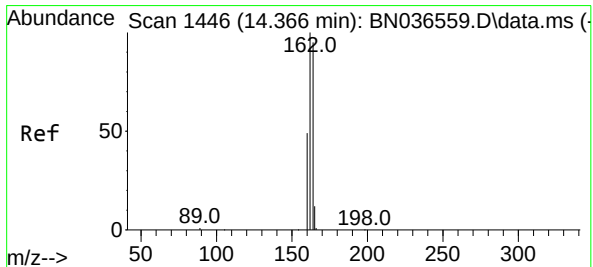
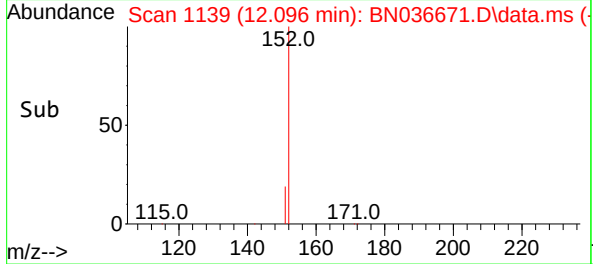
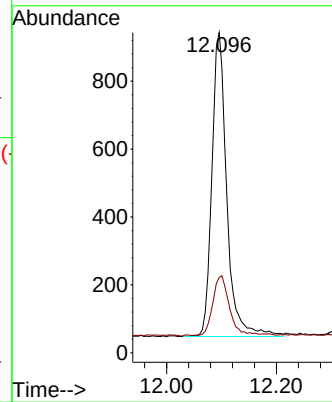
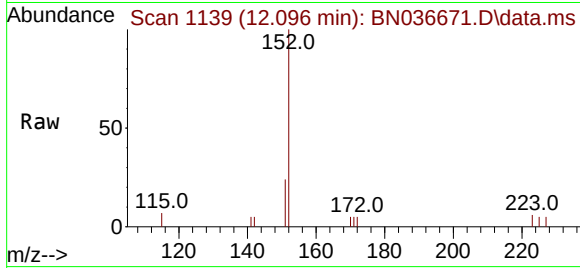




#11
2-Methylnaphthalene-d10
Concen: 0.306 ng
RT: 12.096 min Scan# 1142
Delta R.T. -0.015 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

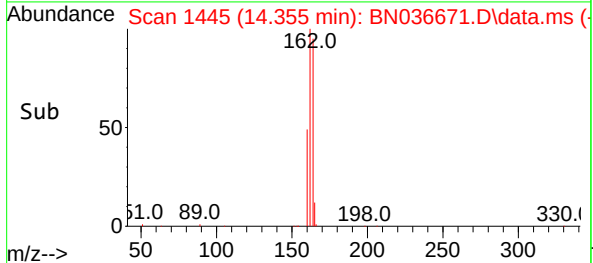
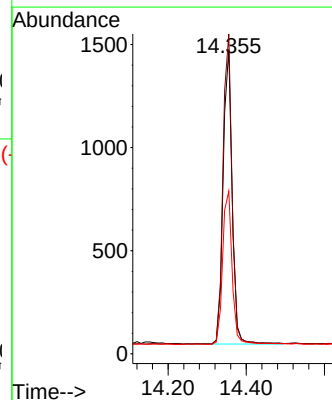
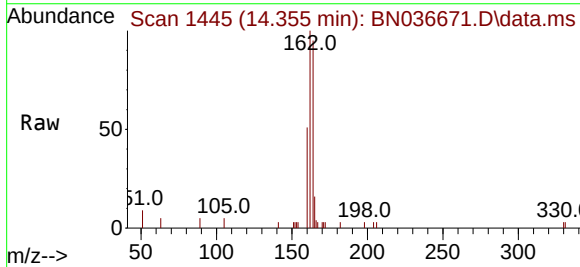
Instrument :
BNA_N
ClientSampleId :
RE131D3-20250313

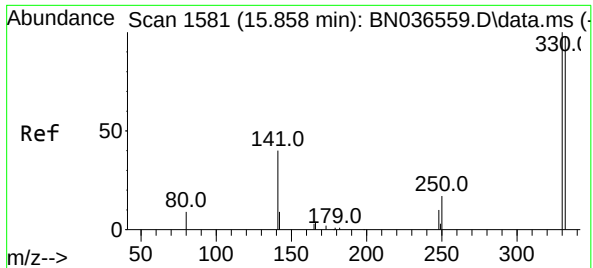
Tgt Ion:152 Resp: 1688
Ion Ratio Lower Upper
152 100
151 21.6 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

Tgt Ion:164 Resp: 2273
Ion Ratio Lower Upper
164 100
162 105.2 84.2 126.2
160 53.5 42.2 63.2

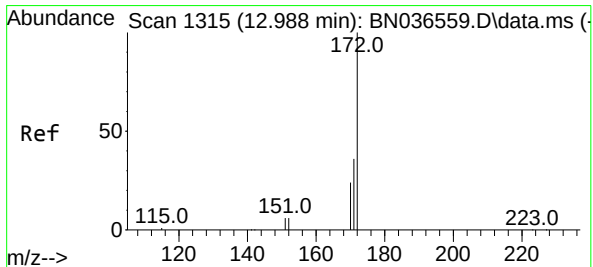
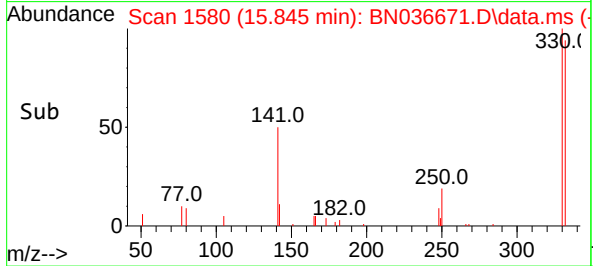
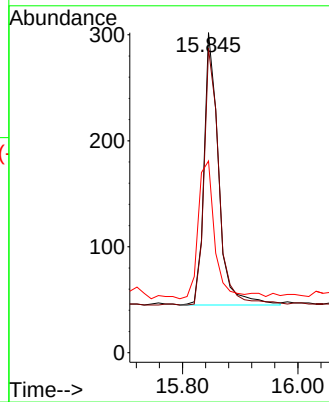
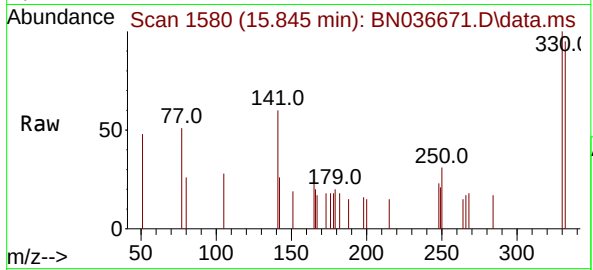




#14
2,4,6-Tribromophenol
Concen: 0.438 ng
RT: 15.845 min Scan# 11
Delta R.T. -0.012 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

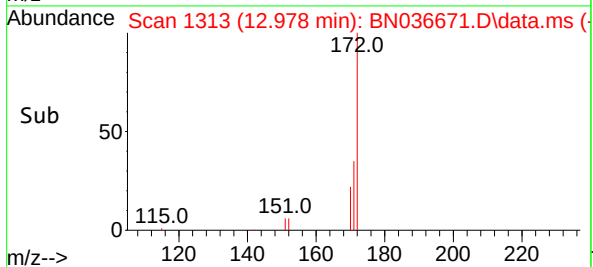
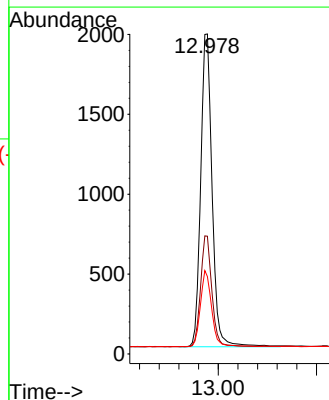
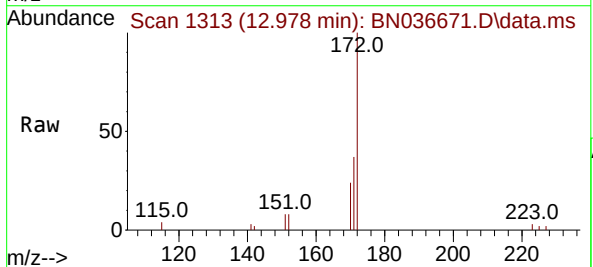
Instrument :
BNA_N
ClientSampleId :
RE131D3-20250313

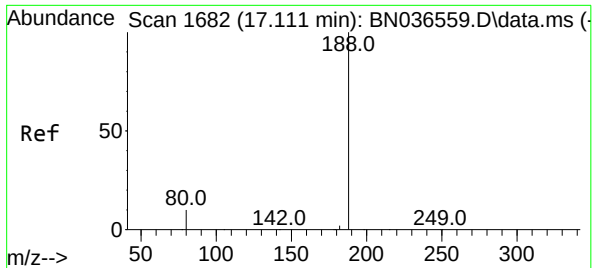
Tgt Ion:330 Resp: 452
Ion Ratio Lower Upper
330 100
332 96.5 75.2 112.8
141 59.1 43.4 65.2



#15
2-Fluorobiphenyl
Concen: 0.336 ng
RT: 12.978 min Scan# 1313
Delta R.T. -0.010 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

Tgt Ion:172 Resp: 4445
Ion Ratio Lower Upper
172 100
171 36.8 29.5 44.3
170 24.2 20.2 30.4





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN036671.D

Acq: 17 Mar 2025 22:51

Instrument :

BNA_N

ClientSampleId :

RE131D3-20250313

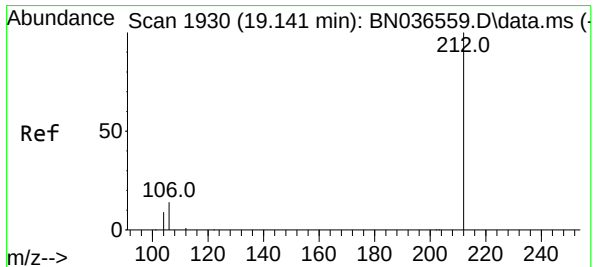
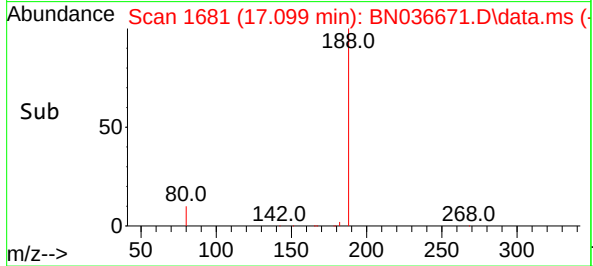
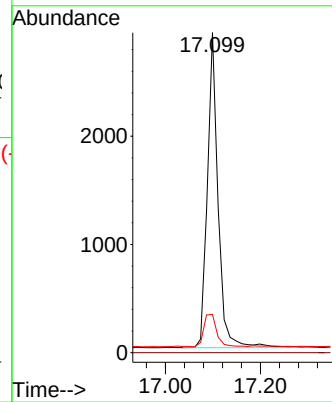
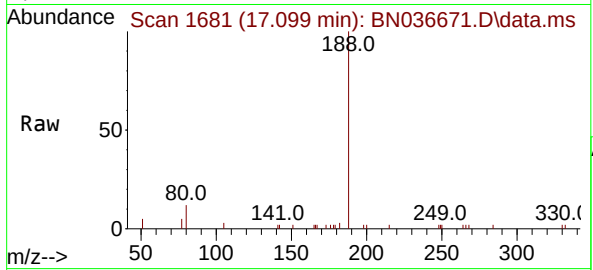
Tgt Ion:188 Resp: 4572

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.9 8.8 13.2



#27

Fluoranthene-d10

Concen: 0.464 ng

RT: 19.132 min Scan# 1928

Delta R.T. -0.009 min

Lab File: BN036671.D

Acq: 17 Mar 2025 22:51

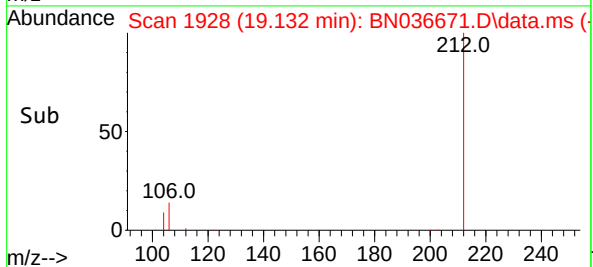
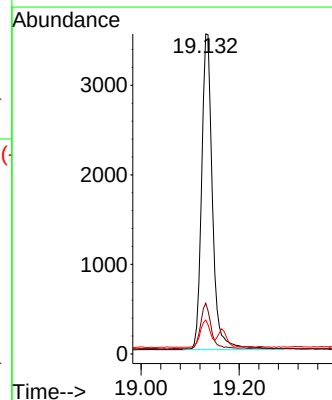
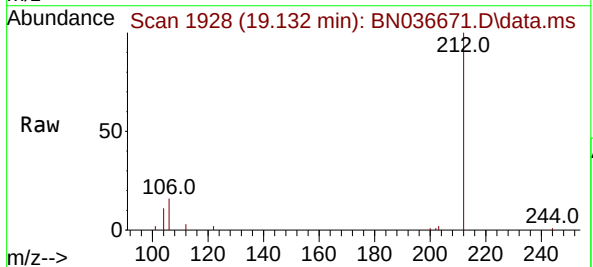
Tgt Ion:212 Resp: 5436

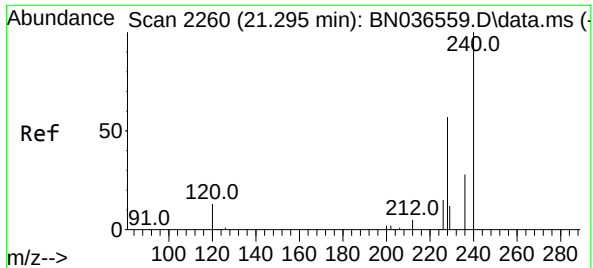
Ion Ratio Lower Upper

212 100

106 13.9 11.8 17.6

104 8.0 7.3 10.9

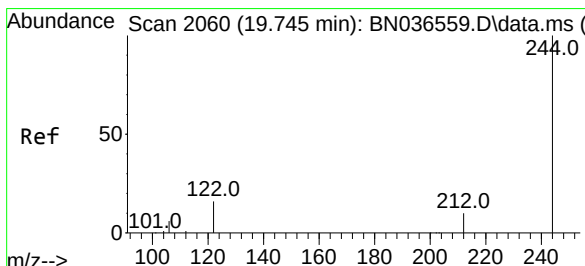
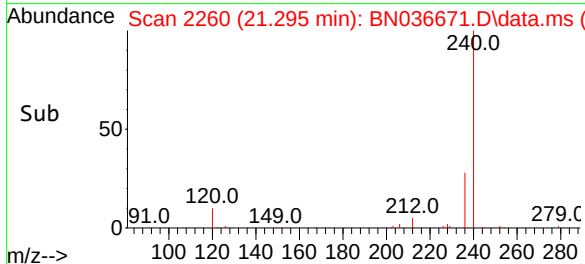
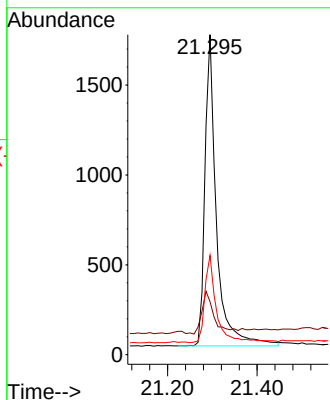
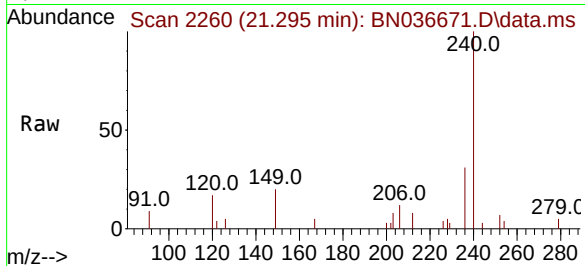




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

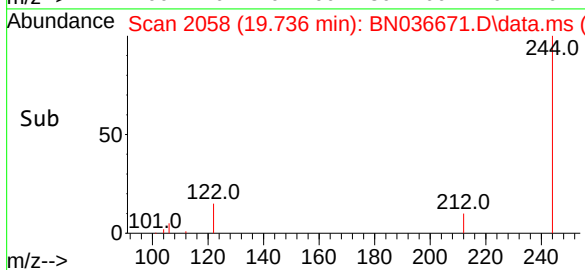
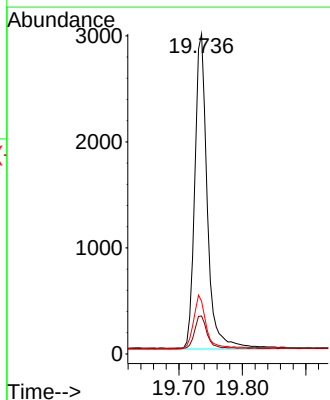
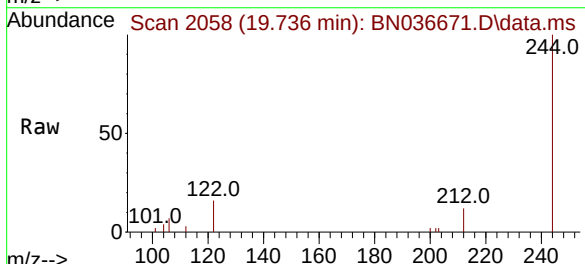
Instrument :
BNA_N
ClientSampleId :
RE131D3-20250313

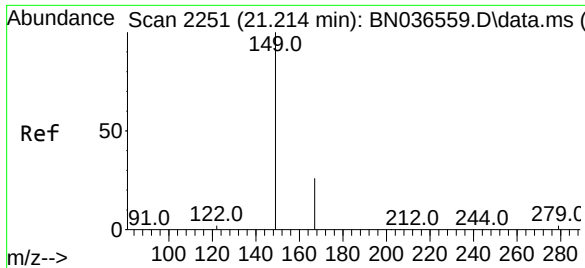
Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.6	14.6	22.0
236	31.1	24.1	36.1



#31
Terphenyl-d14
Concen: 0.549 ng
RT: 19.736 min Scan# 2058
Delta R.T. -0.009 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.8	9.6	14.4
122	16.5	13.9	20.9

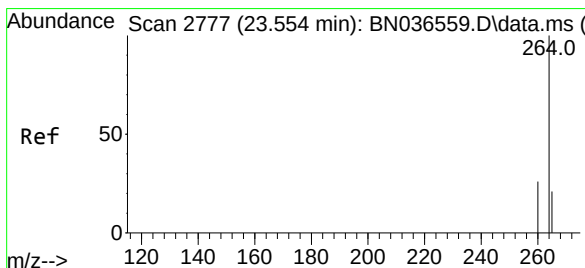
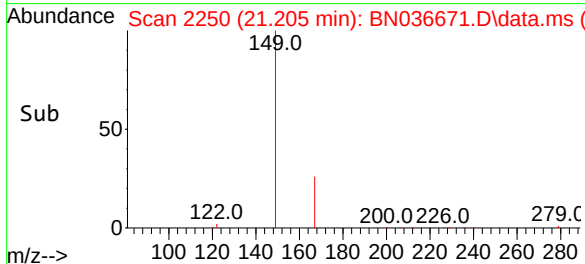
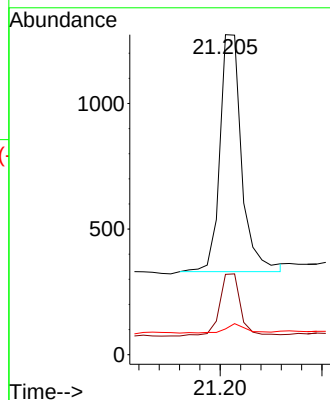
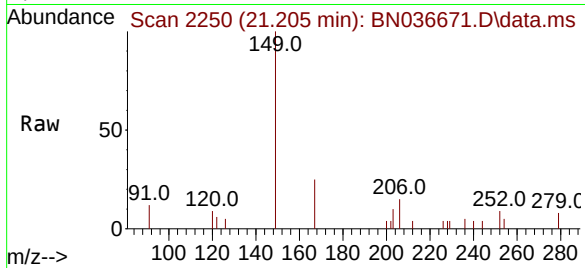




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.182 ng
RT: 21.205 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

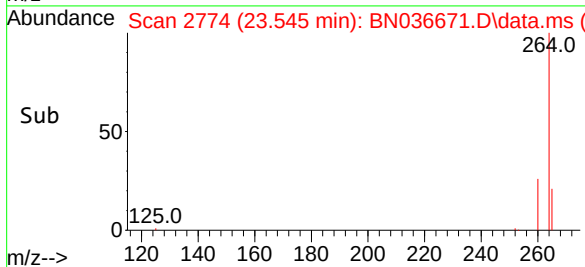
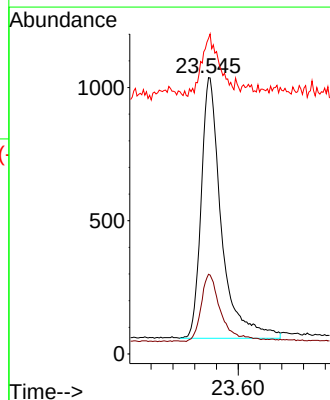
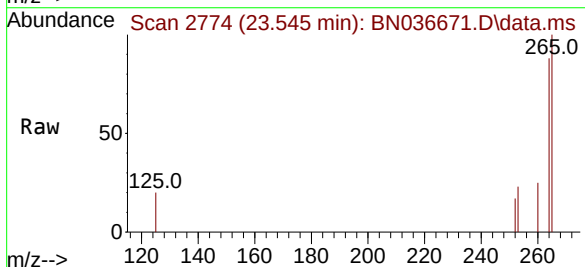
Instrument :
BNA_N
ClientSampleId :
RE131D3-20250313

Tgt Ion:149 Resp: 1400
Ion Ratio Lower Upper
149 100
167 25.2 20.7 31.1
279 3.9 3.6 5.4



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.545 min Scan# 2774
Delta R.T. -0.009 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

Tgt Ion:264 Resp: 2528
Ion Ratio Lower Upper
264 100
260 28.8 22.6 33.8
265 114.2 88.1 132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	TT119S1-20250313	SDG No.:	Q1582
Lab Sample ID:	Q1582-09	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
BN036672.D	1	03/17/25 08:48	03/17/25 23:27	PB167159

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	0.29		30 - 150		73%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		110%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		123%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1720	7.717				
1146-65-2	Naphthalene-d8	4150	10.498				
15067-26-2	Acenaphthene-d10	2560	14.355				
1517-22-2	Phenanthrene-d10	5110	17.099				
1719-03-5	Chrysene-d12	3480	21.295				
1520-96-3	Perylene-d12	2790	23.545				

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\BN031725\
Data File : BN036672.D
Acq On : 17 Mar 2025 23:27
Operator : RC/JU
Sample : Q1582-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250313

Quant Time: Mar 18 00:56:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

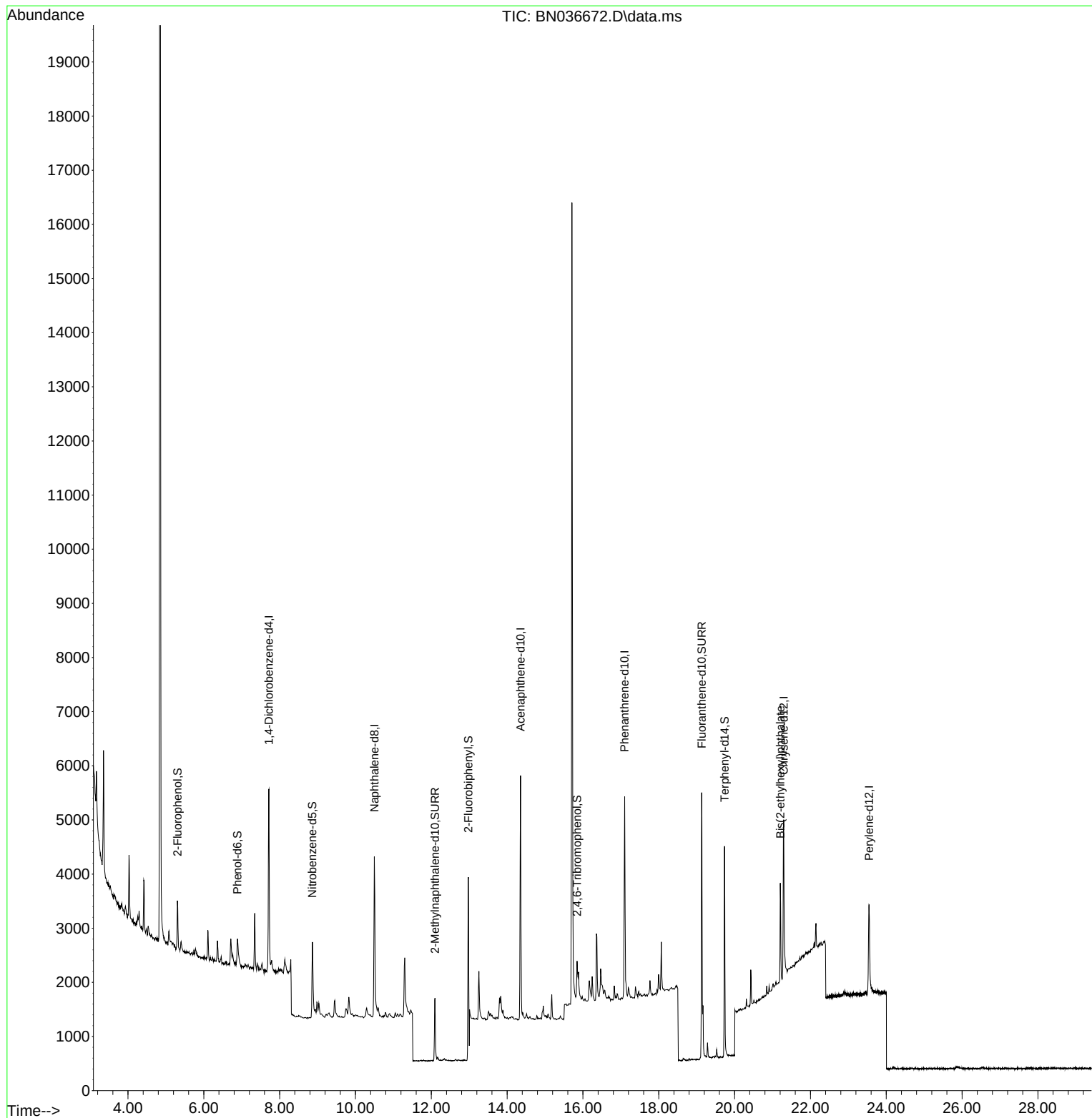
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1721	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4150	0.400	ng	-0.01
13) Acenaphthene-d10	14.355	164	2557	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	5105	0.400	ng	-0.01
29) Chrysene-d12	21.295	240	3477	0.400	ng	0.00
35) Perylene-d12	23.545	264	2786	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	616	0.154	ng	0.00
5) Phenol-d6	6.886	99	439	0.089	ng	-0.01
8) Nitrobenzene-d5	8.864	82	1367	0.303	ng	-0.01
11) 2-Methylnaphthalene-d10	12.096	152	1800	0.292	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	422	0.364	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	4567	0.307	ng	-0.01
27) Fluoranthene-d10	19.132	212	5739	0.439	ng	0.00
31) Terphenyl-d14	19.736	244	4110	0.493	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.205	149	1938	0.225	ng	Qvalue # 93

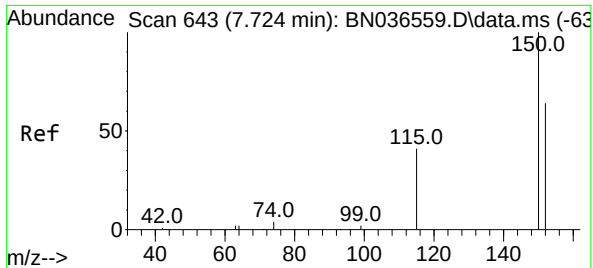
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036672.D
Acq On : 17 Mar 2025 23:27
Operator : RC/JU
Sample : Q1582-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250313

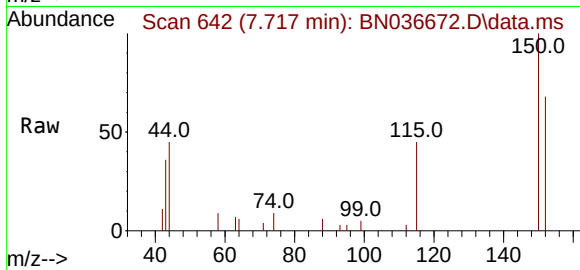
Quant Time: Mar 18 00:56:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



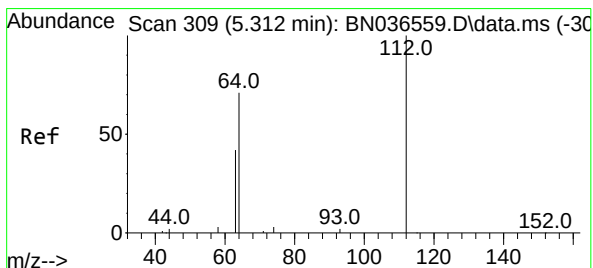
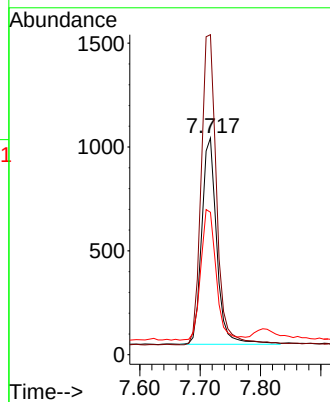
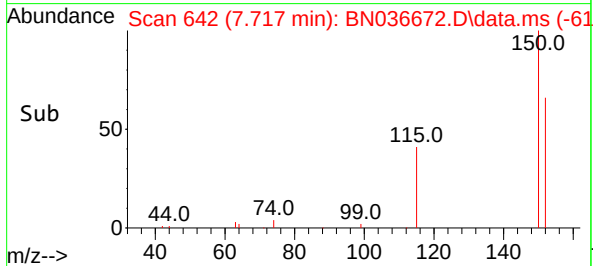


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250313

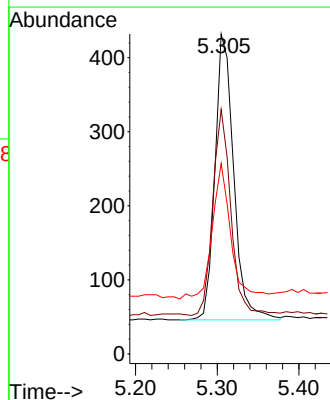
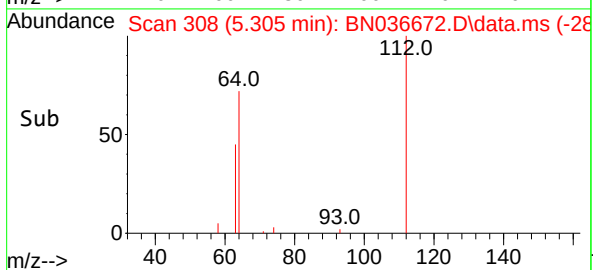
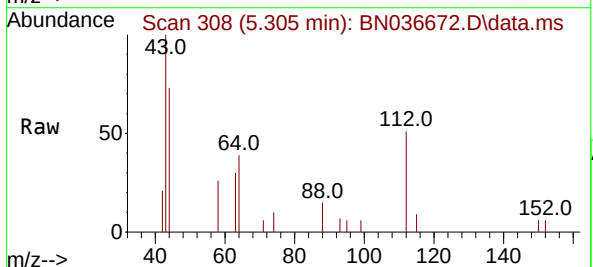


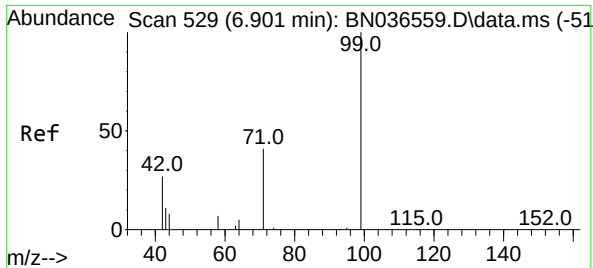
Tgt Ion:152 Resp: 1721
Ion Ratio Lower Upper
152 100
150 147.7 123.7 185.5
115 65.8 54.3 81.5



#4
2-Fluorophenol
Concen: 0.154 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.007 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

Tgt Ion:112 Resp: 616
Ion Ratio Lower Upper
112 100
64 69.6 53.1 79.7
63 47.4 31.8 47.8

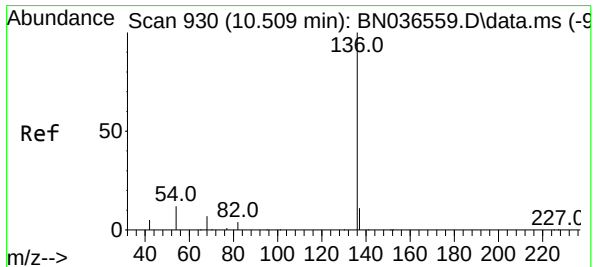
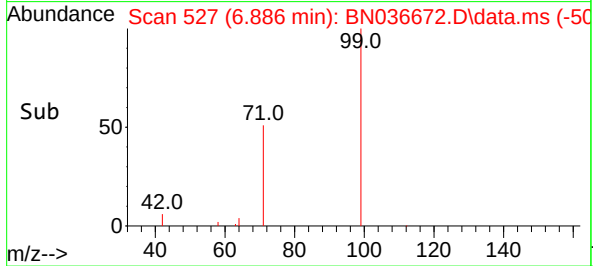
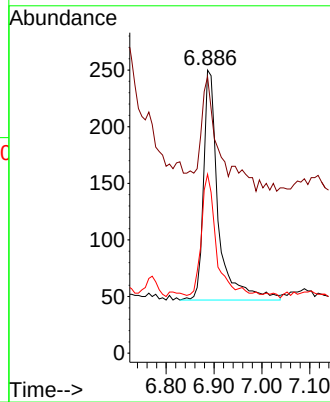
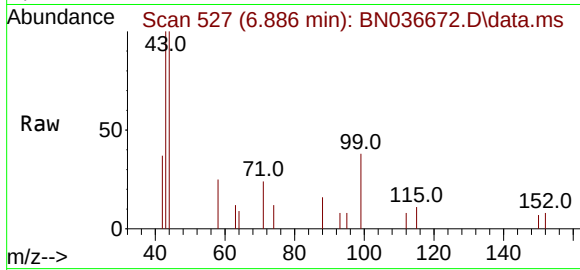




#5
Phenol-d6
Concen: 0.089 ng
RT: 6.886 min Scan# 51
Delta R.T. -0.014 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

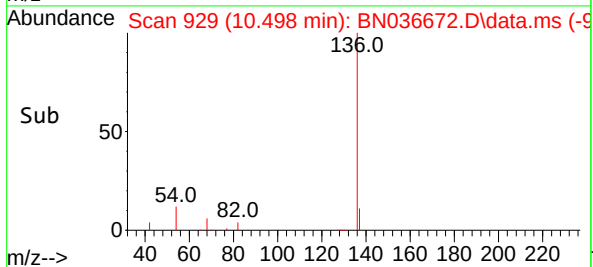
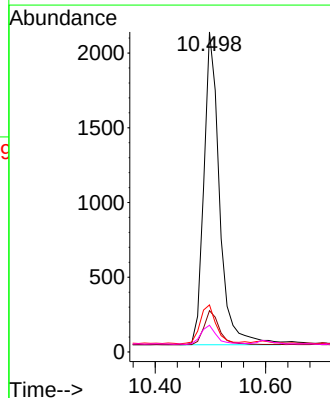
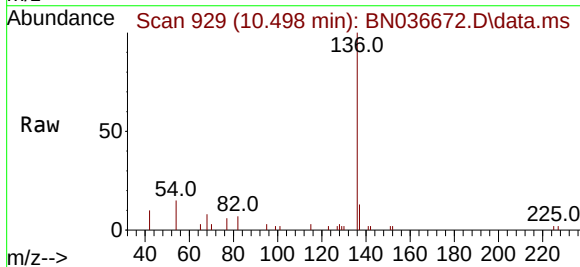
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250313

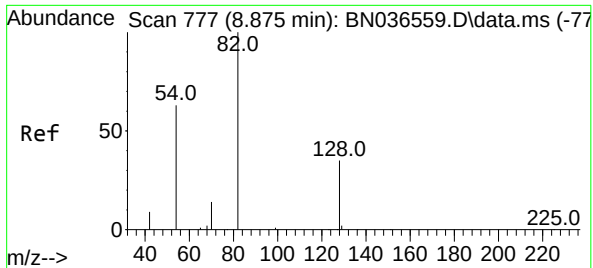
Tgt Ion: 99 Resp: 439
Ion Ratio Lower Upper
99 100
42 34.9 26.5 39.7
71 52.6 34.1 51.1#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. -0.011 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

Tgt Ion: 136 Resp: 4150
Ion Ratio Lower Upper
136 100
137 12.9 10.3 15.5
54 14.7 11.5 17.3
68 8.4 7.0 10.4

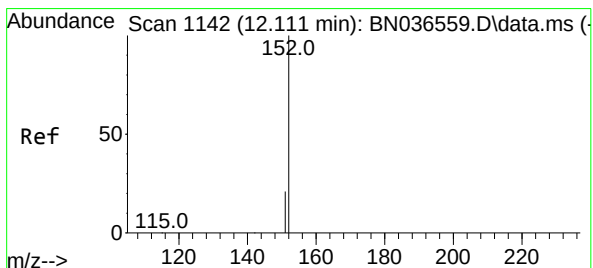
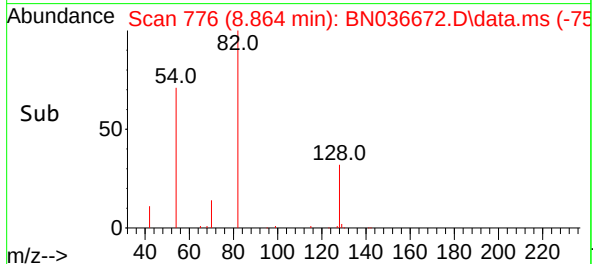
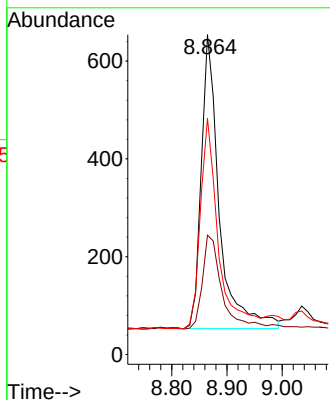
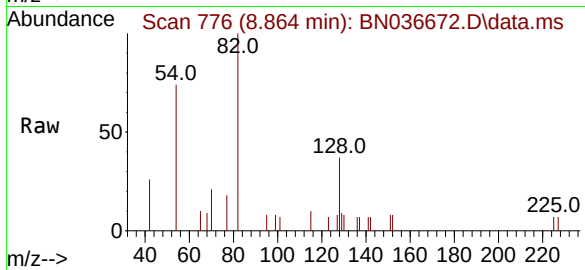




#8
Nitrobenzene-d5
Concen: 0.303 ng
RT: 8.864 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

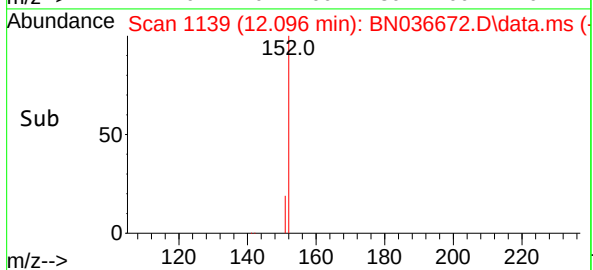
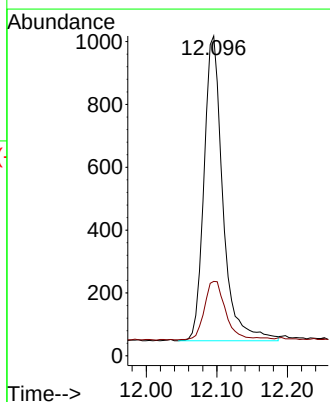
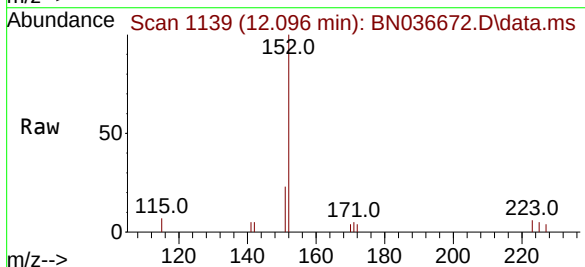
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250313

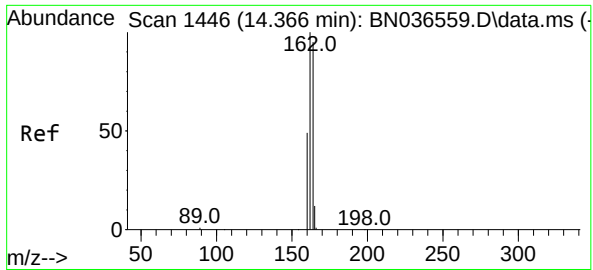
Tgt Ion: 82 Resp: 1367
Ion Ratio Lower Upper
82 100
128 37.3 30.6 45.8
54 73.9 52.2 78.4



#11
2-Methylnaphthalene-d10
Concen: 0.292 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

Tgt Ion: 152 Resp: 1800
Ion Ratio Lower Upper
152 100
151 21.8 17.0 25.6

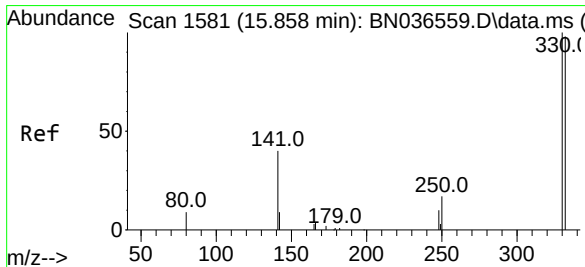
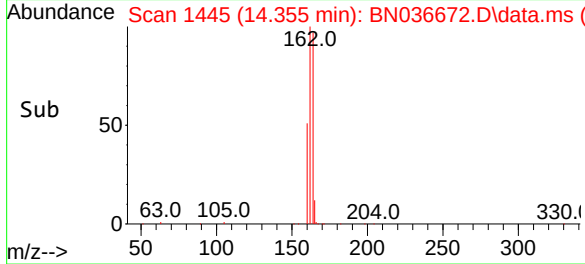
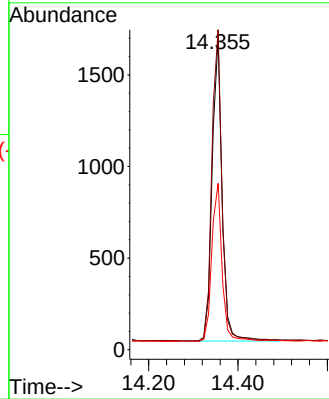
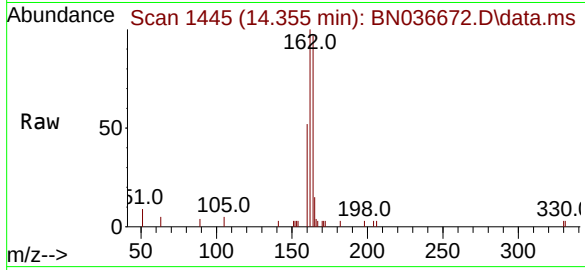




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1446
Delta R.T. -0.011 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

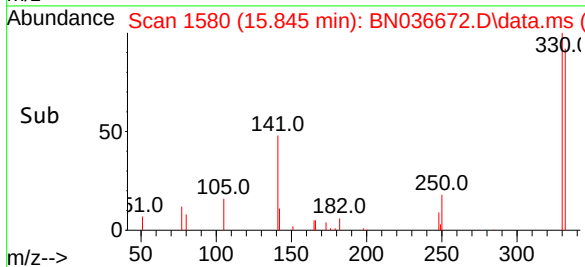
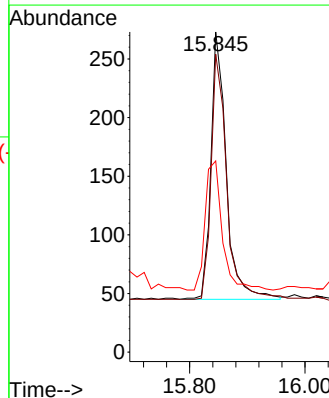
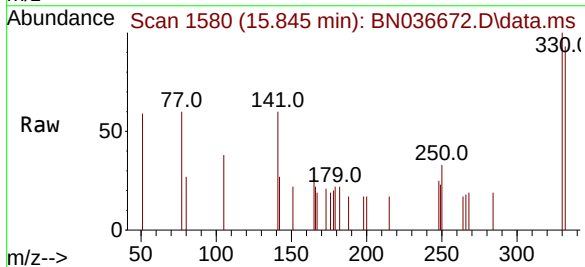
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250313

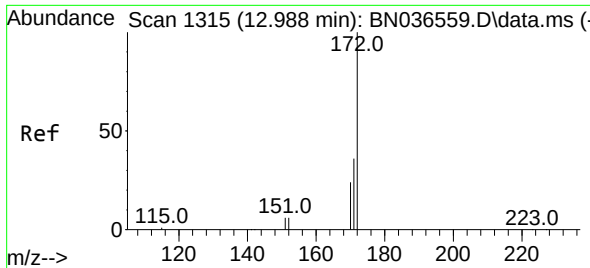
Tgt Ion:164 Resp: 2557
Ion Ratio Lower Upper
164 100
162 102.6 84.2 126.2
160 53.4 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.364 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

Tgt Ion:330 Resp: 422
Ion Ratio Lower Upper
330 100
332 93.1 75.2 112.8
141 53.6 43.4 65.2

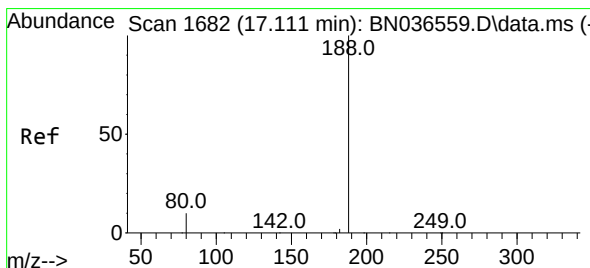
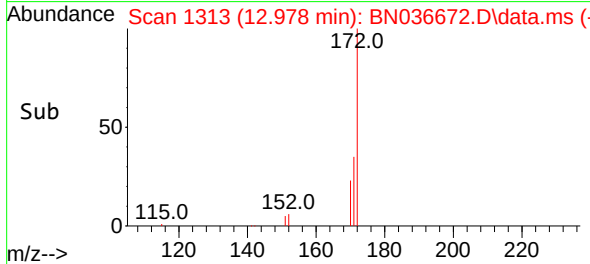
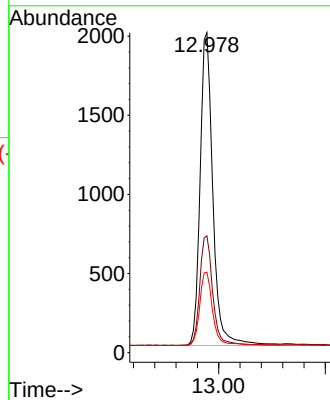
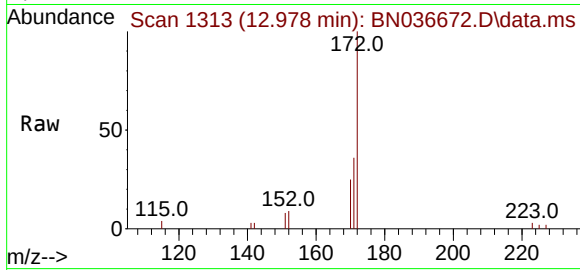




#15
2-Fluorobiphenyl
Concen: 0.307 ng
RT: 12.978 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

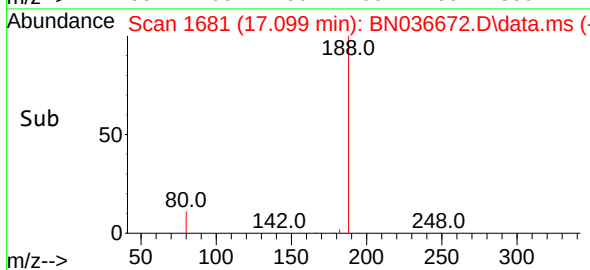
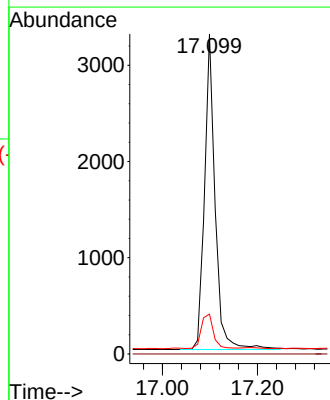
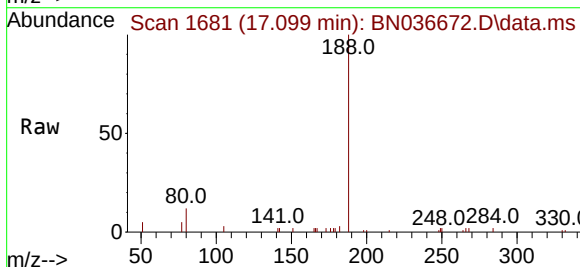
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250313

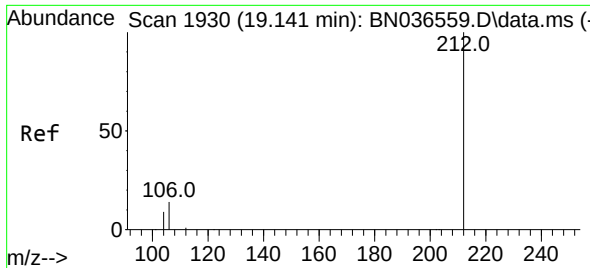
Tgt Ion:	172	Resp:	4567
Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.5	44.3
170	25.1	20.2	30.4



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

Tgt Ion:	188	Resp:	5105
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.4	8.8	13.2





#27

Fluoranthene-d10

Concen: 0.439 ng

RT: 19.132 min Scan# 19

Delta R.T. -0.009 min

Lab File: BN036672.D

Acq: 17 Mar 2025 23:27

Instrument :

BNA_N

ClientSampleId :

TT119S1-20250313

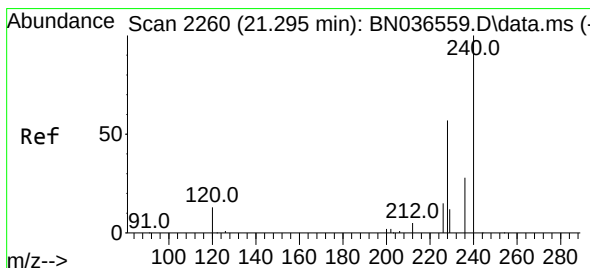
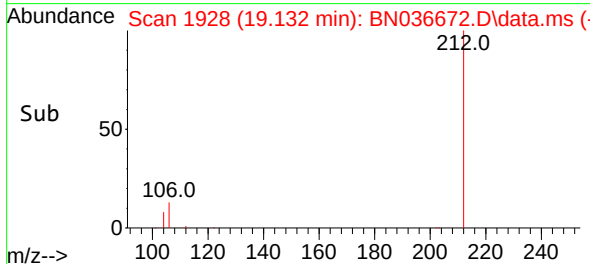
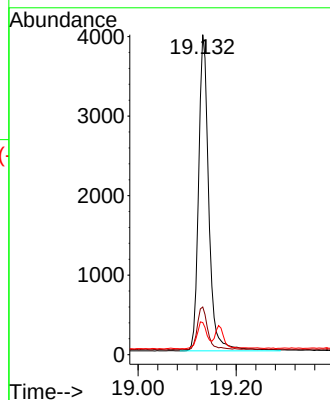
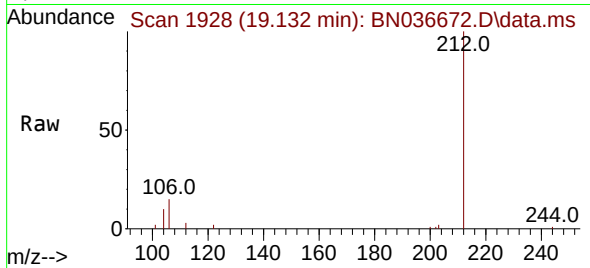
Tgt Ion:212 Resp: 5739

Ion Ratio Lower Upper

212 100

106 13.9 11.8 17.6

104 8.4 7.3 10.9



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 2260

Delta R.T. -0.000 min

Lab File: BN036672.D

Acq: 17 Mar 2025 23:27

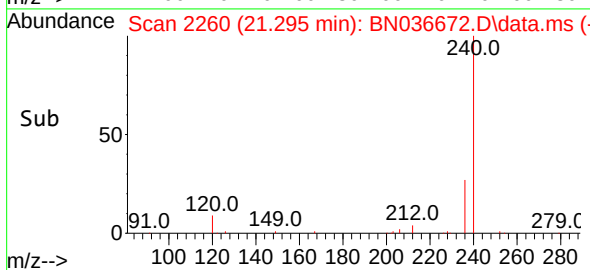
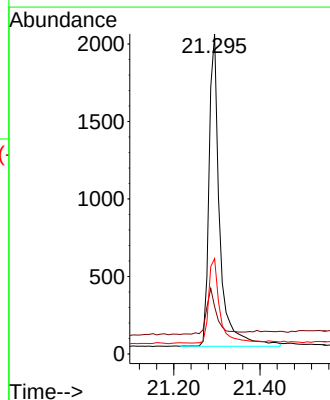
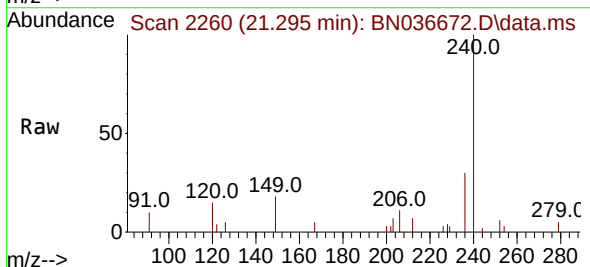
Tgt Ion:240 Resp: 3477

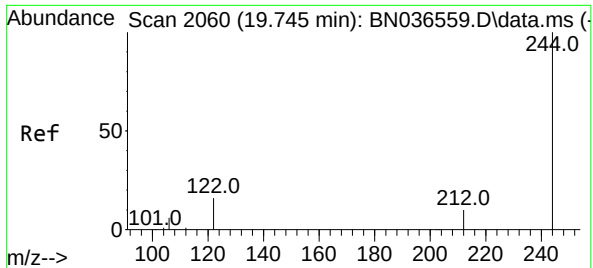
Ion Ratio Lower Upper

240 100

120 14.8 14.6 22.0

236 29.8 24.1 36.1

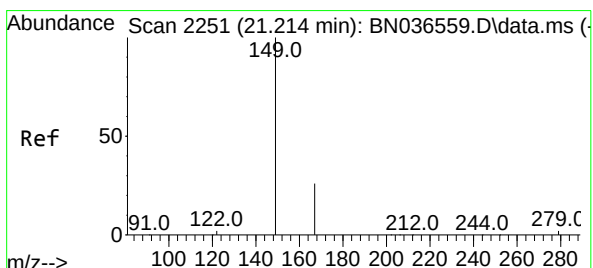
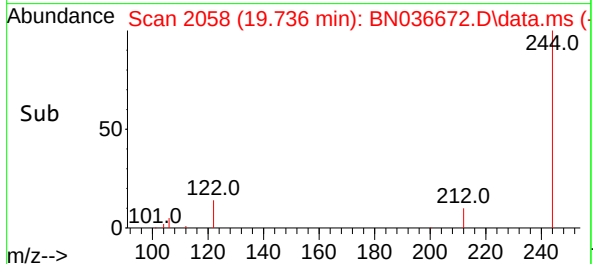
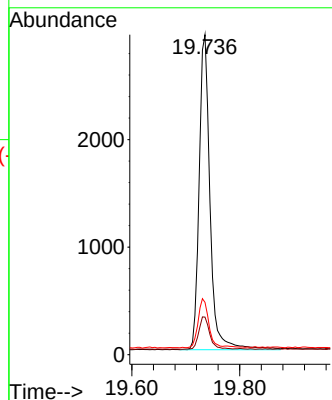
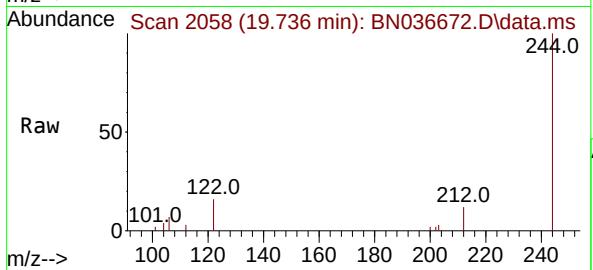




#31
Terphenyl-d14
Concen: 0.493 ng
RT: 19.736 min Scan# 2060
Delta R.T. -0.009 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

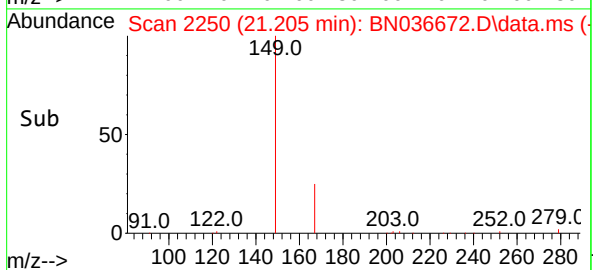
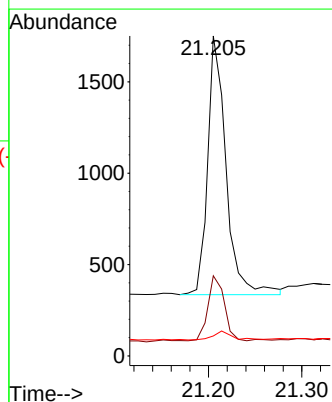
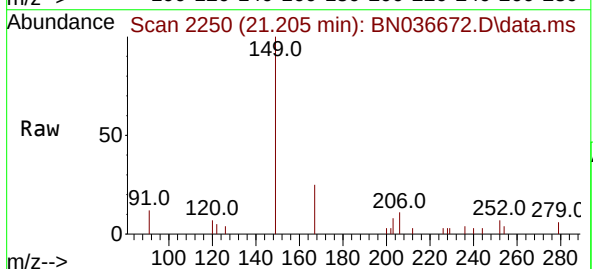
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250313

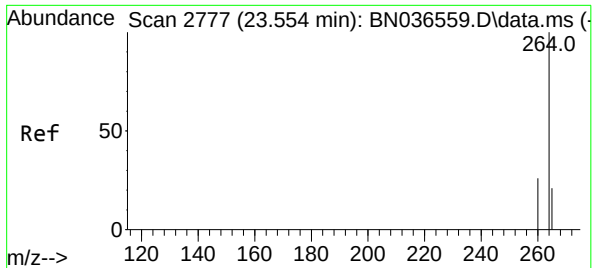
Tgt Ion:244 Resp: 4110
Ion Ratio Lower Upper
244 100
212 11.8 9.6 14.4
122 16.3 13.9 20.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.225 ng
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

Tgt Ion:149 Resp: 1938
Ion Ratio Lower Upper
149 100
167 22.2 20.7 31.1
279 3.6 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.545 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036672.D

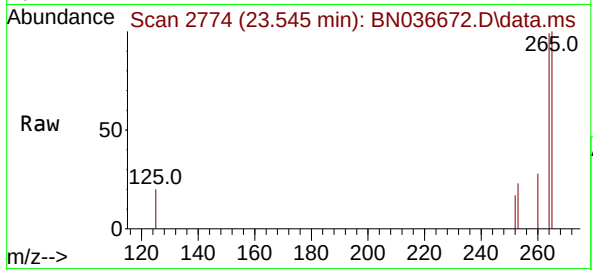
Acq: 17 Mar 2025 23:27

Instrument :

BNA_N

ClientSampleId :

TT119S1-20250313



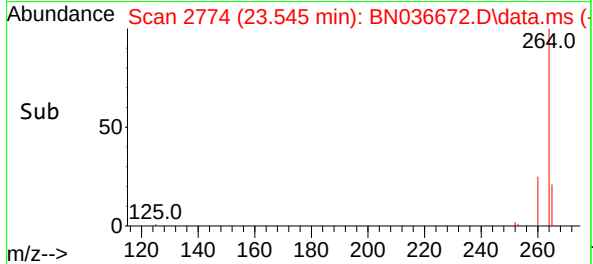
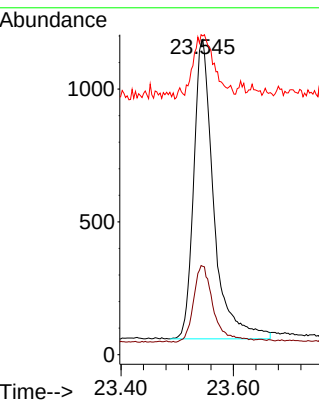
Tgt Ion:264 Resp: 2786

Ion	Ratio	Lower	Upper
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264	100		
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260	28.1	22.6	33.8
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265	101.2	88.1	132.1
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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	RE114D1-20250313	SDG No.:	Q1582
Lab Sample ID:	Q1582-10	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
BN036673.D	1	03/17/25 08:48	03/18/25 00:03	PB167159

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	0.24		30 - 150		61%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.25		55 - 111		63%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		53 - 106		67%	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	1660	7.717				
1146-65-2	Naphthalene-d8	4100	10.498				
15067-26-2	Acenaphthene-d10	2450	14.355				
1517-22-2	Phenanthrene-d10	5060	17.099				
1719-03-5	Chrysene-d12	3830	21.295				
1520-96-3	Perylene-d12	3190	23.546				

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\BN031725\
Data File : BN036673.D
Acq On : 18 Mar 2025 00:03
Operator : RC/JU
Sample : Q1582-10
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE114D1-20250313

Quant Time: Mar 18 00:57:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

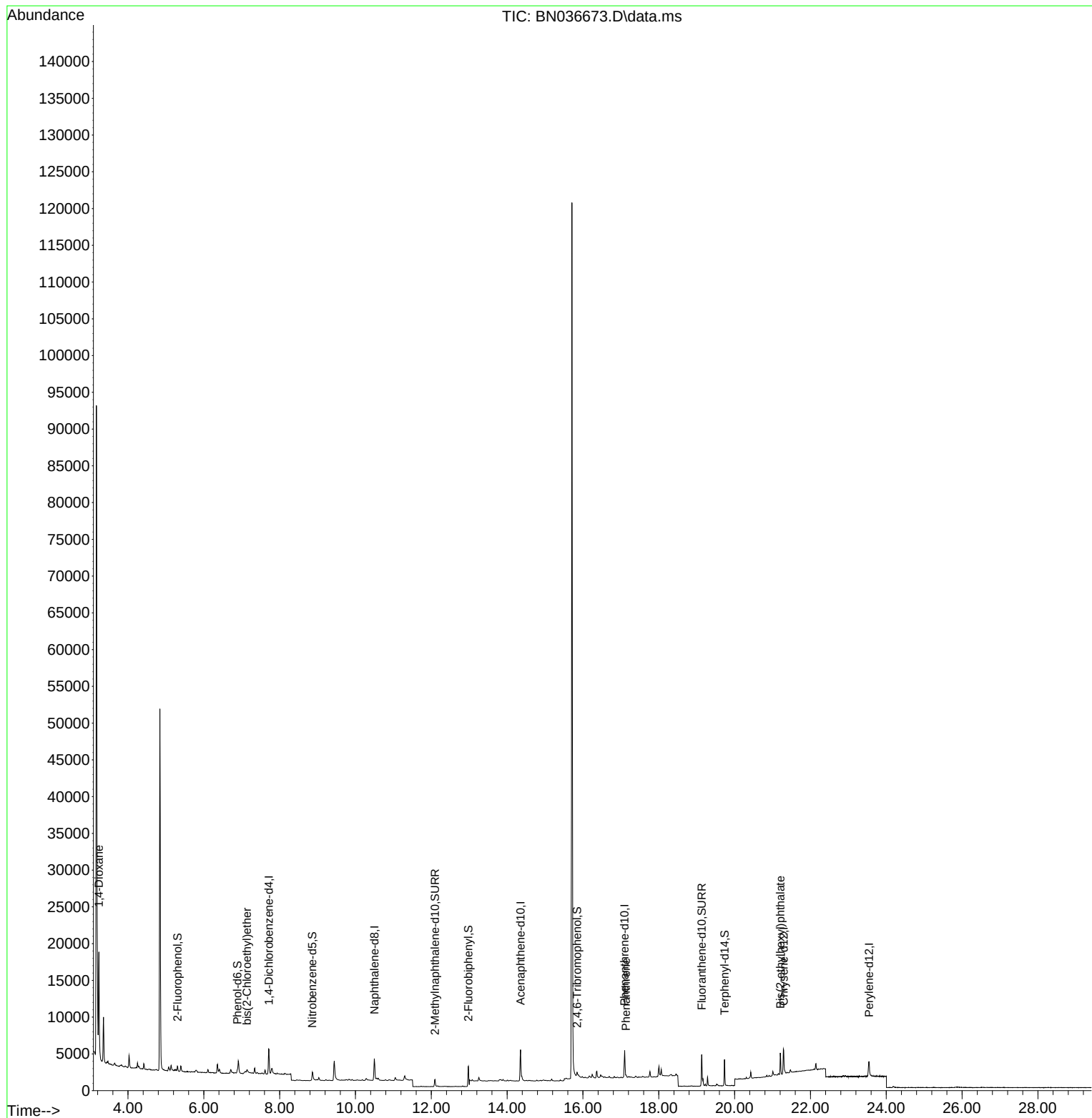
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1655	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4102	0.400	ng	-0.01
13) Acenaphthene-d10	14.355	164	2453	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	5059	0.400	ng	-0.01
29) Chrysene-d12	21.295	240	3831	0.400	ng	# 0.00
35) Perylene-d12	23.546	264	3185	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	514	0.133	ng	0.00
5) Phenol-d6	6.887	99	386	0.081	ng	-0.01
8) Nitrobenzene-d5	8.865	82	1129	0.253	ng	-0.01
11) 2-Methylnaphthalene-d10	12.096	152	1481	0.243	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	348	0.313	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	3792	0.266	ng	-0.01
27) Fluoranthene-d10	19.132	212	4901	0.378	ng	0.00
31) Terphenyl-d14	19.736	244	3551	0.387	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.232	88	7300	3.976	ng	Qvalue 94
6) bis(2-Chloroethyl)ether	7.139	93	243	0.049	ng	# 86
25) Phenanthrene	17.136	178	309	0.020	ng	# 72
34) Bis(2-ethylhexyl)phtha...	21.205	149	2781	0.293	ng	# 97

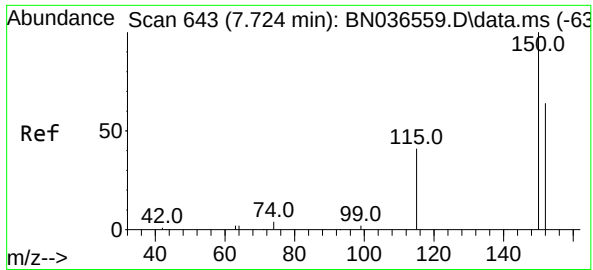
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036673.D
Acq On : 18 Mar 2025 00:03
Operator : RC/JU
Sample : Q1582-10
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE114D1-20250313

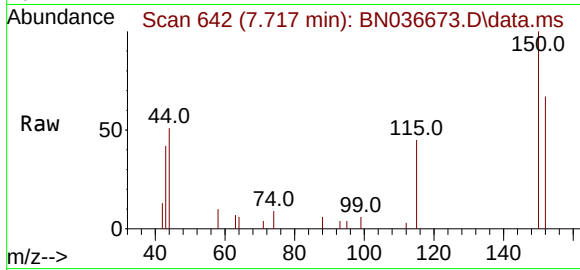
Quant Time: Mar 18 00:57:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



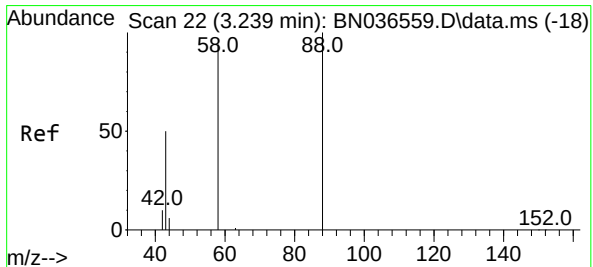
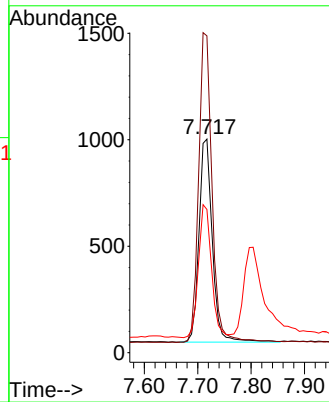
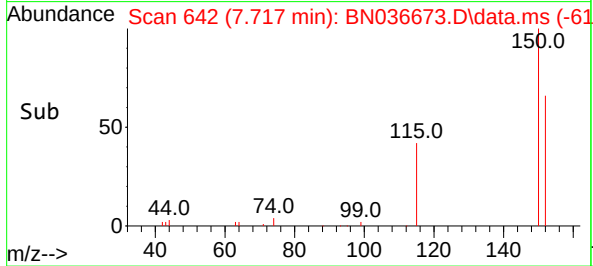


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

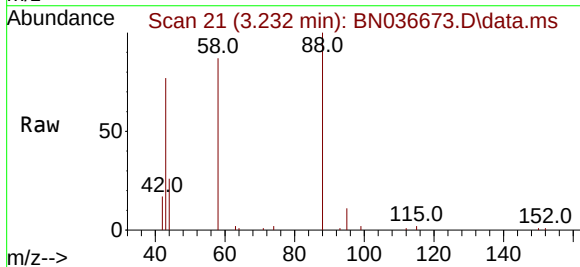
Instrument :
BNA_N
ClientSampleId :
RE114D1-20250313



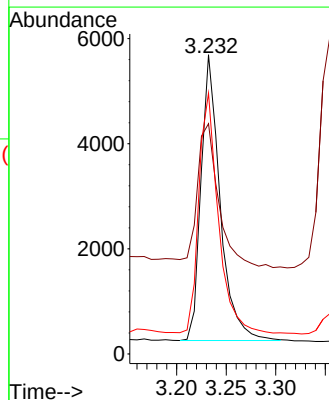
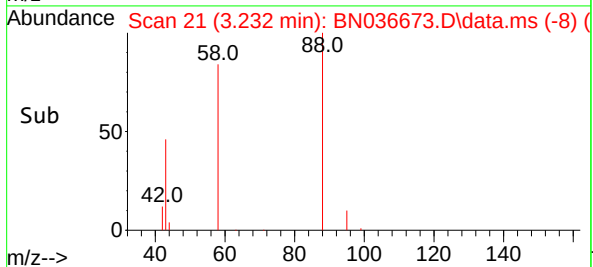
Tgt Ion:152 Resp: 1655
Ion Ratio Lower Upper
152 100
150 148.4 123.7 185.5
115 67.1 54.3 81.5

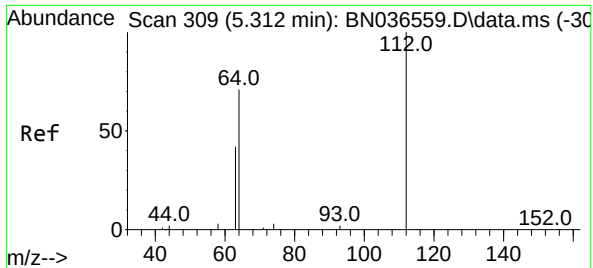


#2
1,4-Dioxane
Concen: 3.976 ng
RT: 3.232 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03



Tgt Ion: 88 Resp: 7300
Ion Ratio Lower Upper
88 100
43 56.6 37.8 56.8
58 85.4 67.4 101.2

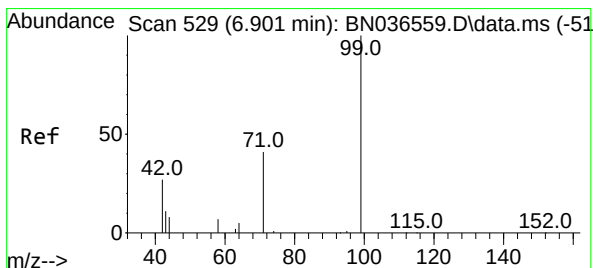
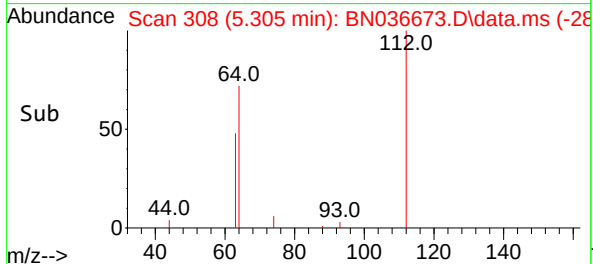
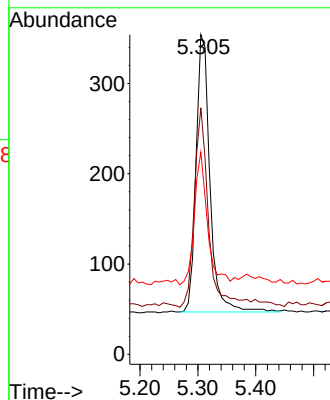
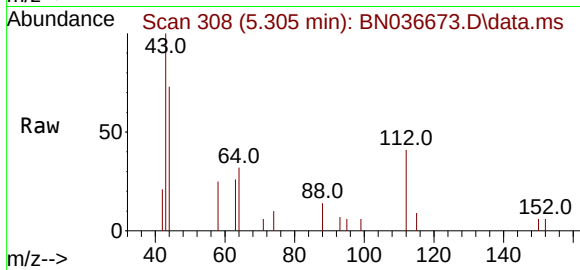




#4
2-Fluorophenol
Concen: 0.133 ng
RT: 5.305 min Scan# 309
Delta R.T. -0.007 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

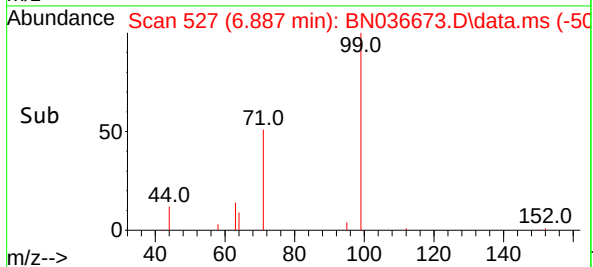
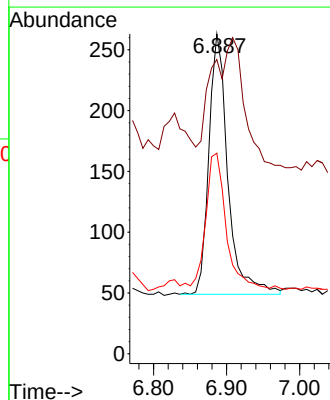
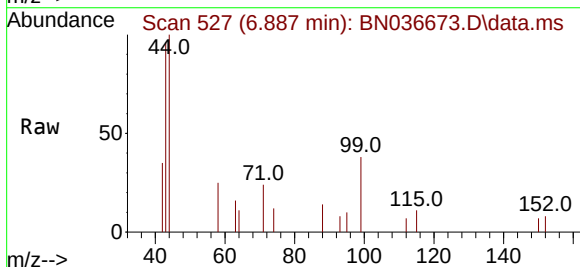
Instrument :
BNA_N
ClientSampleId :
RE114D1-20250313

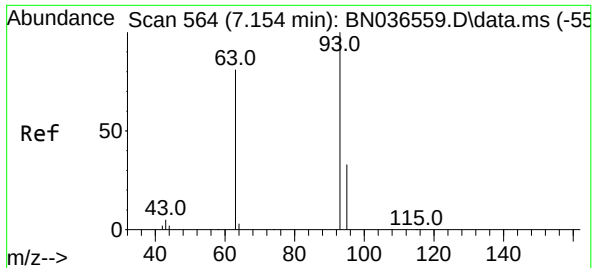
Tgt Ion: 112 Resp: 514
Ion Ratio Lower Upper
112 100
64 77.0 53.1 79.7
63 44.7 31.8 47.8



#5
Phenol-d6
Concen: 0.081 ng
RT: 6.887 min Scan# 527
Delta R.T. -0.014 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

Tgt Ion: 99 Resp: 386
Ion Ratio Lower Upper
99 100
42 0.0 26.5 39.7#
71 54.9 34.1 51.1#

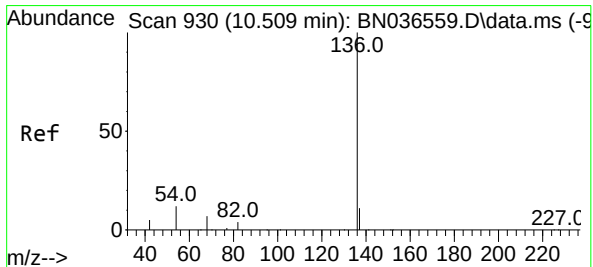
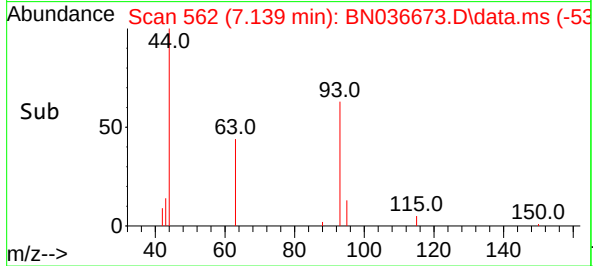
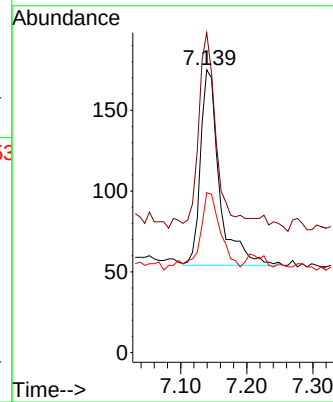
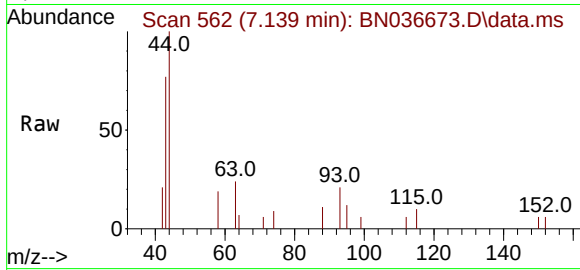




#6
bis(2-Chloroethyl)ether
Concen: 0.049 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.014 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

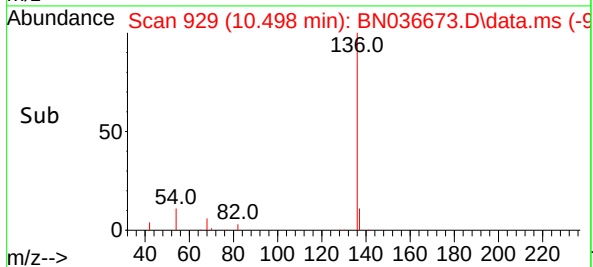
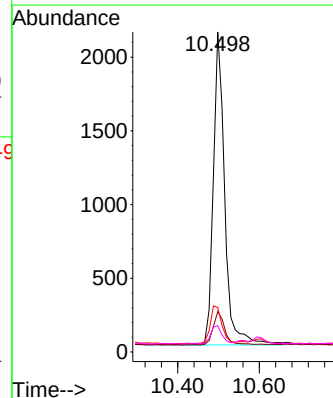
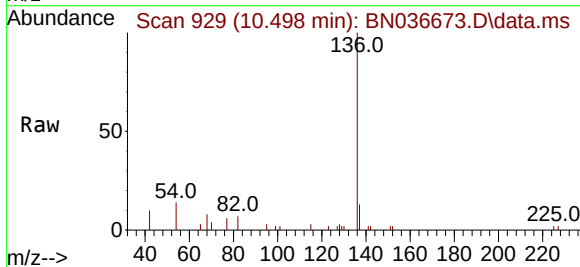
Instrument :
BNA_N
ClientSampleId :
RE114D1-20250313

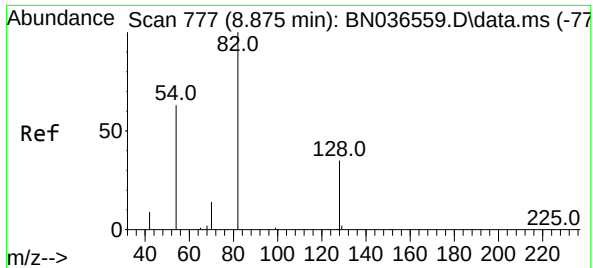
Tgt Ion: 93 Resp: 243
Ion Ratio Lower Upper
93 100
63 94.7 67.7 101.5
95 44.4 25.6 38.4#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. -0.011 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

Tgt Ion: 136 Resp: 4102
Ion Ratio Lower Upper
136 100
137 12.6 10.3 15.5
54 13.9 11.5 17.3
68 8.2 7.0 10.4

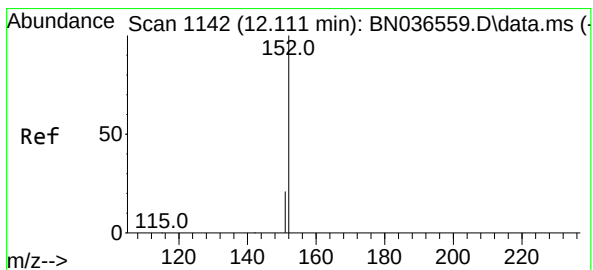
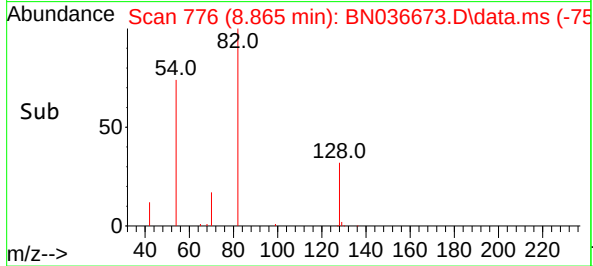
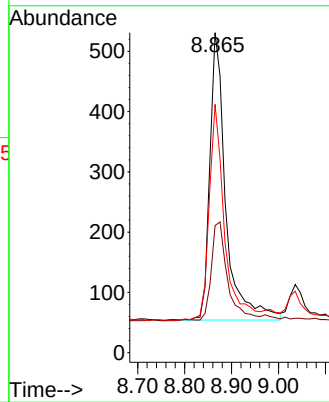
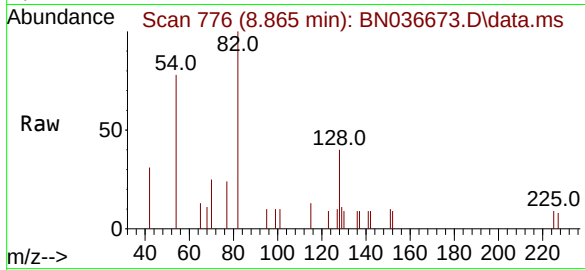




#8
Nitrobenzene-d5
Concen: 0.253 ng
RT: 8.865 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

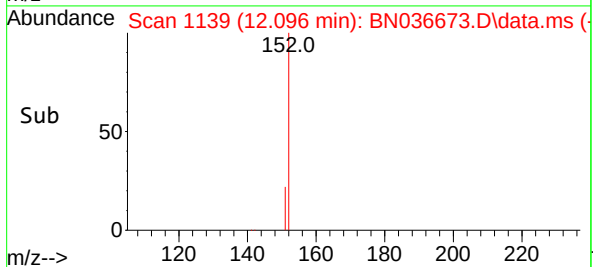
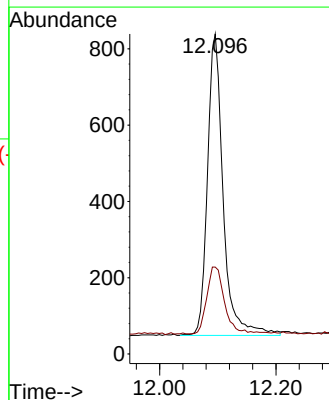
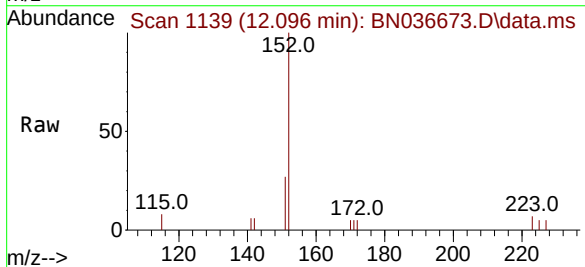
Instrument :
BNA_N
ClientSampleId :
RE114D1-20250313

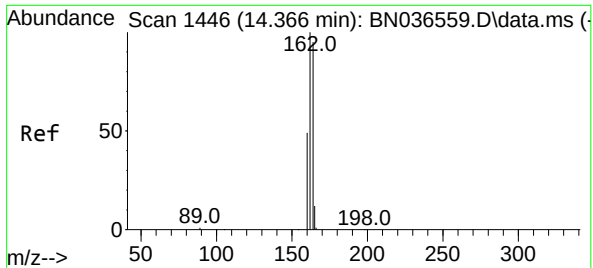
Tgt Ion:	82	Resp:	1129
Ion	Ratio	Lower	Upper
82	100		
128	39.7	30.6	45.8
54	77.6	52.2	78.4



#11
2-Methylnaphthalene-d10
Concen: 0.243 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

Tgt Ion:	152	Resp:	1481
Ion	Ratio	Lower	Upper
152	100		
151	25.2	17.0	25.6

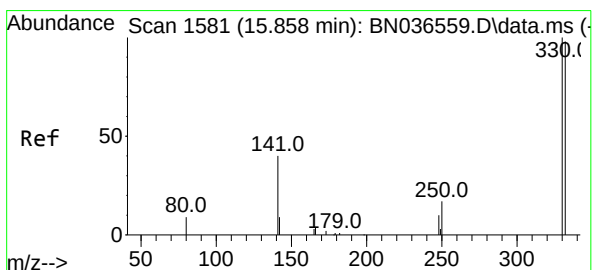
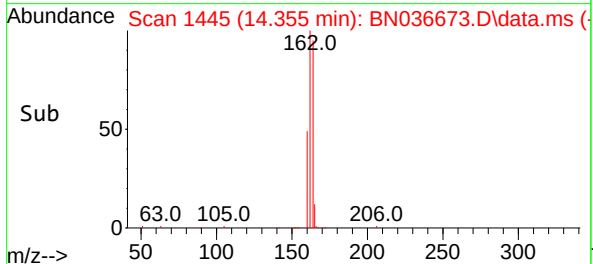
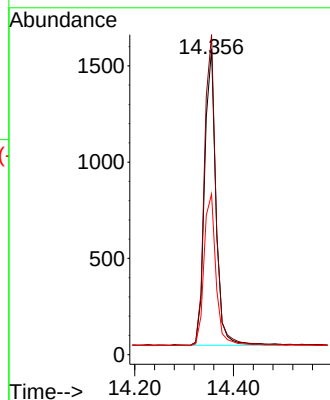
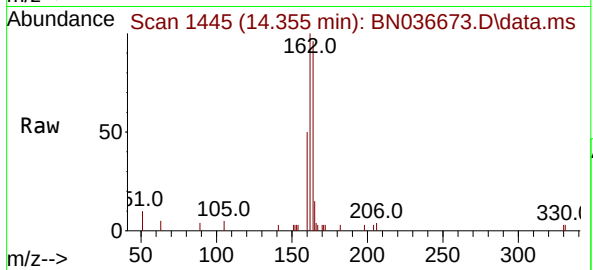




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1446
Delta R.T. -0.011 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

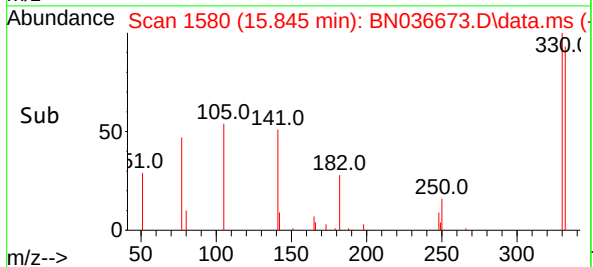
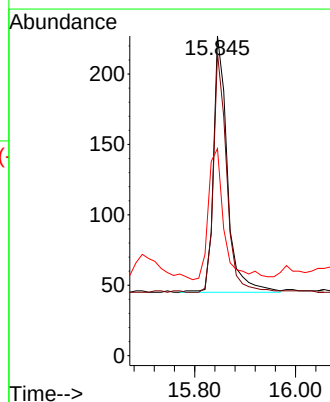
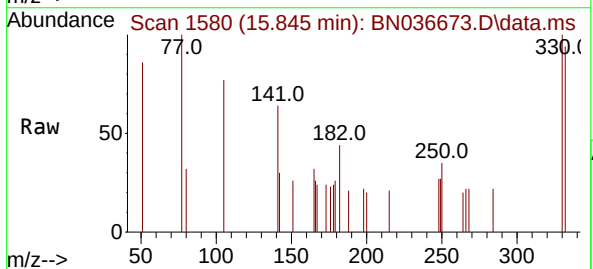
Instrument :
BNA_N
ClientSampleId :
RE114D1-20250313

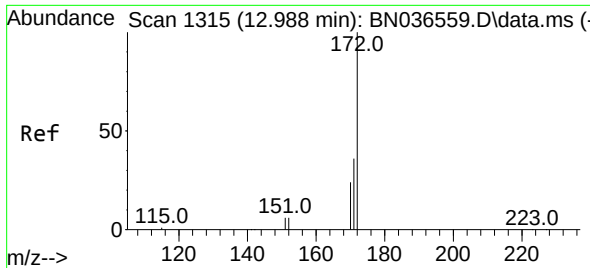
Tgt Ion:164 Resp: 2453
Ion Ratio Lower Upper
164 100
162 104.6 84.2 126.2
160 52.5 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.313 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

Tgt Ion:330 Resp: 348
Ion Ratio Lower Upper
330 100
332 88.5 75.2 112.8
141 58.3 43.4 65.2

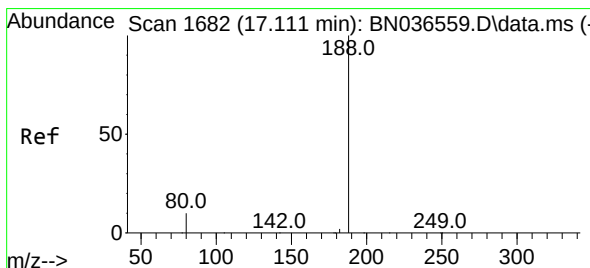
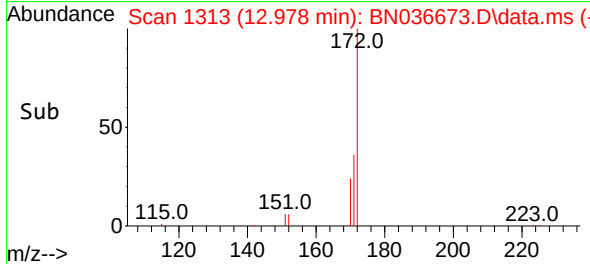
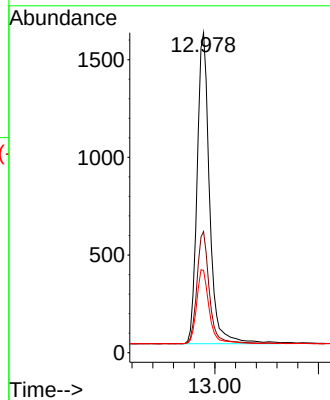
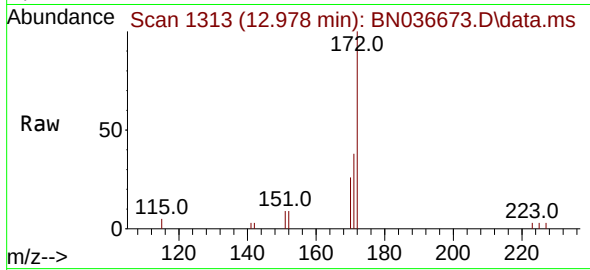




#15
2-Fluorobiphenyl
Concen: 0.266 ng
RT: 12.978 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

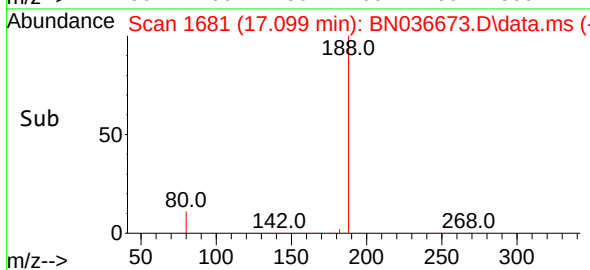
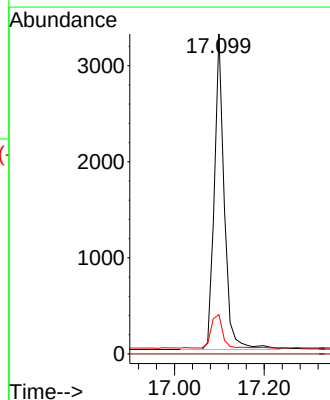
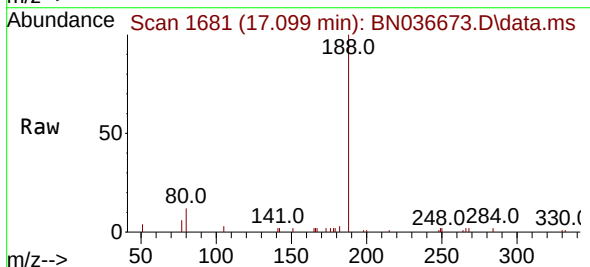
Instrument :
BNA_N
ClientSampleId :
RE114D1-20250313

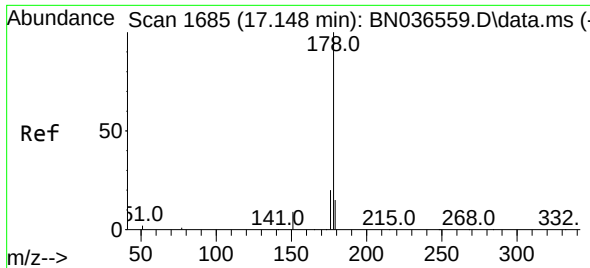
Tgt Ion:172 Resp: 3792
Ion Ratio Lower Upper
172 100
171 37.9 29.5 44.3
170 25.8 20.2 30.4



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

Tgt Ion:188 Resp: 5059
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.3 8.8 13.2

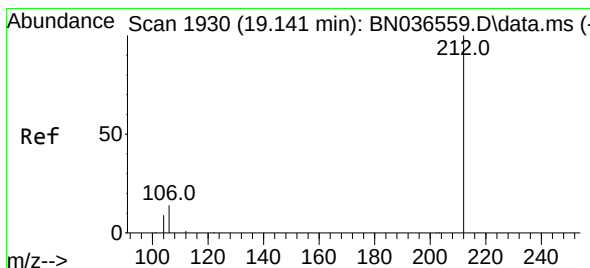
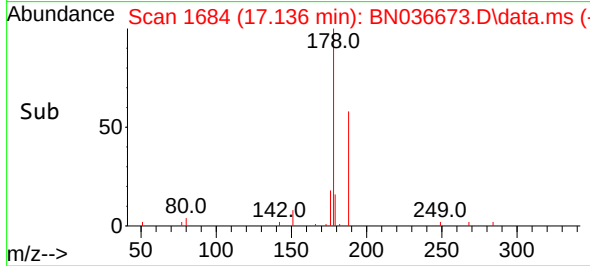
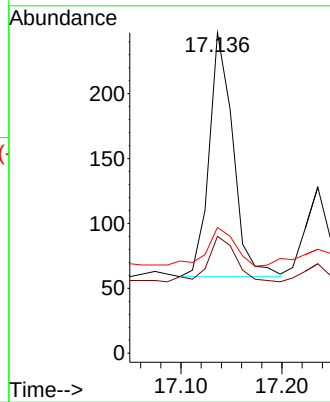
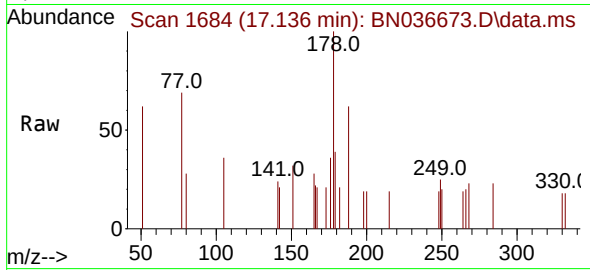




#25
Phenanthrene
Concen: 0.020 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.012 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

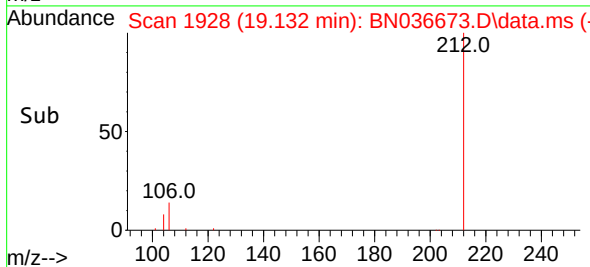
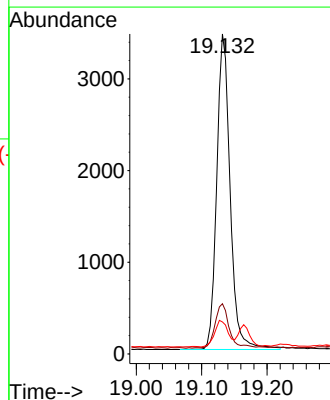
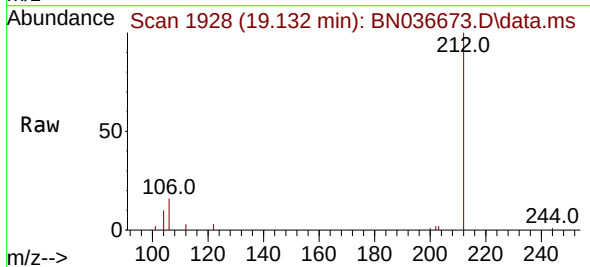
Instrument :
BNA_N
ClientSampleId :
RE114D1-20250313

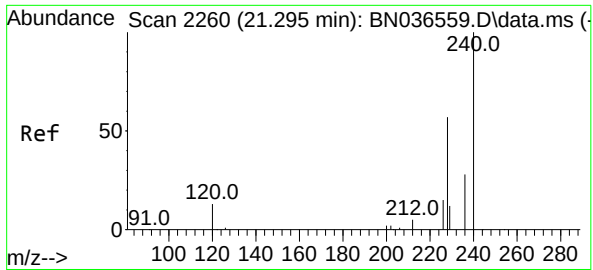
Tgt Ion:178 Resp: 309
Ion Ratio Lower Upper
178 100
176 25.9 15.9 23.9#
179 35.0 12.2 18.4#



#27
Fluoranthene-d10
Concen: 0.378 ng
RT: 19.132 min Scan# 1928
Delta R.T. -0.009 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

Tgt Ion:212 Resp: 4901
Ion Ratio Lower Upper
212 100
106 14.8 11.8 17.6
104 8.6 7.3 10.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036673.D

Acq: 18 Mar 2025 00:03

Instrument :

BNA_N

ClientSampleId :

RE114D1-20250313

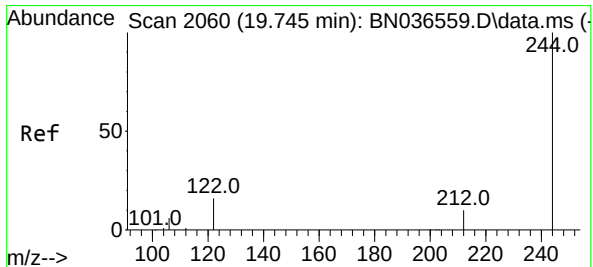
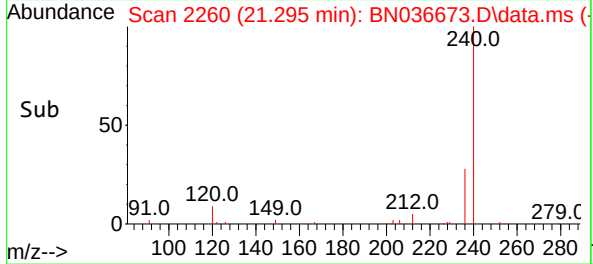
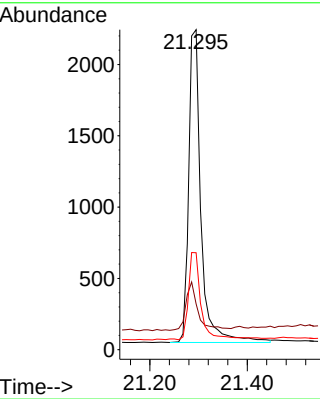
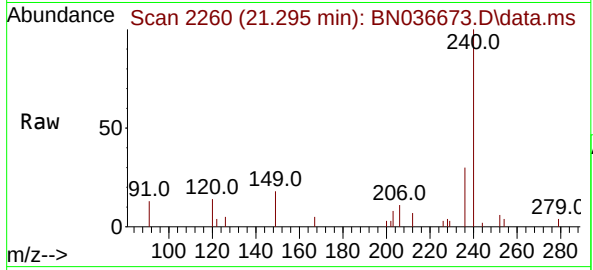
Tgt Ion:240 Resp: 3831

Ion Ratio Lower Upper

240 100

120 14.3 14.6 22.0#

236 30.3 24.1 36.1



#31

Terphenyl-d14

Concen: 0.387 ng

RT: 19.736 min Scan# 2058

Delta R.T. -0.009 min

Lab File: BN036673.D

Acq: 18 Mar 2025 00:03

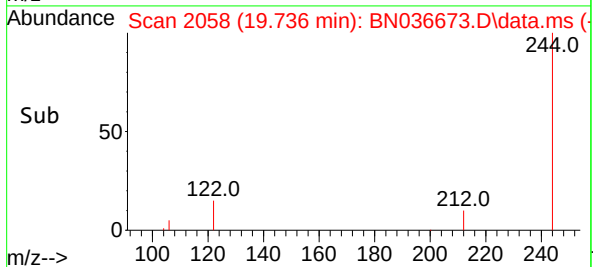
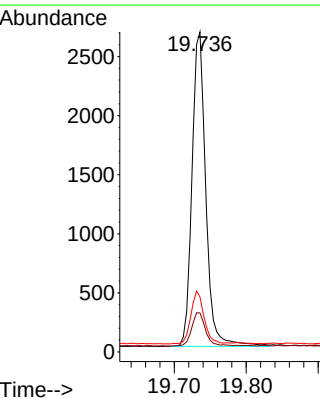
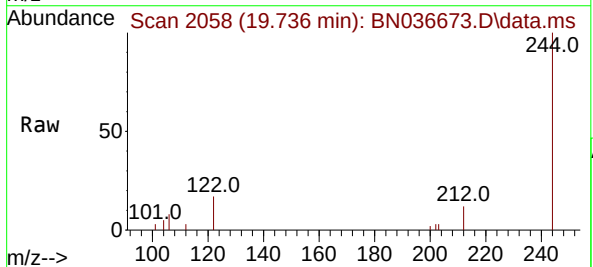
Tgt Ion:244 Resp: 3551

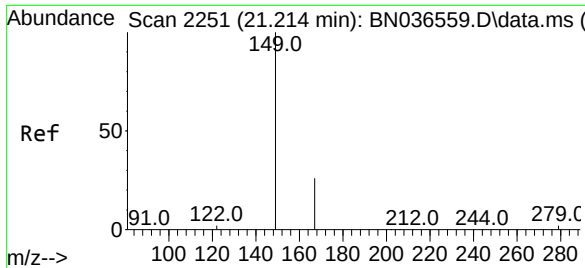
Ion Ratio Lower Upper

244 100

212 12.2 9.6 14.4

122 17.2 13.9 20.9

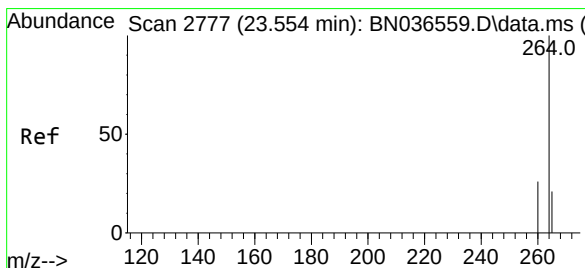
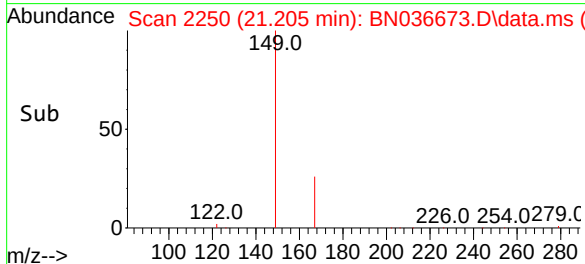
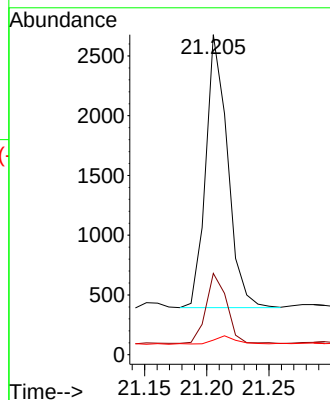
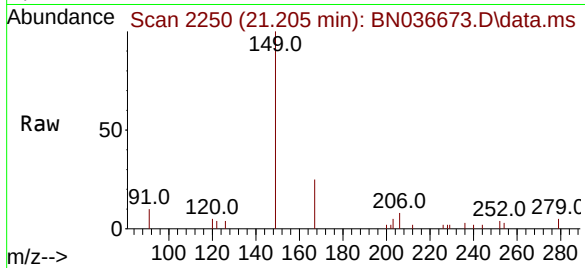




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.293 ng
RT: 21.205 min Scan# 2119
Delta R.T. -0.009 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

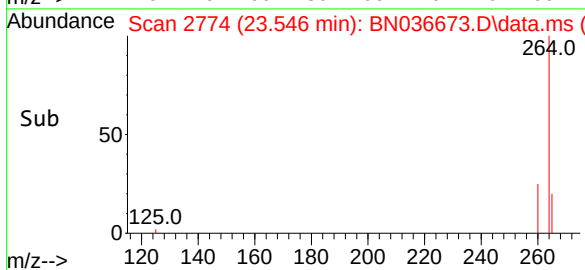
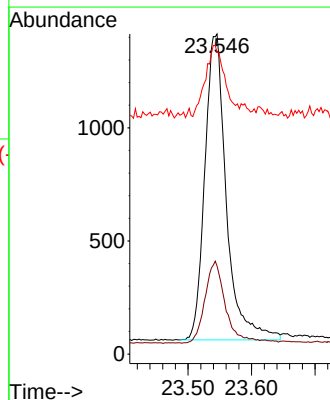
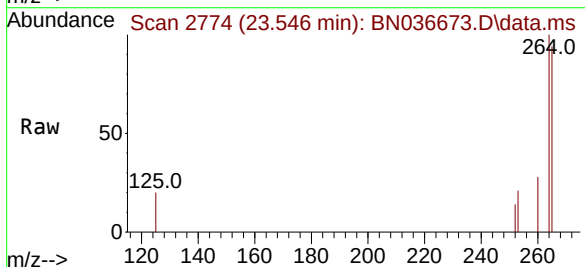
Instrument :
BNA_N
ClientSampleId :
RE114D1-20250313

Tgt Ion:149 Resp: 2781
Ion Ratio Lower Upper
149 100
167 24.5 20.7 31.1
279 3.5 3.6 5.4#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.546 min Scan# 2774
Delta R.T. -0.009 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

Tgt Ion:264 Resp: 3185
Ion Ratio Lower Upper
264 100
260 27.6 22.6 33.8
265 94.2 88.1 132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/14/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	BPOW1-7-20250314	SDG No.:	Q1582
Lab Sample ID:	Q1582-11	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
BN036674.D	1	03/17/25 08:48	03/18/25 00:39	PB167159

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	0.29		30 - 150		73%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		70%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.29		53 - 106		74%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		127%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1840	7.717				
1146-65-2	Naphthalene-d8	4420	10.498				
15067-26-2	Acenaphthene-d10	2740	14.355				
1517-22-2	Phenanthrene-d10	5300	17.099				
1719-03-5	Chrysene-d12	3400	21.295				
1520-96-3	Perylene-d12	2780	23.54				

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\BN031725\
Data File : BN036674.D
Acq On : 18 Mar 2025 00:39
Operator : RC/JU
Sample : Q1582-11
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Quant Time: Mar 18 01:19:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1843	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4422	0.400	ng	-0.01
13) Acenaphthene-d10	14.355	164	2743	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	5303	0.400	ng	-0.01
29) Chrysene-d12	21.295	240	3399	0.400	ng	0.00
35) Perylene-d12	23.540	264	2777	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	692	0.161	ng	0.00
5) Phenol-d6	6.894	99	458	0.086	ng	0.00
8) Nitrobenzene-d5	8.875	82	1347	0.280	ng	0.00
11) 2-Methylnaphthalene-d10	12.096	152	1913	0.291	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	454	0.365	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	4694	0.294	ng	-0.01
27) Fluoranthene-d10	19.132	212	5847	0.430	ng	0.00
31) Terphenyl-d14	19.736	244	4142	0.509	ng	0.00
Target Compounds						
28) Fluoranthene	19.164	202	392	0.022	ng	# 5
30) Pyrene	19.527	202	368	0.022	ng	# 91
33) Chrysene	21.331	228	263	0.020	ng	# 65
34) Bis(2-ethylhexyl)phtha...	21.205	149	3267m	0.388	ng	

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

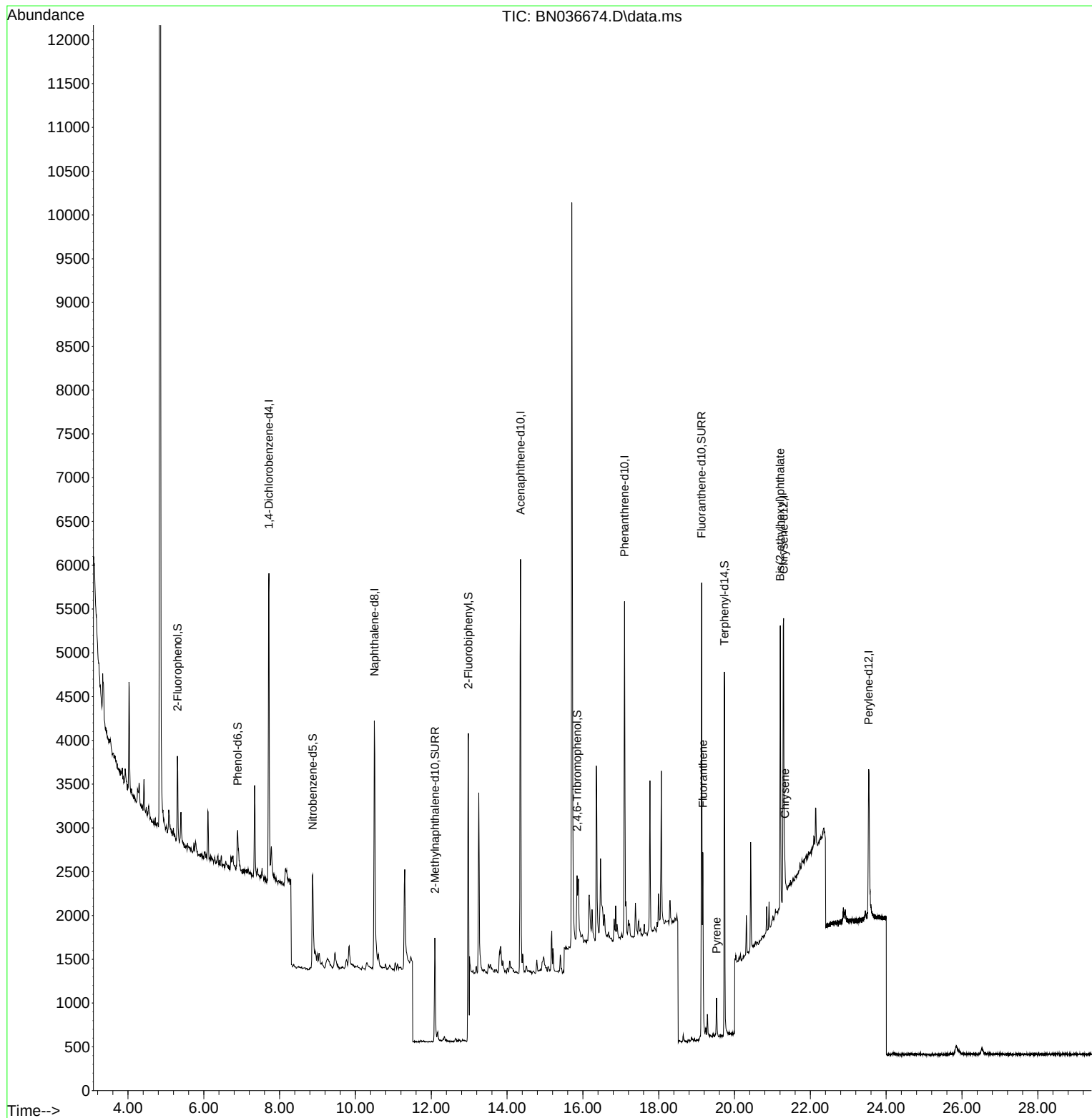
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036674.D
Acq On : 18 Mar 2025 00:39
Operator : RC/JU
Sample : Q1582-11
Misc :
ALS Vial : 24 Sample Multiplier: 1

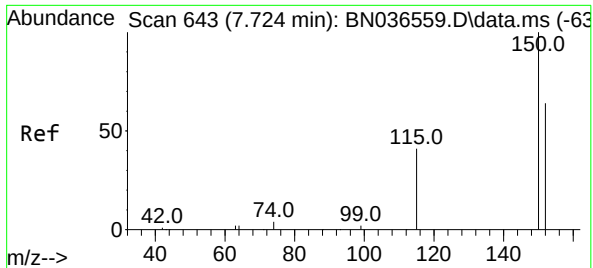
Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Quant Time: Mar 18 01:19:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

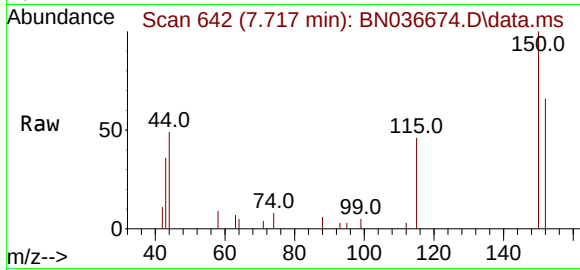
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 643
Delta R.T. -0.007 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

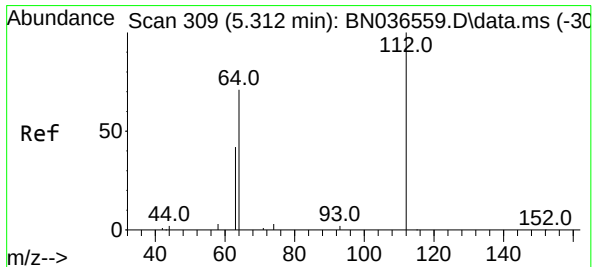
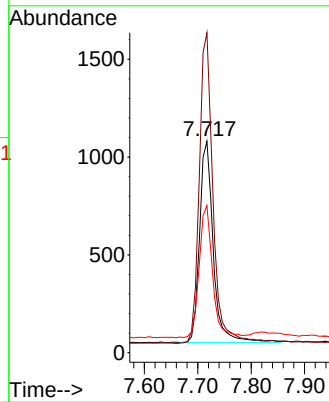
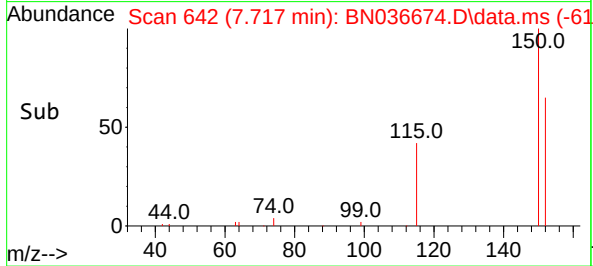
Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314



Tgt Ion:152 Resp: 184
Ion Ratio Lower Upper
152 100
150 151.3 123.7 185.5
115 69.6 54.3 81.5

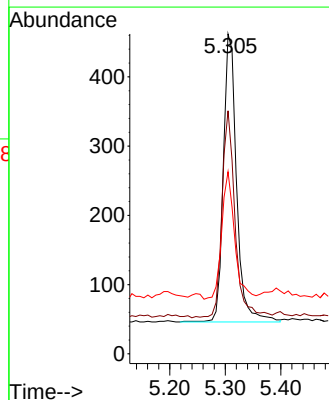
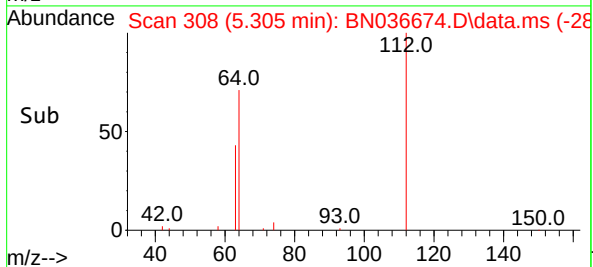
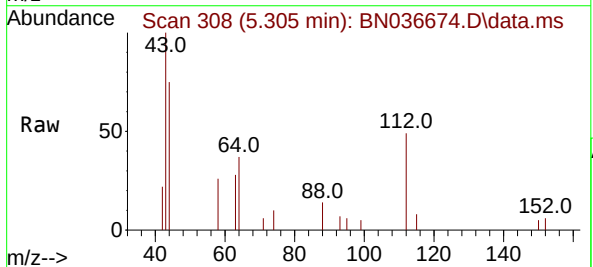
Manual Integrations
APPROVED

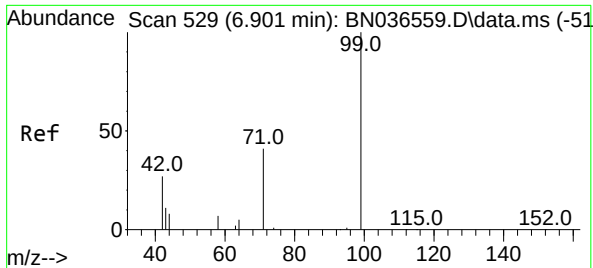
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#4
2-Fluorophenol
Concen: 0.161 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.007 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

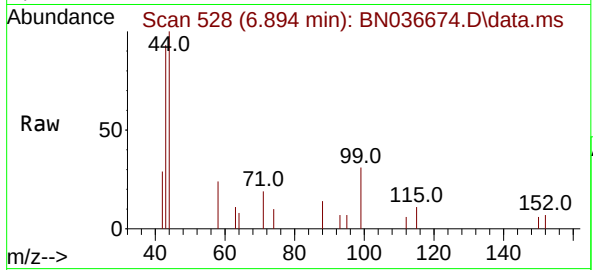
Tgt Ion:112 Resp: 692
Ion Ratio Lower Upper
112 100
64 69.9 53.1 79.7
63 42.8 31.8 47.8





#5
Phenol-d6
Concen: 0.086 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

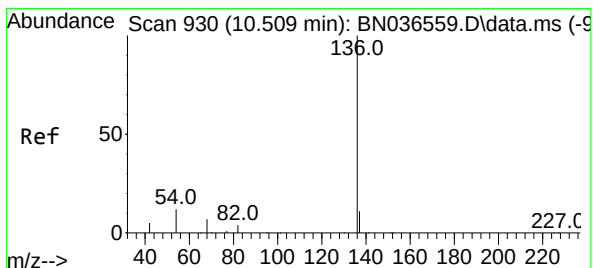
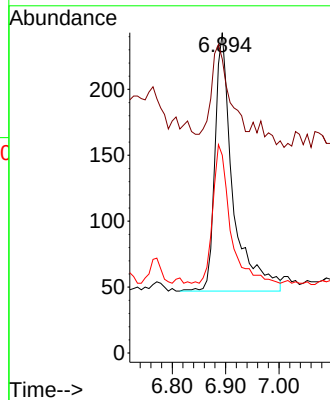
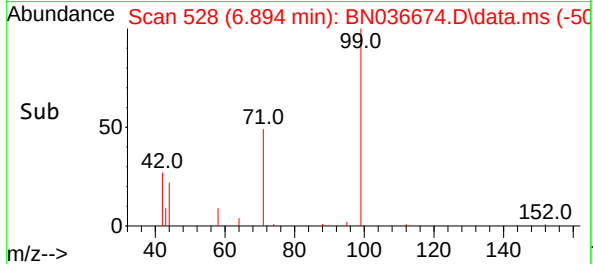
Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314



Tgt Ion: 99 Resp: 458
Ion Ratio Lower Upper
99 100
42 34.9 26.5 39.7
71 52.8 34.1 51.1

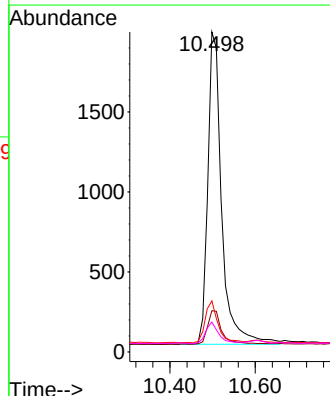
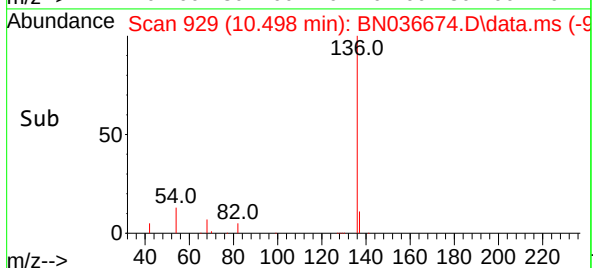
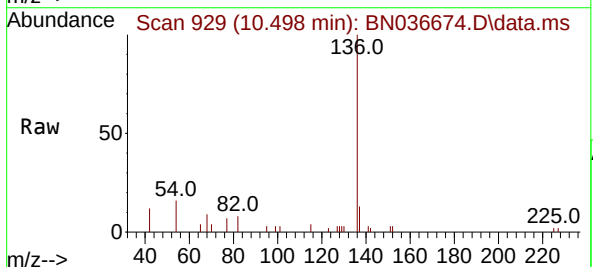
Manual Integrations
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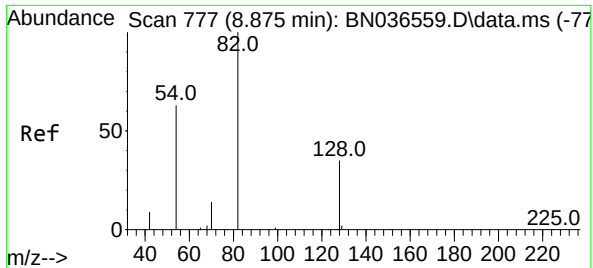
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. -0.011 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:136 Resp: 4422
Ion Ratio Lower Upper
136 100
137 12.9 10.3 15.5
54 16.0 11.5 17.3
68 9.3 7.0 10.4





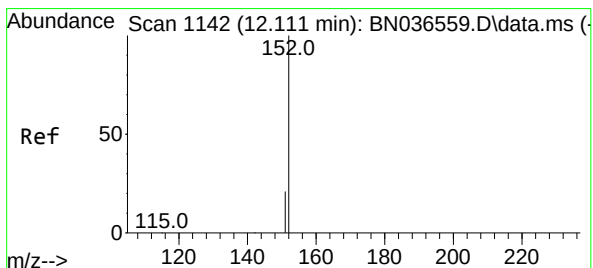
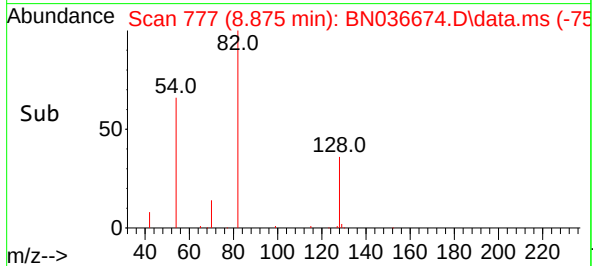
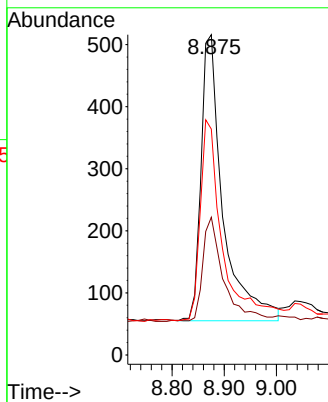
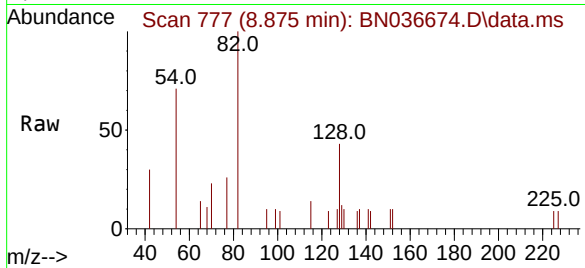
#8
Nitrobenzene-d5
Concen: 0.280 ng
RT: 8.875 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Tgt Ion: 82 Resp: 134
Ion Ratio Lower Upper
82 100
128 43.0 30.6 45.8
54 70.5 52.2 78.4

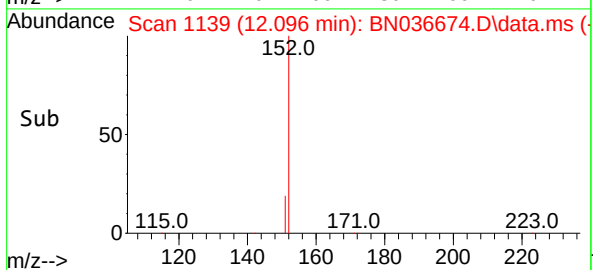
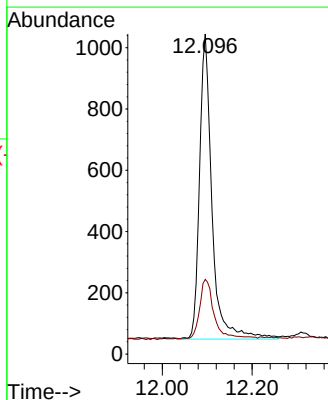
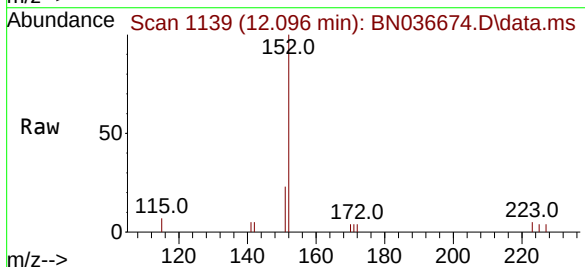
Manual Integrations
APPROVED

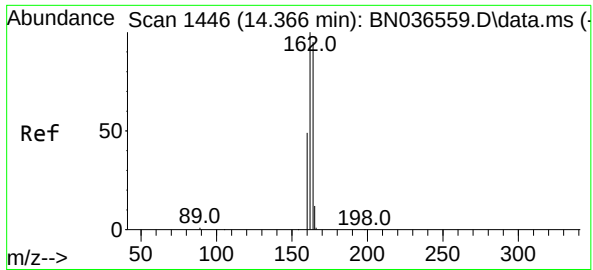
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#11
2-Methylnaphthalene-d10
Concen: 0.291 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

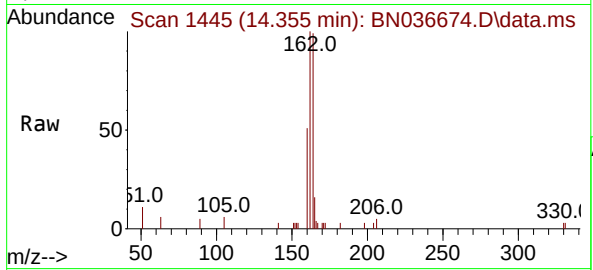
Tgt Ion:152 Resp: 1913
Ion Ratio Lower Upper
152 100
151 21.6 17.0 25.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

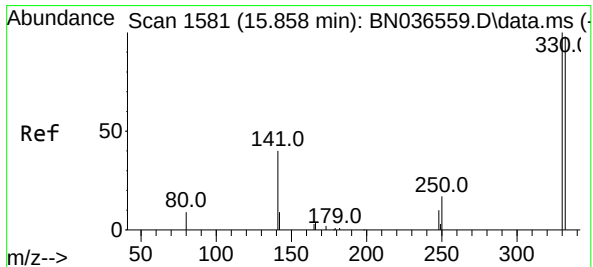
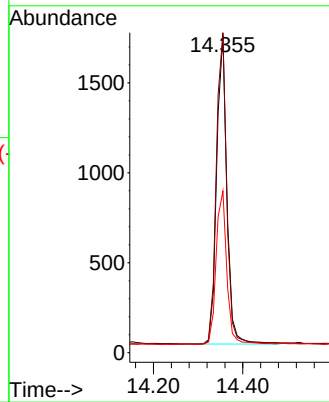
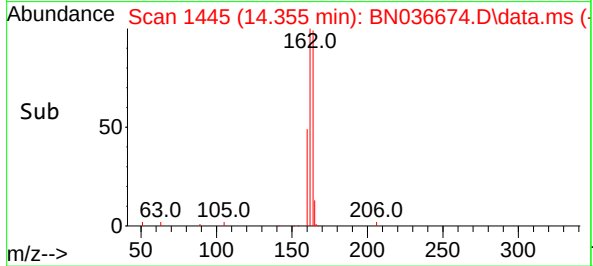
Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314



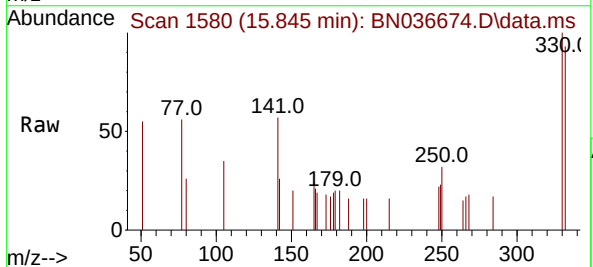
Tgt Ion:164 Resp: 274
Ion Ratio Lower Upper
164 100
162 100.9 84.2 126.2
160 51.0 42.2 63.2

Manual Integrations
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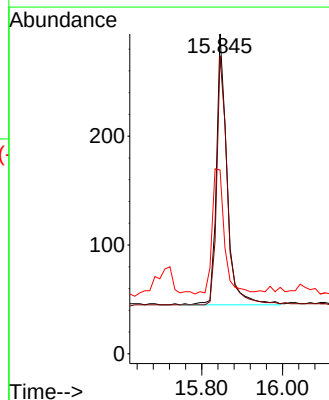
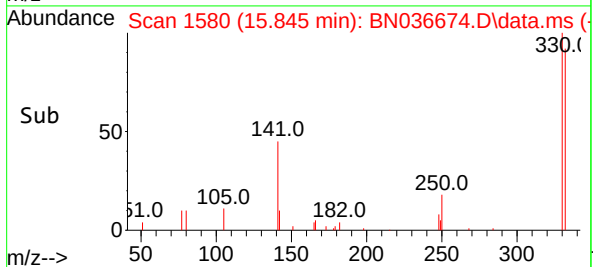
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

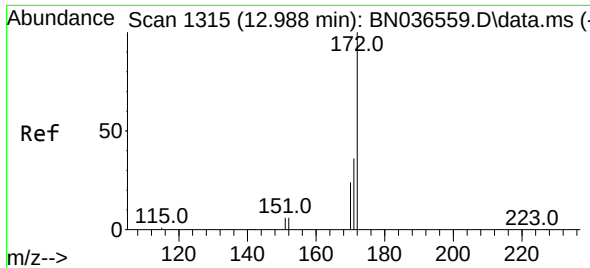


#14
2,4,6-Tribromophenol
Concen: 0.365 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39



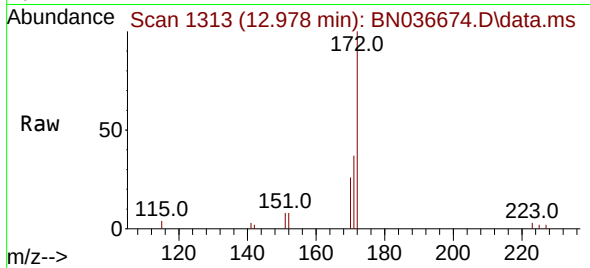
Tgt Ion:330 Resp: 454
Ion Ratio Lower Upper
330 100
332 92.1 75.2 112.8
141 54.0 43.4 65.2





#15
2-Fluorobiphenyl
Concen: 0.294 ng
RT: 12.978 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

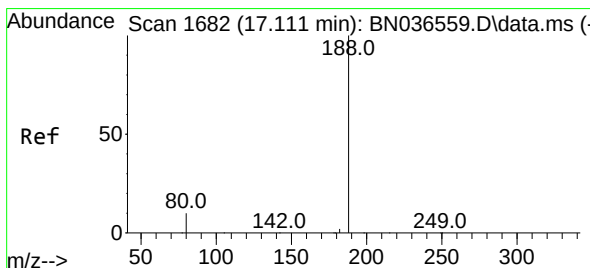
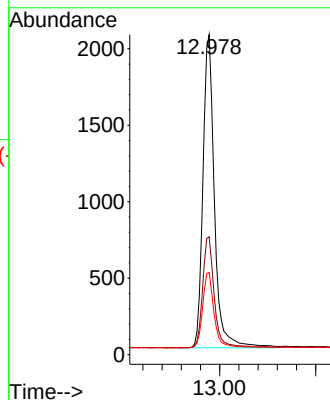
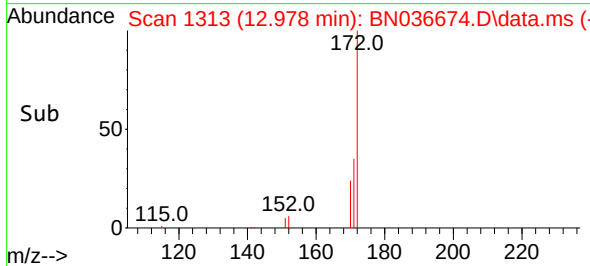
Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314



Tgt Ion:172 Resp: 4694
Ion Ratio Lower Upper
172 100
171 36.9 29.5 44.3
170 25.7 20.2 30.4

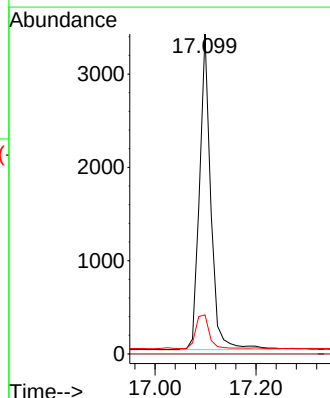
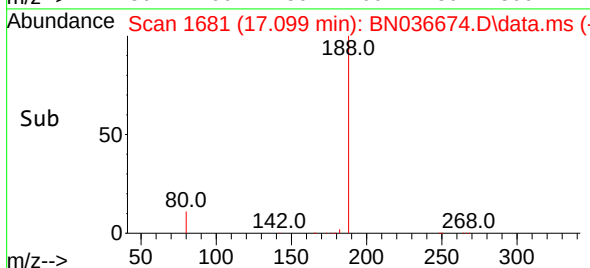
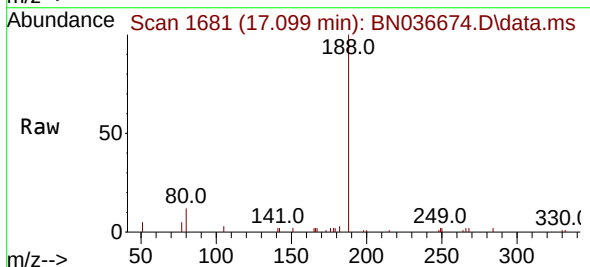
Manual Integrations
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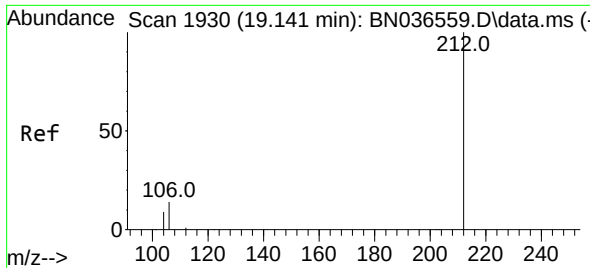
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

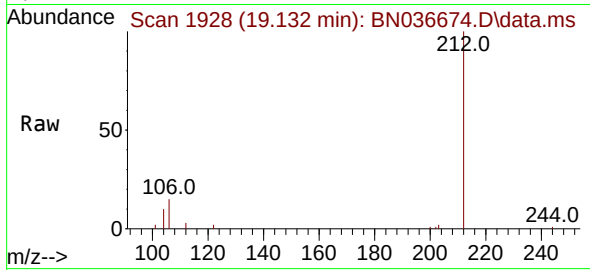
Tgt Ion:188 Resp: 5303
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.2 8.8 13.2





#27
Fluoranthene-d10
Concen: 0.430 ng
RT: 19.132 min Scan# 1928
Delta R.T. -0.009 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

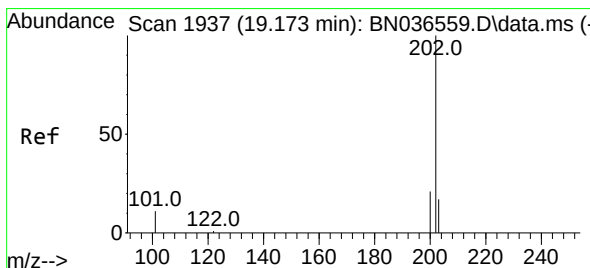
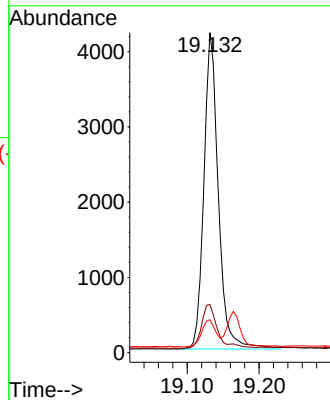
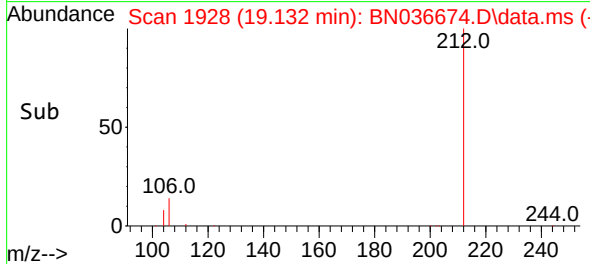
Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314



Tgt Ion:212 Resp: 584
Ion Ratio Lower Upper
212 100
106 15.1 11.8 17.6
104 8.4 7.3 10.9

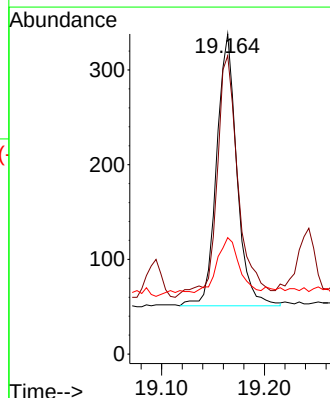
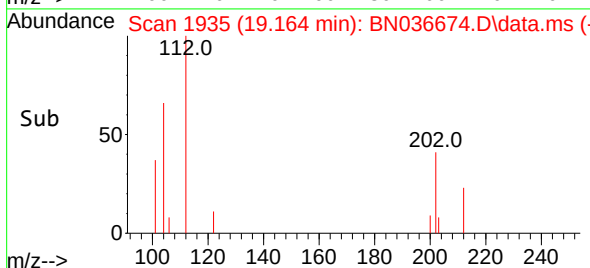
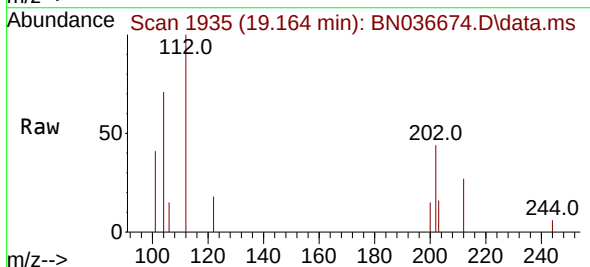
Manual Integrations
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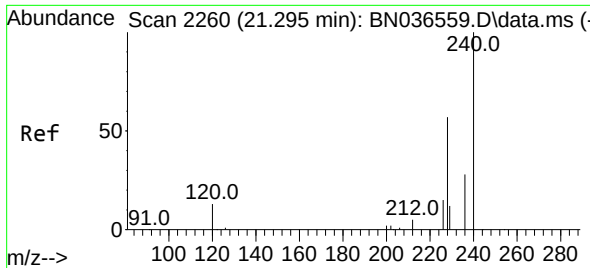
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#28
Fluoranthene
Concen: 0.022 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:202 Resp: 392
Ion Ratio Lower Upper
202 100
101 94.9 9.4 14.0#
203 22.2 13.5 20.3#





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036674.D

Acq: 18 Mar 2025 00:39

Instrument :

BNA_N

ClientSampleId :

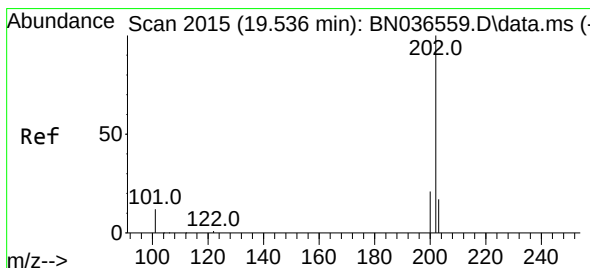
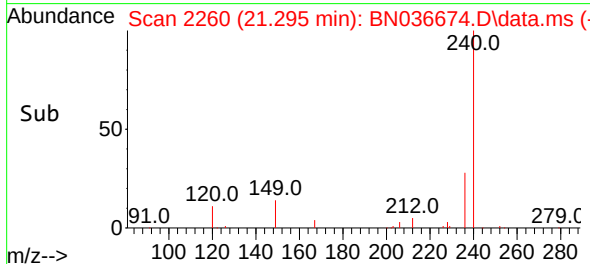
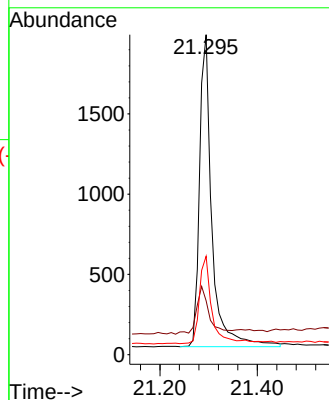
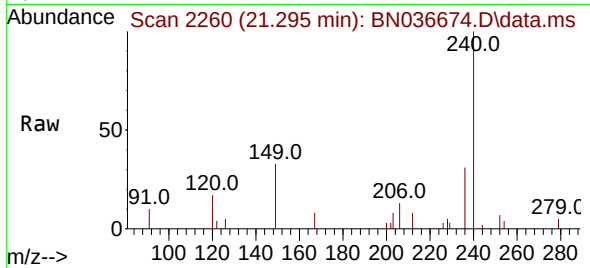
BPOW1-7-20250314

Tgt Ion:240	Resp:	339
Ion Ratio	Lower	Upper
240	100	
120	16.9	14.6 22.0
236	30.7	24.1 36.1

Manual Integrations

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Reviewed By :Anahy Claudio 03/18/2025
 Supervised By :Jagrut Upadhyay 03/18/2025



#30

Pyrene

Concen: 0.022 ng

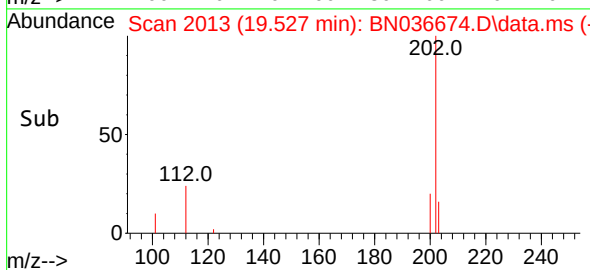
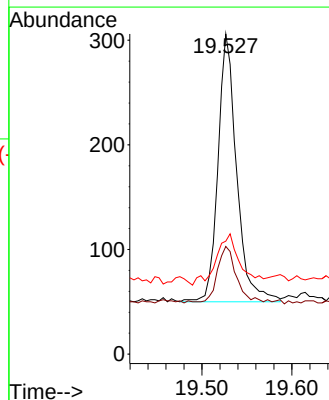
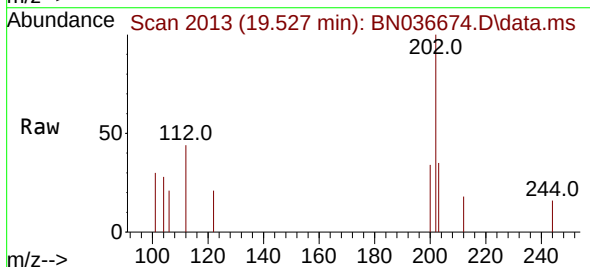
RT: 19.527 min Scan# 2013

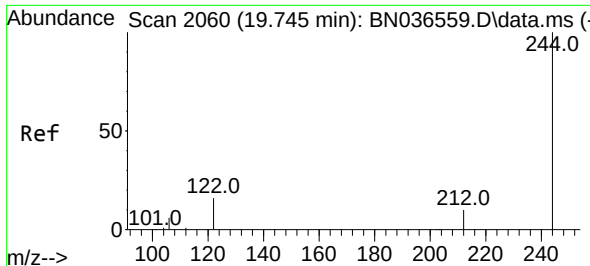
Delta R.T. -0.009 min

Lab File: BN036674.D

Acq: 18 Mar 2025 00:39

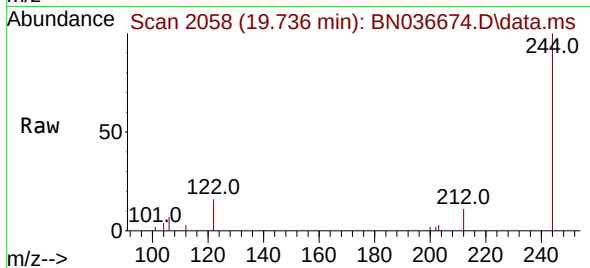
Tgt Ion:202	Resp:	368
Ion Ratio	Lower	Upper
202	100	
200	20.1	17.1 25.7
203	24.5	14.1 21.1





#31
Terphenyl-d14
Concen: 0.509 ng
RT: 19.736 min Scan# 2060
Delta R.T. -0.009 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

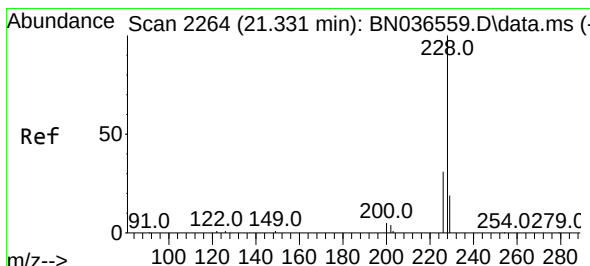
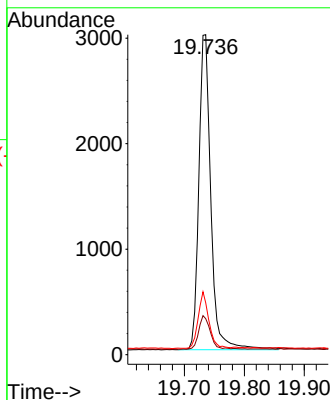
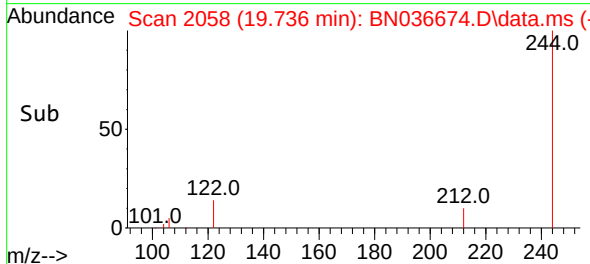
Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314



Tgt Ion:244 Resp: 414
Ion Ratio Lower Upper
244 100
212 11.2 9.6 14.4
122 16.2 13.9 20.9

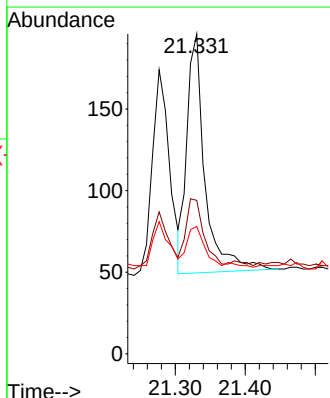
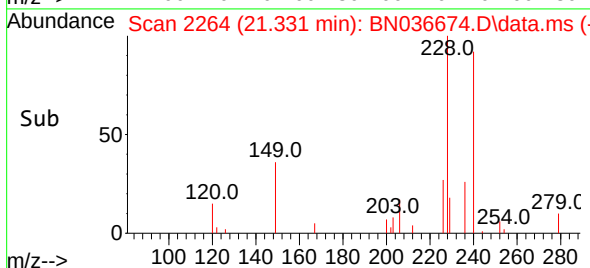
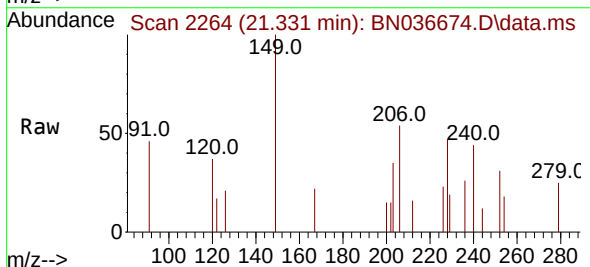
Manual Integrations
APPROVED

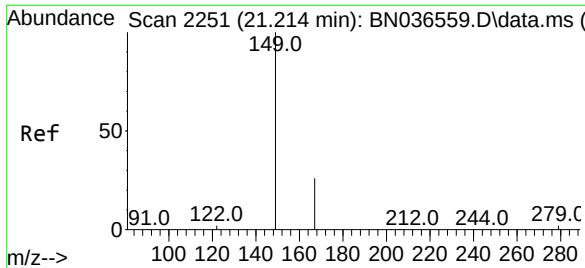
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#33
Chrysene
Concen: 0.020 ng
RT: 21.331 min Scan# 2264
Delta R.T. 0.000 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

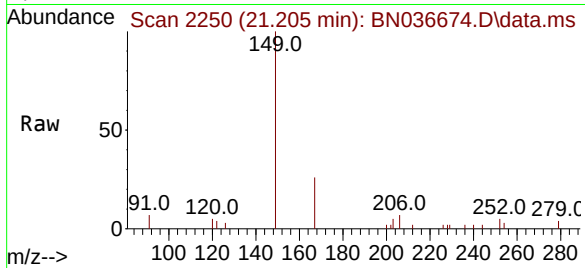
Tgt Ion:228 Resp: 263
Ion Ratio Lower Upper
228 100
226 48.0 25.3 37.9#
229 39.8 15.8 23.8#





#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.388 ng m
 RT: 21.205 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN036674.D
 Acq: 18 Mar 2025 00:39

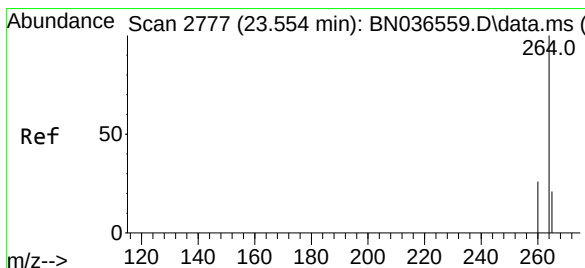
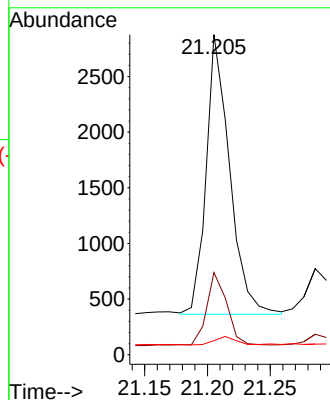
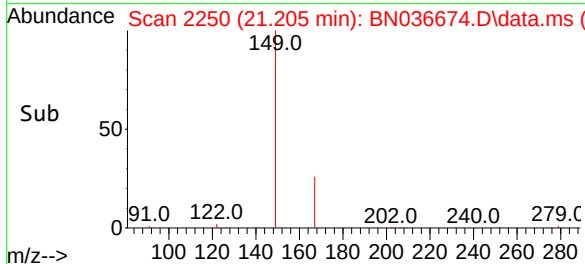
Instrument :
 BNA_N
 ClientSampleId :
 BPOW1-7-20250314



Tgt Ion:149 Resp: 326
 Ion Ratio Lower Upper
 149 100
 167 22.2 20.7 31.1
 279 2.7 3.6 5.4

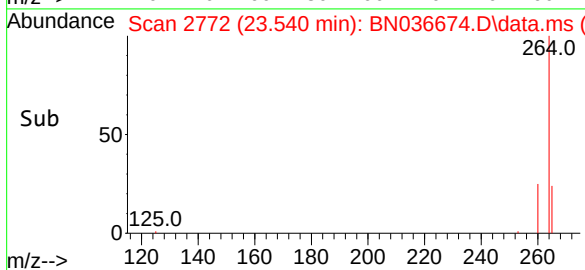
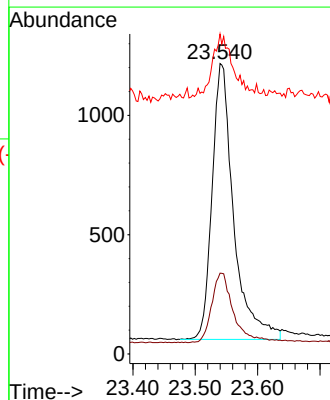
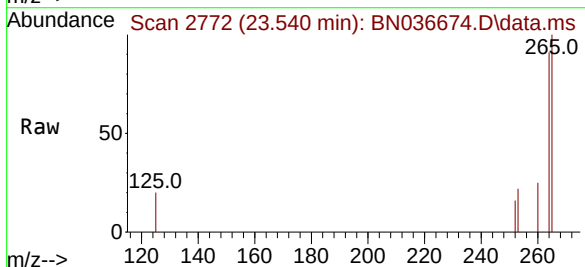
Manual Integrations
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Reviewed By :Anahy Claudio 03/18/2025
 Supervised By :Jagrut Upadhyay 03/18/2025



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.540 min Scan# 2772
 Delta R.T. -0.015 min
 Lab File: BN036674.D
 Acq: 18 Mar 2025 00:39

Tgt Ion:264 Resp: 2777
 Ion Ratio Lower Upper
 264 100
 260 27.9 22.6 33.8
 265 110.2 88.1 132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	03/14/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	03/14/25
Client Sample ID:	BPOW1-8-20250314		SDG No.:	Q1582
Lab Sample ID:	Q1582-12		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	960	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036675.D	1	03/17/25 08:48	03/18/25 01:15	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	U	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		109%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		74%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.50		58 - 132		124%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1650	7.717				
1146-65-2	Naphthalene-d8	4060	10.498				
15067-26-2	Acenaphthene-d10	2500	14.356				
1517-22-2	Phenanthrene-d10	4950	17.099				
1719-03-5	Chrysene-d12	3330	21.295				
1520-96-3	Perylene-d12	2720	23.546				

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\BN031725\
Data File : BN036675.D
Acq On : 18 Mar 2025 01:15
Operator : RC/JU
Sample : Q1582-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250314

Quant Time: Mar 18 01:42:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

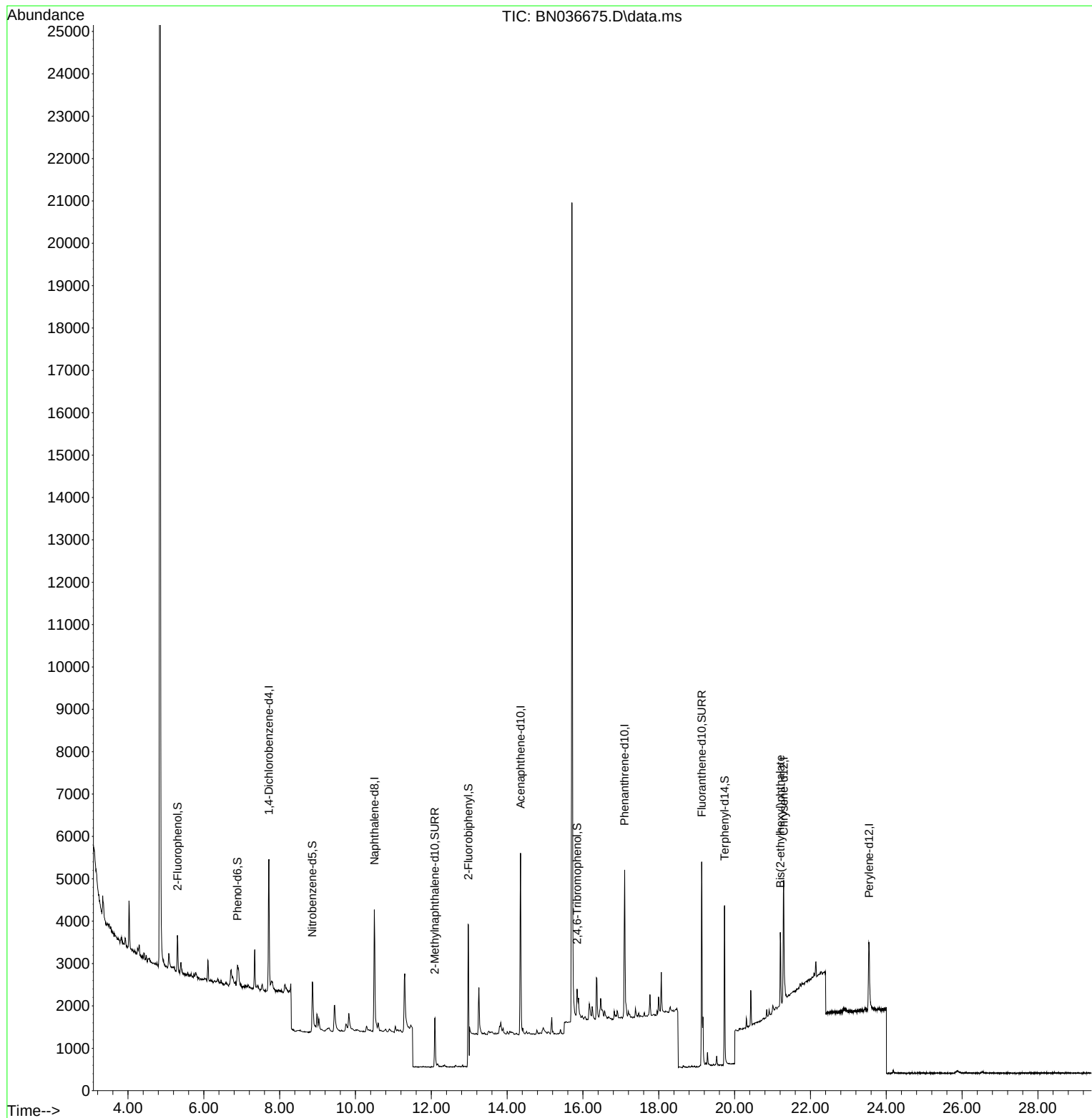
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1645	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4058	0.400	ng	-0.01
13) Acenaphthene-d10	14.356	164	2499	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	4951	0.400	ng	-0.01
29) Chrysene-d12	21.295	240	3334	0.400	ng	0.00
35) Perylene-d12	23.546	264	2721	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	618	0.161	ng	0.00
5) Phenol-d6	6.887	99	452	0.095	ng	-0.01
8) Nitrobenzene-d5	8.865	82	1310	0.297	ng	-0.01
11) 2-Methylnaphthalene-d10	12.091	152	1840	0.305	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	403	0.355	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	4719	0.325	ng	0.00
27) Fluoranthene-d10	19.132	212	5519	0.435	ng	0.00
31) Terphenyl-d14	19.736	244	3951	0.495	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.205	149	1901	0.230	ng	Qvalue # 93

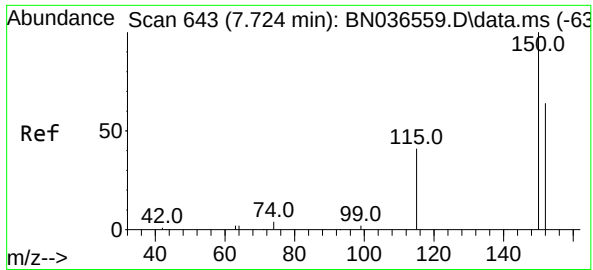
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036675.D
Acq On : 18 Mar 2025 01:15
Operator : RC/JU
Sample : Q1582-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250314

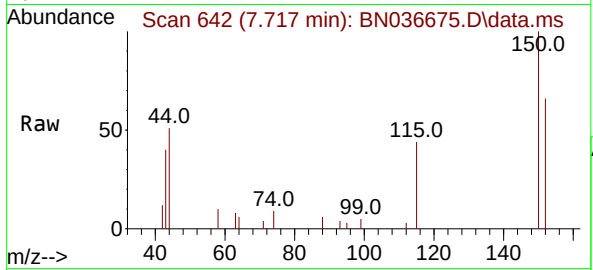
Quant Time: Mar 18 01:42:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



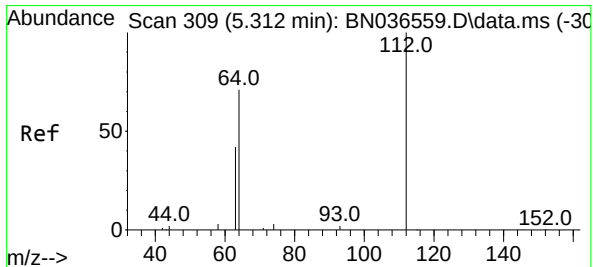
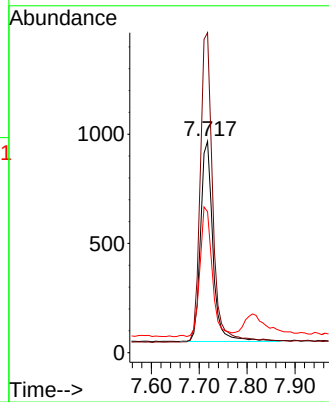
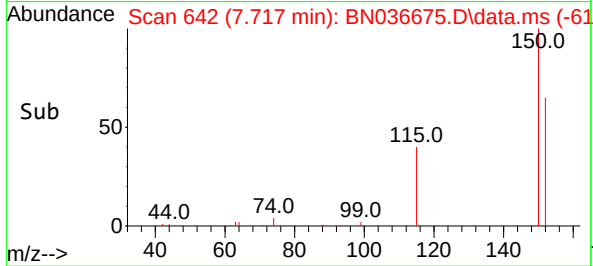


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250314

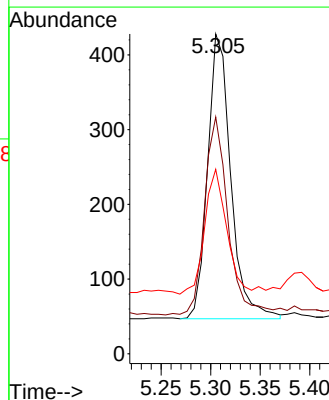
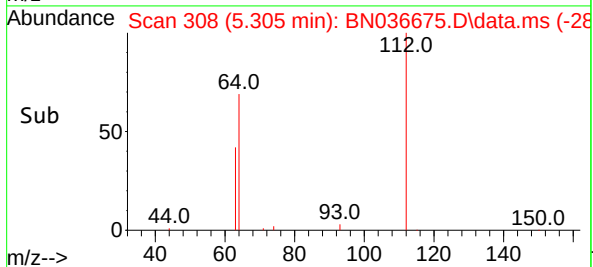
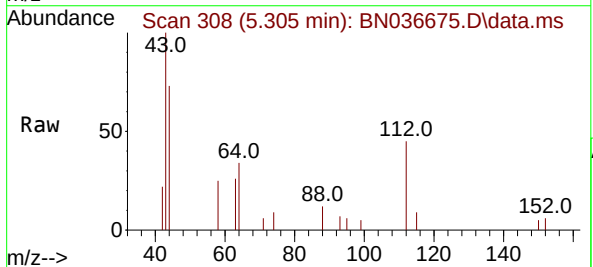


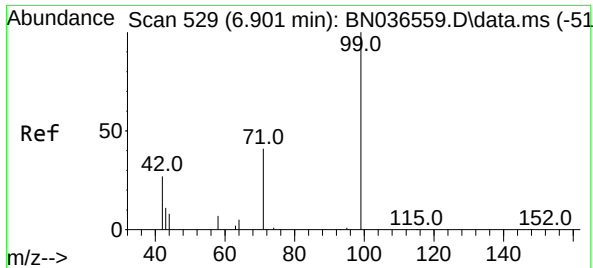
Tgt Ion:152 Resp: 1645
Ion Ratio Lower Upper
152 100
150 151.3 123.7 185.5
115 66.6 54.3 81.5



#4
2-Fluorophenol
Concen: 0.161 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.007 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

Tgt Ion:112 Resp: 618
Ion Ratio Lower Upper
112 100
64 70.1 53.1 79.7
63 41.4 31.8 47.8

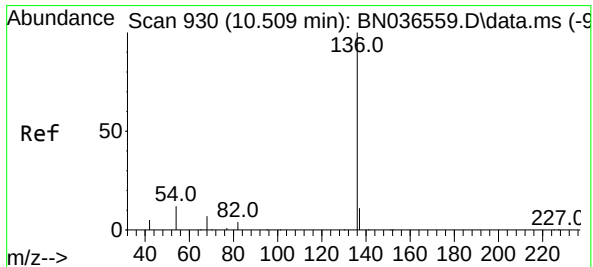
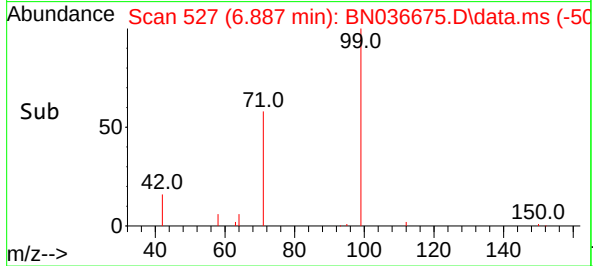
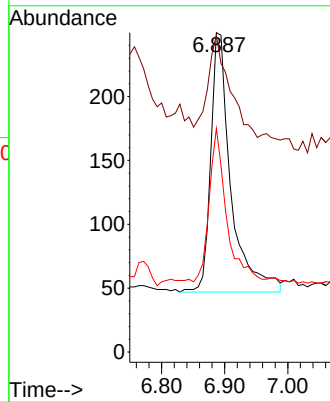
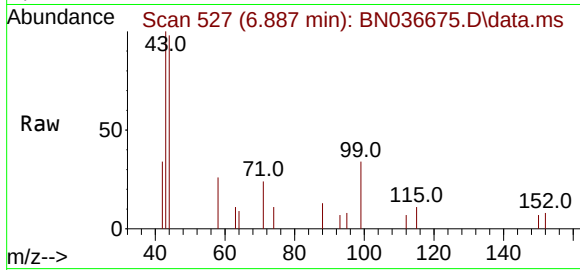




#5
Phenol-d6
Concen: 0.095 ng
RT: 6.887 min Scan# 51
Delta R.T. -0.014 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

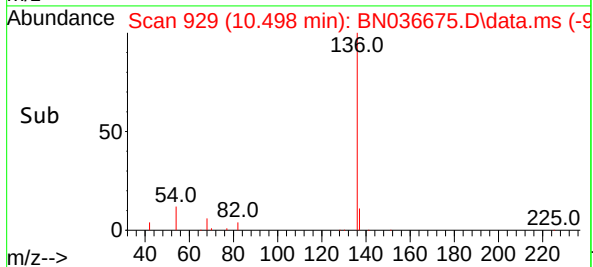
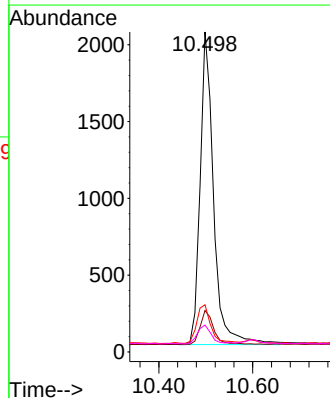
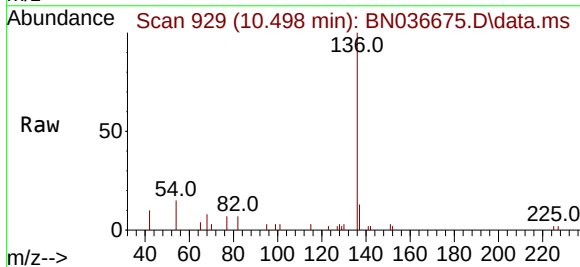
Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250314

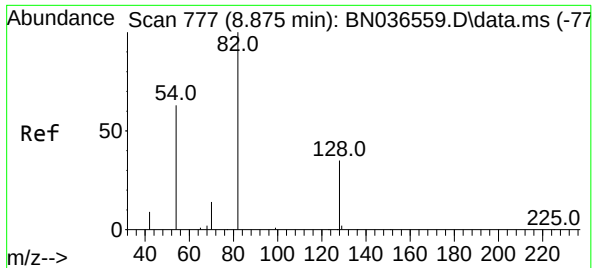
Tgt Ion: 99 Resp: 452
Ion Ratio Lower Upper
99 100
42 62.6 26.5 39.7#
71 48.9 34.1 51.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. -0.010 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

Tgt Ion: 136 Resp: 4058
Ion Ratio Lower Upper
136 100
137 13.0 10.3 15.5
54 14.8 11.5 17.3
68 8.4 7.0 10.4

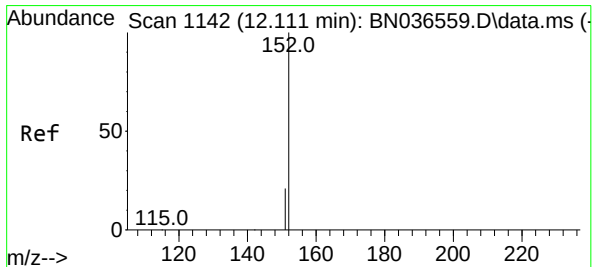
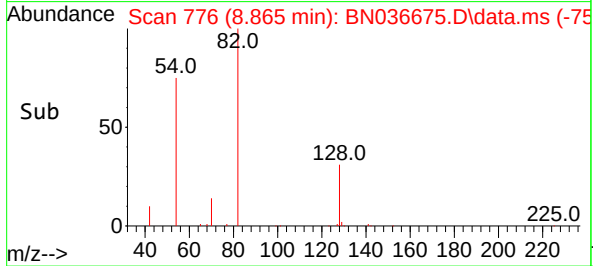
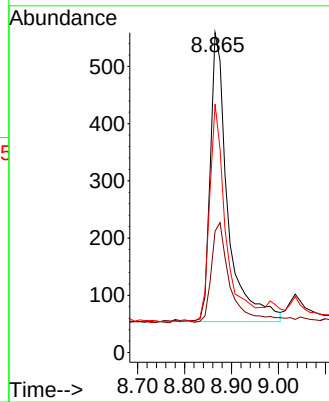
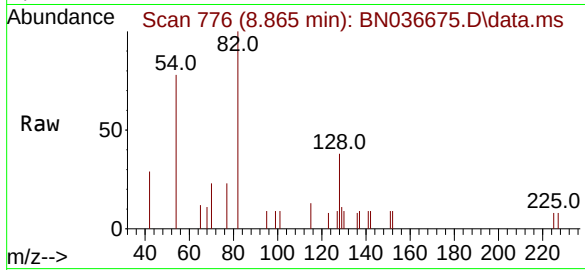




#8
Nitrobenzene-d5
Concen: 0.297 ng
RT: 8.865 min Scan# 71
Delta R.T. -0.010 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

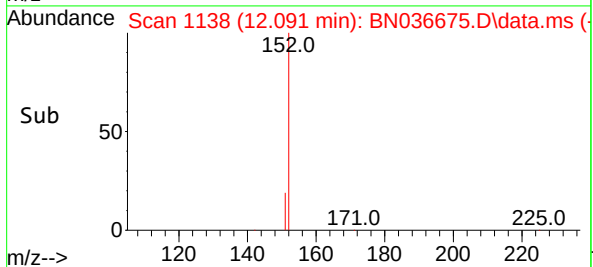
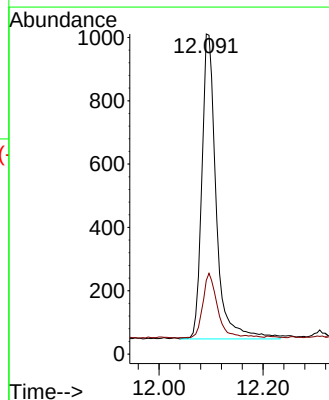
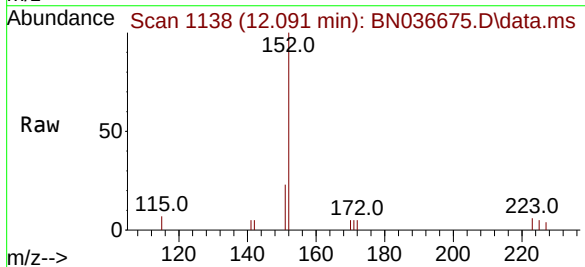
Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250314

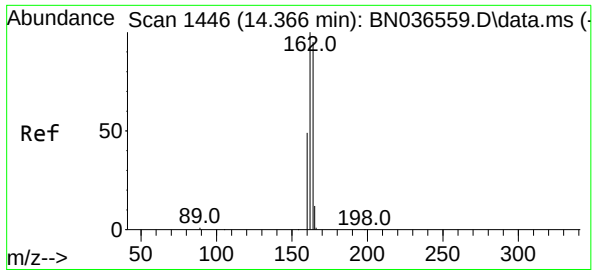
Tgt Ion	82	Resp:	1310
Ion Ratio	Lower	Upper	
82	100		
128	37.9	30.6	45.8
54	77.6	52.2	78.4



#11
2-Methylnaphthalene-d10
Concen: 0.305 ng
RT: 12.091 min Scan# 1138
Delta R.T. -0.020 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

Tgt Ion	152	Resp:	1840
Ion Ratio	Lower	Upper	
152	100		
151	21.4	17.0	25.6

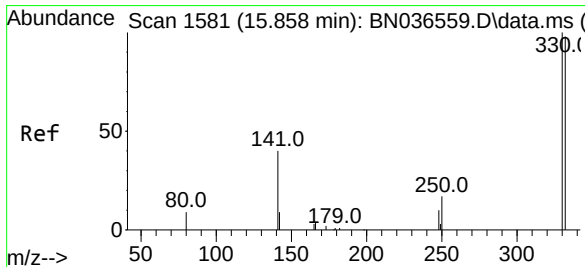
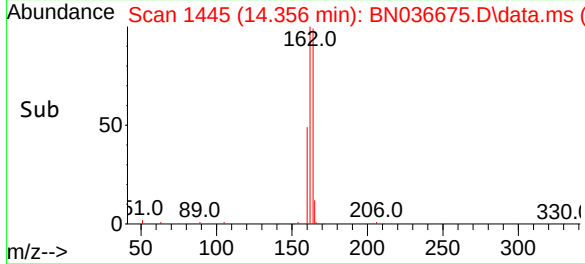
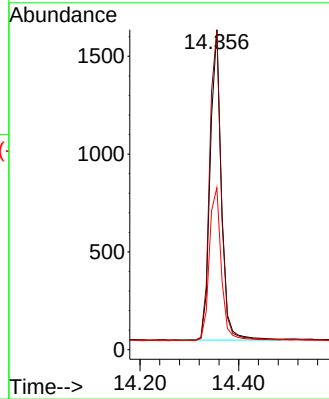
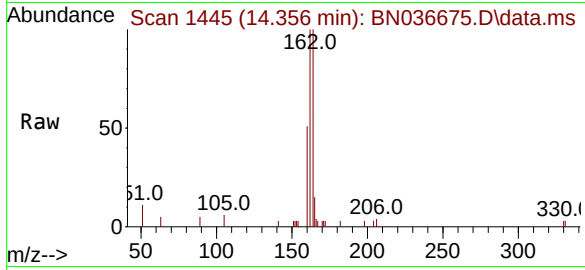




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1445
Delta R.T. -0.010 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

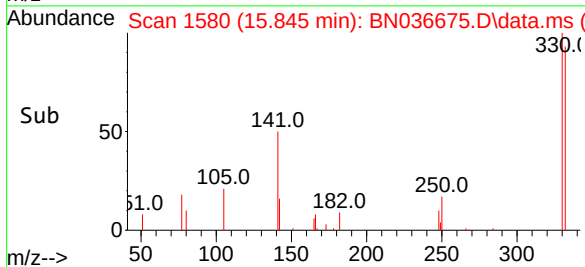
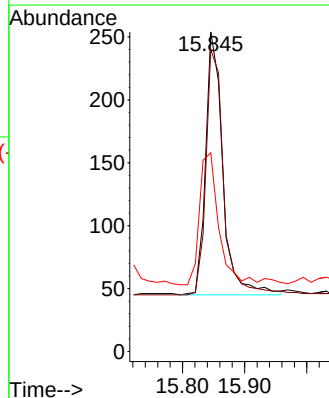
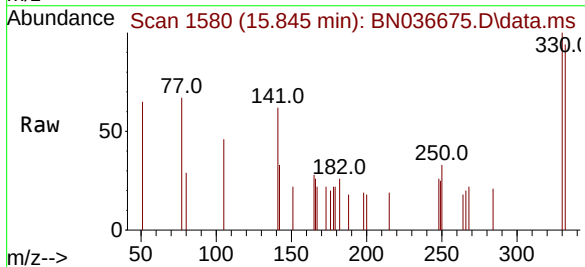
Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250314

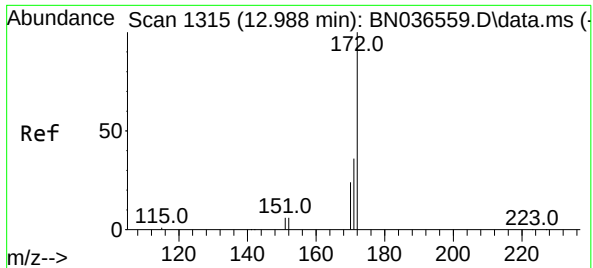
Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.1	84.2	126.2
160	50.7	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.355 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.0	75.2	112.8
141	56.1	43.4	65.2

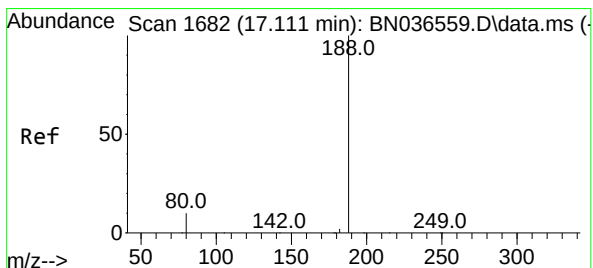
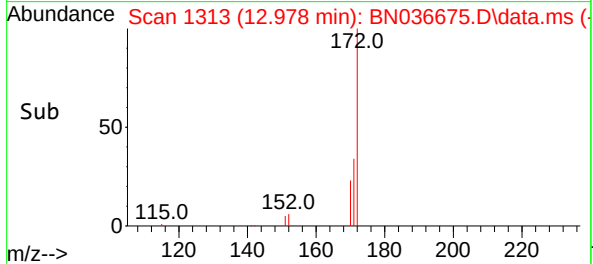
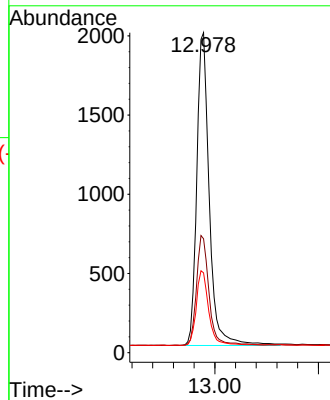
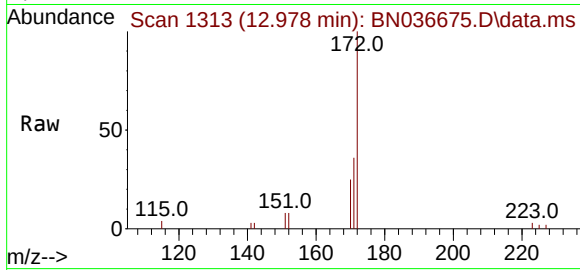




#15
2-Fluorobiphenyl
Concen: 0.325 ng
RT: 12.978 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

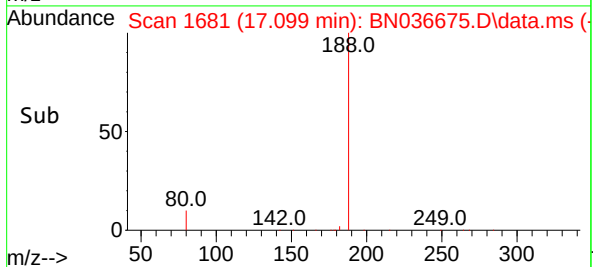
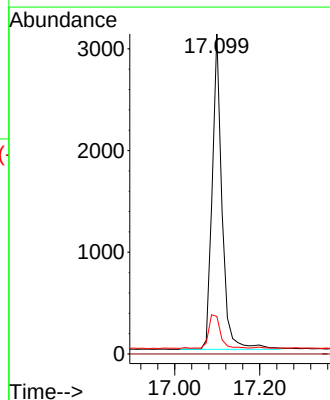
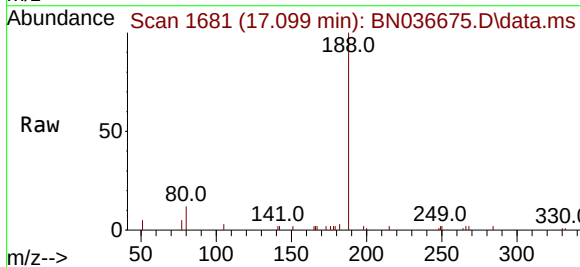
Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250314

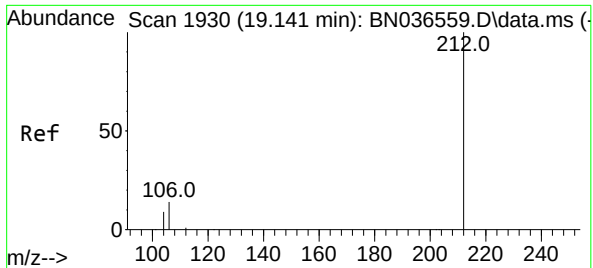
Tgt Ion:	172	Resp:	4719
Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.5	44.3
170	25.0	20.2	30.4



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

Tgt Ion:	188	Resp:	4951
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.8	8.8	13.2

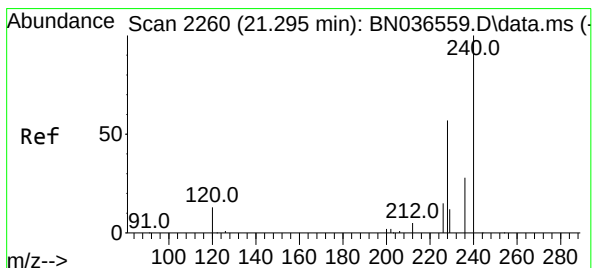
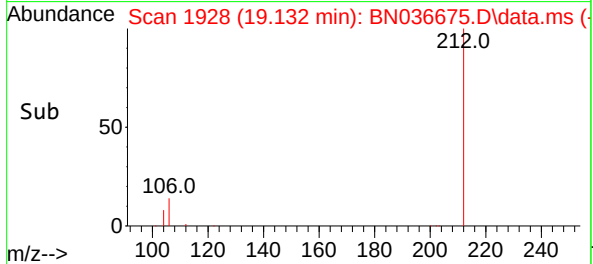
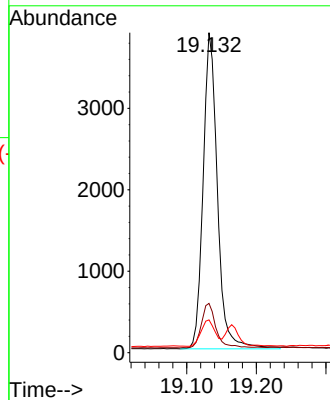
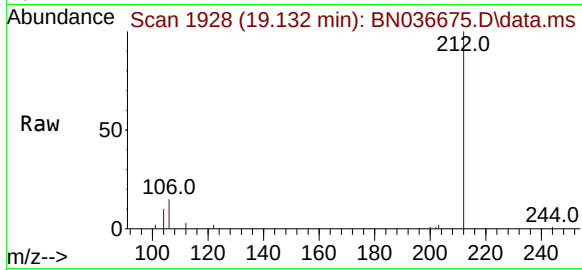




#27
Fluoranthene-d10
Concen: 0.435 ng
RT: 19.132 min Scan# 1930
Delta R.T. -0.009 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

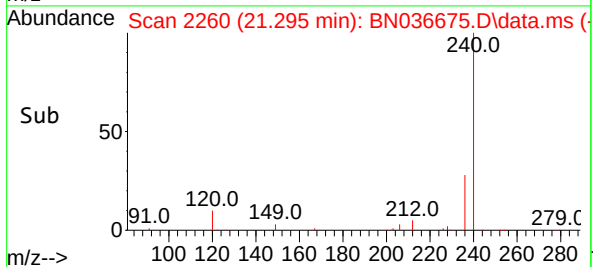
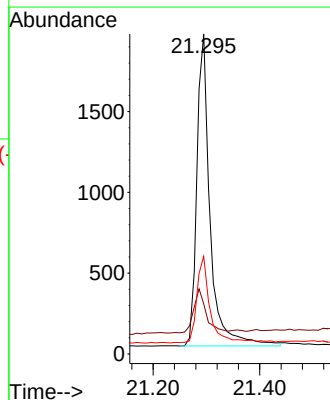
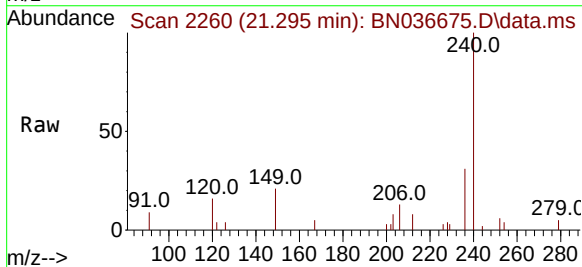
Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250314

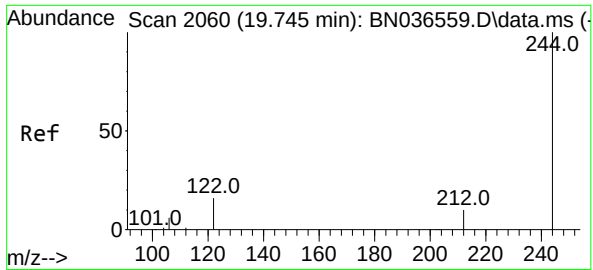
Tgt Ion:212	Resp:	5519
Ion Ratio	Lower	Upper
212	100	
106	14.4	11.8 17.6
104	8.4	7.3 10.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

Tgt Ion:240	Resp:	3334
Ion Ratio	Lower	Upper
240	100	
120	15.7	14.6 22.0
236	30.5	24.1 36.1

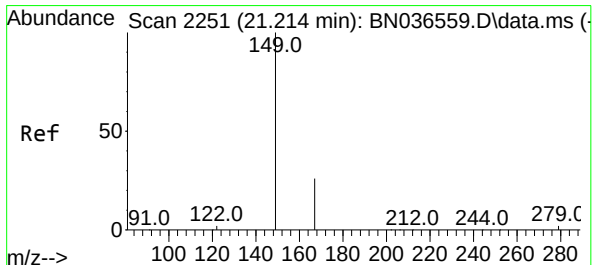
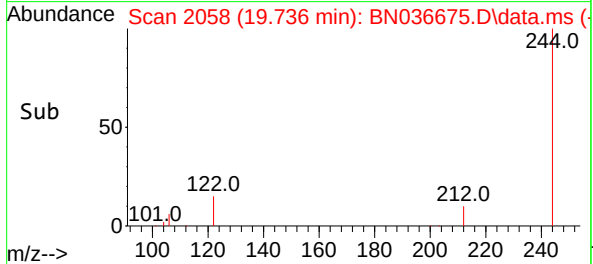
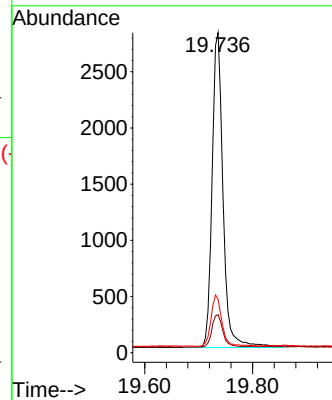
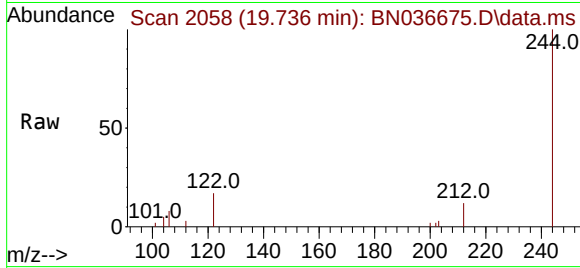




#31
Terphenyl-d14
Concen: 0.495 ng
RT: 19.736 min Scan# 2060
Delta R.T. -0.009 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

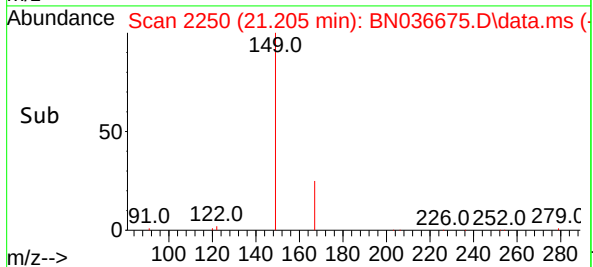
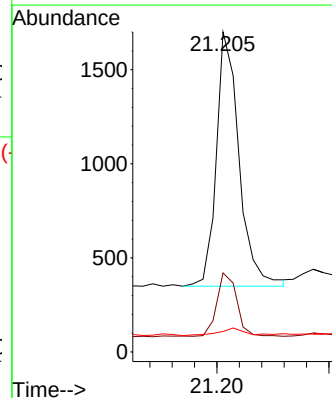
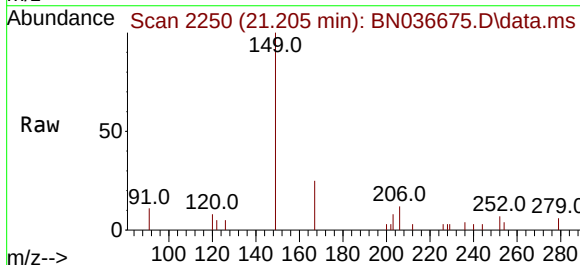
Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250314

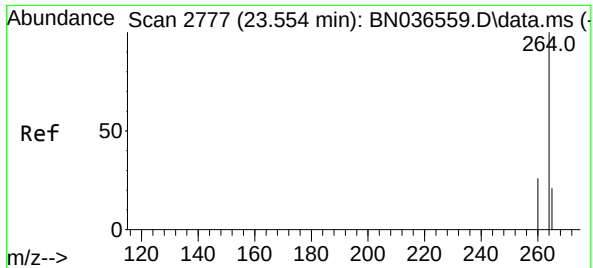
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.9	9.6	14.4
122	16.8	13.9	20.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.230 ng
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

Tgt Ion	Ratio	Lower	Upper
149	100		
167	21.9	20.7	31.1
279	3.6	3.6	5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.546 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036675.D

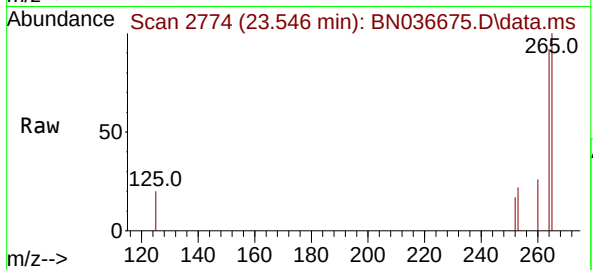
Acq: 18 Mar 2025 01:15

Instrument :

BNA_N

ClientSampleId :

BPOW1-8-20250314



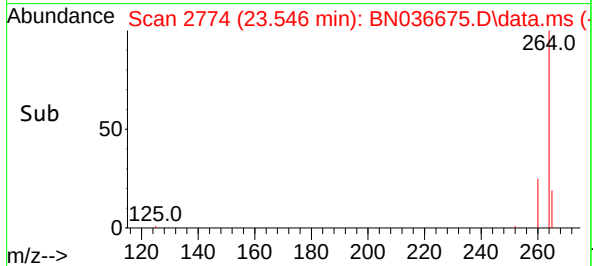
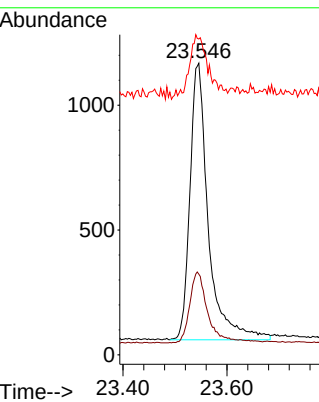
Tgt Ion:264 Resp: 2721

Ion	Ratio	Lower	Upper
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264	100		
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260	27.6	22.6	33.8
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265	108.3	88.1	132.1
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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/14/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	TT191D1-20250314	SDG No.:	Q1582
Lab Sample ID:	Q1582-13	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	950 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036676.D	1	03/17/25 08:48	03/18/25 01:51	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.60		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.25		30 - 150		63%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		107%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		74%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.29		53 - 106		74%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		115%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1730	7.717				
1146-65-2	Naphthalene-d8	4300	10.498				
15067-26-2	Acenaphthene-d10	2550	14.355				
1517-22-2	Phenanthrene-d10	5080	17.099				
1719-03-5	Chrysene-d12	3520	21.295				
1520-96-3	Perylene-d12	2790	23.546				

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\BN031725\
Data File : BN036676.D
Acq On : 18 Mar 2025 01:51
Operator : RC/JU
Sample : Q1582-13
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250314

Quant Time: Mar 18 02:39:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

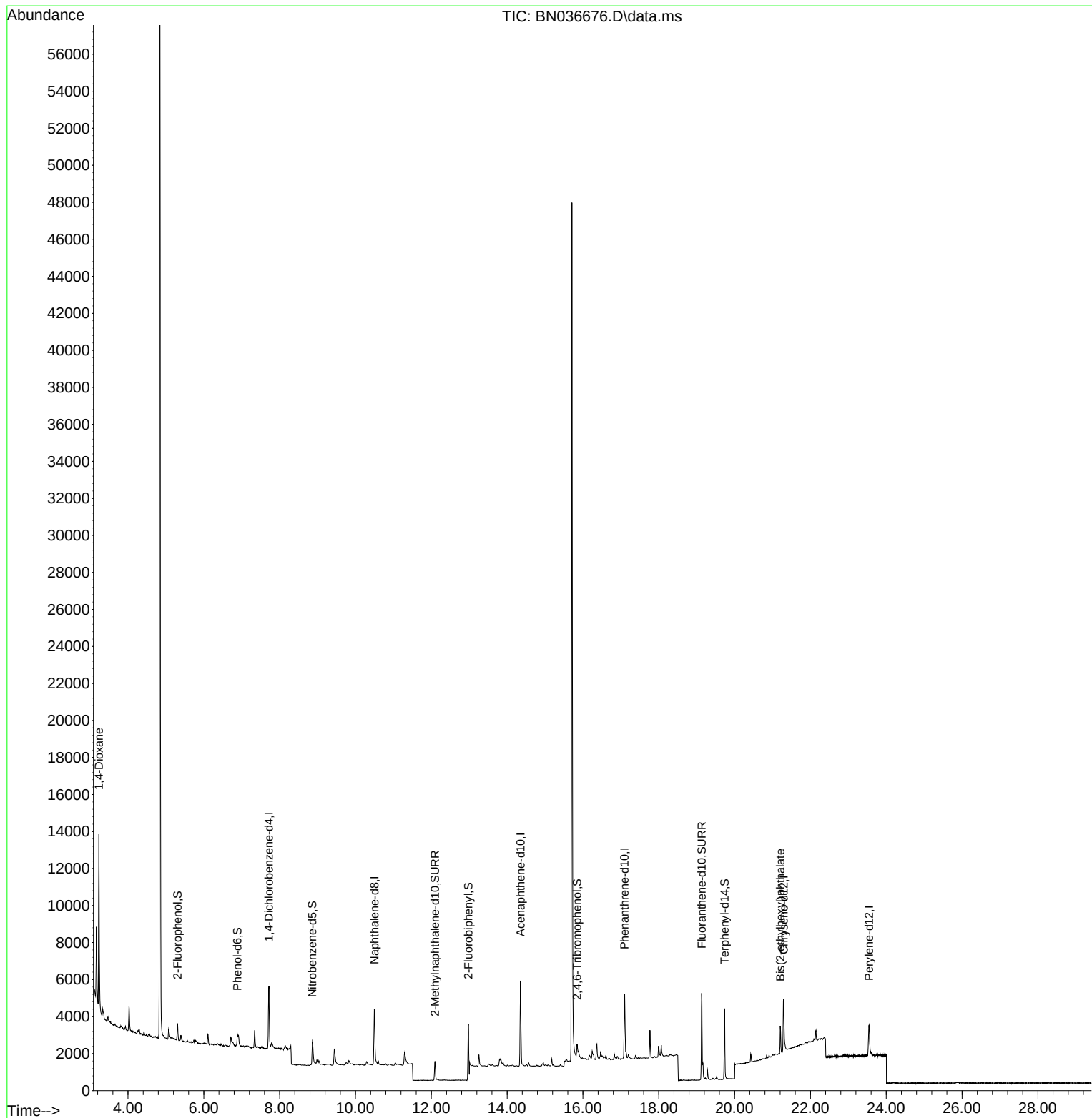
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1725	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4299	0.400	ng	-0.01
13) Acenaphthene-d10	14.355	164	2552	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	5075	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	3524	0.400	ng	0.00
35) Perylene-d12	23.546	264	2792	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	673	0.167	ng	0.00
5) Phenol-d6	6.887	99	500	0.101	ng	-0.01
8) Nitrobenzene-d5	8.865	82	1390	0.297	ng	-0.01
11) 2-Methylnaphthalene-d10	12.096	152	1627	0.254	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	428	0.370	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	4363	0.294	ng	-0.01
27) Fluoranthene-d10	19.132	212	5552	0.427	ng	0.00
31) Terphenyl-d14	19.736	244	3882	0.460	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.232	88	4735	2.474	ng	# 90
34) Bis(2-ethylhexyl)phtha...	21.205	149	1539	0.176	ng	# 96

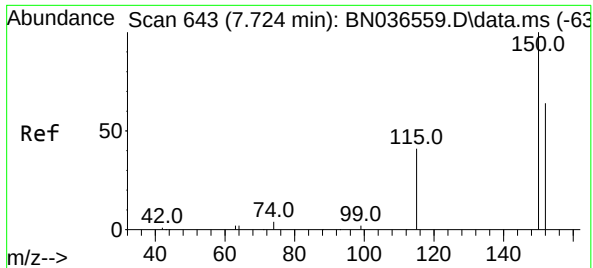
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036676.D
Acq On : 18 Mar 2025 01:51
Operator : RC/JU
Sample : Q1582-13
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250314

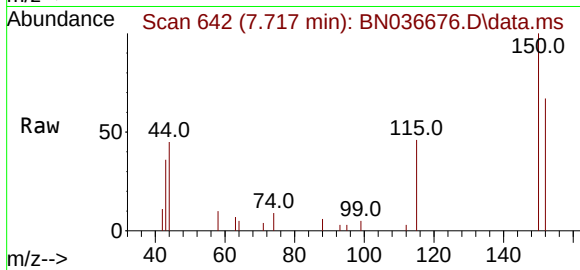
Quant Time: Mar 18 02:39:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



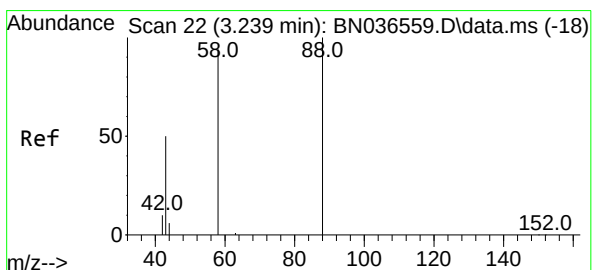
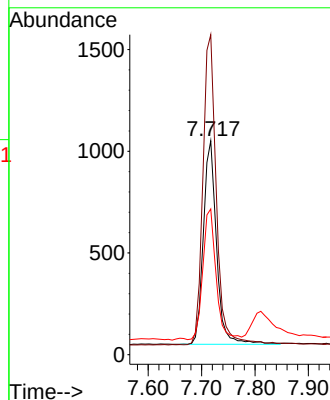
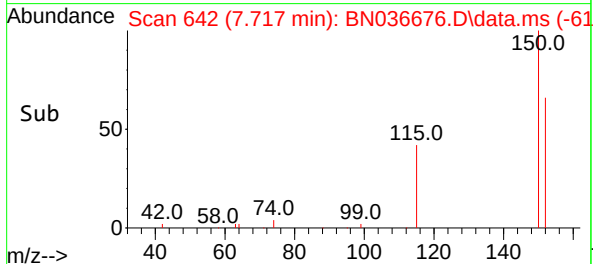


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250314

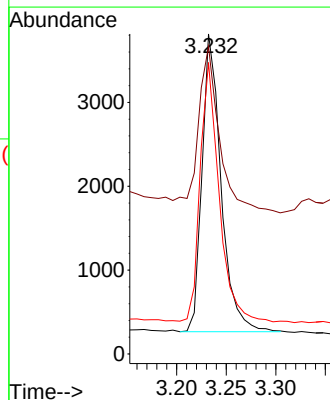
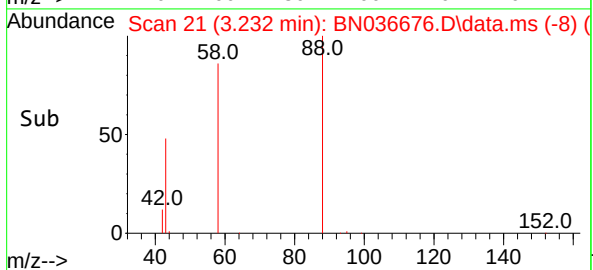
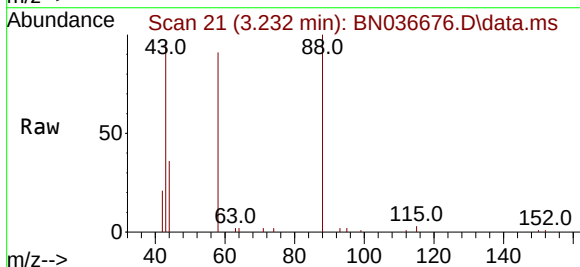


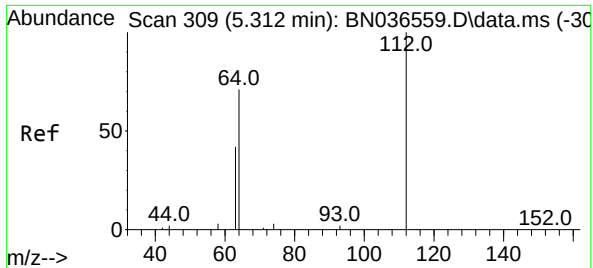
Tgt Ion:152 Resp: 1725
Ion Ratio Lower Upper
152 100
150 149.5 123.7 185.5
115 68.2 54.3 81.5



#2
1,4-Dioxane
Concen: 2.474 ng
RT: 3.232 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

Tgt Ion: 88 Resp: 4735
Ion Ratio Lower Upper
88 100
43 63.3 37.8 56.8#
58 86.7 67.4 101.2

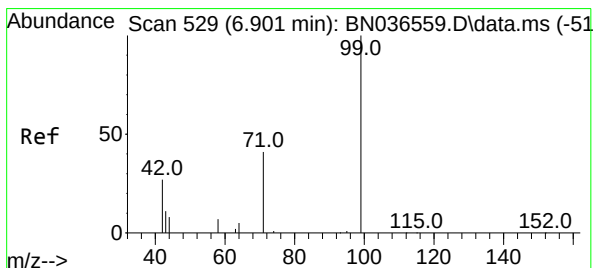
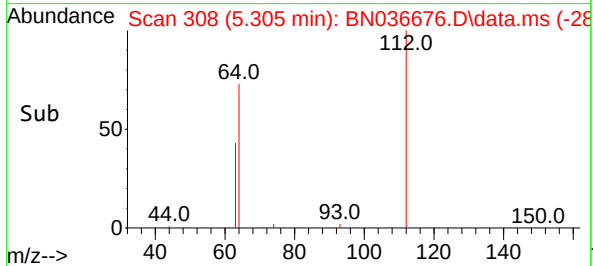
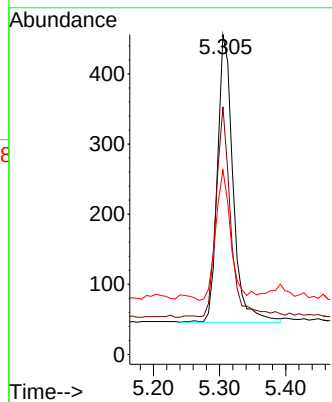
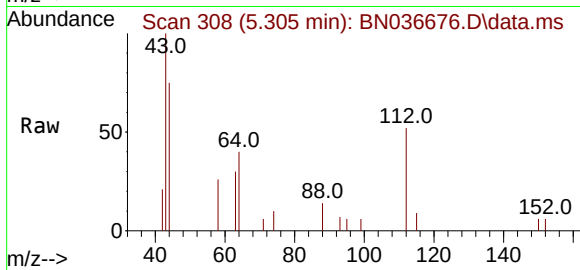




#4
2-Fluorophenol
Concen: 0.167 ng
RT: 5.305 min Scan# 309
Delta R.T. -0.007 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

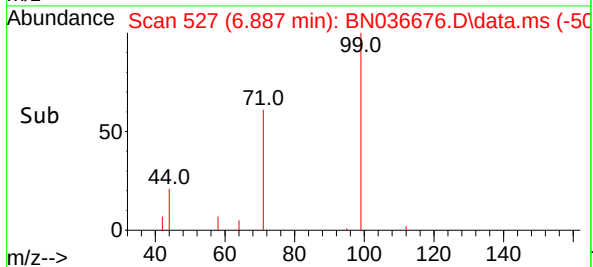
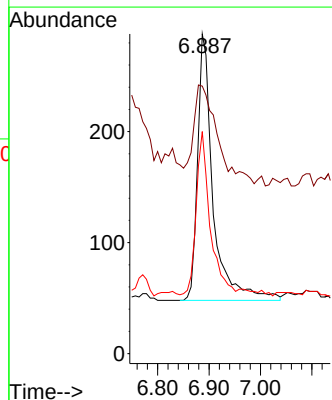
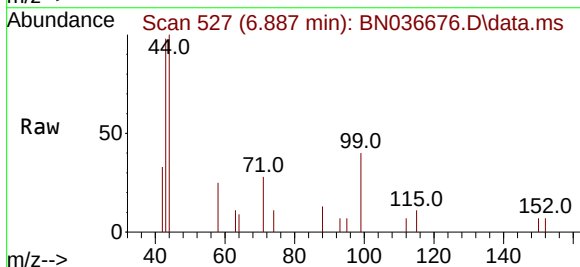
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250314

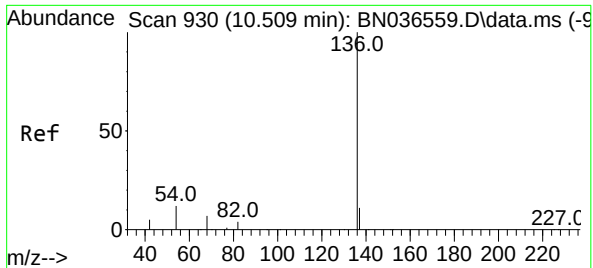
Tgt Ion:112 Resp: 673
Ion Ratio Lower Upper
112 100
64 67.6 53.1 79.7
63 44.1 31.8 47.8



#5
Phenol-d6
Concen: 0.101 ng
RT: 6.887 min Scan# 527
Delta R.T. -0.014 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

Tgt Ion: 99 Resp: 500
Ion Ratio Lower Upper
99 100
42 57.2 26.5 39.7#
71 55.0 34.1 51.1#

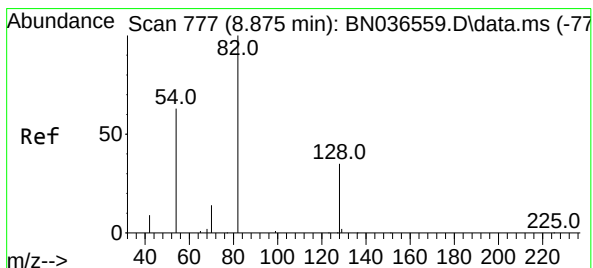
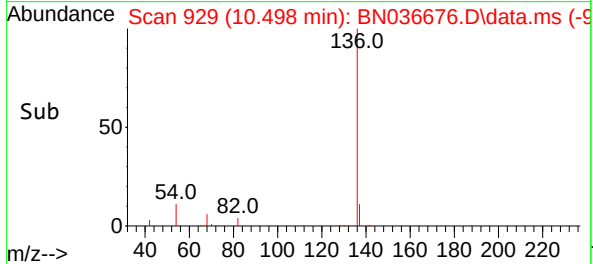
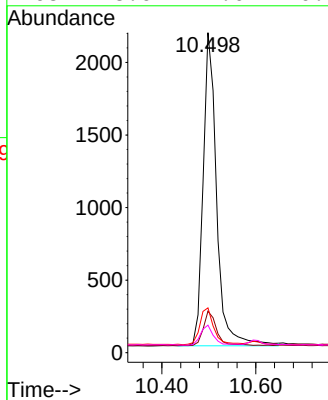
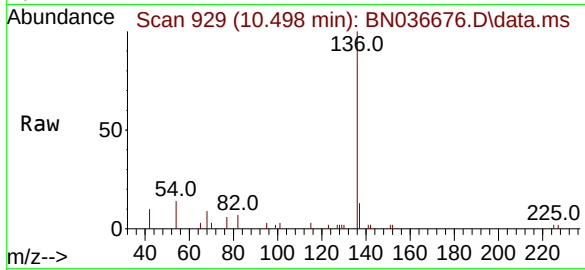




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

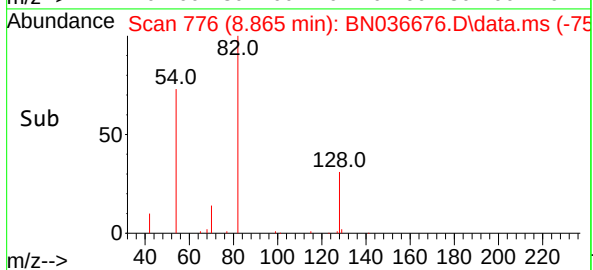
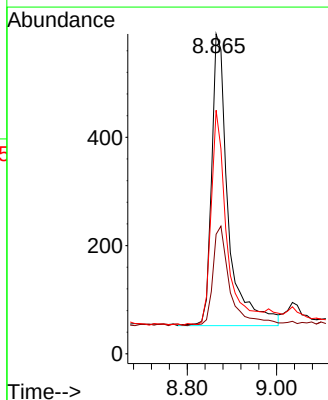
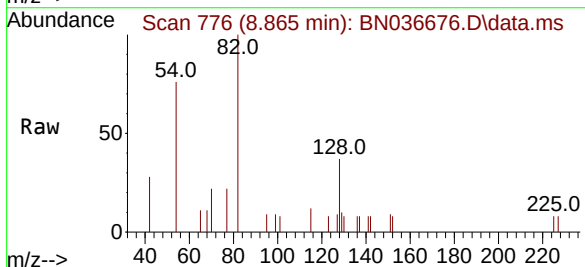
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250314

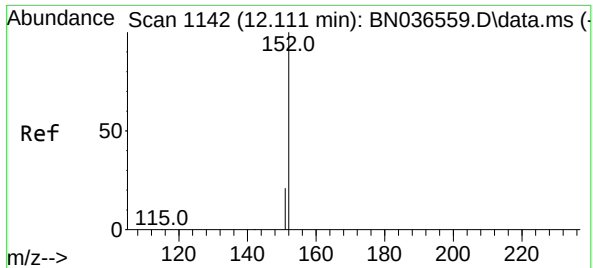
Tgt Ion:	136	Resp:	4299
Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.3	15.5
54	14.0	11.5	17.3
68	8.6	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.297 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

Tgt Ion:	82	Resp:	1390
Ion	Ratio	Lower	Upper
82	100		
128	37.4	30.6	45.8
54	76.1	52.2	78.4

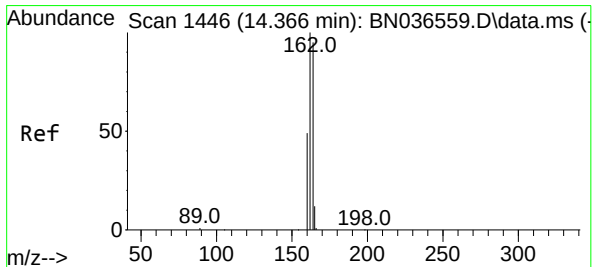
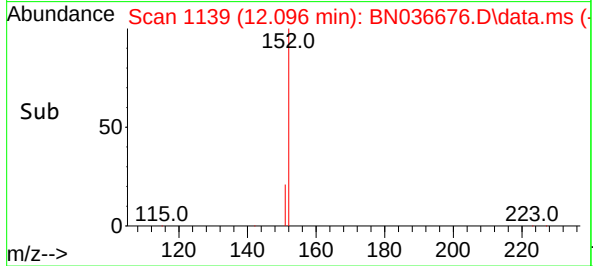
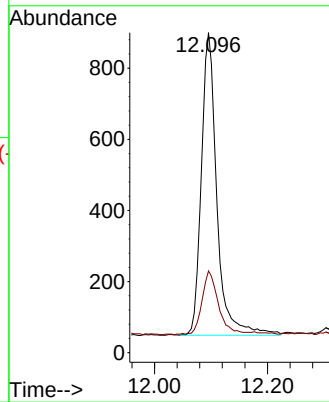
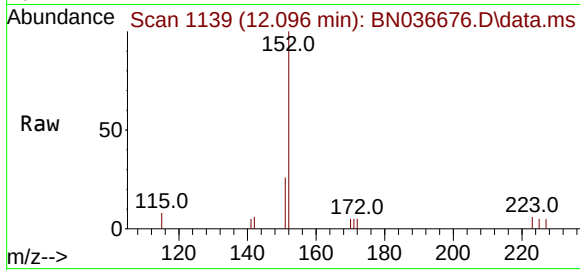




#11
2-Methylnaphthalene-d10
Concen: 0.254 ng
RT: 12.096 min Scan# 1142
Delta R.T. -0.015 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

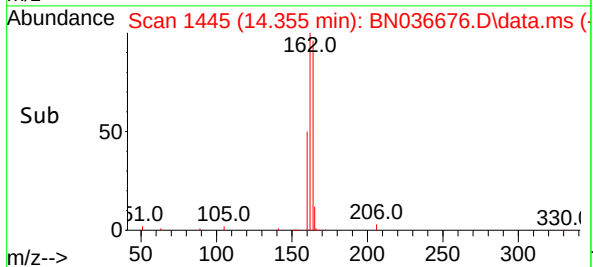
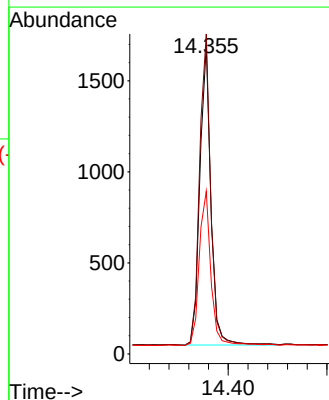
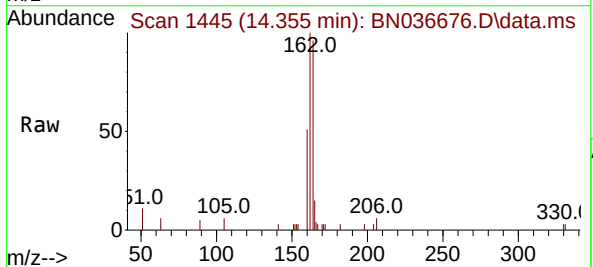
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250314

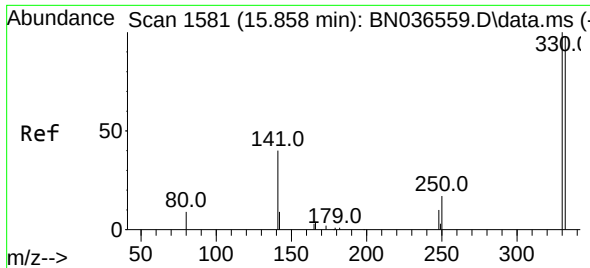
Tgt Ion:152 Resp: 1627
Ion Ratio Lower Upper
152 100
151 22.1 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

Tgt Ion:164 Resp: 2552
Ion Ratio Lower Upper
164 100
162 103.7 84.2 126.2
160 52.7 42.2 63.2

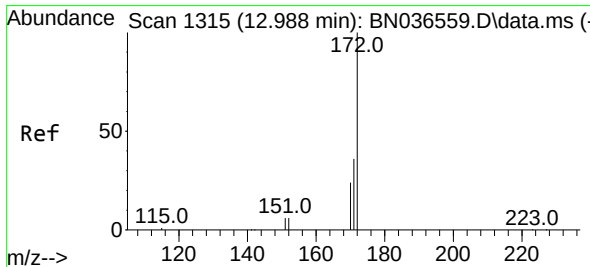
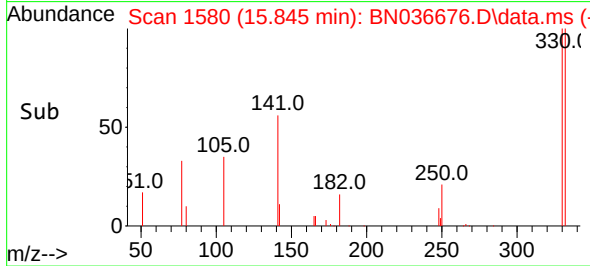
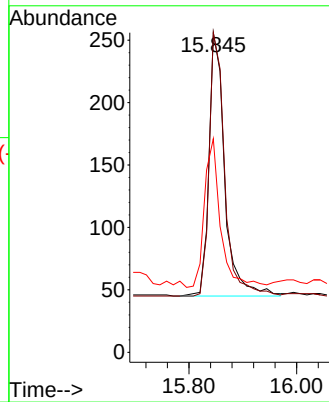
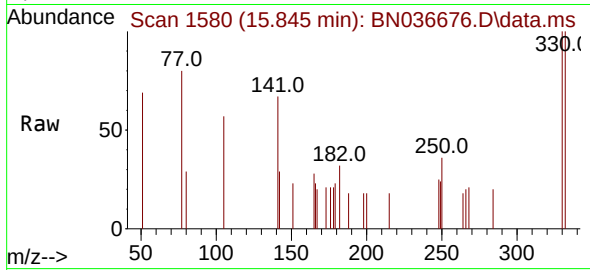




#14
2,4,6-Tribromophenol
Concen: 0.370 ng
RT: 15.845 min Scan# 11
Delta R.T. -0.012 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

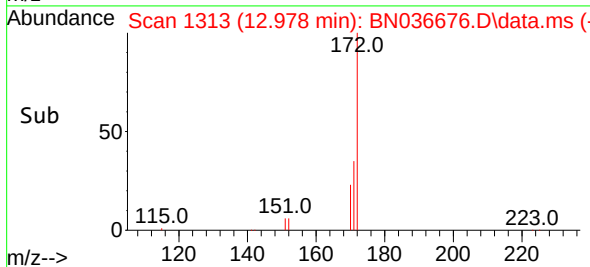
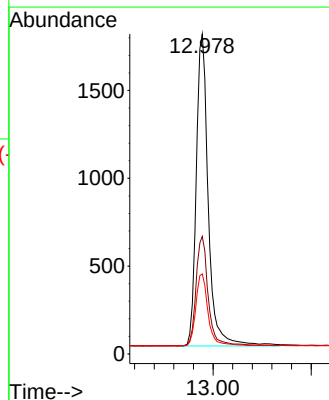
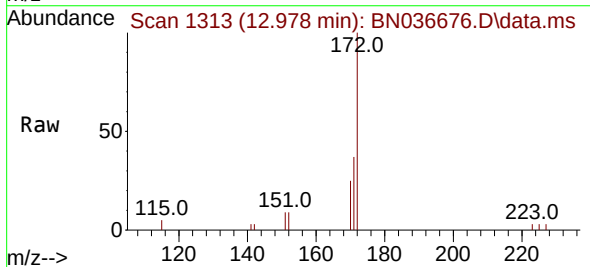
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250314

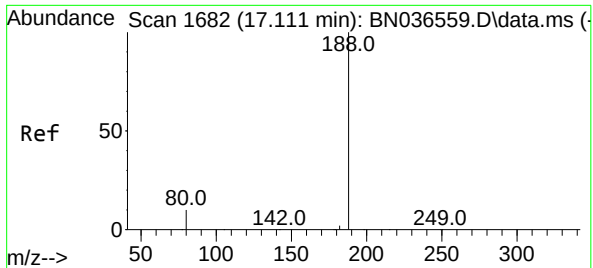
Tgt Ion:330 Resp: 428
Ion Ratio Lower Upper
330 100
332 98.4 75.2 112.8
141 57.7 43.4 65.2



#15
2-Fluorobiphenyl
Concen: 0.294 ng
RT: 12.978 min Scan# 1313
Delta R.T. -0.010 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

Tgt Ion:172 Resp: 4363
Ion Ratio Lower Upper
172 100
171 36.7 29.5 44.3
170 25.0 20.2 30.4

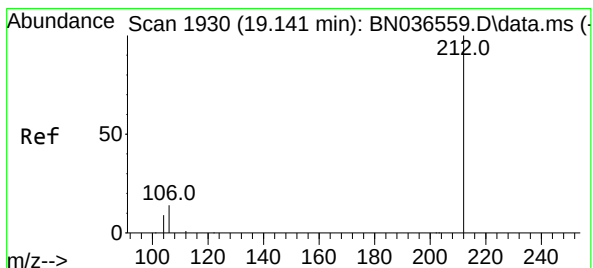
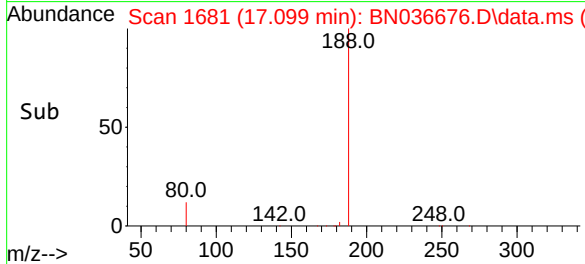
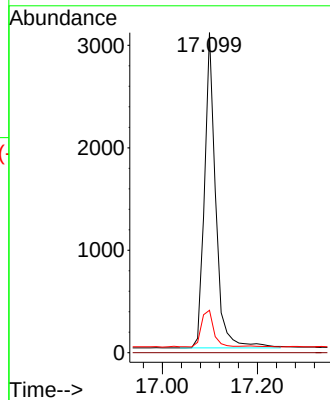
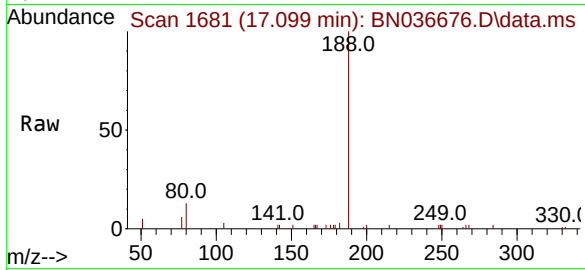




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

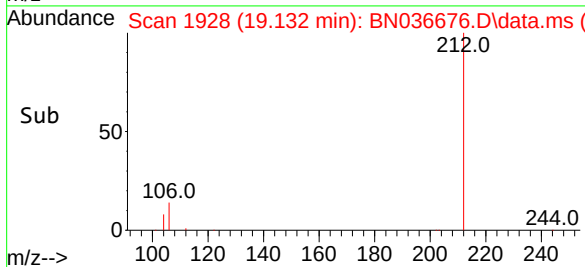
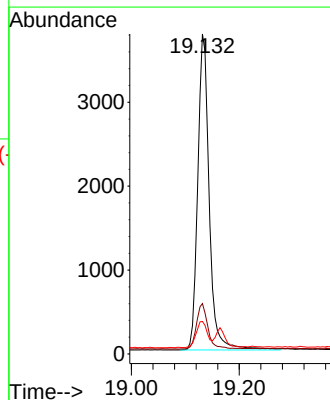
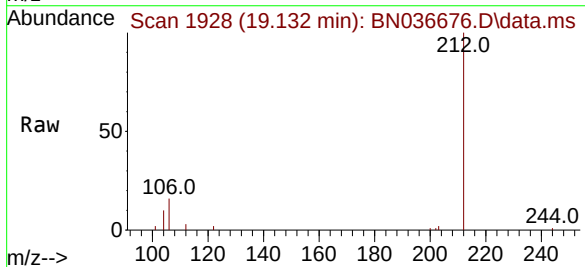
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250314

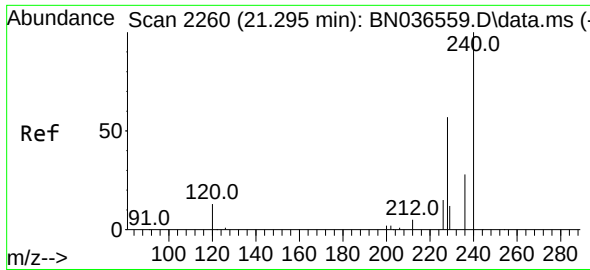
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.2	8.8	13.2#



#27
Fluoranthene-d10
Concen: 0.427 ng
RT: 19.132 min Scan# 1928
Delta R.T. -0.009 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.4	11.8	17.6
104	8.3	7.3	10.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036676.D

Acq: 18 Mar 2025 01:51

Instrument :

BNA_N

ClientSampleId :

TT191D1-20250314

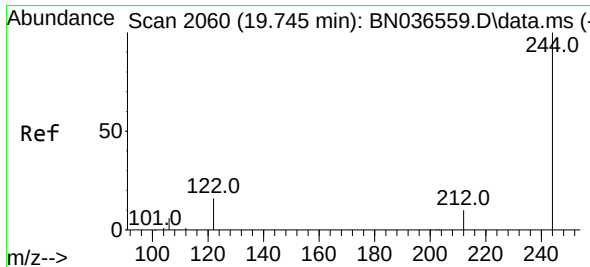
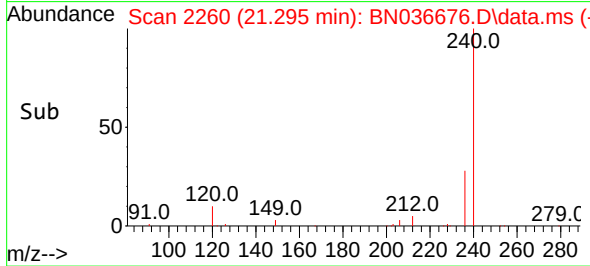
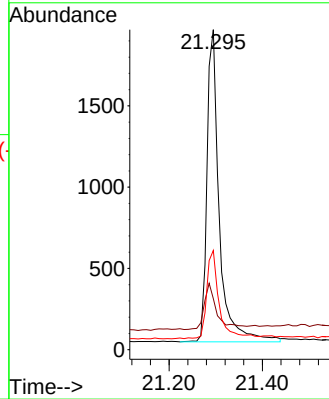
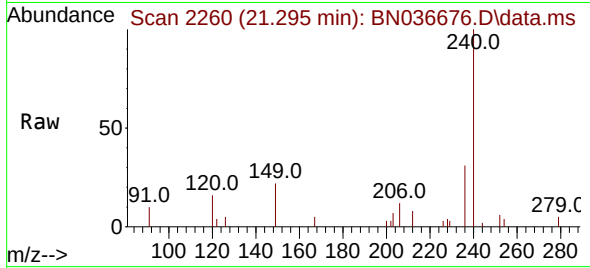
Tgt Ion:240 Resp: 3524

Ion Ratio Lower Upper

240 100

120 15.9 14.6 22.0

236 31.0 24.1 36.1



#31

Terphenyl-d14

Concen: 0.460 ng

RT: 19.736 min Scan# 2058

Delta R.T. -0.009 min

Lab File: BN036676.D

Acq: 18 Mar 2025 01:51

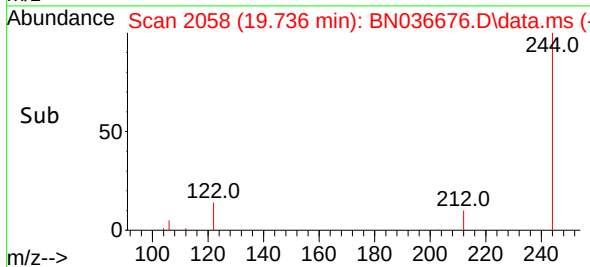
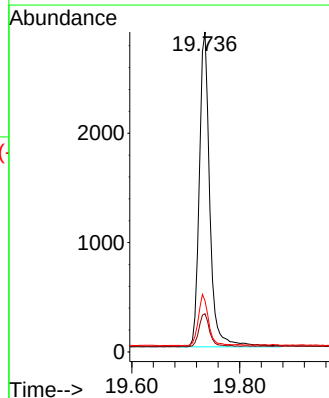
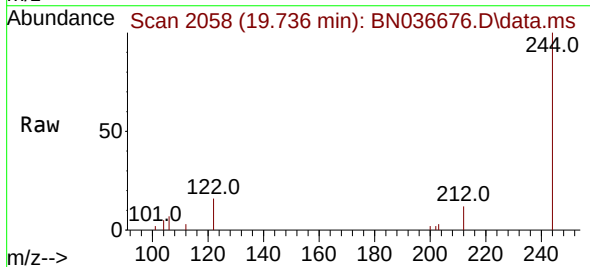
Tgt Ion:244 Resp: 3882

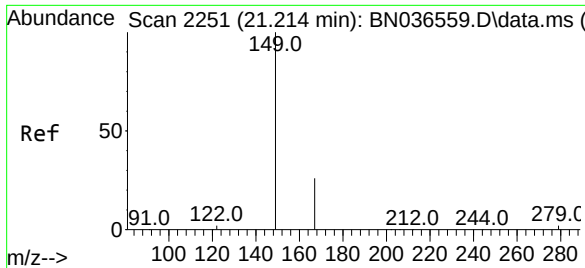
Ion Ratio Lower Upper

244 100

212 11.9 9.6 14.4

122 16.0 13.9 20.9

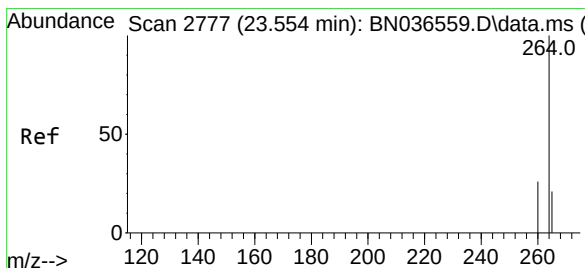
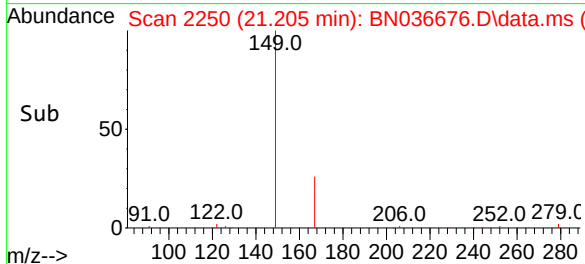
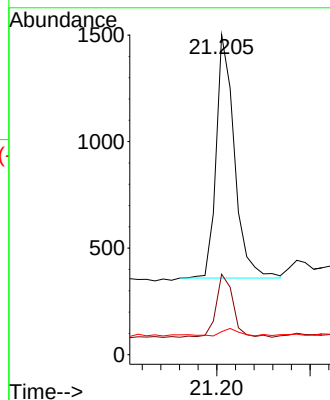
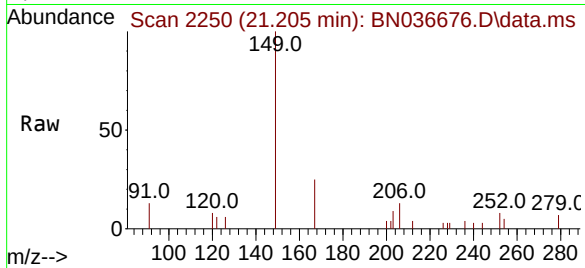




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.176 ng
RT: 21.205 min Scan# 2120
Delta R.T. -0.009 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

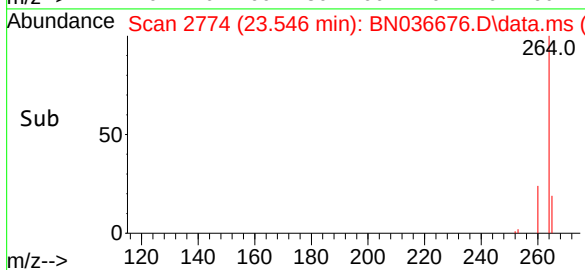
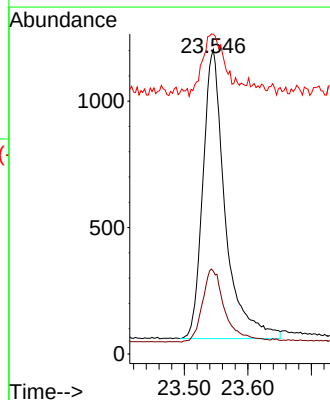
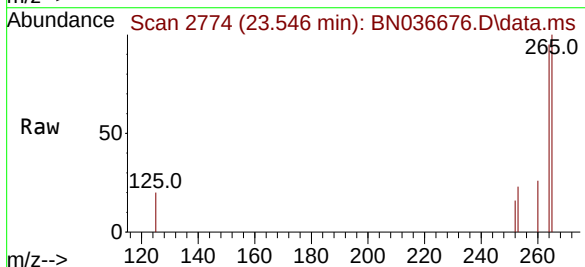
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250314

Tgt Ion:149 Resp: 1539
Ion Ratio Lower Upper
149 100
167 24.2 20.7 31.1
279 2.7 3.6 5.4#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.546 min Scan# 2774
Delta R.T. -0.009 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

Tgt Ion:264 Resp: 2792
Ion Ratio Lower Upper
264 100
260 27.2 22.6 33.8
265 105.1 88.1 132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/14/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	TT191D2-20250314	SDG No.:	Q1582
Lab Sample ID:	Q1582-14	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
BN036677.D	1	03/17/25 08:48	03/18/25 02:28	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.57		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.24		30 - 150		60%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		53 - 106		67%	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	1800	7.717				
1146-65-2	Naphthalene-d8	4500	10.498				
15067-26-2	Acenaphthene-d10	2730	14.355				
1517-22-2	Phenanthrene-d10	5580	17.099				
1719-03-5	Chrysene-d12	3990	21.294				
1520-96-3	Perylene-d12	3140	23.539				

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\BN031725\
Data File : BN036677.D
Acq On : 18 Mar 2025 02:28
Operator : RC/JU
Sample : Q1582-14
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT191D2-20250314

Quant Time: Mar 18 02:59:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

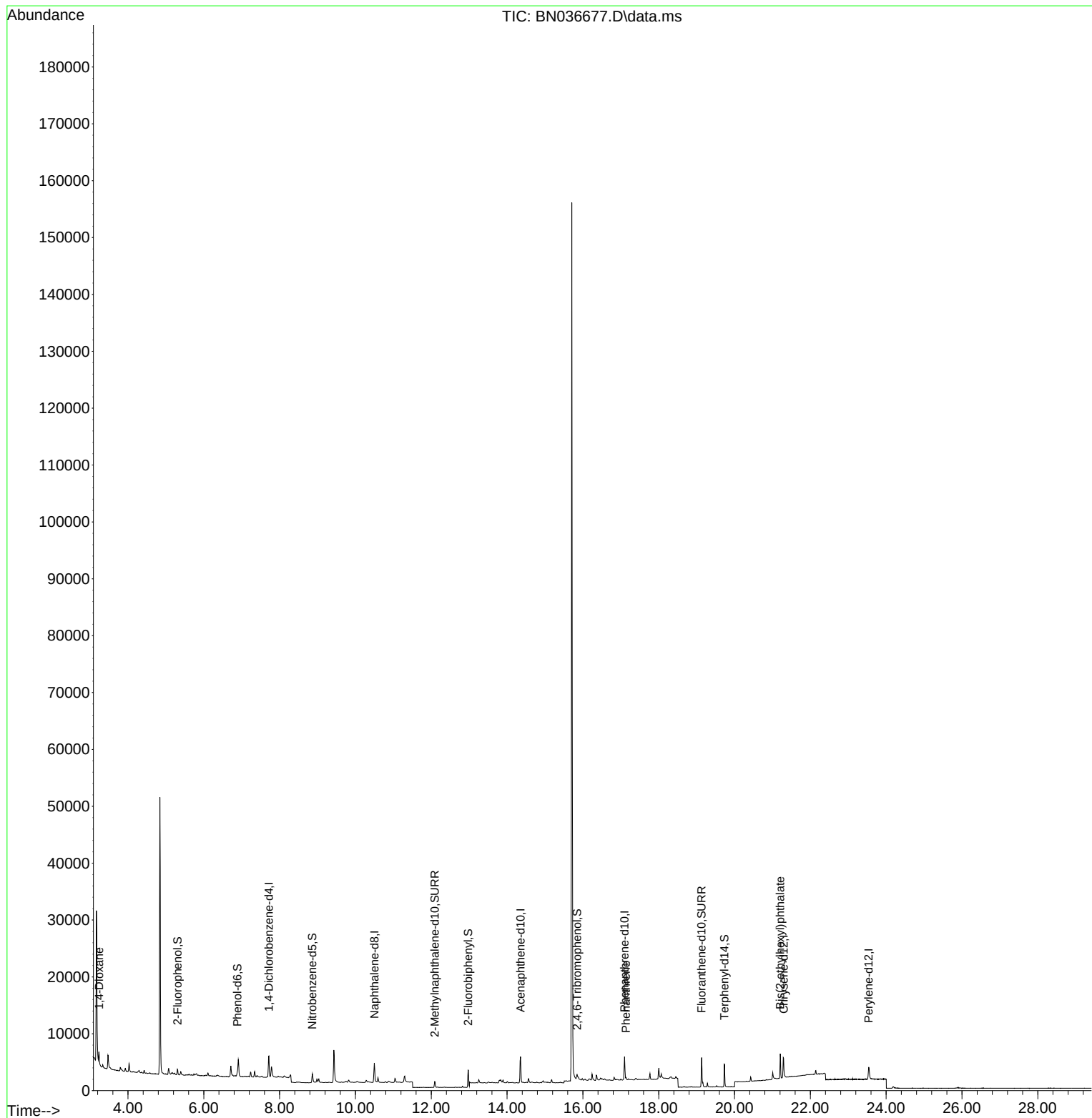
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1797	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4496	0.400	ng	-0.01
13) Acenaphthene-d10	14.355	164	2727	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	5582	0.400	ng	-0.01
29) Chrysene-d12	21.294	240	3987	0.400	ng	0.00
35) Perylene-d12	23.539	264	3141	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	694	0.166	ng	0.00
5) Phenol-d6	6.886	99	568	0.110	ng	-0.01
8) Nitrobenzene-d5	8.864	82	1416	0.290	ng	-0.01
11) 2-Methylnaphthalene-d10	12.090	152	1589	0.238	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	442	0.357	ng	-0.01
15) 2-Fluorobiphenyl	12.973	172	4250	0.268	ng	-0.02
27) Fluoranthene-d10	19.131	212	5699	0.398	ng	0.00
31) Terphenyl-d14	19.735	244	3921	0.410	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	1138	0.571	ng	# 67
25) Phenanthrene	17.136	178	433	0.026	ng	# 91
34) Bis(2-ethylhexyl)phtha...	21.205	149	4149	0.420	ng	# 98

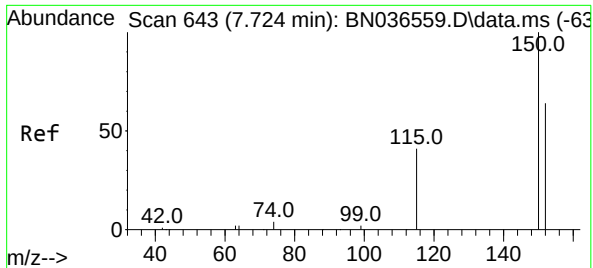
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036677.D
Acq On : 18 Mar 2025 02:28
Operator : RC/JU
Sample : Q1582-14
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT191D2-20250314

Quant Time: Mar 18 02:59:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

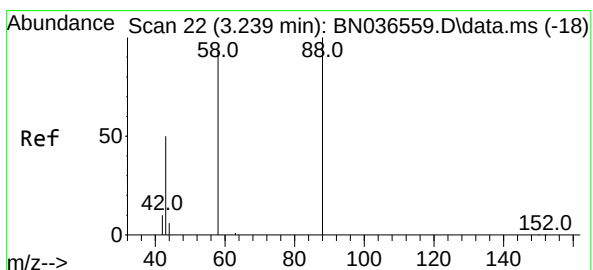
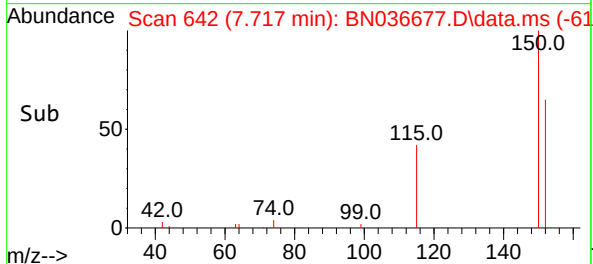
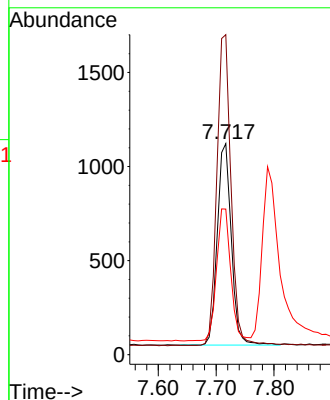
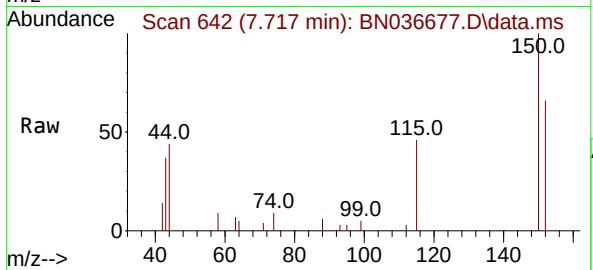




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

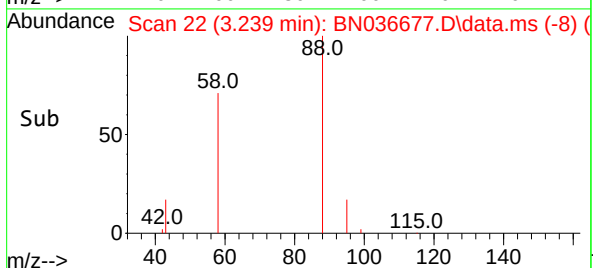
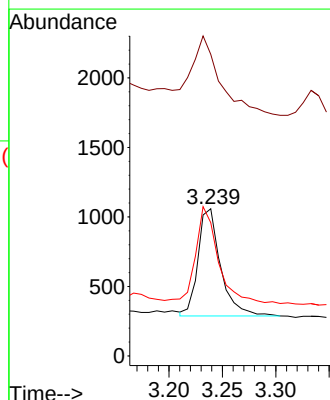
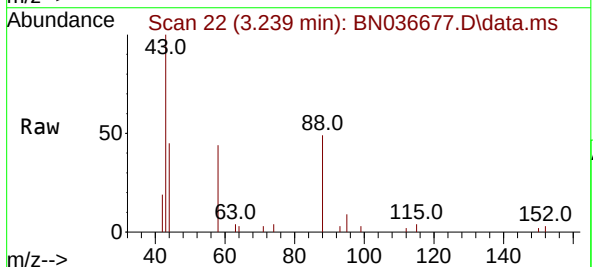
Instrument :
BNA_N
ClientSampleId :
TT191D2-20250314

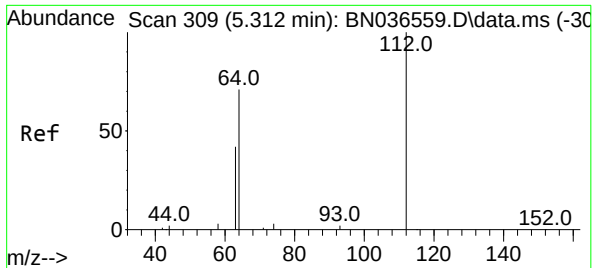
Tgt Ion:152 Resp: 1797
Ion Ratio Lower Upper
152 100
150 151.6 123.7 185.5
115 69.0 54.3 81.5



#2
1,4-Dioxane
Concen: 0.571 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

Tgt Ion: 88 Resp: 1138
Ion Ratio Lower Upper
88 100
43 100.7 37.8 56.8#
58 91.0 67.4 101.2

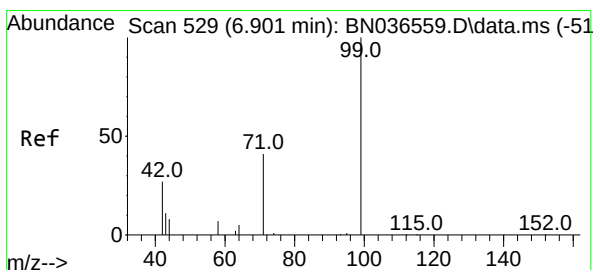
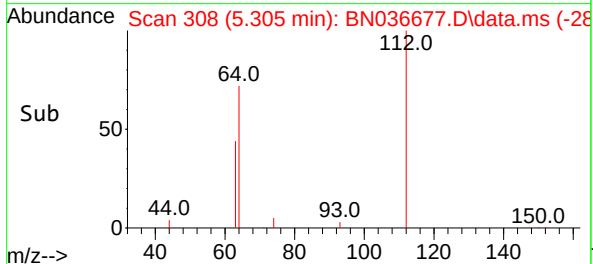
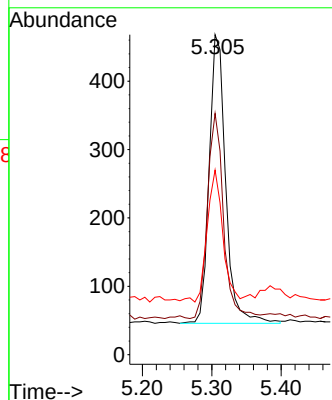
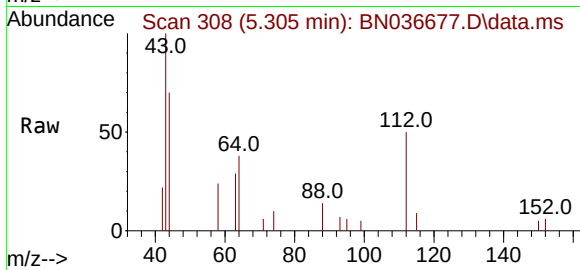




#4
2-Fluorophenol
Concen: 0.166 ng
RT: 5.305 min Scan# 309
Delta R.T. -0.007 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

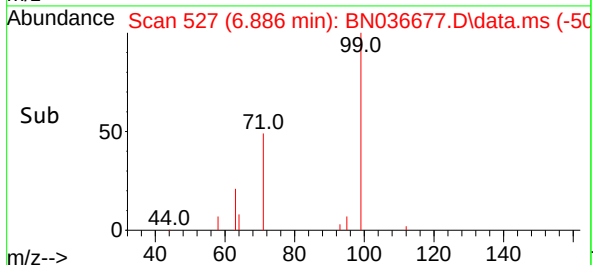
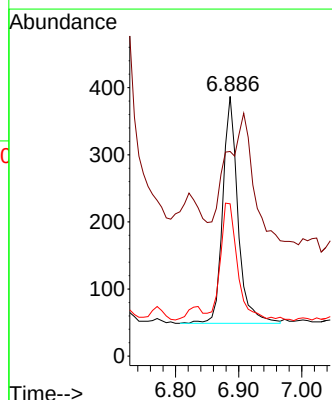
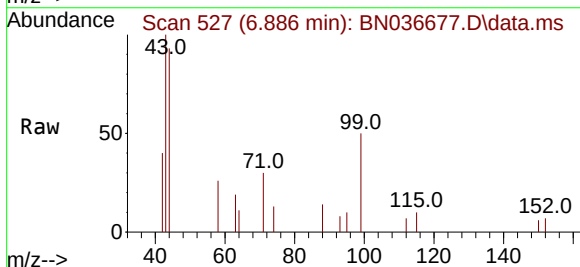
Instrument :
BNA_N
ClientSampleId :
TT191D2-20250314

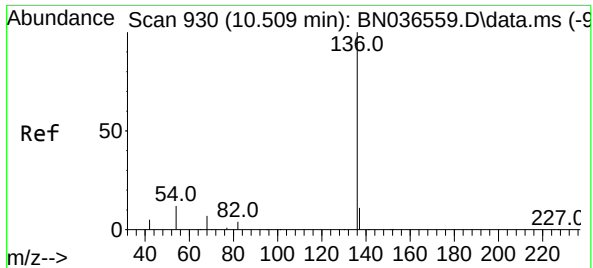
Tgt Ion:112 Resp: 694
Ion Ratio Lower Upper
112 100
64 69.5 53.1 79.7
63 42.5 31.8 47.8



#5
Phenol-d6
Concen: 0.110 ng
RT: 6.886 min Scan# 527
Delta R.T. -0.015 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

Tgt Ion: 99 Resp: 568
Ion Ratio Lower Upper
99 100
42 0.0 26.5 39.7#
71 59.2 34.1 51.1#

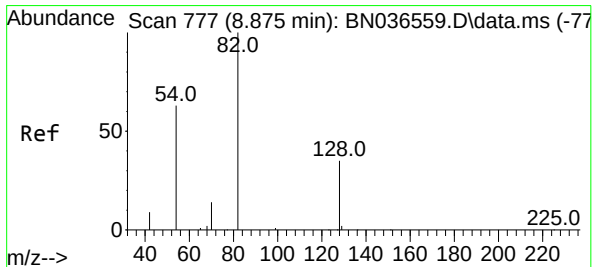
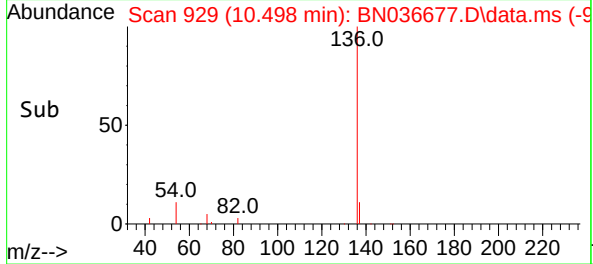
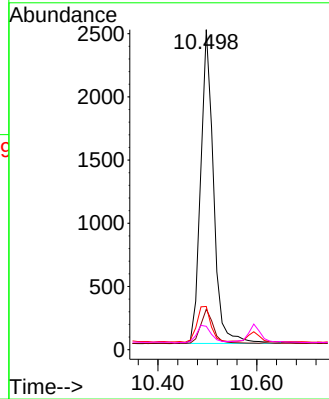
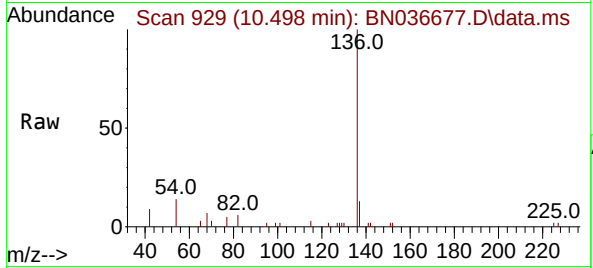




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

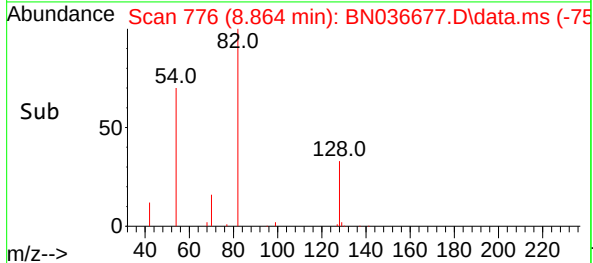
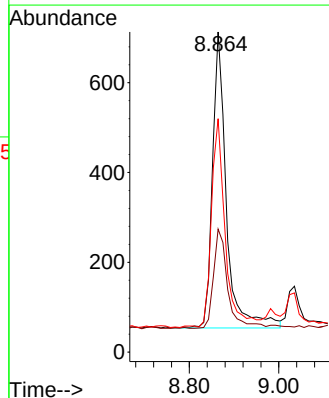
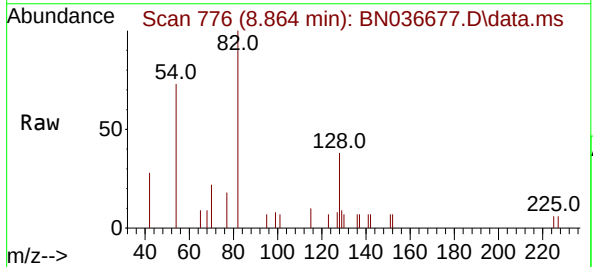
Instrument :
BNA_N
ClientSampleId :
TT191D2-20250314

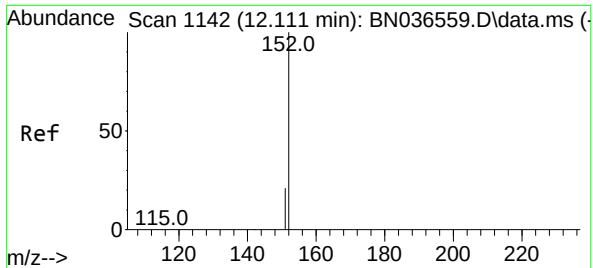
Tgt Ion:	136	Resp:	4496
Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.3	15.5
54	13.5	11.5	17.3
68	7.3	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.290 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

Tgt Ion:	82	Resp:	1416
Ion	Ratio	Lower	Upper
82	100		
128	38.4	30.6	45.8
54	72.9	52.2	78.4

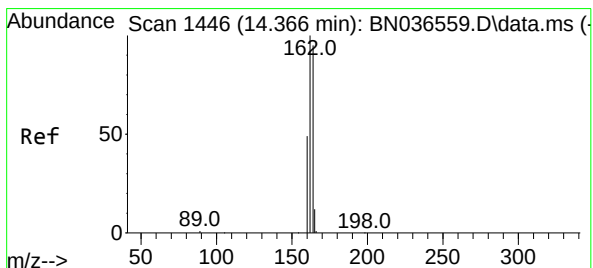
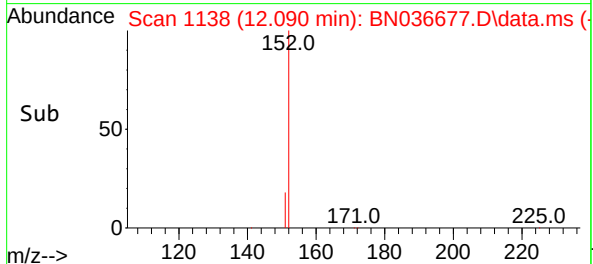
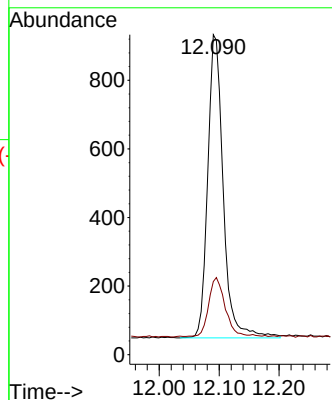
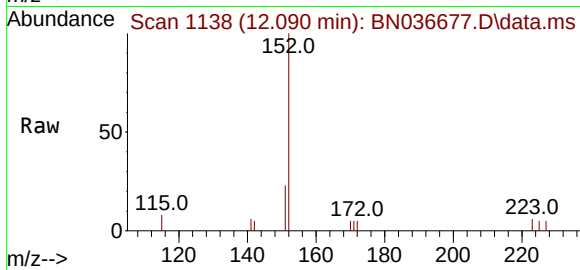




#11
2-Methylnaphthalene-d10
Concen: 0.238 ng
RT: 12.090 min Scan# 1142
Delta R.T. -0.021 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

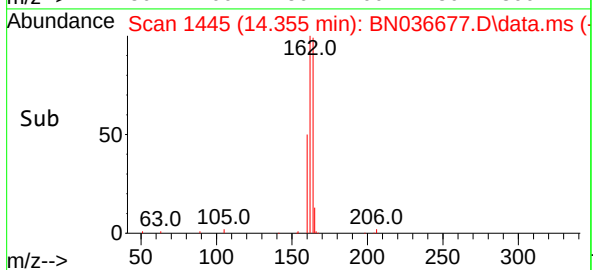
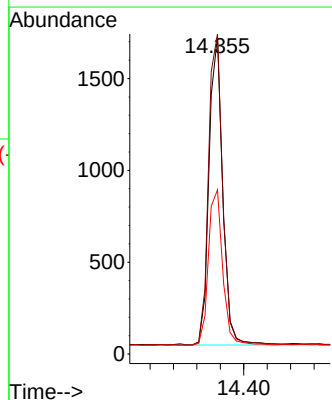
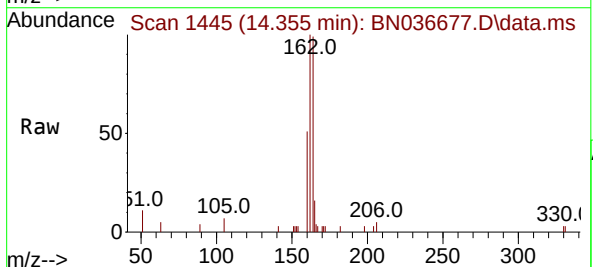
Instrument :
BNA_N
ClientSampleId :
TT191D2-20250314

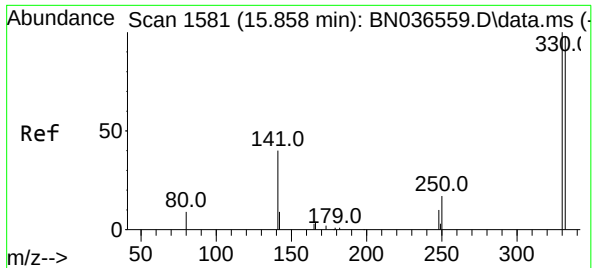
Tgt Ion:152 Resp: 1589
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

Tgt Ion:164 Resp: 2727
Ion Ratio Lower Upper
164 100
162 100.7 84.2 126.2
160 51.6 42.2 63.2





#14

2,4,6-Tribromophenol

Concen: 0.357 ng

RT: 15.845 min Scan# 11

Delta R.T. -0.013 min

Lab File: BN036677.D

Acq: 18 Mar 2025 02:28

Instrument :

BNA_N

ClientSampleId :

TT191D2-20250314

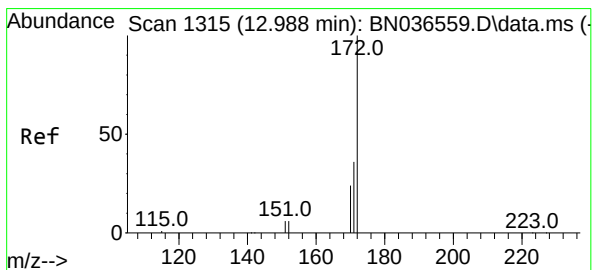
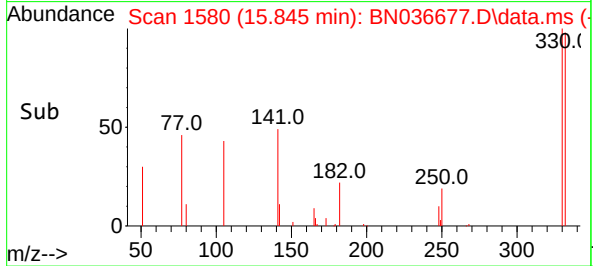
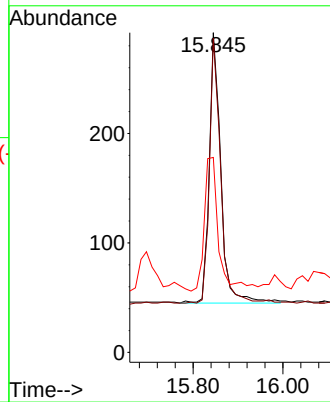
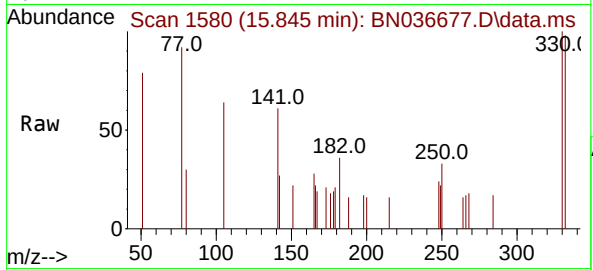
Tgt Ion:330 Resp: 442

Ion Ratio Lower Upper

330 100

332 93.4 75.2 112.8

141 61.1 43.4 65.2



#15

2-Fluorobiphenyl

Concen: 0.268 ng

RT: 12.973 min Scan# 1312

Delta R.T. -0.015 min

Lab File: BN036677.D

Acq: 18 Mar 2025 02:28

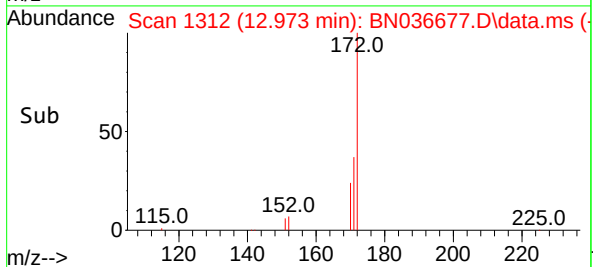
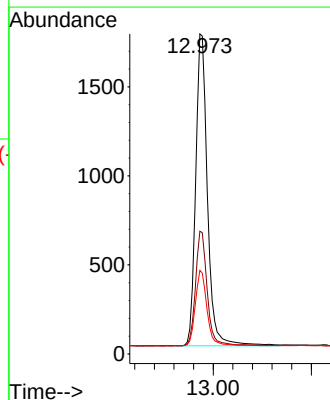
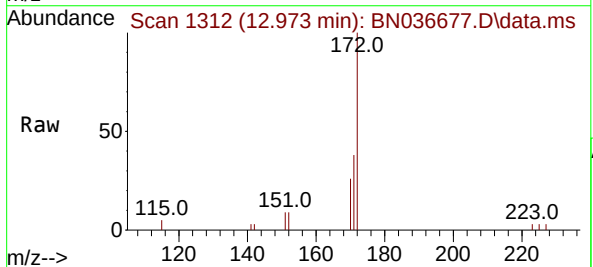
Tgt Ion:172 Resp: 4250

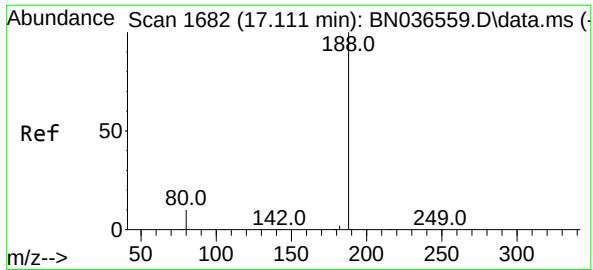
Ion Ratio Lower Upper

172 100

171 38.3 29.5 44.3

170 26.1 20.2 30.4





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. -0.013 min

Lab File: BN036677.D

Acq: 18 Mar 2025 02:28

Instrument :

BNA_N

ClientSampleId :

TT191D2-20250314

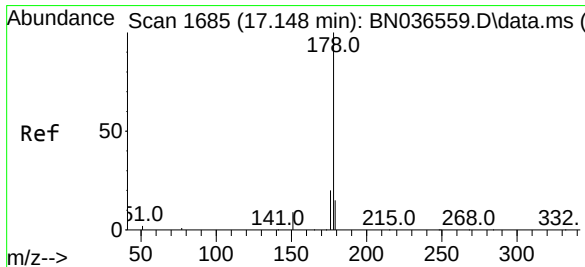
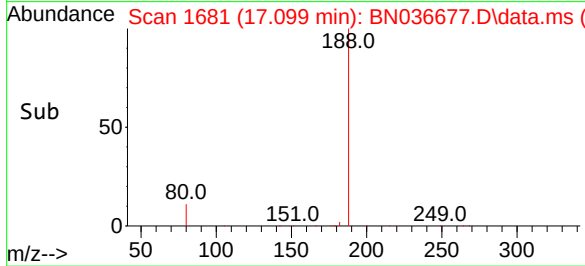
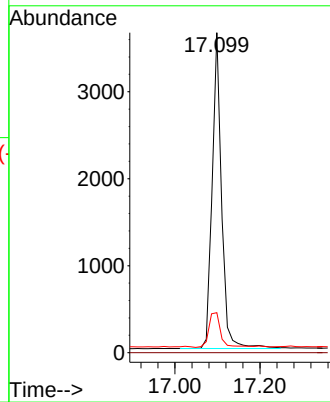
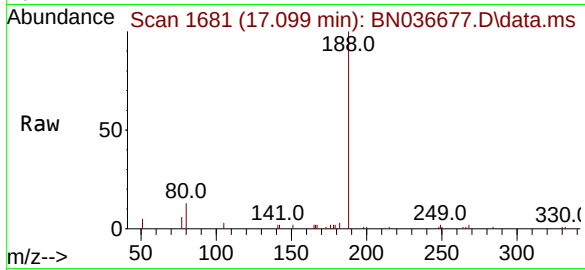
Tgt Ion:188 Resp: 5582

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.5 8.8 13.2



#25

Phenanthrene

Concen: 0.026 ng

RT: 17.136 min Scan# 1684

Delta R.T. -0.013 min

Lab File: BN036677.D

Acq: 18 Mar 2025 02:28

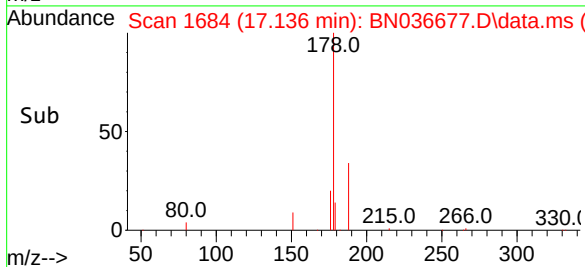
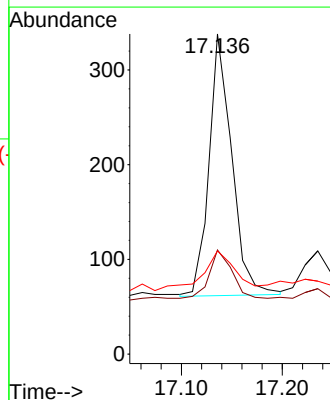
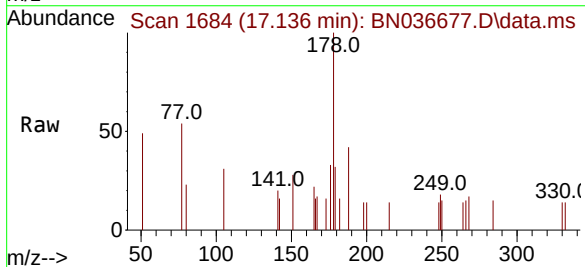
Tgt Ion:178 Resp: 433

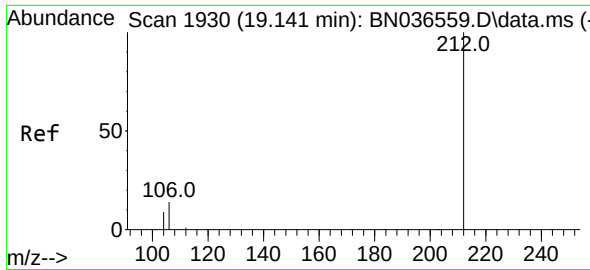
Ion Ratio Lower Upper

178 100

176 21.7 15.9 23.9

179 21.5 12.2 18.4#





#27

Fluoranthene-d10

Concen: 0.398 ng

RT: 19.131 min Scan# 19

Delta R.T. -0.010 min

Lab File: BN036677.D

Acq: 18 Mar 2025 02:28

Instrument :

BNA_N

ClientSampleId :

TT191D2-20250314

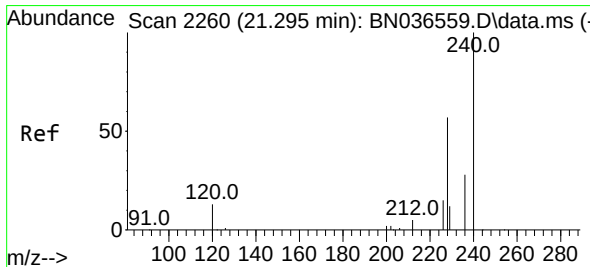
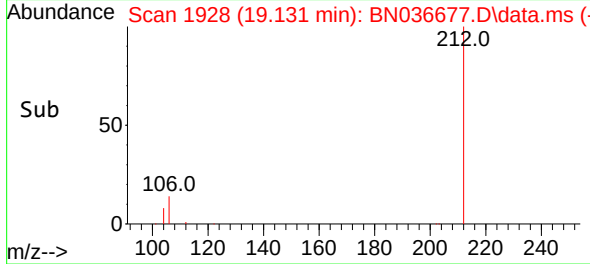
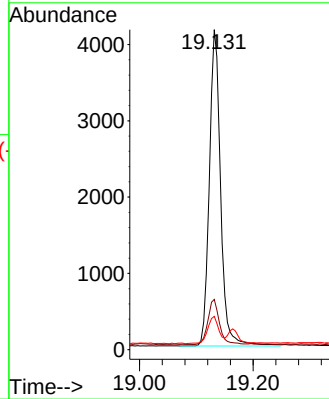
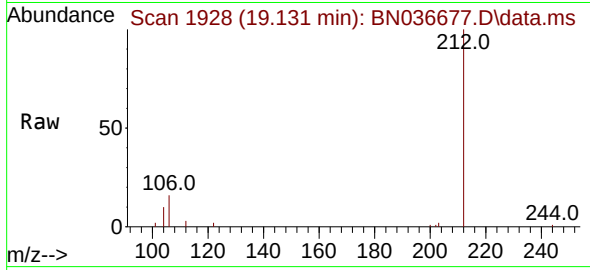
Tgt Ion:212 Resp: 5699

Ion Ratio Lower Upper

212 100

106 14.5 11.8 17.6

104 8.6 7.3 10.9



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.294 min Scan# 2260

Delta R.T. -0.000 min

Lab File: BN036677.D

Acq: 18 Mar 2025 02:28

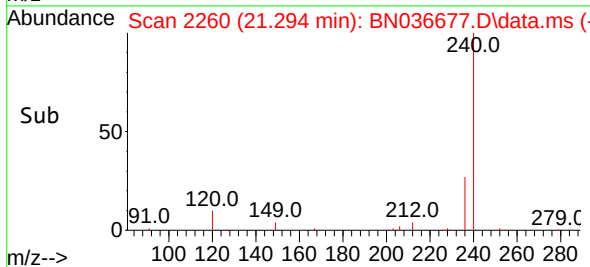
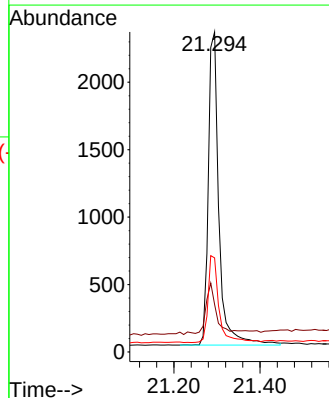
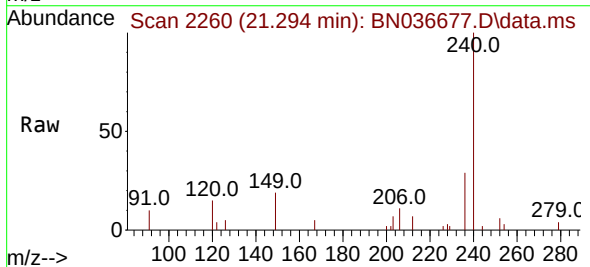
Tgt Ion:240 Resp: 3987

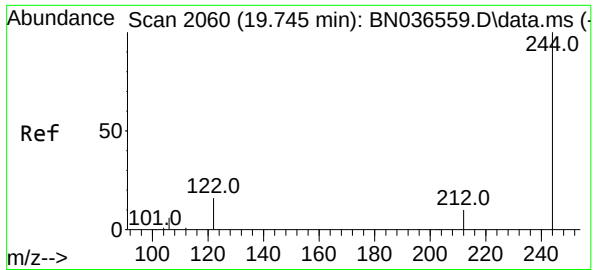
Ion Ratio Lower Upper

240 100

120 14.9 14.6 22.0

236 29.4 24.1 36.1

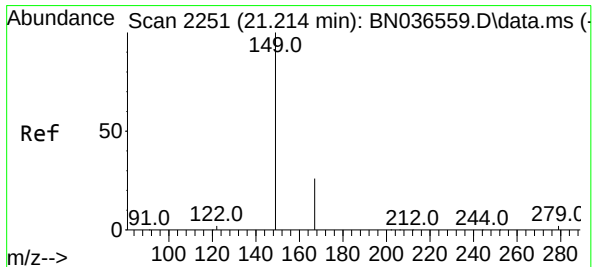
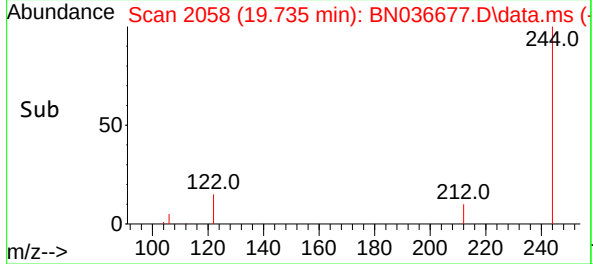
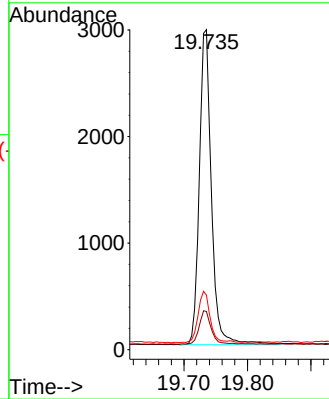
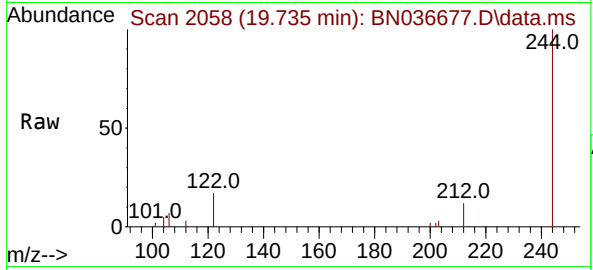




#31
Terphenyl-d14
Concen: 0.410 ng
RT: 19.735 min Scan# 2060
Delta R.T. -0.010 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

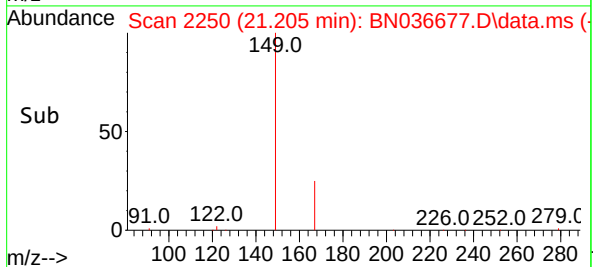
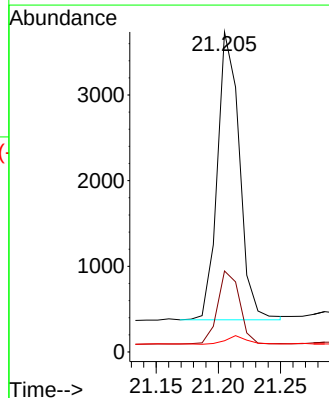
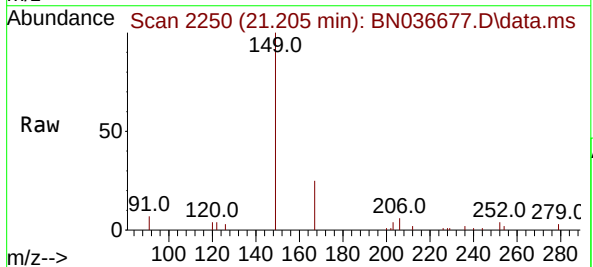
Instrument :
BNA_N
ClientSampleId :
TT191D2-20250314

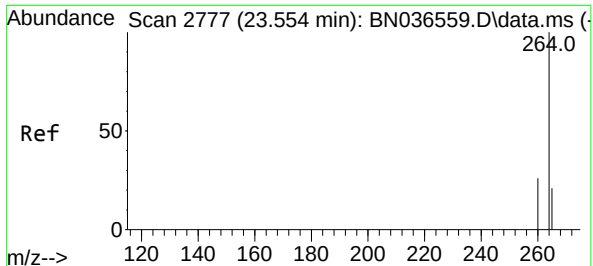
Tgt Ion:244 Resp: 3921
Ion Ratio Lower Upper
244 100
212 12.0 9.6 14.4
122 17.0 13.9 20.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.420 ng
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

Tgt Ion:149 Resp: 4149
Ion Ratio Lower Upper
149 100
167 25.3 20.7 31.1
279 2.9 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.539 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN036677.D

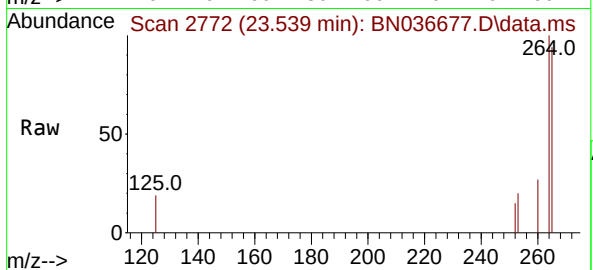
Acq: 18 Mar 2025 02:28

Instrument :

BNA_N

ClientSampleId :

TT191D2-20250314



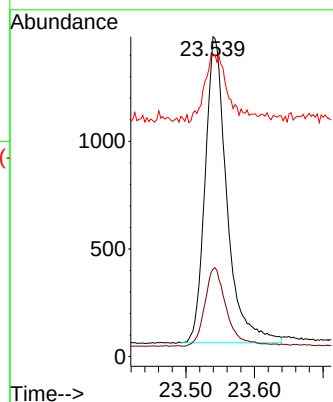
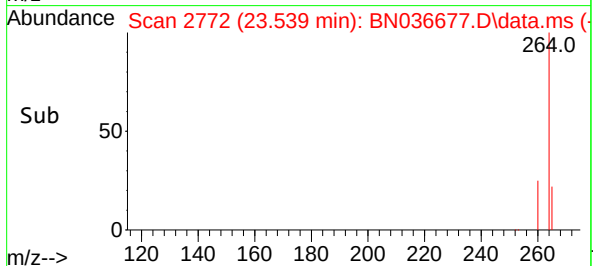
Tgt Ion:264 Resp: 3141

Ion Ratio Lower Upper

264 100

260 27.4 22.6 33.8

265 93.9 88.1 132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/14/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	DUP06-20250314	SDG No.:	Q1582
Lab Sample ID:	Q1582-15	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
BN036678.D	1	03/17/25 08:48	03/18/25 03:04	PB167159

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	0.24		30 - 150		60%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		105%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		53 - 106		68%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		122%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1970	7.717				
1146-65-2	Naphthalene-d8	4650	10.509				
15067-26-2	Acenaphthene-d10	2790	14.356				
1517-22-2	Phenanthrene-d10	5580	17.099				
1719-03-5	Chrysene-d12	3550	21.295				
1520-96-3	Perylene-d12	2800	23.546				

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\BN031725\
 Data File : BN036678.D
 Acq On : 18 Mar 2025 03:04
 Operator : RC/JU
 Sample : Q1582-15
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 DUP06-20250314

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/18/2025
 Supervised By :Jagrut Upadhyay 03/18/2025

Quant Time: Mar 18 04:19:17 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1973	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4653	0.400	ng	0.00
13) Acenaphthene-d10	14.356	164	2790	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	5581	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	3549	0.400	ng	0.00
35) Perylene-d12	23.546	264	2795	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	703	0.153	ng	0.00
5) Phenol-d6	6.894	99	472	0.083	ng	0.00
8) Nitrobenzene-d5	8.875	82	1470	0.290	ng	0.00
11) 2-Methylnaphthalene-d10	12.096	152	1673	0.242	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	449	0.355	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	4407	0.272	ng	0.00
27) Fluoranthene-d10	19.132	212	5992	0.419	ng	0.00
31) Terphenyl-d14	19.736	244	4135	0.486	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.205	149	1549m	0.176	ng	Qvalue

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

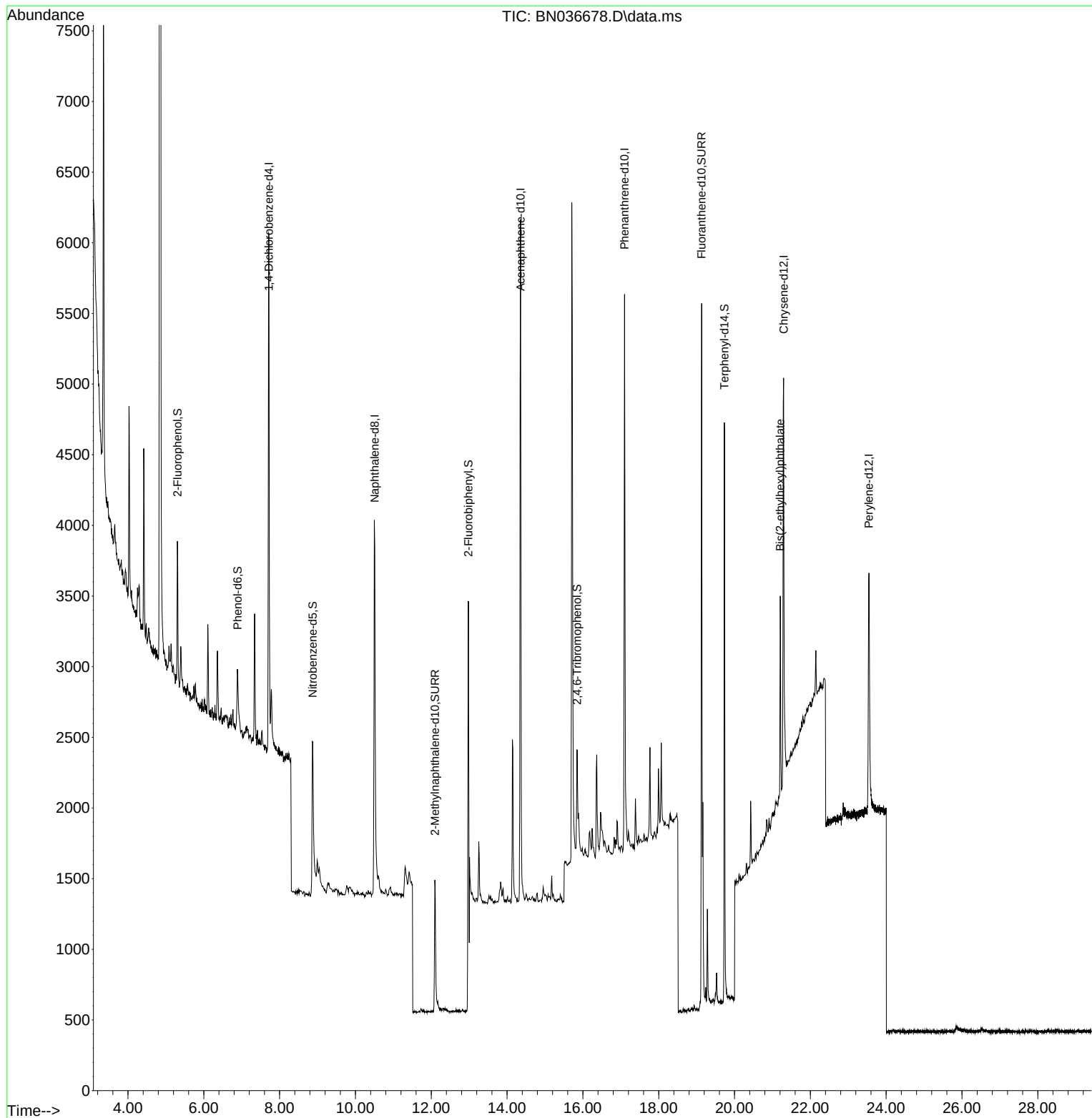
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036678.D
Acq On : 18 Mar 2025 03:04
Operator : RC/JU
Sample : Q1582-15
Misc :
ALS Vial : 28 Sample Multiplier: 1

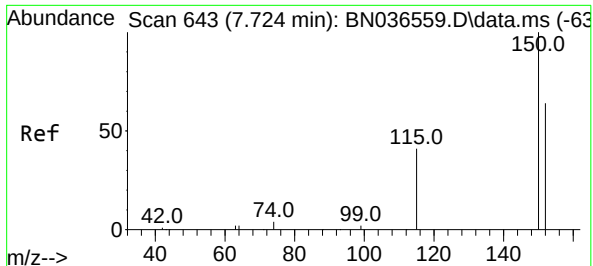
Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

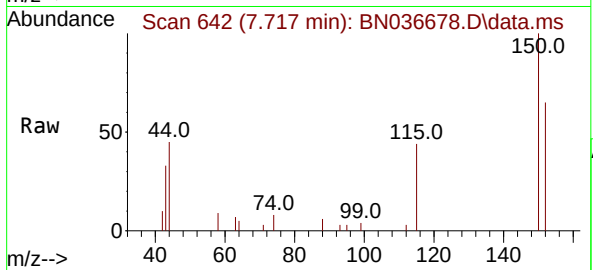
Quant Time: Mar 18 04:19:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 643
Delta R.T. -0.007 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

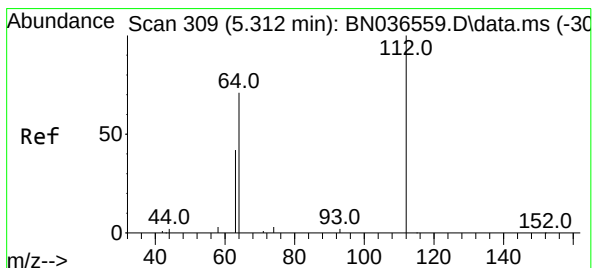
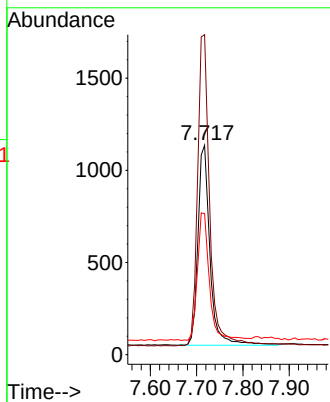
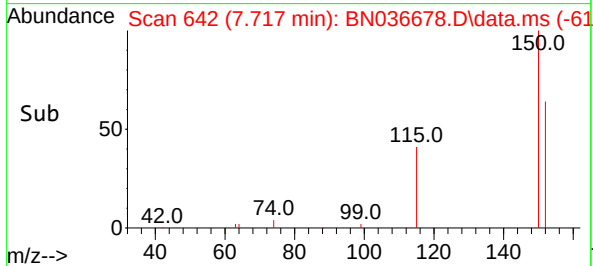
Instrument :
BNA_N
ClientSampleId :
DUP06-20250314



Tgt Ion:152 Resp: 197
Ion Ratio Lower Upper
152 100
150 152.8 123.7 185.5
115 67.4 54.3 81.5

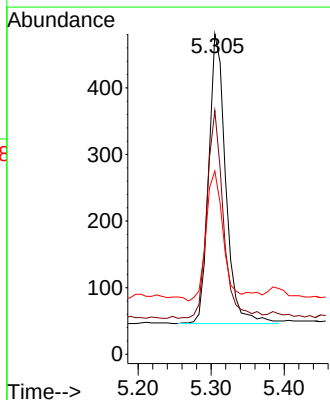
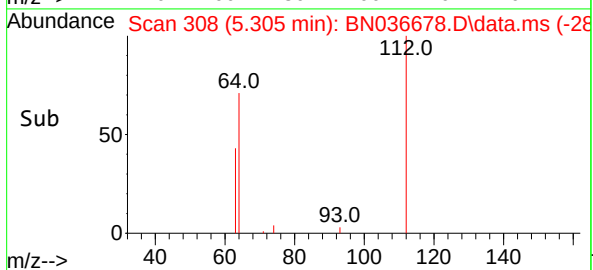
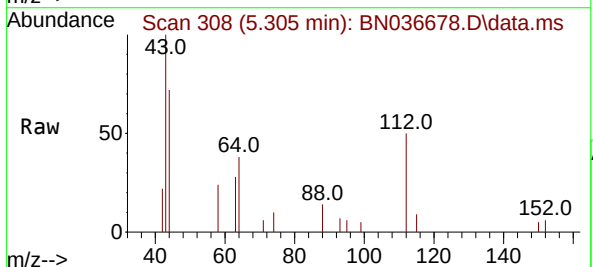
Manual Integrations
APPROVED

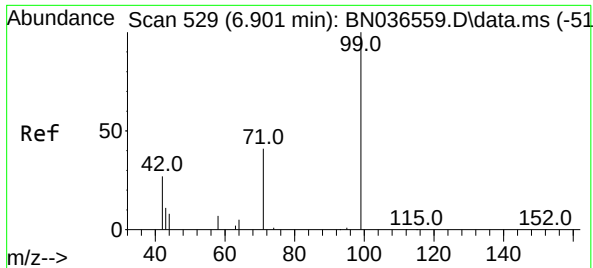
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#4
2-Fluorophenol
Concen: 0.153 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.007 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

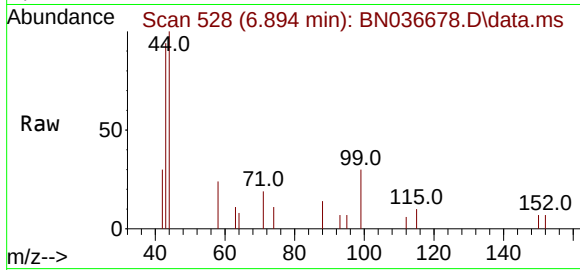
Tgt Ion:112 Resp: 703
Ion Ratio Lower Upper
112 100
64 69.3 53.1 79.7
63 44.7 31.8 47.8





#5
Phenol-d6
Concen: 0.083 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

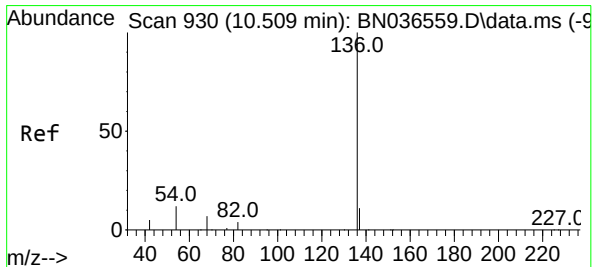
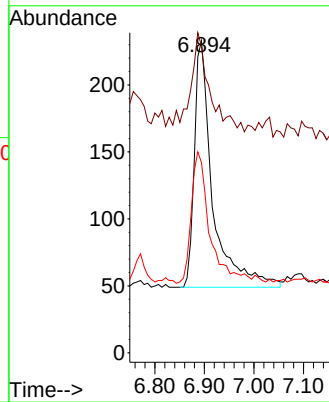
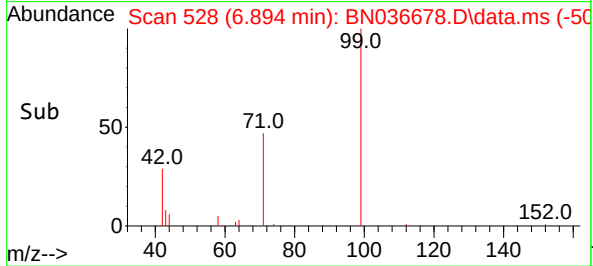
Instrument :
BNA_N
ClientSampleId :
DUP06-20250314



Tgt Ion: 99 Resp: 472
Ion Ratio Lower Upper
99 100
42 41.9 26.5 39.7
71 53.6 34.1 51.1

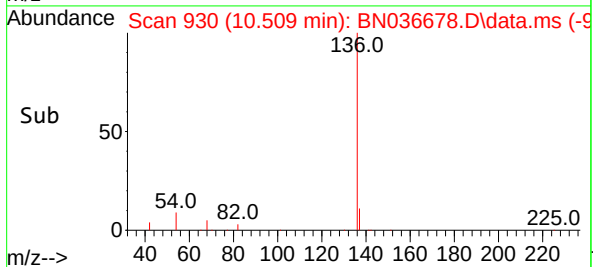
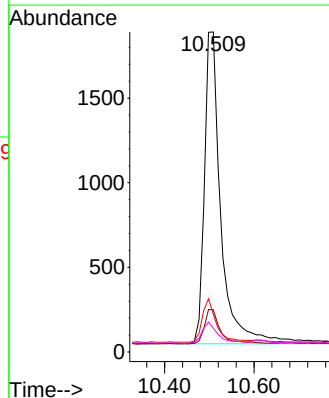
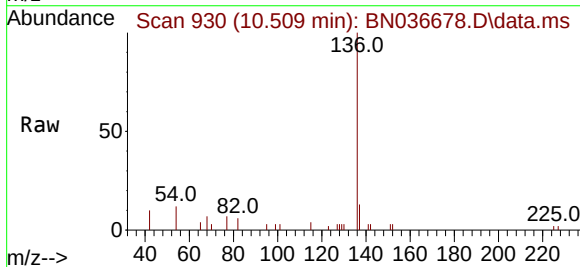
Manual Integrations
APPROVED

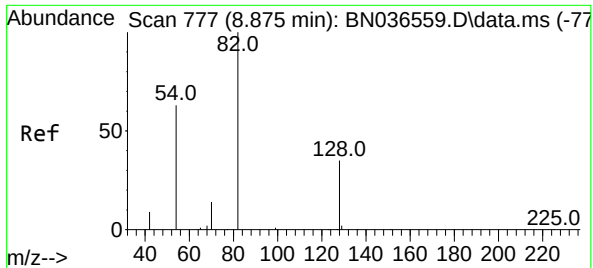
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

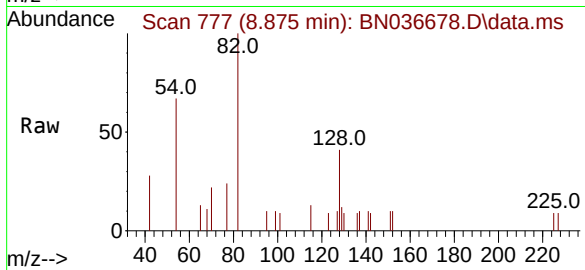
Tgt Ion:136 Resp: 4653
Ion Ratio Lower Upper
136 100
137 13.2 10.3 15.5
54 11.7 11.5 17.3
68 7.5 7.0 10.4





#8
Nitrobenzene-d5
Concen: 0.290 ng
RT: 8.875 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

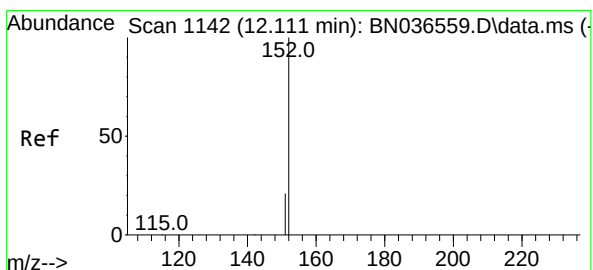
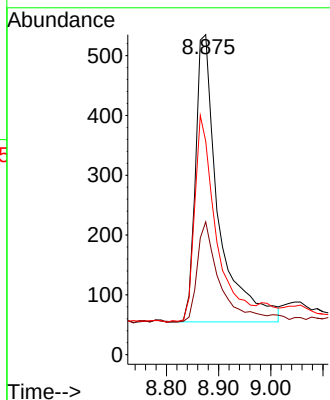
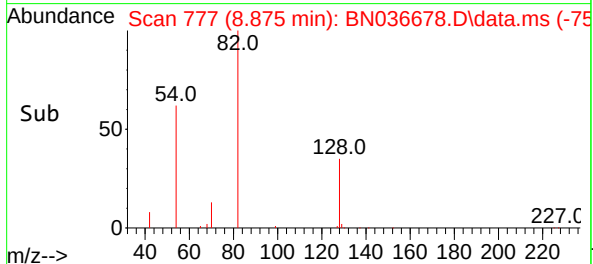
Instrument :
BNA_N
ClientSampleId :
DUP06-20250314



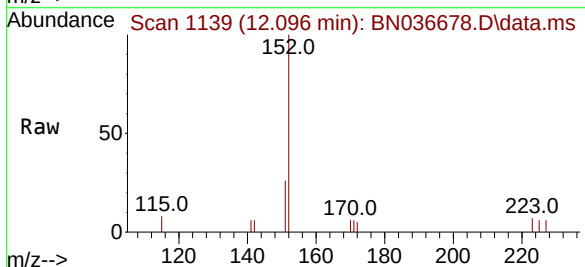
Tgt Ion: 82 Resp: 1470
Ion Ratio Lower Upper
82 100
128 41.5 30.6 45.8
54 66.7 52.2 78.4

Manual Integrations
APPROVED

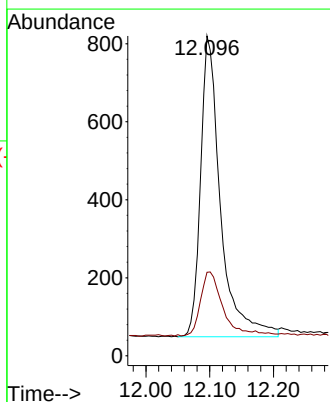
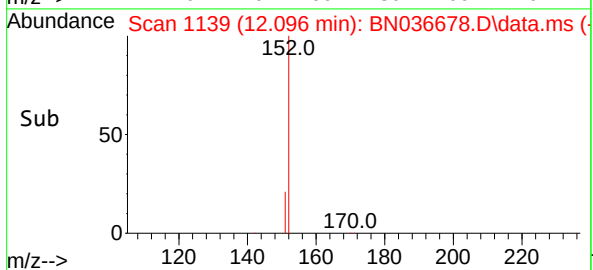
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

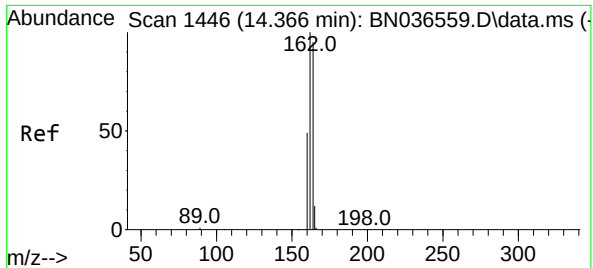


#11
2-Methylnaphthalene-d10
Concen: 0.242 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04



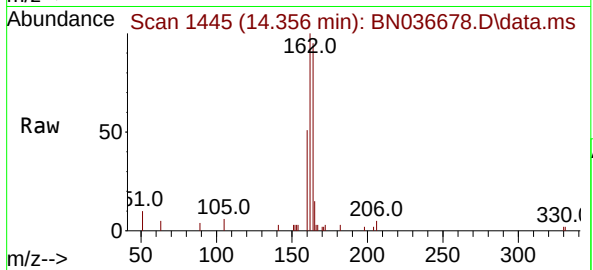
Tgt Ion:152 Resp: 1673
Ion Ratio Lower Upper
152 100
151 24.1 17.0 25.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

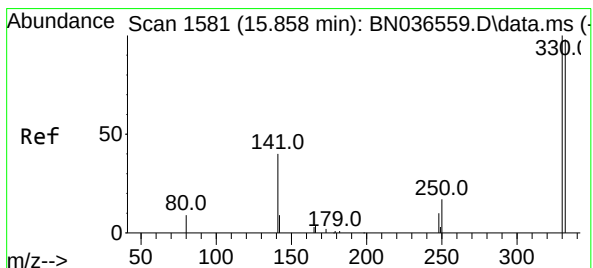
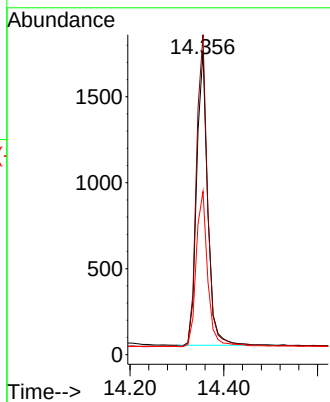
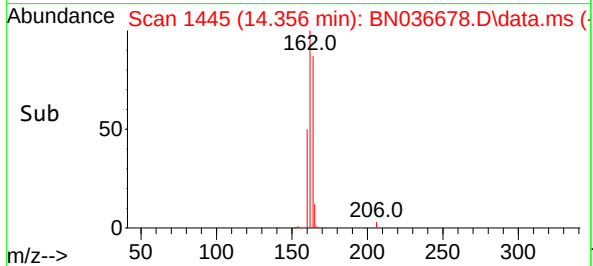
Instrument :
BNA_N
ClientSampleId :
DUP06-20250314



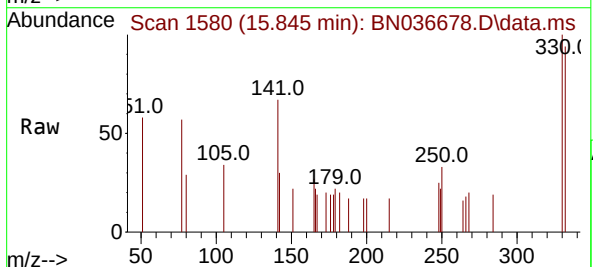
Tgt Ion:164 Resp: 2790
Ion Ratio Lower Upper
164 100
162 105.7 84.2 126.2
160 53.9 42.2 63.2

Manual Integrations
APPROVED

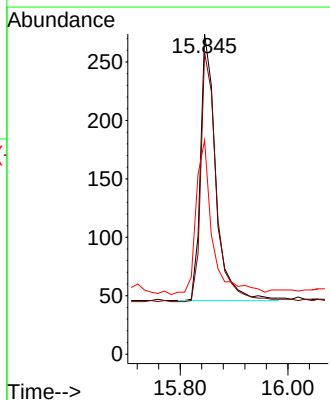
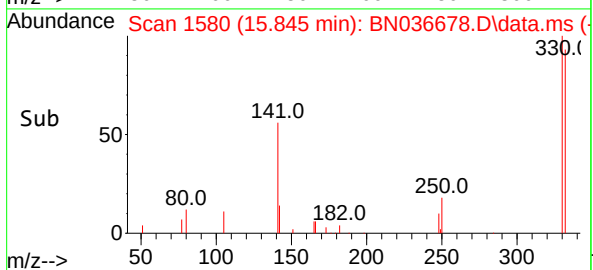
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

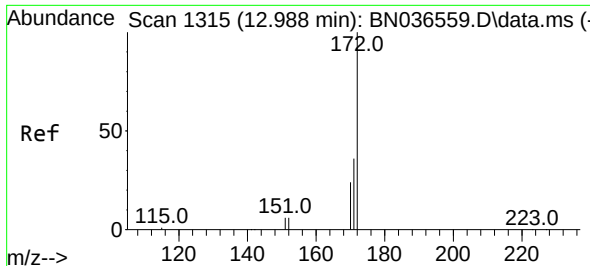


#14
2,4,6-Tribromophenol
Concen: 0.355 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04



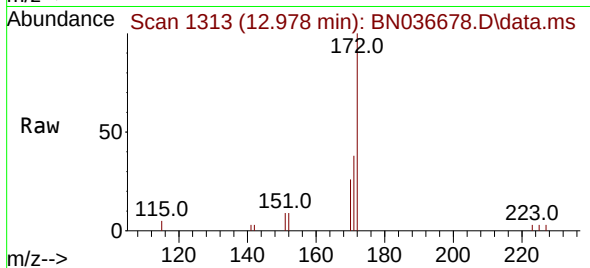
Tgt Ion:330 Resp: 449
Ion Ratio Lower Upper
330 100
332 95.3 75.2 112.8
141 62.6 43.4 65.2





#15
2-Fluorobiphenyl
Concen: 0.272 ng
RT: 12.978 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

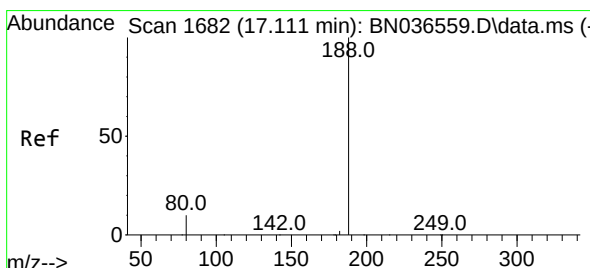
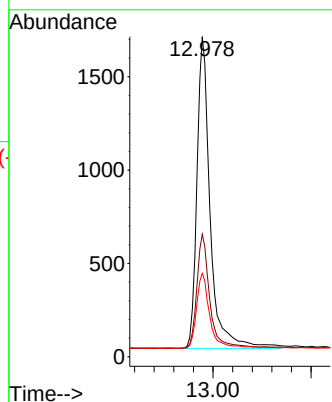
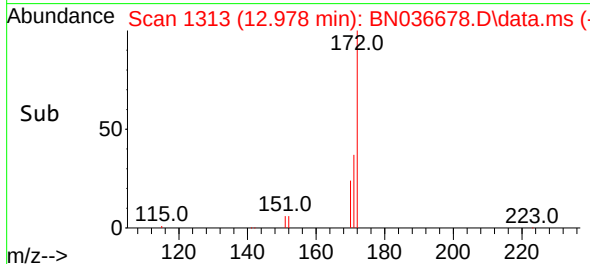
Instrument :
BNA_N
ClientSampleId :
DUP06-20250314



Tgt Ion:172 Resp: 440
Ion Ratio Lower Upper
172 100
171 38.3 29.5 44.3
170 26.0 20.2 30.4

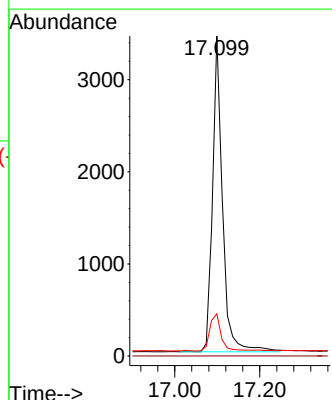
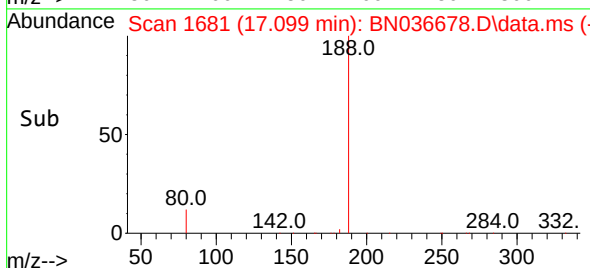
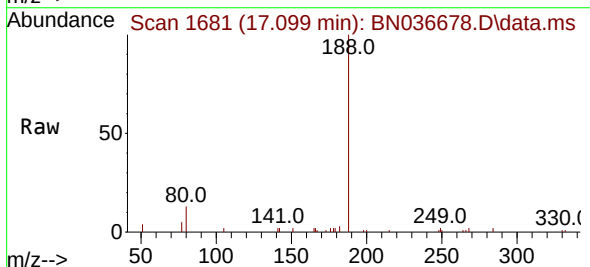
Manual Integrations
APPROVED

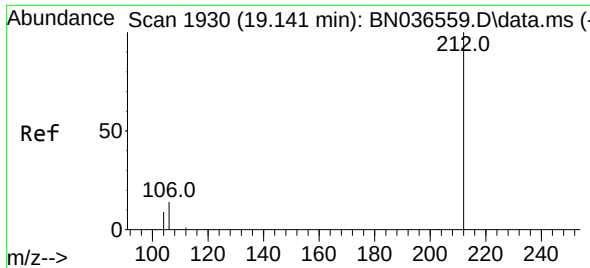
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

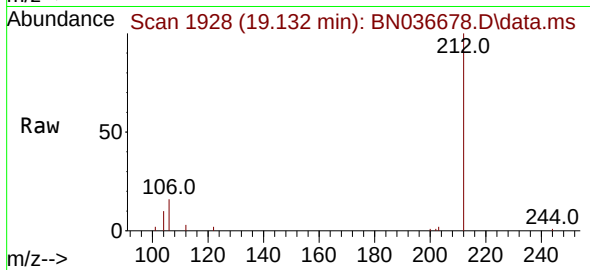
Tgt Ion:188 Resp: 5581
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.2 8.8 13.2#





#27
Fluoranthene-d10
Concen: 0.419 ng
RT: 19.132 min Scan# 1930
Delta R.T. -0.009 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

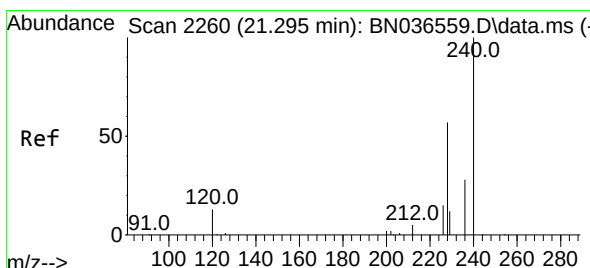
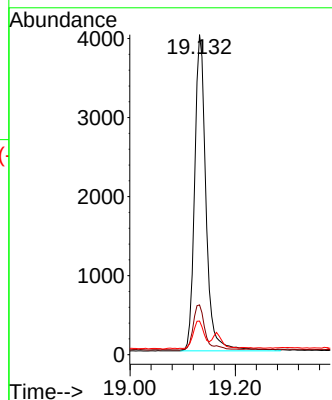
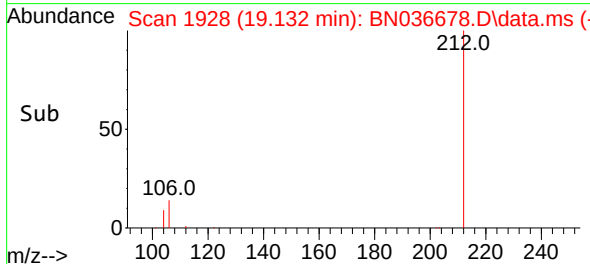
Instrument :
BNA_N
ClientSampleId :
DUP06-20250314



Tgt Ion:212 Resp: 599
Ion Ratio Lower Upper
212 100
106 15.2 11.8 17.6
104 8.6 7.3 10.9

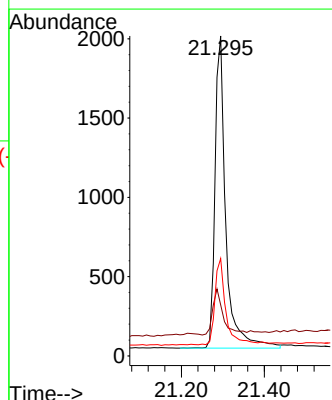
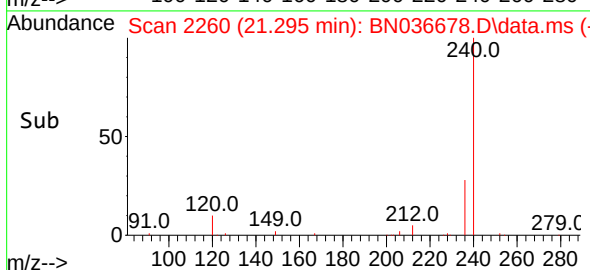
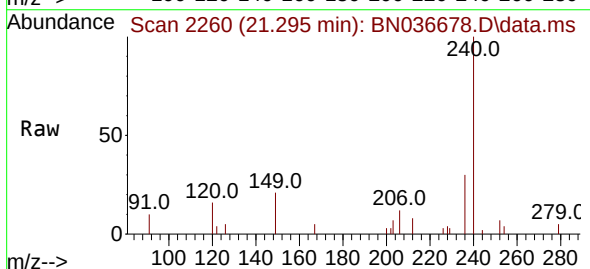
Manual Integrations
APPROVED

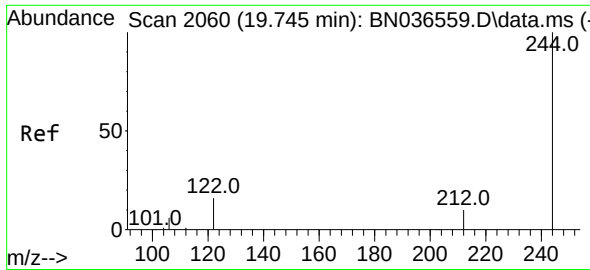
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

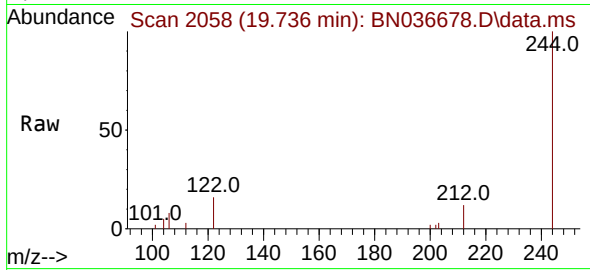
Tgt Ion:240 Resp: 3549
Ion Ratio Lower Upper
240 100
120 16.0 14.6 22.0
236 30.4 24.1 36.1





#31
Terphenyl-d14
Concen: 0.486 ng
RT: 19.736 min Scan# 2060
Delta R.T. -0.009 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

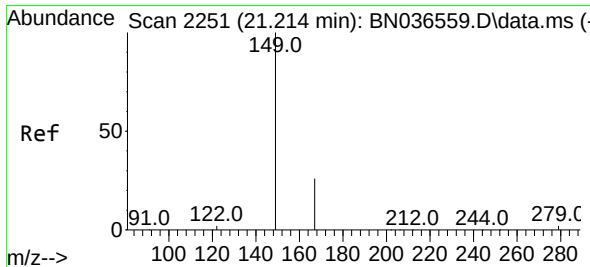
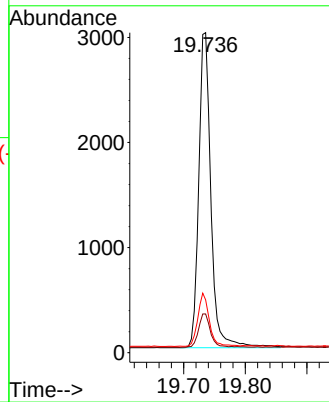
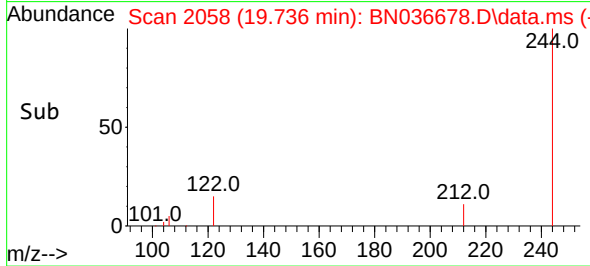
Instrument :
BNA_N
ClientSampleId :
DUP06-20250314



Tgt Ion:244 Resp: 4135
Ion Ratio Lower Upper
244 100
212 12.1 9.6 14.4
122 16.5 13.9 20.9

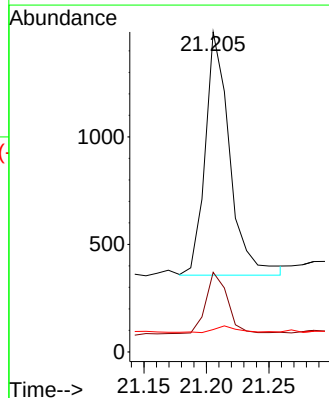
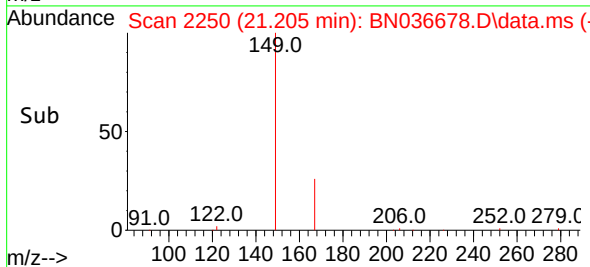
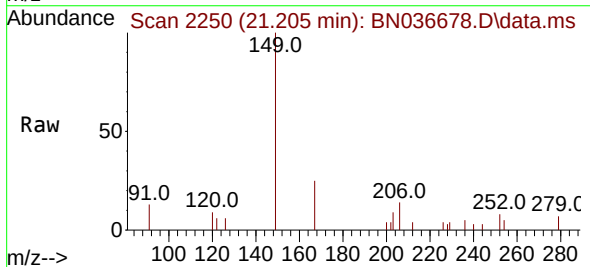
Manual Integrations
APPROVED

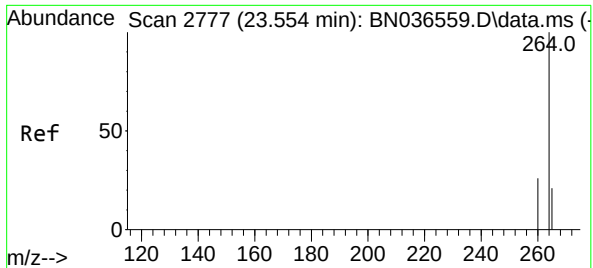
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.176 ng m
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion:149 Resp: 1549
Ion Ratio Lower Upper
149 100
167 22.6 20.7 31.1
279 2.3 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.546 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036678.D

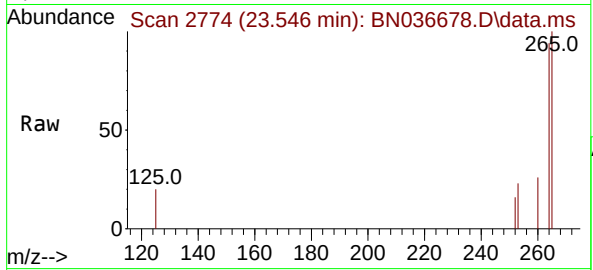
Acq: 18 Mar 2025 03:04

Instrument :

BNA_N

ClientSampleId :

DUP06-20250314



Tgt Ion:264 Resp: 279

Ion Ratio Lower Upper

264 100

260 27.6 22.6 33.8

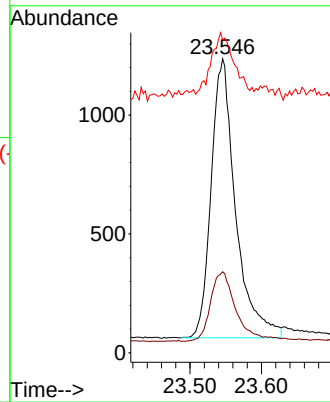
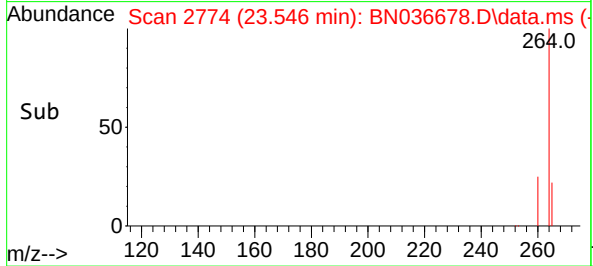
265 106.5 88.1 132.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/18/2025

Supervised By :Jagrut Upadhyay 03/18/2025





CALIBRATION SUMMARY

- 1
- 2
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- 17
- 18

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025
Response Via : Initial Calibration

Calibration Files

0.1 =BN036557.D 0.2 =BN036558.D 0.4 =BN036559.D 0.8 =BN036560.D 1.6 =BN036561.D 3.2 =BN036562.D 5.0 =BN036563.D

	Compound	0.1	0.2	0.4	0.8	1.6	3.2	5.0	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.434	0.439	0.498	0.451	0.440	0.445	0.399	0.444	6.60
3)	n-Nitrosodimet...	1.112	0.874	0.935	0.841	0.850	0.883	0.789	0.898	11.64
4) S	2-Fluorophenol	0.931	0.908	0.987	0.878	0.914	0.996	0.911	0.932	4.67
5) S	Phenol-d6	1.243	1.057	1.128	1.067	1.133	1.254	1.180	1.152	6.79
6)	bis(2-Chloroet...	1.426	1.150	1.183	1.129	1.132	1.210	1.104	1.190	9.22
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.572	0.396	0.415	0.401	0.402	0.450	0.411	0.435	14.47
9)	Naphthalene	1.371	1.125	1.206	1.111	1.108	1.222	1.094	1.177	8.45
10)	Hexachlorobuta...	0.296	0.283	0.294	0.267	0.261	0.286	0.251	0.277	6.24
11) SURR2	Methylnaphth...	0.656	0.549	0.606	0.562	0.577	0.633	0.581	0.595	6.55
12)	2-Methylnaphth...	0.810	0.696	0.765	0.703	0.734	0.802	0.731	0.749	6.03
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.181	0.160	0.187	0.169	0.188	0.197	0.188	0.182	7.04
15) S	2-Fluorobiphenyl	2.208	1.982	2.398	2.350	2.364	2.566	2.419	2.327	7.96
16)	Acenaphthylene	1.882	1.756	1.938	1.794	1.834	2.074	1.935	1.888	5.66
17)	Acenaphthene	1.257	1.159	1.281	1.171	1.199	1.339	1.243	1.236	5.17
18)	Fluorene	1.629	1.600	1.764	1.609	1.670	1.778	1.650	1.672	4.32
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.057	0.077	0.075	0.088	0.110	0.111	0.086		24.66
21)	4-Bromophenyl-...	0.243	0.227	0.274	0.238	0.241	0.278	0.253	0.251	7.53
22)	Hexachlorobenzene	0.306	0.288	0.336	0.295	0.283	0.322	0.289	0.303	6.58
23)	Atrazine	0.193	0.191	0.213	0.192	0.200	0.216	0.200	0.201	5.08
24)	Pentachlorophenol	0.140	0.116	0.137	0.122	0.135	0.161	0.155	0.138	11.76
25)	Phenanthrene	1.190	1.111	1.297	1.141	1.165	1.300	1.195	1.200	6.09
26)	Anthracene	1.026	0.971	1.147	1.033	1.075	1.215	1.112	1.083	7.60
27) SURR	Fluoranthene-d10	1.037	0.955	1.116	0.956	1.025	1.087	1.000	1.025	5.98
28)	Fluoranthene	1.341	1.243	1.452	1.272	1.364	1.447	1.316	1.348	5.95
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.945	2.005	2.131	1.910	1.870	1.992	1.837	1.956	5.04
31) S	Terphenyl-d14	0.962	0.965	1.028	0.924	0.915	0.987	0.926	0.958	4.23
32)	Benzo(a)anthra...	1.389	1.315	1.437	1.304	1.347	1.528	1.415	1.391	5.63
33)	Chrysene	1.486	1.509	1.610	1.507	1.462	1.616	1.448	1.520	4.44
34)	Bis(2-ethylhex...	1.196	1.100	1.044	0.865	0.946	0.912	0.870	0.990	12.74
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN031025.M

36)	Indeno(1,2,3-c...	1.160	1.316	1.546	1.404	1.417	1.693	1.571	1.444	12.27
37)	Benzo(b)fluora...	1.311	1.360	1.547	1.402	1.477	1.595	1.498	1.456	7.04
38)	Benzo(k)fluora...	1.504	1.397	1.620	1.481	1.521	1.635	1.534	1.527	5.34
39) C	Benzo(a)pyrene	1.090	1.152	1.303	1.195	1.223	1.350	1.268	1.226	7.29
40)	Dibenzo(a,h)an...	0.893	0.981	1.163	1.126	1.102	1.351	1.252	1.124	13.76
41)	Benzo(g,h,i)pe...	1.138	1.213	1.382	1.250	1.233	1.449	1.334	1.286	8.36

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036557.D
 Acq On : 10 Mar 2025 11:42
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 03/11/2025
 Supervised By :Jagrut Upadhyay 03/11/2025

Quant Time: Mar 10 16:00:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2755	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	6575	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3958	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	8269	0.400	ng	0.00
29) Chrysene-d12	21.295	240	5886	0.400	ng	0.00
35) Perylene-d12	23.554	264	5207	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	641	0.100	ng	0.00
5) Phenol-d6	6.901	99	856	0.108	ng	0.00
8) Nitrobenzene-d5	8.875	82	940	0.131	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	1079	0.110	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	179	0.100	ng	0.00
15) 2-Fluorobiphenyl	12.993	172	2185	0.095	ng	0.00
27) Fluoranthene-d10	19.141	212	2144	0.101	ng	0.00
31) Terphenyl-d14	19.745	244	1416	0.100	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.247	88	299m	0.098	ng	
3) n-Nitrosodimethylamine	3.557	42	766	0.124	ng	# 95
6) bis(2-Chloroethyl)ether	7.154	93	982	0.120	ng	98
9) Naphthalene	10.562	128	2254	0.117	ng	# 94
10) Hexachlorobutadiene	10.850	225	486	0.107	ng	# 100
12) 2-Methylnaphthalene	12.187	142	1331	0.108	ng	96
16) Acenaphthylene	14.078	152	1862	0.100	ng	99
17) Acenaphthene	14.430	154	1244	0.102	ng	99
18) Fluorene	15.414	166	1612	0.097	ng	99
21) 4-Bromophenyl-phenylether	16.304	248	502	0.097	ng	95
22) Hexachlorobenzene	16.416	284	632	0.101	ng	98
23) Atrazine	16.578	200	400	0.096	ng	# 90
24) Pentachlorophenol	16.776	266	290	0.102	ng	98
25) Phenanthrene	17.148	178	2459	0.099	ng	99
26) Anthracene	17.248	178	2121	0.095	ng	100
28) Fluoranthene	19.174	202	2772	0.099	ng	97
30) Pyrene	19.536	202	2862	0.099	ng	100
32) Benzo(a)anthracene	21.286	228	2044	0.100	ng	94
33) Chrysene	21.331	228	2187	0.098	ng	93
34) Bis(2-ethylhexyl)phtha...	21.214	149	1760	0.121	ng	96
36) Indeno(1,2,3-cd)pyrene	25.841	276	1510	0.080	ng	98
37) Benzo(b)fluoranthene	22.876	252	1707	0.090	ng	# 62
38) Benzo(k)fluoranthene	22.923	252	1958	0.098	ng	# 62
39) Benzo(a)pyrene	23.458	252	1419	0.089	ng	# 51
40) Dibenzo(a,h)anthracene	25.861	278	1163	0.079	ng	# 59
41) Benzo(g,h,i)perylene	26.539	276	1482	0.089	ng	# 84

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036557.D
Acq On : 10 Mar 2025 11:42
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

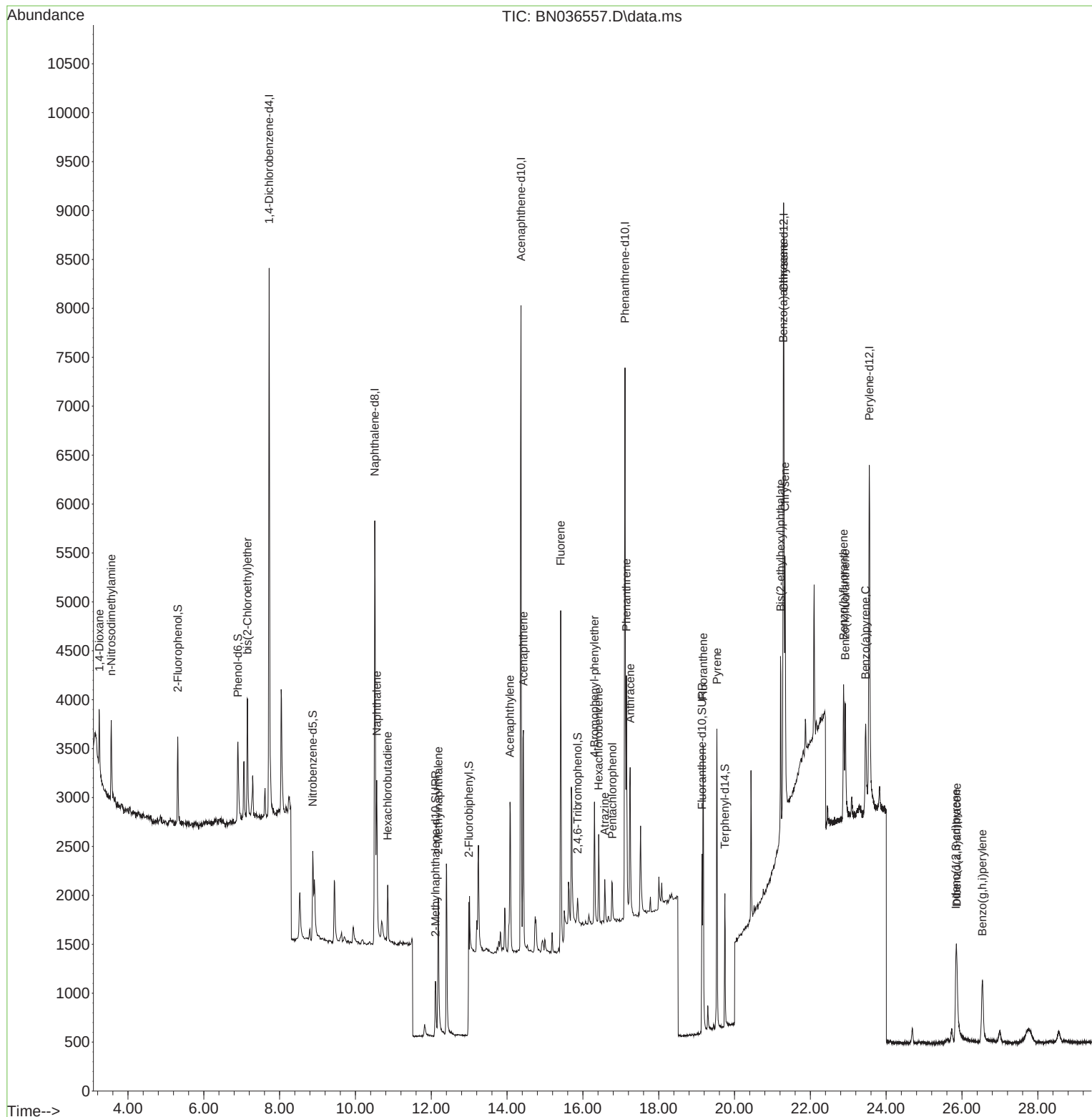
Manual Integrations

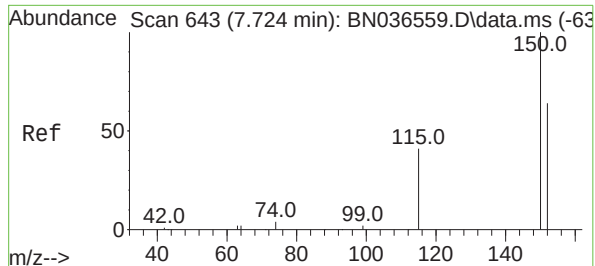
APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025

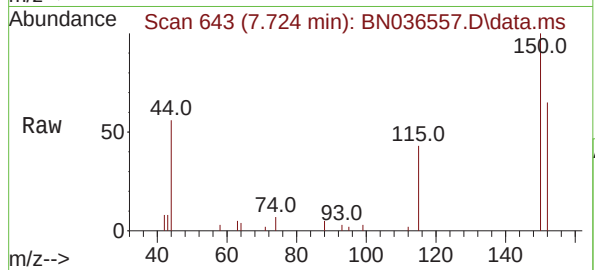
Quant Time: Mar 10 16:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

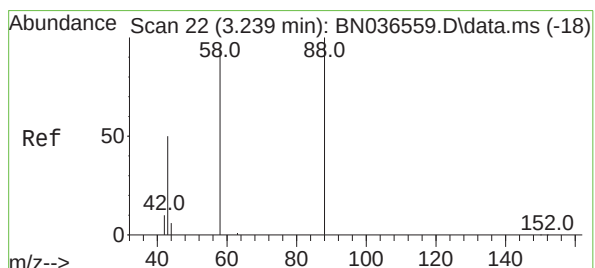
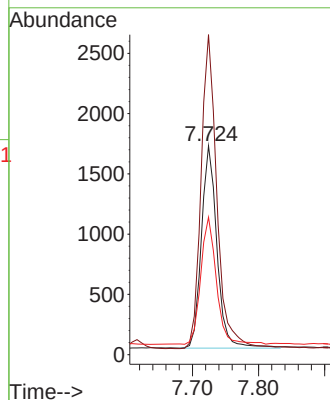
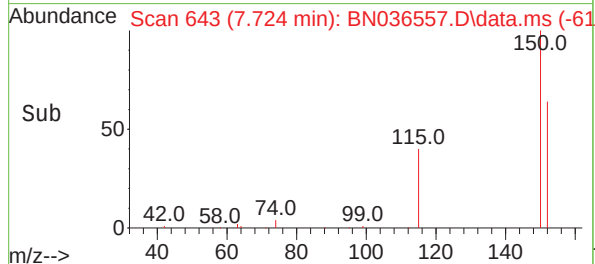
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 152 Resp: 275
Ion Ratio Lower Upper
152 100
150 153.3 123.7 185.5
115 65.8 54.3 81.5

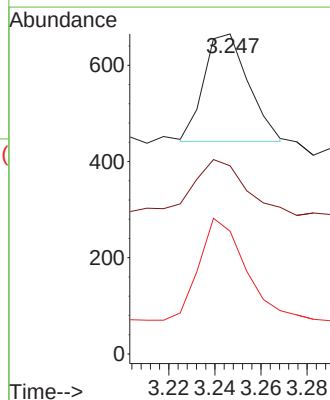
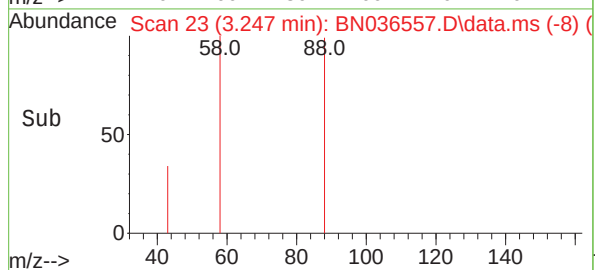
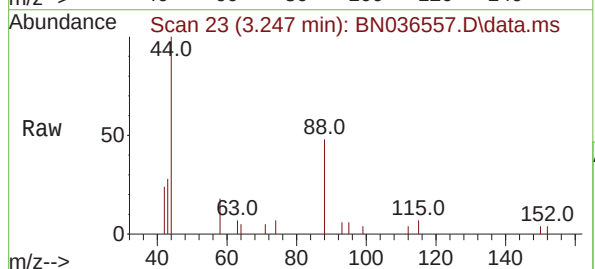
Manual Integrations
APPROVED

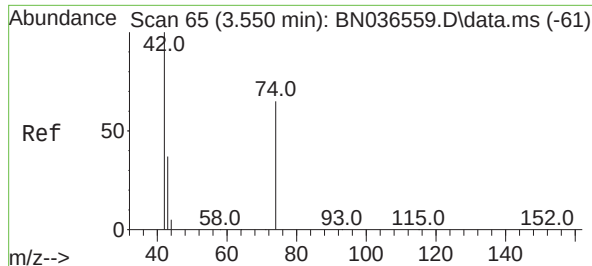
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#2
1,4-Dioxane
Concen: 0.098 ng m
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 88 Resp: 299
Ion Ratio Lower Upper
88 100
43 94.6 37.8 56.8#
58 102.3 67.4 101.2#





#3

n-Nitrosodimethylamine

Concen: 0.124 ng

RT: 3.557 min Scan# 61

Delta R.T. 0.007 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

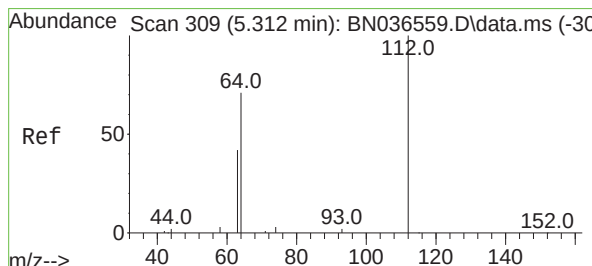
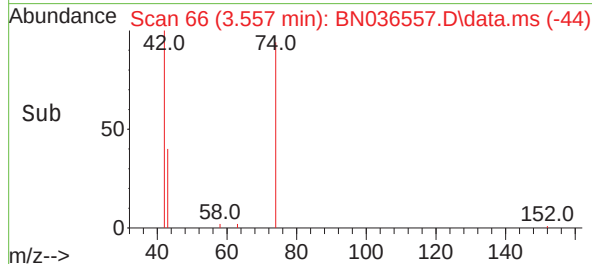
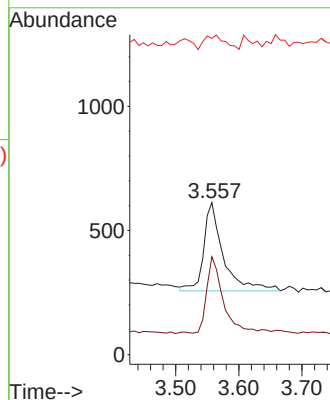
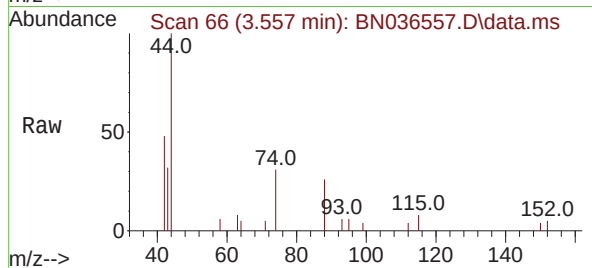
Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Tgt Ion:	42	Resp:	76
Ion Ratio	Lower	Upper	
42	100		
74	73.0	60.6	90.8
44	16.6	6.3	9.5

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

#4

2-Fluorophenol

Concen: 0.100 ng

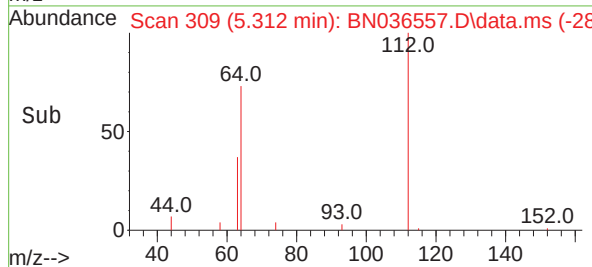
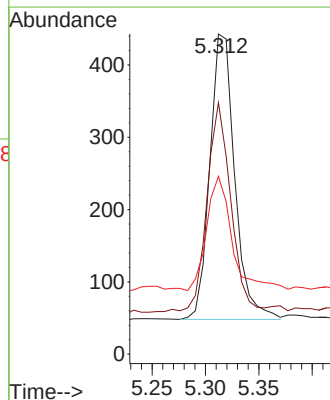
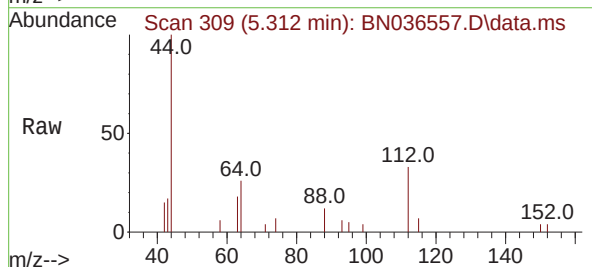
RT: 5.312 min Scan# 309

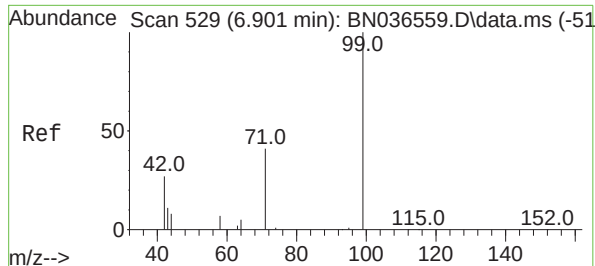
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

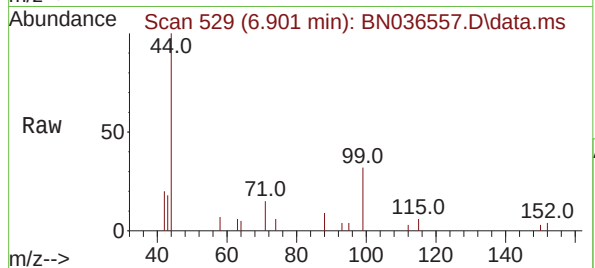
Tgt Ion:	112	Resp:	641
Ion Ratio	Lower	Upper	
112	100		
64	70.4	53.1	79.7
63	40.9	31.8	47.8





#5
Phenol-d6
Concen: 0.108 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

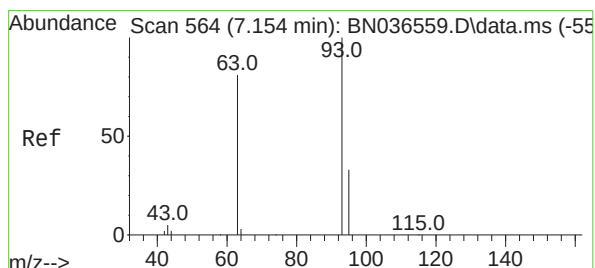
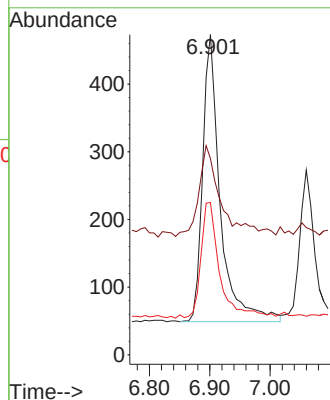
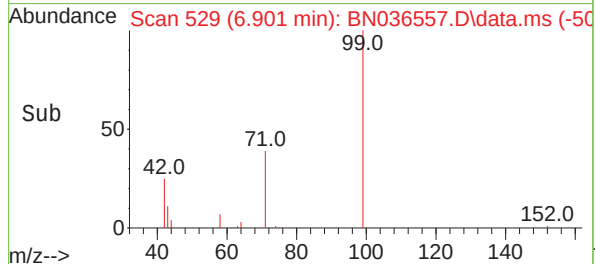
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 99 Resp: 850
Ion Ratio Lower Upper
99 100
42 39.8 26.5 39.7
71 42.8 34.1 51.1

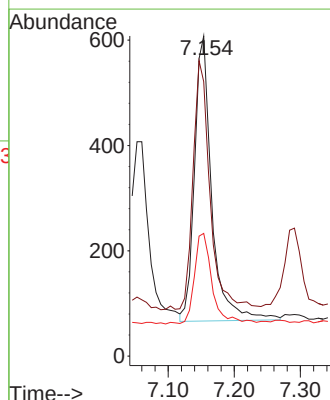
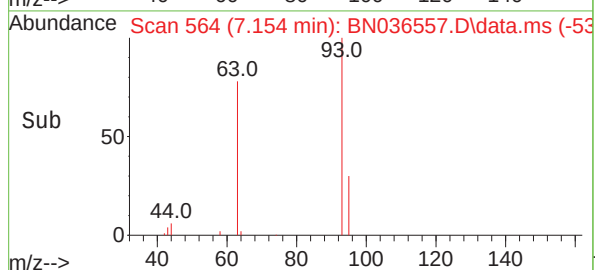
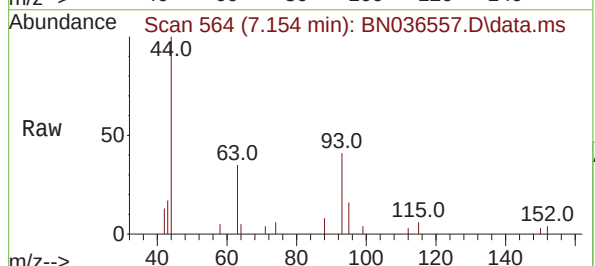
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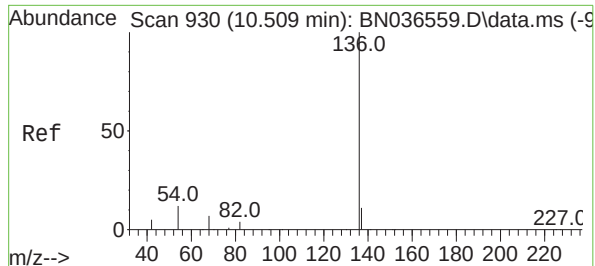
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.120 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

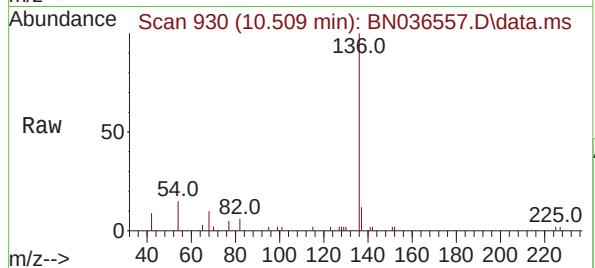
Tgt Ion: 93 Resp: 982
Ion Ratio Lower Upper
93 100
63 86.7 67.7 101.5
95 33.0 25.6 38.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

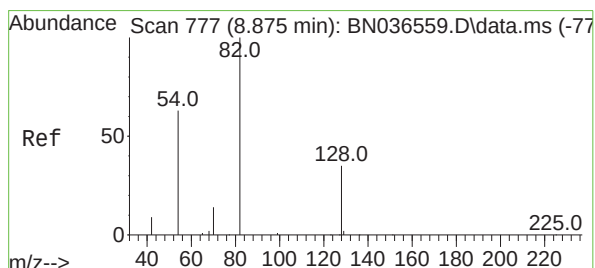
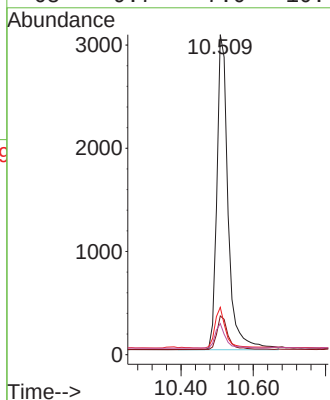
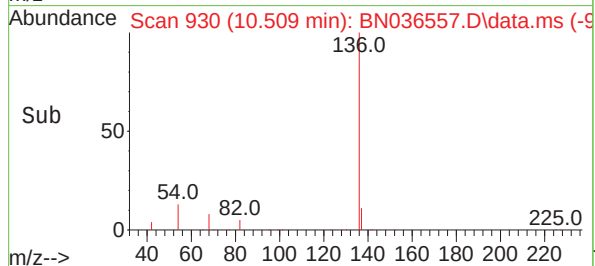
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 136 Resp: 6574
Ion Ratio Lower Upper
136 100
137 12.1 10.3 15.5
54 14.8 11.5 17.3
68 9.7 7.0 10.4

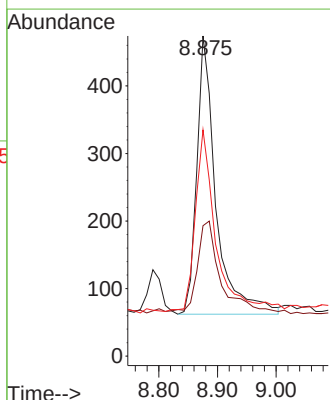
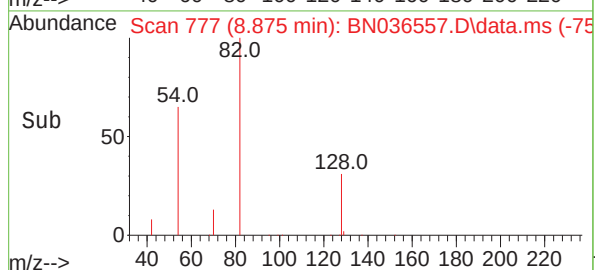
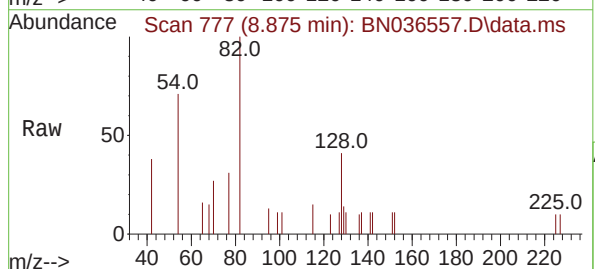
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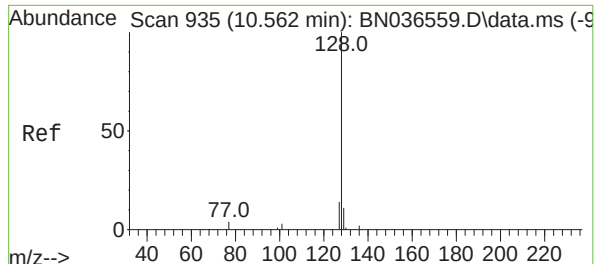
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#8
Nitrobenzene-d5
Concen: 0.131 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 82 Resp: 940
Ion Ratio Lower Upper
82 100
128 40.7 30.6 45.8
54 70.7 52.2 78.4





#9

Naphthalene

Concen: 0.117 ng

RT: 10.562 min Scan# 935

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

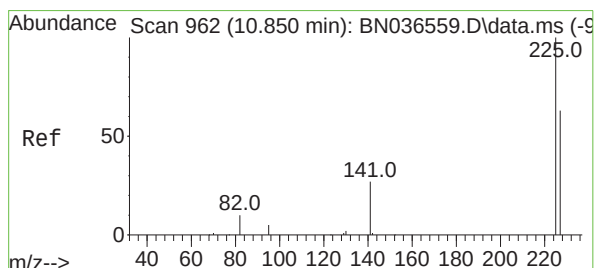
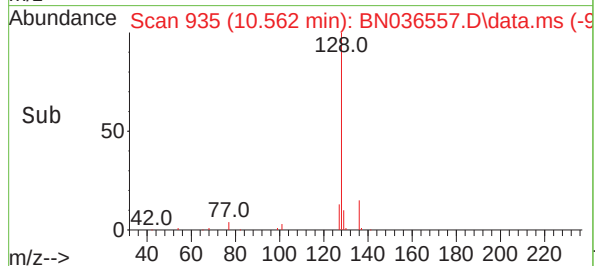
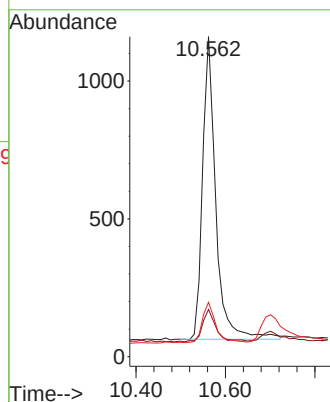
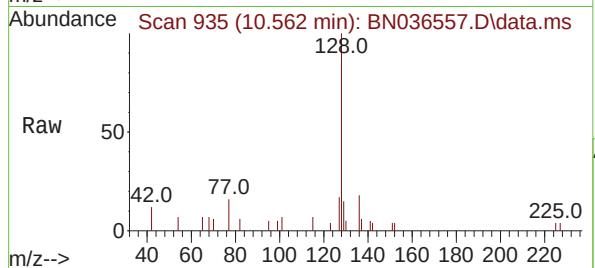
ClientSampleId :

SSTDICC0.1

Tgt Ion:	128	Resp:	225
Ion Ratio	Lower	Upper	
128	100		
129	14.7	9.8	14.6
127	17.0	11.8	17.8

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Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#10

Hexachlorobutadiene

Concen: 0.107 ng

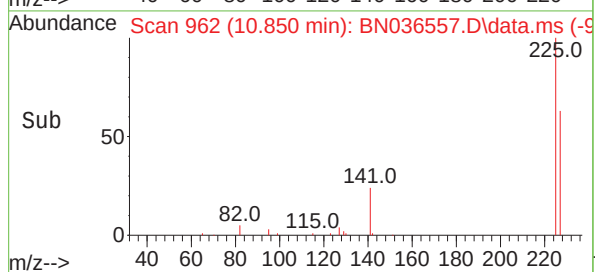
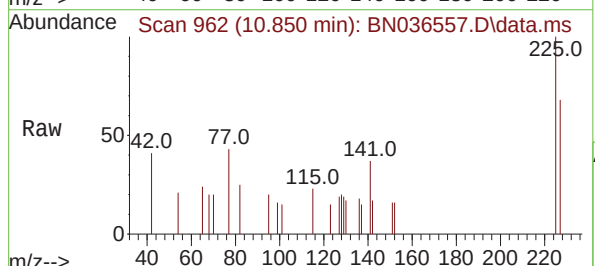
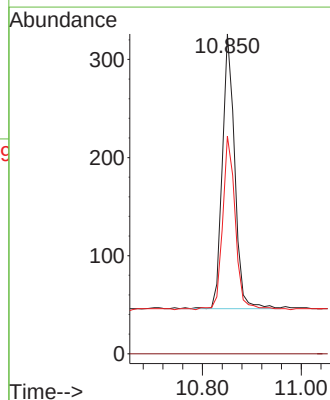
RT: 10.850 min Scan# 962

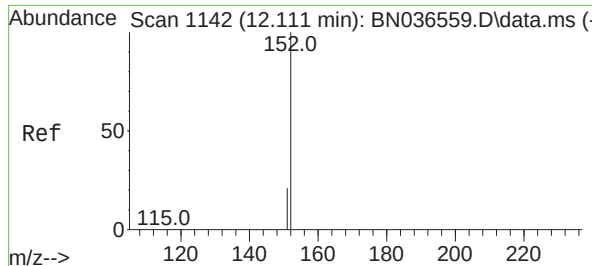
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

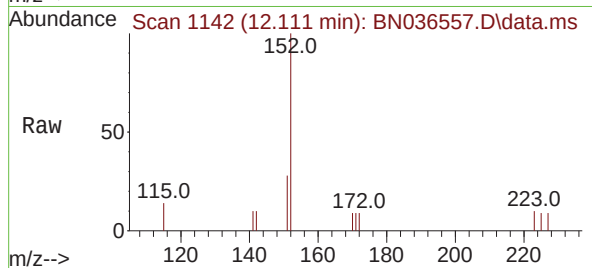
Tgt Ion:	225	Resp:	486
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	64.8	51.8	77.8





#11
2-Methylnaphthalene-d10
Concen: 0.110 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

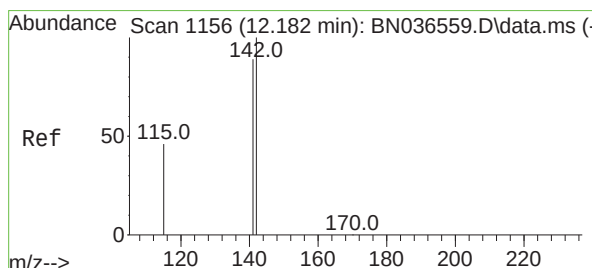
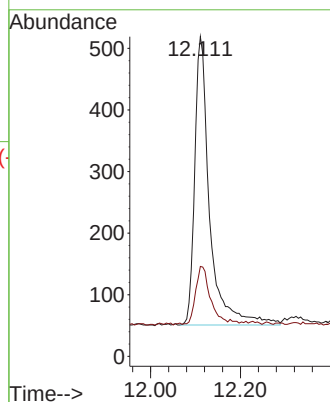
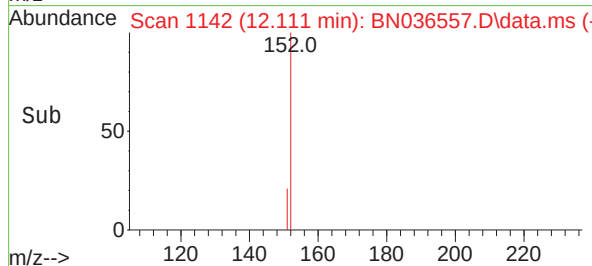
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:152 Resp: 1079
Ion Ratio Lower Upper
152 100
151 19.5 17.0 25.6

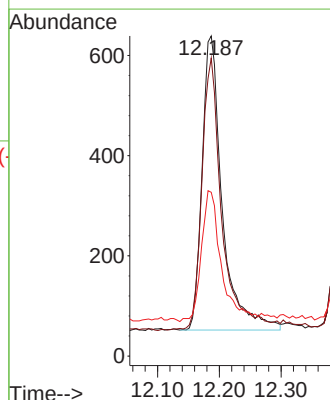
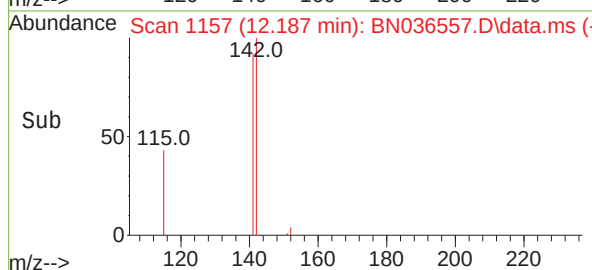
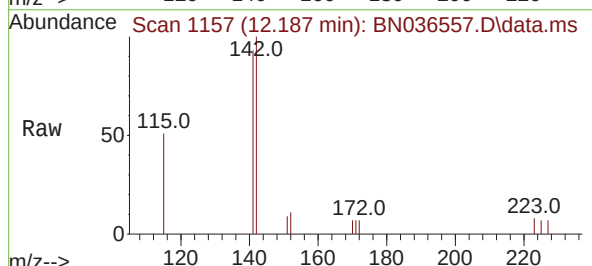
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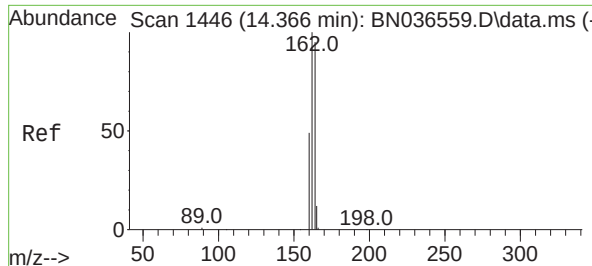
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#12
2-Methylnaphthalene
Concen: 0.108 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

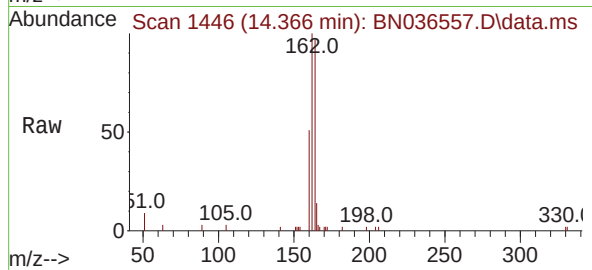
Tgt Ion:142 Resp: 1331
Ion Ratio Lower Upper
142 100
141 93.1 71.7 107.5
115 51.2 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

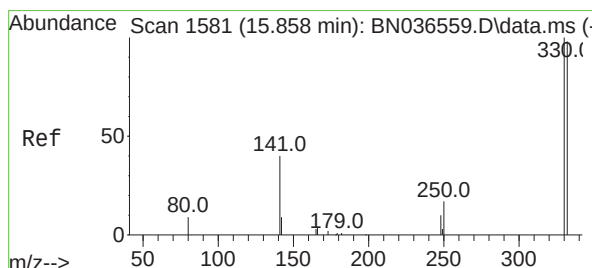
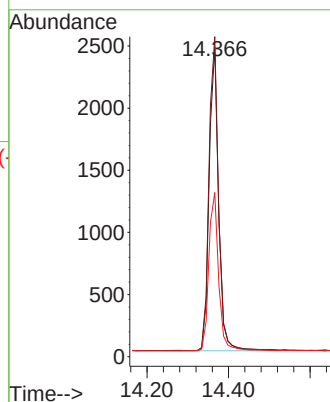
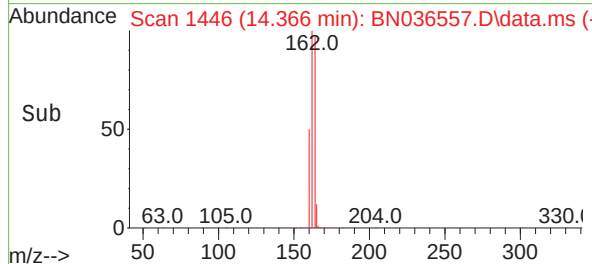
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:164 Resp: 395
Ion Ratio Lower Upper
164 100
162 103.3 84.2 126.2
160 53.0 42.2 63.2

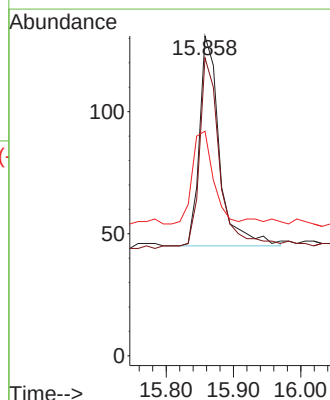
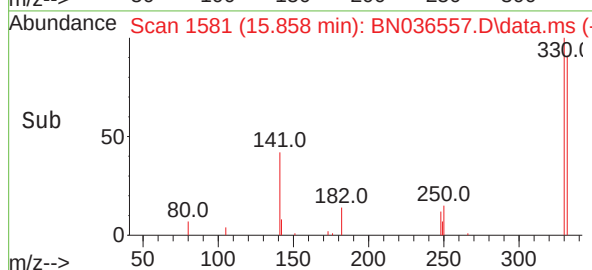
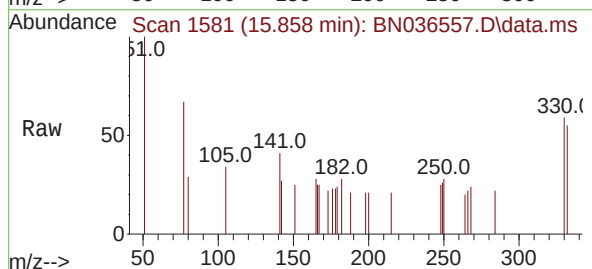
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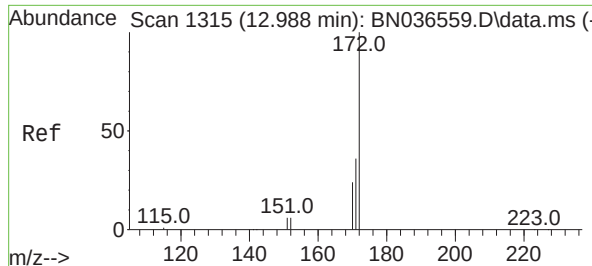
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#14
2,4,6-Tribromophenol
Concen: 0.100 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:330 Resp: 179
Ion Ratio Lower Upper
330 100
332 96.1 75.2 112.8
141 46.4 43.4 65.2





#15

2-Fluorobiphenyl

Concen: 0.095 ng

RT: 12.993 min Scan# 1419

Delta R.T. 0.005 min

Lab File: BN036557.D

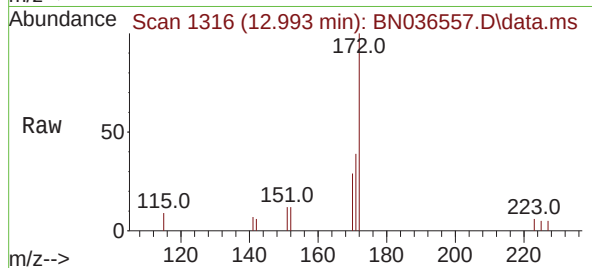
Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1



Tgt Ion:172 Resp: 218

Ion Ratio Lower Upper

172 100

171 38.9 29.5 44.3

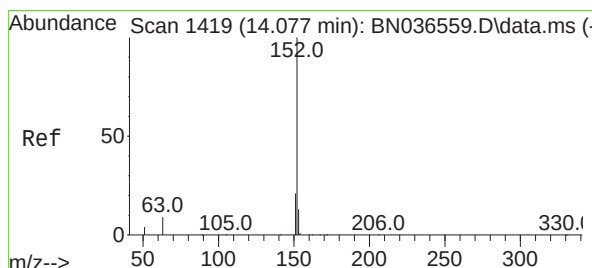
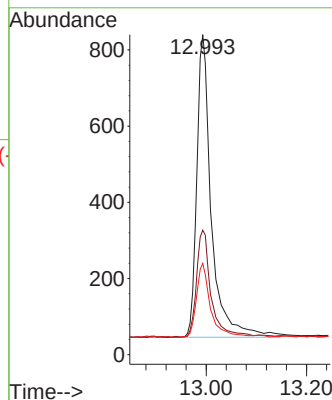
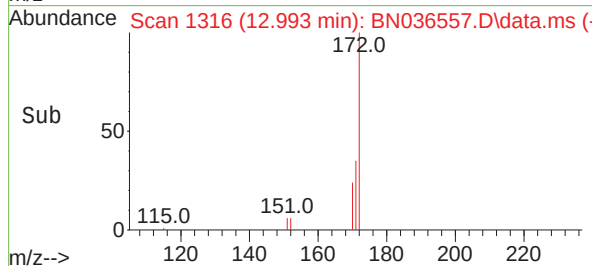
170 28.6 20.2 30.4

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#16

Acenaphthylene

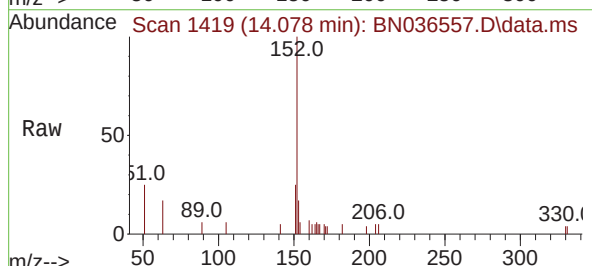
Concen: 0.100 ng

RT: 14.078 min Scan# 1419

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42



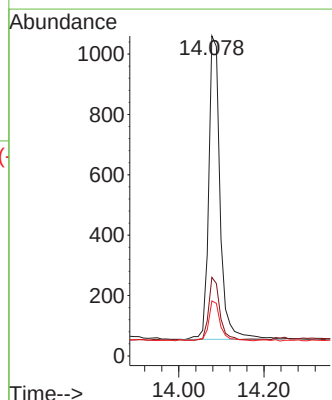
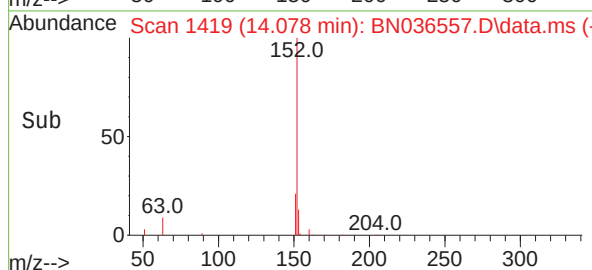
Tgt Ion:152 Resp: 1862

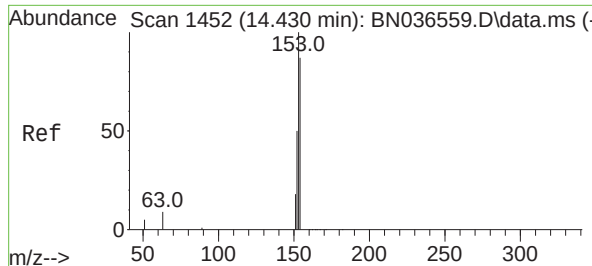
Ion Ratio Lower Upper

152 100

151 20.2 16.2 24.4

153 14.1 10.6 15.8





#17

Acenaphthene

Concen: 0.102 ng

RT: 14.430 min Scan# 1452

Delta R.T. 0.000 min

Lab File: BN036557.D

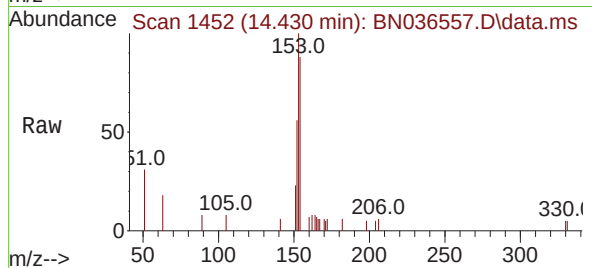
Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

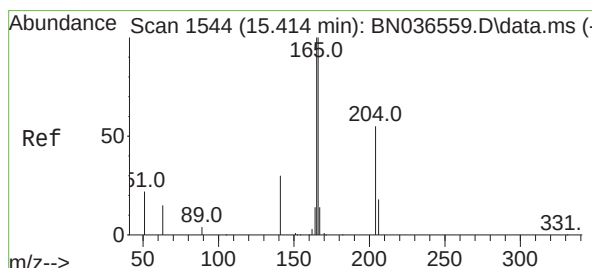
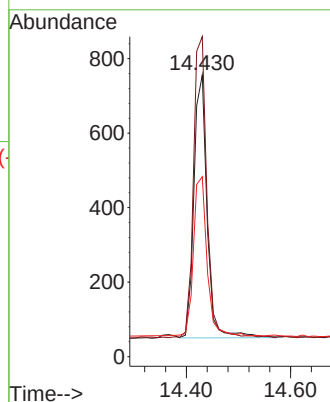
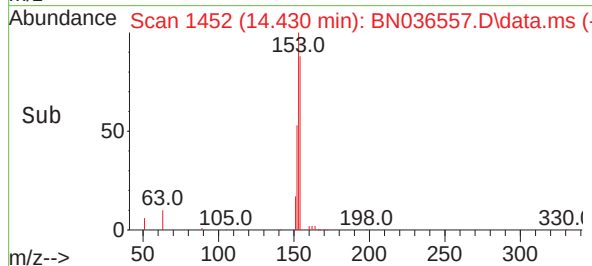
SSTDICC0.1



Tgt Ion:	154	Resp:	124
Ion Ratio	Lower	Upper	
154	100		
153	115.9	94.1	141.1
152	62.5	49.8	74.6

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#18

Fluorene

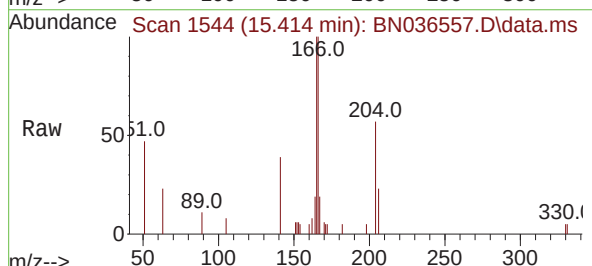
Concen: 0.097 ng

RT: 15.414 min Scan# 1544

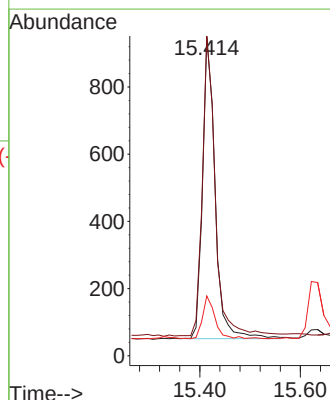
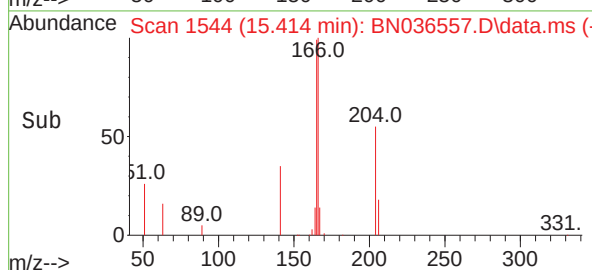
Delta R.T. 0.000 min

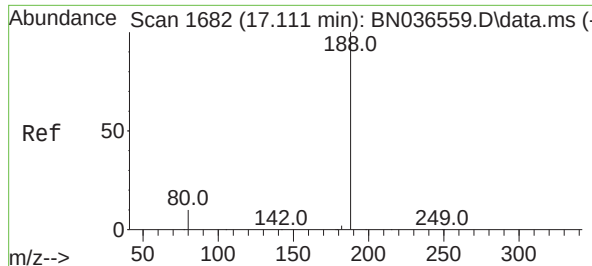
Lab File: BN036557.D

Acq: 10 Mar 2025 11:42



Tgt Ion:	166	Resp:	1612
Ion Ratio	Lower	Upper	
166	100		
165	100.9	79.8	119.8
167	13.9	10.6	15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1682

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Tgt Ion:188 Resp: 826

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

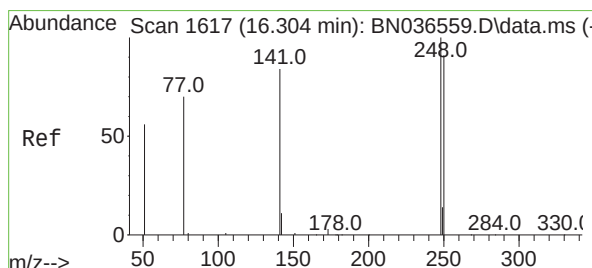
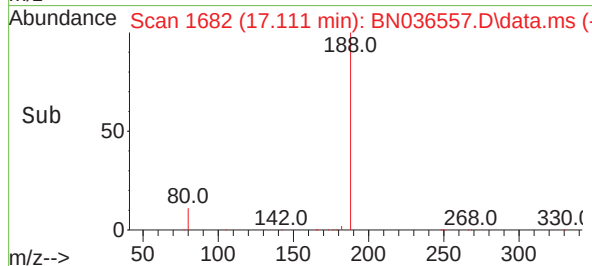
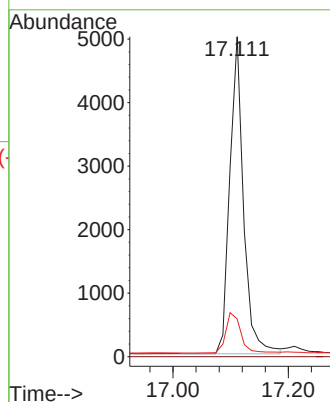
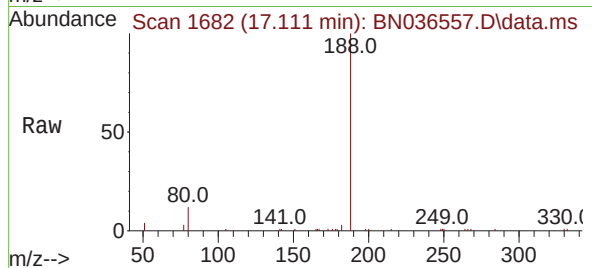
80 11.8 8.8 13.2

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Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#21

4-Bromophenyl-phenylether

Concen: 0.097 ng

RT: 16.304 min Scan# 1617

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

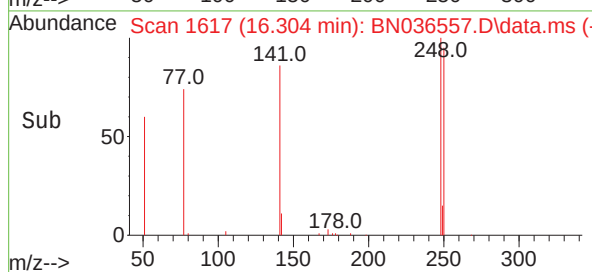
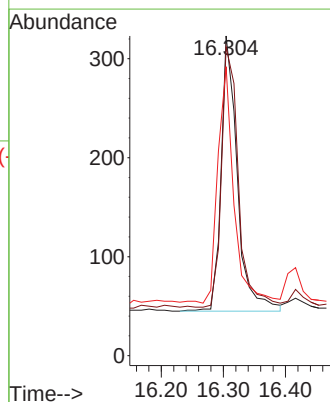
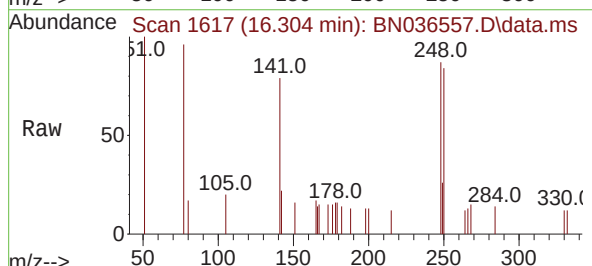
Tgt Ion:248 Resp: 502

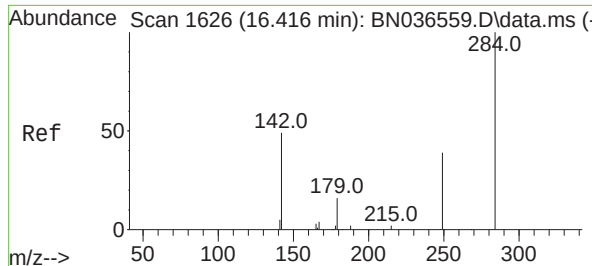
Ion Ratio Lower Upper

248 100

250 96.6 73.0 109.6

141 90.4 68.6 103.0





#22

Hexachlorobenzene

Concen: 0.101 ng

RT: 16.416 min Scan# 1626

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

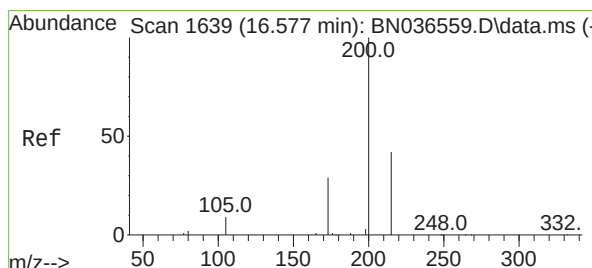
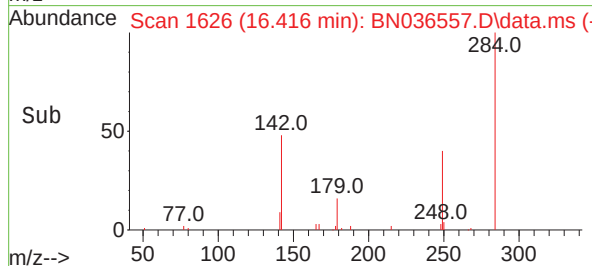
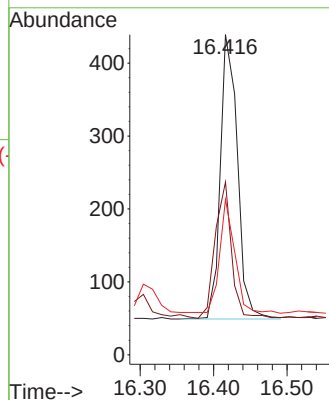
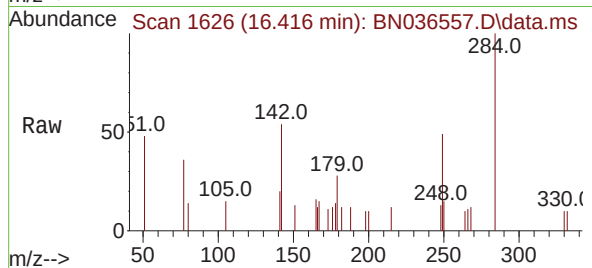
ClientSampleId :

SSTDICC0.1

Tgt Ion:	284	Resp:	63
Ion Ratio	Lower	Upper	
284	100		
142	45.7	37.0	55.4
249	37.2	28.1	42.1

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#23

Atrazine

Concen: 0.096 ng

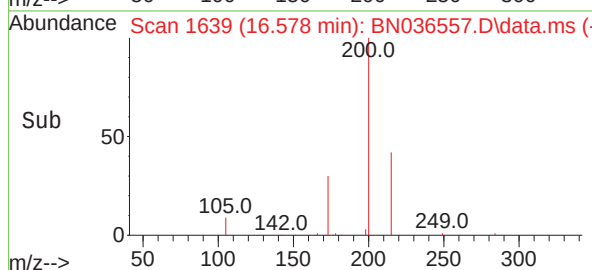
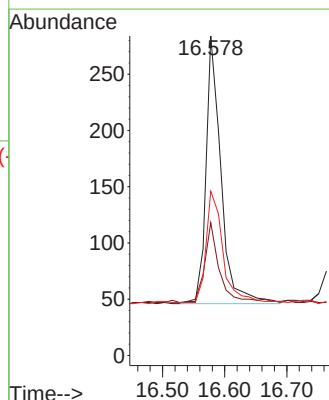
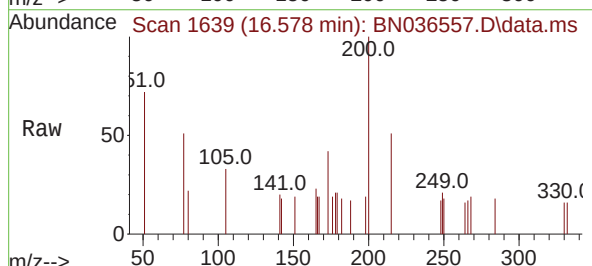
RT: 16.578 min Scan# 1639

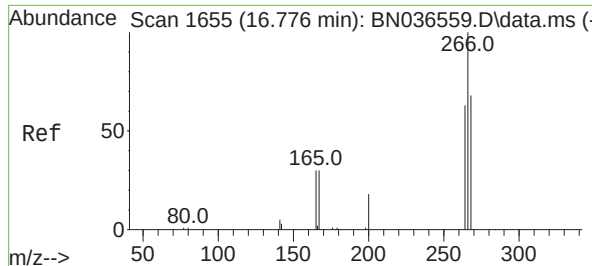
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:	200	Resp:	400
Ion Ratio	Lower	Upper	
200	100		
173	41.5	27.3	40.9
215	51.4	36.8	55.2





#24

Pentachlorophenol

Concen: 0.102 ng

RT: 16.776 min Scan# 1655

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

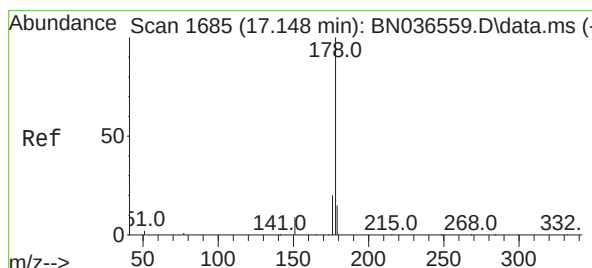
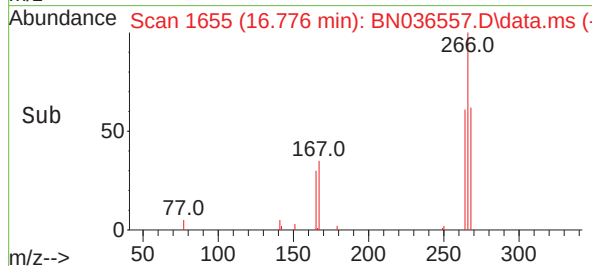
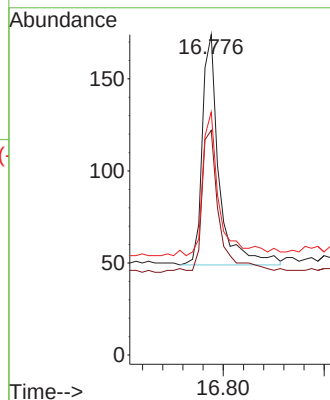
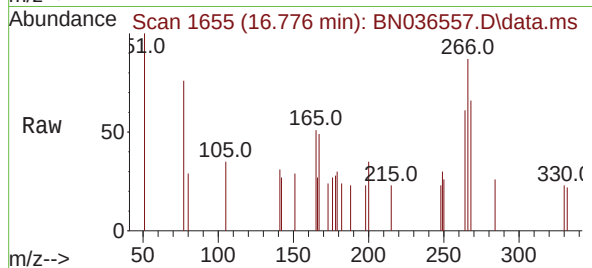
SSTDICC0.1

Tgt Ion:	266	Resp:	290
Ion Ratio	Lower	Upper	
266	100		
264	64.8	49.6	74.4
268	62.8	50.9	76.3

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#25

Phenanthrene

Concen: 0.099 ng

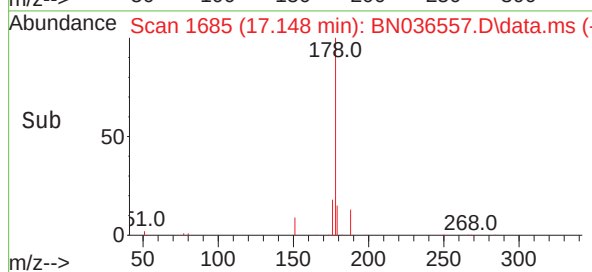
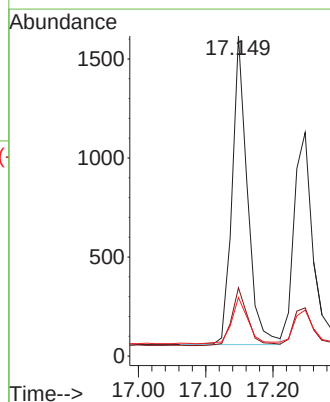
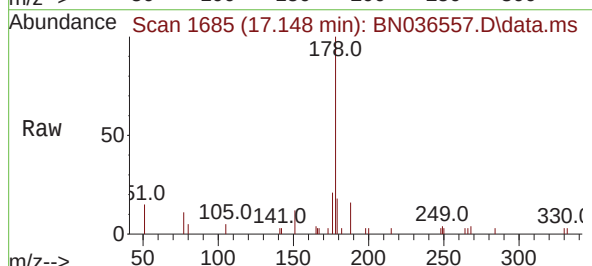
RT: 17.148 min Scan# 1685

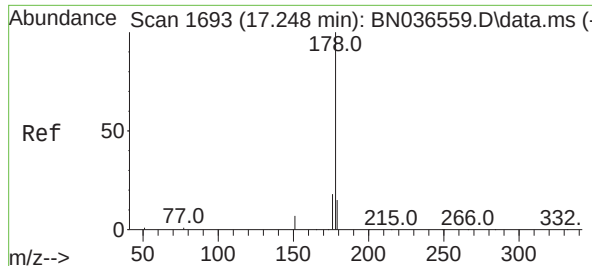
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:	178	Resp:	2459
Ion Ratio	Lower	Upper	
178	100		
176	19.6	15.9	23.9
179	16.1	12.2	18.4





#26

Anthracene

Concen: 0.095 ng

RT: 17.248 min Scan# 1693

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

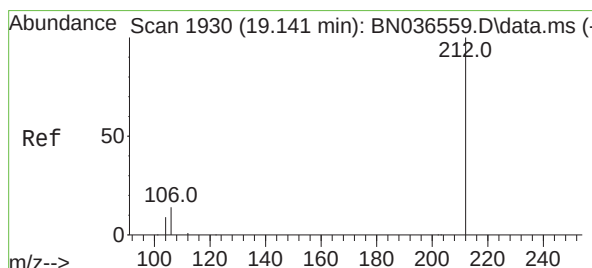
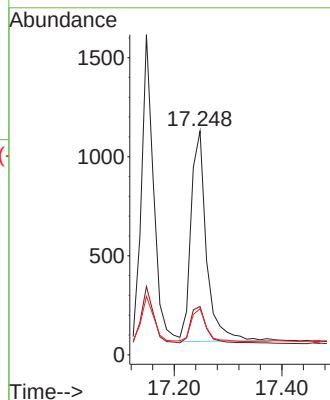
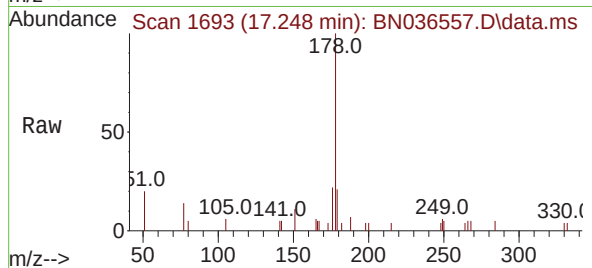
Tgt Ion:	178	Resp:	212
Ion Ratio	Lower	Upper	
178	100		
176	19.3	15.4	23.2
179	15.7	12.6	18.8

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#27

Fluoranthene-d10

Concen: 0.101 ng

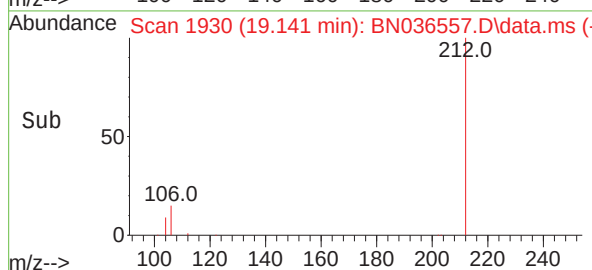
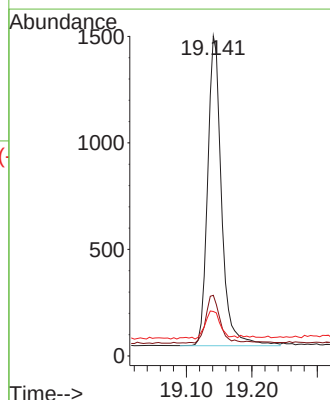
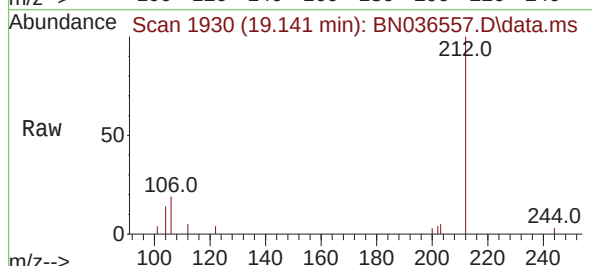
RT: 19.141 min Scan# 1930

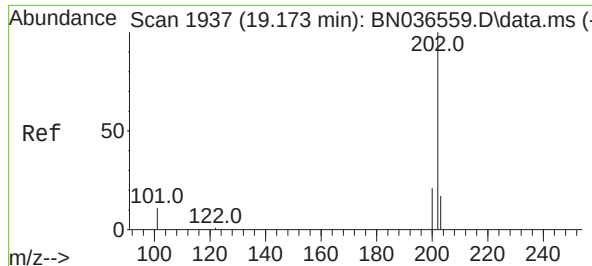
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:	212	Resp:	2144
Ion Ratio	Lower	Upper	
212	100		
106	15.5	11.8	17.6
104	9.7	7.3	10.9





#28

Fluoranthene

Concen: 0.099 ng

RT: 19.174 min Scan# 1937

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

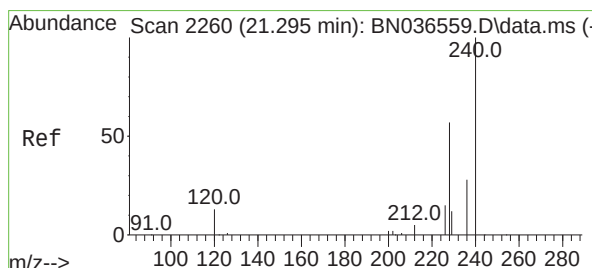
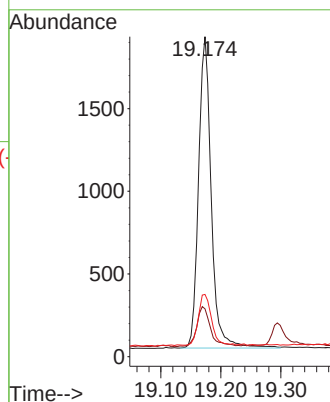
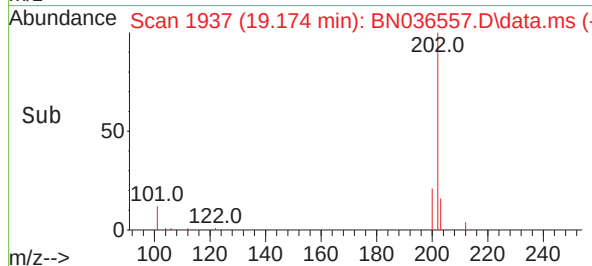
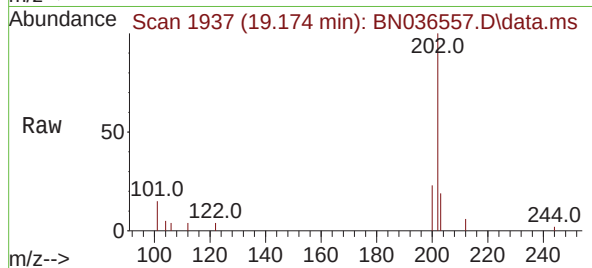
ClientSampleId :

SSTDICC0.1

Tgt Ion:	202	Resp:	277
Ion Ratio	Lower	Upper	
202	100		
101	14.0	9.4	14.0
203	17.0	13.5	20.3

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#29

Chrysene-d12

Concen: 0.400 ng

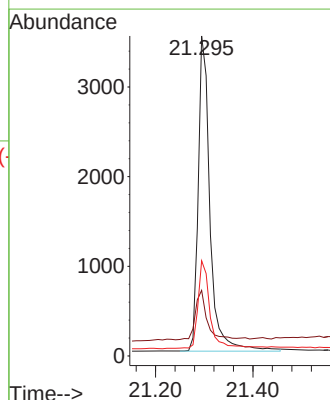
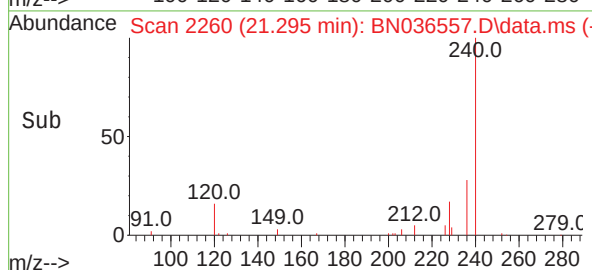
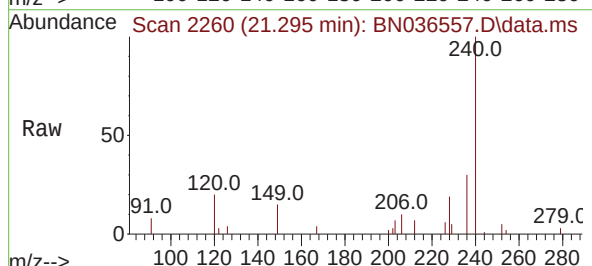
RT: 21.295 min Scan# 2260

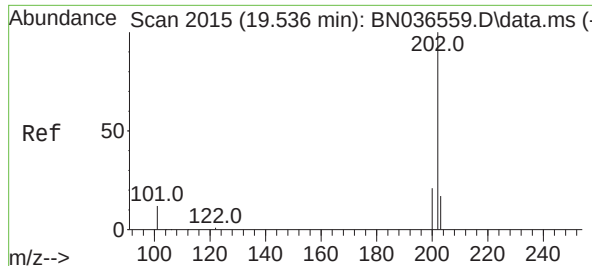
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:	240	Resp:	5886
Ion Ratio	Lower	Upper	
240	100		
120	20.5	14.6	22.0
236	29.8	24.1	36.1





#30

Pyrene

Concen: 0.099 ng

RT: 19.536 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

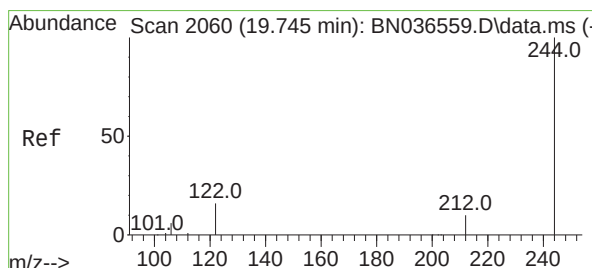
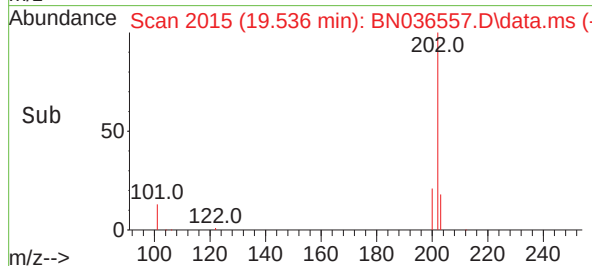
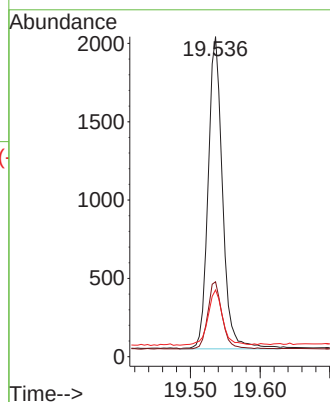
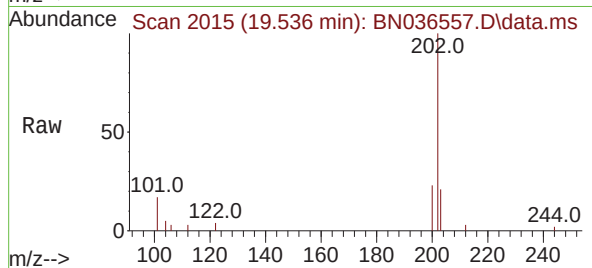
ClientSampleId :

SSTDICC0.1

Tgt Ion:	202	Resp:	286
Ion Ratio	Lower	Upper	
202	100		
200	21.3	17.1	25.7
203	17.9	14.1	21.1

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#31

Terphenyl-d14

Concen: 0.100 ng

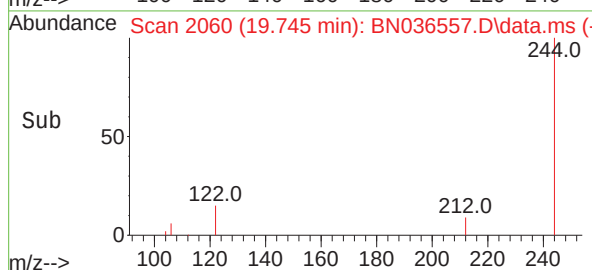
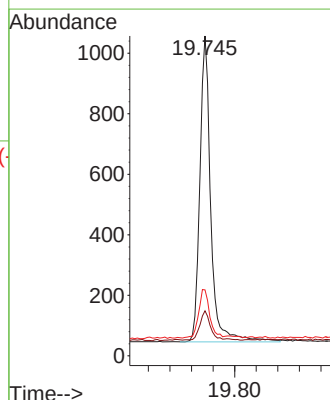
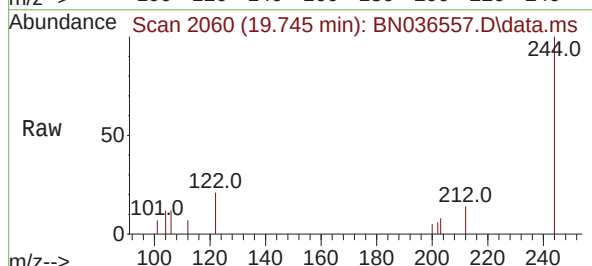
RT: 19.745 min Scan# 2060

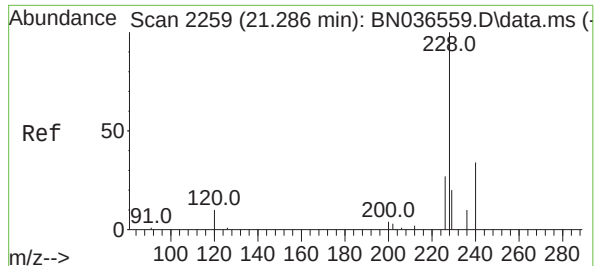
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:	244	Resp:	1416
Ion Ratio	Lower	Upper	
244	100		
212	14.1	9.6	14.4
122	20.6	13.9	20.9





#32

Benzo(a)anthracene

Concen: 0.100 ng

RT: 21.286 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

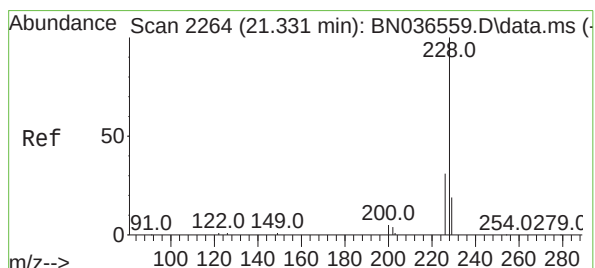
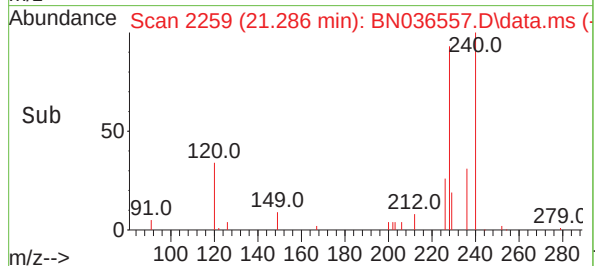
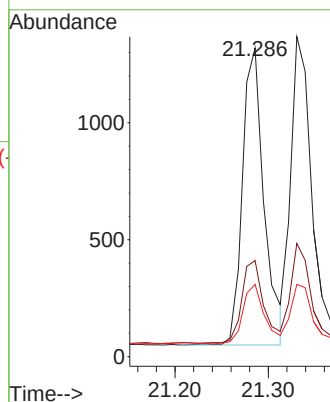
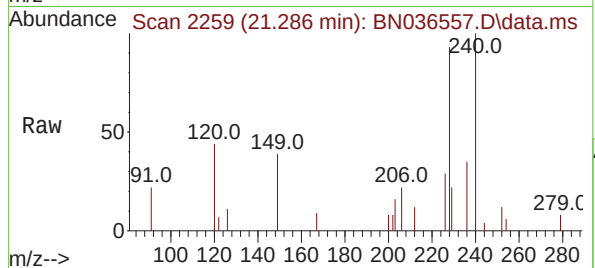
ClientSampleId :

SSTDICC0.1

Tgt Ion:	228	Resp:	204
Ion Ratio	Lower	Upper	
228	100		
226	31.1	22.5	33.7
229	23.4	16.6	25.0

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#33

Chrysene

Concen: 0.098 ng

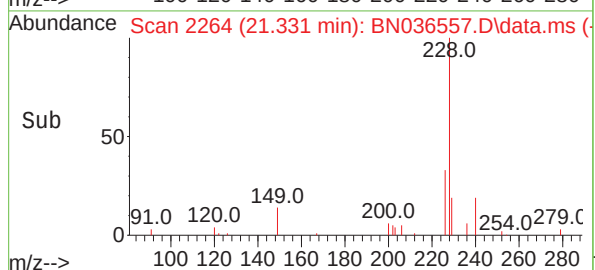
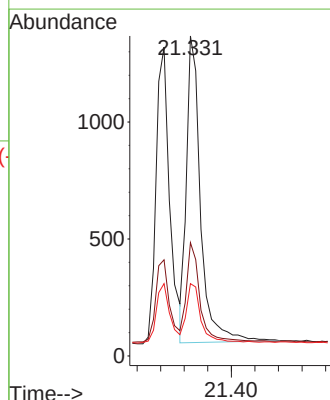
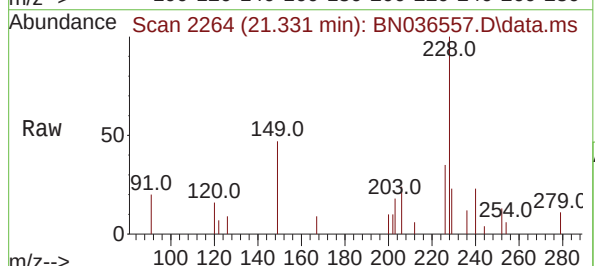
RT: 21.331 min Scan# 2264

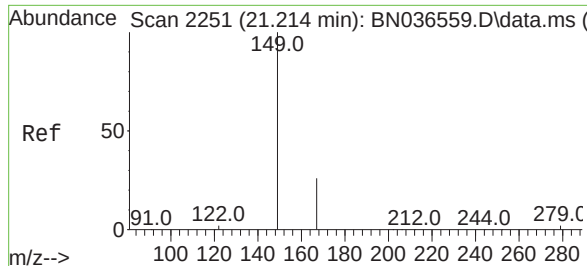
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:	228	Resp:	2187
Ion Ratio	Lower	Upper	
228	100		
226	35.4	25.3	37.9
229	22.6	15.8	23.8





#34

Bis(2-ethylhexyl)phthalate

Concen: 0.121 ng

RT: 21.214 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

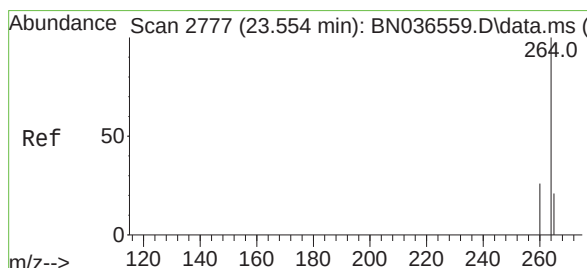
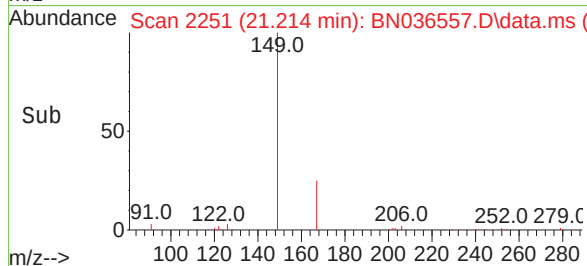
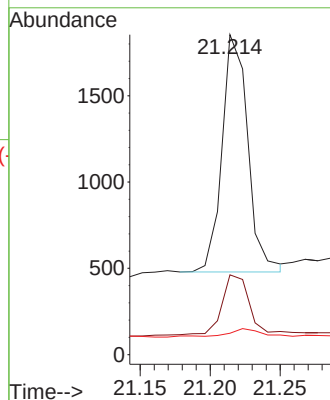
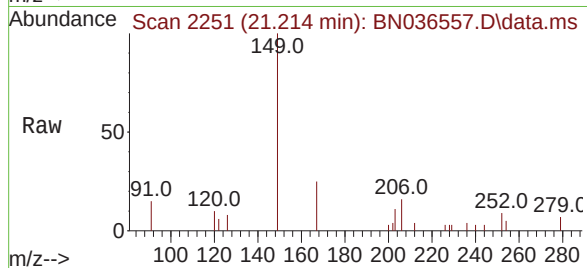
Tgt Ion:	149	Resp:	1760
Ion Ratio	Lower	Upper	
149	100		
167	27.9	20.7	31.1
279	4.9	3.6	5.4

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#35

Perylene-d12

Concen: 0.400 ng

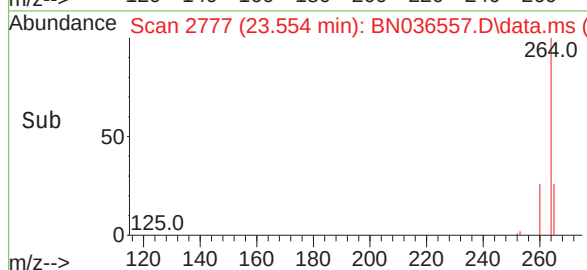
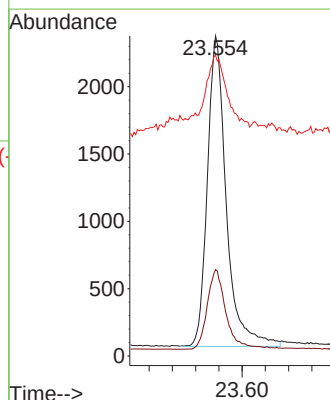
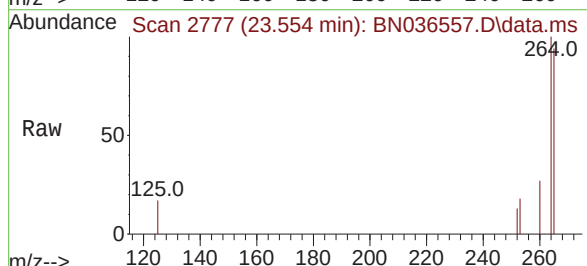
RT: 23.554 min Scan# 2777

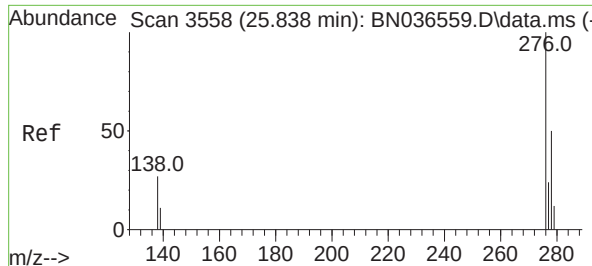
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:	264	Resp:	5207
Ion Ratio	Lower	Upper	
264	100		
260	27.0	22.6	33.8
265	93.9	88.1	132.1





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.080 ng

RT: 25.841 min Scan# 3558

Delta R.T. 0.003 min

Lab File: BN036557.D

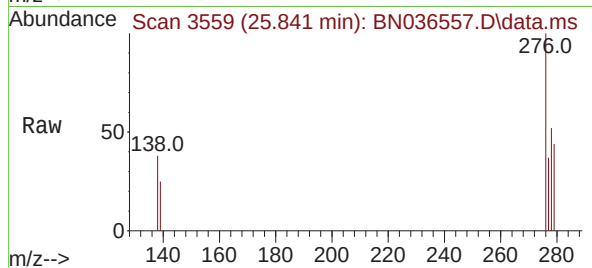
Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1



Tgt Ion:276 Resp: 1510

Ion Ratio Lower Upper

276 100

138 27.6 23.4 35.2

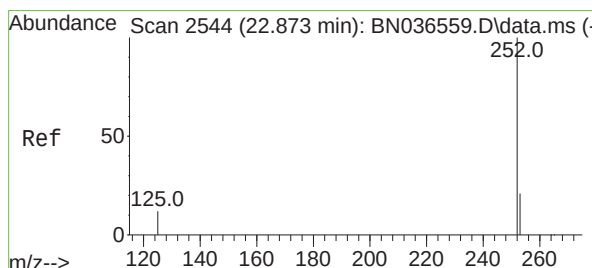
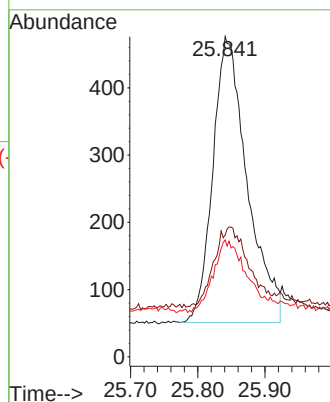
277 24.2 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#37

Benzo(b)fluoranthene

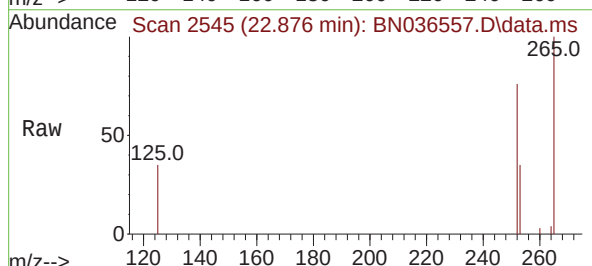
Concen: 0.090 ng

RT: 22.876 min Scan# 2545

Delta R.T. 0.003 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42



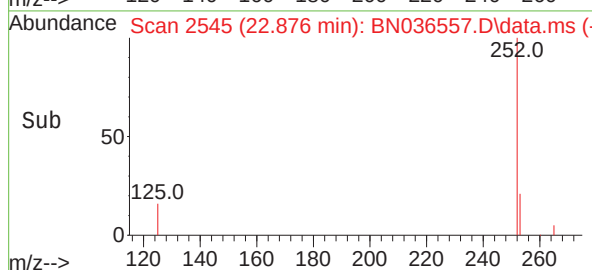
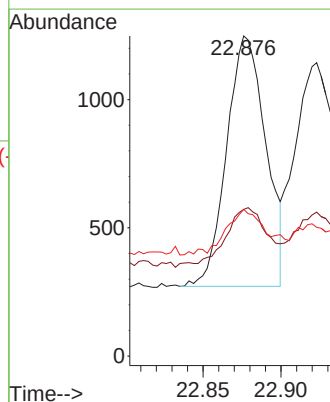
Tgt Ion:252 Resp: 1707

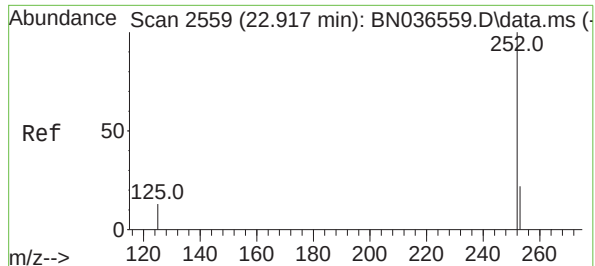
Ion Ratio Lower Upper

252 100

253 45.8 23.9 35.9#

125 45.8 17.4 26.2#





#38

Benzo(k)fluoranthene

Concen: 0.098 ng

RT: 22.923 min Scan# 2561

Delta R.T. 0.006 min

Lab File: BN036557.D

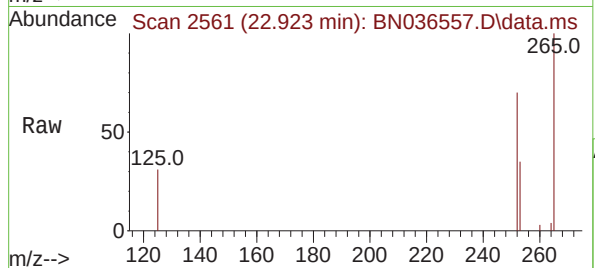
Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1



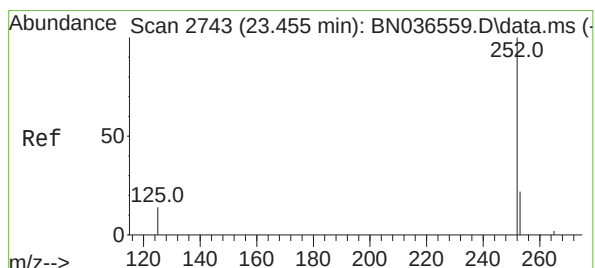
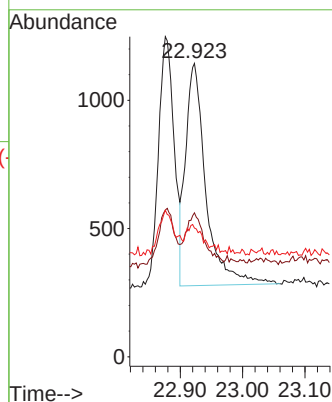
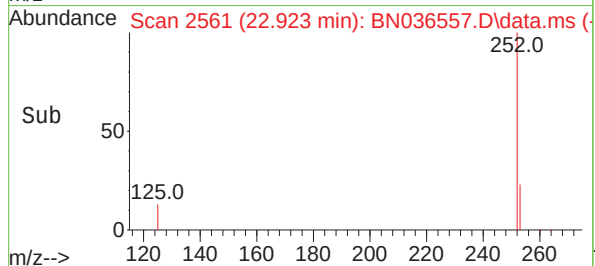
Tgt Ion:	252	Resp:	195
Ion Ratio	Lower	Upper	
252	100		
253	49.0	24.6	36.8
125	43.9	17.8	26.8

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#39

Benzo(a)pyrene

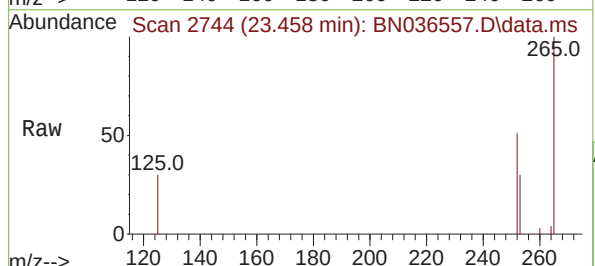
Concen: 0.089 ng

RT: 23.458 min Scan# 2744

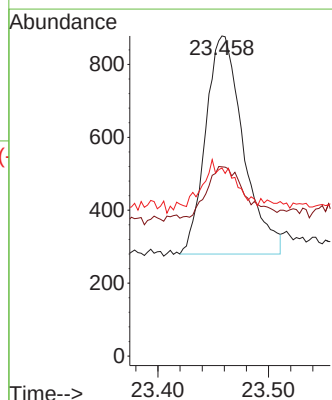
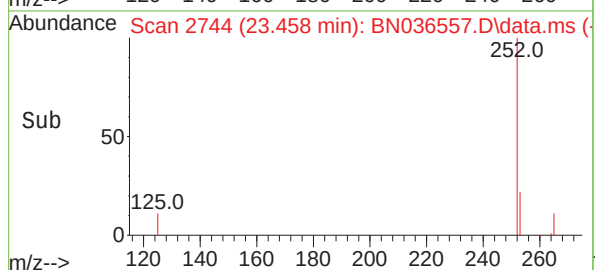
Delta R.T. 0.003 min

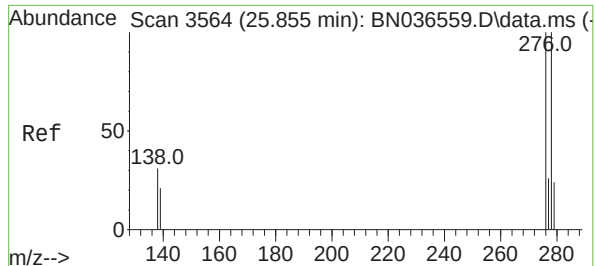
Lab File: BN036557.D

Acq: 10 Mar 2025 11:42



Tgt Ion:	252	Resp:	1419
Ion Ratio	Lower	Upper	
252	100		
253	59.1	27.8	41.8
125	58.8	22.7	34.1





#40

Dibenzo(a,h)anthracene

Concen: 0.079 ng

RT: 25.861 min Scan# 3566

Delta R.T. 0.006 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

Tgt Ion:278 Resp: 116

Ion Ratio Lower Upper

278 100

139 37.8 20.8 31.2

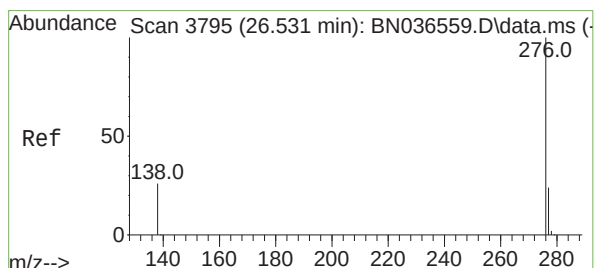
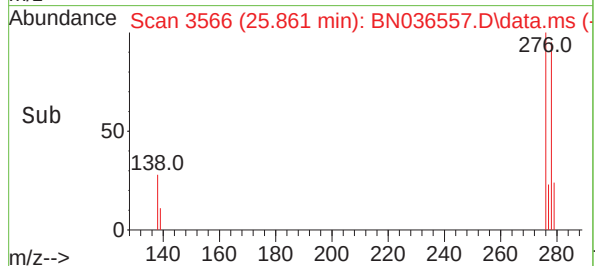
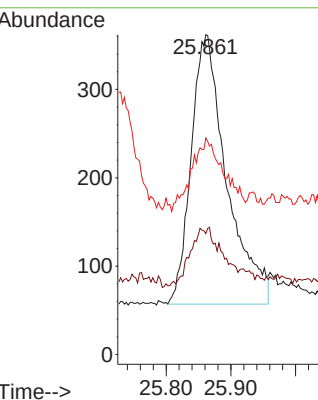
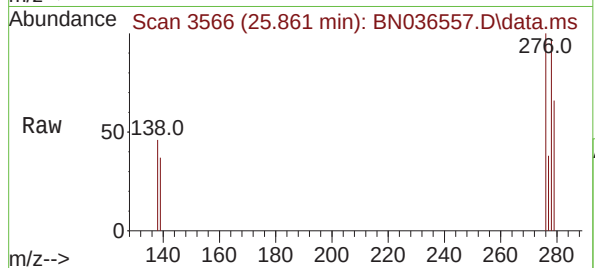
279 67.7 28.8 43.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#41

Benzo(g,h,i)perylene

Concen: 0.089 ng

RT: 26.539 min Scan# 3798

Delta R.T. 0.009 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

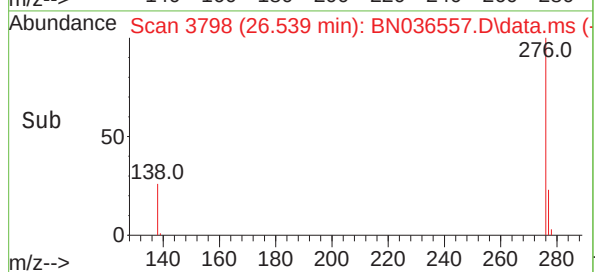
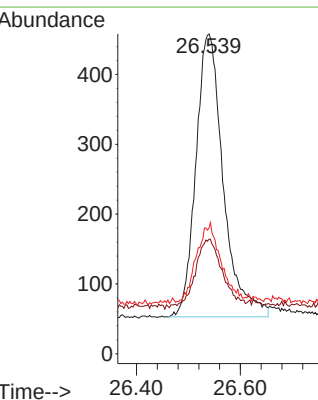
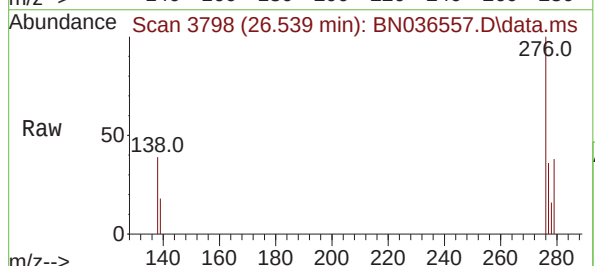
Tgt Ion:276 Resp: 1482

Ion Ratio Lower Upper

276 100

277 35.8 22.2 33.4#

138 39.3 24.1 36.1#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036558.D
 Acq On : 10 Mar 2025 12:18
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025

Quant Time: Mar 10 16:00:58 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Mar 10 15:54:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2504	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5844	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3516	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	7506	0.400	ng	0.00
29) Chrysene-d12	21.295	240	4730	0.400	ng	0.00
35) Perylene-d12	23.554	264	4241	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1137	0.195	ng	0.00
5) Phenol-d6	6.901	99	1323	0.184	ng	0.00
8) Nitrobenzene-d5	8.875	82	1156	0.182	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	1603	0.184	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	282	0.177	ng	0.00
15) 2-Fluorobiphenyl	12.993	172	3485	0.170	ng	0.00
27) Fluoranthene-d10	19.146	212	3583	0.186	ng	0.00
31) Terphenyl-d14	19.745	244	2283	0.201	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.247	88	550m	0.198	ng	
3) n-Nitrosodimethylamine	3.557	42	1094	0.195	ng	92
6) bis(2-Chloroethyl)ether	7.154	93	1440	0.193	ng	99
9) Naphthalene	10.562	128	3286	0.191	ng	97
10) Hexachlorobutadiene	10.850	225	828	0.205	ng	# 97
12) 2-Methylnaphthalene	12.187	142	2034	0.186	ng	97
16) Acenaphthylene	14.088	152	3087	0.186	ng	100
17) Acenaphthene	14.430	154	2038	0.188	ng	99
18) Fluorene	15.414	166	2813	0.191	ng	99
20) 4,6-Dinitro-2-methylph...	15.510	198	214	0.258	ng	# 69
21) 4-Bromophenyl-phenylether	16.304	248	853	0.181	ng	93
22) Hexachlorobenzene	16.416	284	1079	0.190	ng	99
23) Atrazine	16.578	200	716	0.190	ng	97
24) Pentachlorophenol	16.776	266	435	0.168	ng	98
25) Phenanthrene	17.148	178	4171	0.185	ng	100
26) Anthracene	17.248	178	3645	0.179	ng	99
28) Fluoranthene	19.174	202	4666	0.184	ng	99
30) Pyrene	19.536	202	4742	0.205	ng	100
32) Benzo(a)anthracene	21.286	228	3111	0.189	ng	97
33) Chrysene	21.331	228	3568	0.199	ng	97
34) Bis(2-ethylhexyl)phtha...	21.214	149	2601	0.222	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.844	276	2790	0.182	ng	98
37) Benzo(b)fluoranthene	22.876	252	2883	0.187	ng	# 83
38) Benzo(k)fluoranthene	22.917	252	2962	0.183	ng	# 86
39) Benzo(a)pyrene	23.458	252	2443	0.188	ng	# 76
40) Dibenzo(a,h)anthracene	25.858	278	2080	0.175	ng	# 83
41) Benzo(g,h,i)perylene	26.536	276	2573	0.189	ng	95

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

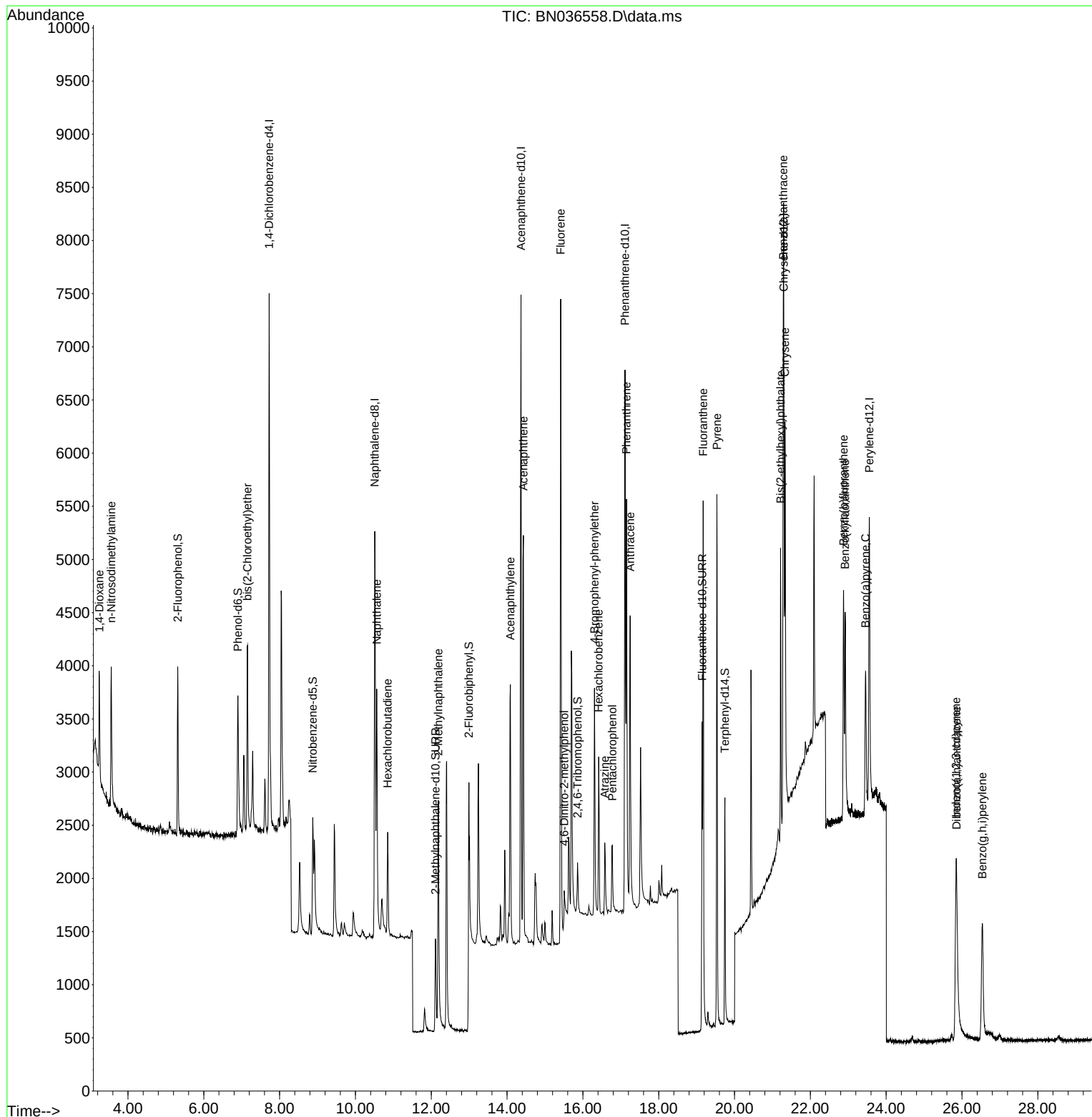
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Acq On : 10 Mar 2025 12:18
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

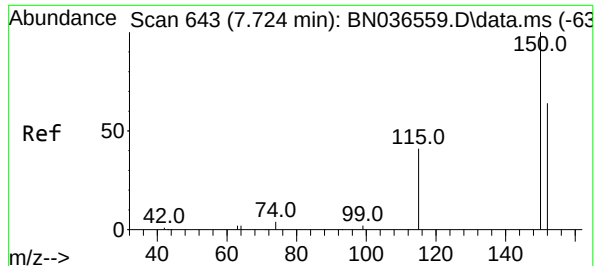
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Mar 10 16:00:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

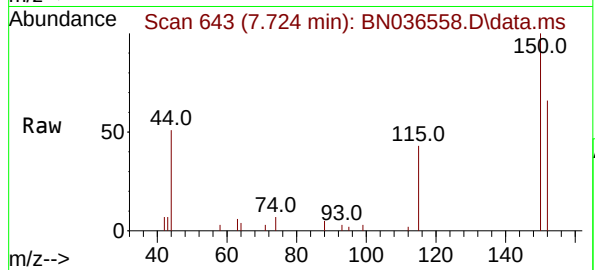
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

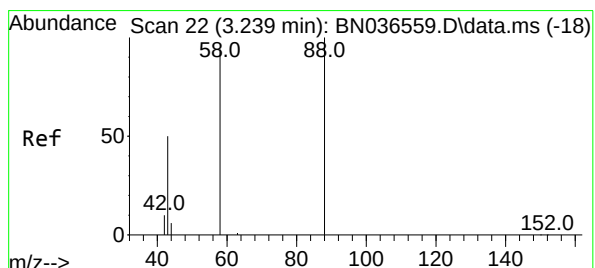
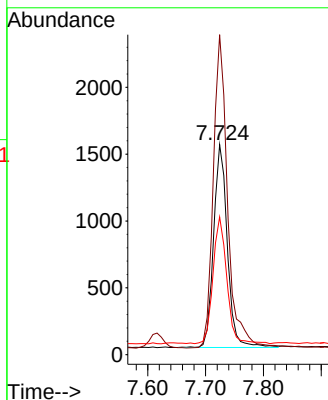
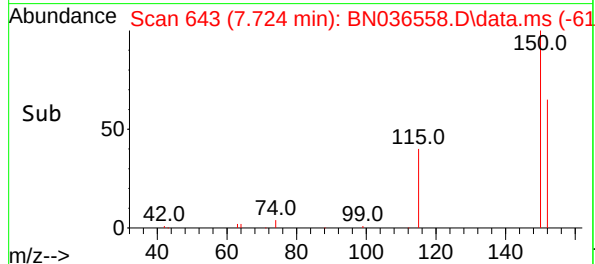
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



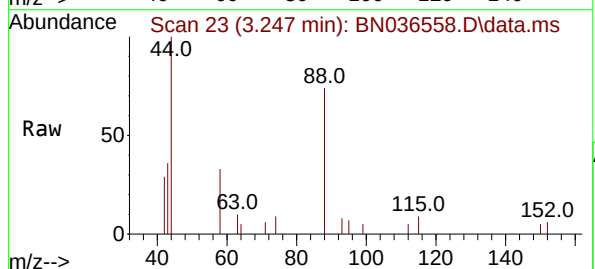
Tgt Ion: 152 Resp: 2504
Ion Ratio Lower Upper
152 100
150 152.3 123.7 185.5
115 65.5 54.3 81.5

Manual Integrations
APPROVED

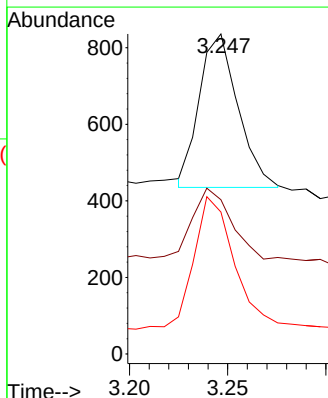
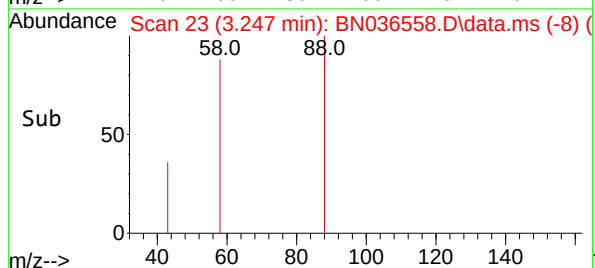
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

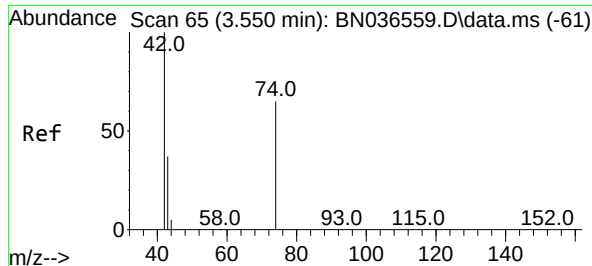


#2
1,4-Dioxane
Concen: 0.198 ng m
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18



Tgt Ion: 88 Resp: 550
Ion Ratio Lower Upper
88 100
43 56.5 37.8 56.8
58 93.8 67.4 101.2





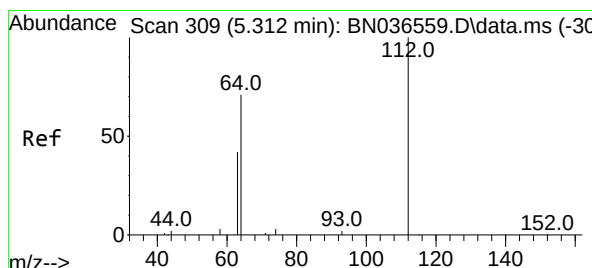
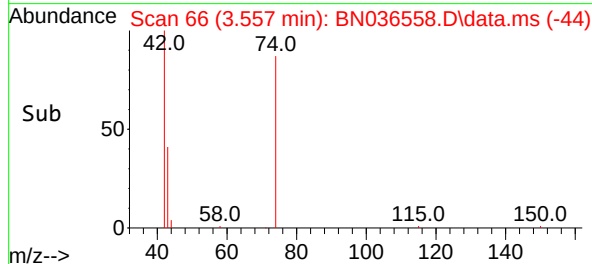
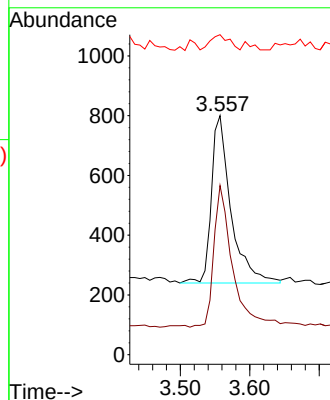
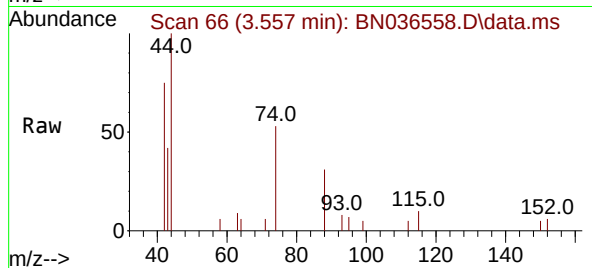
#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.557 min Scan# 60
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 1094
Ion Ratio Lower Upper
42 100
74 83.2 60.6 90.8
44 8.5 6.3 9.5

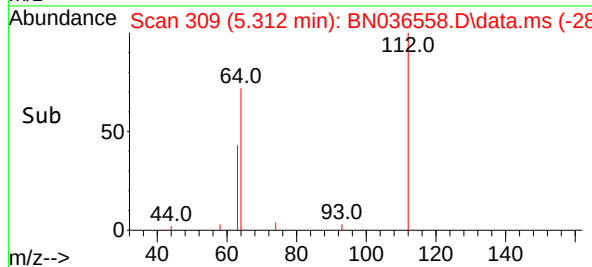
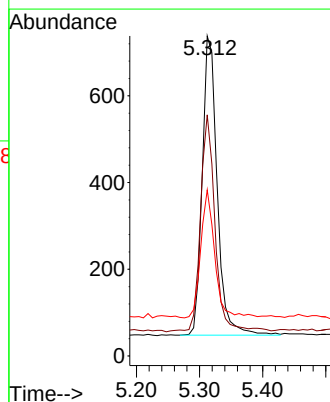
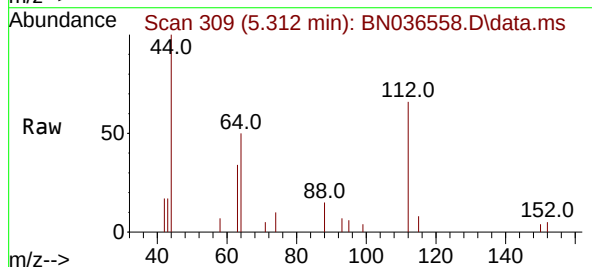
Manual Integrations
APPROVED

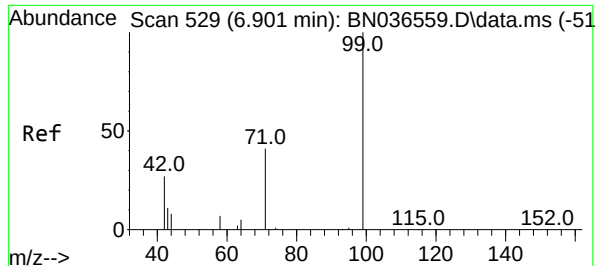
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#4
2-Fluorophenol
Concen: 0.195 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:112 Resp: 1137
Ion Ratio Lower Upper
112 100
64 70.6 53.1 79.7
63 40.3 31.8 47.8





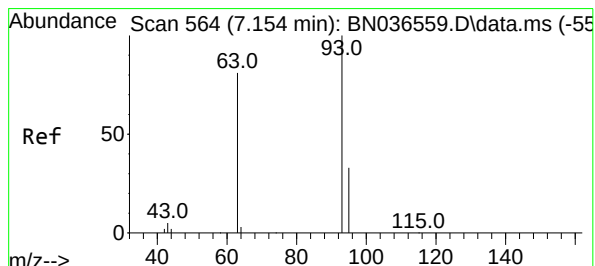
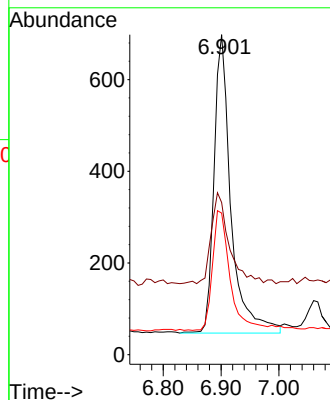
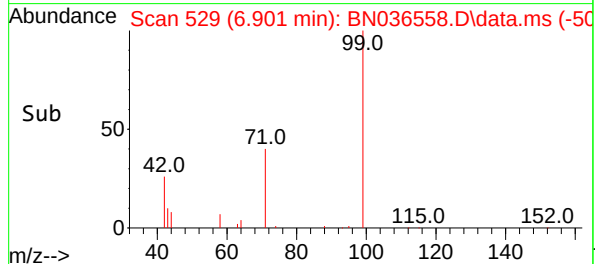
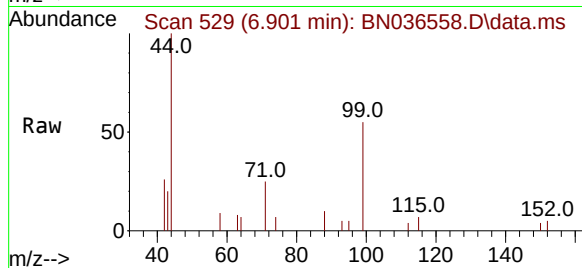
#5
Phenol-d6
Concen: 0.184 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 132
Ion Ratio Lower Upper
99 100
42 32.7 26.5 39.7
71 41.3 34.1 51.1

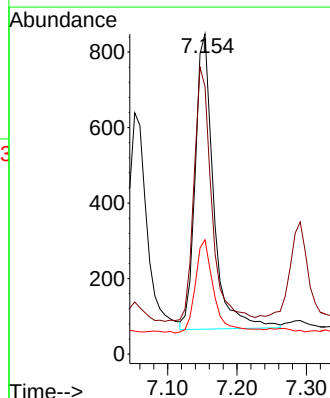
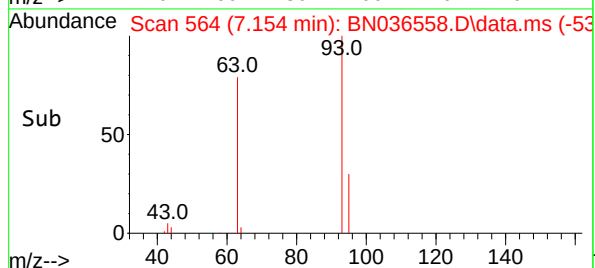
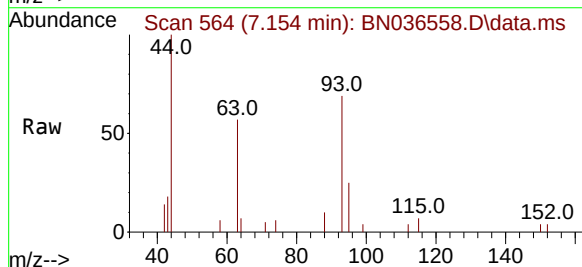
Manual Integrations
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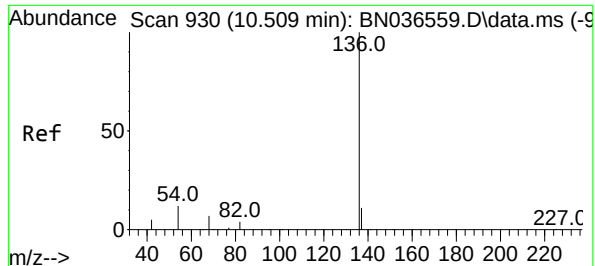
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.193 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

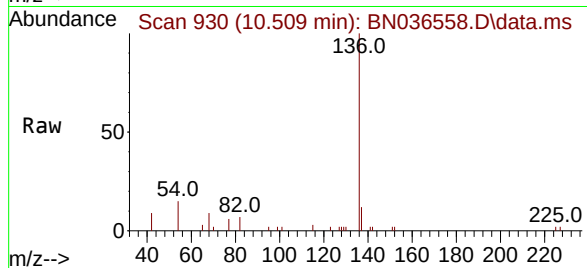
Tgt Ion: 93 Resp: 1440
Ion Ratio Lower Upper
93 100
63 82.9 67.7 101.5
95 31.9 25.6 38.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

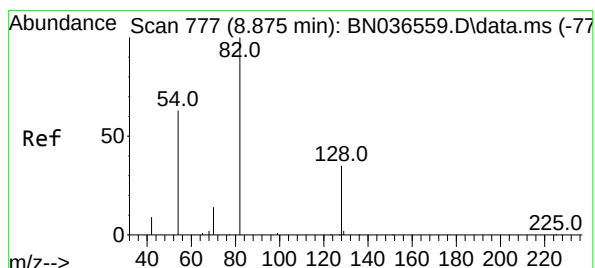
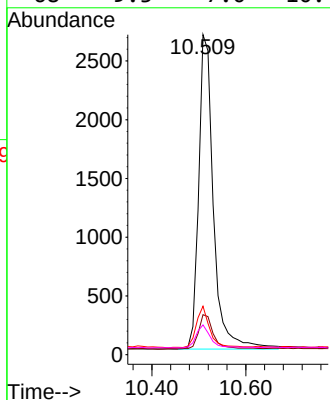
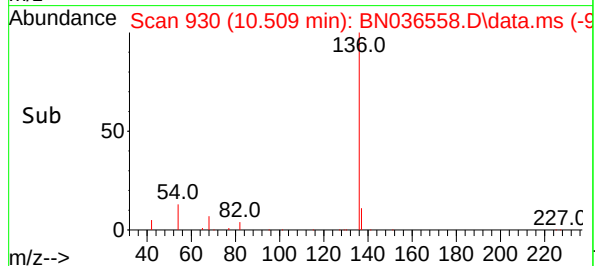
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:136 Resp: 584
Ion Ratio Lower Upper
136 100
137 12.5 10.3 15.5
54 15.1 11.5 17.3
68 9.3 7.0 10.4

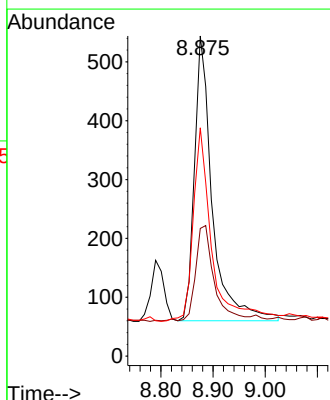
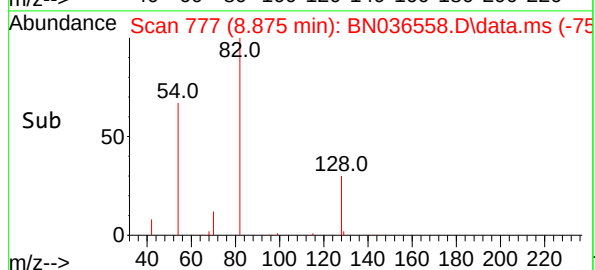
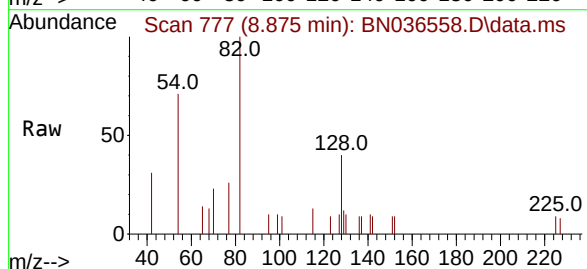
Manual Integrations
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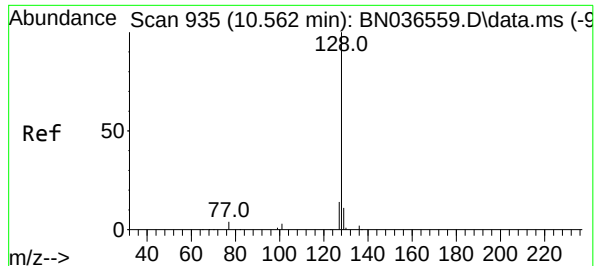
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#8
Nitrobenzene-d5
Concen: 0.182 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 82 Resp: 1156
Ion Ratio Lower Upper
82 100
128 39.9 30.6 45.8
54 71.3 52.2 78.4





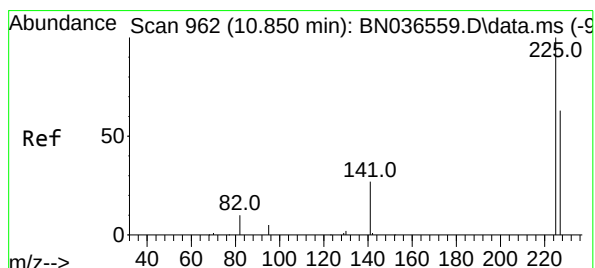
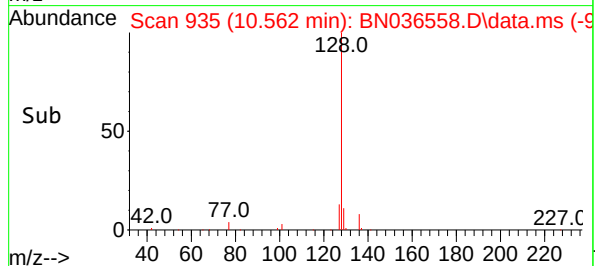
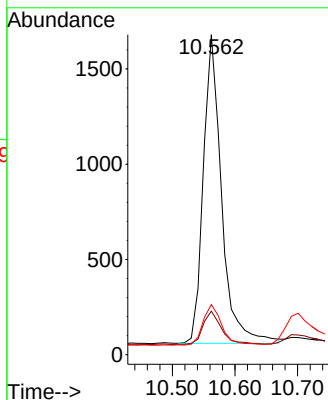
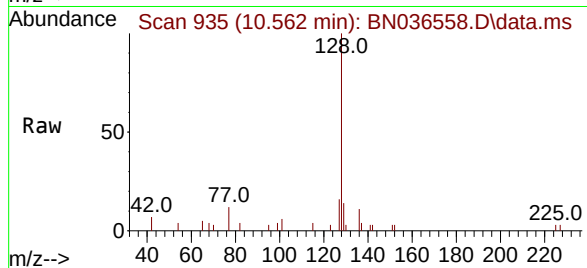
#9
Naphthalene
Concen: 0.191 ng
RT: 10.562 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 3280
Ion Ratio Lower Upper
128 100
129 13.6 9.8 14.6
127 15.7 11.8 17.8

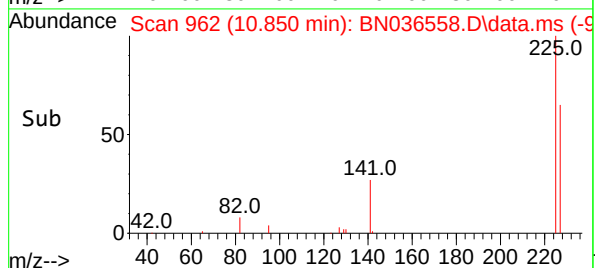
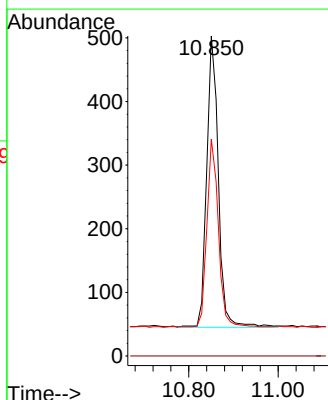
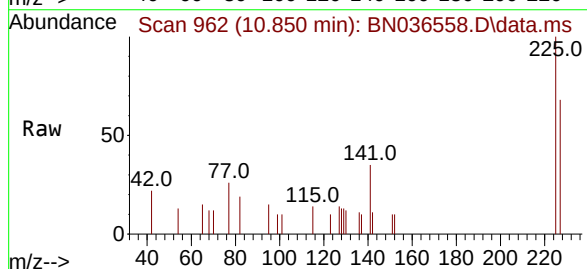
Manual Integrations
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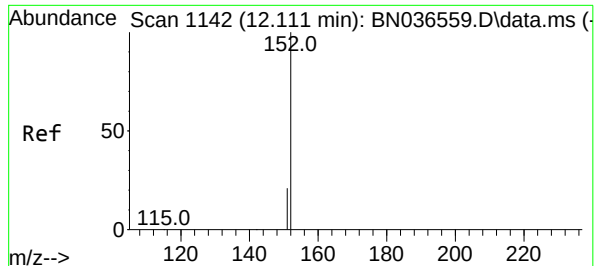
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#10
Hexachlorobutadiene
Concen: 0.205 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

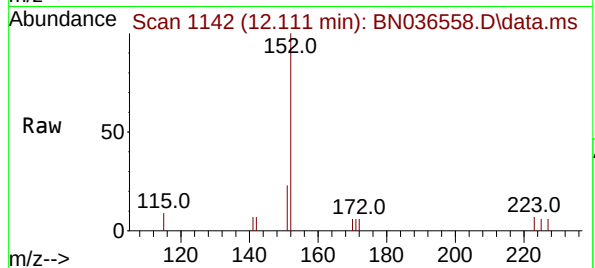
Tgt Ion:225 Resp: 828
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.6 51.8 77.8





#11
2-Methylnaphthalene-d10
Concen: 0.184 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

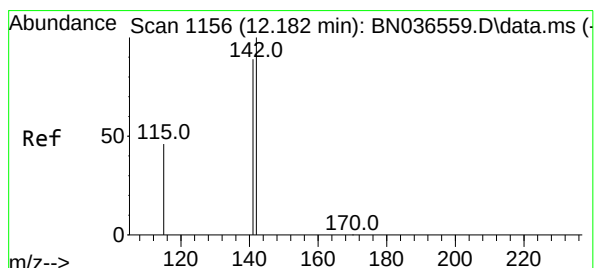
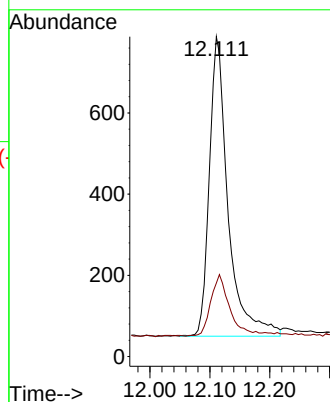
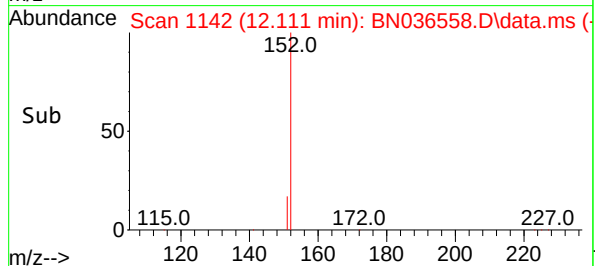
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



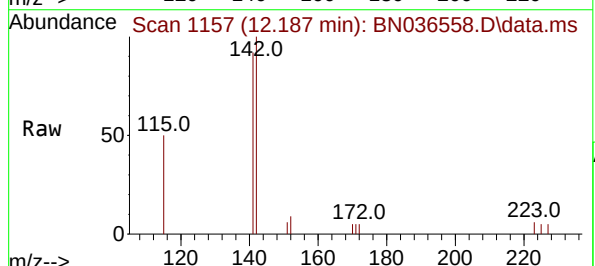
Tgt Ion:152 Resp: 160
Ion Ratio Lower Upper
152 100
151 21.0 17.0 25.6

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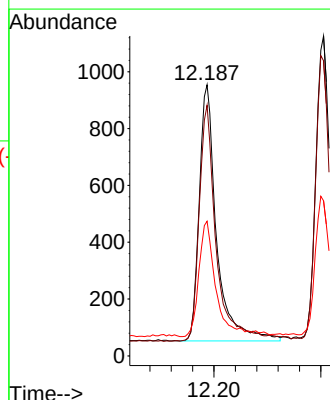
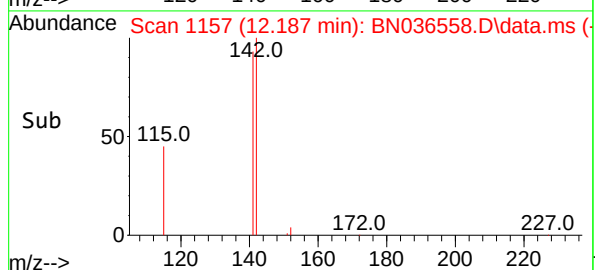
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

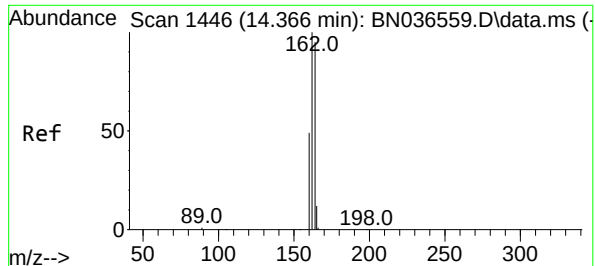


#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18



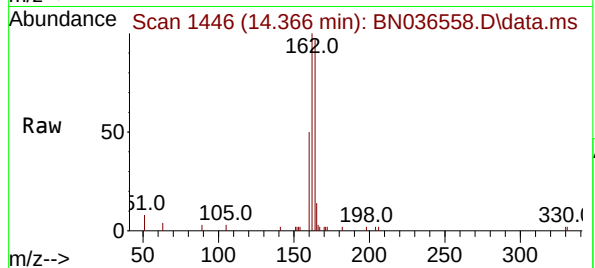
Tgt Ion:142 Resp: 2034
Ion Ratio Lower Upper
142 100
141 92.5 71.7 107.5
115 49.7 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

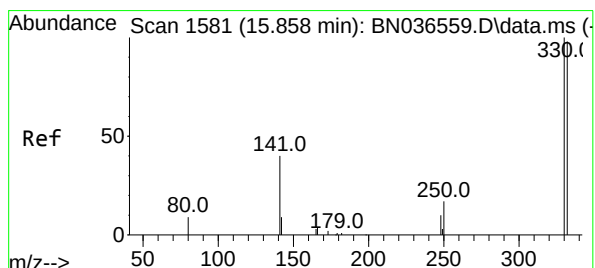
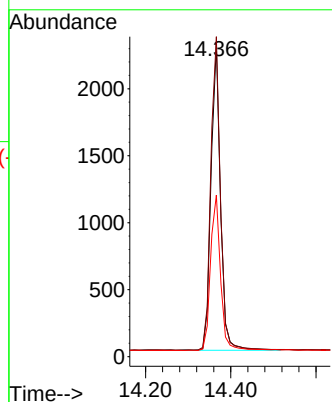
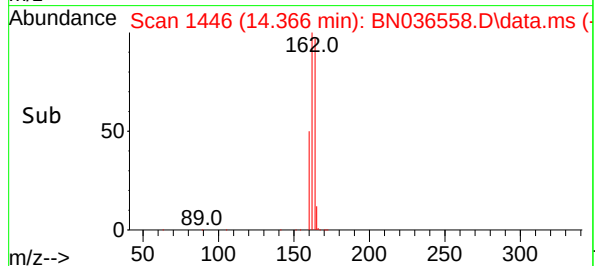
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



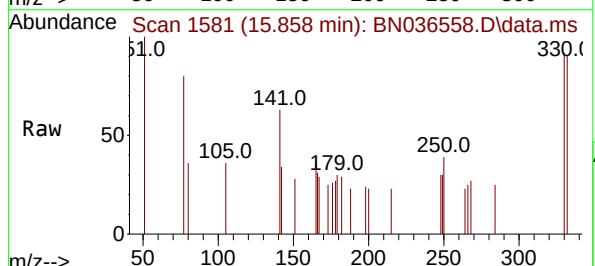
Tgt Ion:164 Resp: 3510
Ion Ratio Lower Upper
164 100
162 102.6 84.2 126.2
160 51.8 42.2 63.2

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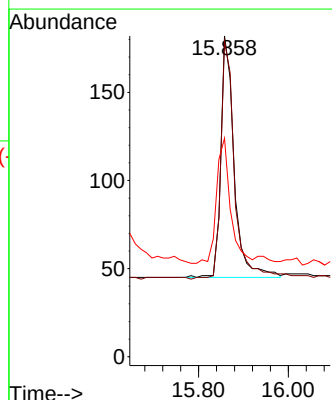
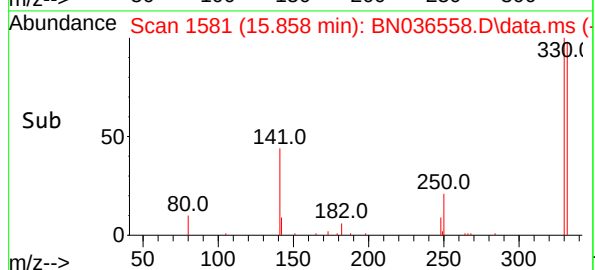
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

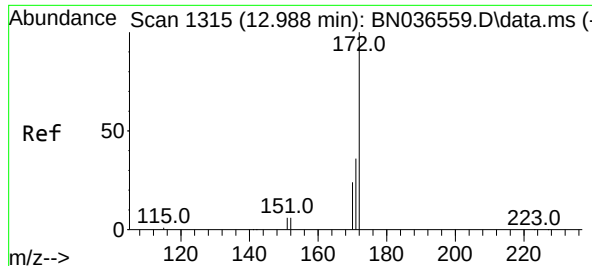


#14
2,4,6-Tribromophenol
Concen: 0.177 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18



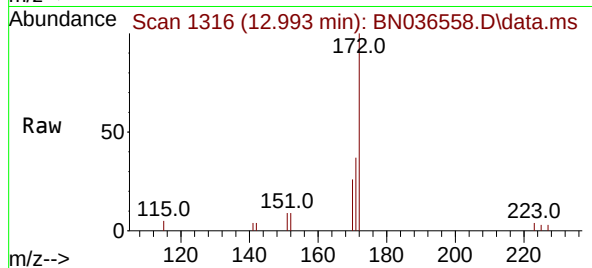
Tgt Ion:330 Resp: 282
Ion Ratio Lower Upper
330 100
332 103.5 75.2 112.8
141 53.9 43.4 65.2





#15
2-Fluorobiphenyl
Concen: 0.170 ng
RT: 12.993 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

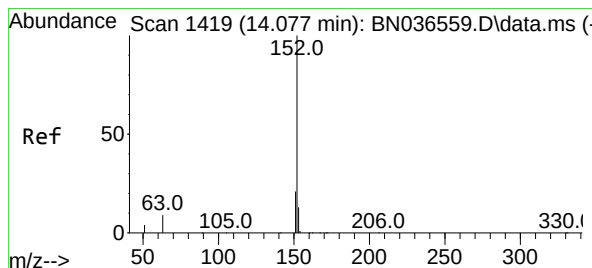
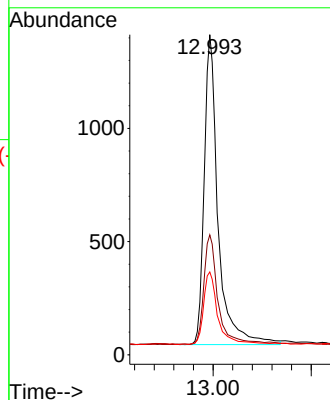
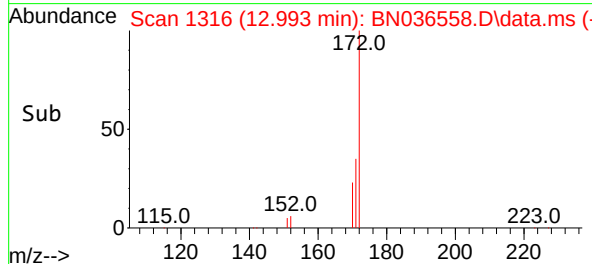
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:172 Resp: 348
Ion Ratio Lower Upper
172 100
171 37.5 29.5 44.3
170 25.9 20.2 30.4

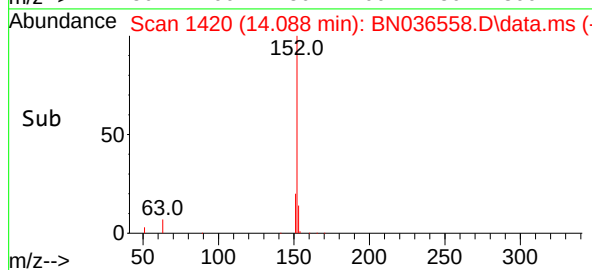
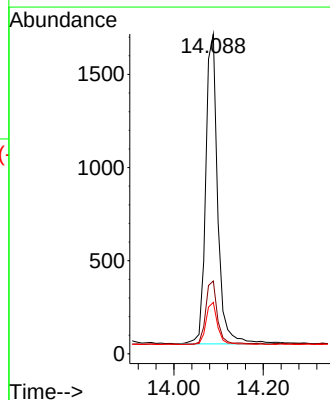
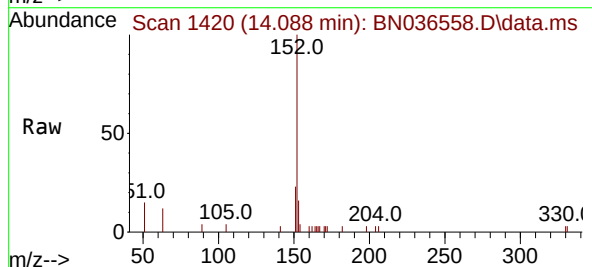
Manual Integrations
APPROVED

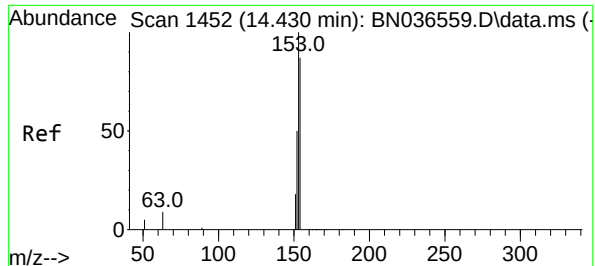
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#16
Acenaphthylene
Concen: 0.186 ng
RT: 14.088 min Scan# 1420
Delta R.T. 0.011 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:152 Resp: 3087
Ion Ratio Lower Upper
152 100
151 20.4 16.2 24.4
153 13.0 10.6 15.8





#17

Acenaphthene

Concen: 0.188 ng

RT: 14.430 min Scan# 1452

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

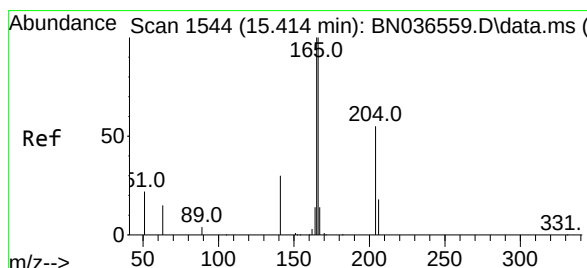
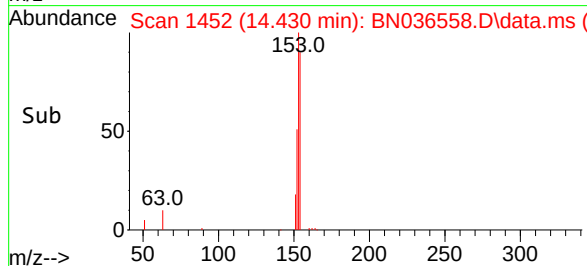
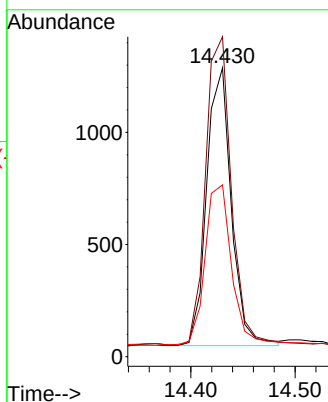
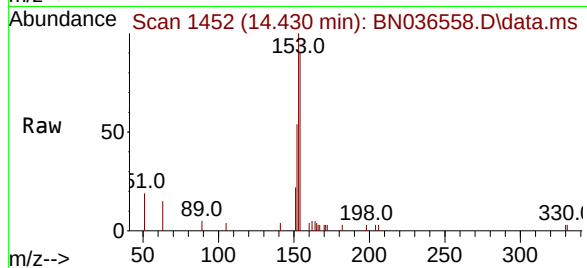
SSTDICC0.2

Tgt Ion:	154	Resp:	2038
Ion	Ratio	Lower	Upper
154	100		
153	117.8	94.1	141.1
152	63.1	49.8	74.6

Manual Integrations

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Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#18

Fluorene

Concen: 0.191 ng

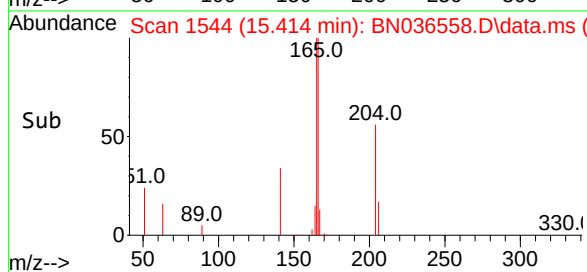
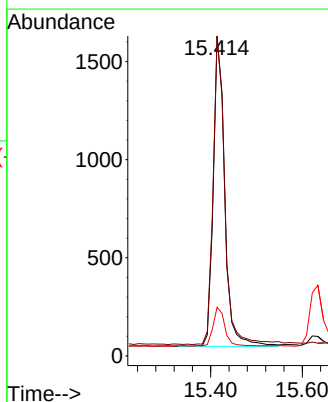
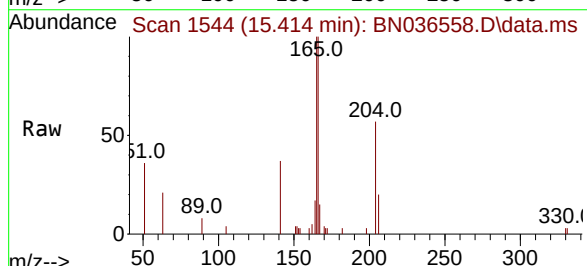
RT: 15.414 min Scan# 1544

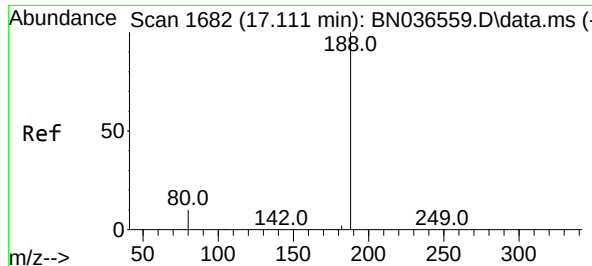
Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Tgt Ion:	166	Resp:	2813
Ion	Ratio	Lower	Upper
166	100		
165	101.1	79.8	119.8
167	12.6	10.6	15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

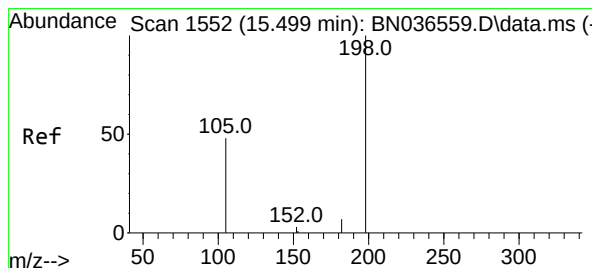
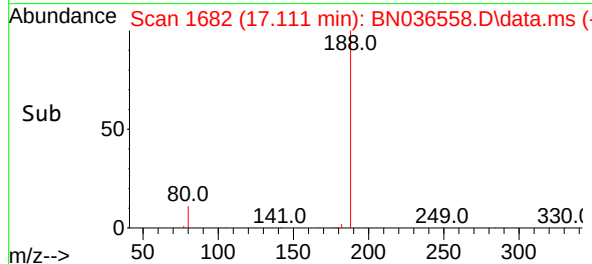
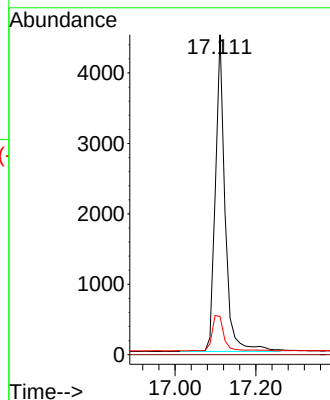
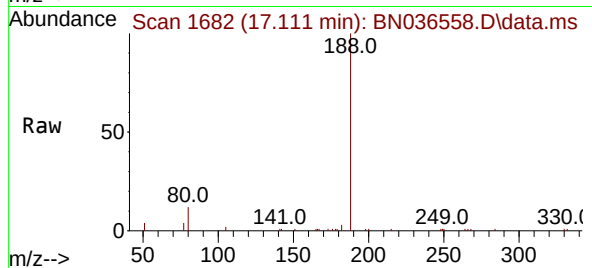
Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.9	8.8	13.2

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Supervised By :Jagrut Upadhyay 03/11/2025

#20

4,6-Dinitro-2-methylphenol

Concen: 0.258 ng

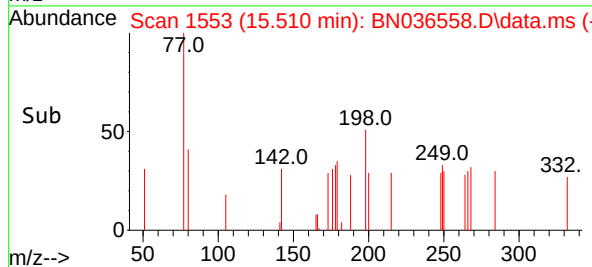
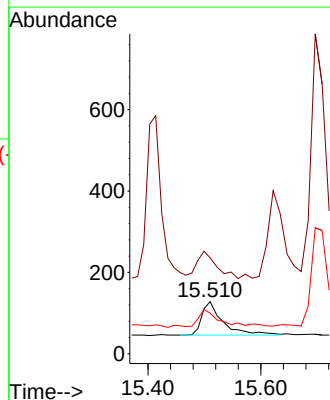
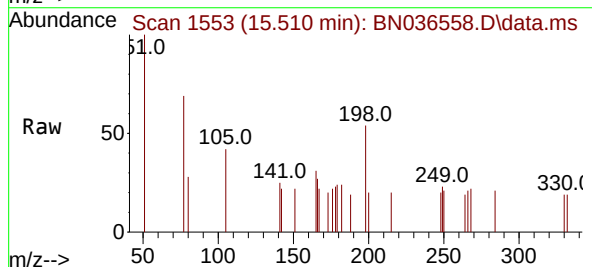
RT: 15.510 min Scan# 1553

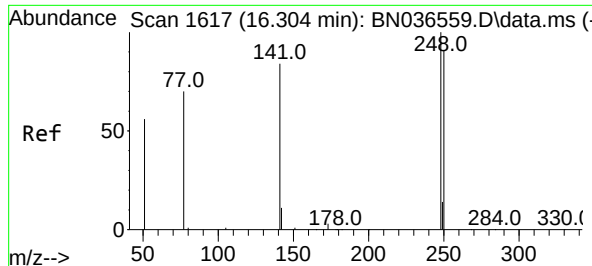
Delta R.T. 0.011 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

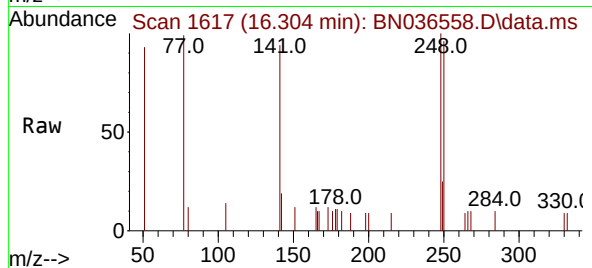
Tgt Ion	Ratio	Lower	Upper
198	100		
51	184.4	107.9	161.9#
105	78.1	56.2	84.2





#21
4-Bromophenyl-phenylether
Concen: 0.181 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

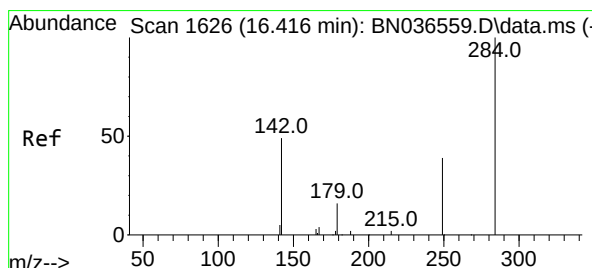
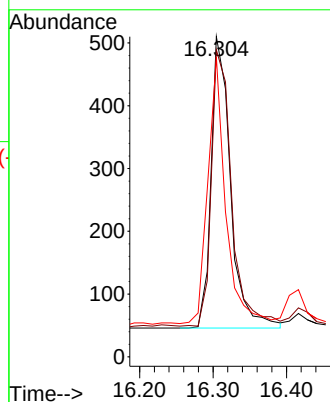
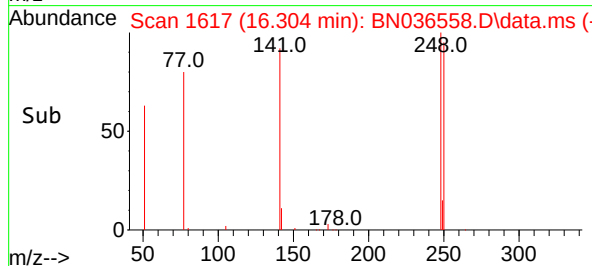
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:248 Resp: 85
Ion Ratio Lower Upper
248 100
250 95.9 73.0 109.6
141 93.7 68.6 103.0

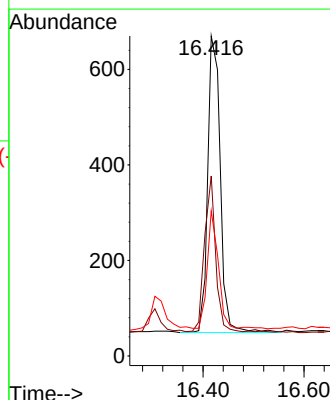
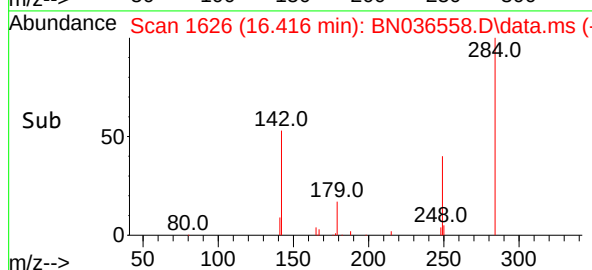
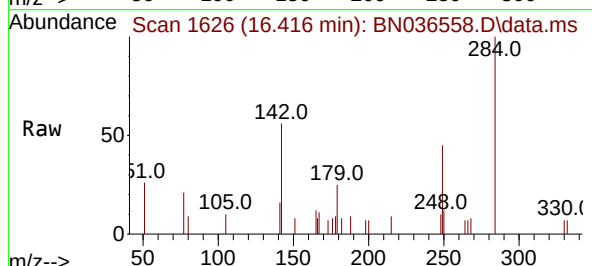
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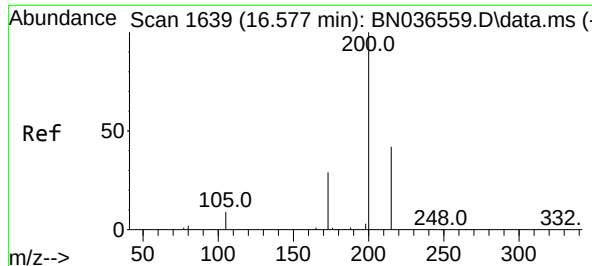
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#22
Hexachlorobenzene
Concen: 0.190 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

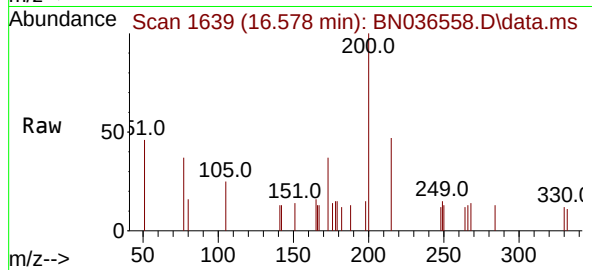
Tgt Ion:284 Resp: 1079
Ion Ratio Lower Upper
284 100
142 47.0 37.0 55.4
249 34.8 28.1 42.1





#23
Atrazine
Concen: 0.190 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

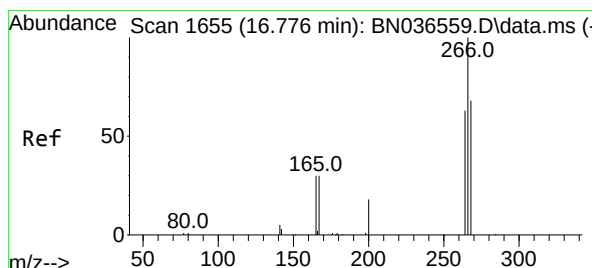
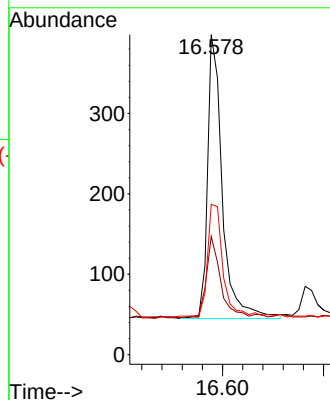
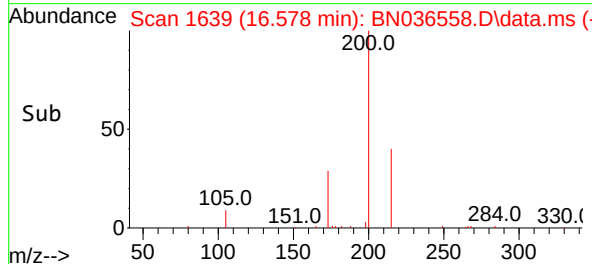
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:200 Resp: 710
Ion Ratio Lower Upper
200 100
173 36.9 27.3 40.9
215 47.0 36.8 55.2

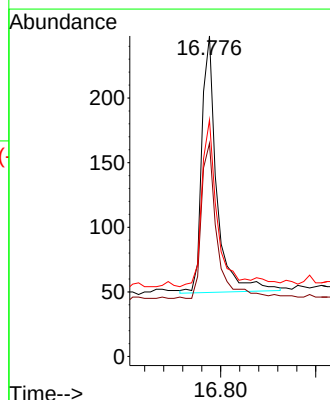
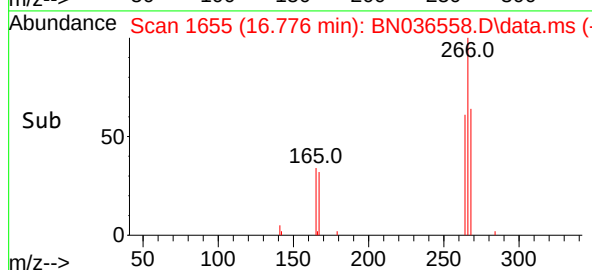
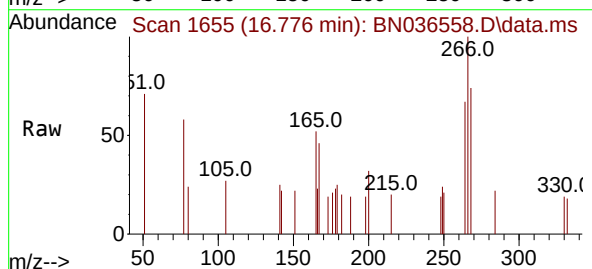
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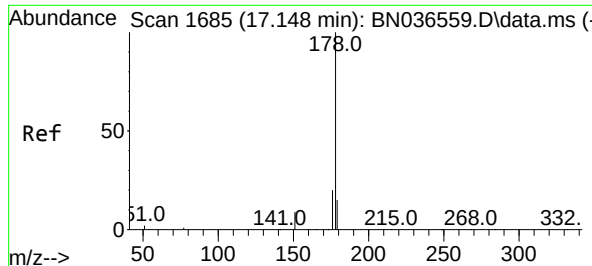
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#24
Pentachlorophenol
Concen: 0.168 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

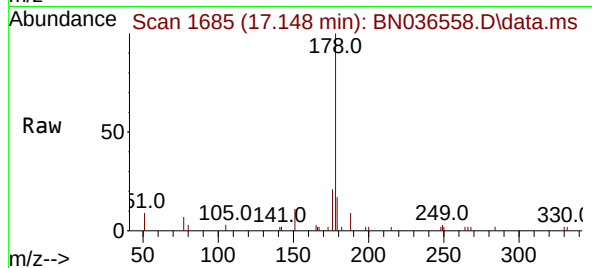
Tgt Ion:266 Resp: 435
Ion Ratio Lower Upper
266 100
264 63.4 49.6 74.4
268 65.7 50.9 76.3





#25
Phenanthrene
Concen: 0.185 ng
RT: 17.148 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

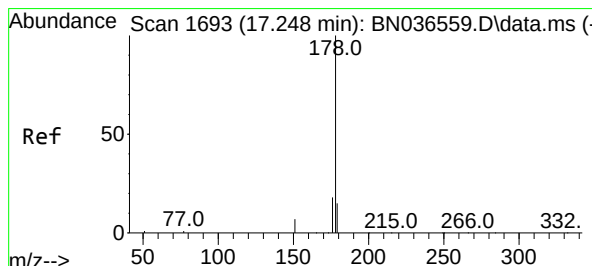
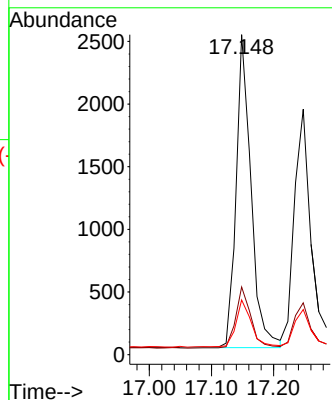
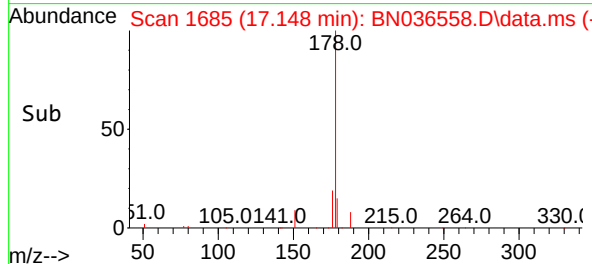
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:178 Resp: 417
Ion Ratio Lower Upper
178 100
176 20.0 15.9 23.9
179 15.5 12.2 18.4

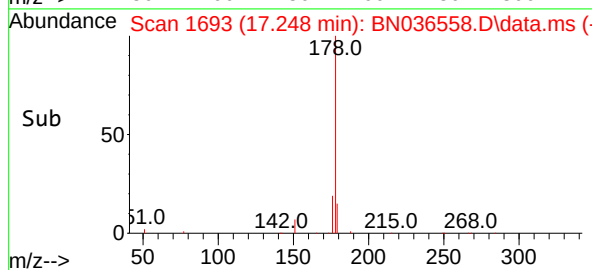
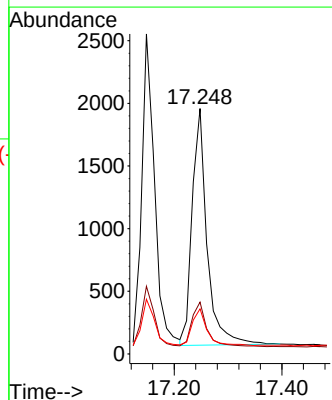
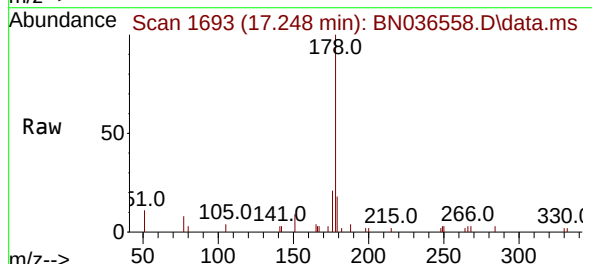
Manual Integrations
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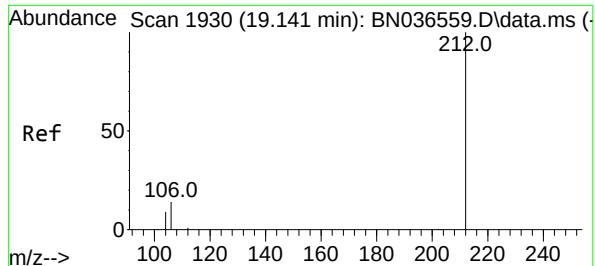
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#26
Anthracene
Concen: 0.179 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:178 Resp: 3645
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 15.1 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.186 ng

RT: 19.146 min Scan# 1930

Delta R.T. 0.005 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

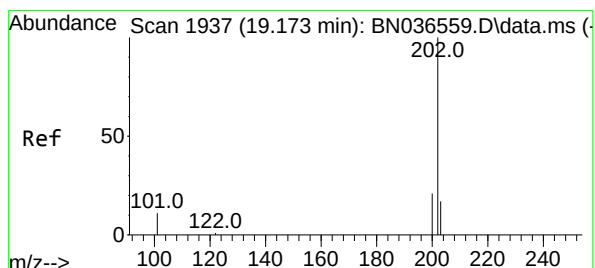
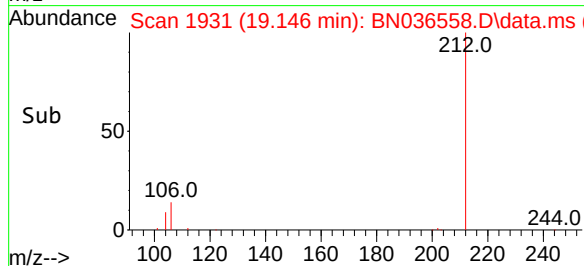
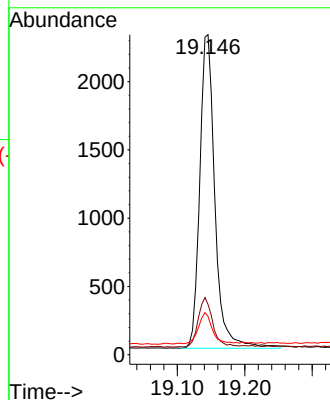
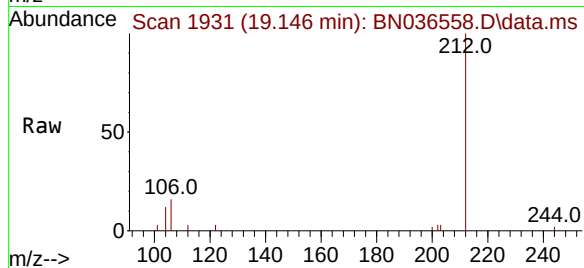
ClientSampleId :

SSTDIC0.2

Tgt Ion:	212	Resp:	358
Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.8	17.6
104	9.3	7.3	10.9

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#28

Fluoranthene

Concen: 0.184 ng

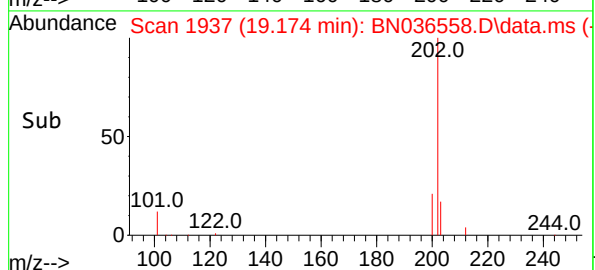
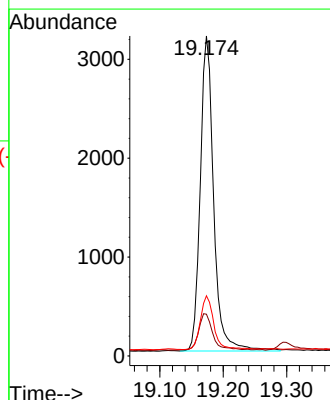
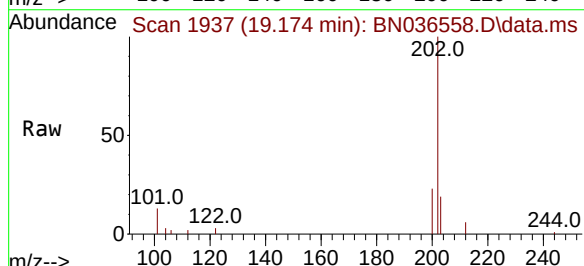
RT: 19.174 min Scan# 1937

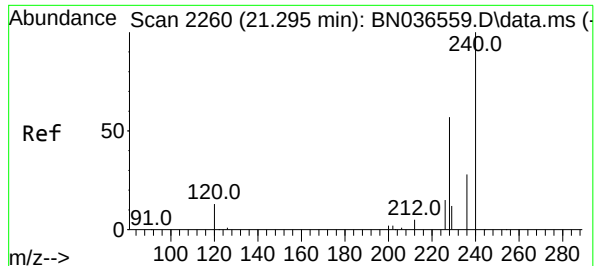
Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Tgt Ion:	202	Resp:	4666
Ion	Ratio	Lower	Upper
202	100		
101	12.1	9.4	14.0
203	17.1	13.5	20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

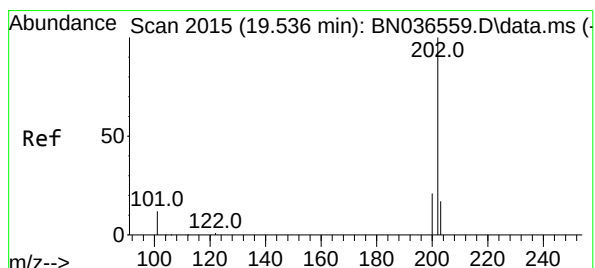
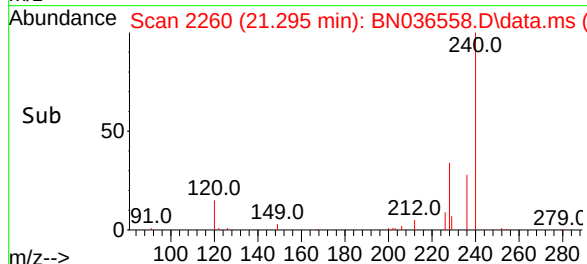
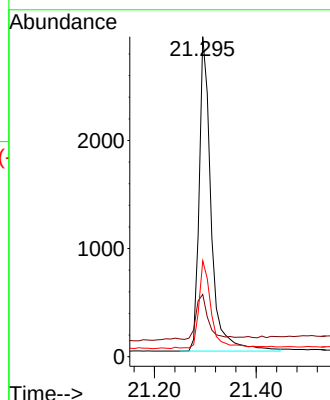
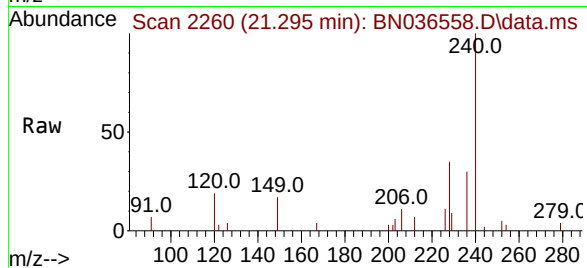
SSTDICC0.2

Tgt Ion:240	Resp:	4730
Ion Ratio	Lower	Upper
240	100	
120	19.5	14.6 22.0
236	29.9	24.1 36.1

Manual Integrations

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Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#30

Pyrene

Concen: 0.205 ng

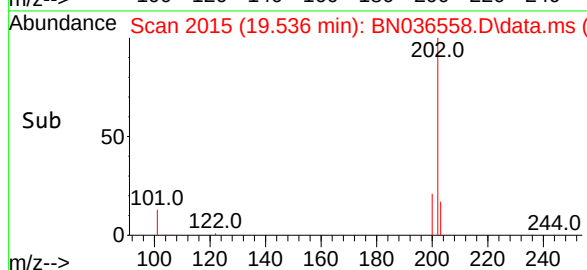
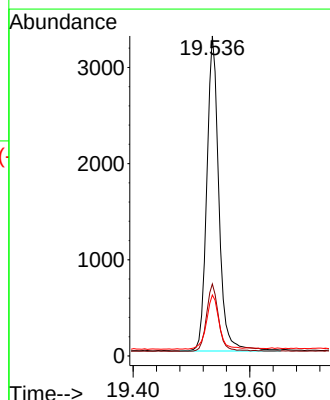
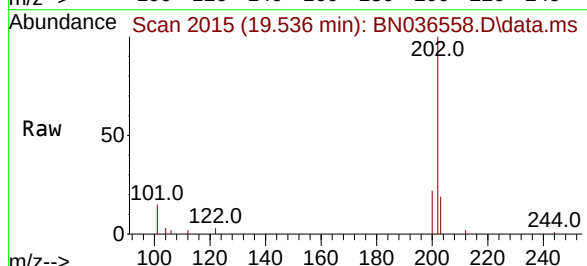
RT: 19.536 min Scan# 2015

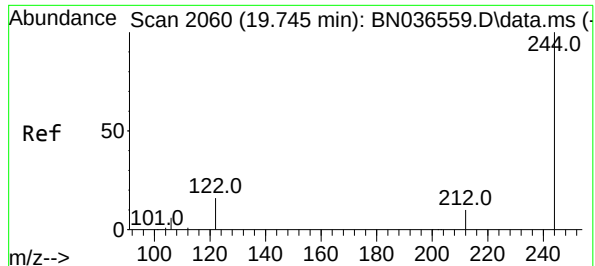
Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Tgt Ion:202	Resp:	4742
Ion Ratio	Lower	Upper
202	100	
200	21.1	17.1 25.7
203	17.7	14.1 21.1





#31
Terphenyl-d14
Concen: 0.201 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

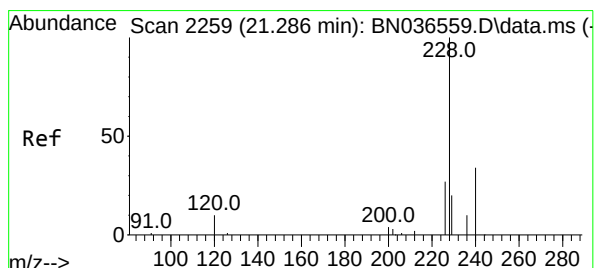
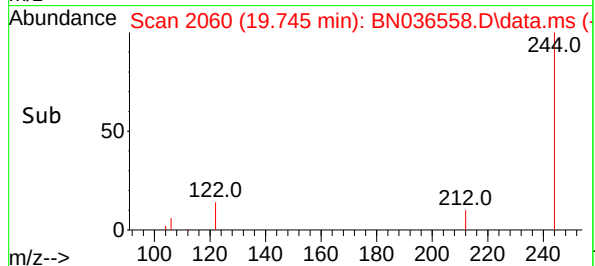
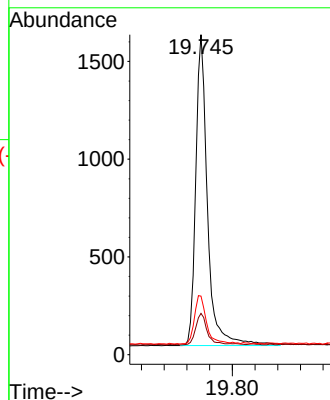
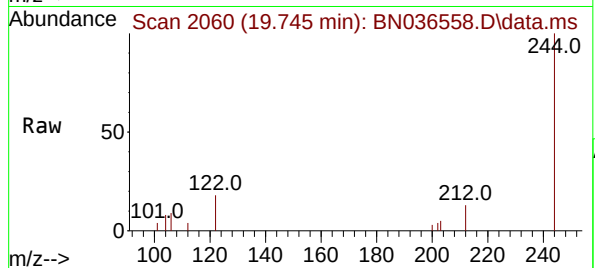
ClientSampleId :

SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.9	9.6	14.4
122	18.3	13.9	20.9

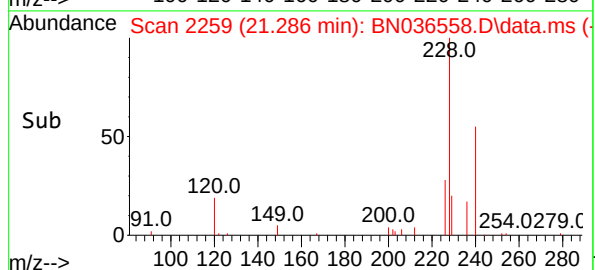
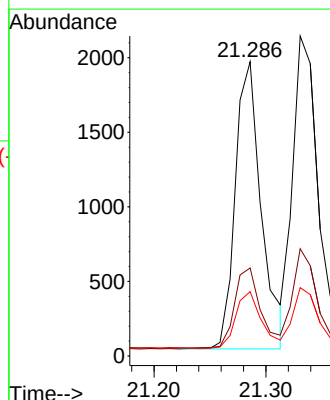
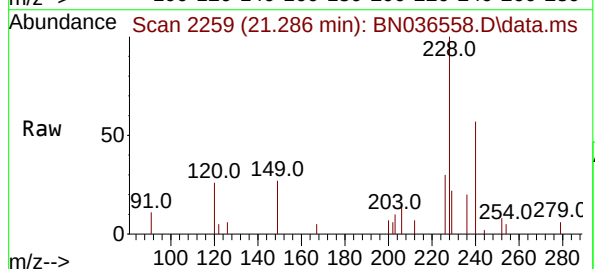
Manual Integrations
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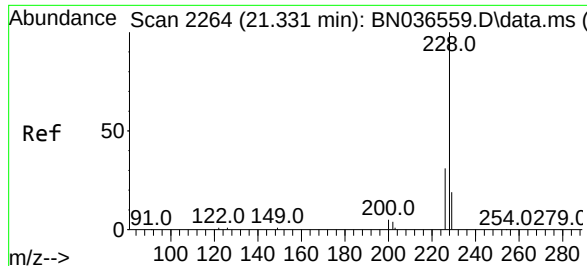
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#32
Benzo(a)anthracene
Concen: 0.189 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.9	22.5	33.7
229	21.9	16.6	25.0





#33

Chrysene

Concen: 0.199 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

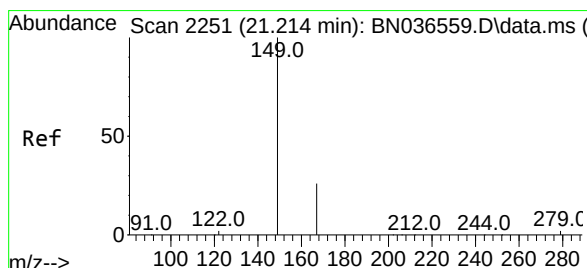
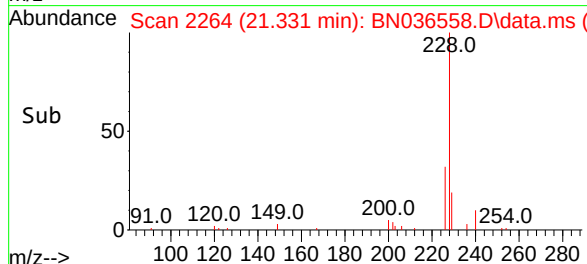
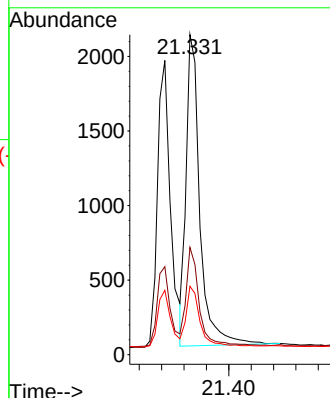
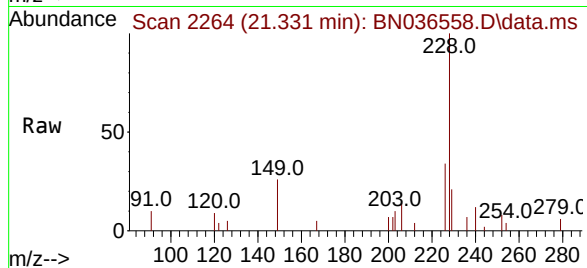
Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:	228	Resp:	356
Ion Ratio	Lower	Upper	
228	100		
226	33.5	25.3	37.9
229	21.4	15.8	23.8

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

#34

Bis(2-ethylhexyl)phthalate

Concen: 0.222 ng

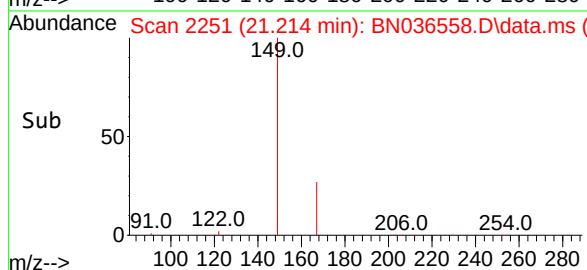
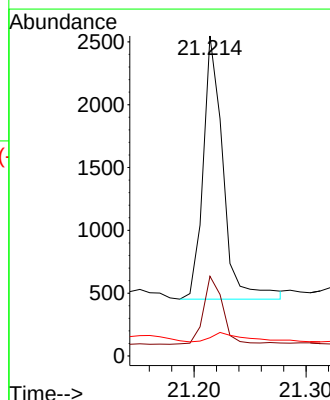
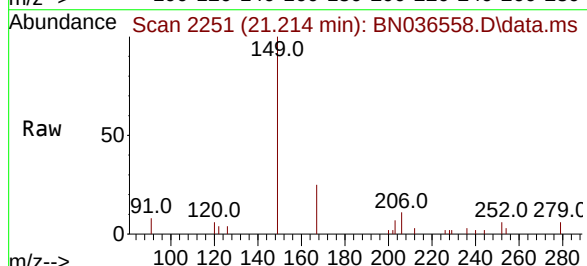
RT: 21.214 min Scan# 2251

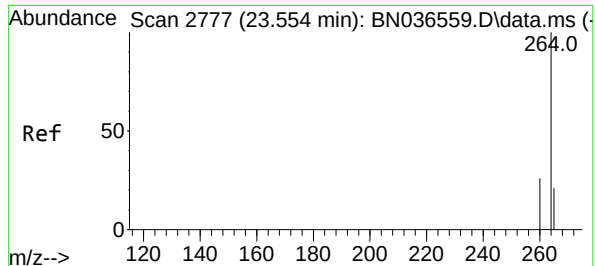
Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Tgt Ion:	149	Resp:	2601
Ion Ratio	Lower	Upper	
149	100		
167	24.7	20.7	31.1
279	5.7	3.6	5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

Tgt Ion:264 Resp: 424

Ion Ratio Lower Upper

264 100

260 26.8 22.6 33.8

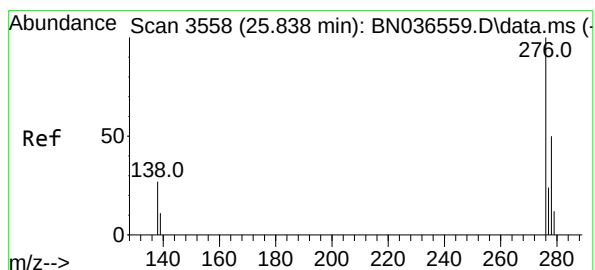
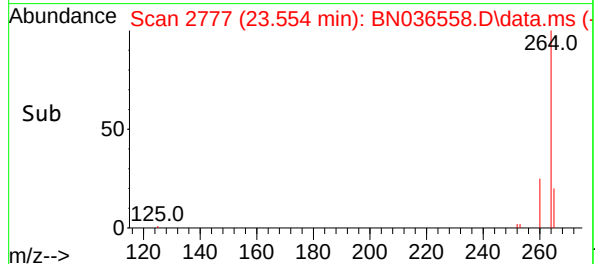
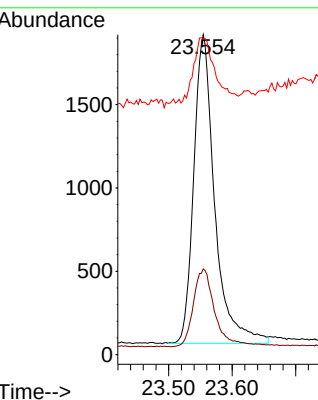
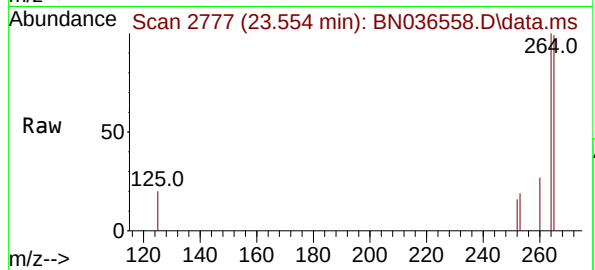
265 98.5 88.1 132.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.182 ng

RT: 25.844 min Scan# 3560

Delta R.T. 0.006 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

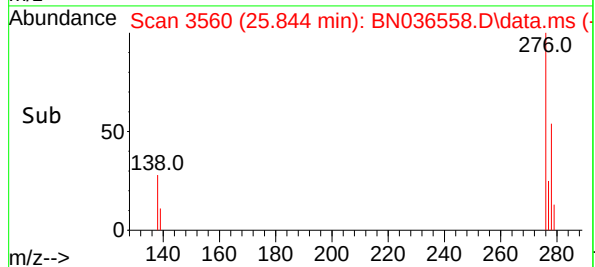
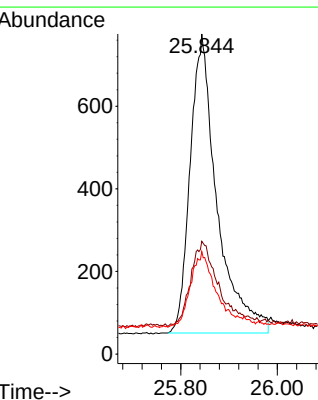
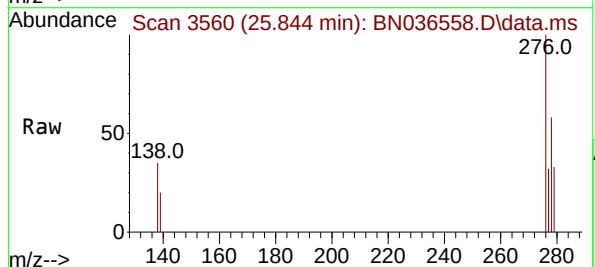
Tgt Ion:276 Resp: 2790

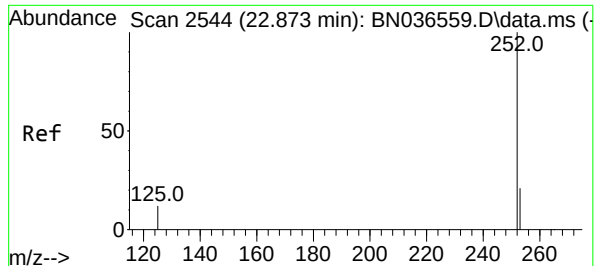
Ion Ratio Lower Upper

276 100

138 29.1 23.4 35.2

277 23.4 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.187 ng

RT: 22.876 min Scan# 2544

Delta R.T. 0.003 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

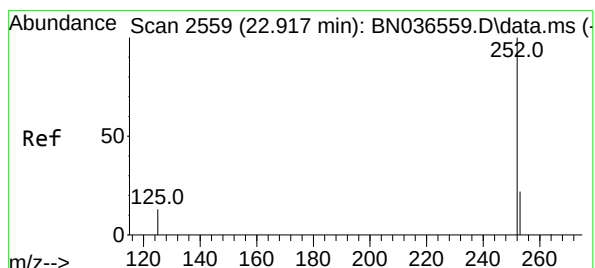
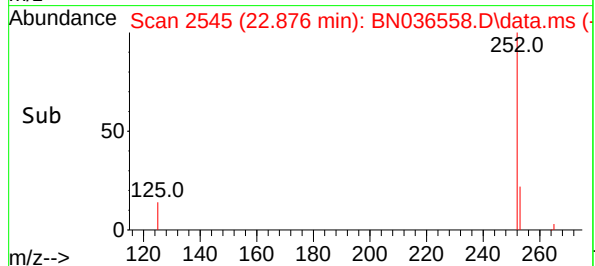
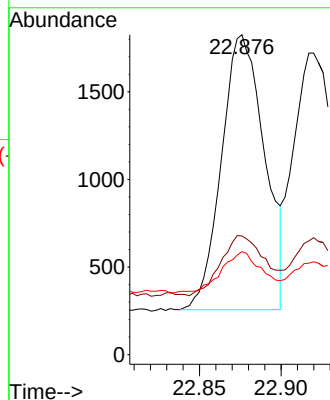
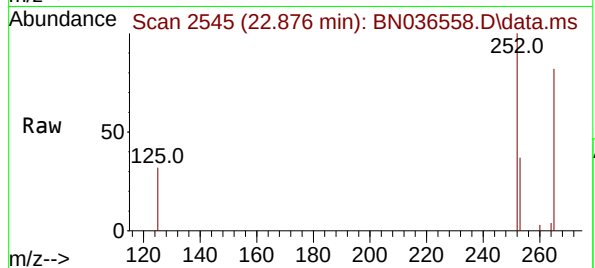
SSTDICC0.2

Tgt Ion:	252	Resp:	288
Ion Ratio	Lower	Upper	
252	100		
253	37.1	23.9	35.9
125	32.2	17.4	26.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#38

Benzo(k)fluoranthene

Concen: 0.183 ng

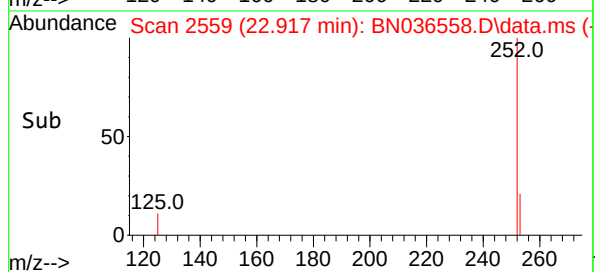
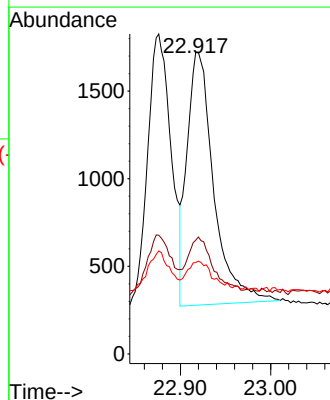
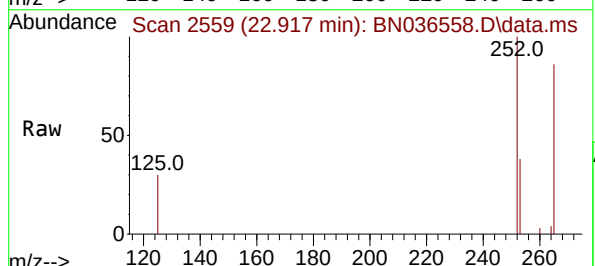
RT: 22.917 min Scan# 2559

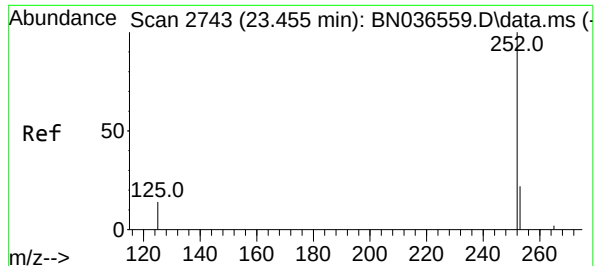
Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Tgt Ion:	252	Resp:	2962
Ion Ratio	Lower	Upper	
252	100		
253	37.7	24.6	36.8
125	30.3	17.8	26.8





#39

Benzo(a)pyrene

Concen: 0.188 ng

RT: 23.458 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

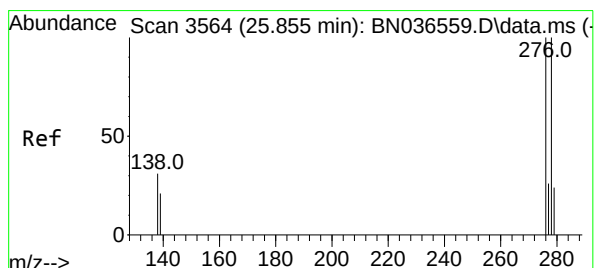
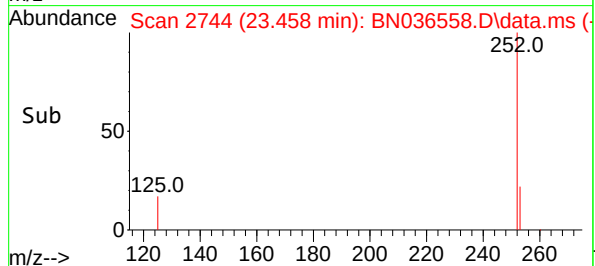
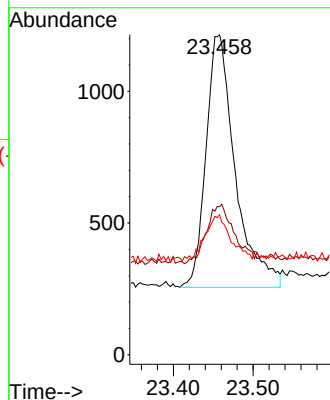
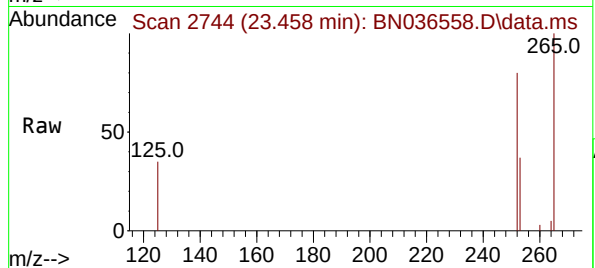
Tgt Ion:	252	Resp:	244
Ion Ratio	Lower	Upper	
252	100		
253	46.3	27.8	41.8
125	43.7	22.7	34.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.175 ng

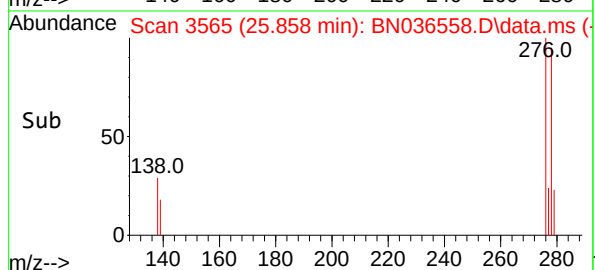
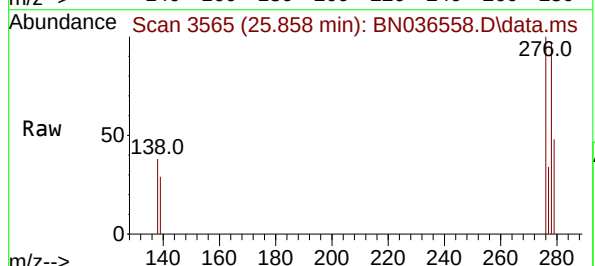
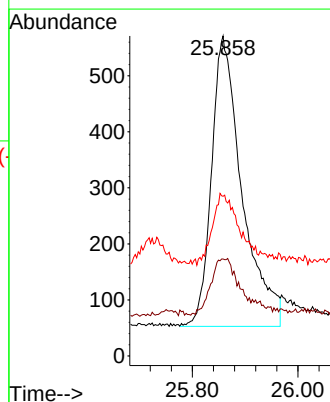
RT: 25.858 min Scan# 3565

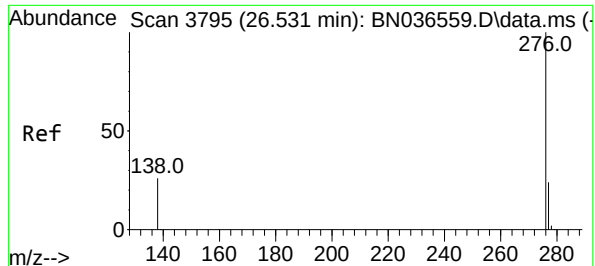
Delta R.T. 0.003 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Tgt Ion:	278	Resp:	2080
Ion Ratio	Lower	Upper	
278	100		
139	30.3	20.8	31.2
279	49.9	28.8	43.2





#41

Benzo(g,h,i)perylene

Concen: 0.189 ng

RT: 26.536 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN036558.D

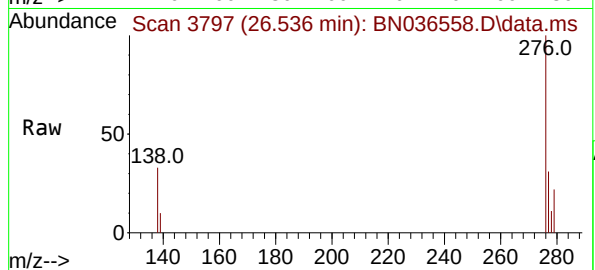
Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion: 276 Resp: 257

Ion Ratio Lower Upper

276 100

277 31.2 22.2 33.4

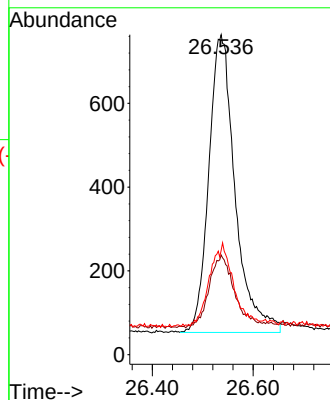
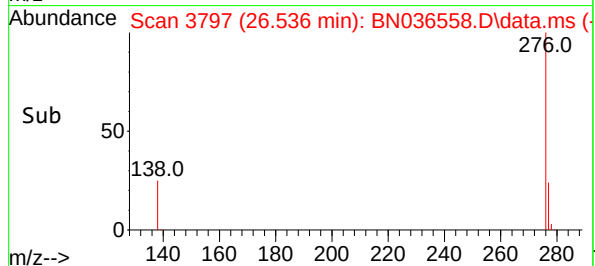
138 32.6 24.1 36.1

Manual Integrations

APPROVED

Reviewed By : Anahy Claudio 03/11/2025

Supervised By : Jagrut Upadhyay 03/11/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036559.D
 Acq On : 10 Mar 2025 12:54
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Mar 10 16:01:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

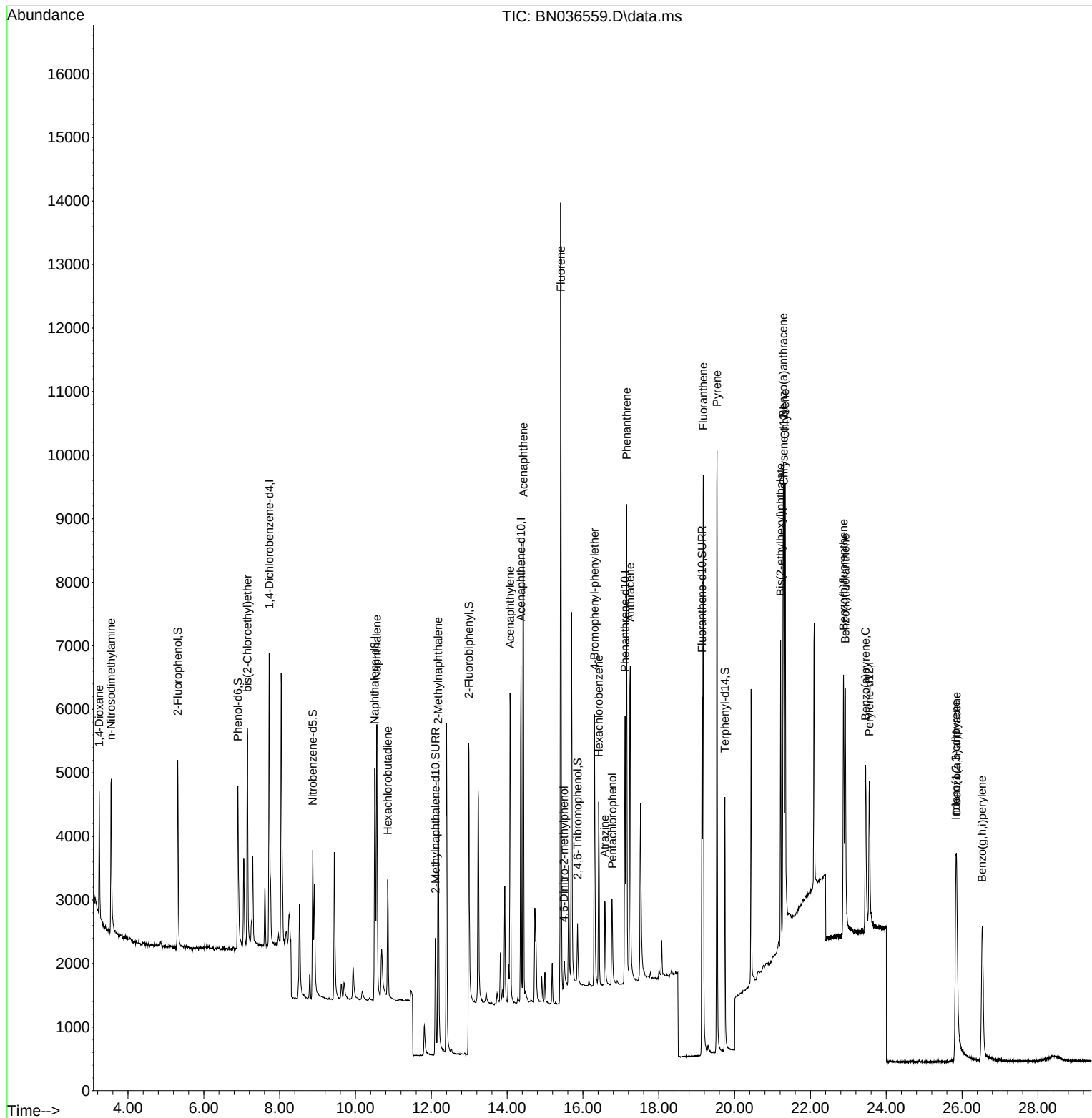
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2207	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5091	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3026	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	6005	0.400	ng	0.00
29) Chrysene-d12	21.295	240	4110	0.400	ng	0.00
35) Perylene-d12	23.554	264	3539	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	2178	0.423	ng	0.00
5) Phenol-d6	6.901	99	2489	0.392	ng	0.00
8) Nitrobenzene-d5	8.875	82	2113	0.382	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	3085	0.407	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	567	0.413	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	7257	0.412	ng	0.00
27) Fluoranthene-d10	19.141	212	6699	0.435	ng	0.00
31) Terphenyl-d14	19.745	244	4226	0.429	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.239	88	1099	0.449	ng	100
3) n-Nitrosodimethylamine	3.550	42	2063	0.417	ng	100
6) bis(2-Chloroethyl)ether	7.154	93	2610	0.397	ng	100
9) Naphthalene	10.562	128	6139	0.410	ng	100
10) Hexachlorobutadiene	10.850	225	1498	0.425	ng	# 100
12) 2-Methylnaphthalene	12.182	142	3897	0.409	ng	100
16) Acenaphthylene	14.077	152	5865	0.411	ng	100
17) Acenaphthene	14.430	154	3877	0.415	ng	100
18) Fluorene	15.414	166	5338	0.422	ng	100
20) 4,6-Dinitro-2-methylph...	15.499	198	462	0.447	ng	100
21) 4-Bromophenyl-phenylether	16.304	248	1644	0.437	ng	100
22) Hexachlorobenzene	16.416	284	2018	0.444	ng	100
23) Atrazine	16.577	200	1279	0.424	ng	100
24) Pentachlorophenol	16.776	266	821	0.396	ng	100
25) Phenanthrene	17.148	178	7786	0.432	ng	100
26) Anthracene	17.248	178	6886	0.424	ng	100
28) Fluoranthene	19.173	202	8717	0.431	ng	100
30) Pyrene	19.536	202	8759	0.436	ng	100
32) Benzo(a)anthracene	21.286	228	5908	0.413	ng	100
33) Chrysene	21.331	228	6617	0.424	ng	100
34) Bis(2-ethylhexyl)phtha...	21.214	149	4291	0.422	ng	100
36) Indeno(1,2,3-cd)pyrene	25.838	276	5470	0.428	ng	100
37) Benzo(b)fluoranthene	22.873	252	5475	0.425	ng	100
38) Benzo(k)fluoranthene	22.917	252	5732	0.424	ng	100
39) Benzo(a)pyrene	23.455	252	4612	0.425	ng	100
40) Dibenzo(a,h)anthracene	25.855	278	4117	0.414	ng	100
41) Benzo(g,h,i)perylene	26.531	276	4891	0.430	ng	100

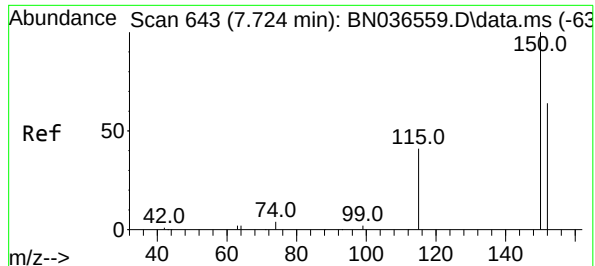
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036559.D
Acq On : 10 Mar 2025 12:54
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Mar 10 16:01:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

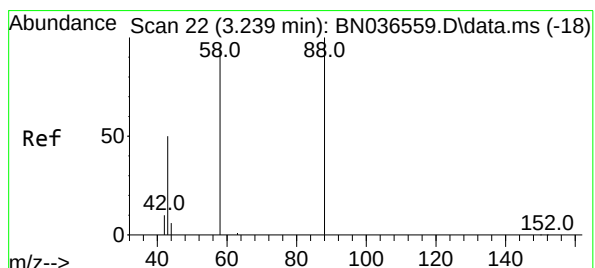
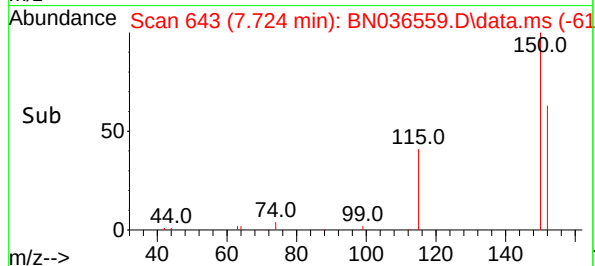
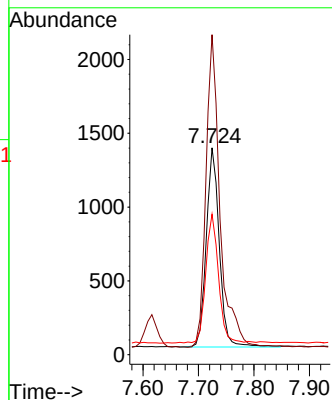
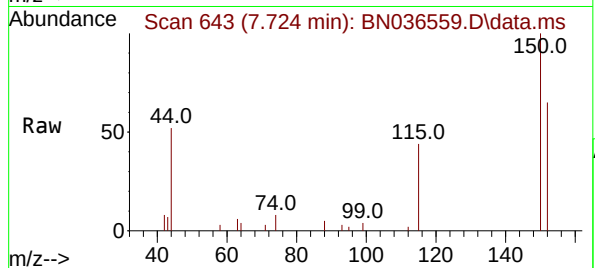




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

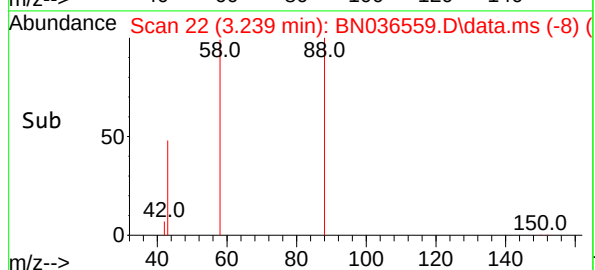
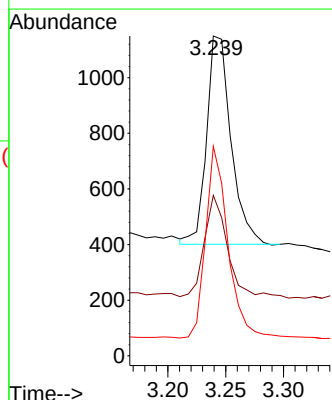
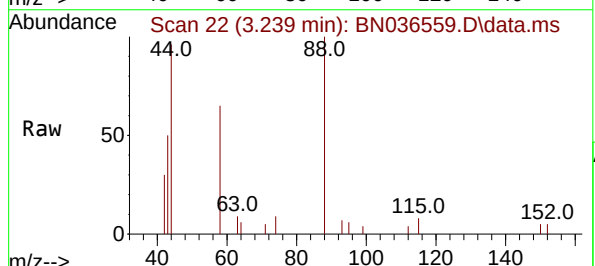
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

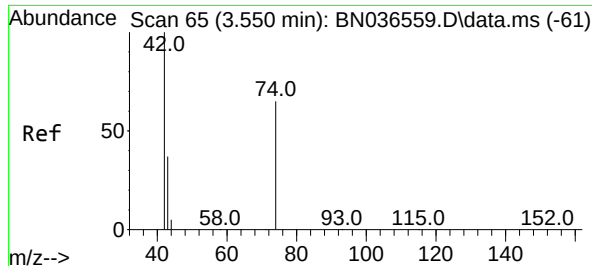
Tgt Ion:152 Resp: 2207
Ion Ratio Lower Upper
152 100
150 154.6 123.7 185.5
115 67.9 54.3 81.5



#2
1,4-Dioxane
Concen: 0.449 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion: 88 Resp: 1099
Ion Ratio Lower Upper
88 100
43 47.3 37.8 56.8
58 84.3 67.4 101.2

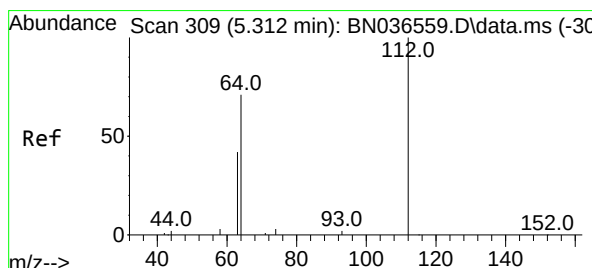
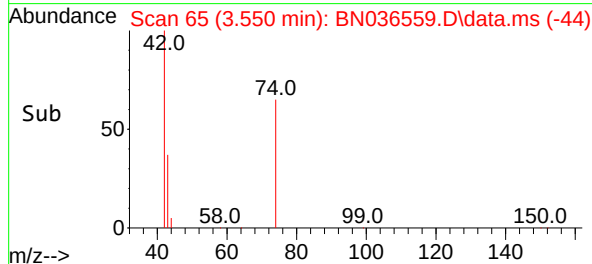
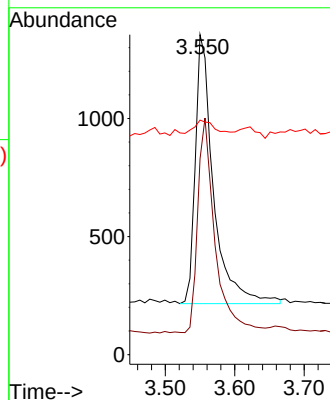
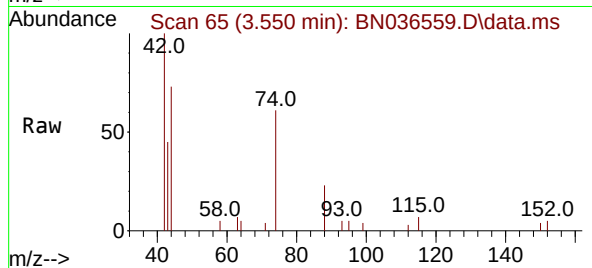




#3
n-Nitrosodimethylamine
Concen: 0.417 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

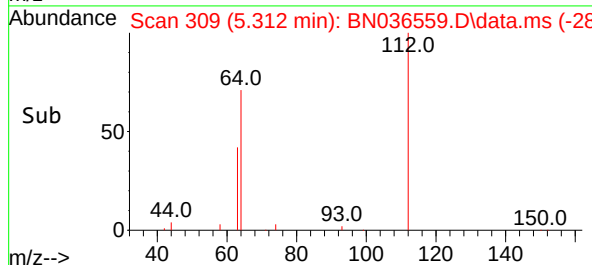
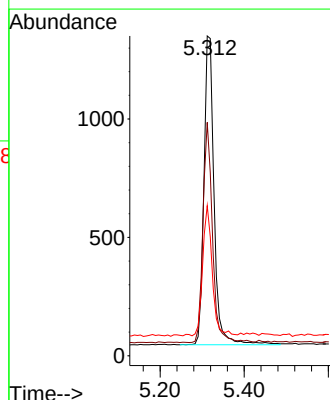
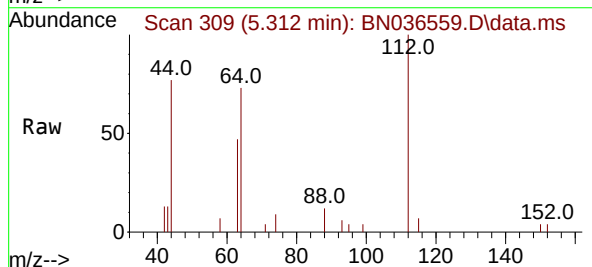
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

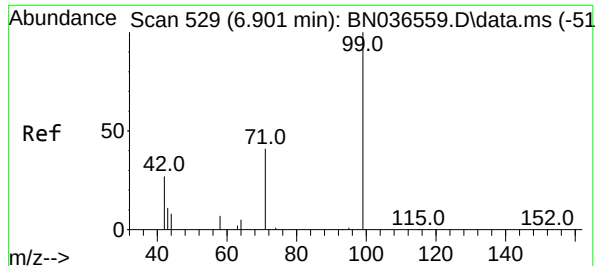
Tgt Ion: 42 Resp: 2063
Ion Ratio Lower Upper
42 100
74 75.7 60.6 90.8
44 7.9 6.3 9.5



#4
2-Fluorophenol
Concen: 0.423 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion: 112 Resp: 2178
Ion Ratio Lower Upper
112 100
64 66.4 53.1 79.7
63 39.8 31.8 47.8

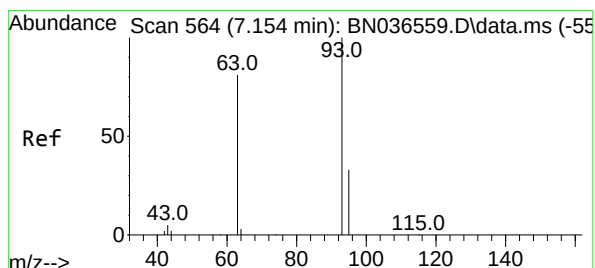
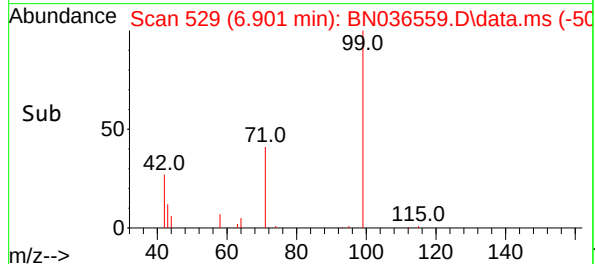
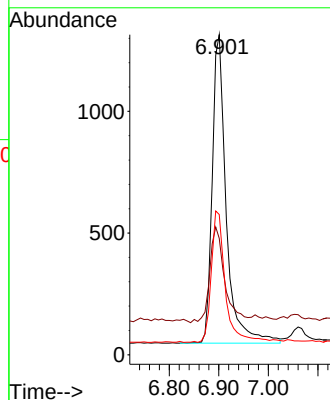
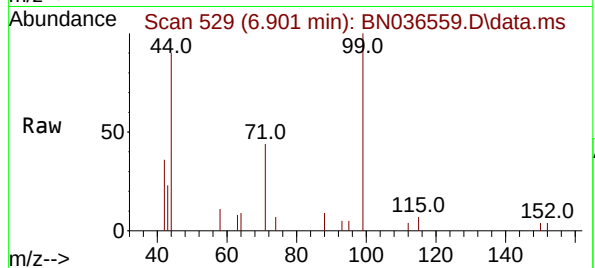




#5
Phenol-d6
Concen: 0.392 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

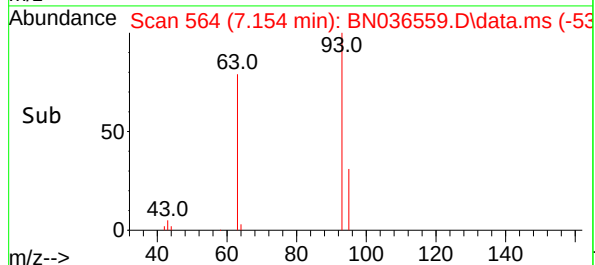
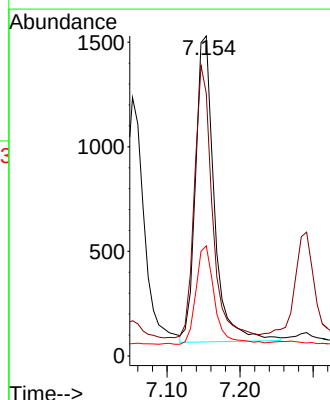
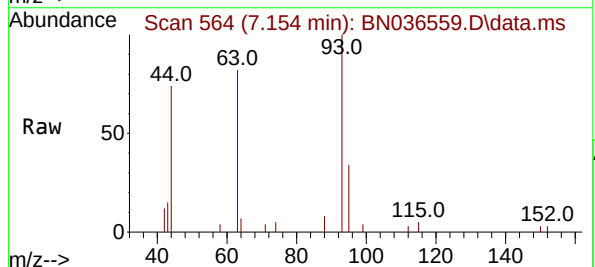
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

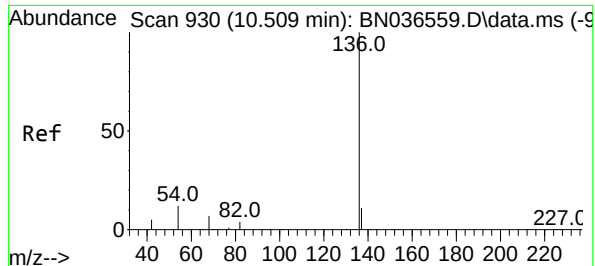
Tgt Ion: 99 Resp: 2489
Ion Ratio Lower Upper
99 100
42 33.1 26.5 39.7
71 42.6 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.397 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion: 93 Resp: 2610
Ion Ratio Lower Upper
93 100
63 84.6 67.7 101.5
95 32.0 25.6 38.4

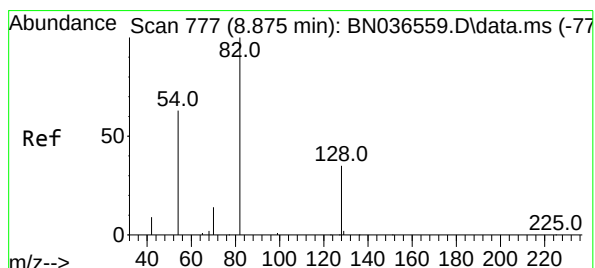
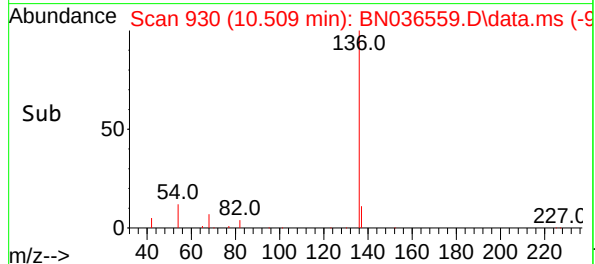
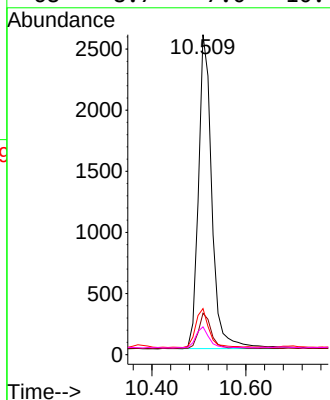
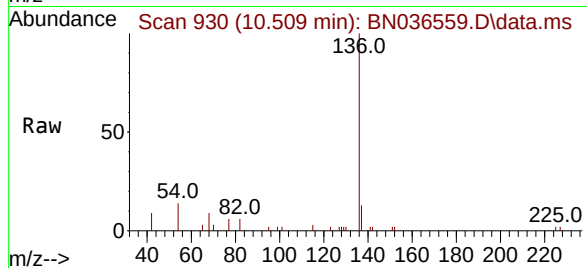




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

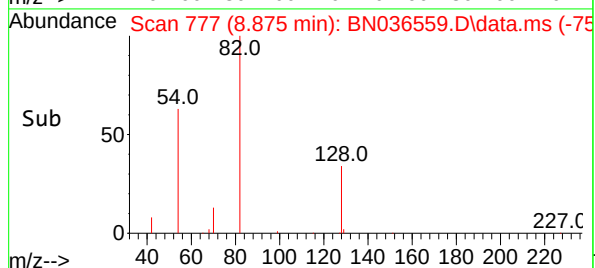
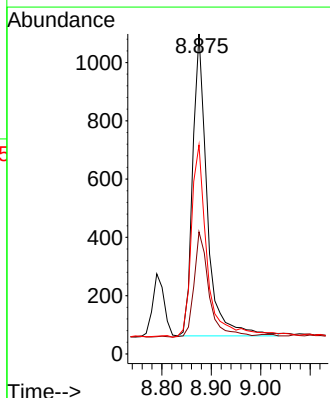
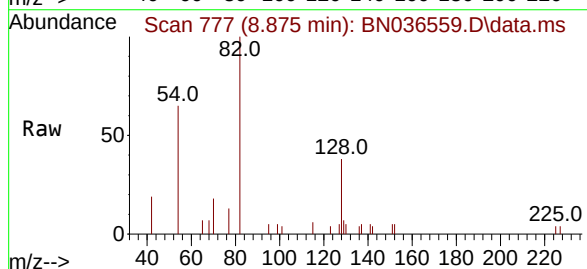
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

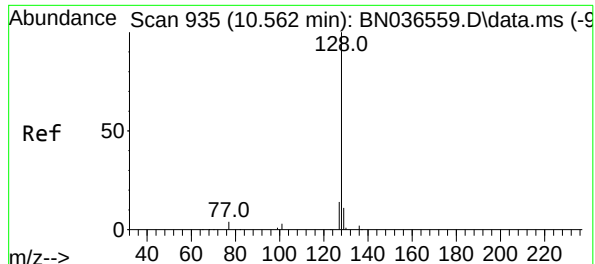
Tgt Ion:	136	Resp:	5091
Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.3	15.5
54	14.4	11.5	17.3
68	8.7	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.382 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:	82	Resp:	2113
Ion	Ratio	Lower	Upper
82	100		
128	38.2	30.6	45.8
54	65.3	52.2	78.4

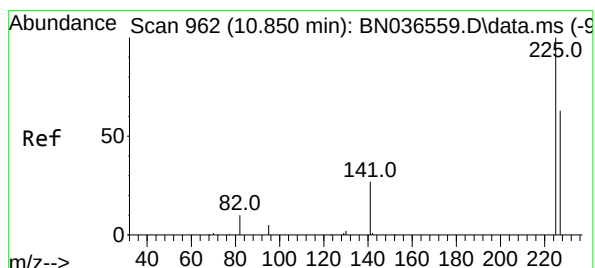
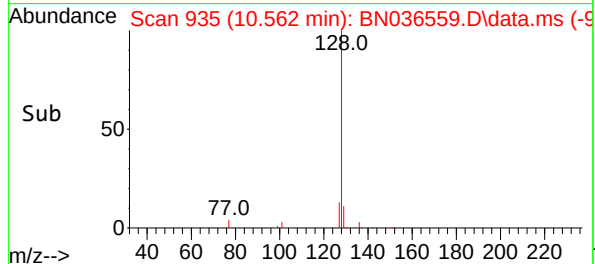
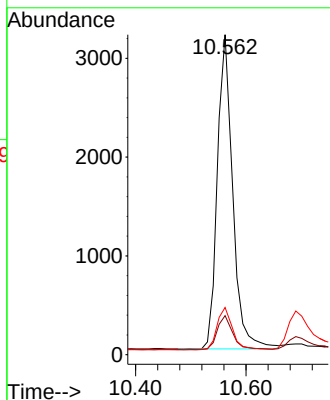
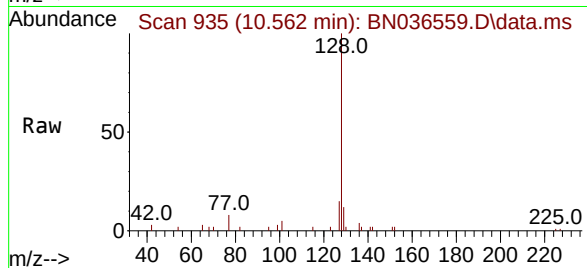




#9
Naphthalene
Concen: 0.410 ng
RT: 10.562 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

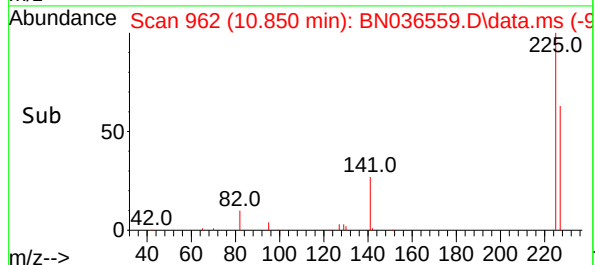
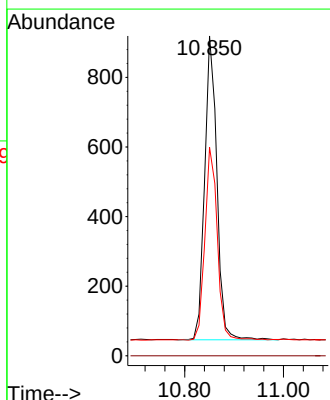
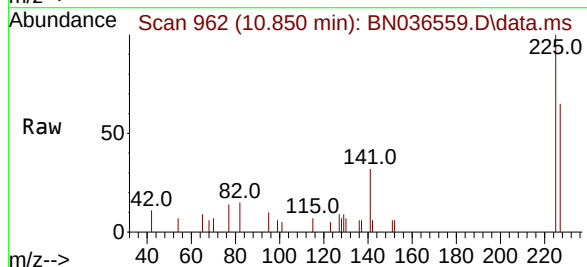
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

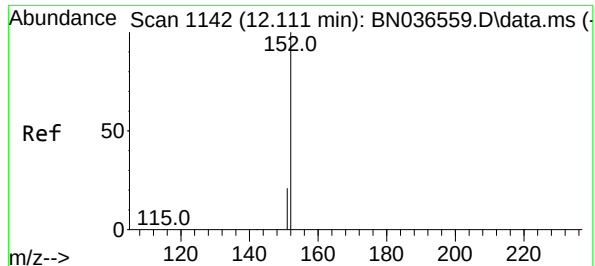
Tgt Ion:128 Resp: 6139
Ion Ratio Lower Upper
128 100
129 12.2 9.8 14.6
127 14.8 11.8 17.8



#10
Hexachlorobutadiene
Concen: 0.425 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:225 Resp: 1498
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.8 51.8 77.8

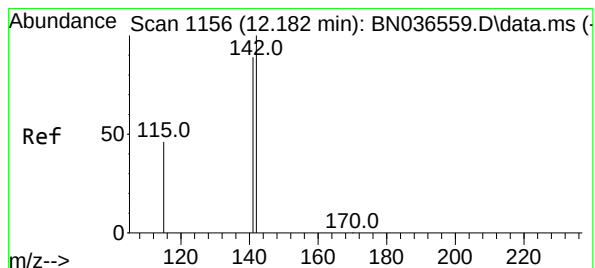
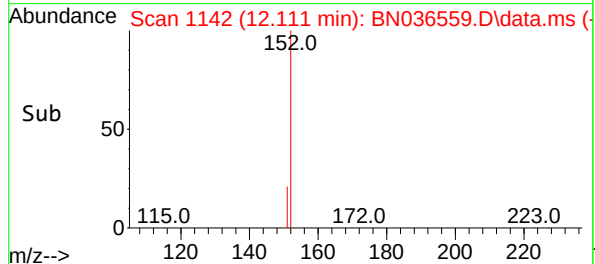
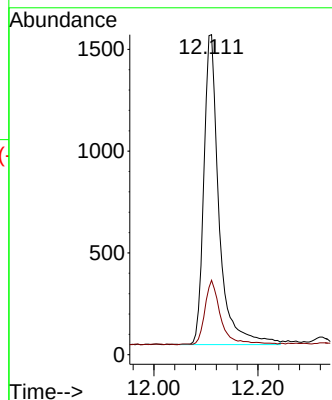
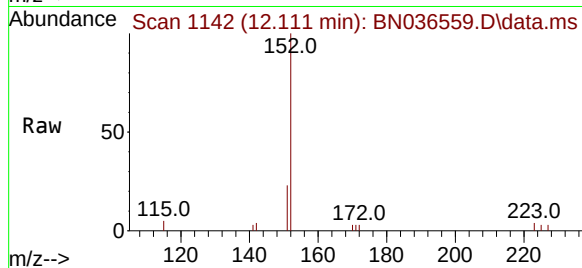




#11
2-Methylnaphthalene-d10
Concen: 0.407 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

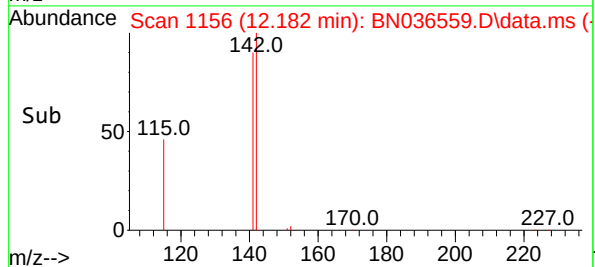
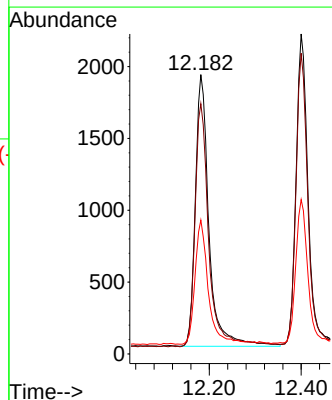
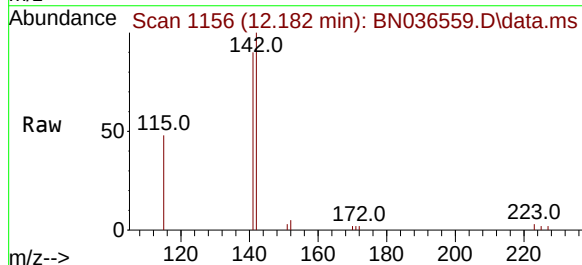
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

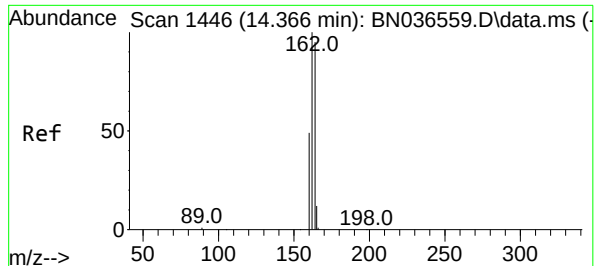
Tgt Ion:152 Resp: 3085
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.409 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:142 Resp: 3897
Ion Ratio Lower Upper
142 100
141 89.6 71.7 107.5
115 47.9 38.3 57.5

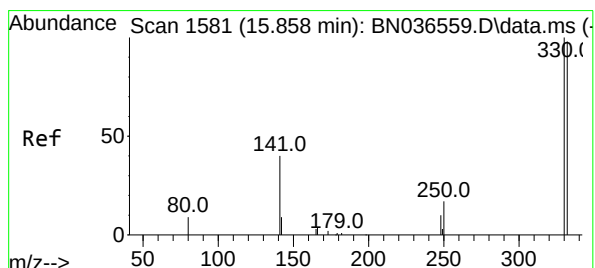
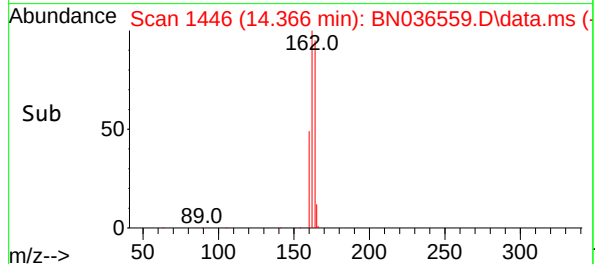
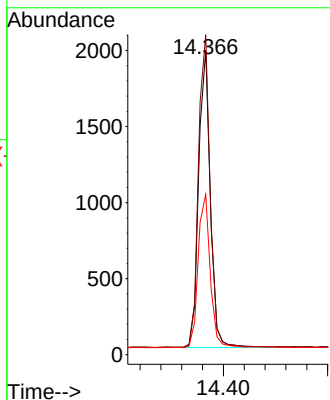
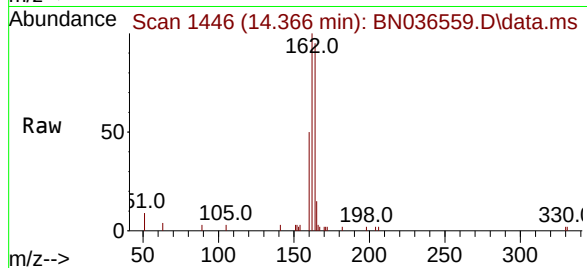




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

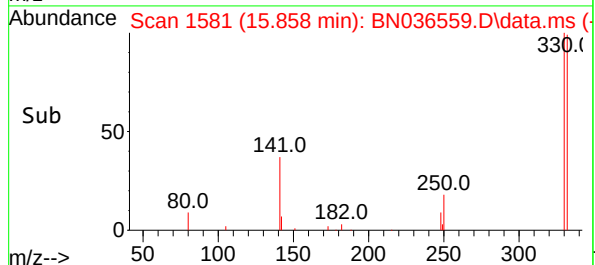
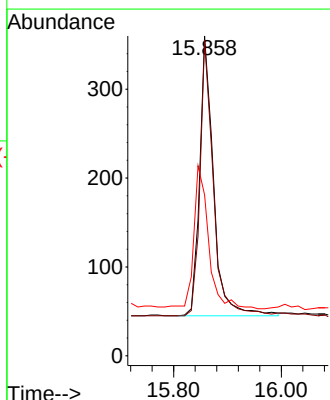
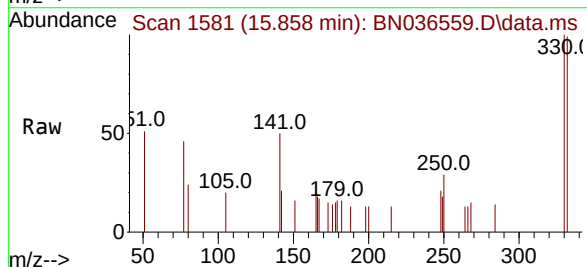
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

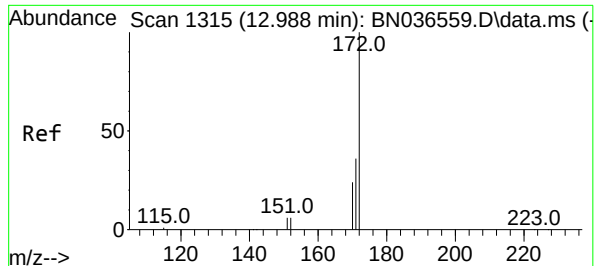
Tgt Ion:164 Resp: 3026
Ion Ratio Lower Upper
164 100
162 105.2 84.2 126.2
160 52.7 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.413 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:330 Resp: 567
Ion Ratio Lower Upper
330 100
332 94.0 75.2 112.8
141 54.3 43.4 65.2





#15

2-Fluorobiphenyl

Concen: 0.412 ng

RT: 12.988 min Scan# 1315

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

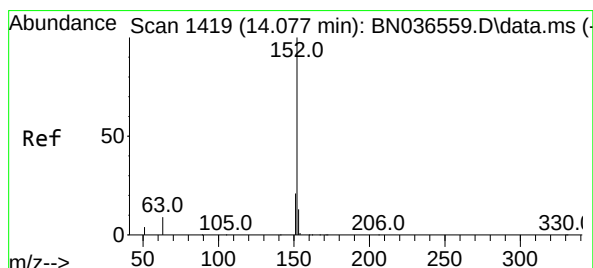
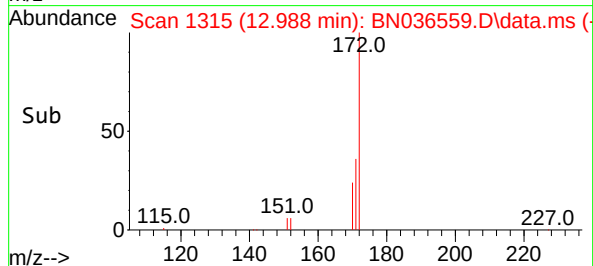
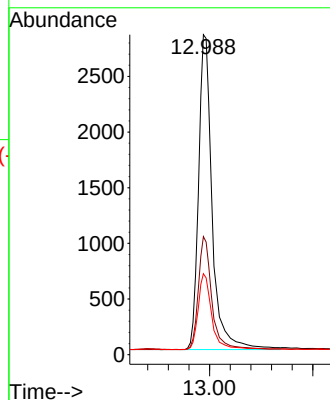
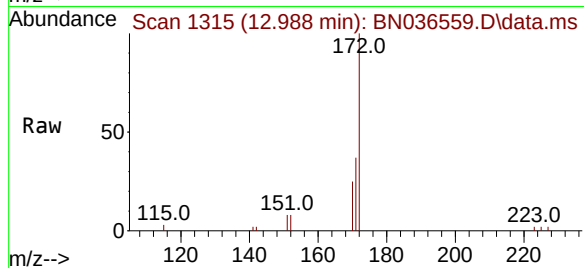
Tgt Ion:172 Resp: 7257

Ion Ratio Lower Upper

172 100

171 36.9 29.5 44.3

170 25.3 20.2 30.4



#16

Acenaphthylene

Concen: 0.411 ng

RT: 14.077 min Scan# 1419

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

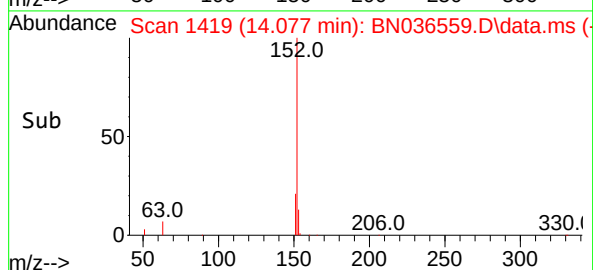
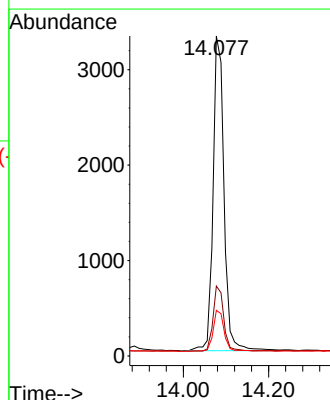
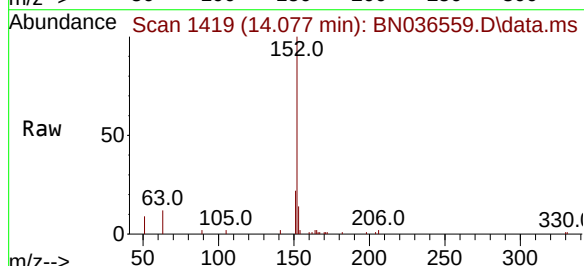
Tgt Ion:152 Resp: 5865

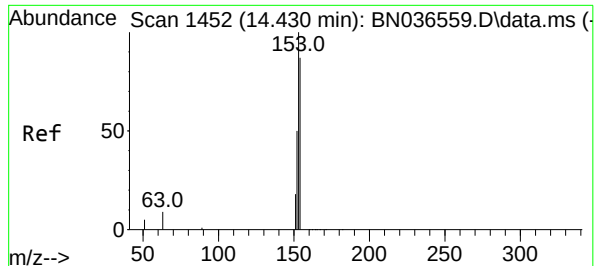
Ion Ratio Lower Upper

152 100

151 20.3 16.2 24.4

153 13.2 10.6 15.8





#17

Acenaphthene

Concen: 0.415 ng

RT: 14.430 min Scan# 1452

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

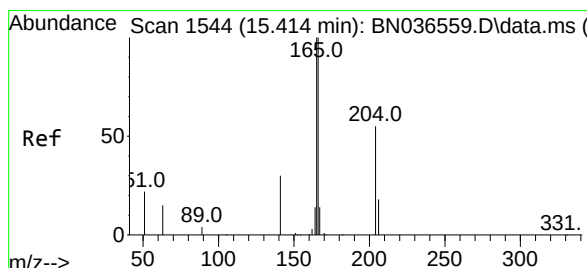
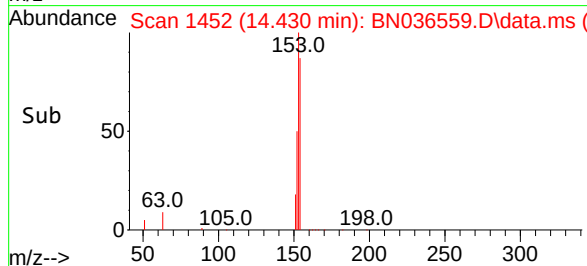
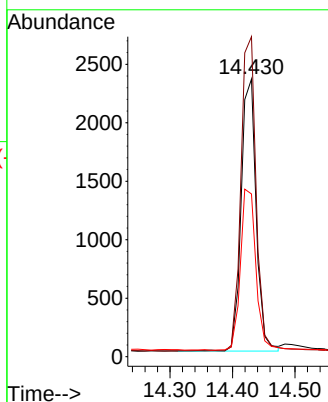
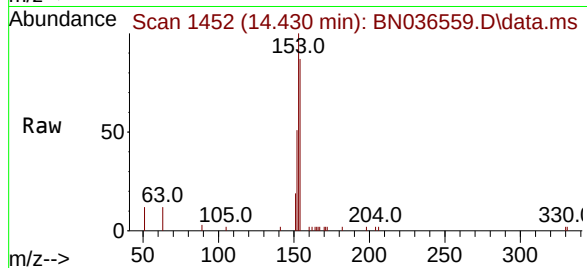
Tgt Ion:154 Resp: 3877

Ion Ratio Lower Upper

154 100

153 117.6 94.1 141.1

152 62.2 49.8 74.6



#18

Fluorene

Concen: 0.422 ng

RT: 15.414 min Scan# 1544

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

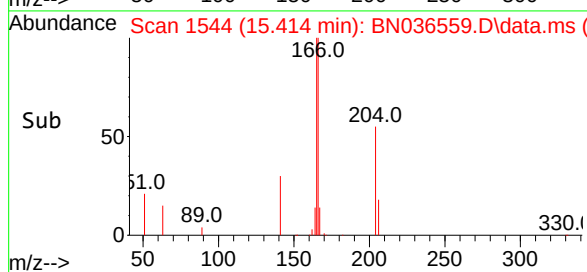
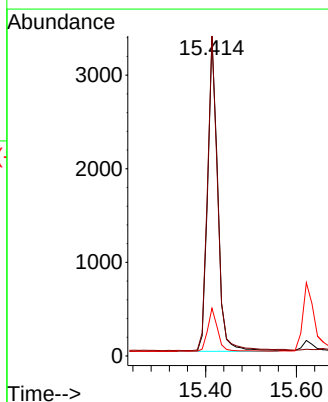
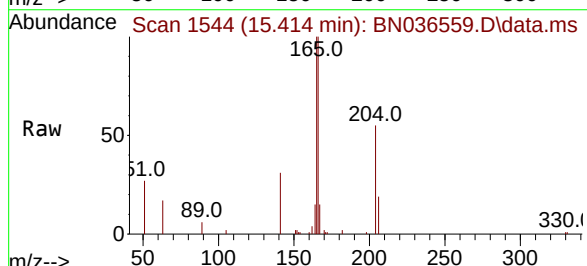
Tgt Ion:166 Resp: 5338

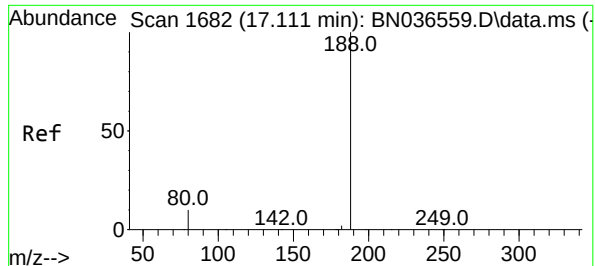
Ion Ratio Lower Upper

166 100

165 99.8 79.8 119.8

167 13.2 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

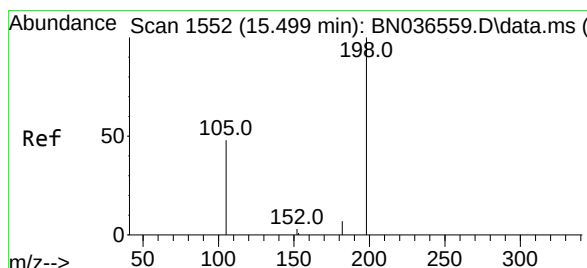
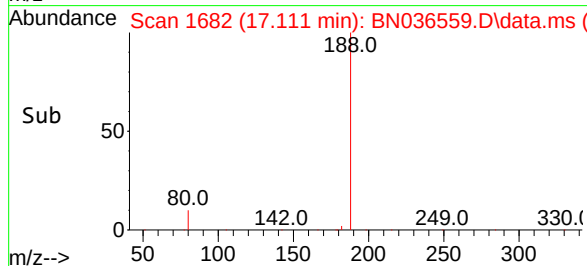
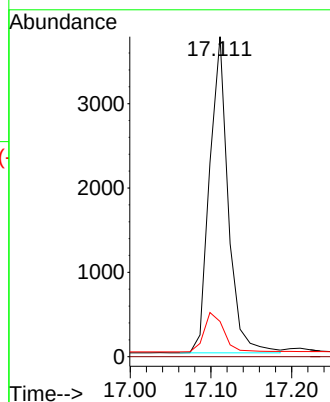
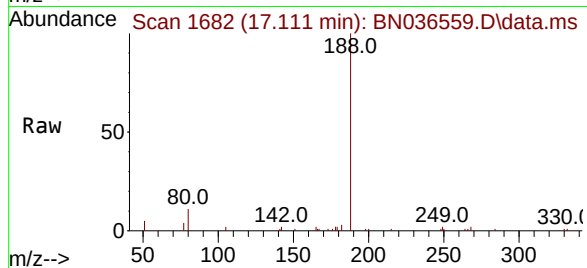
Tgt Ion:188 Resp: 6005

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.0 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.447 ng

RT: 15.499 min Scan# 1552

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

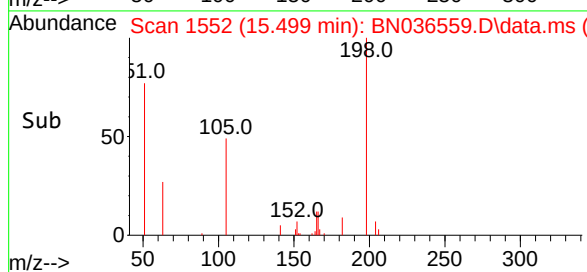
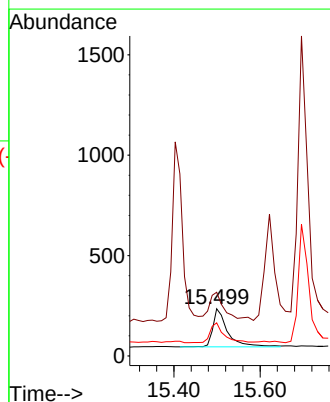
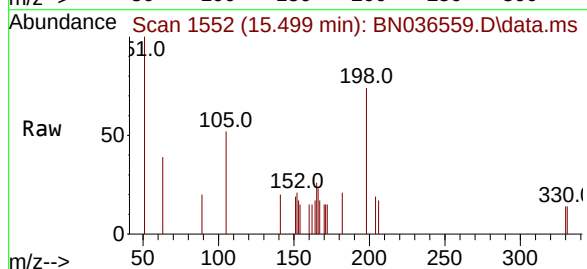
Tgt Ion:198 Resp: 462

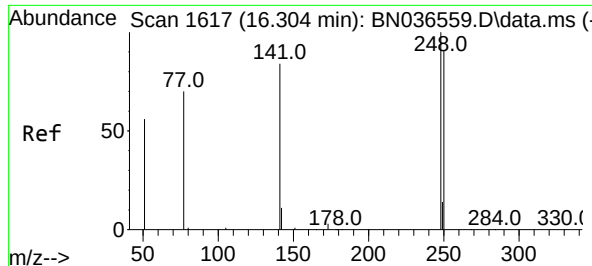
Ion Ratio Lower Upper

198 100

51 134.9 107.9 161.9

105 70.2 56.2 84.2





#21

4-Bromophenyl-phenylether

Concen: 0.437 ng

RT: 16.304 min Scan# 1617

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

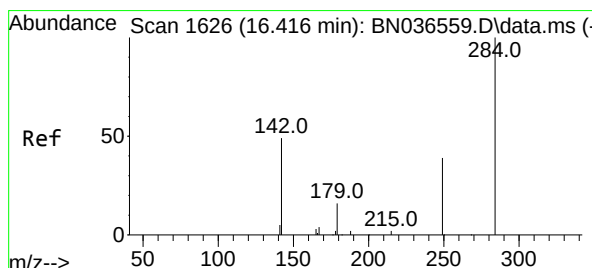
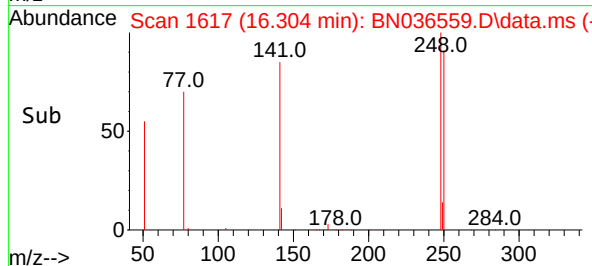
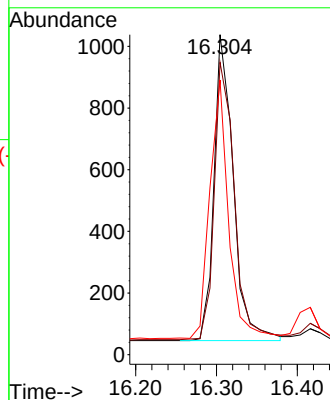
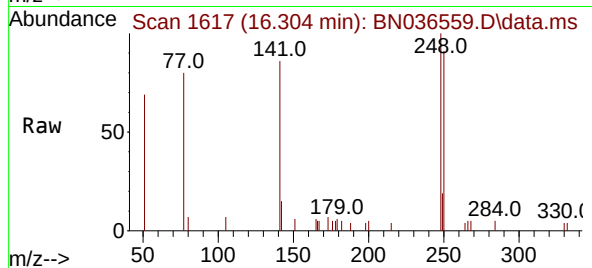
Tgt Ion:248 Resp: 1644

Ion Ratio Lower Upper

248 100

250 91.3 73.0 109.6

141 85.8 68.6 103.0



#22

Hexachlorobenzene

Concen: 0.444 ng

RT: 16.416 min Scan# 1626

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

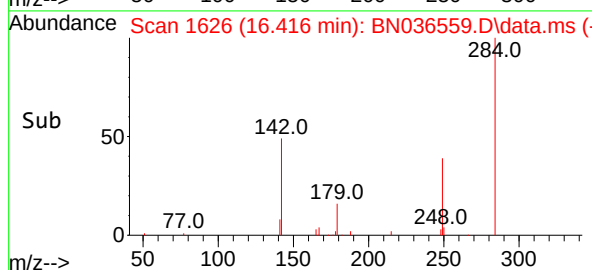
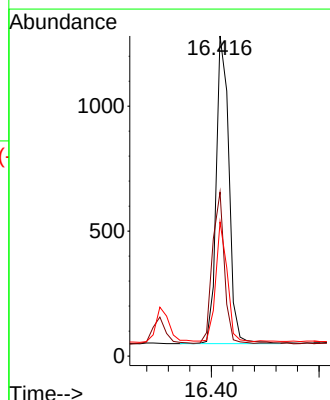
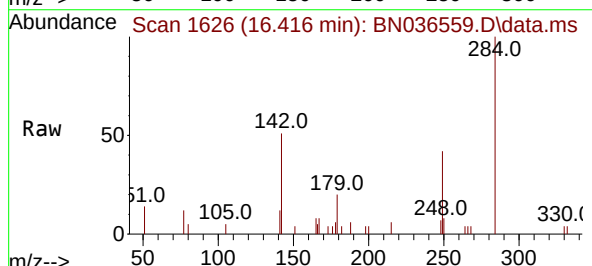
Tgt Ion:284 Resp: 2018

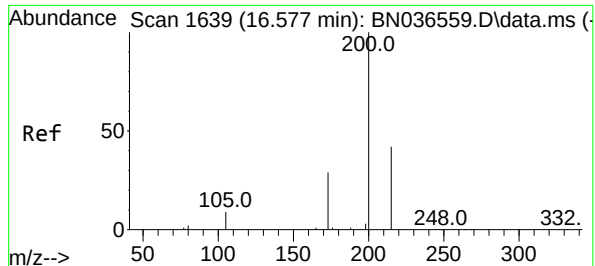
Ion Ratio Lower Upper

284 100

142 46.2 37.0 55.4

249 35.1 28.1 42.1





#23

Atrazine

Concen: 0.424 ng

RT: 16.577 min Scan# 1639

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

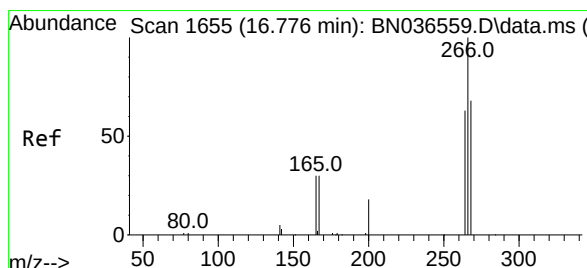
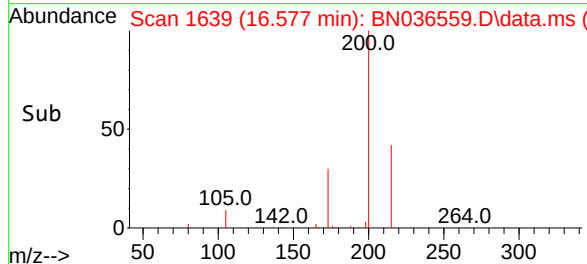
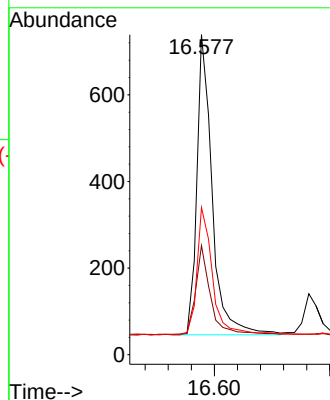
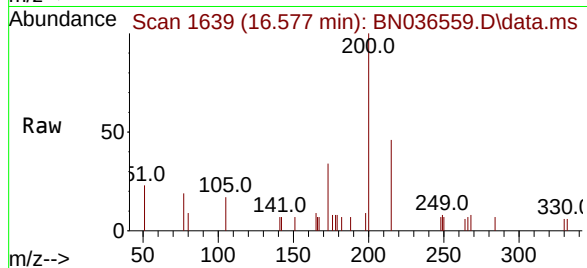
Tgt Ion:200 Resp: 1279

Ion Ratio Lower Upper

200 100

173 34.1 27.3 40.9

215 46.0 36.8 55.2



#24

Pentachlorophenol

Concen: 0.396 ng

RT: 16.776 min Scan# 1655

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

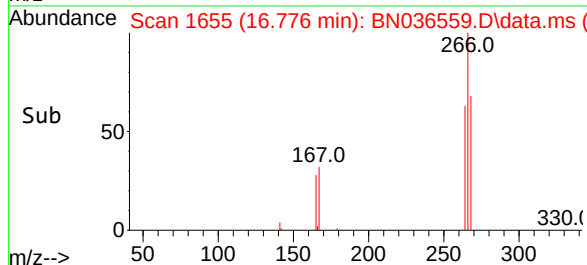
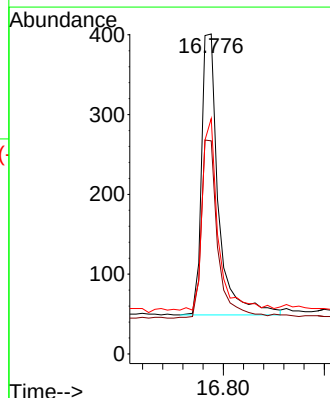
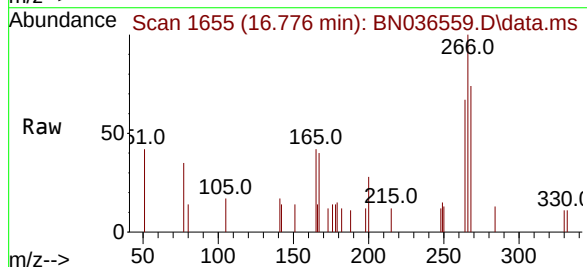
Tgt Ion:266 Resp: 821

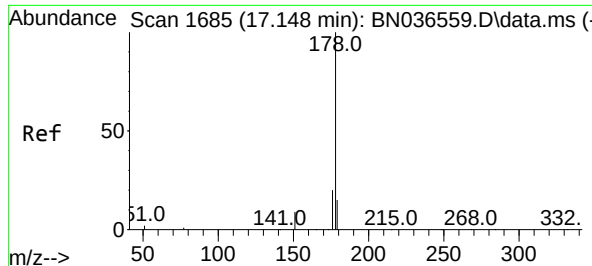
Ion Ratio Lower Upper

266 100

264 62.0 49.6 74.4

268 63.6 50.9 76.3





#25

Phenanthrene

Concen: 0.432 ng

RT: 17.148 min Scan# 1685

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

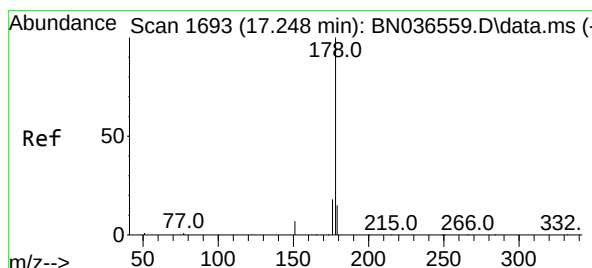
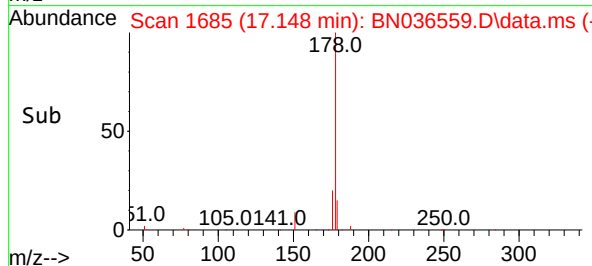
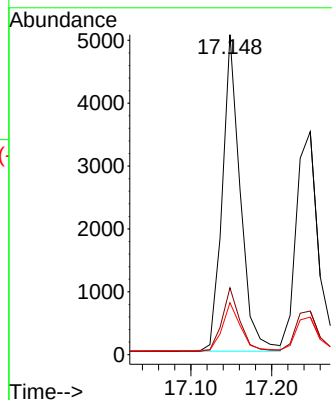
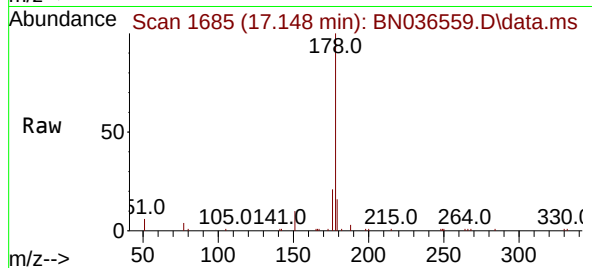
Tgt Ion:178 Resp: 7786

Ion Ratio Lower Upper

178 100

176 19.9 15.9 23.9

179 15.3 12.2 18.4



#26

Anthracene

Concen: 0.424 ng

RT: 17.248 min Scan# 1693

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

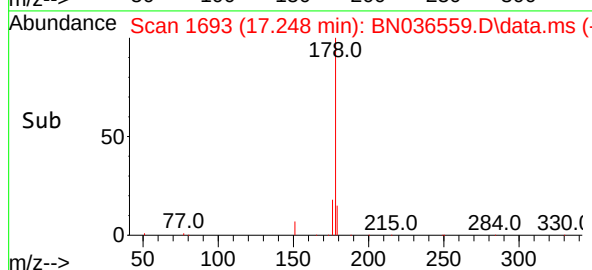
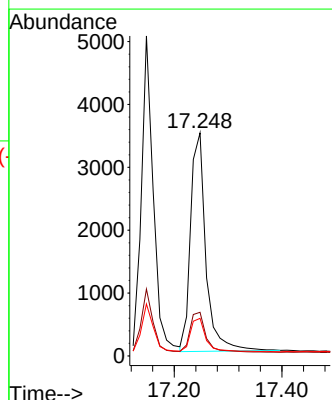
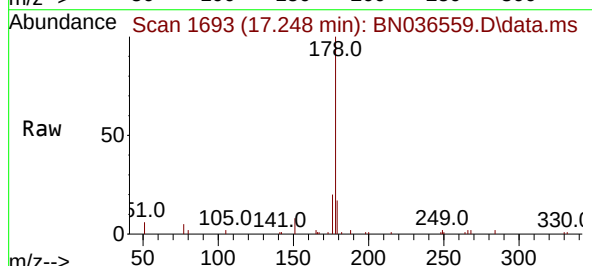
Tgt Ion:178 Resp: 6886

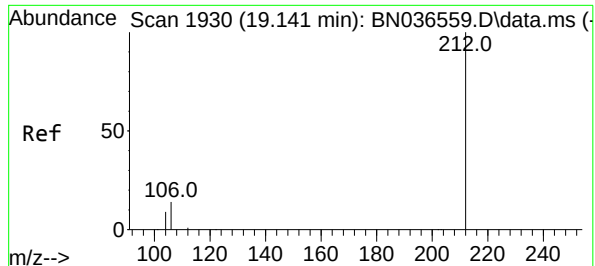
Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

179 15.7 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.435 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

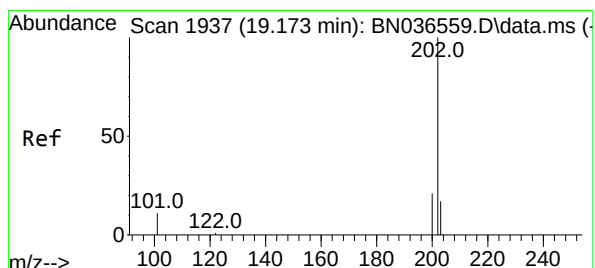
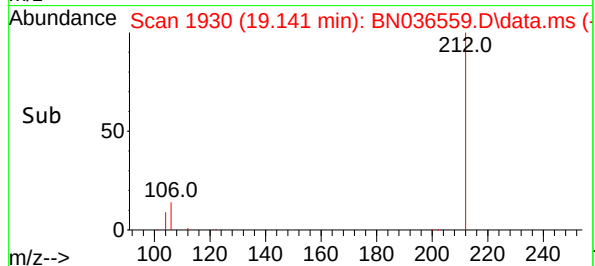
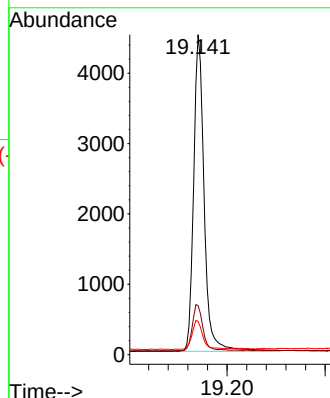
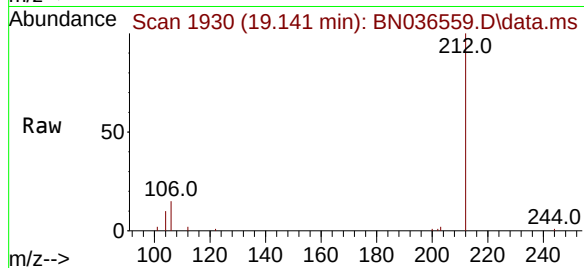
Tgt Ion:212 Resp: 6699

Ion Ratio Lower Upper

212 100

106 14.7 11.8 17.6

104 9.1 7.3 10.9



#28

Fluoranthene

Concen: 0.431 ng

RT: 19.173 min Scan# 1937

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

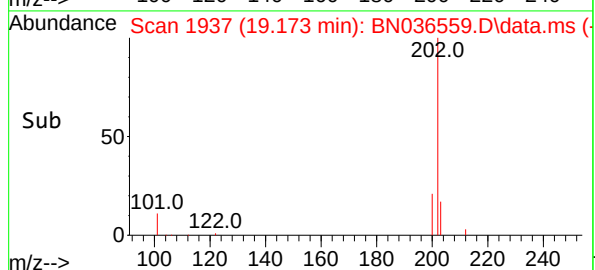
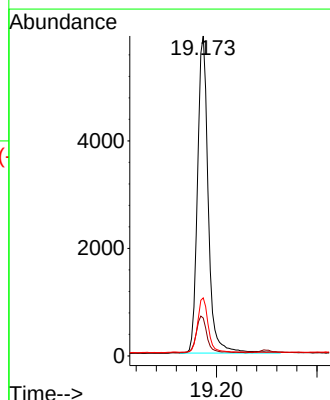
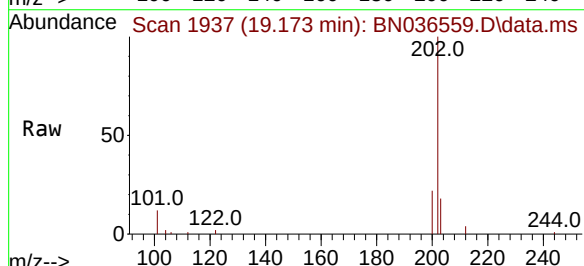
Tgt Ion:202 Resp: 8717

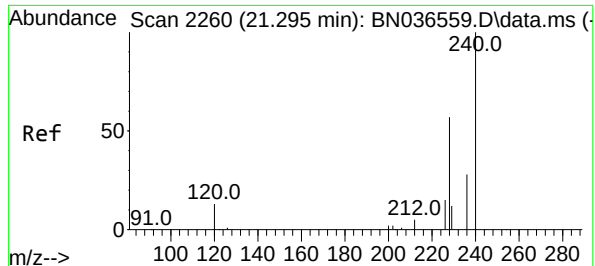
Ion Ratio Lower Upper

202 100

101 11.7 9.4 14.0

203 16.9 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

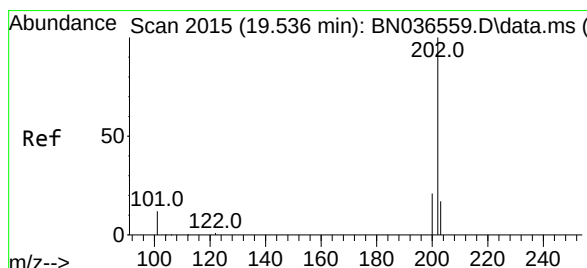
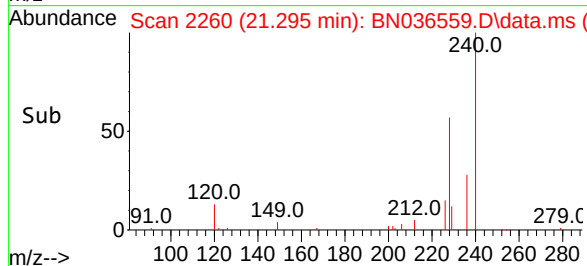
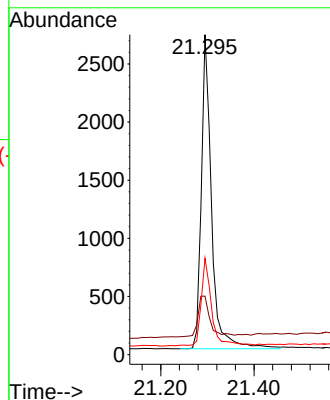
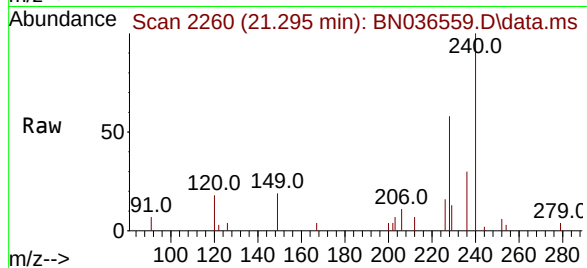
Tgt Ion:240 Resp: 4110

Ion Ratio Lower Upper

240 100

120 18.3 14.6 22.0

236 30.1 24.1 36.1



#30

Pyrene

Concen: 0.436 ng

RT: 19.536 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

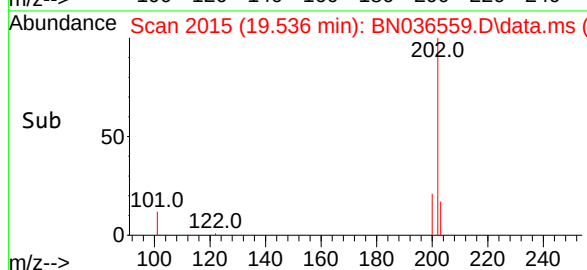
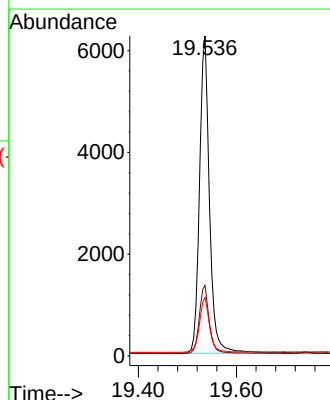
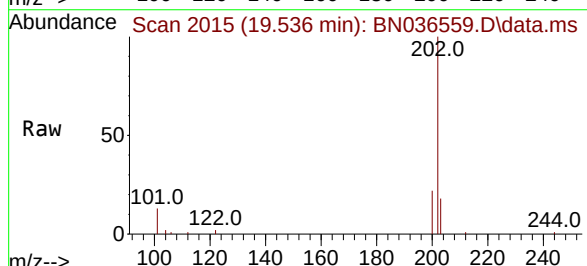
Tgt Ion:202 Resp: 8759

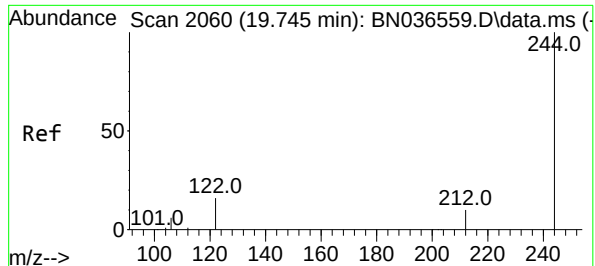
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.6 14.1 21.1

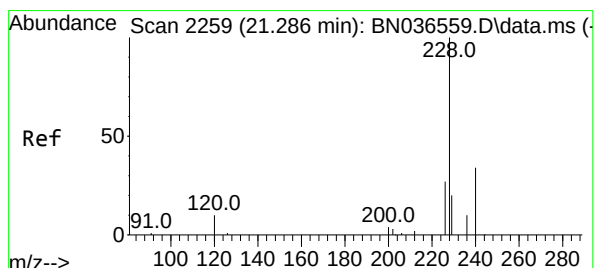
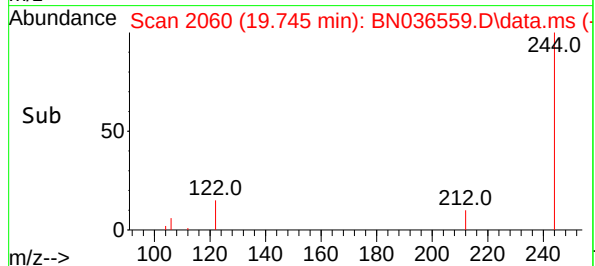
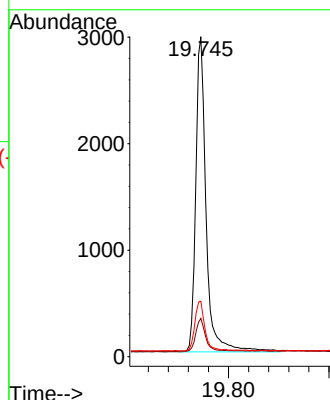
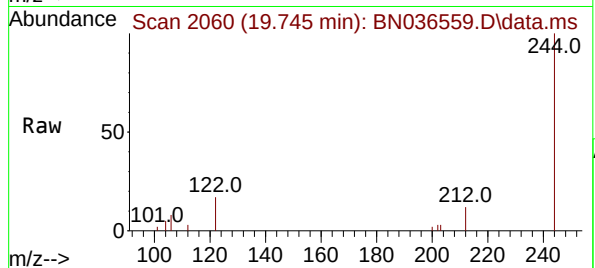




#31
Terphenyl-d14
Concen: 0.429 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

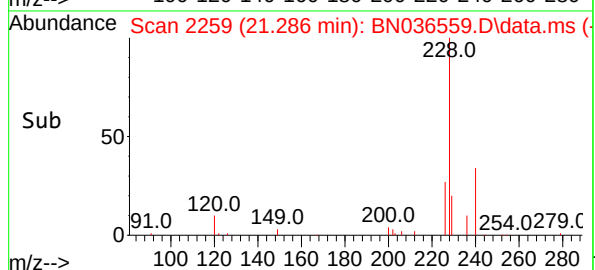
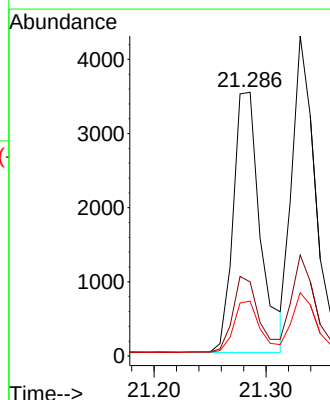
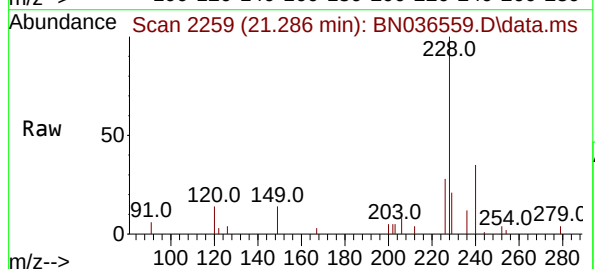
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

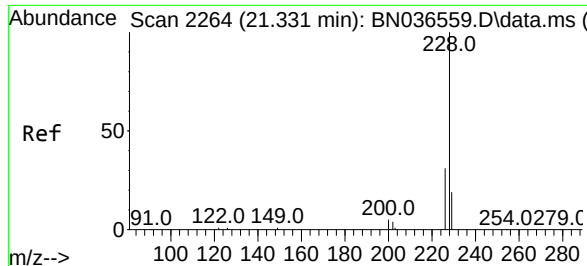
Tgt Ion:244 Resp: 4226
Ion Ratio Lower Upper
244 100
212 12.0 9.6 14.4
122 17.4 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.413 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:228 Resp: 5908
Ion Ratio Lower Upper
228 100
226 28.1 22.5 33.7
229 20.8 16.6 25.0





#33

Chrysene

Concen: 0.424 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

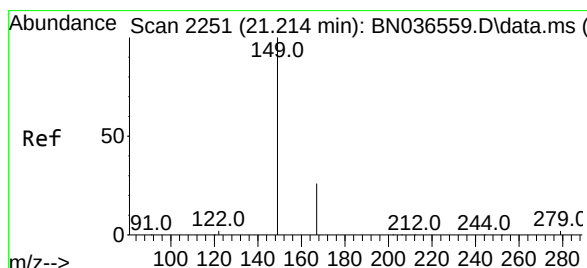
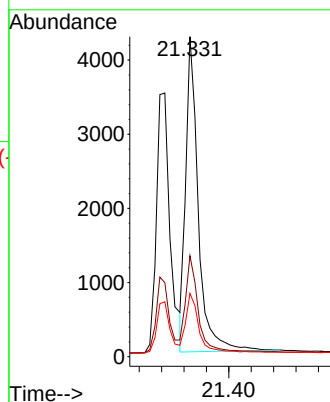
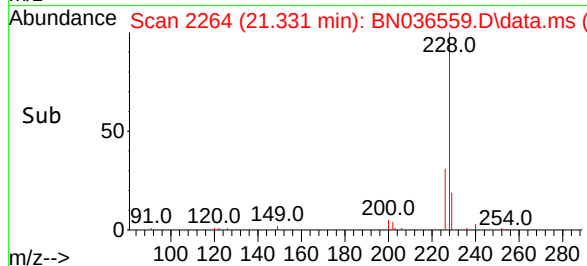
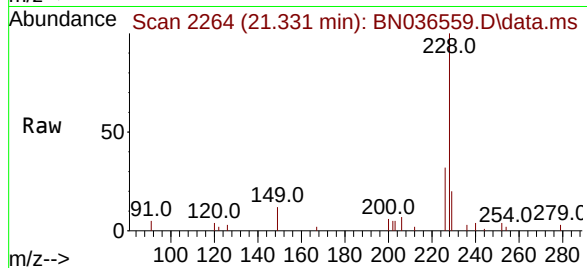
Tgt Ion:228 Resp: 6617

Ion Ratio Lower Upper

228 100

226 31.6 25.3 37.9

229 19.8 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.422 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

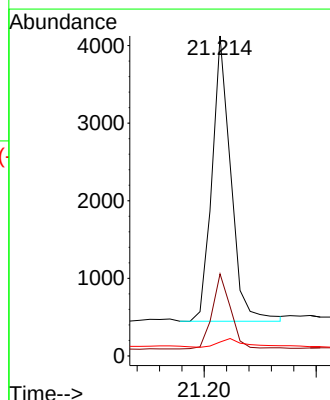
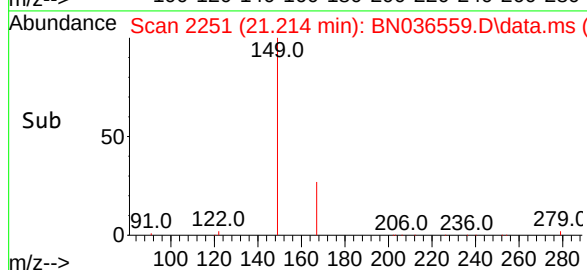
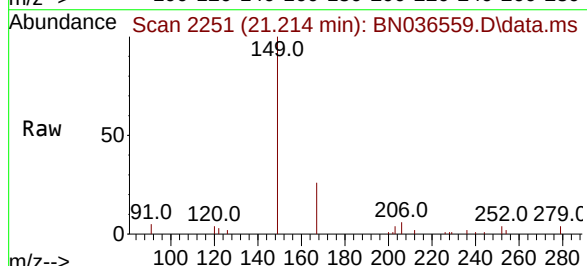
Tgt Ion:149 Resp: 4291

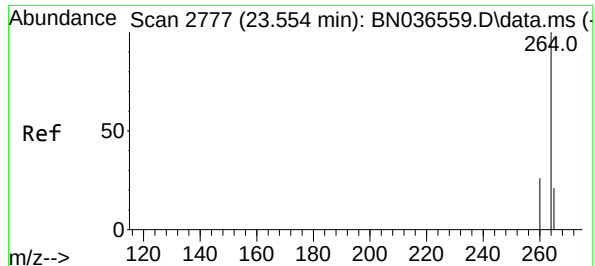
Ion Ratio Lower Upper

149 100

167 25.9 20.7 31.1

279 4.5 3.6 5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

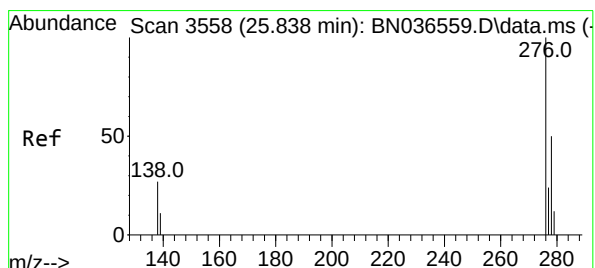
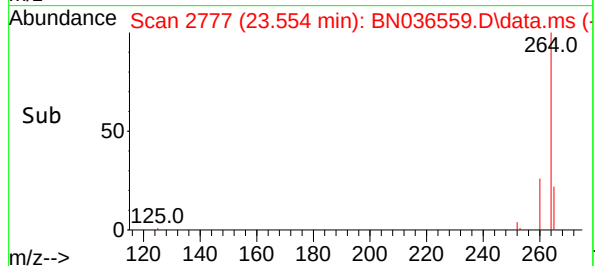
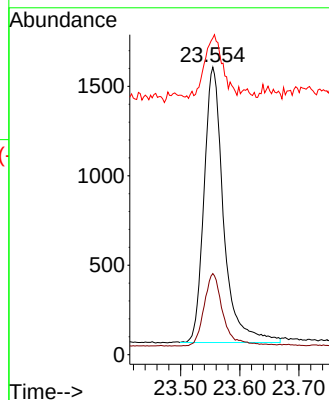
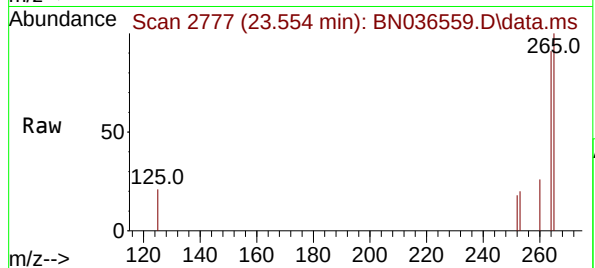
Tgt Ion:264 Resp: 3539

Ion Ratio Lower Upper

264 100

260 28.2 22.6 33.8

265 110.1 88.1 132.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.428 ng

RT: 25.838 min Scan# 3558

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

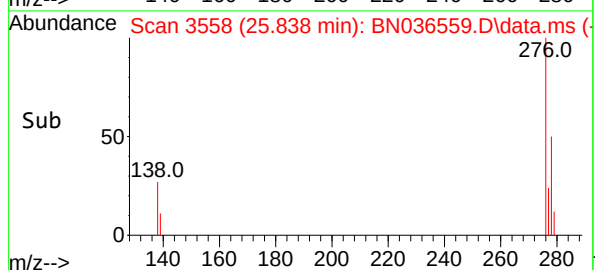
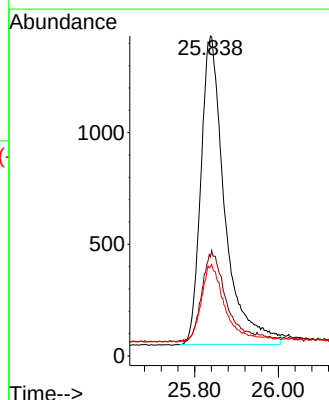
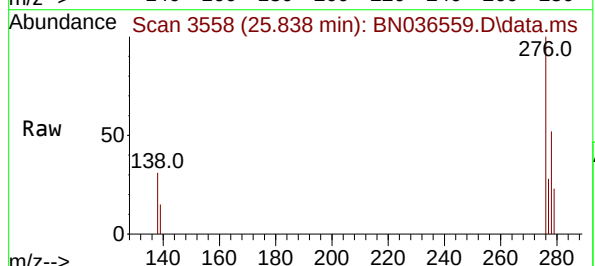
Tgt Ion:276 Resp: 5470

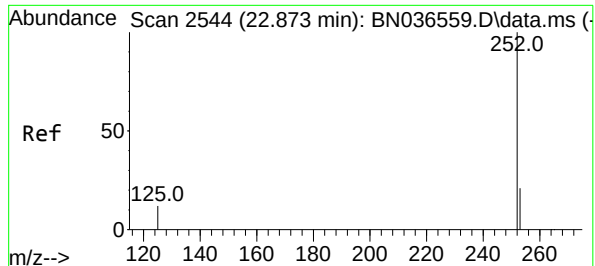
Ion Ratio Lower Upper

276 100

138 29.3 23.4 35.2

277 25.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.425 ng

RT: 22.873 min Scan# 2544

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

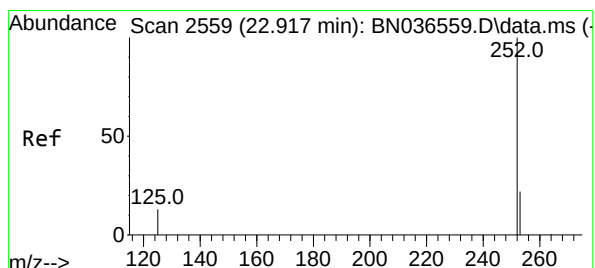
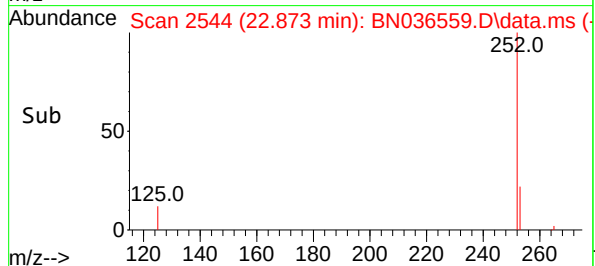
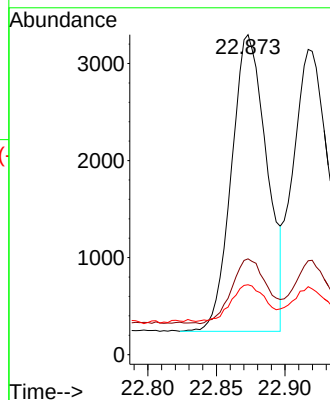
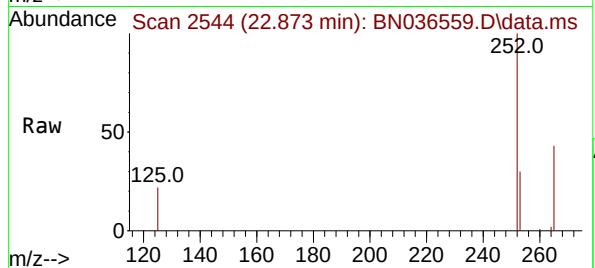
Tgt Ion:252 Resp: 5475

Ion Ratio Lower Upper

252 100

253 29.9 23.9 35.9

125 21.8 17.4 26.2



#38

Benzo(k)fluoranthene

Concen: 0.424 ng

RT: 22.917 min Scan# 2559

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

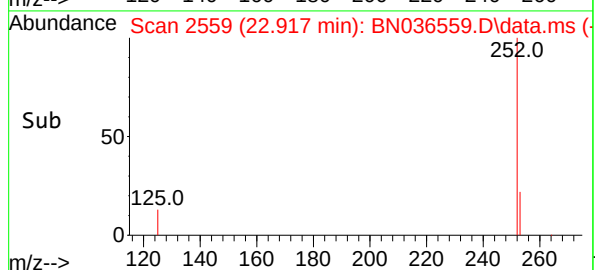
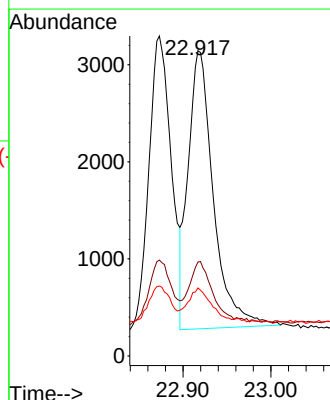
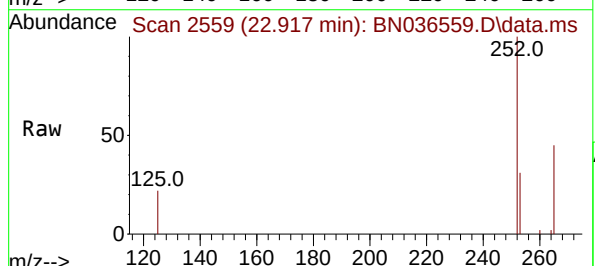
Tgt Ion:252 Resp: 5732

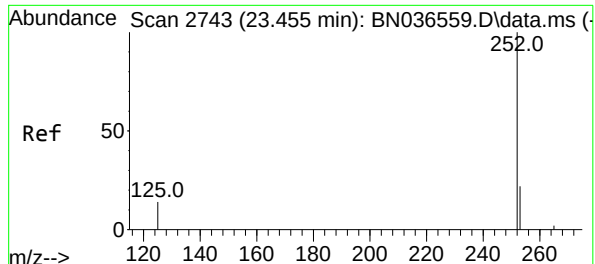
Ion Ratio Lower Upper

252 100

253 30.7 24.6 36.8

125 22.3 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.425 ng

RT: 23.455 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

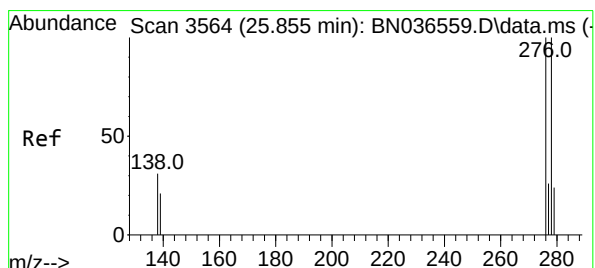
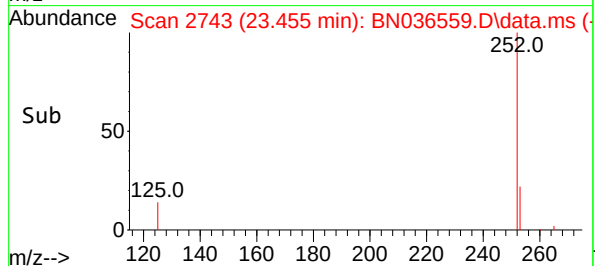
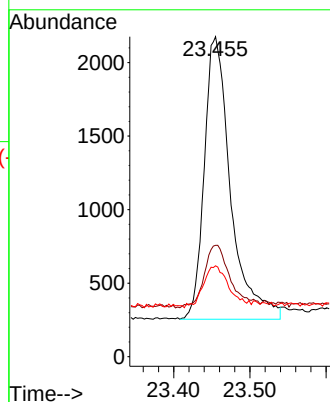
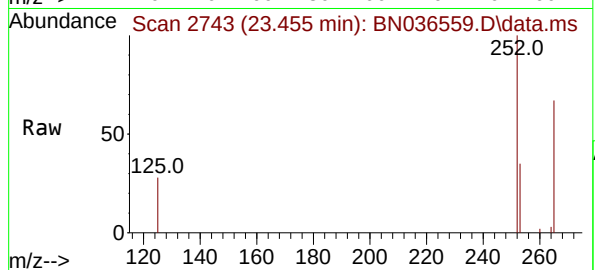
Tgt Ion:252 Resp: 4612

Ion Ratio Lower Upper

252 100

253 34.8 27.8 41.8

125 28.4 22.7 34.1



#40

Dibenzo(a,h)anthracene

Concen: 0.414 ng

RT: 25.855 min Scan# 3564

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

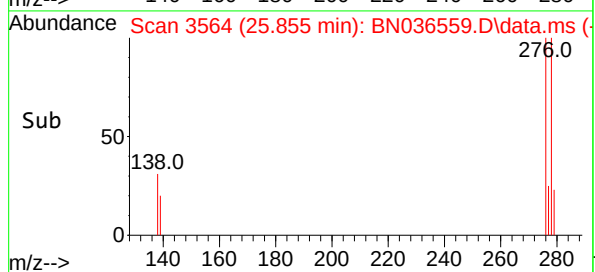
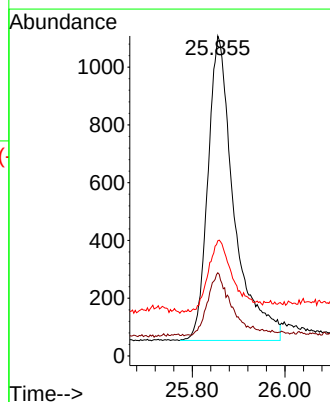
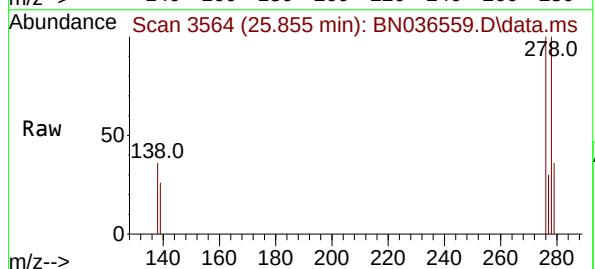
Tgt Ion:278 Resp: 4117

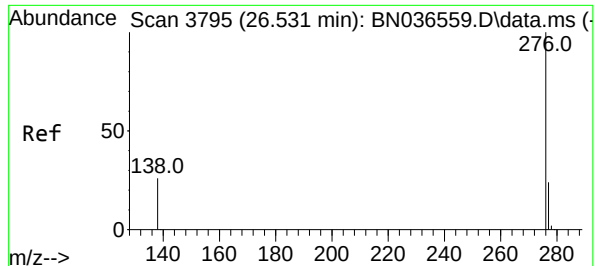
Ion Ratio Lower Upper

278 100

139 26.0 20.8 31.2

279 36.0 28.8 43.2





#41

Benzo(g,h,i)perylene

Concen: 0.430 ng

RT: 26.531 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN036559.D

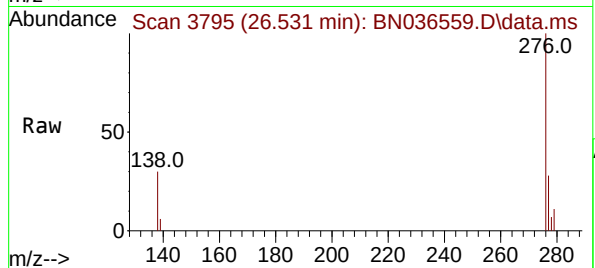
Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



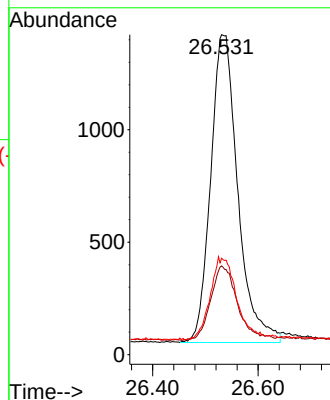
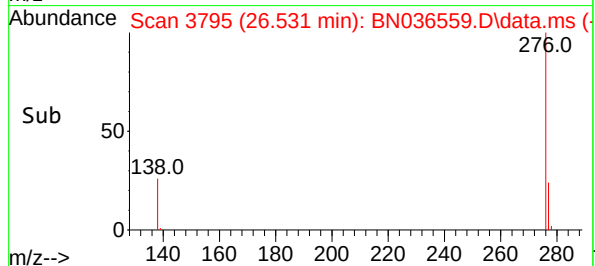
Tgt Ion:276 Resp: 4891

Ion Ratio Lower Upper

276 100

277 27.8 22.2 33.4

138 30.1 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036560.D
 Acq On : 10 Mar 2025 13:31
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Mar 10 16:01:54 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

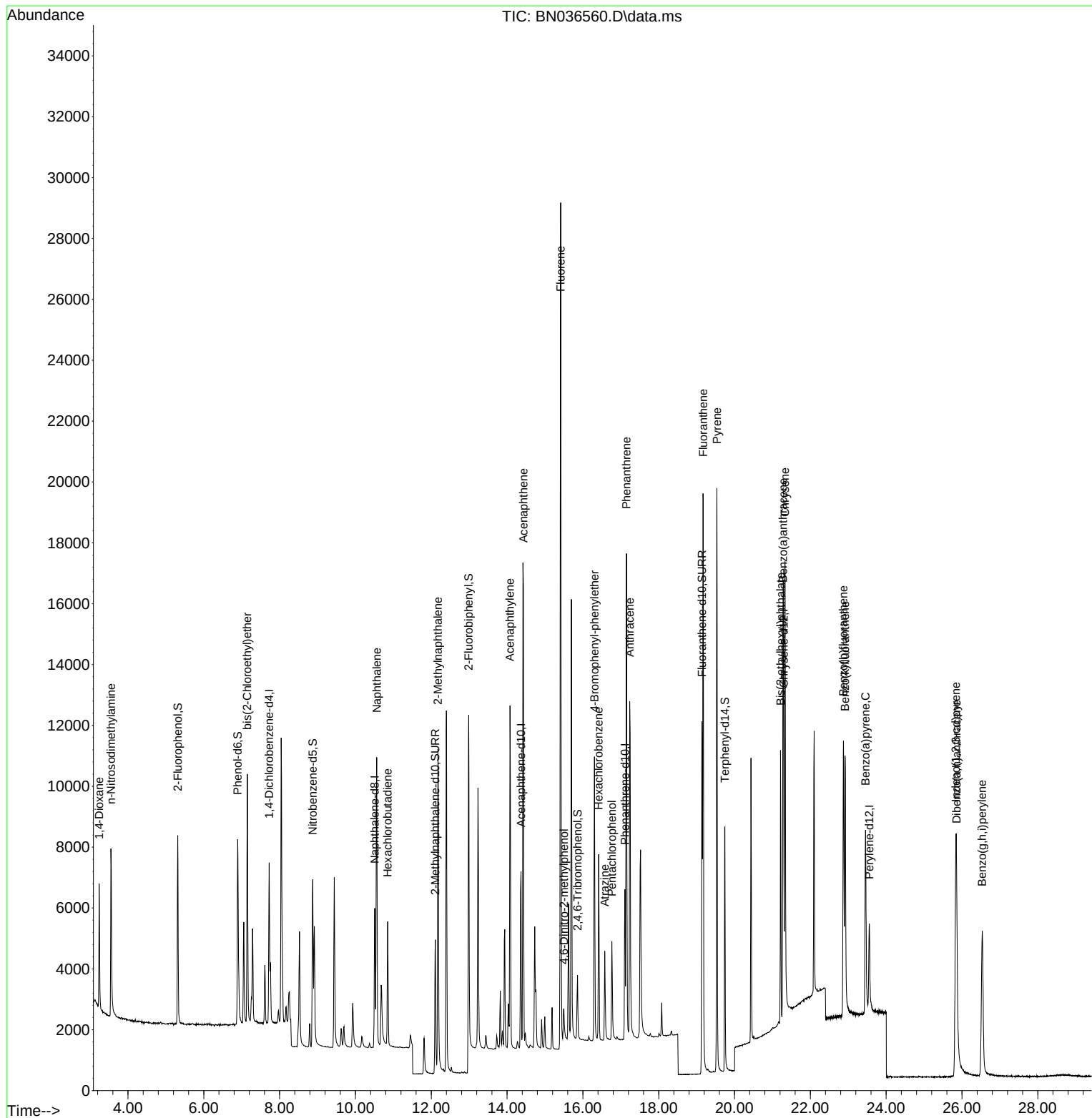
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2495	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5884	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3456	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	6971	0.400	ng	0.00
29) Chrysene-d12	21.295	240	4636	0.400	ng	0.00
35) Perylene-d12	23.554	264	4198	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	4381	0.753	ng	0.00
5) Phenol-d6	6.894	99	5324	0.741	ng	0.00
8) Nitrobenzene-d5	8.875	82	4717	0.737	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	6616	0.756	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	1166	0.744	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	16243	0.808	ng	0.00
27) Fluoranthene-d10	19.141	212	13330	0.746	ng	0.00
31) Terphenyl-d14	19.745	244	8571	0.772	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	2251	0.813	ng	99
3) n-Nitrosodimethylamine	3.550	42	4197	0.750	ng	96
6) bis(2-Chloroethyl)ether	7.147	93	5632	0.759	ng	99
9) Naphthalene	10.562	128	13078	0.756	ng	98
10) Hexachlorobutadiene	10.851	225	3147	0.772	ng	# 99
12) 2-Methylnaphthalene	12.177	142	8272	0.751	ng	98
16) Acenaphthylene	14.078	152	12403	0.760	ng	100
17) Acenaphthene	14.430	154	8096	0.758	ng	99
18) Fluorene	15.414	166	11120	0.770	ng	100
20) 4,6-Dinitro-2-methylph...	15.499	198	1039	0.724	ng	# 59
21) 4-Bromophenyl-phenylether	16.305	248	3324	0.761	ng	93
22) Hexachlorobenzene	16.416	284	4115	0.780	ng	99
23) Atrazine	16.578	200	2677	0.764	ng	94
24) Pentachlorophenol	16.764	266	1701	0.707	ng	98
25) Phenanthrene	17.149	178	15910	0.761	ng	99
26) Anthracene	17.236	178	14403	0.763	ng	99
28) Fluoranthene	19.174	202	17738	0.755	ng	99
30) Pyrene	19.536	202	17714	0.781	ng	100
32) Benzo(a)anthracene	21.277	228	12089	0.750	ng	98
33) Chrysene	21.331	228	13974	0.793	ng	100
34) Bis(2-ethylhexyl)phtha...	21.214	149	8021	0.699	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.838	276	11785	0.778	ng	99
37) Benzo(b)fluoranthene	22.873	252	11771	0.770	ng	# 91
38) Benzo(k)fluoranthene	22.917	252	12432	0.776	ng	# 90
39) Benzo(a)pyrene	23.455	252	10036	0.780	ng	# 87
40) Dibenzo(a,h)anthracene	25.858	278	9450	0.801	ng	91
41) Benzo(g,h,i)perylene	26.534	276	10494	0.778	ng	96

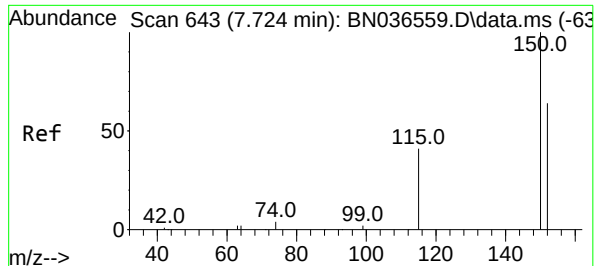
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036560.D
Acq On : 10 Mar 2025 13:31
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Mar 10 16:01:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

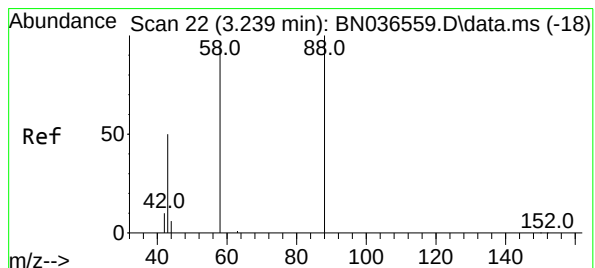
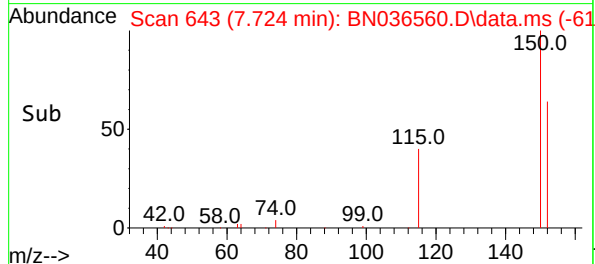
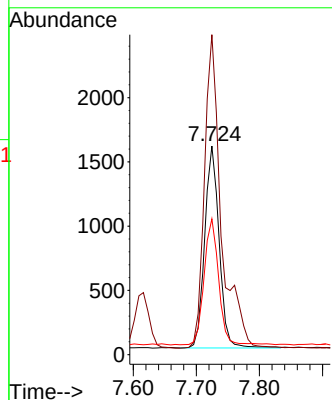
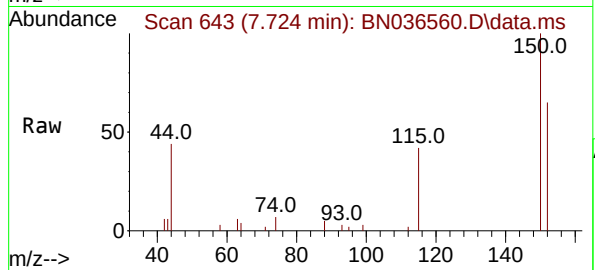




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

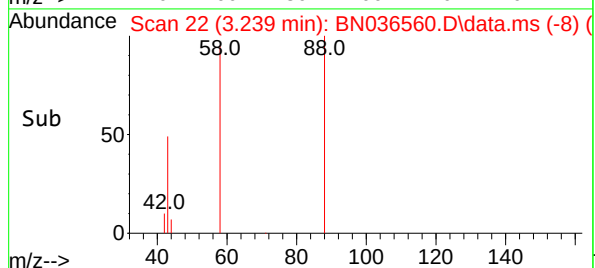
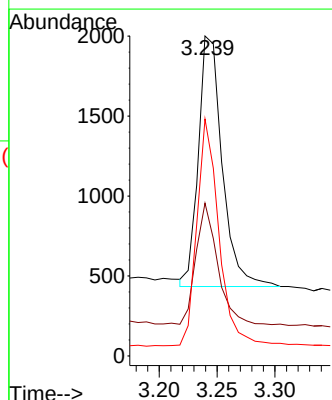
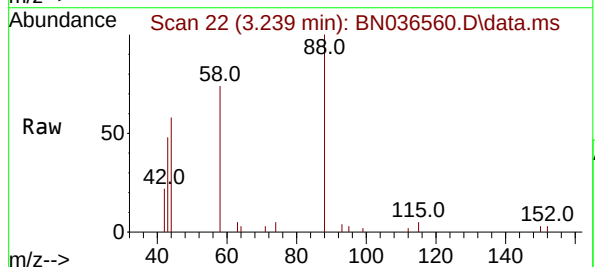
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

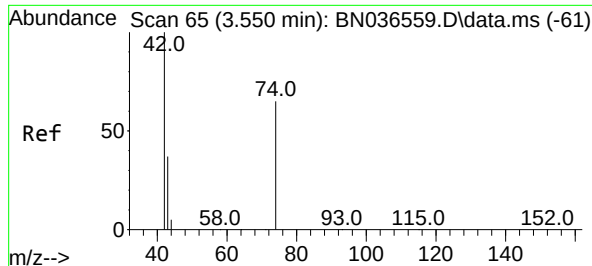
Tgt Ion:152 Resp: 2495
Ion Ratio Lower Upper
152 100
150 153.3 123.7 185.5
115 65.1 54.3 81.5



#2
1,4-Dioxane
Concen: 0.813 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion: 88 Resp: 2251
Ion Ratio Lower Upper
88 100
43 45.6 37.8 56.8
58 84.5 67.4 101.2

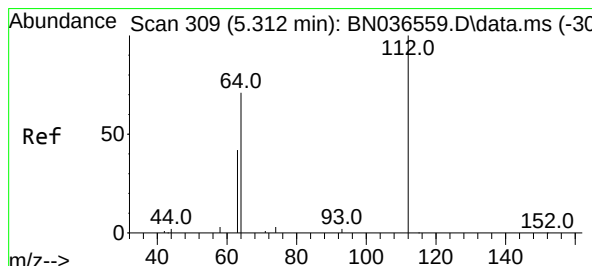
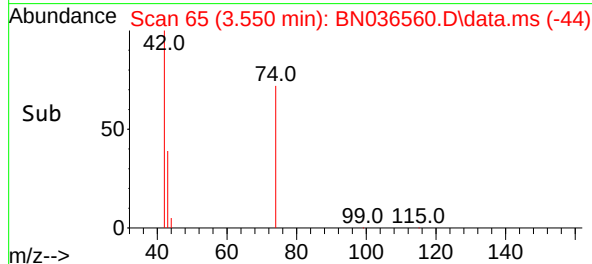
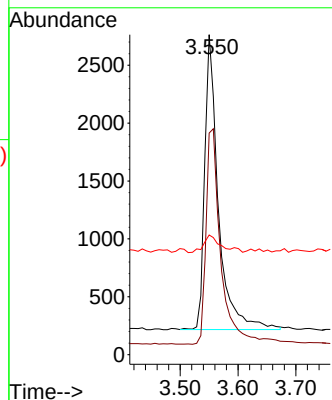
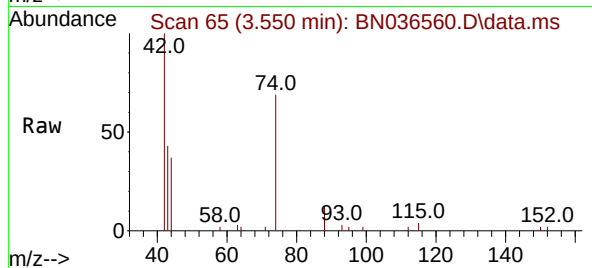




#3
n-Nitrosodimethylamine
Concen: 0.750 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

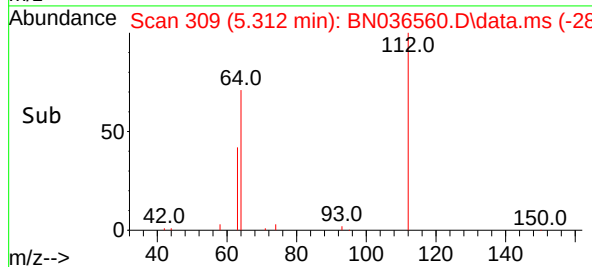
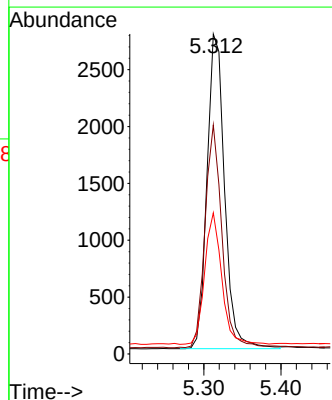
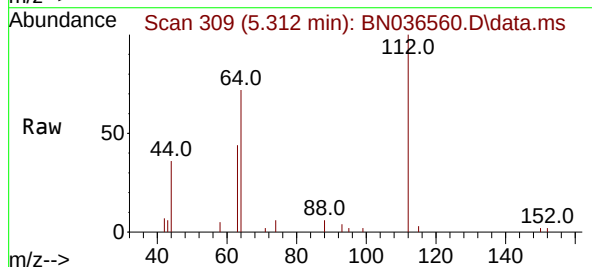
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

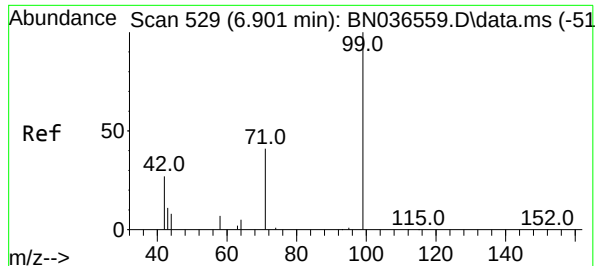
Tgt Ion: 42 Resp: 4197
Ion Ratio Lower Upper
42 100
74 79.3 60.6 90.8
44 7.4 6.3 9.5



#4
2-Fluorophenol
Concen: 0.753 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion: 112 Resp: 4381
Ion Ratio Lower Upper
112 100
64 68.8 53.1 79.7
63 40.4 31.8 47.8

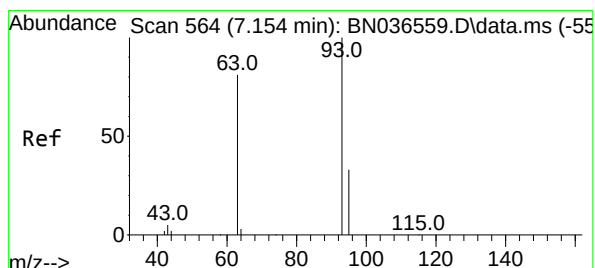
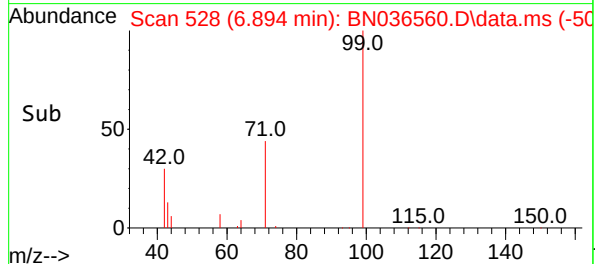
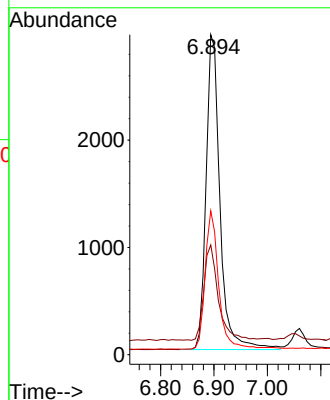
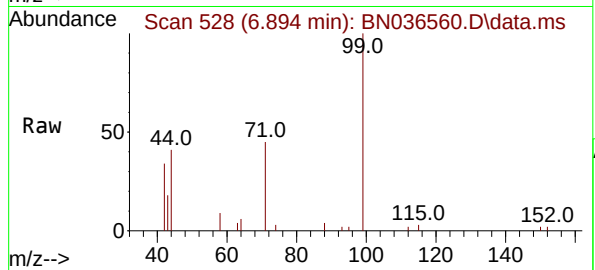




#5
Phenol-d6
Concen: 0.741 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

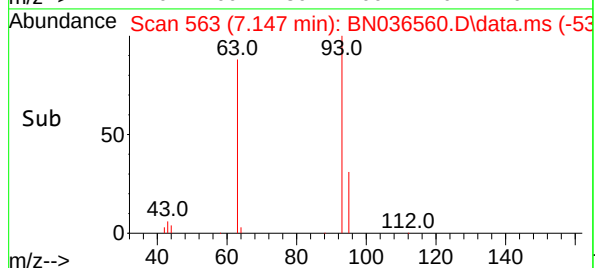
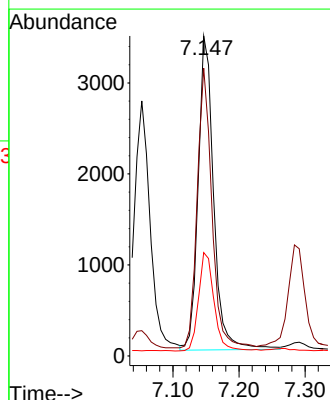
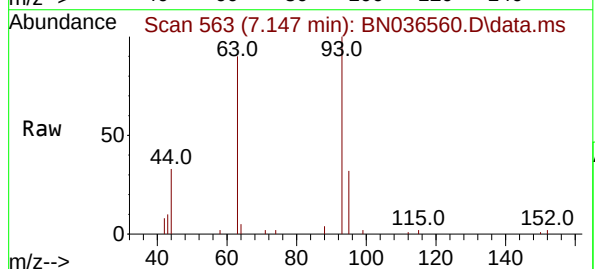
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.8

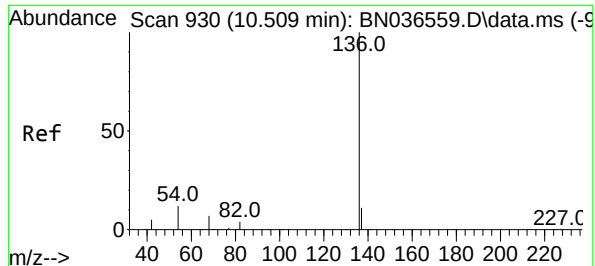
Tgt Ion: 99 Resp: 5324
Ion Ratio Lower Upper
99 100
42 31.3 26.5 39.7
71 42.6 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.759 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion: 93 Resp: 5632
Ion Ratio Lower Upper
93 100
63 84.0 67.7 101.5
95 31.6 25.6 38.4

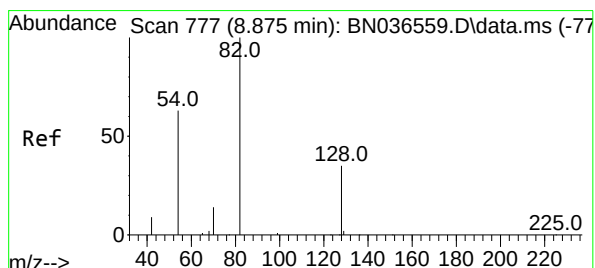
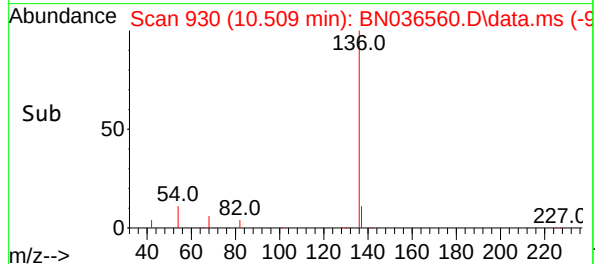
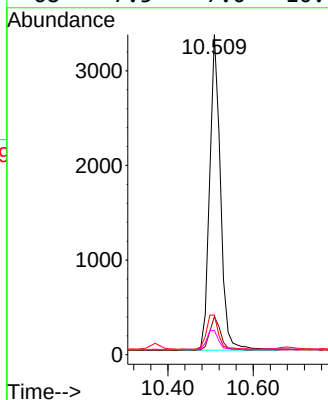
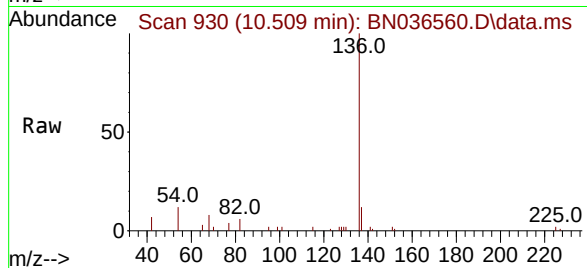




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

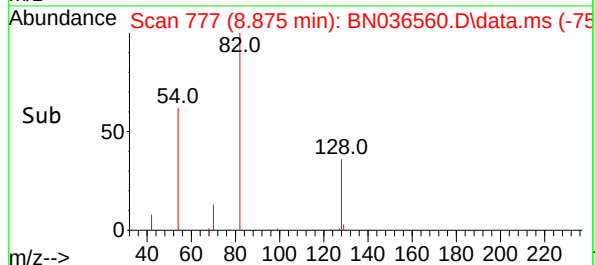
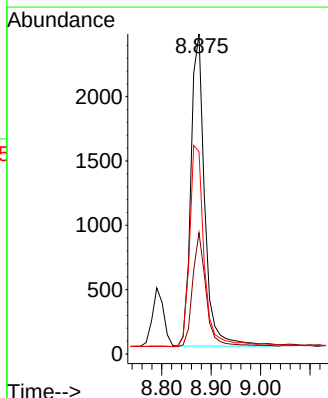
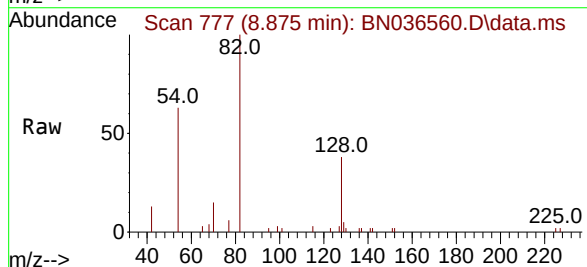
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

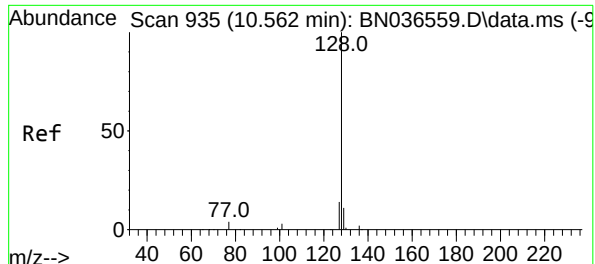
Tgt Ion:	136	Resp:	5884
Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.3	15.5
54	12.4	11.5	17.3
68	7.5	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.737 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:	82	Resp:	4717
Ion	Ratio	Lower	Upper
82	100		
128	37.9	30.6	45.8
54	63.2	52.2	78.4





#9

Naphthalene

Concen: 0.756 ng

RT: 10.562 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

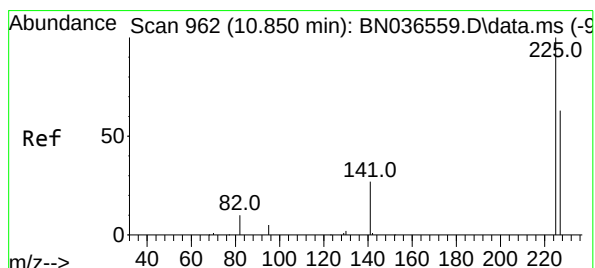
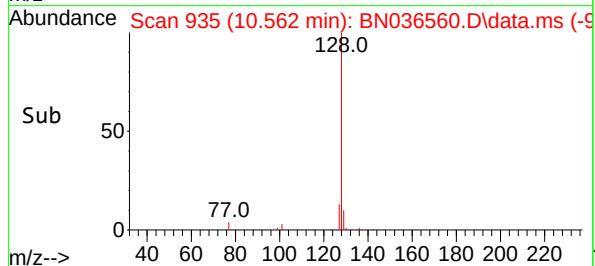
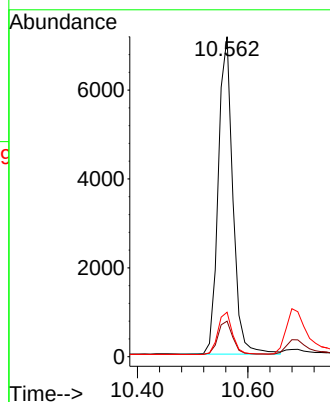
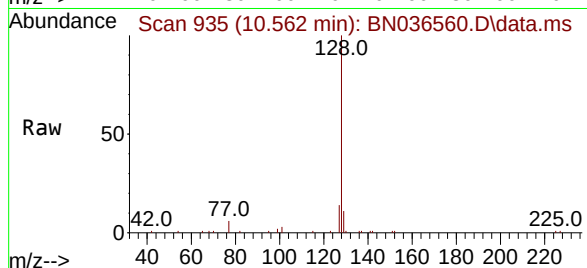
Tgt Ion:128 Resp: 13078

Ion Ratio Lower Upper

128 100

129 11.1 9.8 14.6

127 13.9 11.8 17.8



#10

Hexachlorobutadiene

Concen: 0.772 ng

RT: 10.851 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

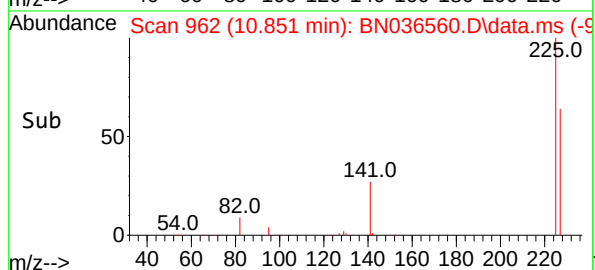
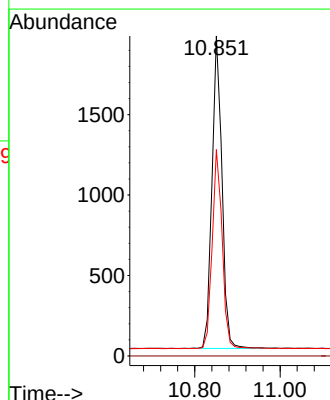
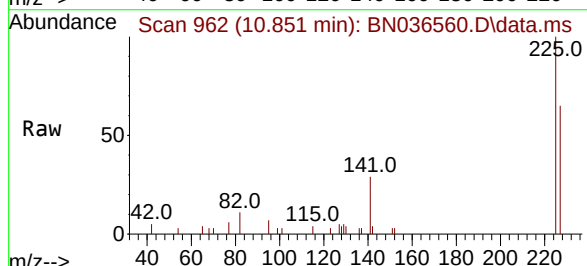
Tgt Ion:225 Resp: 3147

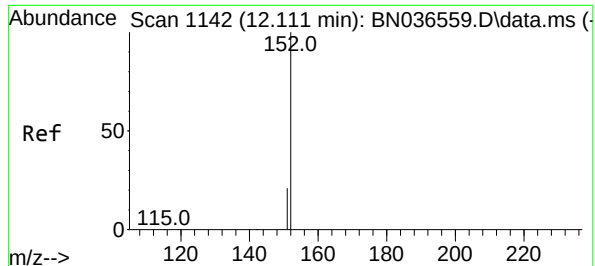
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.7 51.8 77.8

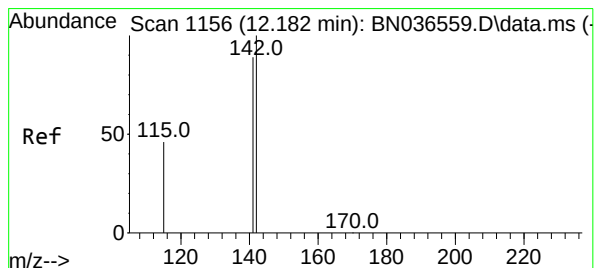
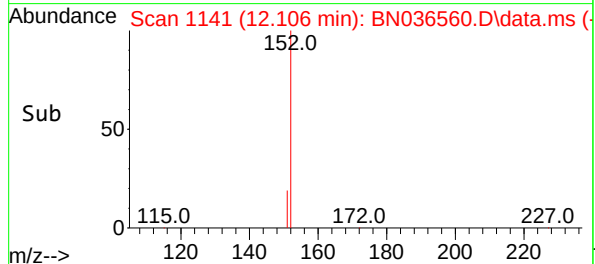
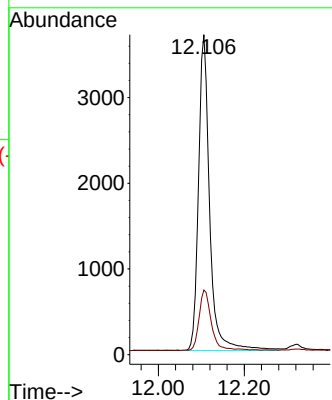
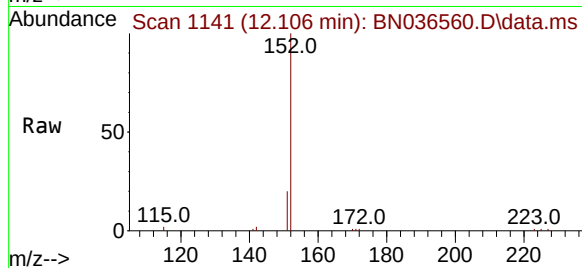




#11
2-Methylnaphthalene-d10
Concen: 0.756 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.005 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

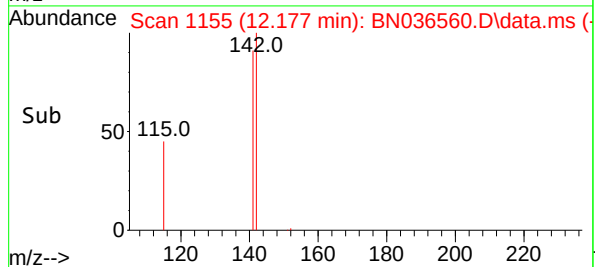
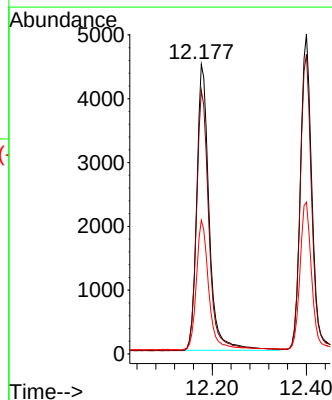
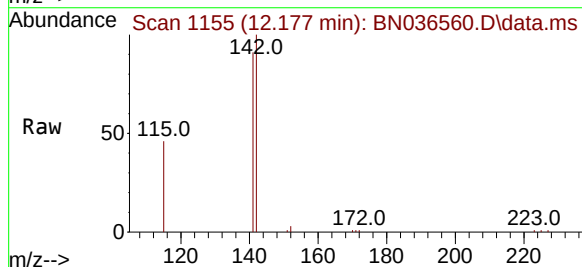
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

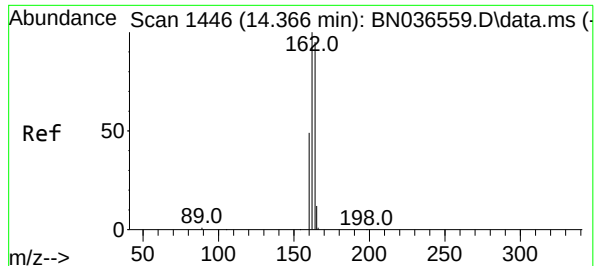
Tgt Ion:152 Resp: 6616
Ion Ratio Lower Upper
152 100
151 20.8 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.751 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:142 Resp: 8272
Ion Ratio Lower Upper
142 100
141 91.0 71.7 107.5
115 46.2 38.3 57.5

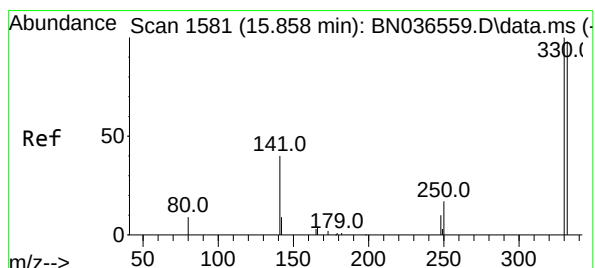
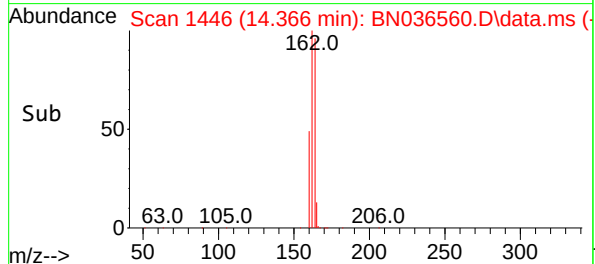
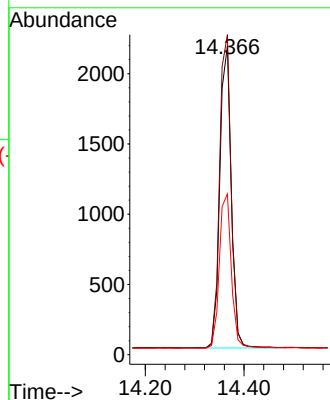
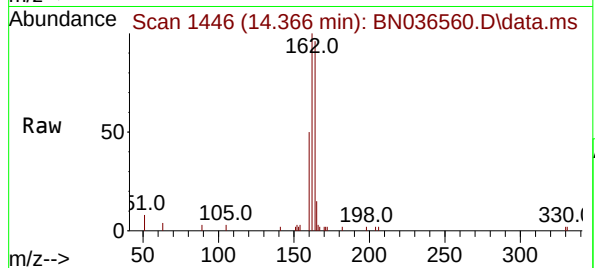




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

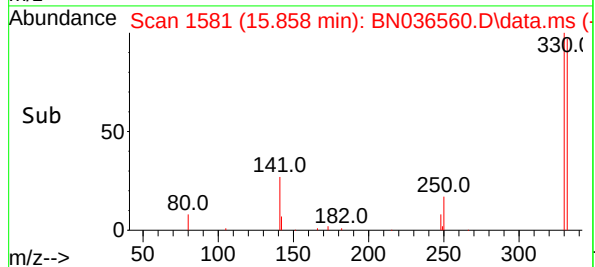
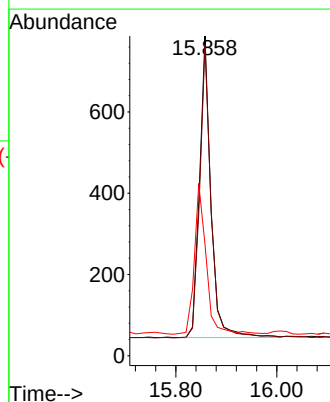
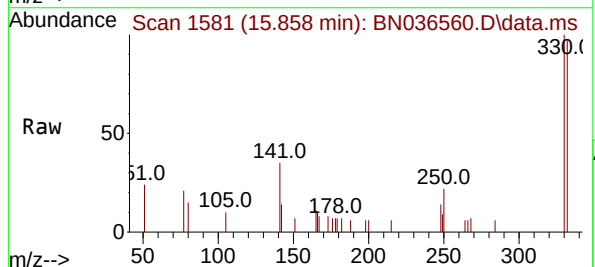
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

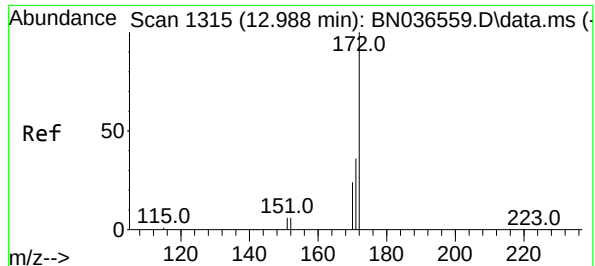
Tgt Ion	164	Resp	3456
Ion Ratio	100		
Lower	84.2		
Upper	126.2		



#14
2,4,6-Tribromophenol
Concen: 0.744 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion	330	Resp	1166
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower	75.2		
Upper	112.8		





#15

2-Fluorobiphenyl

Concen: 0.808 ng

RT: 12.988 min Scan# 1315

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

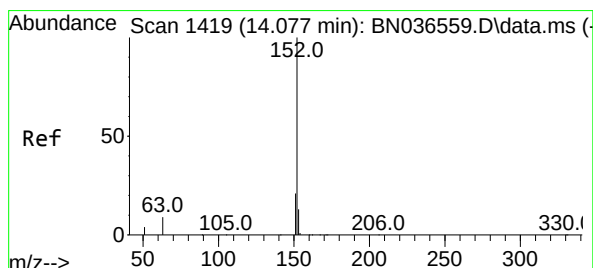
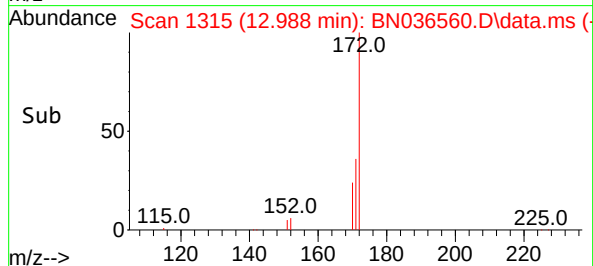
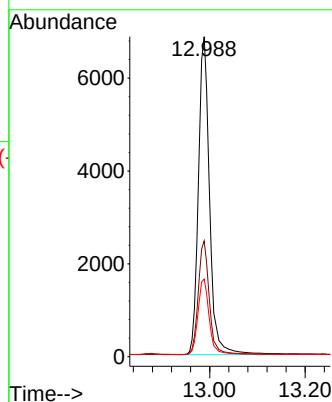
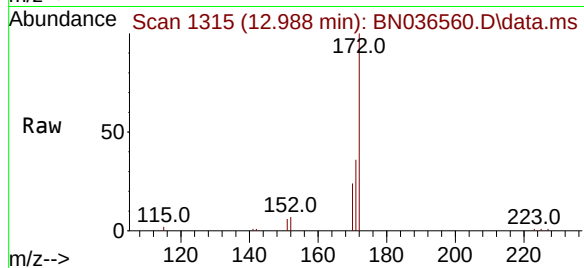
Tgt Ion:172 Resp: 16243

Ion Ratio Lower Upper

172 100

171 36.2 29.5 44.3

170 24.3 20.2 30.4



#16

Acenaphthylene

Concen: 0.760 ng

RT: 14.078 min Scan# 1419

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

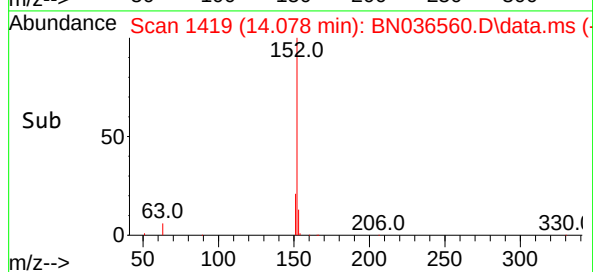
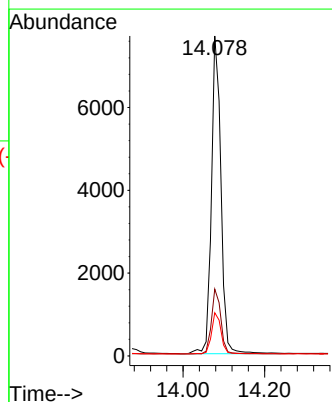
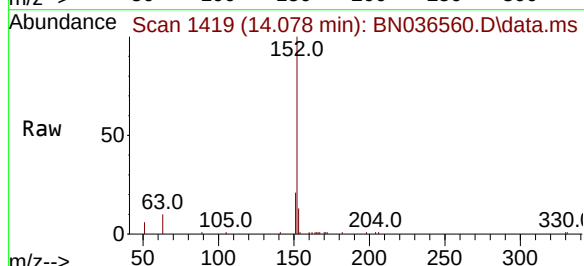
Tgt Ion:152 Resp: 12403

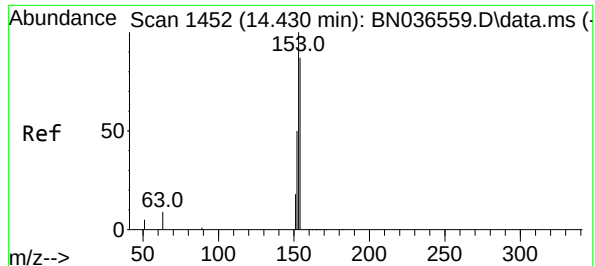
Ion Ratio Lower Upper

152 100

151 20.1 16.2 24.4

153 13.1 10.6 15.8





#17

Acenaphthene

Concen: 0.758 ng

RT: 14.430 min Scan# 1452

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

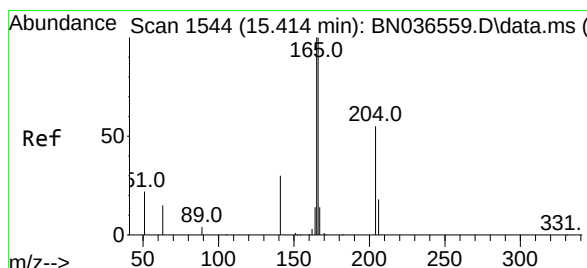
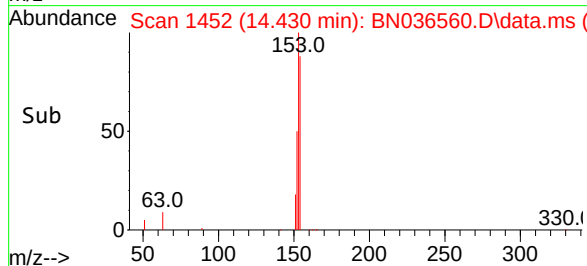
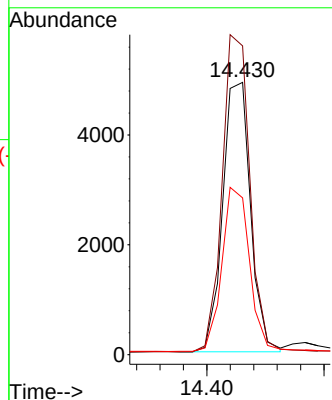
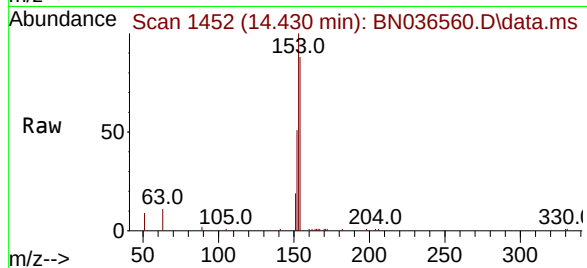
Tgt Ion:154 Resp: 8096

Ion Ratio Lower Upper

154 100

153 117.8 94.1 141.1

152 60.9 49.8 74.6



#18

Fluorene

Concen: 0.770 ng

RT: 15.414 min Scan# 1544

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

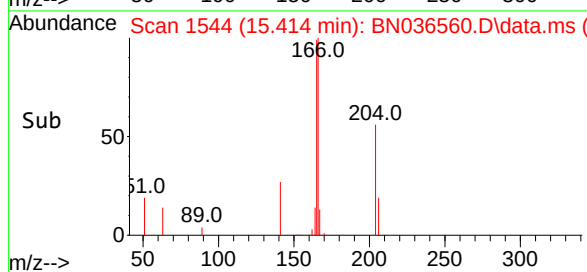
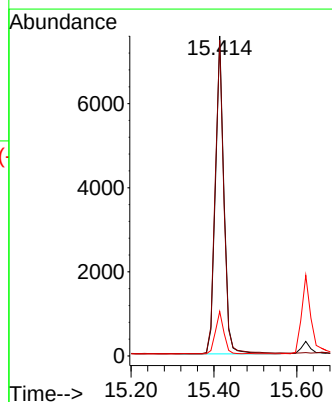
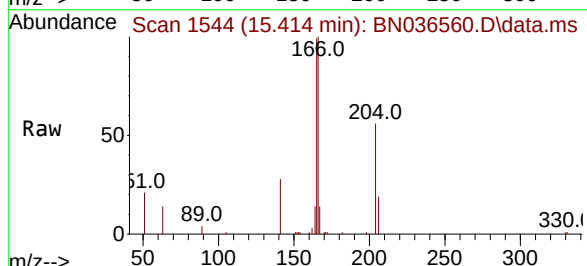
Tgt Ion:166 Resp: 11120

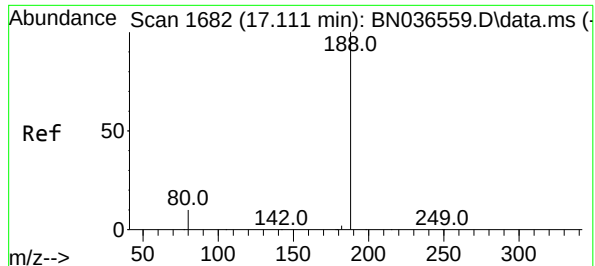
Ion Ratio Lower Upper

166 100

165 99.8 79.8 119.8

167 13.3 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

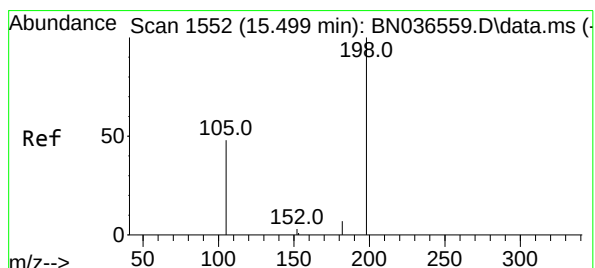
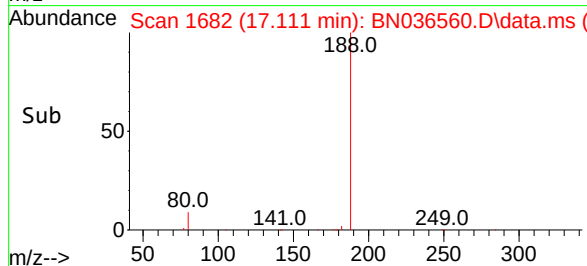
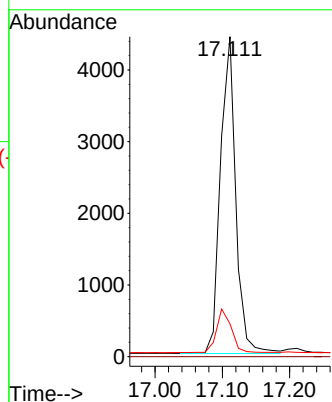
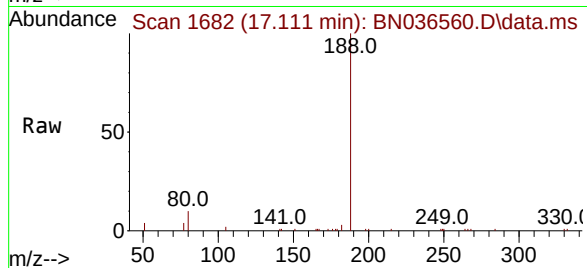
Tgt Ion:188 Resp: 6971

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.3 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.724 ng

RT: 15.499 min Scan# 1552

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

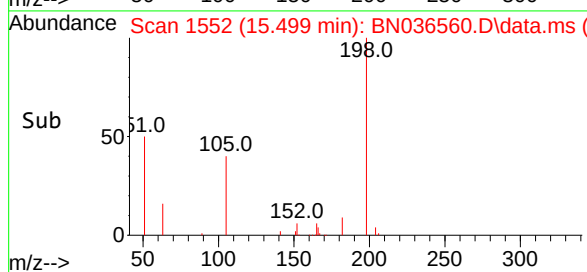
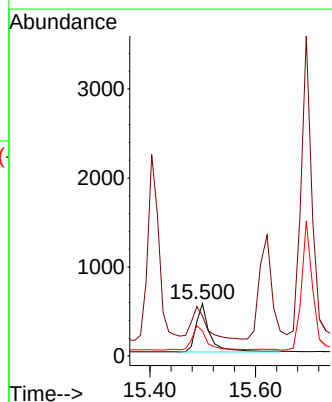
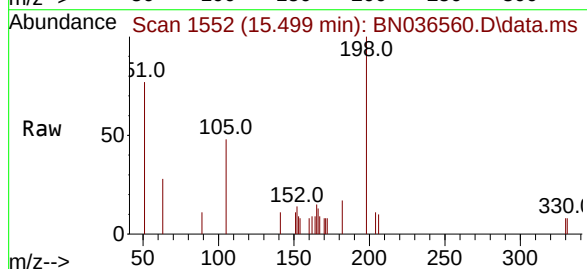
Tgt Ion:198 Resp: 1039

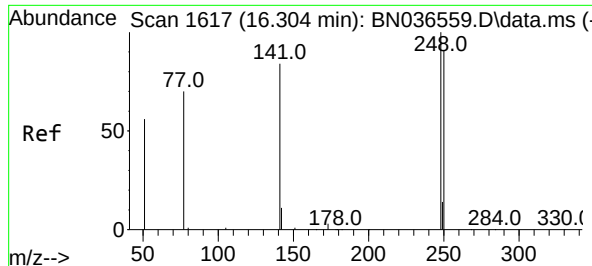
Ion Ratio Lower Upper

198 100

51 76.5 107.9 161.9#

105 48.1 56.2 84.2#

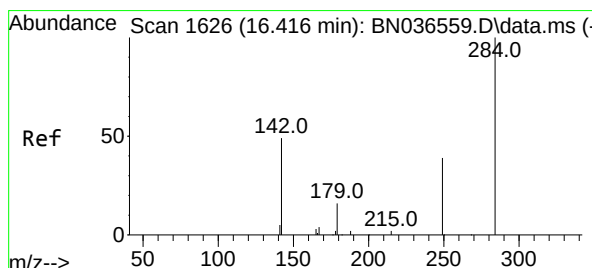
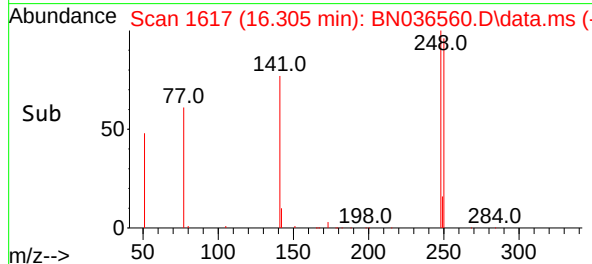
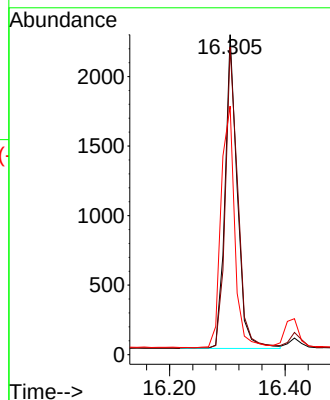
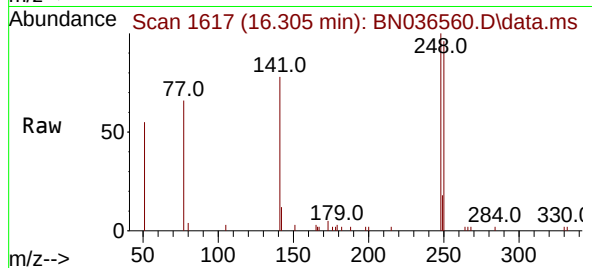




#21
4-Bromophenyl-phenylether
Concen: 0.761 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

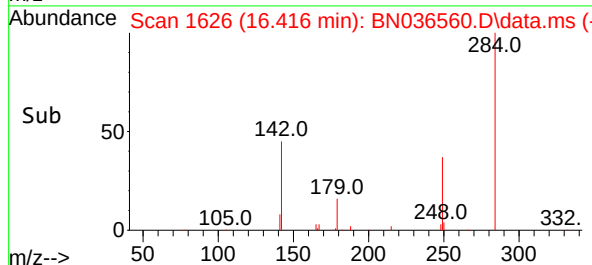
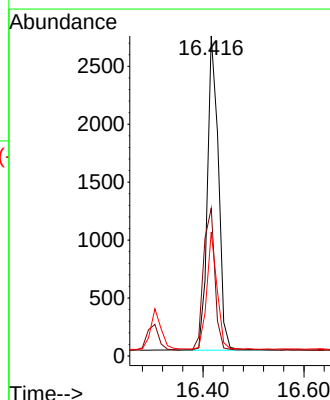
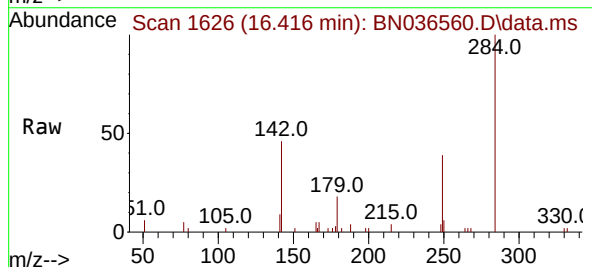
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.8

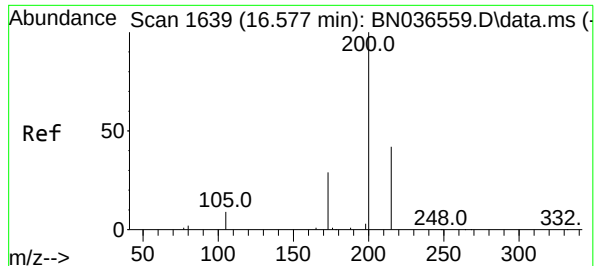
Tgt Ion:248 Resp: 3324
Ion Ratio Lower Upper
248 100
250 96.2 73.0 109.6
141 77.7 68.6 103.0



#22
Hexachlorobenzene
Concen: 0.780 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:284 Resp: 4115
Ion Ratio Lower Upper
284 100
142 47.2 37.0 55.4
249 34.7 28.1 42.1





#23

Atrazine

Concen: 0.764 ng

RT: 16.578 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

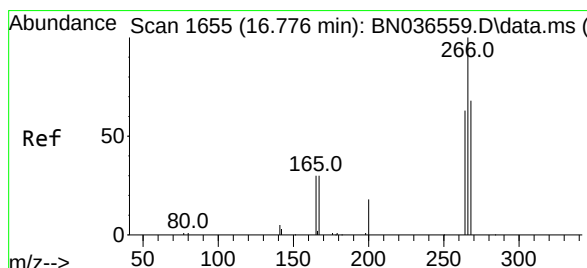
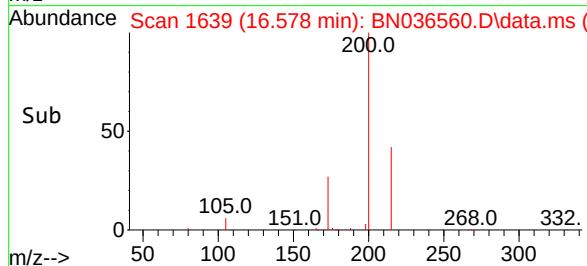
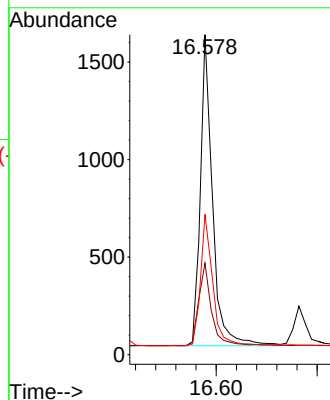
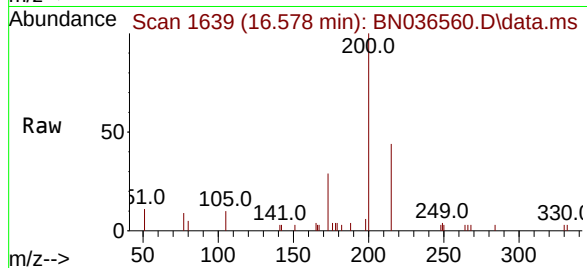
Tgt Ion:200 Resp: 2677

Ion Ratio Lower Upper

200 100

173 28.6 27.3 40.9

215 43.8 36.8 55.2



#24

Pentachlorophenol

Concen: 0.707 ng

RT: 16.764 min Scan# 1654

Delta R.T. -0.012 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

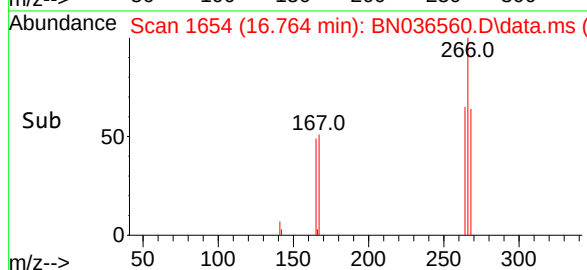
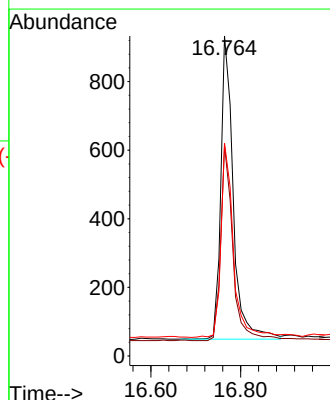
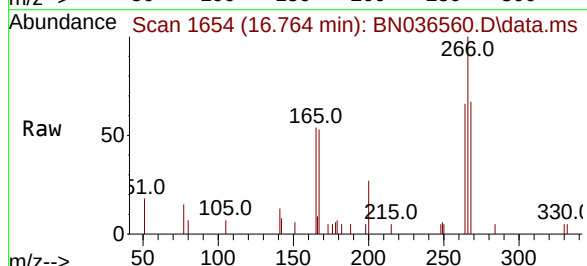
Tgt Ion:266 Resp: 1701

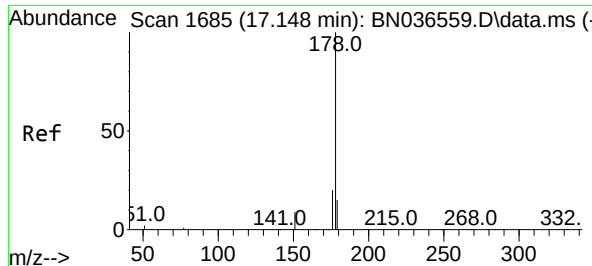
Ion Ratio Lower Upper

266 100

264 63.5 49.6 74.4

268 65.1 50.9 76.3





#25

Phenanthrene

Concen: 0.761 ng

RT: 17.149 min Scan# 1685

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

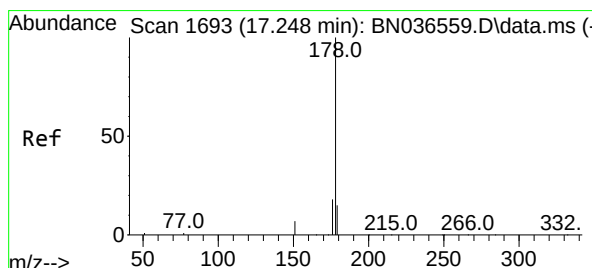
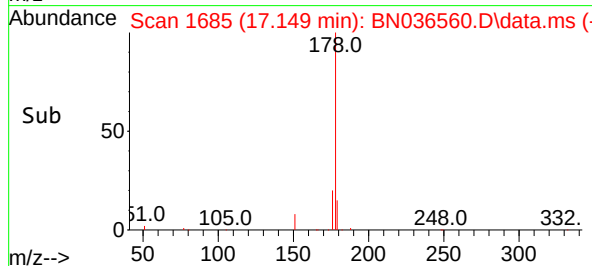
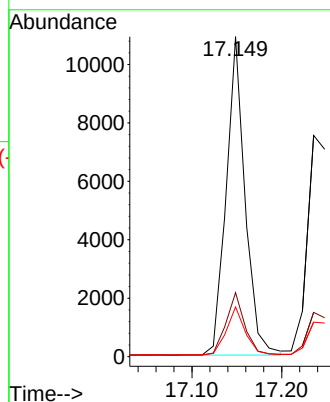
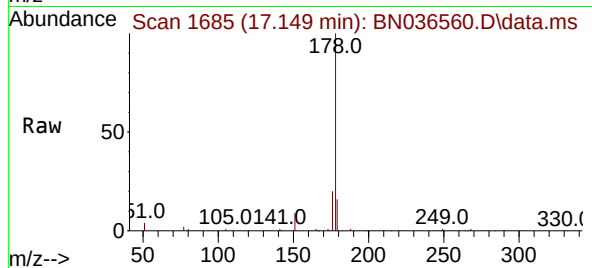
Tgt Ion:178 Resp: 15910

Ion Ratio Lower Upper

178 100

176 19.6 15.9 23.9

179 15.1 12.2 18.4



#26

Anthracene

Concen: 0.763 ng

RT: 17.236 min Scan# 1692

Delta R.T. -0.012 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

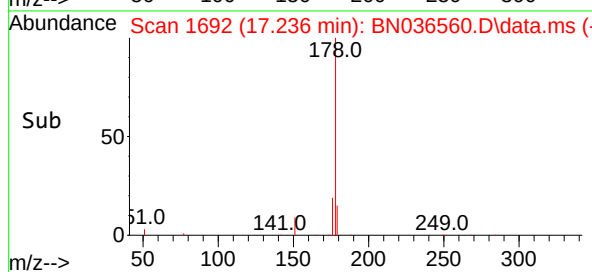
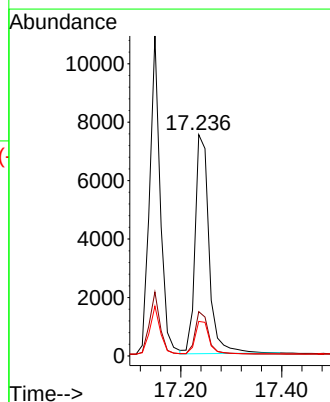
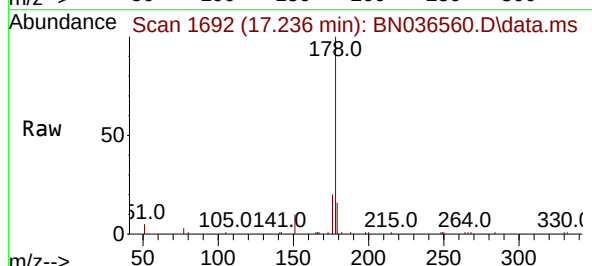
Tgt Ion:178 Resp: 14403

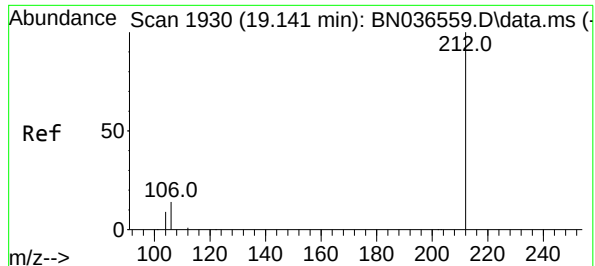
Ion Ratio Lower Upper

178 100

176 18.8 15.4 23.2

179 15.1 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.746 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

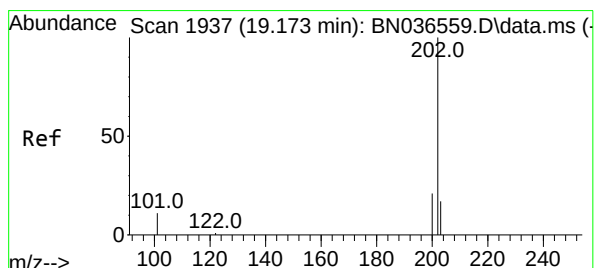
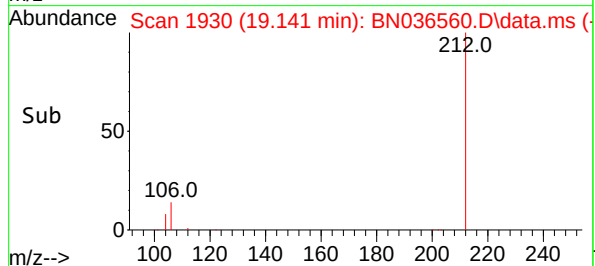
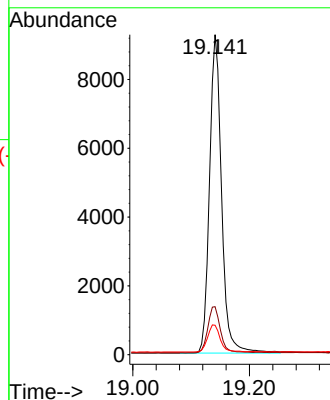
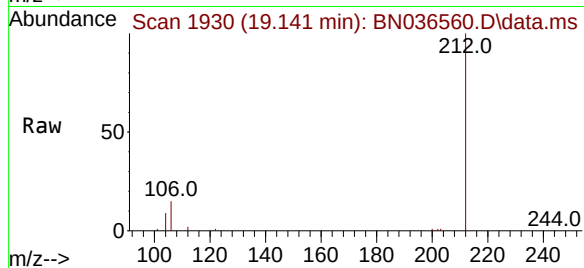
Tgt Ion:212 Resp: 13330

Ion Ratio Lower Upper

212 100

106 15.2 11.8 17.6

104 8.9 7.3 10.9



#28

Fluoranthene

Concen: 0.755 ng

RT: 19.174 min Scan# 1937

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

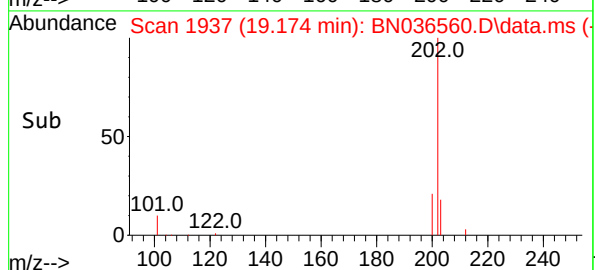
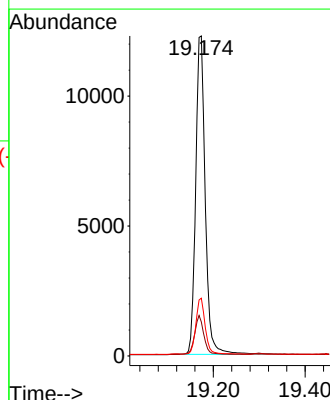
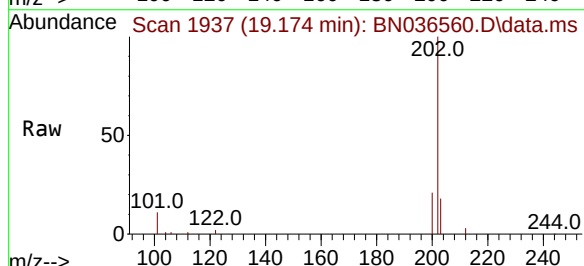
Tgt Ion:202 Resp: 17738

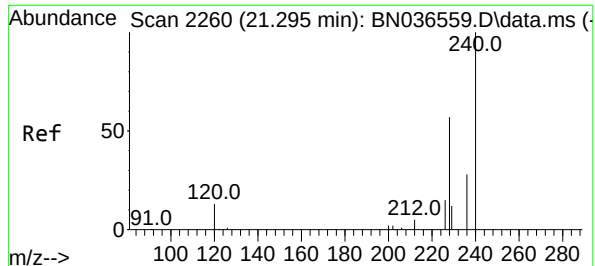
Ion Ratio Lower Upper

202 100

101 12.1 9.4 14.0

203 17.0 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

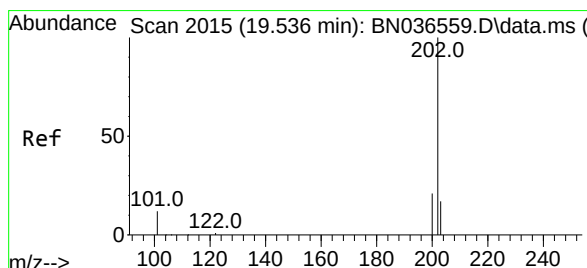
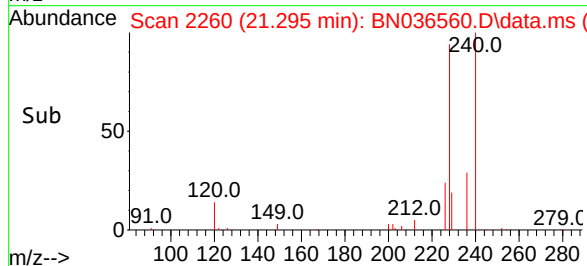
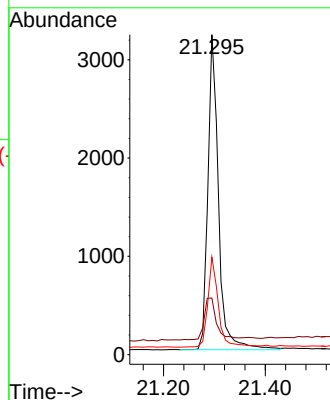
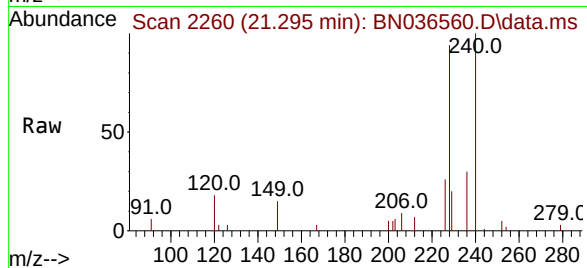
Tgt Ion:240 Resp: 4636

Ion Ratio Lower Upper

240 100

120 17.7 14.6 22.0

236 30.5 24.1 36.1



#30

Pyrene

Concen: 0.781 ng

RT: 19.536 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

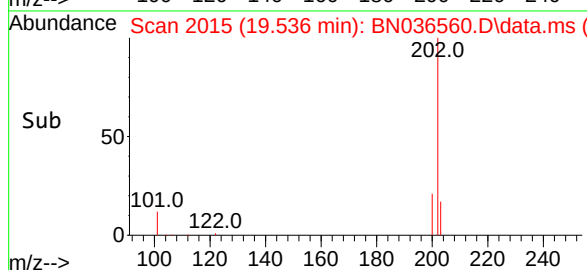
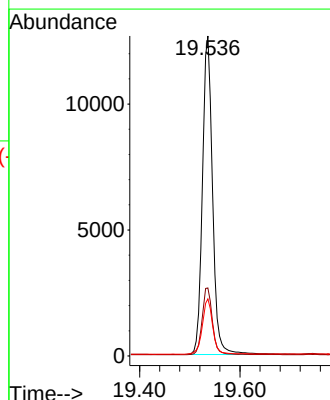
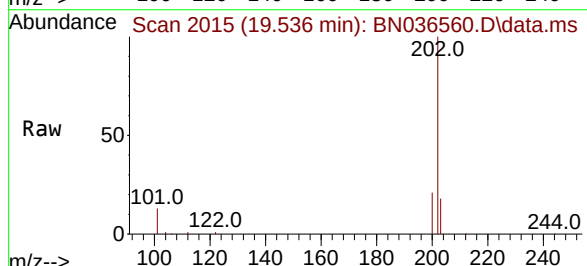
Tgt Ion:202 Resp: 17714

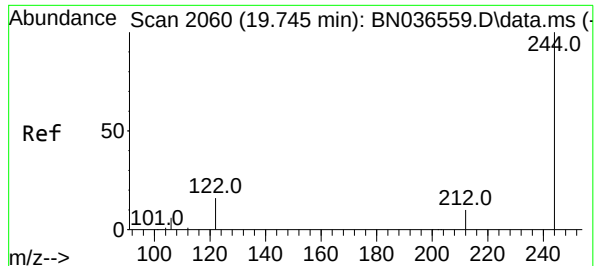
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.5 14.1 21.1





#31

Terphenyl-d14

Concen: 0.772 ng

RT: 19.745 min Scan# 2060

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

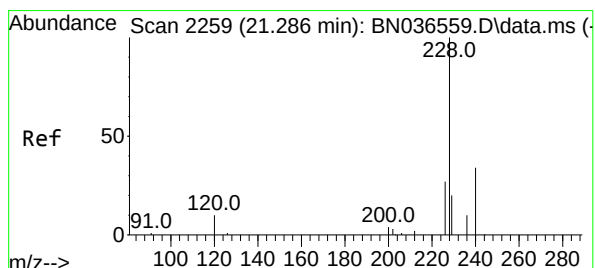
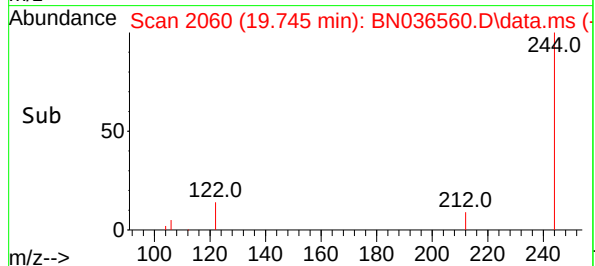
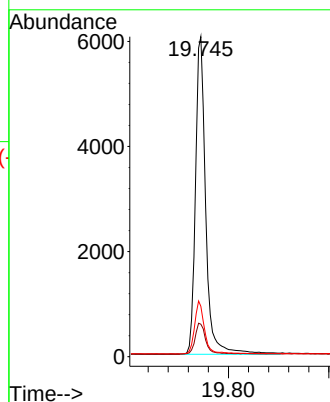
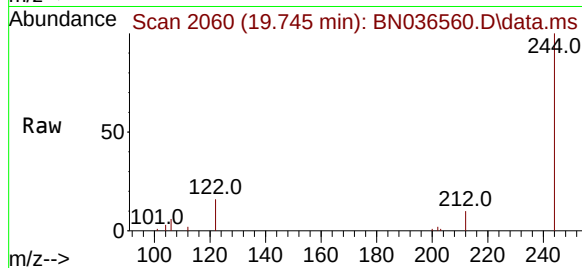
Tgt Ion:244 Resp: 8571

Ion Ratio Lower Upper

244 100

212 10.1 9.6 14.4

122 15.8 13.9 20.9



#32

Benzo(a)anthracene

Concen: 0.750 ng

RT: 21.277 min Scan# 2258

Delta R.T. -0.009 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

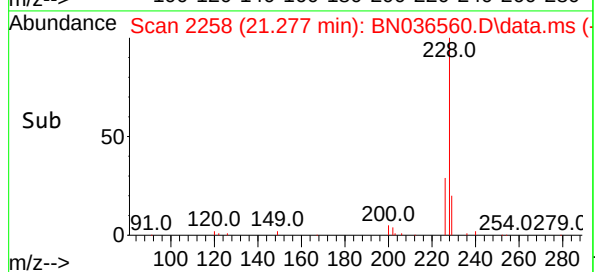
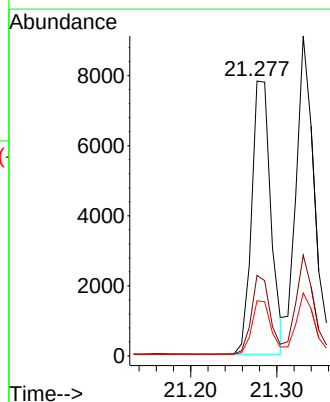
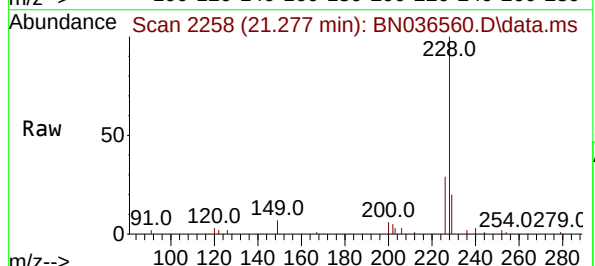
Tgt Ion:228 Resp: 12089

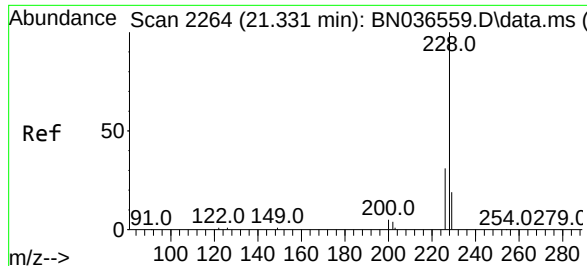
Ion Ratio Lower Upper

228 100

226 29.3 22.5 33.7

229 20.1 16.6 25.0





#33

Chrysene

Concen: 0.793 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

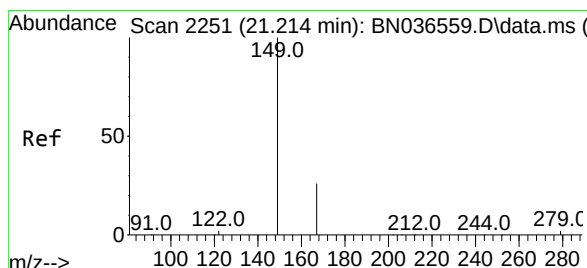
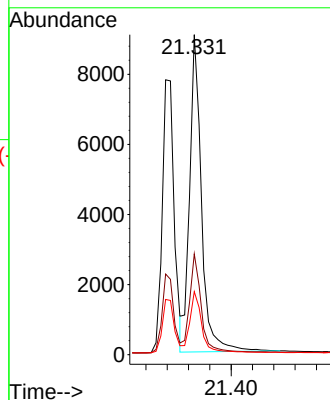
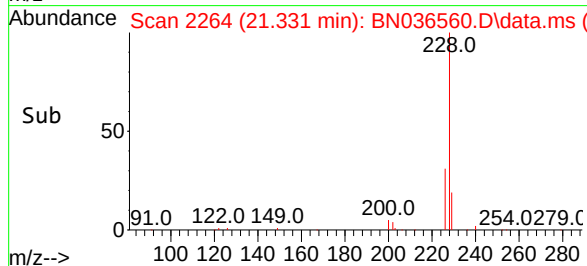
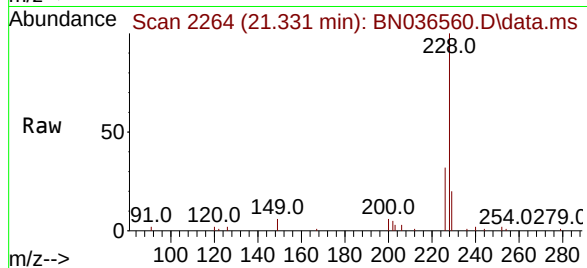
Tgt Ion:228 Resp: 13974

Ion Ratio Lower Upper

228 100

226 31.5 25.3 37.9

229 19.7 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.699 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

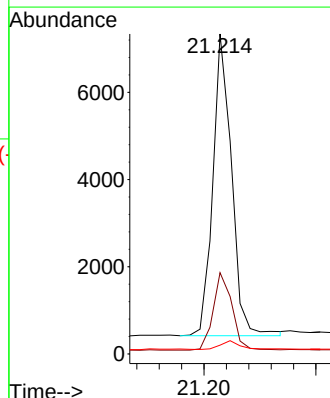
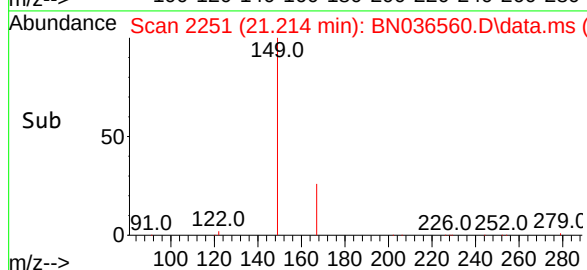
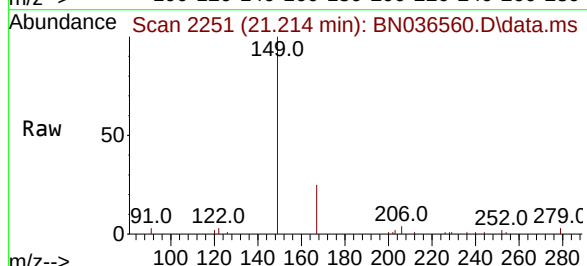
Tgt Ion:149 Resp: 8021

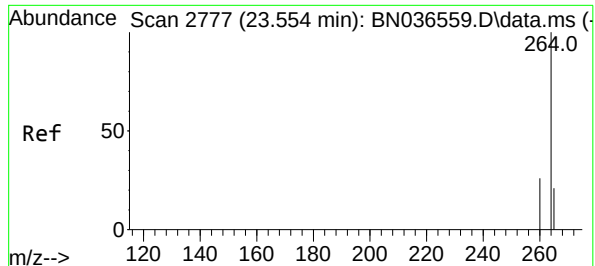
Ion Ratio Lower Upper

149 100

167 25.9 20.7 31.1

279 3.2 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

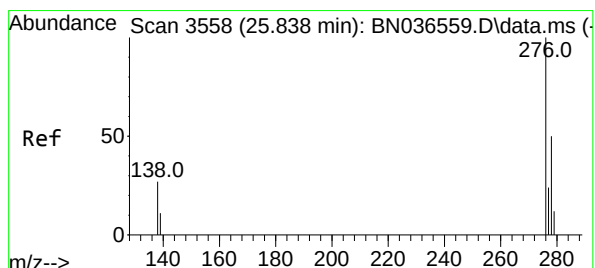
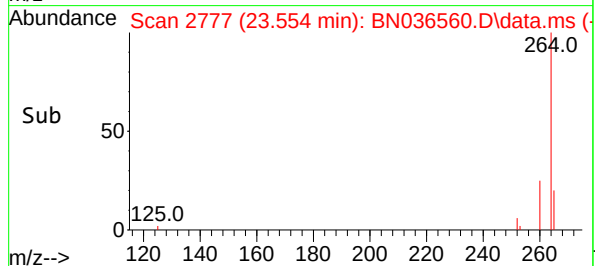
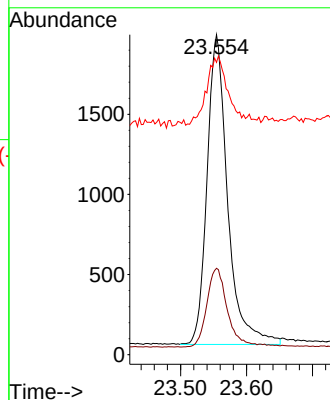
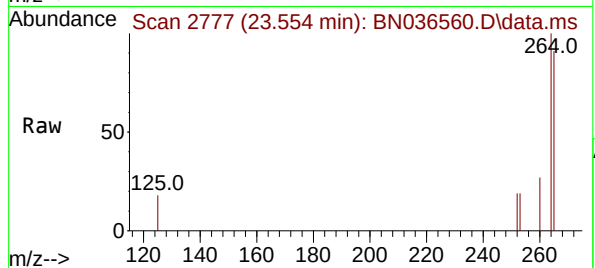
Tgt Ion:264 Resp: 4198

Ion Ratio Lower Upper

264 100

260 27.0 22.6 33.8

265 91.3 88.1 132.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.778 ng

RT: 25.838 min Scan# 3558

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

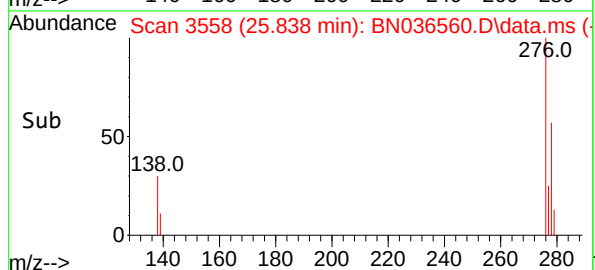
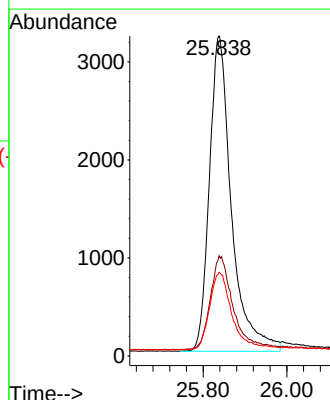
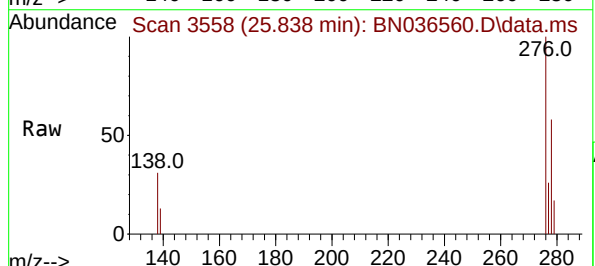
Tgt Ion:276 Resp: 11785

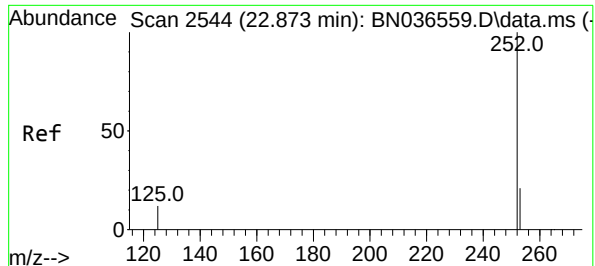
Ion Ratio Lower Upper

276 100

138 29.6 23.4 35.2

277 24.7 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.770 ng

RT: 22.873 min Scan# 2544

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

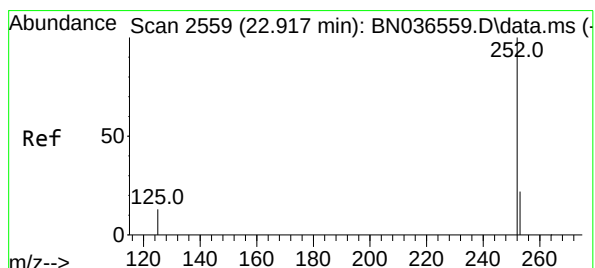
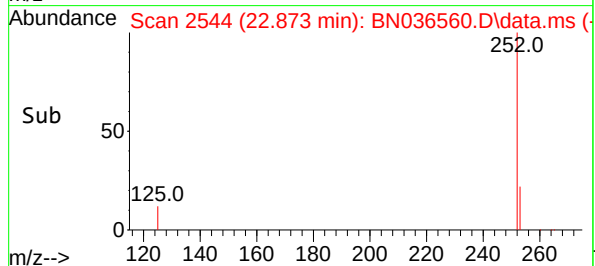
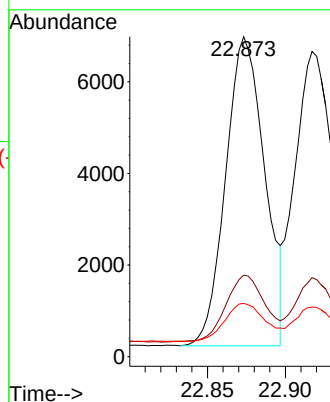
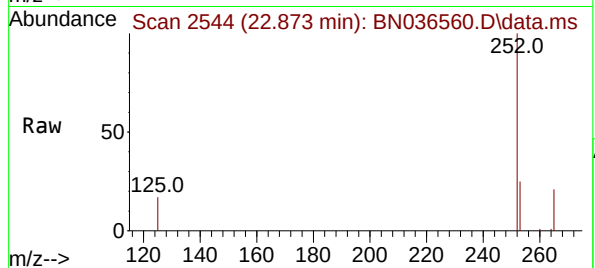
Tgt Ion:252 Resp: 11771

Ion Ratio Lower Upper

252 100

253 25.5 23.9 35.9

125 16.7 17.4 26.2#



#38

Benzo(k)fluoranthene

Concen: 0.776 ng

RT: 22.917 min Scan# 2559

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

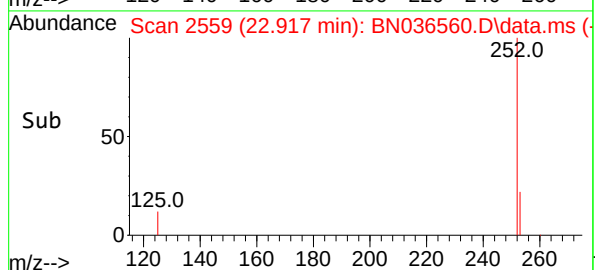
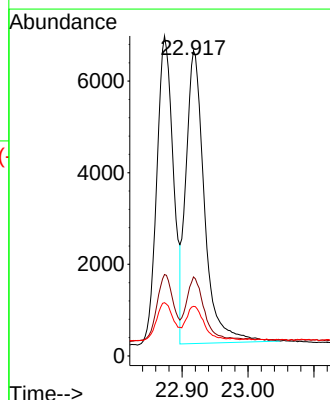
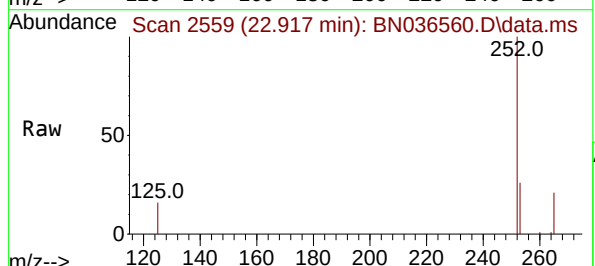
Tgt Ion:252 Resp: 12432

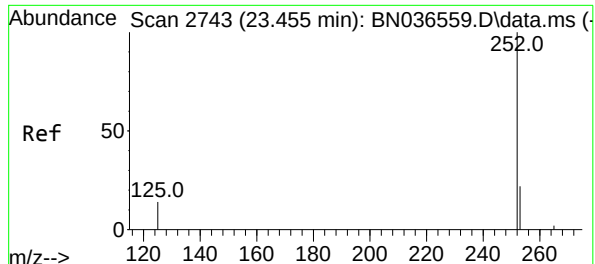
Ion Ratio Lower Upper

252 100

253 25.9 24.6 36.8

125 16.2 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 0.780 ng

RT: 23.455 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

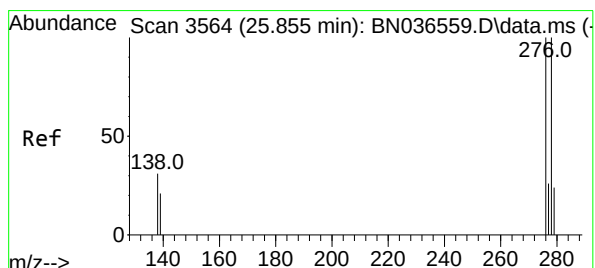
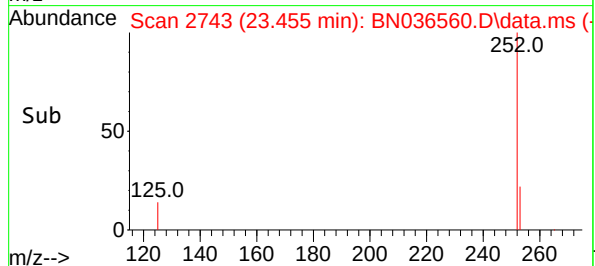
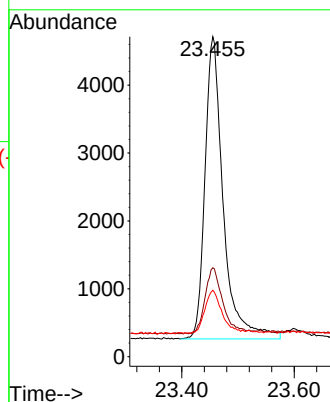
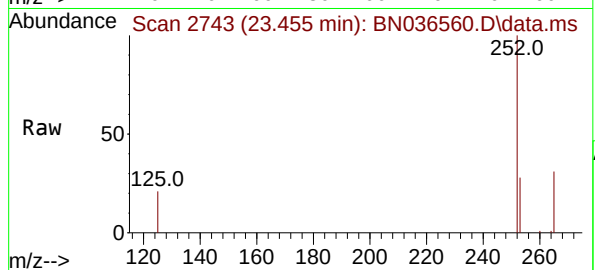
Tgt Ion:252 Resp: 10036

Ion Ratio Lower Upper

252 100

253 27.8 27.8 41.8#

125 20.7 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.801 ng

RT: 25.858 min Scan# 3565

Delta R.T. 0.003 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

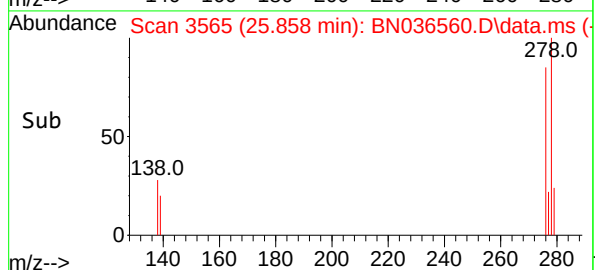
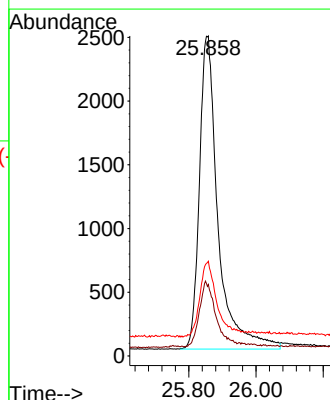
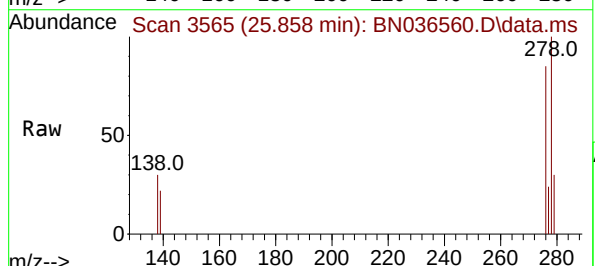
Tgt Ion:278 Resp: 9450

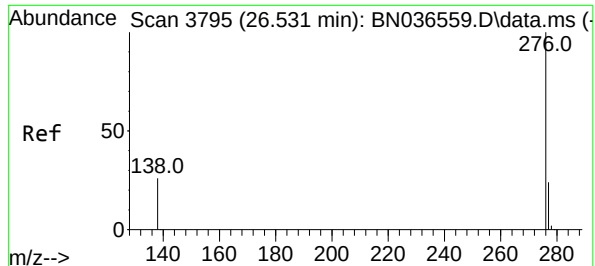
Ion Ratio Lower Upper

278 100

139 22.3 20.8 31.2

279 29.6 28.8 43.2





#41

Benzo(g,h,i)perylene

Concen: 0.778 ng

RT: 26.534 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN036560.D

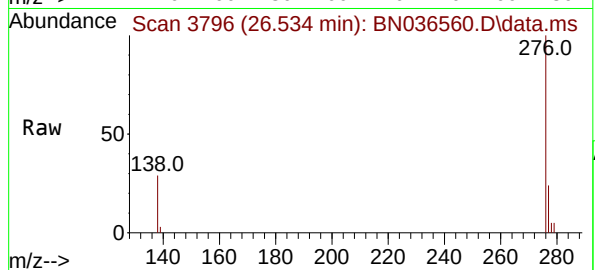
Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



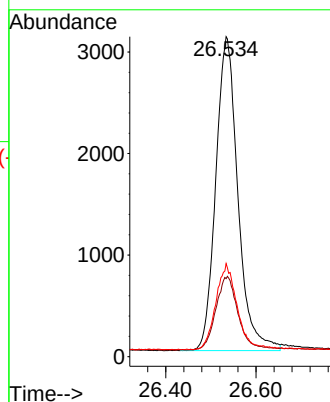
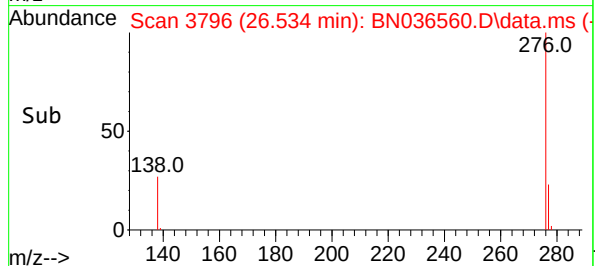
Tgt Ion:276 Resp: 10494

Ion Ratio Lower Upper

276 100

277 24.4 22.2 33.4

138 29.1 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036561.D
 Acq On : 10 Mar 2025 14:07
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Mar 10 16:02:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

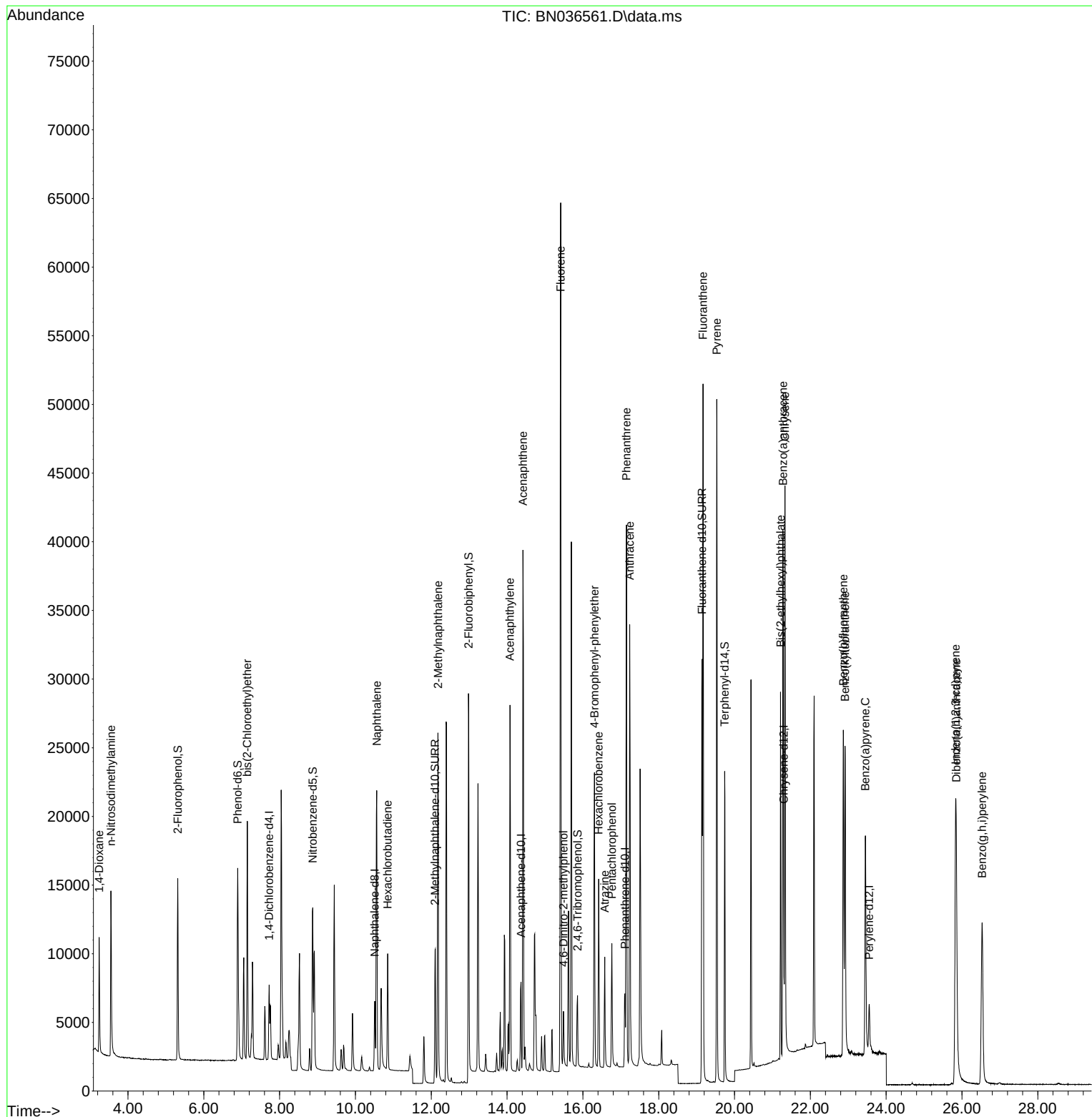
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2537	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	6200	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3827	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	8149	0.400	ng	0.00
29) Chrysene-d12	21.295	240	5977	0.400	ng	# 0.00
35) Perylene-d12	23.552	264	5048	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	9276	1.569	ng	0.00
5) Phenol-d6	6.894	99	11493	1.574	ng	0.00
8) Nitrobenzene-d5	8.875	82	9959	1.477	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	14319	1.553	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	2872	1.654	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	36192	1.626	ng	0.00
27) Fluoranthene-d10	19.141	212	33414	1.600	ng	0.00
31) Terphenyl-d14	19.740	244	21872	1.527	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	4464	1.586	ng	98
3) n-Nitrosodimethylamine	3.550	42	8625	1.515	ng	# 96
6) bis(2-Chloroethyl)ether	7.147	93	11485	1.521	ng	99
9) Naphthalene	10.562	128	27473	1.506	ng	97
10) Hexachlorobutadiene	10.851	225	6466	1.506	ng	# 99
12) 2-Methylnaphthalene	12.177	142	18206	1.569	ng	98
16) Acenaphthylene	14.078	152	28080	1.555	ng	100
17) Acenaphthene	14.420	154	18355	1.553	ng	98
18) Fluorene	15.414	166	25565	1.599	ng	99
20) 4,6-Dinitro-2-methylph...	15.489	198	2879	1.488	ng	# 64
21) 4-Bromophenyl-phenylether	16.305	248	7859	1.539	ng	# 85
22) Hexachlorobenzene	16.416	284	9216	1.495	ng	100
23) Atrazine	16.578	200	6530	1.595	ng	# 91
24) Pentachlorophenol	16.764	266	4395	1.563	ng	99
25) Phenanthrene	17.149	178	37989	1.554	ng	99
26) Anthracene	17.235	178	35054	1.589	ng	99
28) Fluoranthene	19.169	202	44451	1.619	ng	99
30) Pyrene	19.531	202	44705	1.530	ng	100
32) Benzo(a)anthracene	21.277	228	32205	1.550	ng	98
33) Chrysene	21.331	228	34953	1.539	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	22621	1.529	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.832	276	28605	1.570	ng	99
37) Benzo(b)fluoranthene	22.870	252	29819	1.623	ng	# 86
38) Benzo(k)fluoranthene	22.917	252	30710	1.593	ng	# 85
39) Benzo(a)pyrene	23.452	252	24696	1.596	ng	# 79
40) Dibenzo(a,h)anthracene	25.850	278	22248	1.569	ng	# 85
41) Benzo(g,h,i)perylene	26.531	276	24906	1.535	ng	93

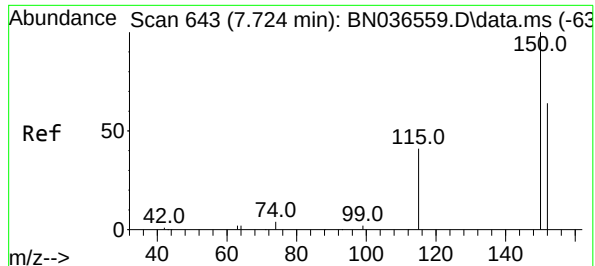
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036561.D
Acq On : 10 Mar 2025 14:07
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Mar 10 16:02:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

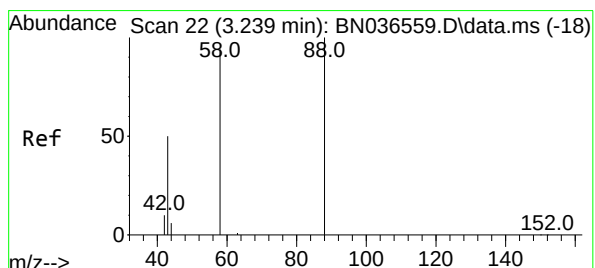
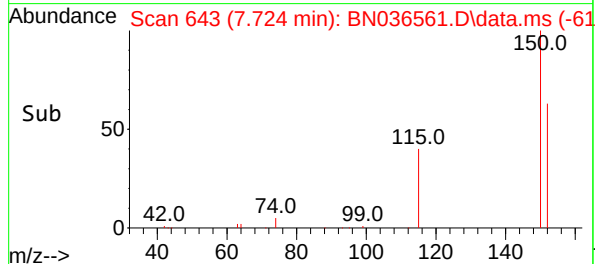
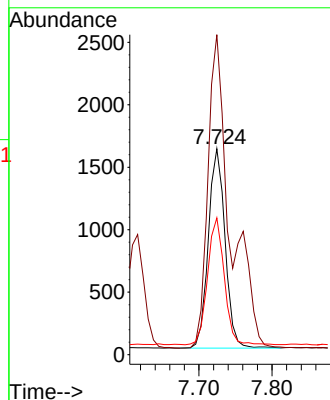
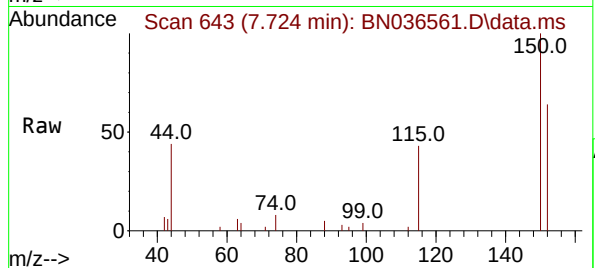




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

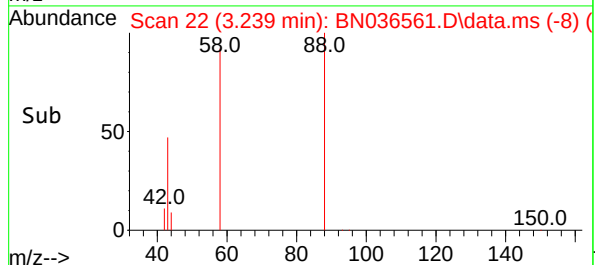
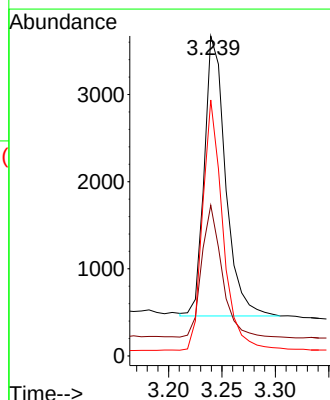
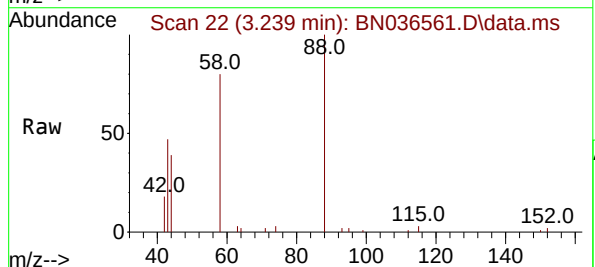
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

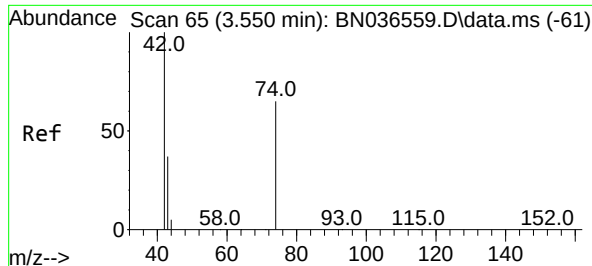
Tgt Ion:152 Resp: 2537
Ion Ratio Lower Upper
152 100
150 155.4 123.7 185.5
115 66.4 54.3 81.5



#2
1,4-Dioxane
Concen: 1.586 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion: 88 Resp: 4464
Ion Ratio Lower Upper
88 100
43 45.1 37.8 56.8
58 85.6 67.4 101.2

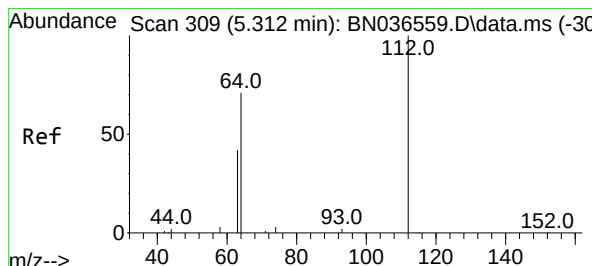
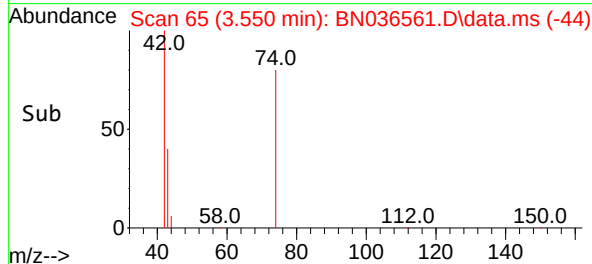
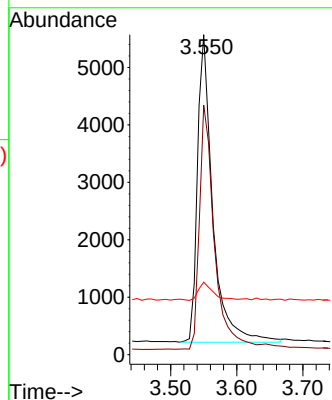
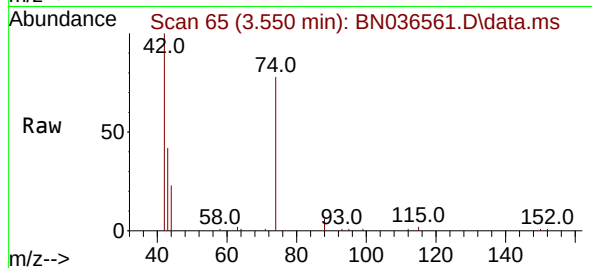




#3
n-Nitrosodimethylamine
Concen: 1.515 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

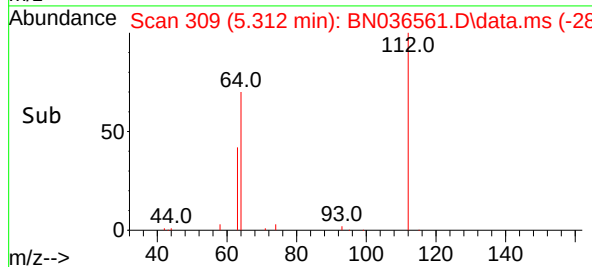
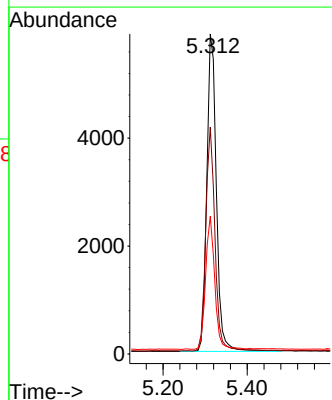
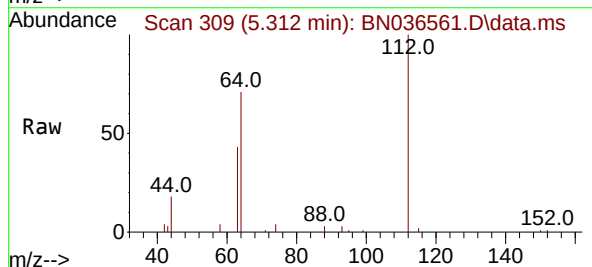
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

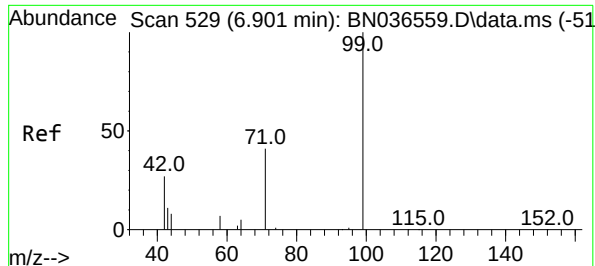
Tgt Ion: 42 Resp: 8625
Ion Ratio Lower Upper
42 100
74 79.2 60.6 90.8
44 5.8 6.3 9.5#



#4
2-Fluorophenol
Concen: 1.569 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion: 112 Resp: 9276
Ion Ratio Lower Upper
112 100
64 68.3 53.1 79.7
63 40.1 31.8 47.8

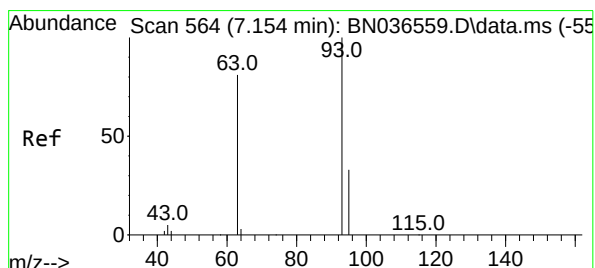
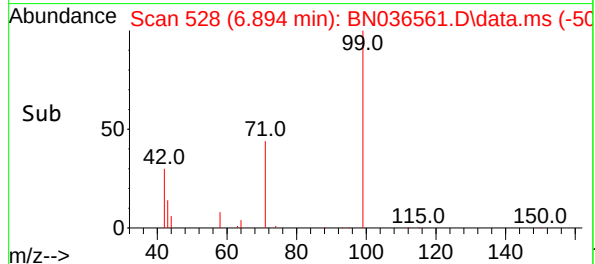
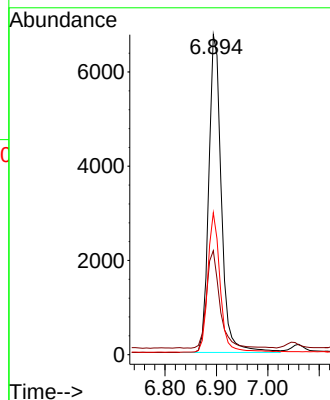
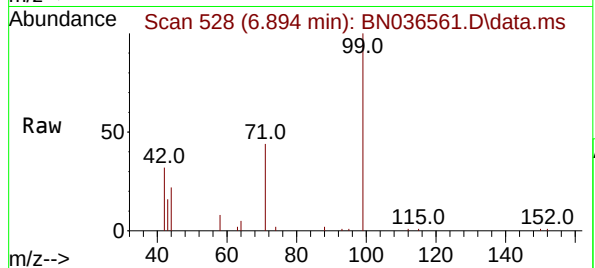




#5
Phenol-d6
Concen: 1.574 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

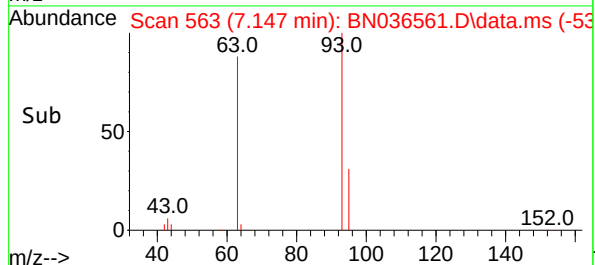
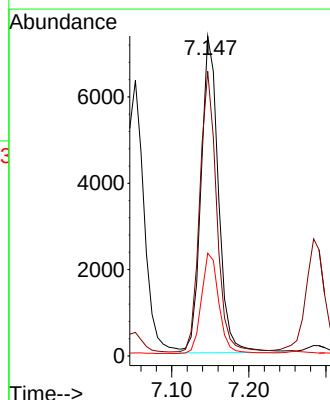
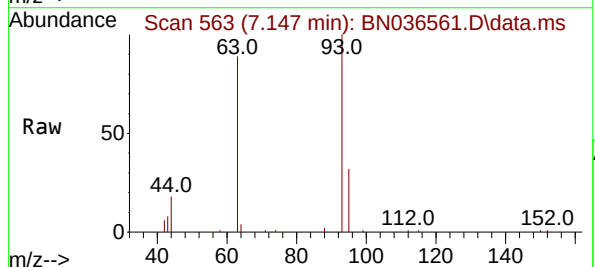
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

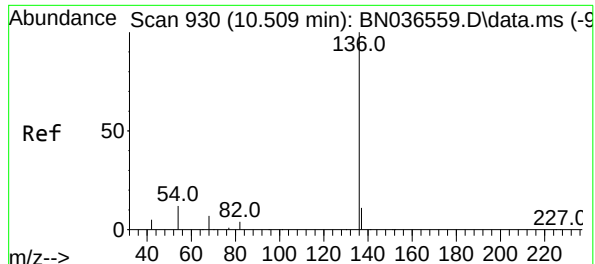
Tgt Ion: 99 Resp: 11493
Ion Ratio Lower Upper
99 100
42 32.6 26.5 39.7
71 43.3 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 1.521 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion: 93 Resp: 11485
Ion Ratio Lower Upper
93 100
63 85.8 67.7 101.5
95 31.8 25.6 38.4

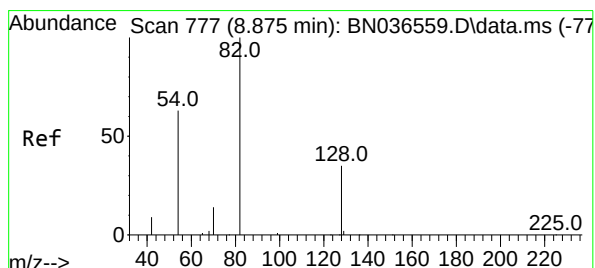
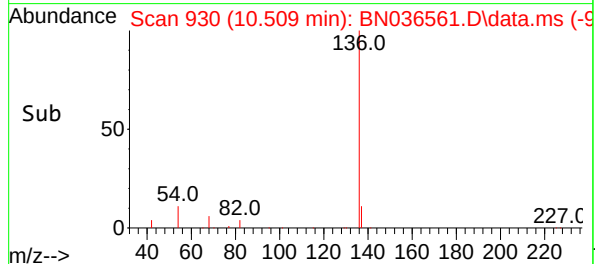
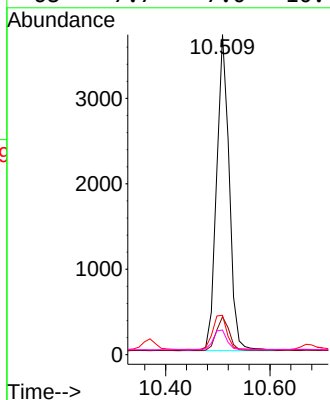
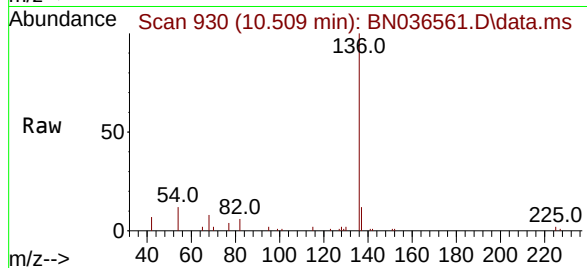




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

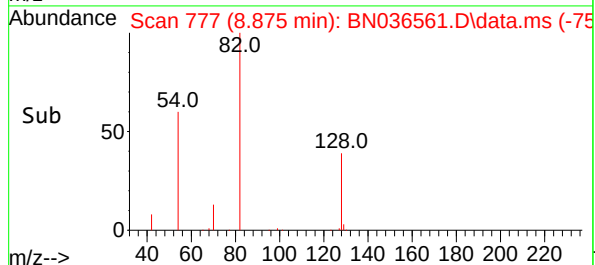
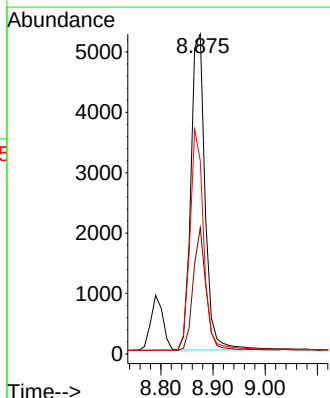
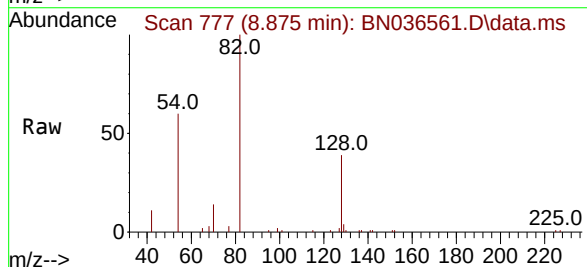
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

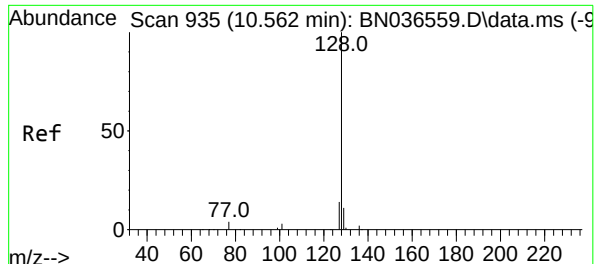
Tgt Ion:	136	Resp:	6200
Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.3	15.5
54	12.3	11.5	17.3
68	7.7	7.0	10.4



#8
Nitrobenzene-d5
Concen: 1.477 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:	82	Resp:	9959
Ion	Ratio	Lower	Upper
82	100		
128	39.4	30.6	45.8
54	60.4	52.2	78.4





#9

Naphthalene

Concen: 1.506 ng

RT: 10.562 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

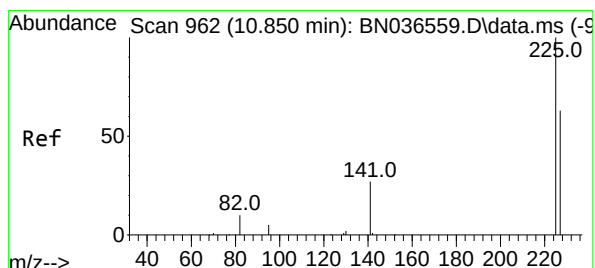
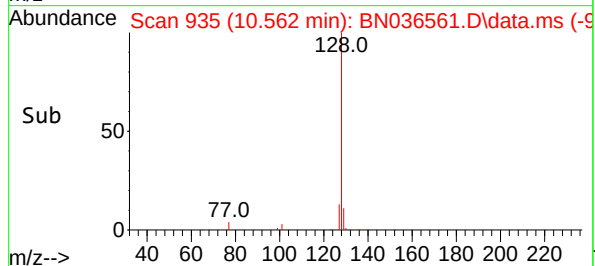
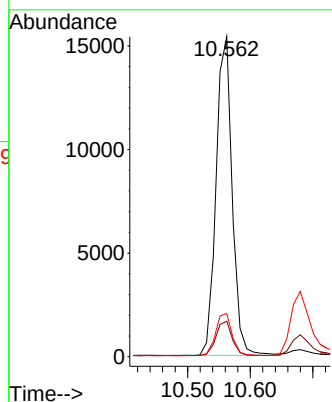
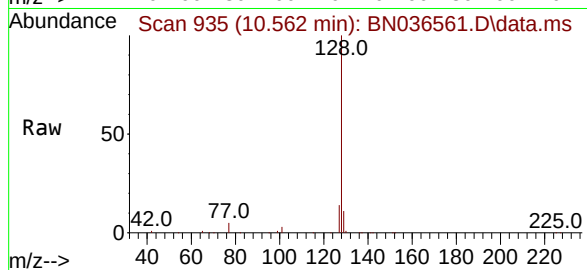
Tgt Ion:128 Resp: 27473

Ion Ratio Lower Upper

128 100

129 11.1 9.8 14.6

127 13.5 11.8 17.8



#10

Hexachlorobutadiene

Concen: 1.506 ng

RT: 10.851 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

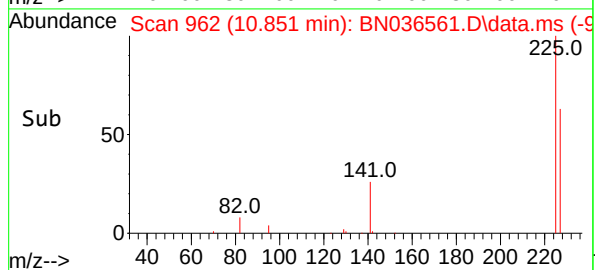
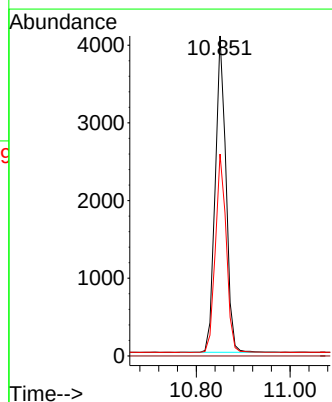
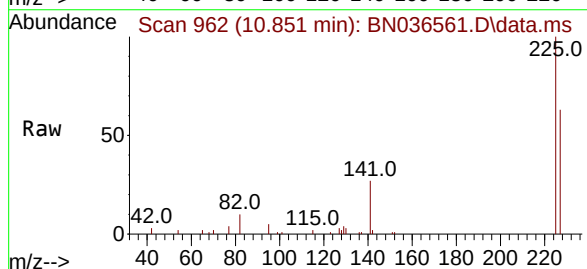
Tgt Ion:225 Resp: 6466

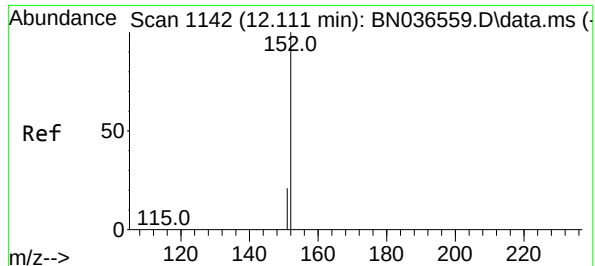
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.8 51.8 77.8

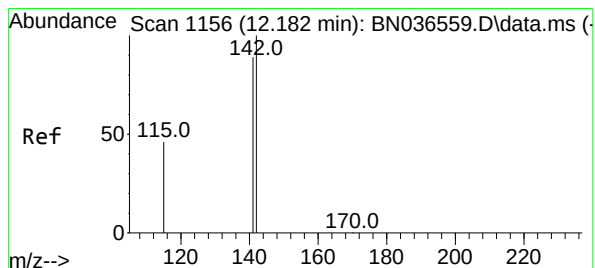
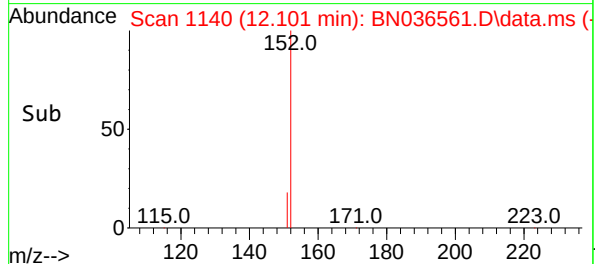
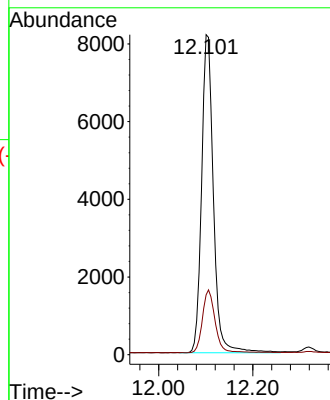
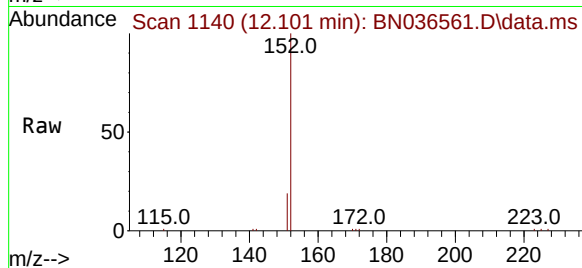




#11
2-Methylnaphthalene-d10
Concen: 1.553 ng
RT: 12.101 min Scan# 1142
Delta R.T. -0.010 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

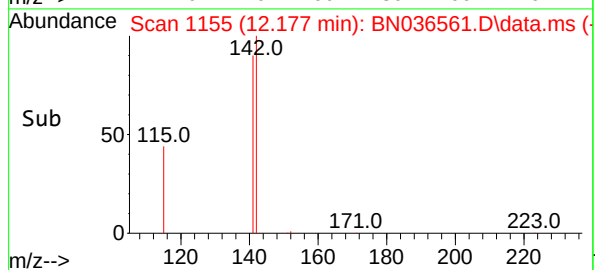
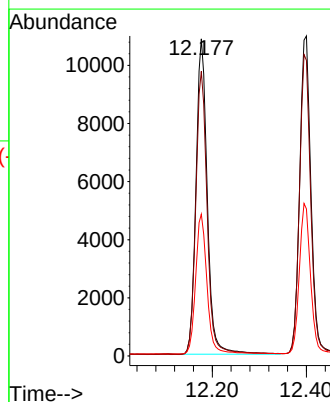
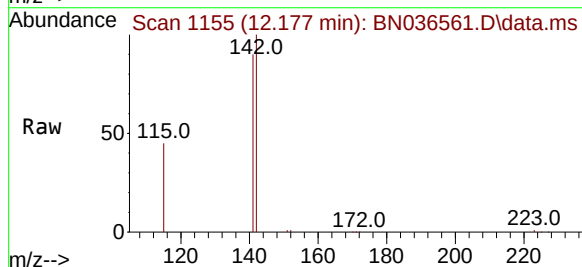
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

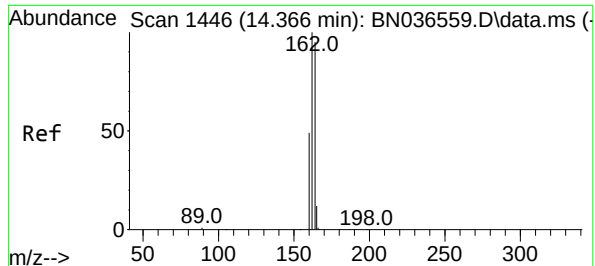
Tgt Ion:152 Resp: 14319
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#12
2-Methylnaphthalene
Concen: 1.569 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:142 Resp: 18206
Ion Ratio Lower Upper
142 100
141 89.7 71.7 107.5
115 44.7 38.3 57.5

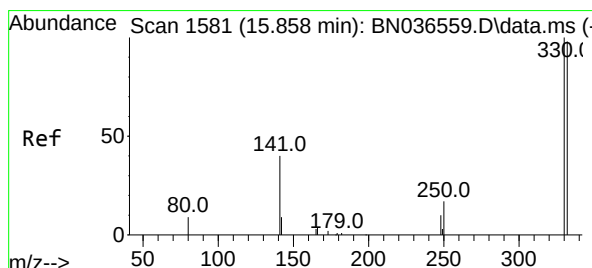
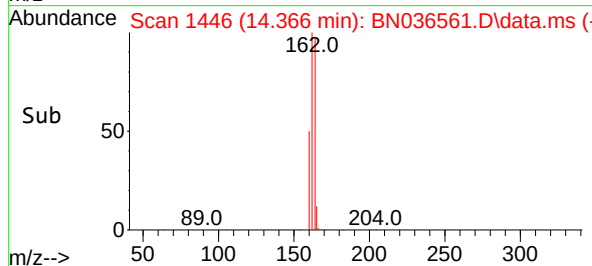
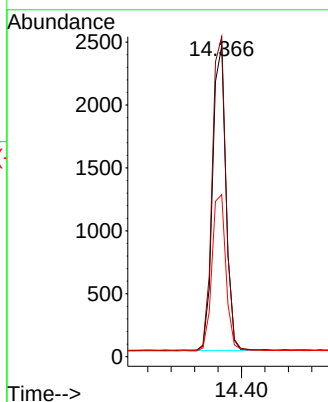
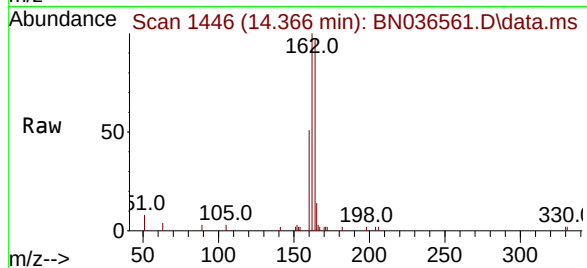




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

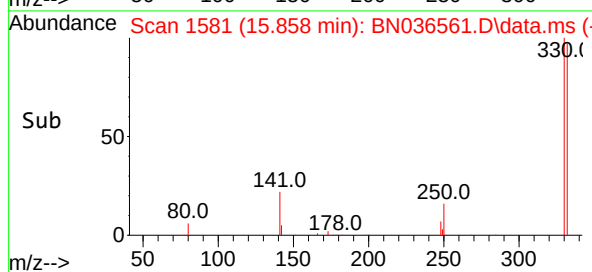
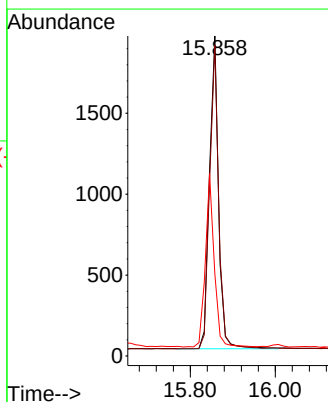
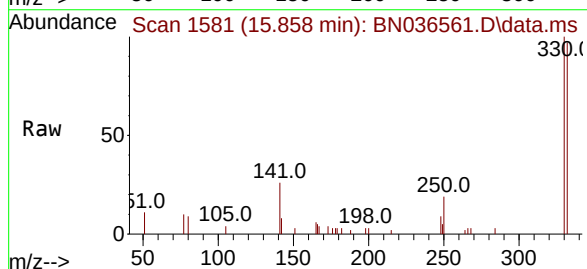
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

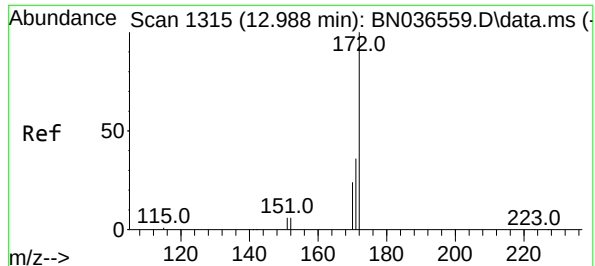
Tgt Ion:164 Resp: 3827
Ion Ratio Lower Upper
164 100
162 102.9 84.2 126.2
160 52.1 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 1.654 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:330 Resp: 2872
Ion Ratio Lower Upper
330 100
332 96.3 75.2 112.8
141 53.8 43.4 65.2





#15

2-Fluorobiphenyl

Concen: 1.626 ng

RT: 12.983 min Scan# 1314

Delta R.T. -0.005 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

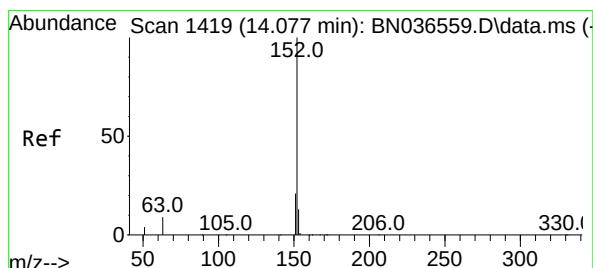
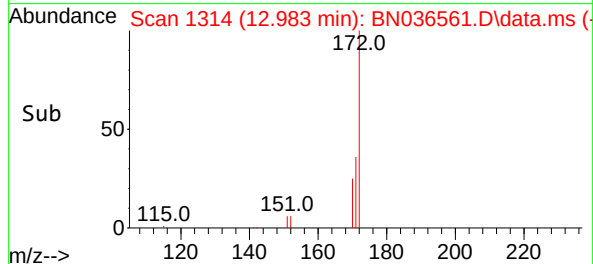
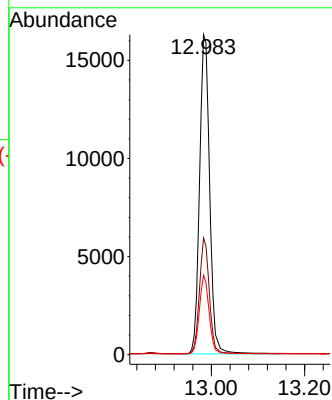
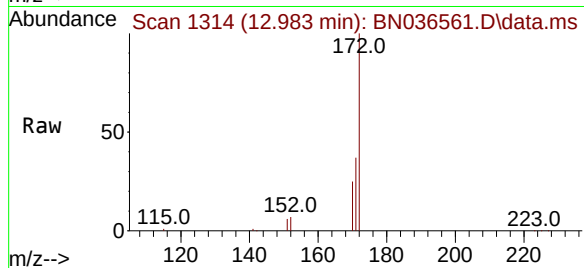
Tgt Ion:172 Resp: 36192

Ion Ratio Lower Upper

172 100

171 36.5 29.5 44.3

170 24.9 20.2 30.4



#16

Acenaphthylene

Concen: 1.555 ng

RT: 14.078 min Scan# 1419

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

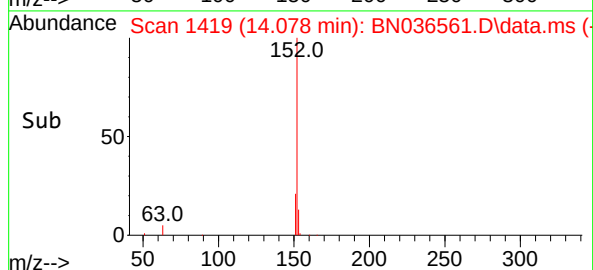
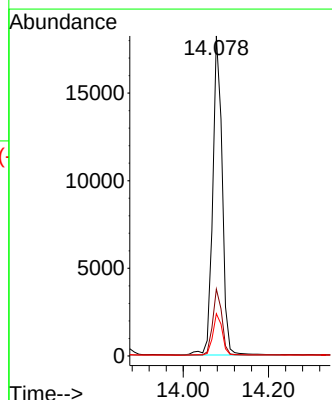
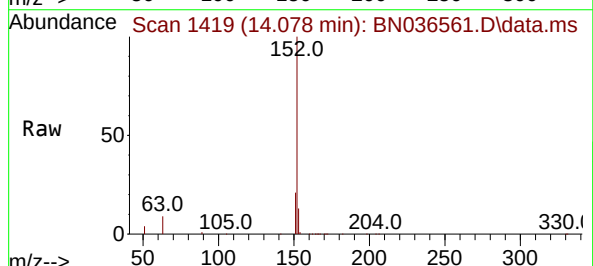
Tgt Ion:152 Resp: 28080

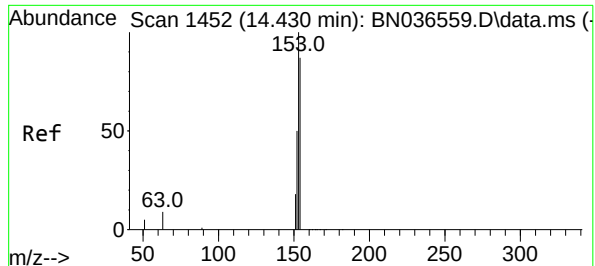
Ion Ratio Lower Upper

152 100

151 20.3 16.2 24.4

153 13.0 10.6 15.8

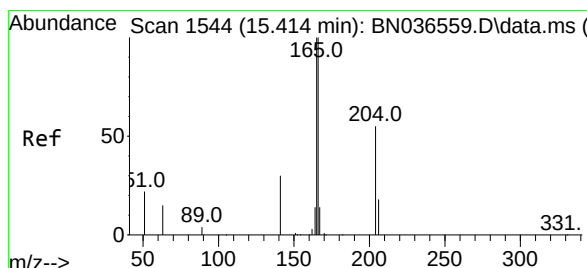
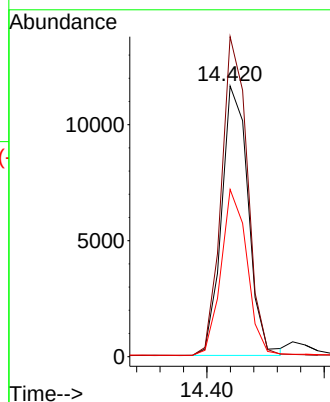
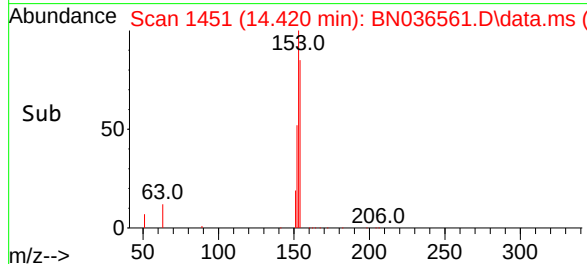
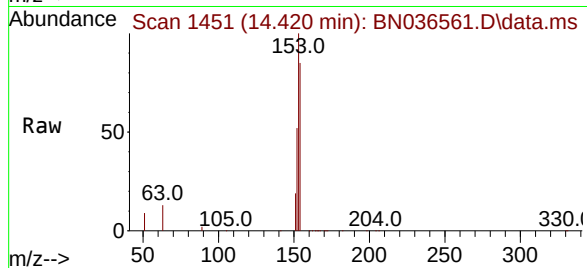




#17
Acenaphthene
Concen: 1.553 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

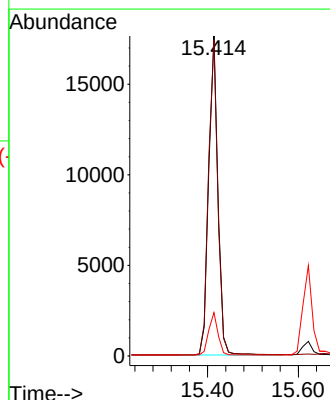
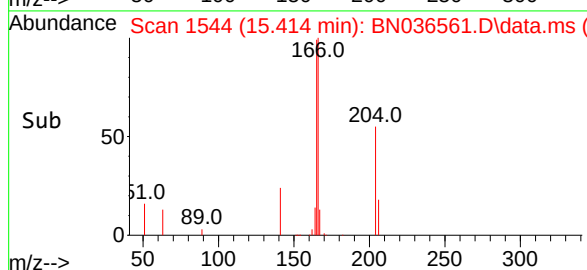
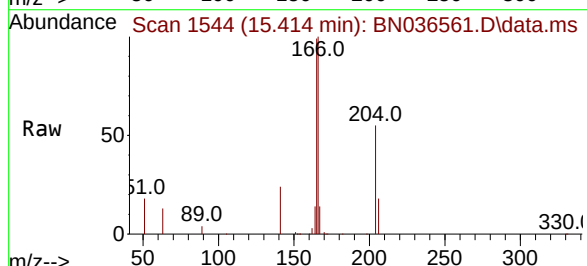
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

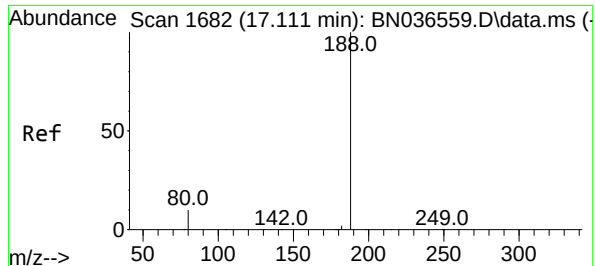
Tgt Ion:154 Resp: 18355
Ion Ratio Lower Upper
154 100
153 115.7 94.1 141.1
152 60.3 49.8 74.6



#18
Fluorene
Concen: 1.599 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:166 Resp: 25565
Ion Ratio Lower Upper
166 100
165 100.5 79.8 119.8
167 13.1 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

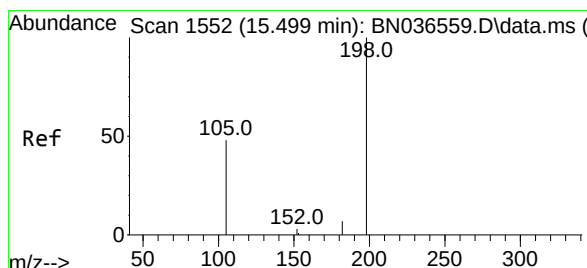
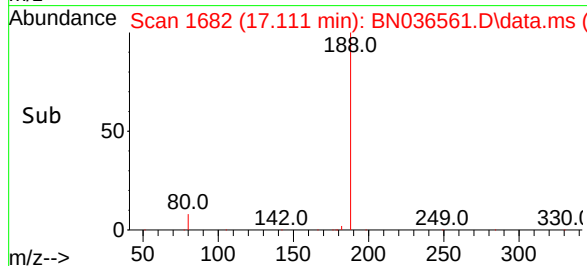
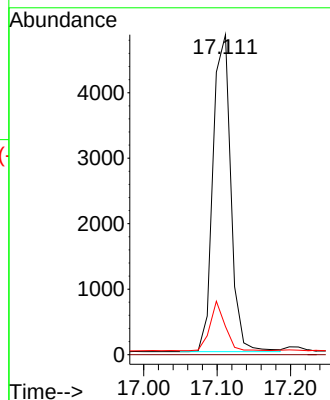
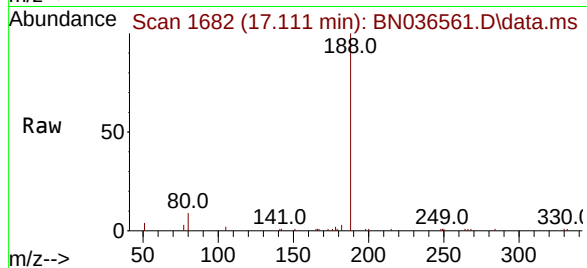
Tgt Ion:188 Resp: 8149

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.8 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 1.488 ng

RT: 15.489 min Scan# 1551

Delta R.T. -0.010 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

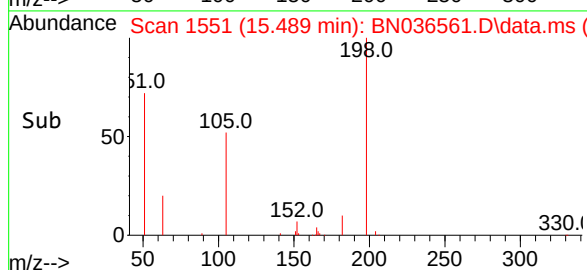
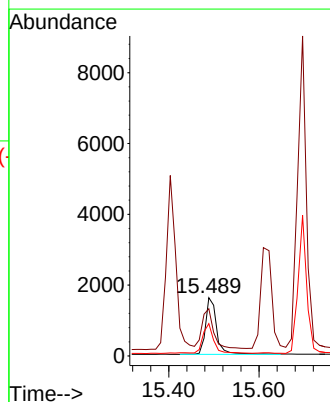
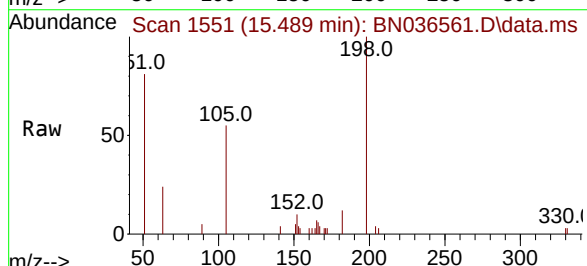
Tgt Ion:198 Resp: 2879

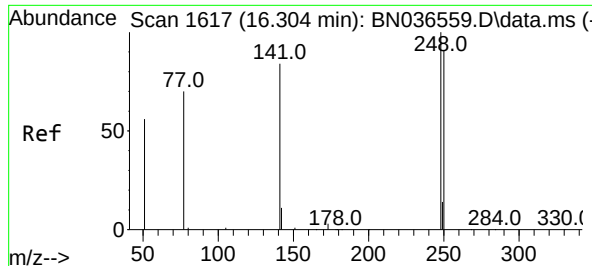
Ion Ratio Lower Upper

198 100

51 81.2 107.9 161.9#

105 55.5 56.2 84.2#

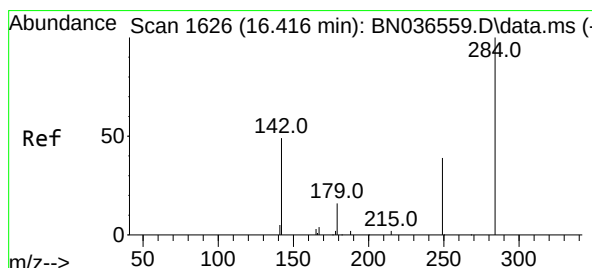
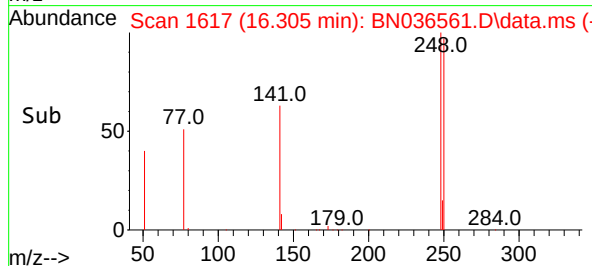
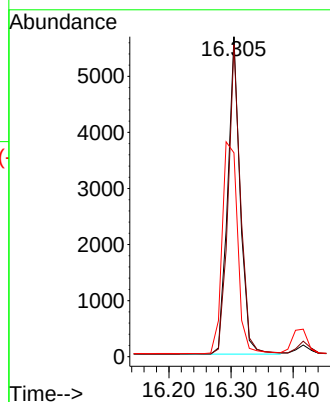
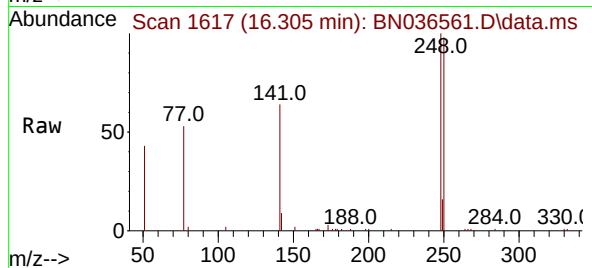




#21
4-Bromophenyl-phenylether
Concen: 1.539 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

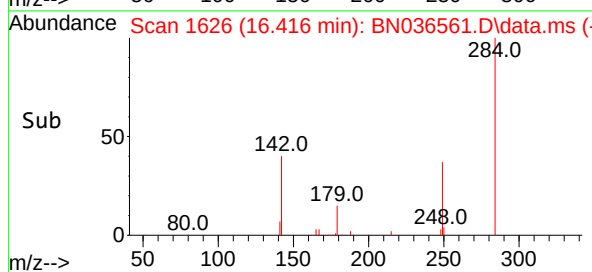
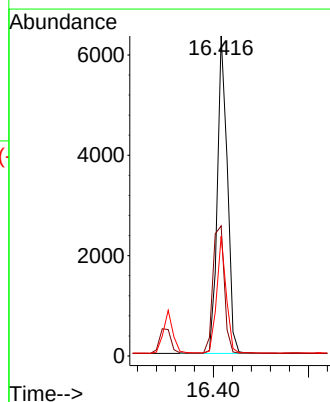
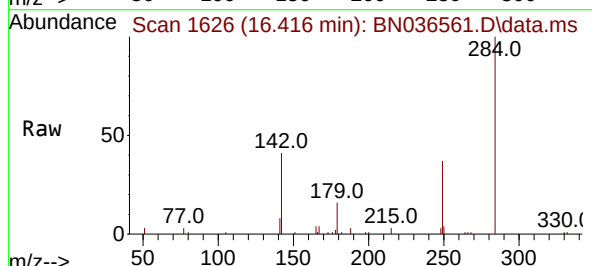
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

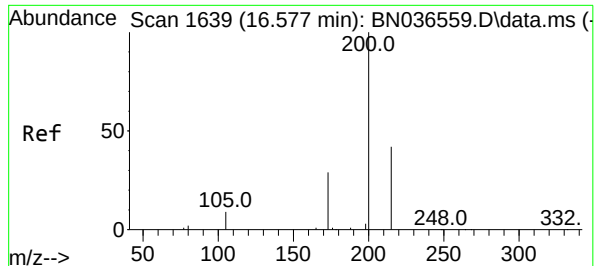
Tgt Ion	Ratio	Lower	Upper
248	100		
250	97.5	73.0	109.6
141	63.7	68.6	103.0#



#22
Hexachlorobenzene
Concen: 1.495 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion	Ratio	Lower	Upper
284	100		
142	46.6	37.0	55.4
249	35.1	28.1	42.1





#23

Atrazine

Concen: 1.595 ng

RT: 16.578 min Scan# 1639

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

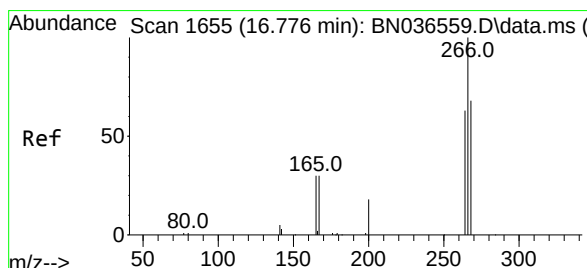
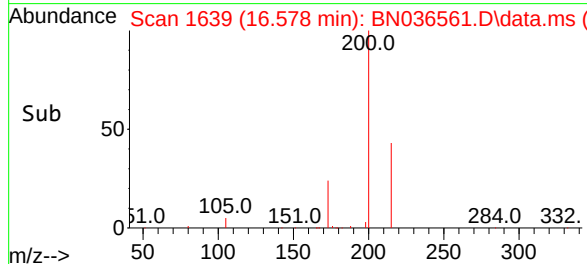
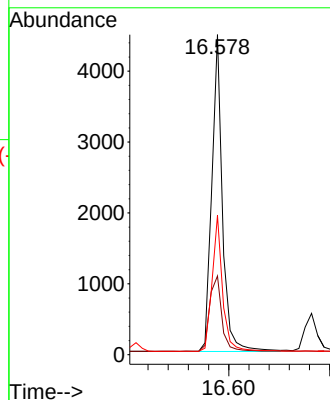
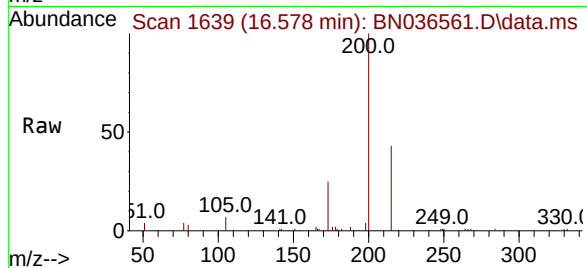
Tgt Ion:200 Resp: 6530

Ion Ratio Lower Upper

200 100

173 24.6 27.3 40.9#

215 43.5 36.8 55.2



#24

Pentachlorophenol

Concen: 1.563 ng

RT: 16.764 min Scan# 1654

Delta R.T. -0.012 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

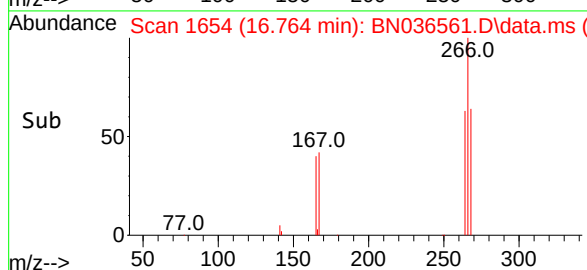
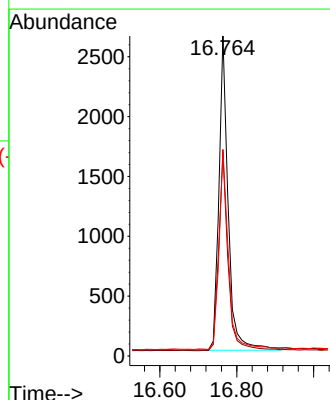
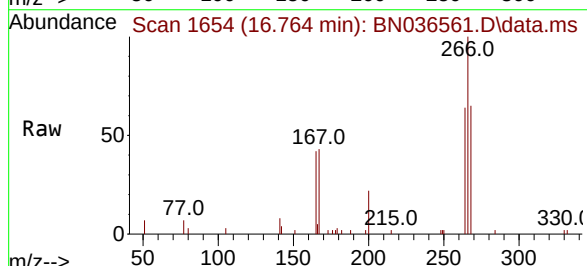
Tgt Ion:266 Resp: 4395

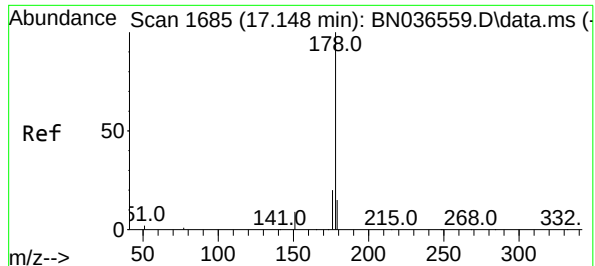
Ion Ratio Lower Upper

266 100

264 63.5 49.6 74.4

268 64.4 50.9 76.3

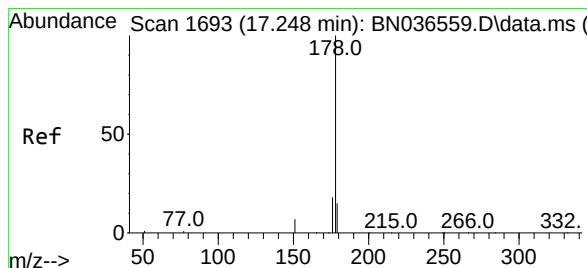
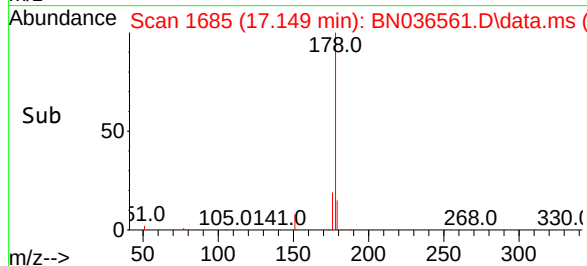
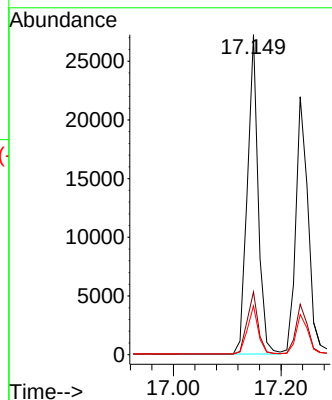
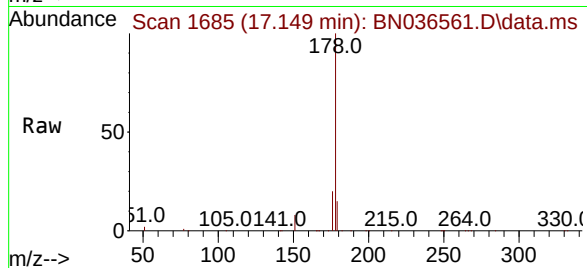




#25
Phenanthrene
Concen: 1.554 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

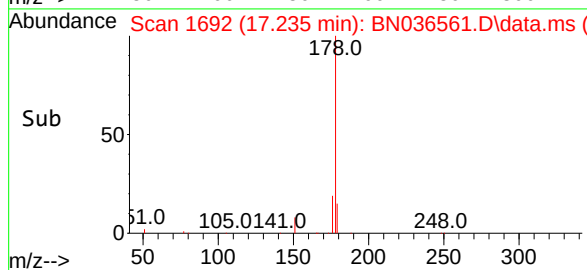
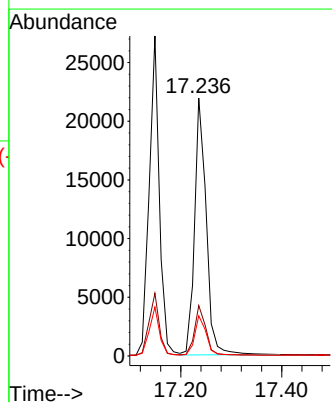
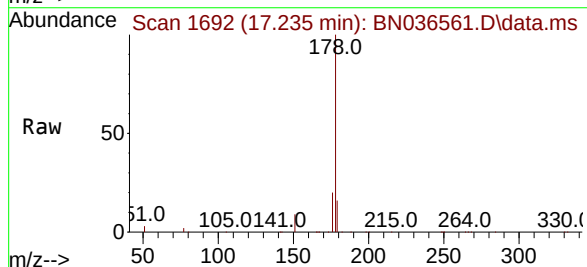
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

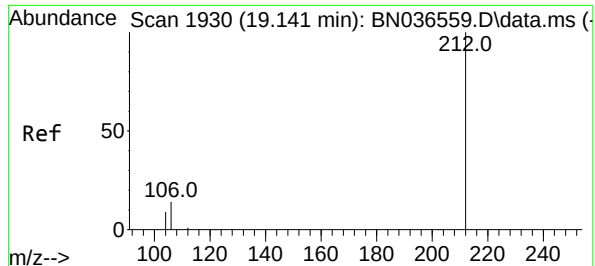
Tgt Ion:178 Resp: 37989
Ion Ratio Lower Upper
178 100
176 19.7 15.9 23.9
179 15.1 12.2 18.4



#26
Anthracene
Concen: 1.589 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:178 Resp: 35054
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.2
179 15.3 12.6 18.8





#27

Fluoranthene-d10

Concen: 1.600 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

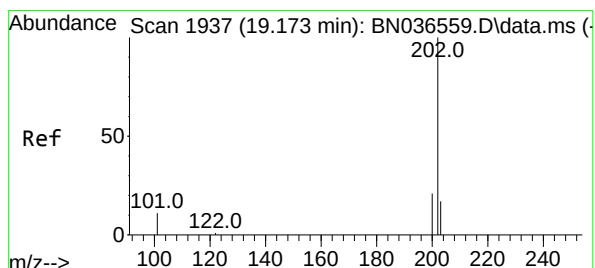
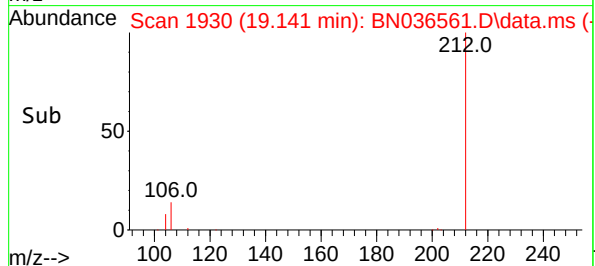
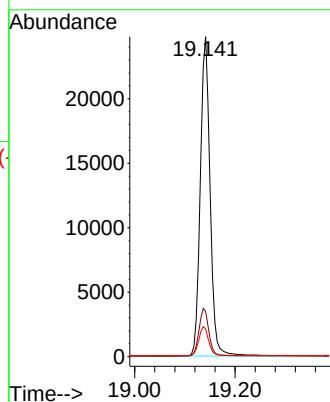
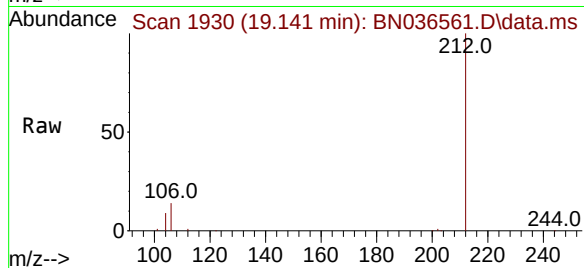
Tgt Ion:212 Resp: 33414

Ion Ratio Lower Upper

212 100

106 15.0 11.8 17.6

104 9.1 7.3 10.9



#28

Fluoranthene

Concen: 1.619 ng

RT: 19.169 min Scan# 1936

Delta R.T. -0.004 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

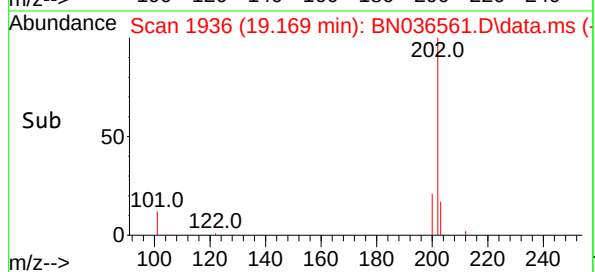
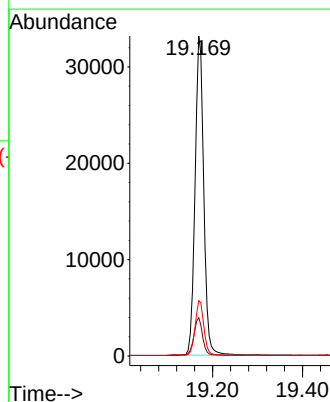
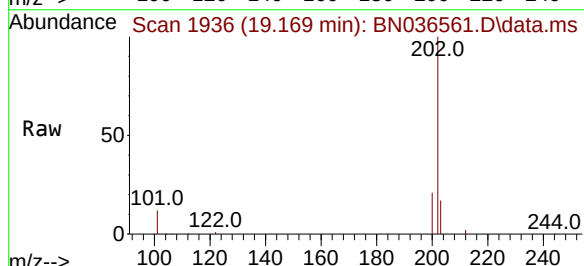
Tgt Ion:202 Resp: 44451

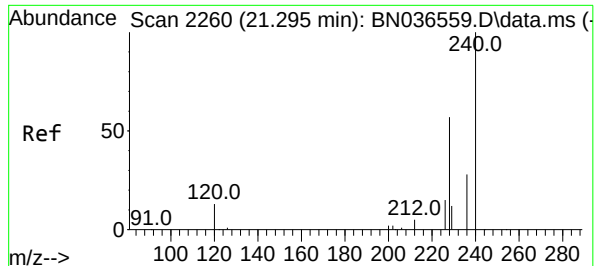
Ion Ratio Lower Upper

202 100

101 12.0 9.4 14.0

203 17.2 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

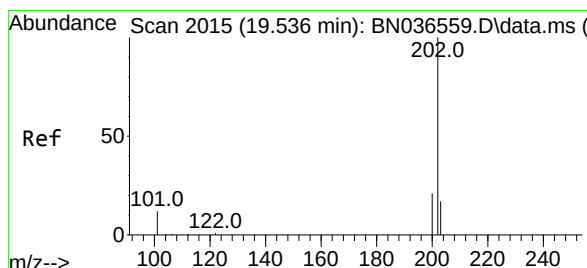
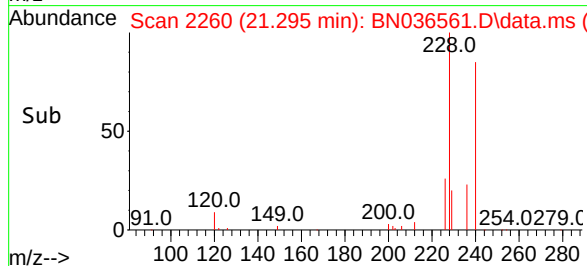
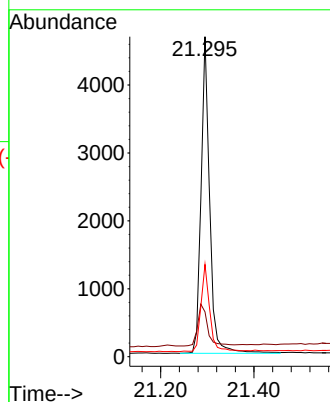
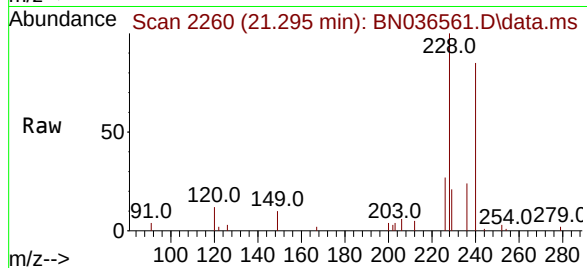
Tgt Ion:240 Resp: 5977

Ion Ratio Lower Upper

240 100

120 14.0 14.6 22.0#

236 28.9 24.1 36.1



#30

Pyrene

Concen: 1.530 ng

RT: 19.531 min Scan# 2014

Delta R.T. -0.004 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

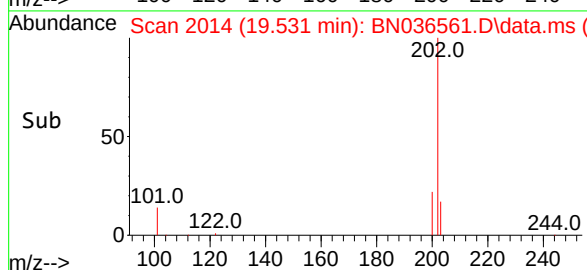
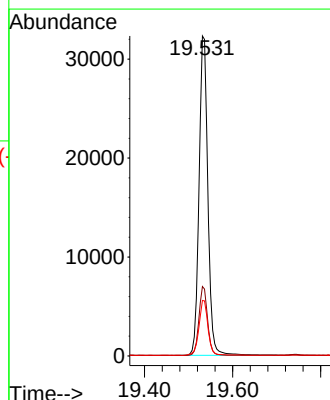
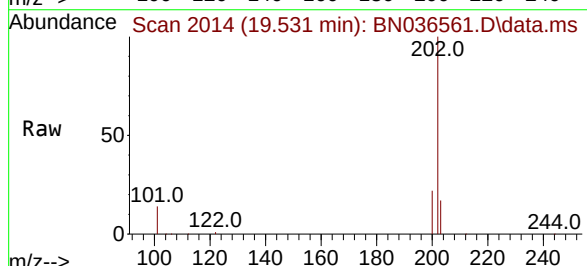
Tgt Ion:202 Resp: 44705

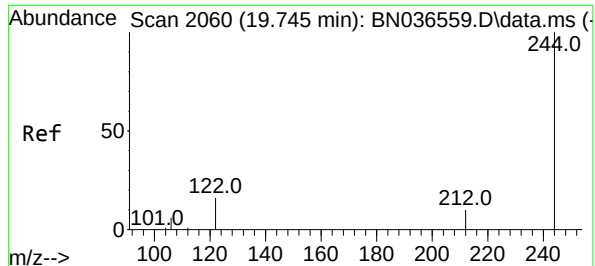
Ion Ratio Lower Upper

202 100

200 21.3 17.1 25.7

203 17.5 14.1 21.1

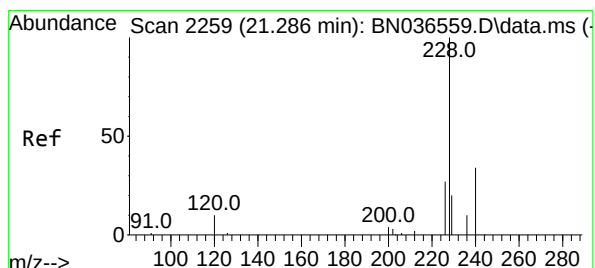
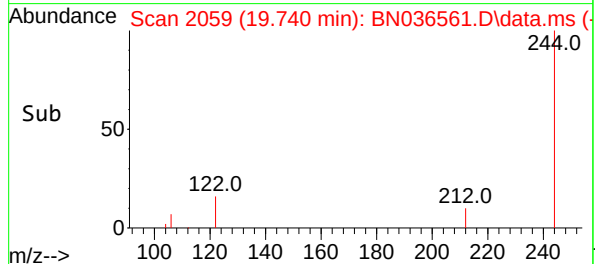
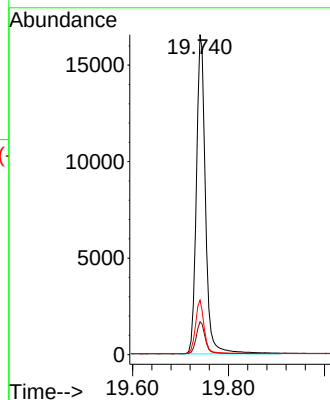
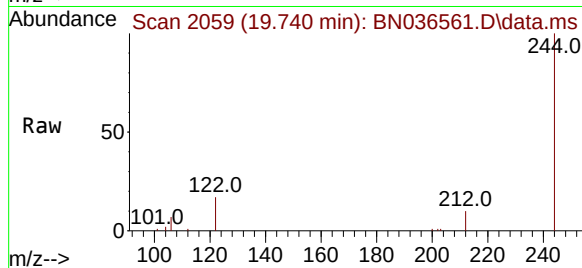




#31
Terphenyl-d14
Concen: 1.527 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.004 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

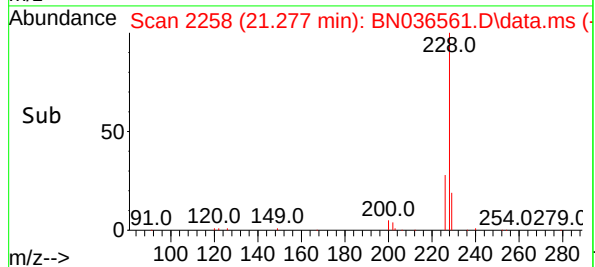
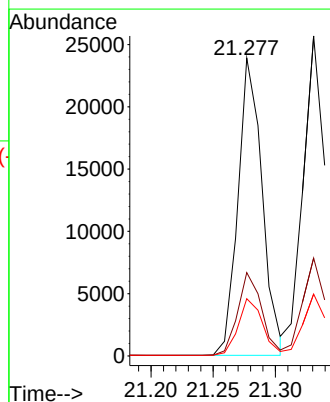
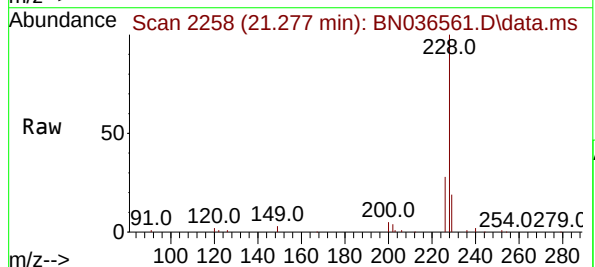
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

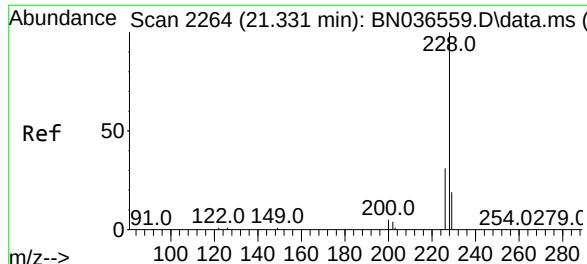
Tgt Ion:244 Resp: 21872
Ion Ratio Lower Upper
244 100
212 10.3 9.6 14.4
122 17.0 13.9 20.9



#32
Benzo(a)anthracene
Concen: 1.550 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:228 Resp: 32205
Ion Ratio Lower Upper
228 100
226 28.0 22.5 33.7
229 19.2 16.6 25.0





#33

Chrysene

Concen: 1.539 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

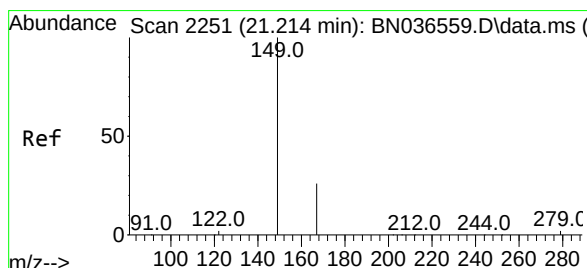
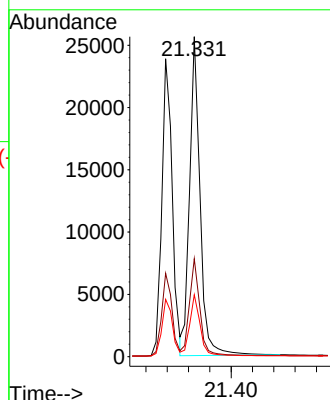
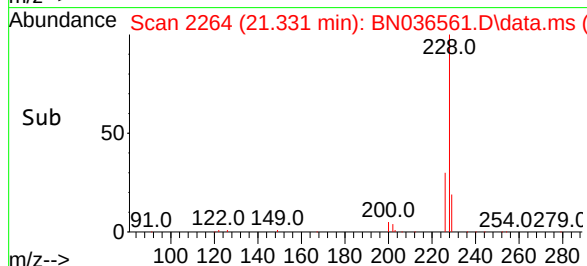
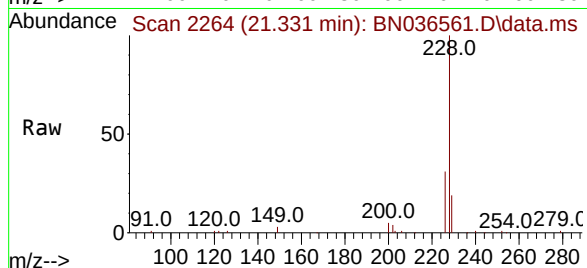
Tgt Ion:228 Resp: 34953

Ion Ratio Lower Upper

228 100

226 30.6 25.3 37.9

229 19.3 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.529 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

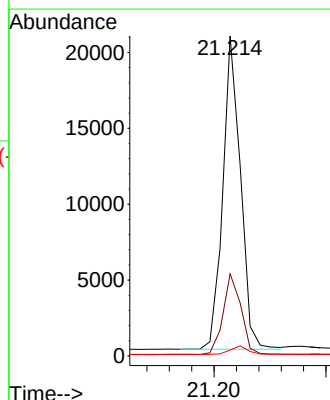
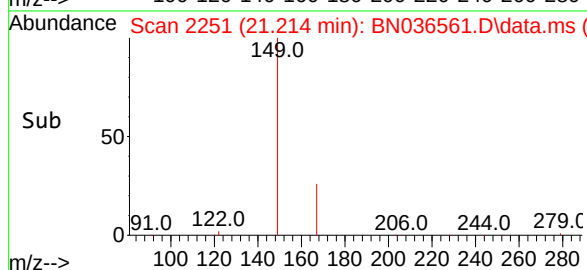
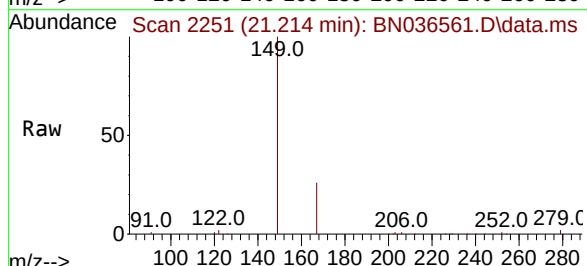
Tgt Ion:149 Resp: 22621

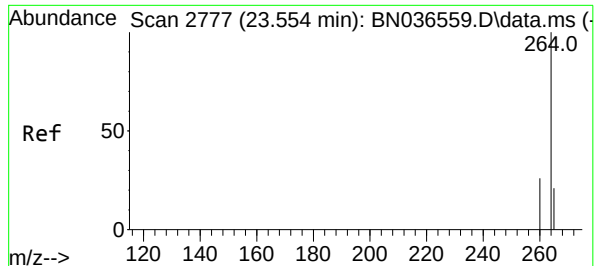
Ion Ratio Lower Upper

149 100

167 26.3 20.7 31.1

279 2.7 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.552 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

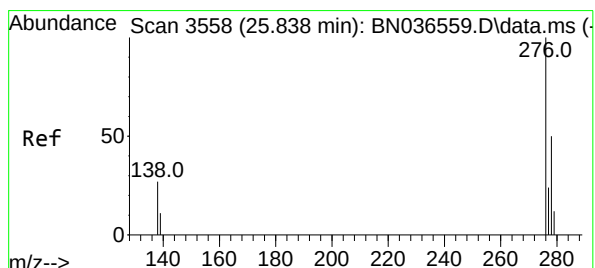
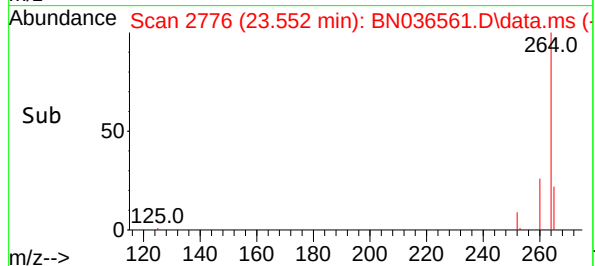
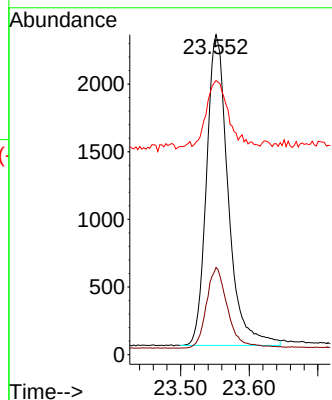
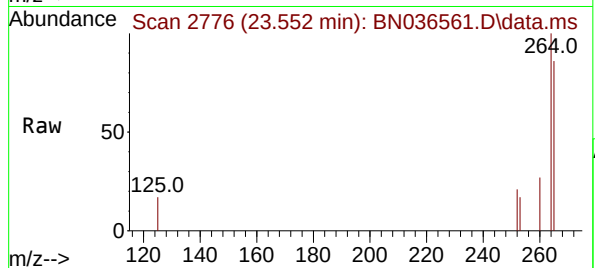
Tgt Ion:264 Resp: 5048

Ion Ratio Lower Upper

264 100

260 27.2 22.6 33.8

265 85.7 88.1 132.1#



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.570 ng

RT: 25.832 min Scan# 3556

Delta R.T. -0.006 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

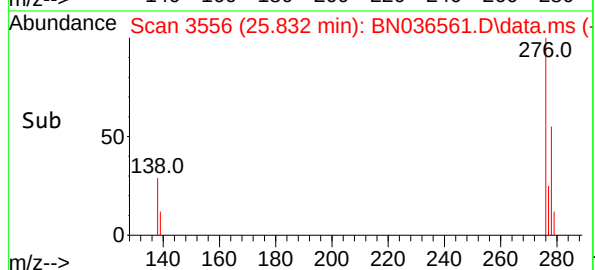
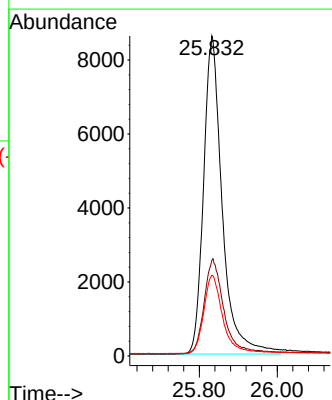
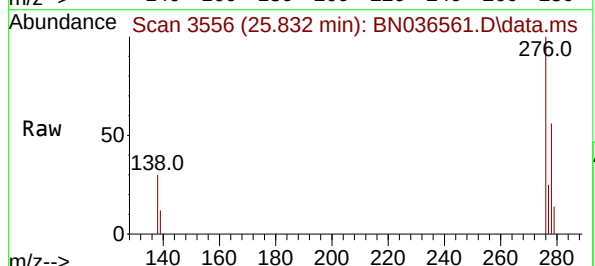
Tgt Ion:276 Resp: 28605

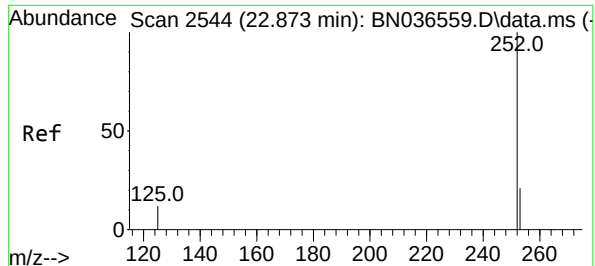
Ion Ratio Lower Upper

276 100

138 30.4 23.4 35.2

277 24.9 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 1.623 ng

RT: 22.870 min Scan# 2544

Delta R.T. -0.003 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

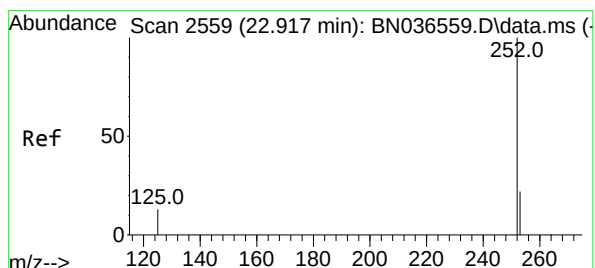
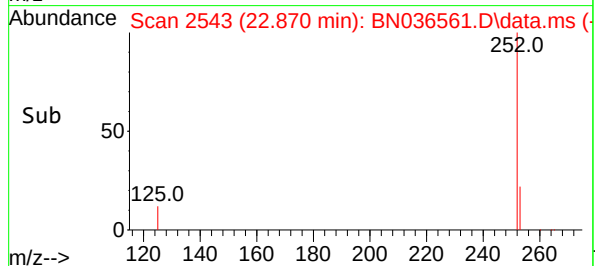
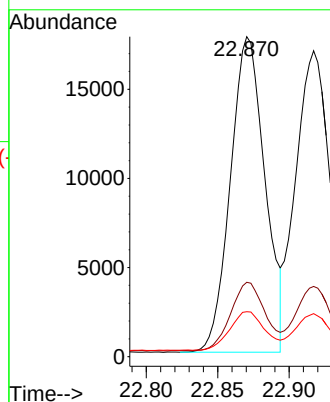
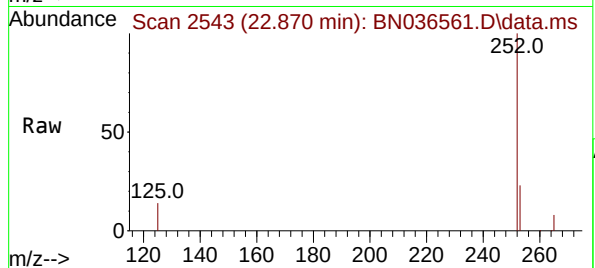
Tgt Ion:252 Resp: 29819

Ion Ratio Lower Upper

252 100

253 23.3 23.9 35.9#

125 14.0 17.4 26.2#



#38

Benzo(k)fluoranthene

Concen: 1.593 ng

RT: 22.917 min Scan# 2559

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

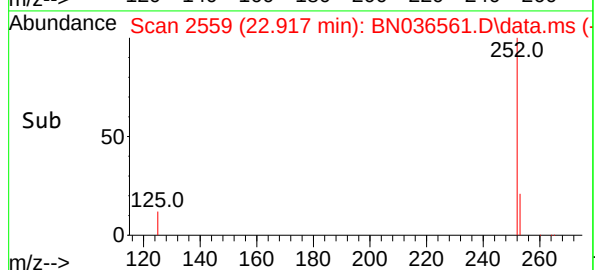
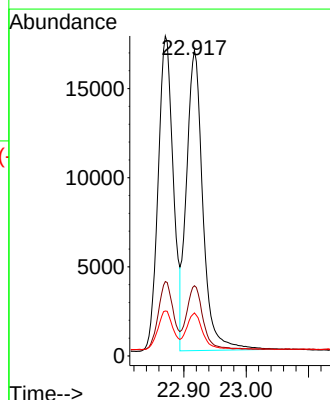
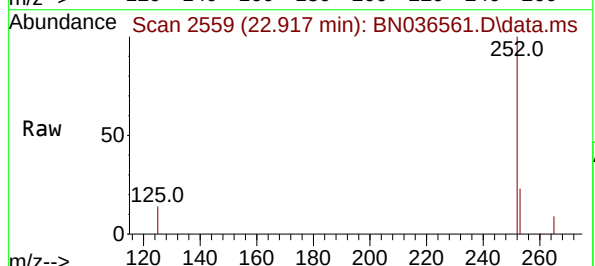
Tgt Ion:252 Resp: 30710

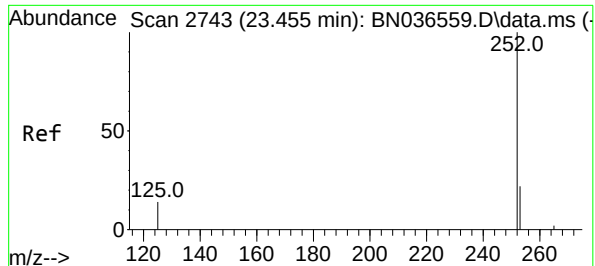
Ion Ratio Lower Upper

252 100

253 23.0 24.6 36.8#

125 14.1 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 1.596 ng

RT: 23.452 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

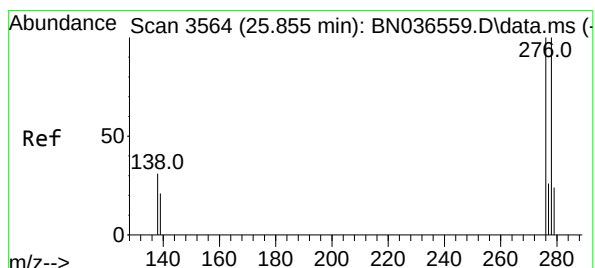
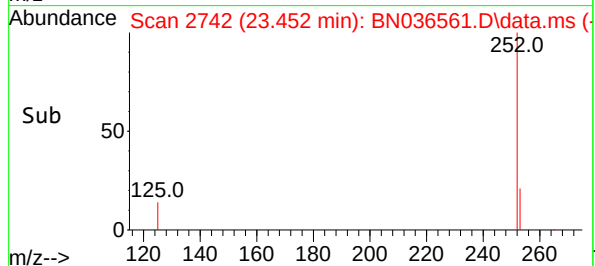
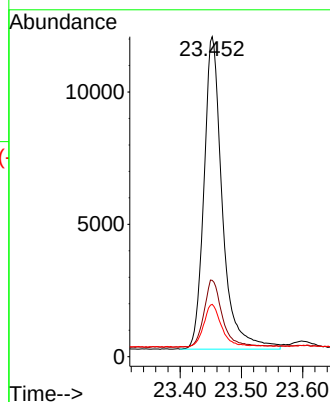
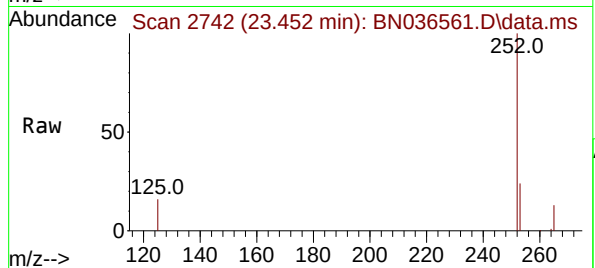
Tgt Ion:252 Resp: 24696

Ion Ratio Lower Upper

252 100

253 23.9 27.8 41.8#

125 16.3 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 1.569 ng

RT: 25.850 min Scan# 3562

Delta R.T. -0.006 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

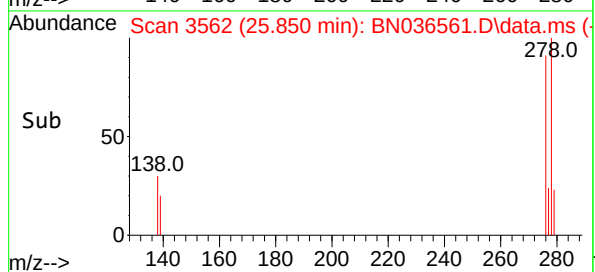
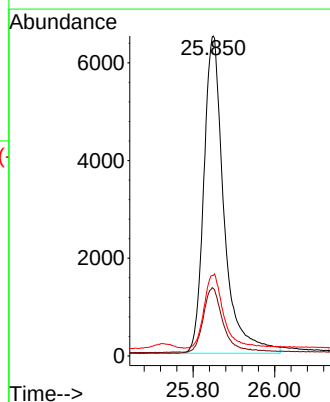
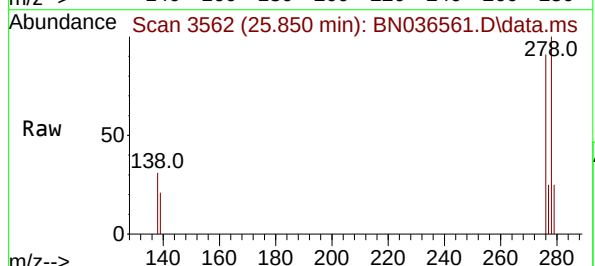
Tgt Ion:278 Resp: 22248

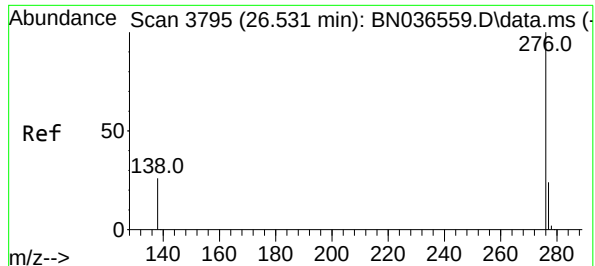
Ion Ratio Lower Upper

278 100

139 21.1 20.8 31.2

279 25.1 28.8 43.2#





#41

Benzo(g,h,i)perylene

Concen: 1.535 ng

RT: 26.531 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN036561.D

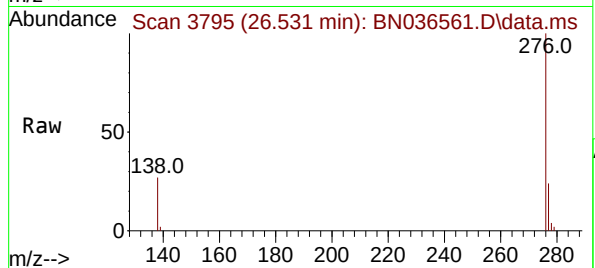
Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



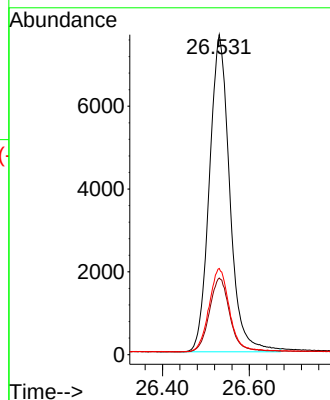
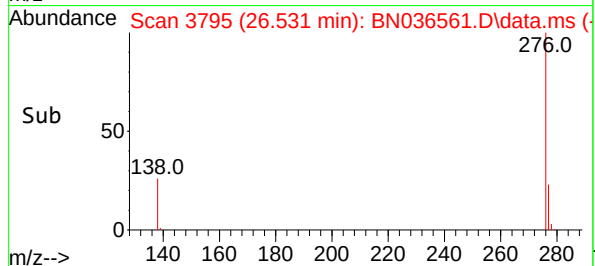
Tgt Ion:276 Resp: 24906

Ion Ratio Lower Upper

276 100

277 23.9 22.2 33.4

138 26.9 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036562.D
 Acq On : 10 Mar 2025 14:43
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Mar 10 16:02:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

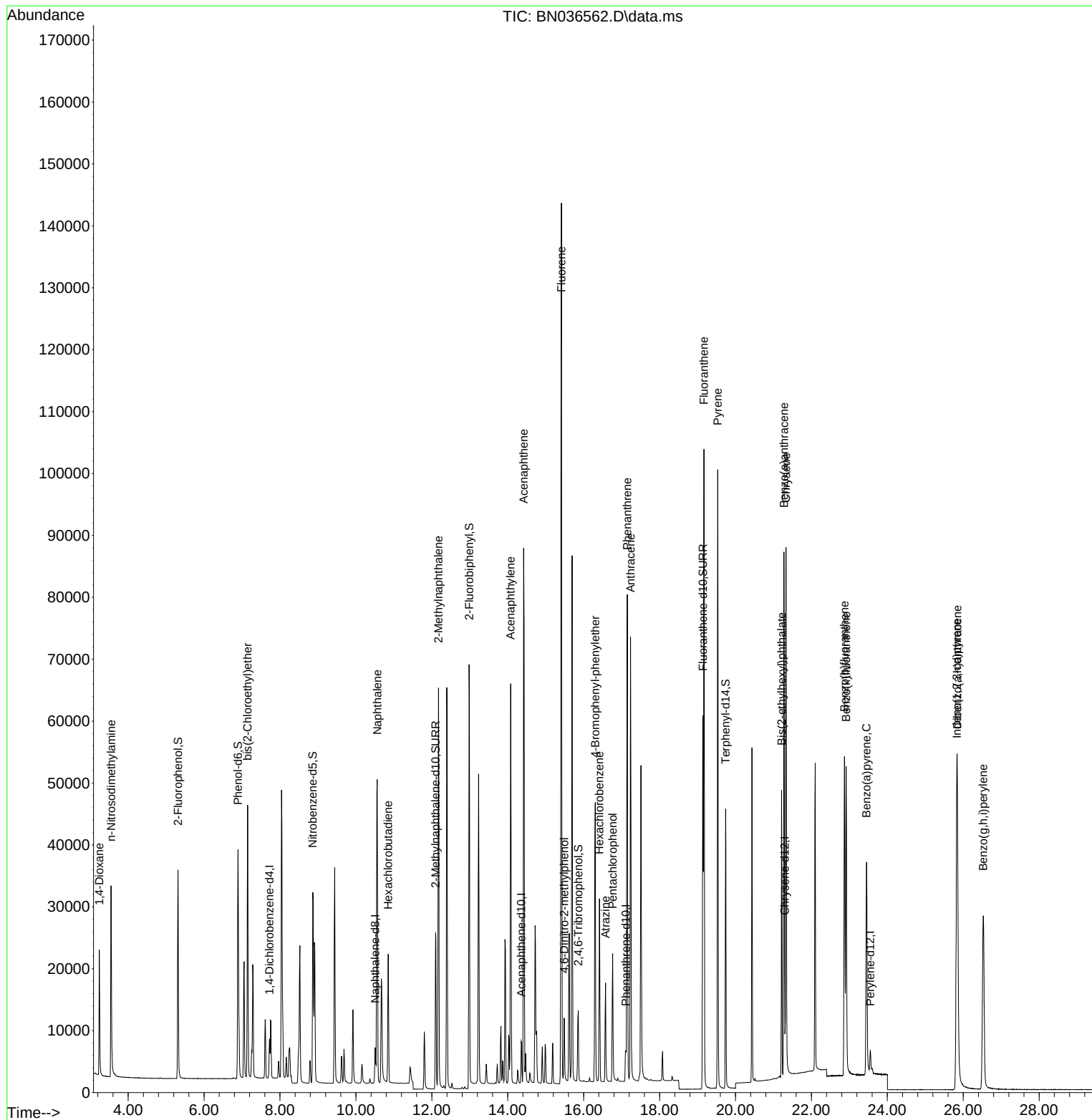
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2890	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	6824	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	3957	0.400	ng	-0.01
19) Phenanthrene-d10	17.111	188	7488	0.400	ng	0.00
29) Chrysene-d12	21.295	240	5439	0.400	ng	0.00
35) Perylene-d12	23.551	264	5002	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	23032	3.420	ng	0.00
5) Phenol-d6	6.894	99	28996	3.485	ng	0.00
8) Nitrobenzene-d5	8.864	82	24586	3.312	ng	-0.01
11) 2-Methylnaphthalene-d10	12.101	152	34578	3.407	ng	-0.01
14) 2,4,6-Tribromophenol	15.858	330	6252	3.482	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	81236	3.529	ng	0.00
27) Fluoranthene-d10	19.141	212	65134	3.394	ng	0.00
31) Terphenyl-d14	19.740	244	42959	3.297	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	10288	3.209	ng	97
3) n-Nitrosodimethylamine	3.550	42	20412	3.147	ng	# 96
6) bis(2-Chloroethyl)ether	7.146	93	27978	3.253	ng	99
9) Naphthalene	10.562	128	66694	3.323	ng	96
10) Hexachlorobutadiene	10.850	225	15618	3.305	ng	# 99
12) 2-Methylnaphthalene	12.177	142	43768	3.427	ng	97
16) Acenaphthylene	14.077	152	65654	3.516	ng	99
17) Acenaphthene	14.420	154	42378	3.467	ng	97
18) Fluorene	15.414	166	56295	3.404	ng	100
20) 4,6-Dinitro-2-methylph...	15.489	198	6567	3.315	ng	# 58
21) 4-Bromophenyl-phenylether	16.304	248	16652	3.549	ng	# 82
22) Hexachlorobenzene	16.416	284	19287	3.406	ng	100
23) Atrazine	16.577	200	12969	3.448	ng	# 90
24) Pentachlorophenol	16.764	266	9625	3.726	ng	99
25) Phenanthrene	17.148	178	77903	3.468	ng	99
26) Anthracene	17.235	178	72775	3.590	ng	99
28) Fluoranthene	19.169	202	86688	3.436	ng	99
30) Pyrene	19.531	202	86694	3.260	ng	100
32) Benzo(a)anthracene	21.277	228	66496	3.516	ng	99
33) Chrysene	21.331	228	70334	3.403	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	39682	2.947	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.829	276	67767	3.754	ng	98
37) Benzo(b)fluoranthene	22.870	252	63823	3.506	ng	# 84
38) Benzo(k)fluoranthene	22.914	252	65410	3.425	ng	# 83
39) Benzo(a)pyrene	23.452	252	54009	3.523	ng	# 77
40) Dibenzo(a,h)anthracene	25.843	278	54058	3.846	ng	# 84
41) Benzo(g,h,i)perylene	26.528	276	57986	3.606	ng	94

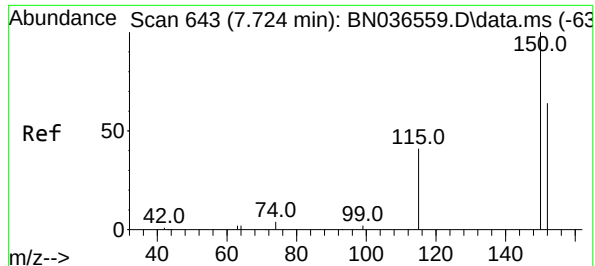
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036562.D
Acq On : 10 Mar 2025 14:43
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Mar 10 16:02:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

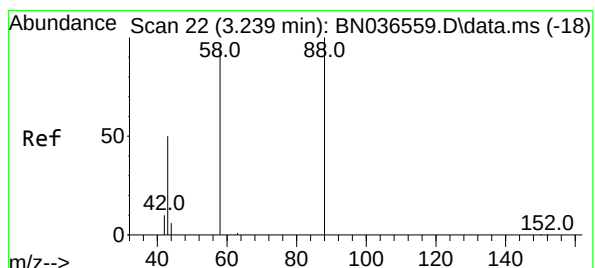
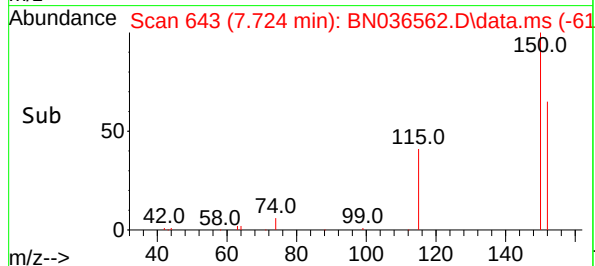
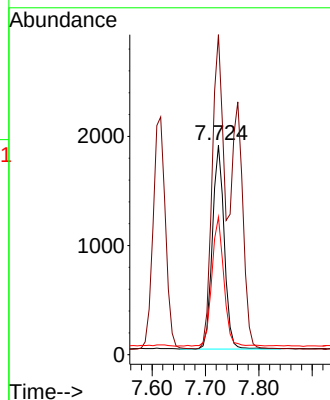
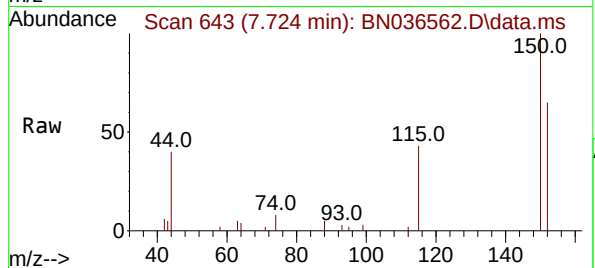




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

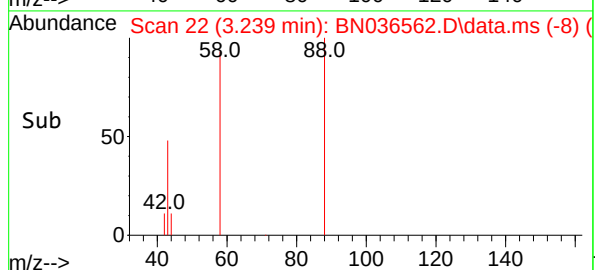
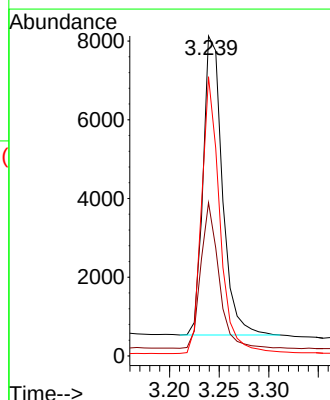
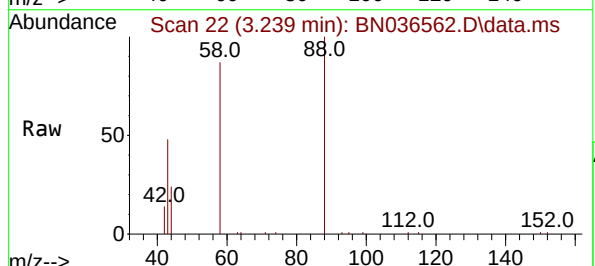
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

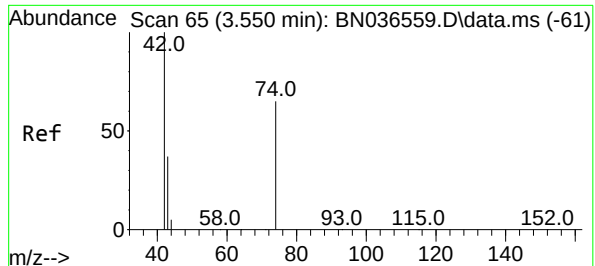
Tgt Ion:152 Resp: 2890
Ion Ratio Lower Upper
152 100
150 152.9 123.7 185.5
115 65.7 54.3 81.5



#2
1,4-Dioxane
Concen: 3.209 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion: 88 Resp: 10288
Ion Ratio Lower Upper
88 100
43 45.2 37.8 56.8
58 87.2 67.4 101.2

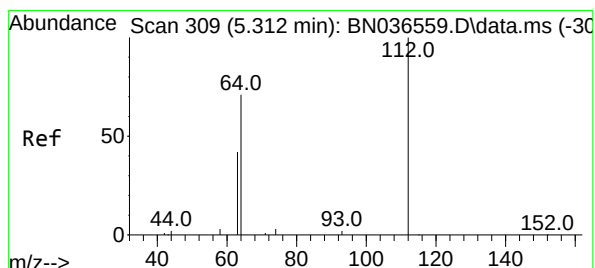
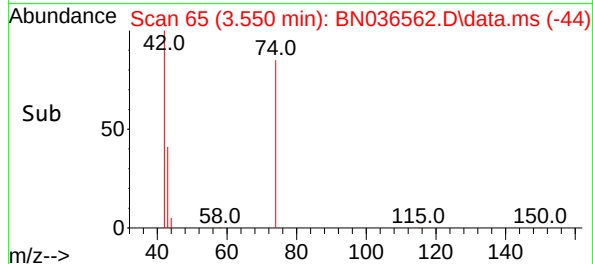
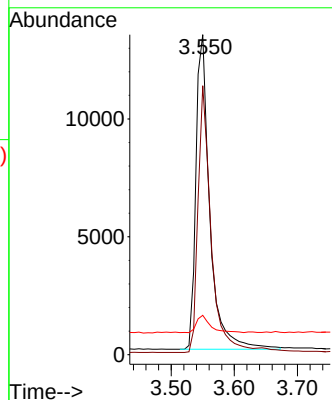
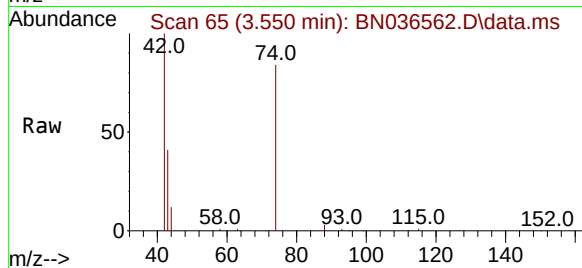




#3
n-Nitrosodimethylamine
Concen: 3.147 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

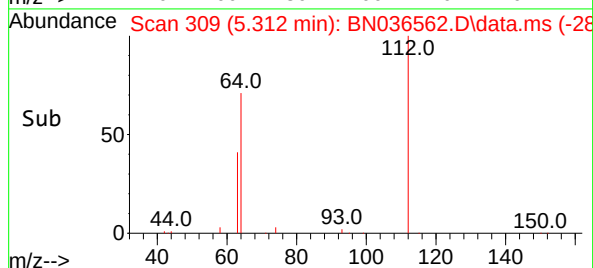
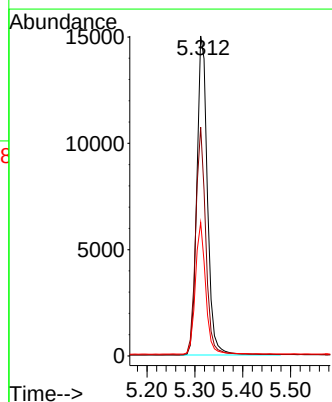
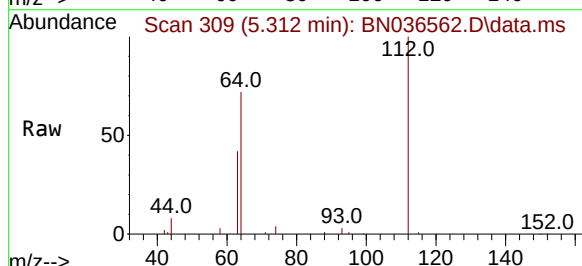
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

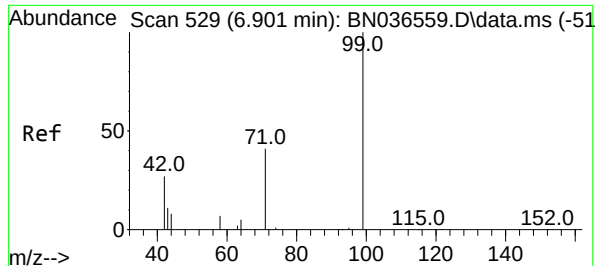
Tgt Ion: 42 Resp: 20412
Ion Ratio Lower Upper
42 100
74 78.8 60.6 90.8
44 5.5 6.3 9.5#



#4
2-Fluorophenol
Concen: 3.420 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion: 112 Resp: 23032
Ion Ratio Lower Upper
112 100
64 68.4 53.1 79.7
63 39.8 31.8 47.8

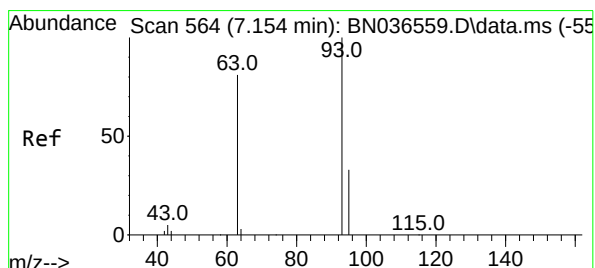
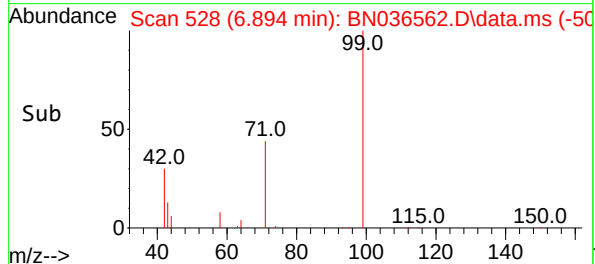
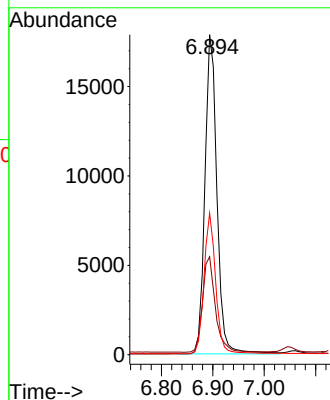
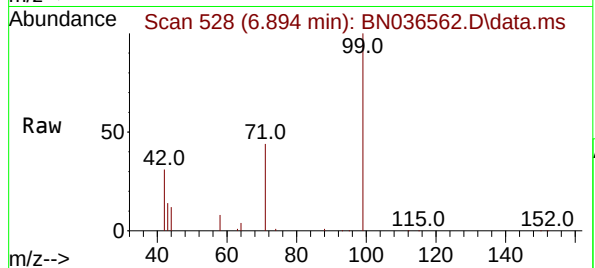




#5
Phenol-d6
Concen: 3.485 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

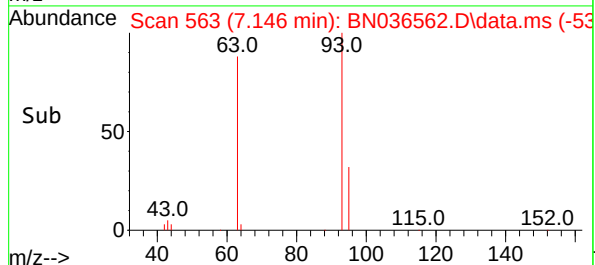
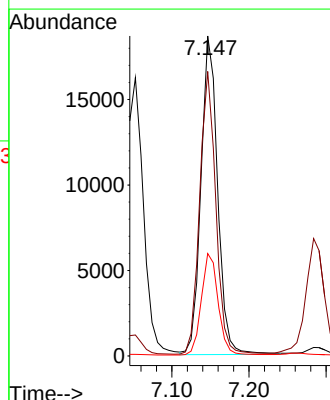
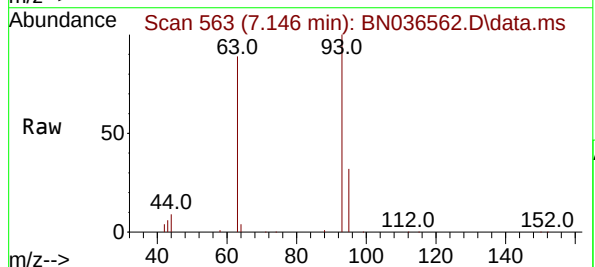
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

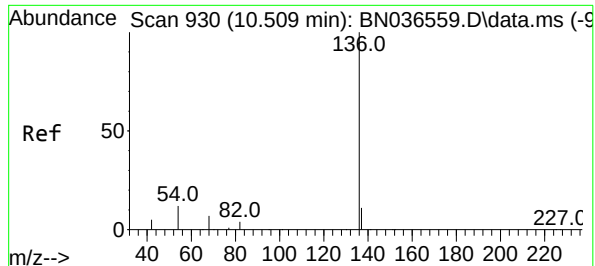
Tgt Ion: 99 Resp: 28996
Ion Ratio Lower Upper
99 100
42 32.3 26.5 39.7
71 43.2 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 3.253 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion: 93 Resp: 27978
Ion Ratio Lower Upper
93 100
63 85.7 67.7 101.5
95 32.0 25.6 38.4

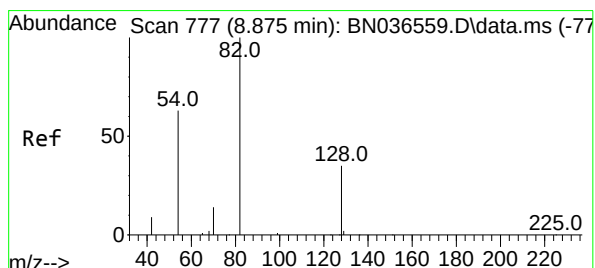
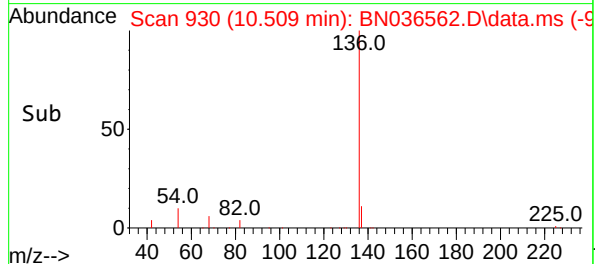
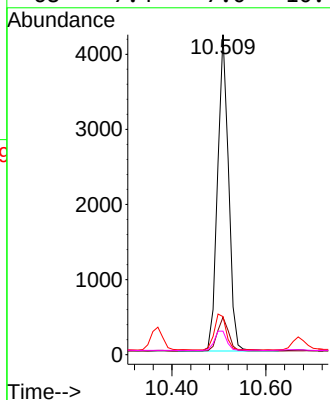
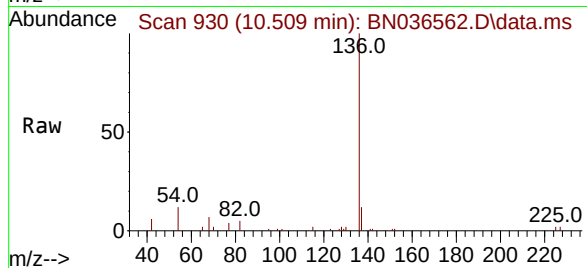




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

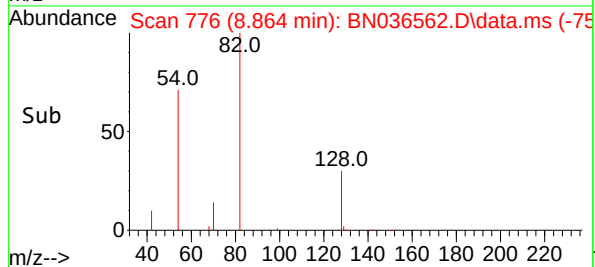
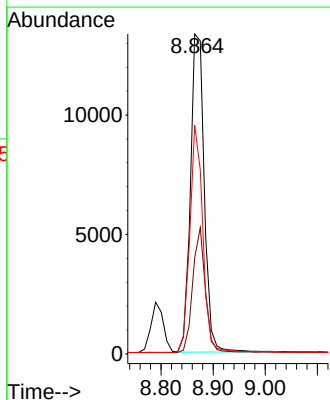
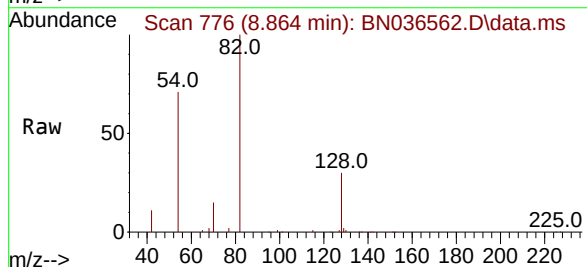
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

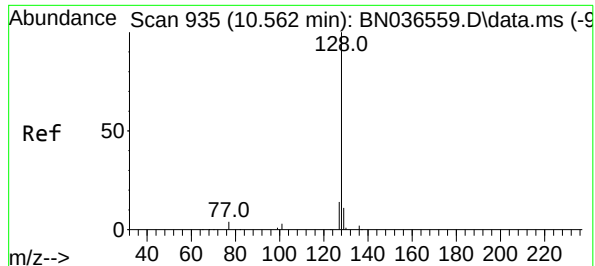
Tgt Ion:	136	Resp:	6824
Ion	Ratio	Lower	Upper
136	100		
137	11.7	10.3	15.5
54	11.9	11.5	17.3
68	7.4	7.0	10.4



#8
Nitrobenzene-d5
Concen: 3.312 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:	82	Resp:	24586
Ion	Ratio	Lower	Upper
82	100		
128	30.0	30.6	45.8#
54	71.4	52.2	78.4





#9

Naphthalene

Concen: 3.323 ng

RT: 10.562 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

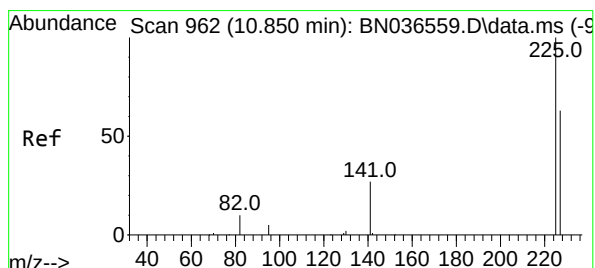
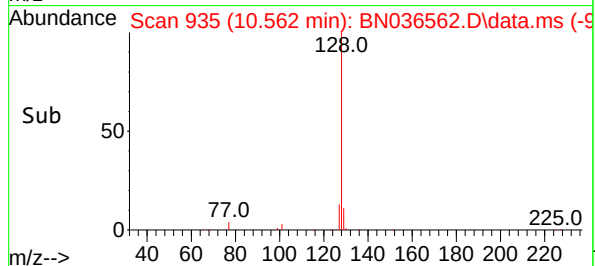
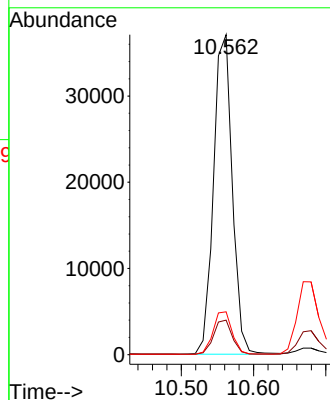
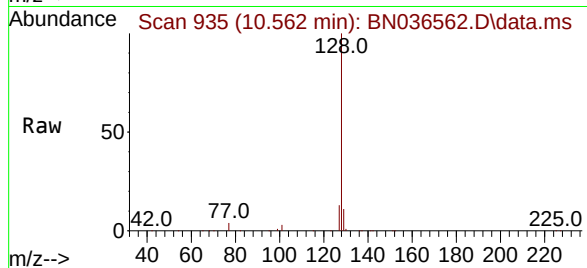
Tgt Ion:128 Resp: 66694

Ion Ratio Lower Upper

128 100

129 10.8 9.8 14.6

127 13.4 11.8 17.8



#10

Hexachlorobutadiene

Concen: 3.305 ng

RT: 10.850 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

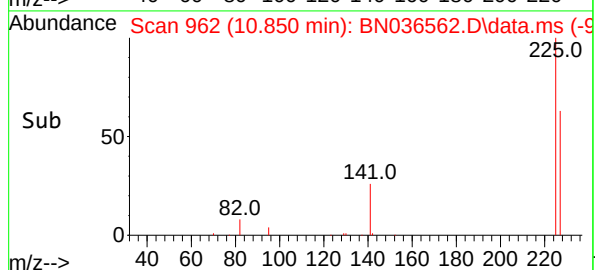
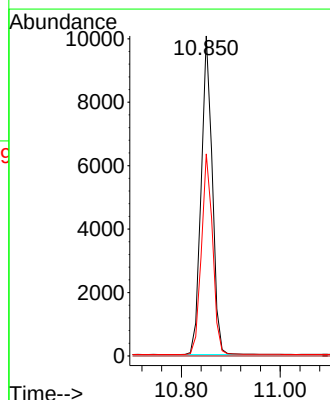
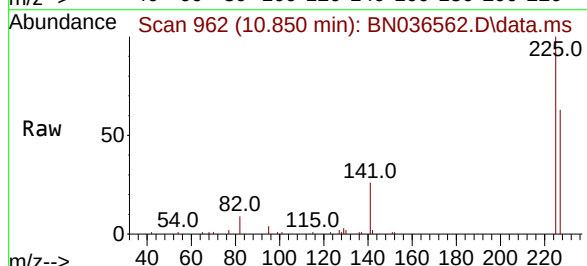
Tgt Ion:225 Resp: 15618

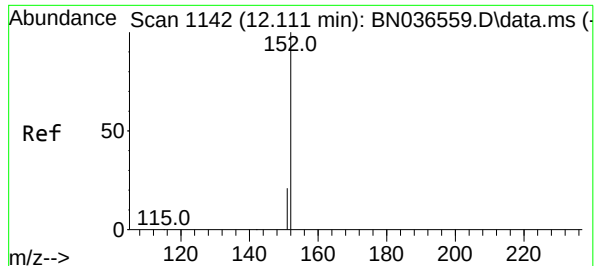
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.6 51.8 77.8

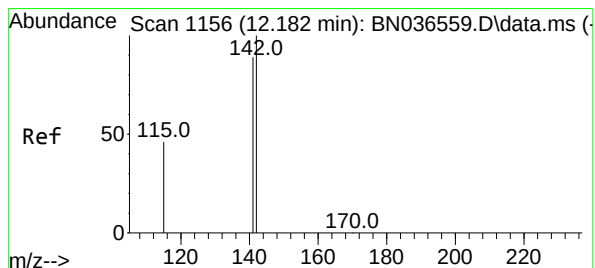
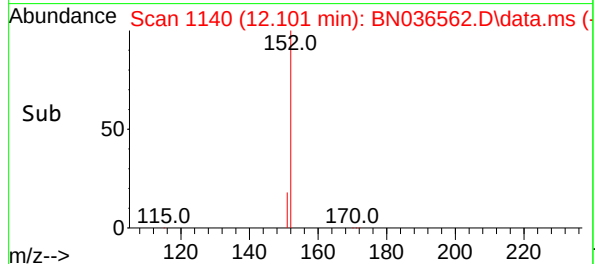
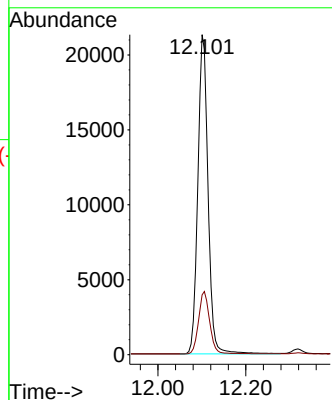
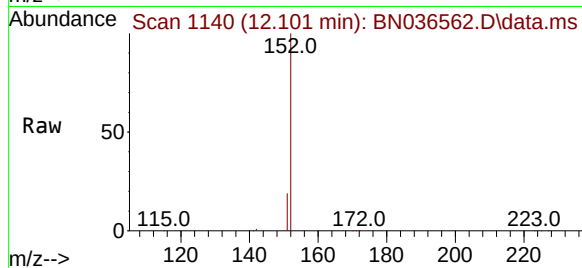




#11
2-Methylnaphthalene-d10
Concen: 3.407 ng
RT: 12.101 min Scan# 1142
Delta R.T. -0.010 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

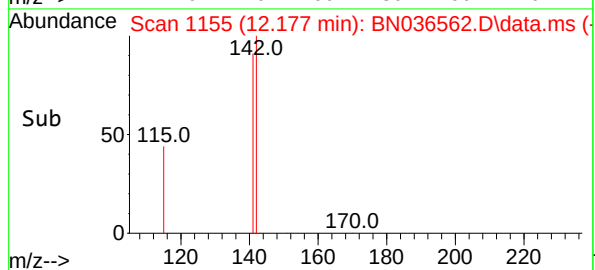
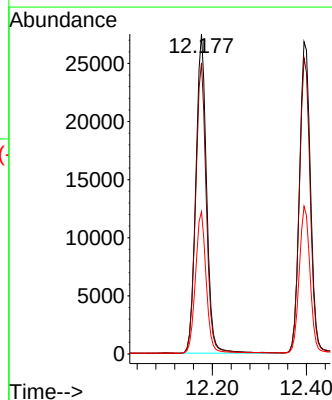
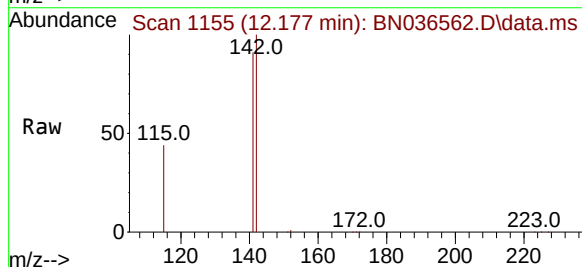
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

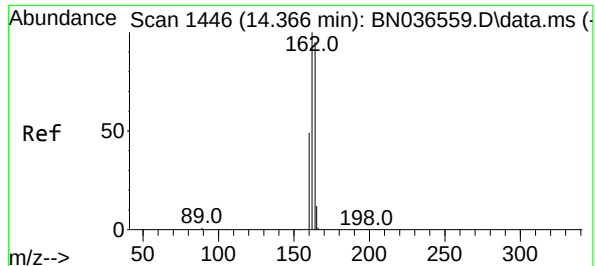
Tgt Ion:152 Resp: 34578
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6



#12
2-Methylnaphthalene
Concen: 3.427 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:142 Resp: 43768
Ion Ratio Lower Upper
142 100
141 90.9 71.7 107.5
115 44.5 38.3 57.5

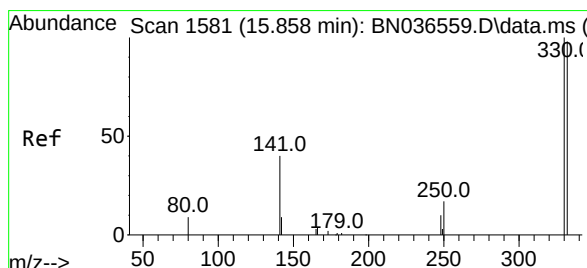
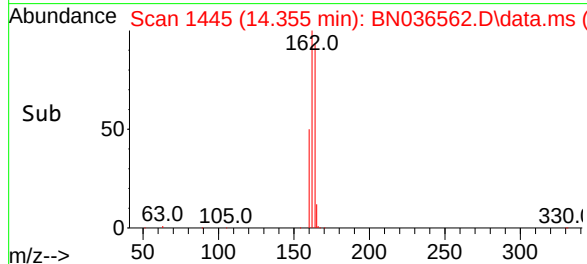
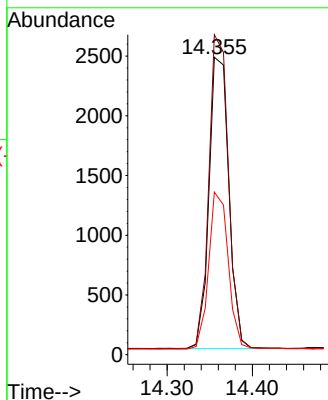
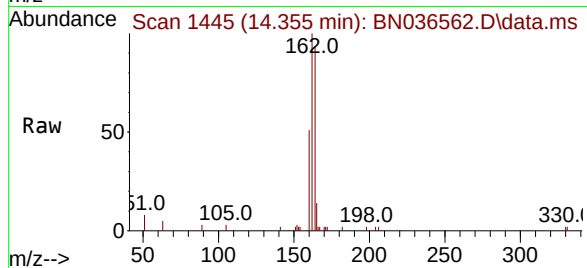




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1446
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

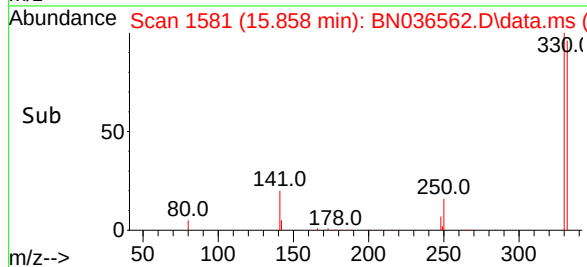
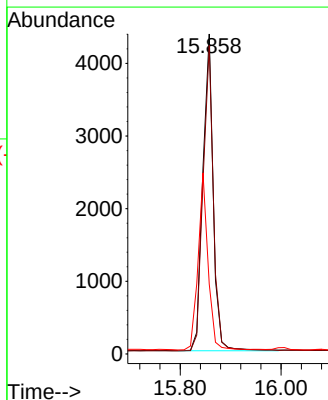
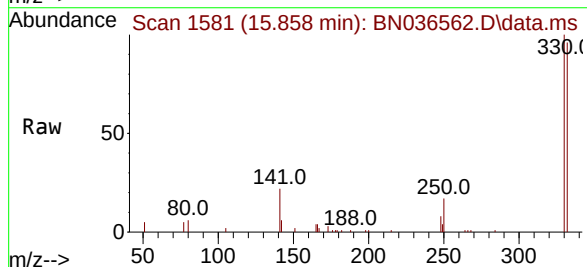
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

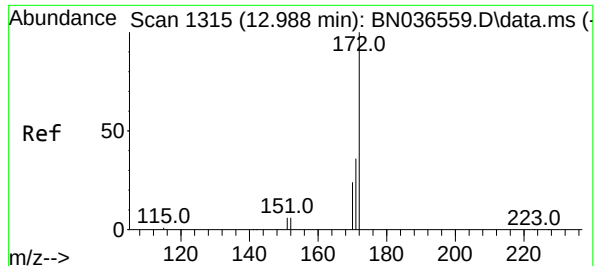
Tgt Ion:164 Resp: 3957
Ion Ratio Lower Upper
164 100
162 107.6 84.2 126.2
160 54.7 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 3.482 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:330 Resp: 6252
Ion Ratio Lower Upper
330 100
332 96.1 75.2 112.8
141 53.7 43.4 65.2





#15

2-Fluorobiphenyl

Concen: 3.529 ng

RT: 12.983 min Scan# 11

Delta R.T. -0.005 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

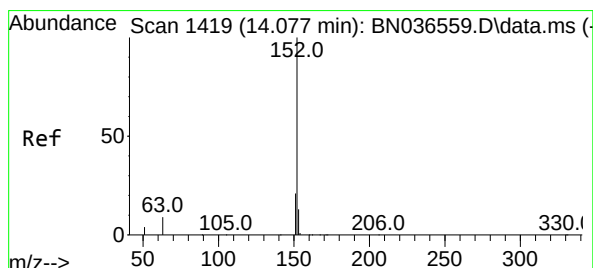
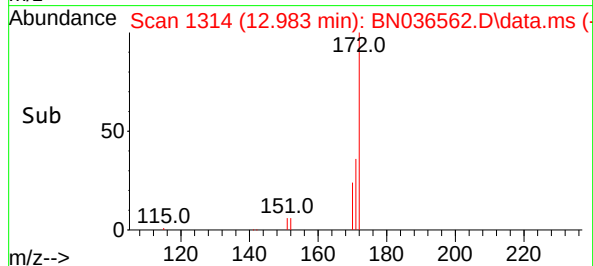
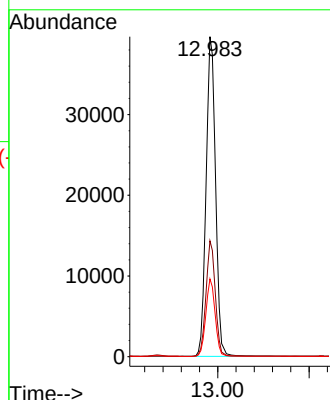
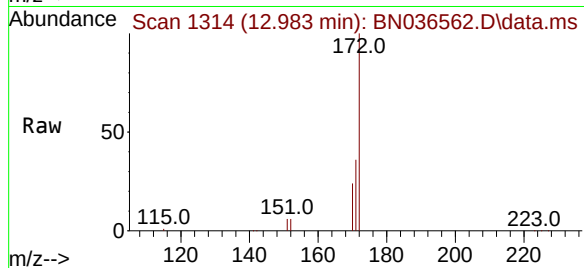
Tgt Ion:172 Resp: 81236

Ion Ratio Lower Upper

172 100

171 36.2 29.5 44.3

170 24.3 20.2 30.4



#16

Acenaphthylene

Concen: 3.516 ng

RT: 14.077 min Scan# 1419

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

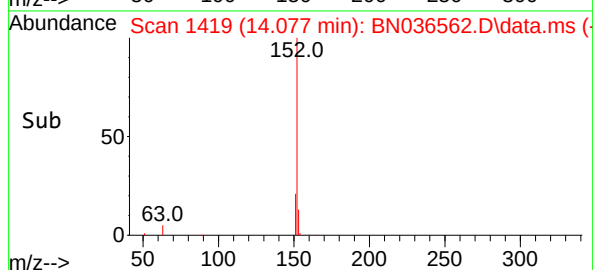
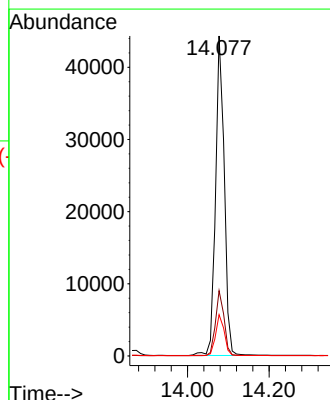
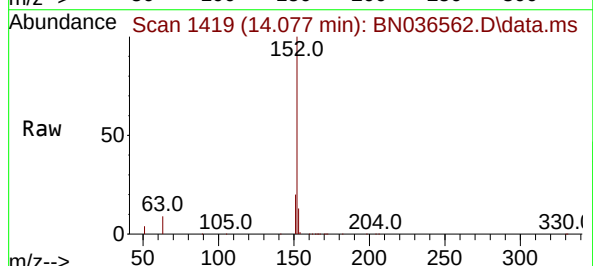
Tgt Ion:152 Resp: 65654

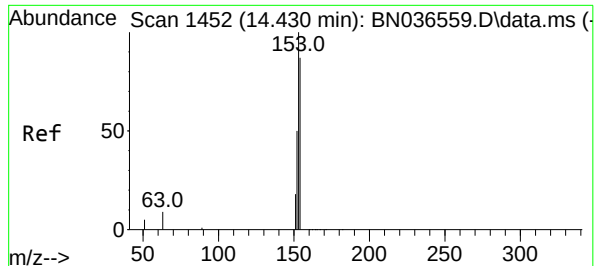
Ion Ratio Lower Upper

152 100

151 20.0 16.2 24.4

153 12.8 10.6 15.8

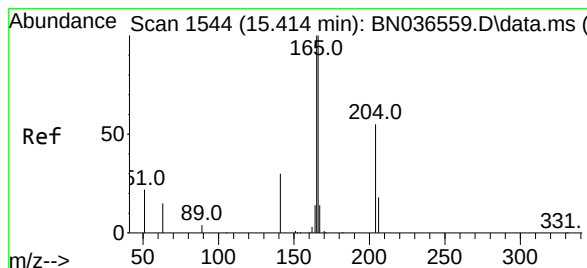
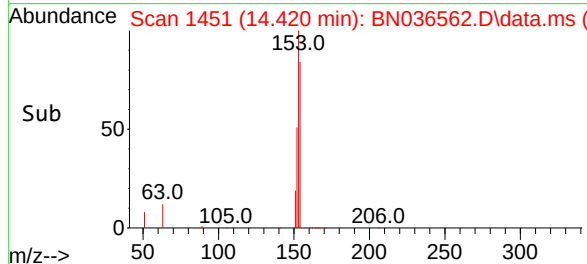
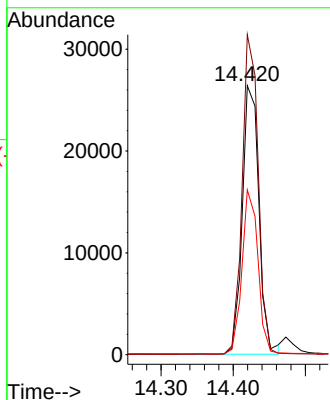
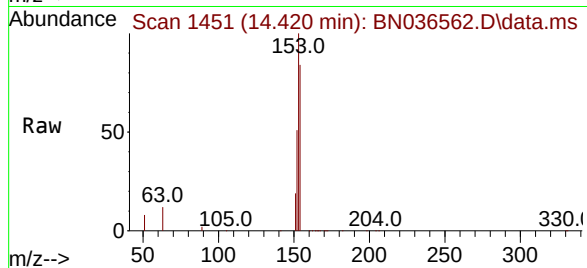




#17
Acenaphthene
Concen: 3.467 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

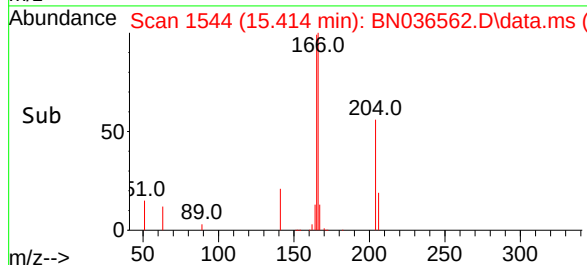
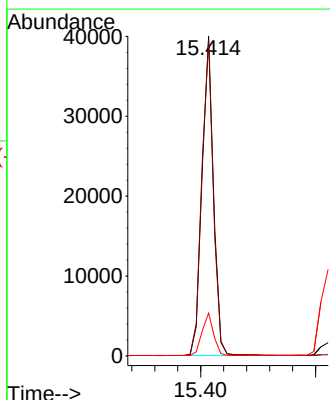
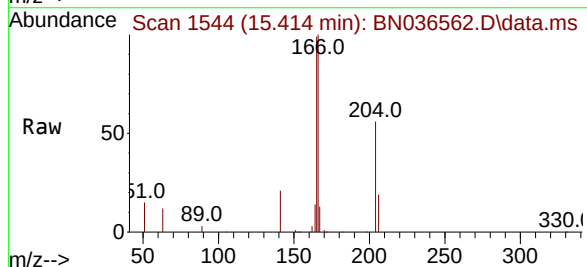
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

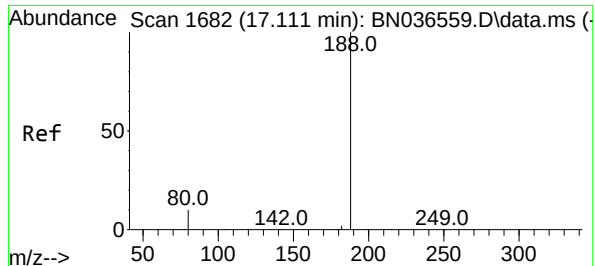
Tgt Ion:154 Resp: 42378
Ion Ratio Lower Upper
154 100
153 114.6 94.1 141.1
152 58.9 49.8 74.6



#18
Fluorene
Concen: 3.404 ng
RT: 15.414 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:166 Resp: 56295
Ion Ratio Lower Upper
166 100
165 100.2 79.8 119.8
167 13.0 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

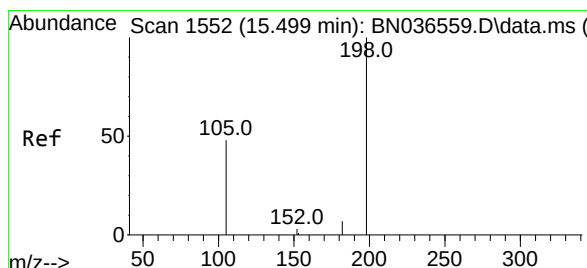
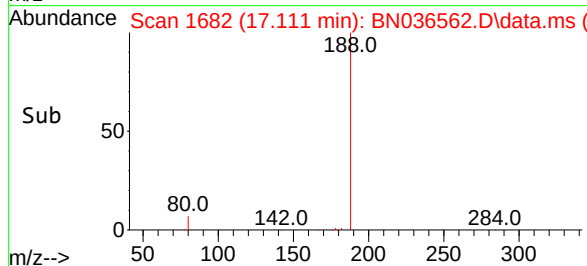
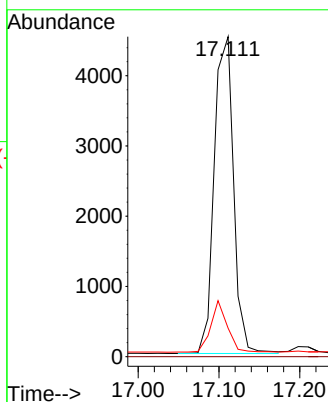
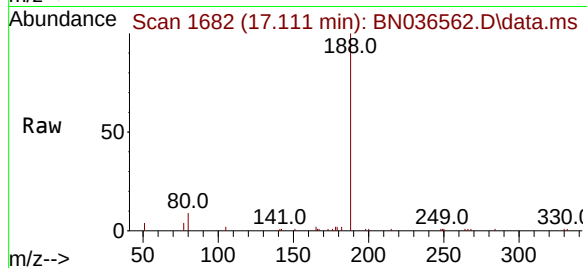
Tgt Ion:188 Resp: 7488

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.9 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 3.315 ng

RT: 15.489 min Scan# 1551

Delta R.T. -0.010 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

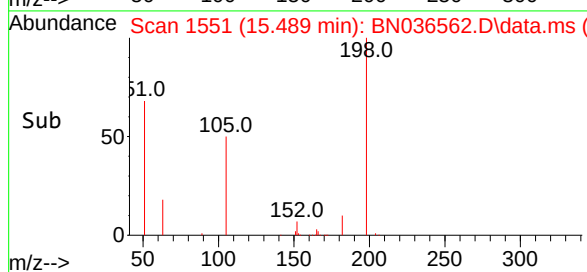
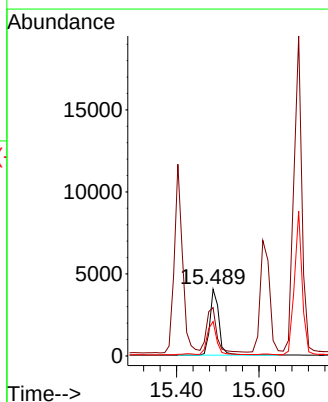
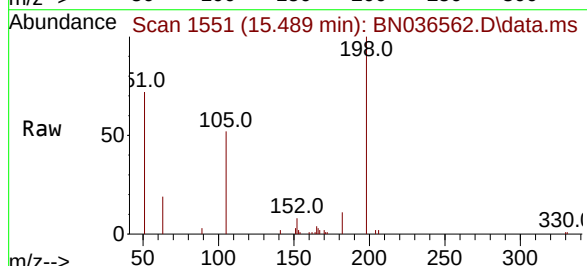
Tgt Ion:198 Resp: 6567

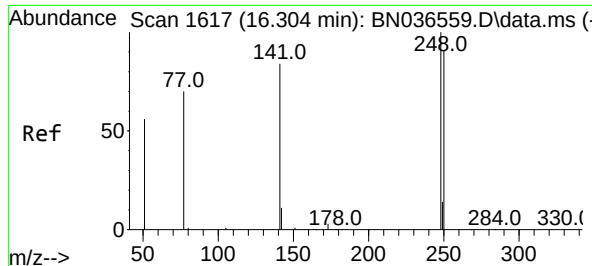
Ion Ratio Lower Upper

198 100

51 72.3 107.9 161.9#

105 51.5 56.2 84.2#

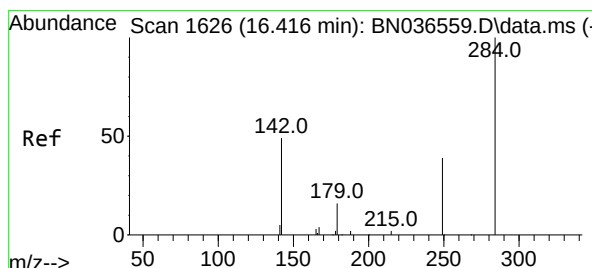
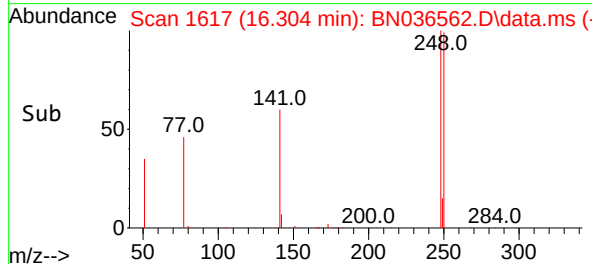
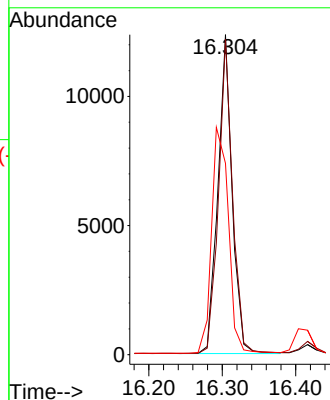
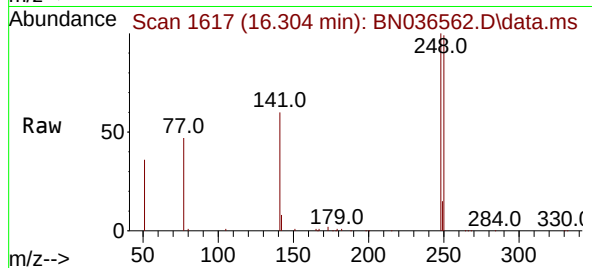




#21
4-Bromophenyl-phenylether
Concen: 3.549 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

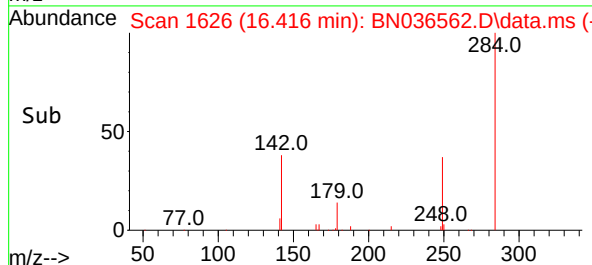
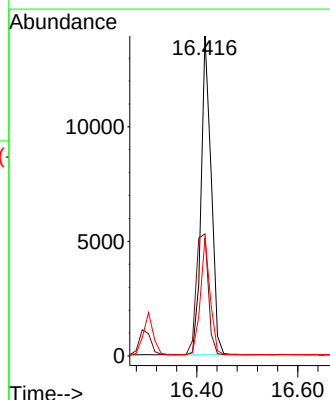
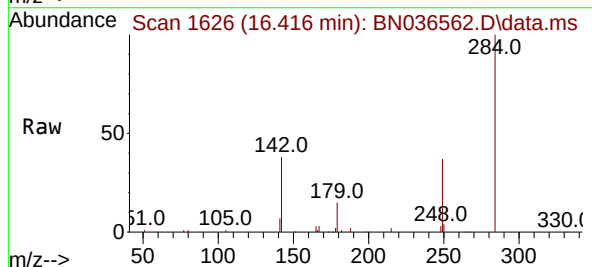
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

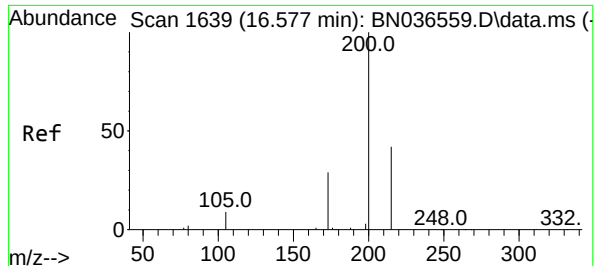
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.6	73.0	109.6
141	59.8	68.6	103.0



#22
Hexachlorobenzene
Concen: 3.406 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion	Ratio	Lower	Upper
284	100		
142	46.2	37.0	55.4
249	35.5	28.1	42.1

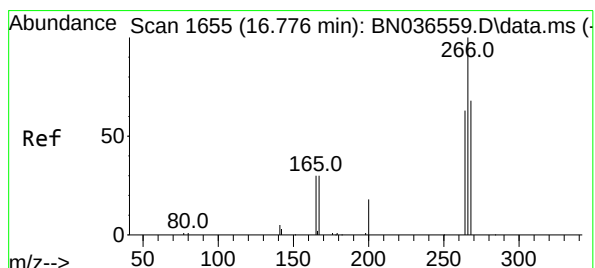
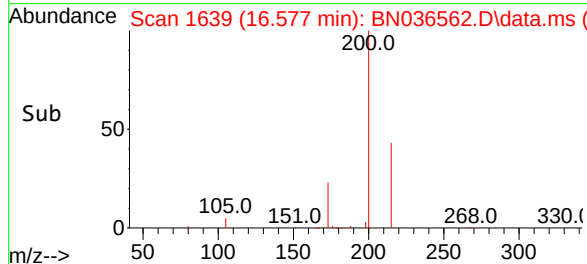
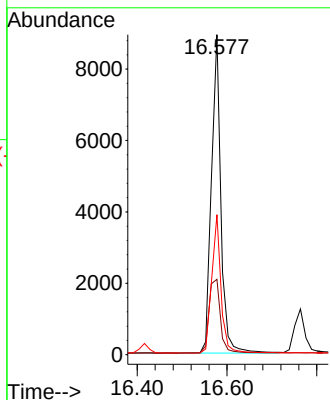
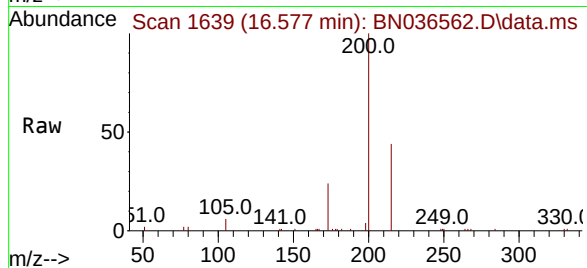




#23
Atrazine
Concen: 3.448 ng
RT: 16.577 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

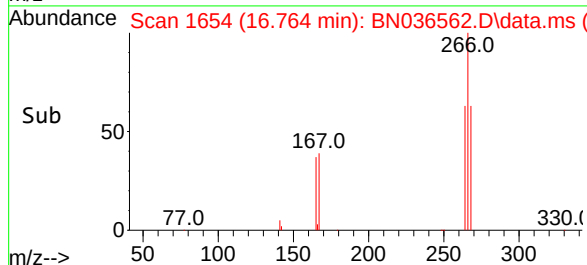
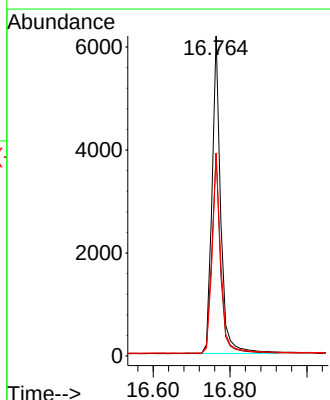
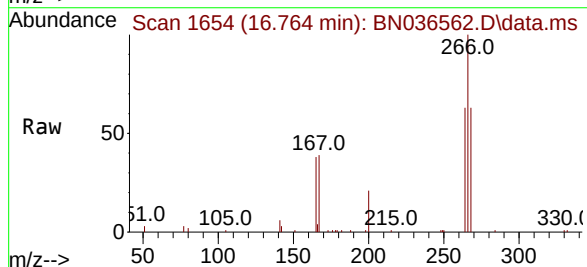
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

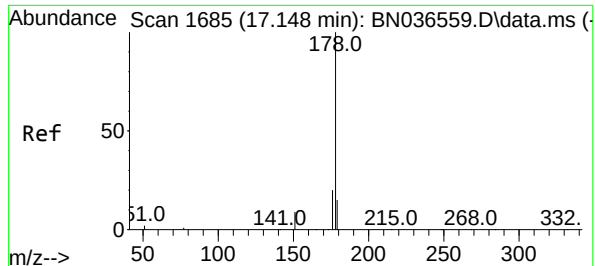
Tgt Ion	Ratio	Lower	Upper
200	100		
173	23.6	27.3	40.9
215	43.7	36.8	55.2



#24
Pentachlorophenol
Concen: 3.726 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.1	49.6	74.4
268	63.1	50.9	76.3

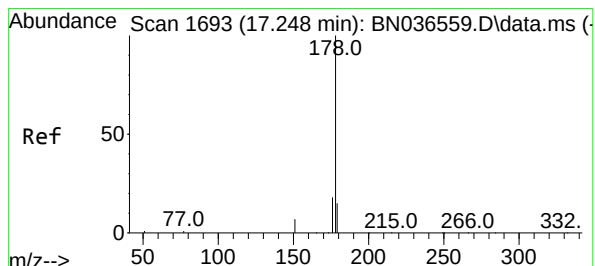
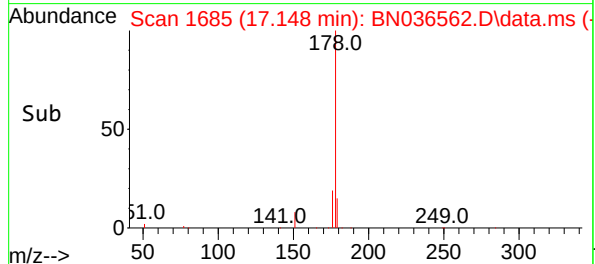
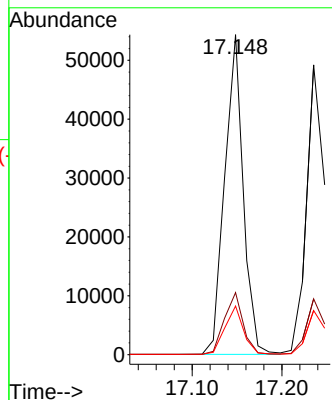
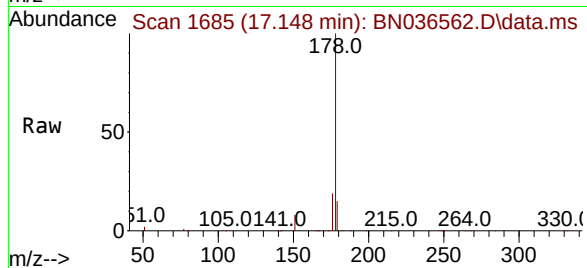




#25
Phenanthrene
Concen: 3.468 ng
RT: 17.148 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

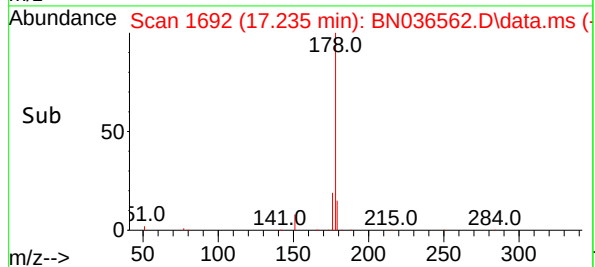
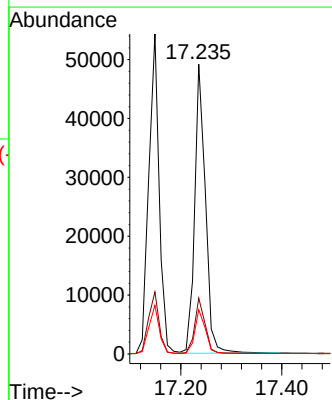
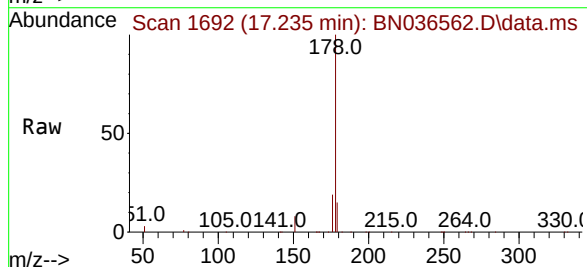
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

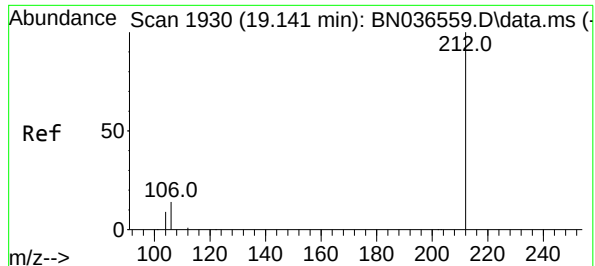
Tgt Ion:178 Resp: 77903
Ion Ratio Lower Upper
178 100
176 19.5 15.9 23.9
179 15.1 12.2 18.4



#26
Anthracene
Concen: 3.590 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:178 Resp: 72775
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 15.2 12.6 18.8





#27

Fluoranthene-d10

Concen: 3.394 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

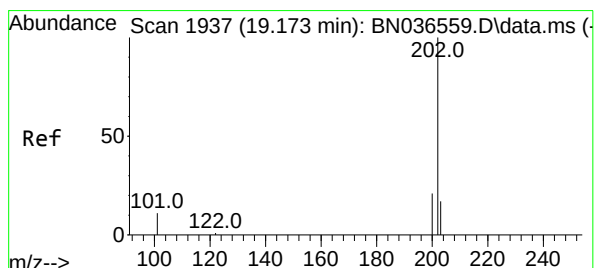
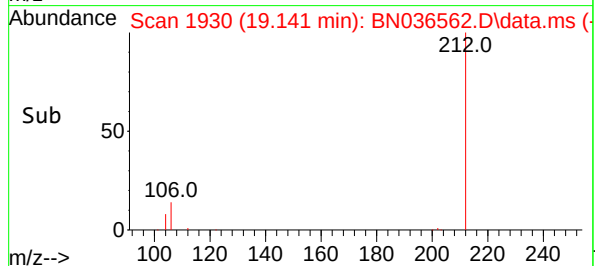
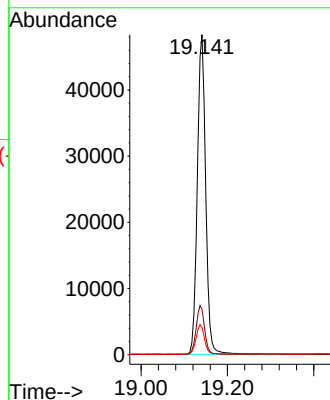
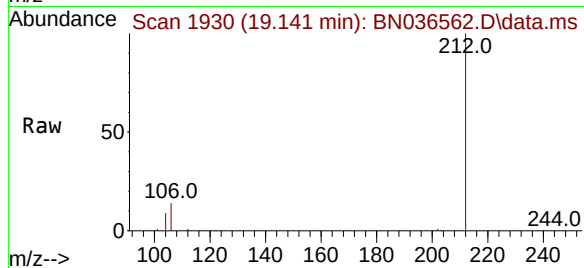
Tgt Ion:212 Resp: 65134

Ion Ratio Lower Upper

212 100

106 15.4 11.8 17.6

104 9.2 7.3 10.9



#28

Fluoranthene

Concen: 3.436 ng

RT: 19.169 min Scan# 1936

Delta R.T. -0.005 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

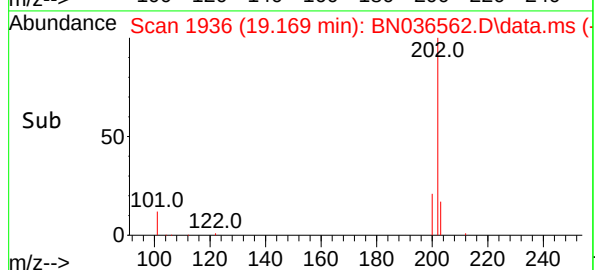
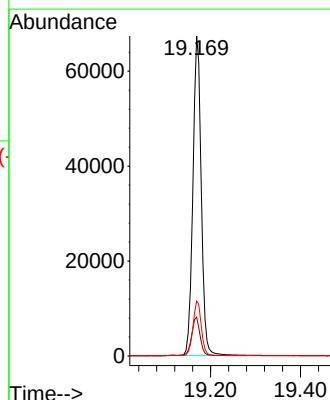
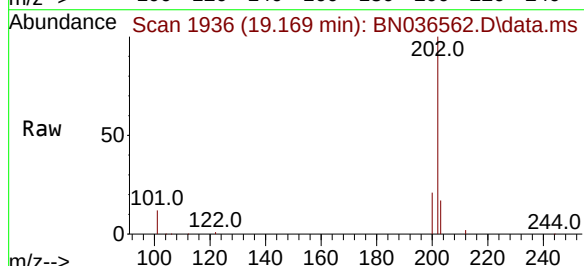
Tgt Ion:202 Resp: 86688

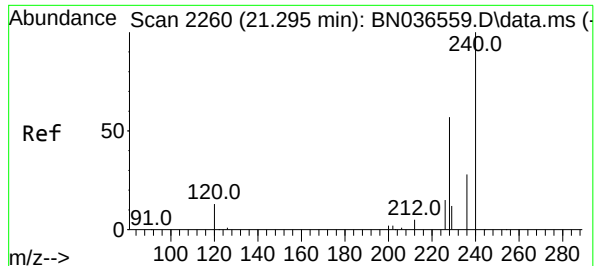
Ion Ratio Lower Upper

202 100

101 12.3 9.4 14.0

203 17.0 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

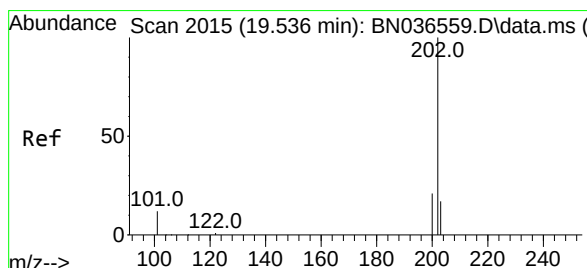
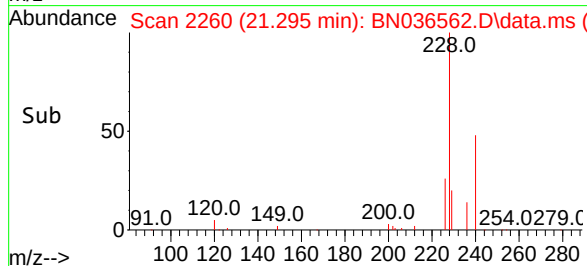
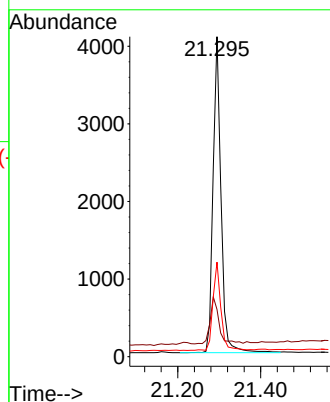
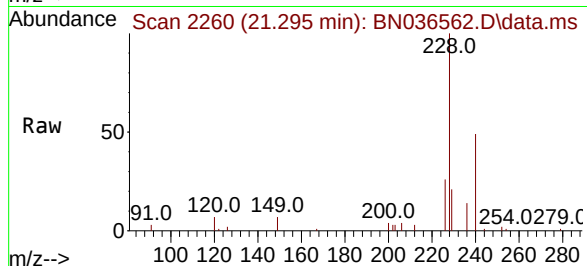
Tgt Ion:240 Resp: 5439

Ion Ratio Lower Upper

240 100

120 14.8 14.6 22.0

236 29.5 24.1 36.1



#30

Pyrene

Concen: 3.260 ng

RT: 19.531 min Scan# 2014

Delta R.T. -0.005 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

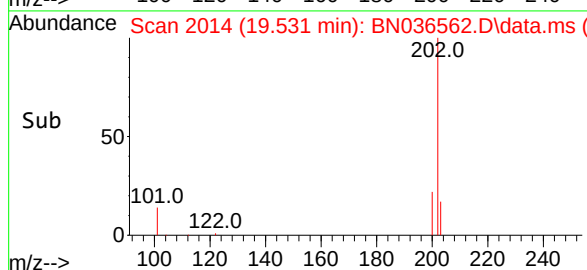
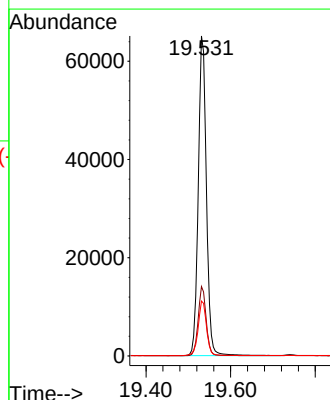
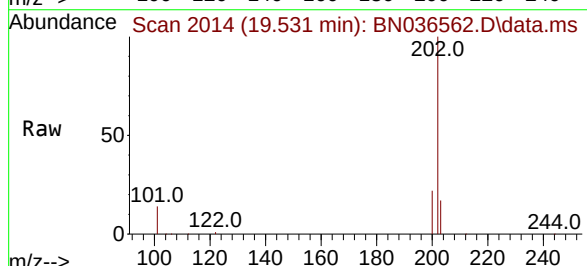
Tgt Ion:202 Resp: 86694

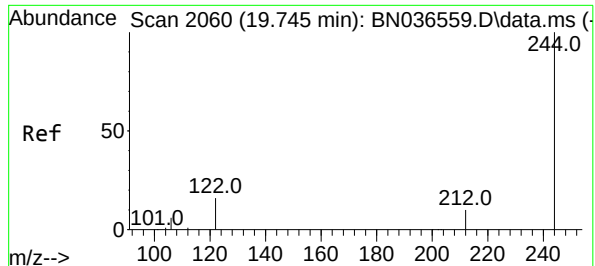
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.6 14.1 21.1

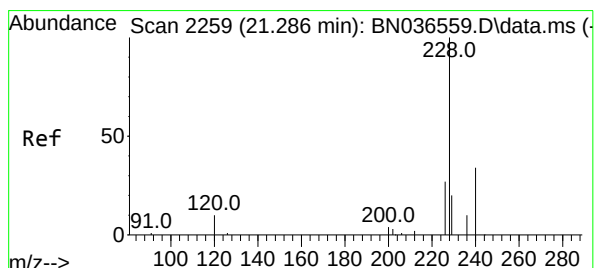
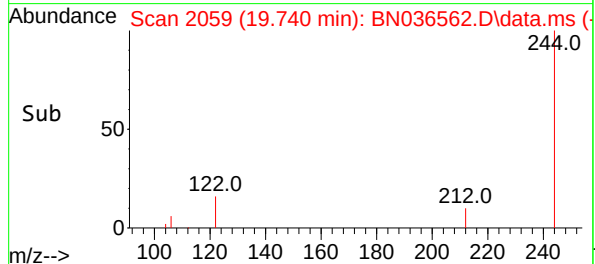
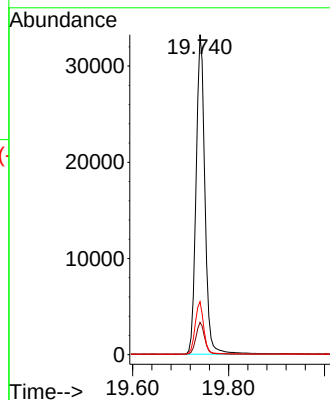
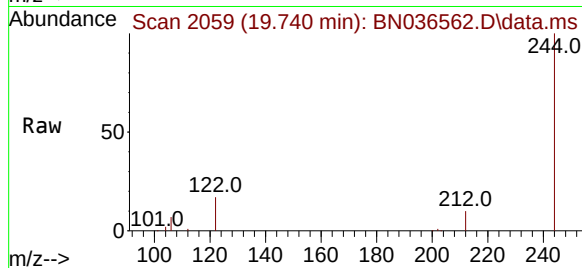




#31
Terphenyl-d14
Concen: 3.297 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

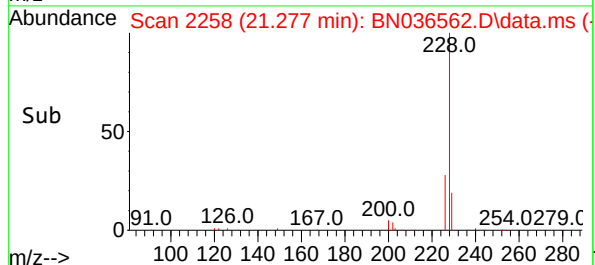
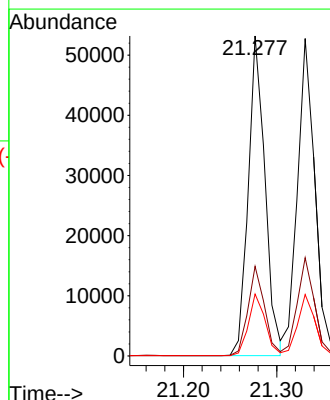
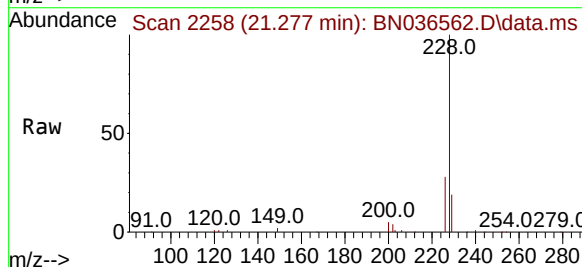
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

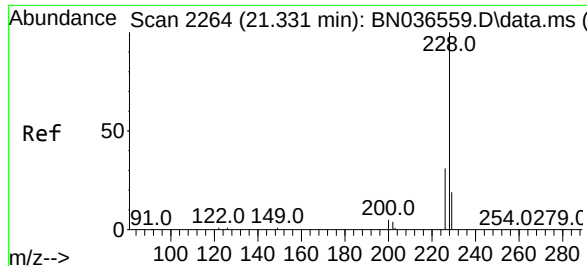
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.1	9.6	14.4
122	16.6	13.9	20.9



#32
Benzo(a)anthracene
Concen: 3.516 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.5	33.7
229	19.4	16.6	25.0





#33

Chrysene

Concen: 3.403 ng

RT: 21.331 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

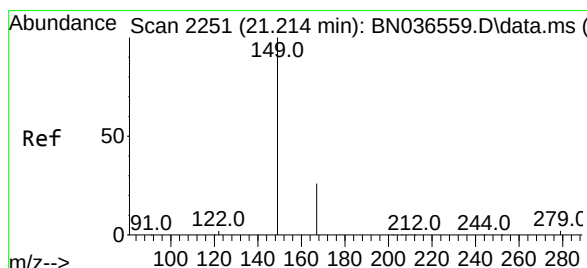
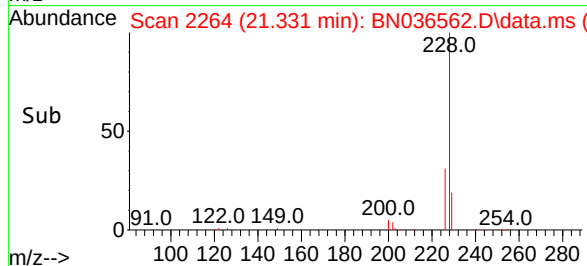
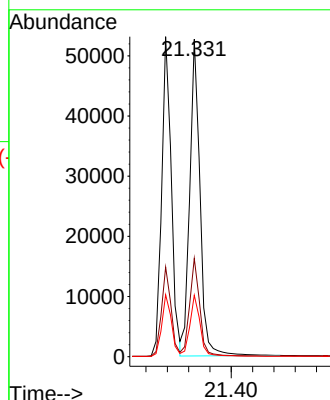
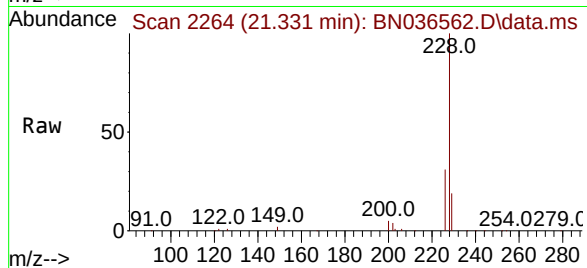
Tgt Ion:228 Resp: 70334

Ion Ratio Lower Upper

228 100

226 31.0 25.3 37.9

229 19.4 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 2.947 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

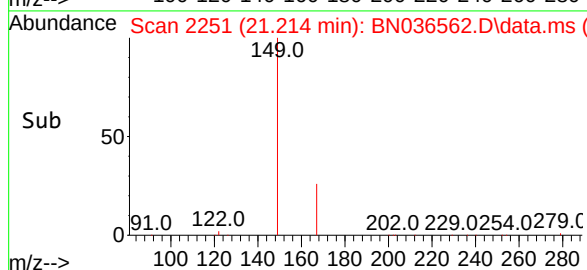
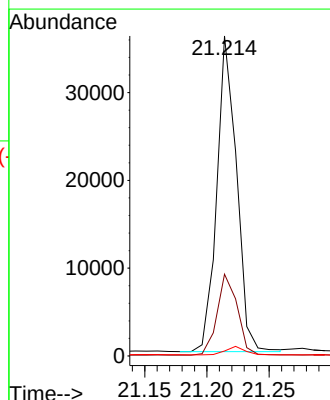
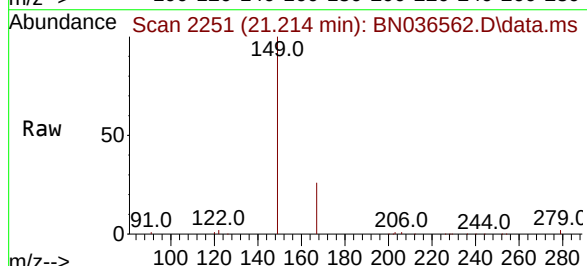
Tgt Ion:149 Resp: 39682

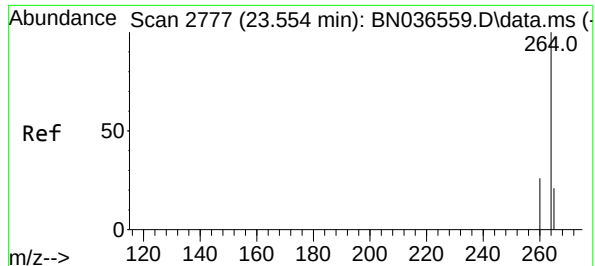
Ion Ratio Lower Upper

149 100

167 26.3 20.7 31.1

279 2.6 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.551 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

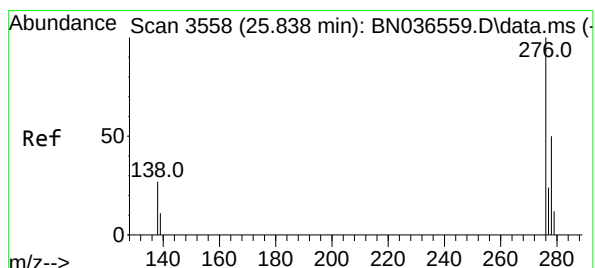
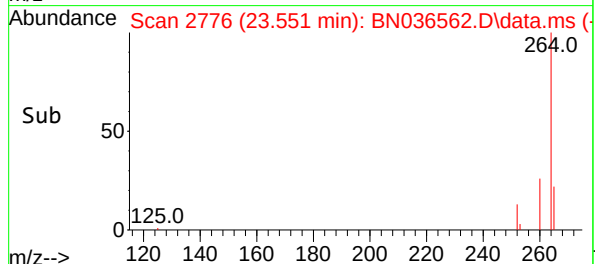
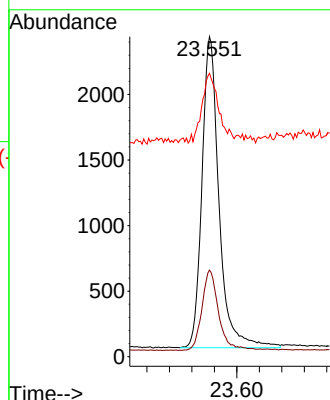
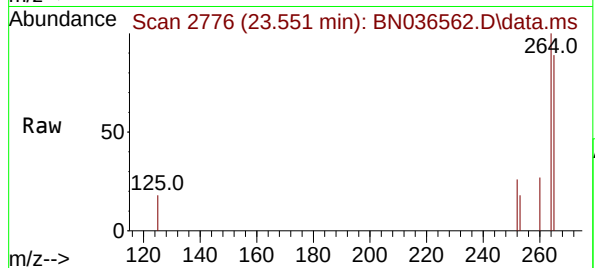
Tgt Ion:264 Resp: 5002

Ion Ratio Lower Upper

264 100

260 27.0 22.6 33.8

265 88.6 88.1 132.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.754 ng

RT: 25.829 min Scan# 3555

Delta R.T. -0.009 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

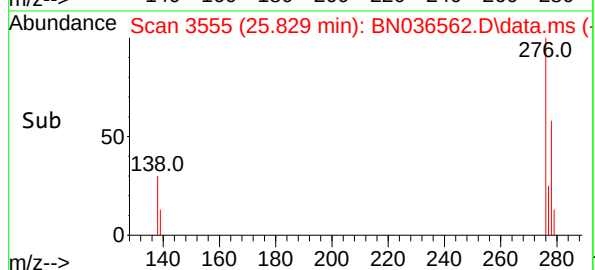
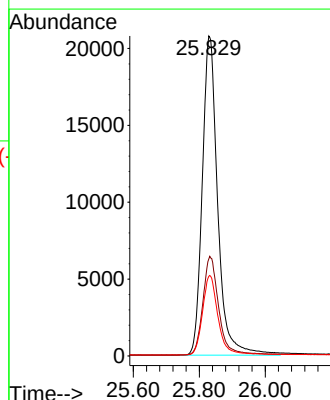
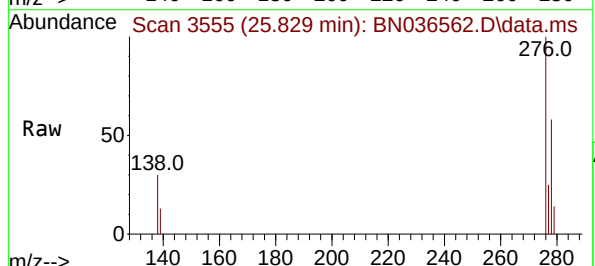
Tgt Ion:276 Resp: 67767

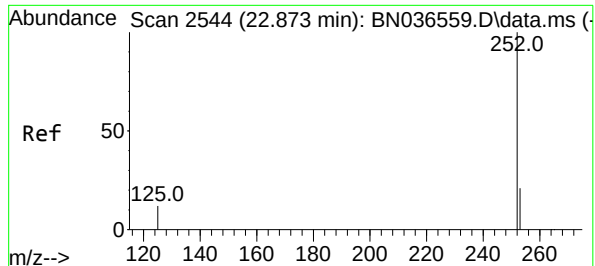
Ion Ratio Lower Upper

276 100

138 31.3 23.4 35.2

277 24.8 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 3.506 ng

RT: 22.870 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

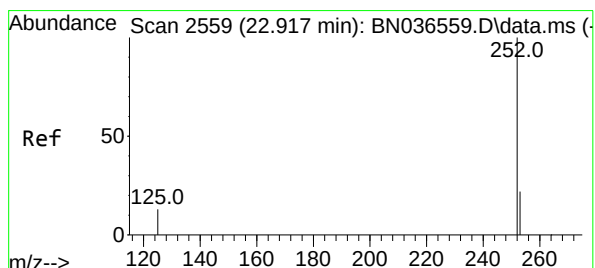
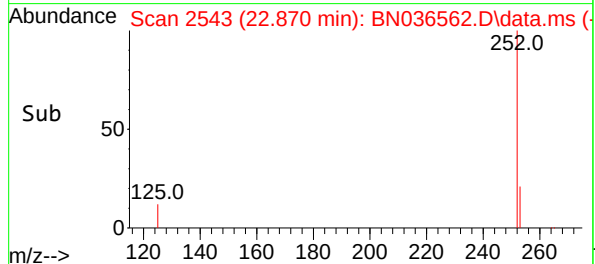
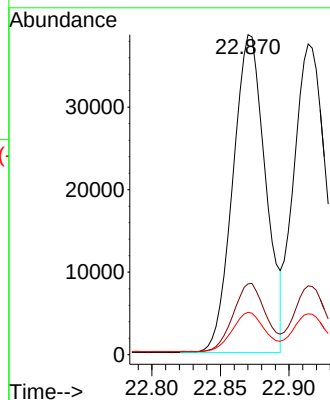
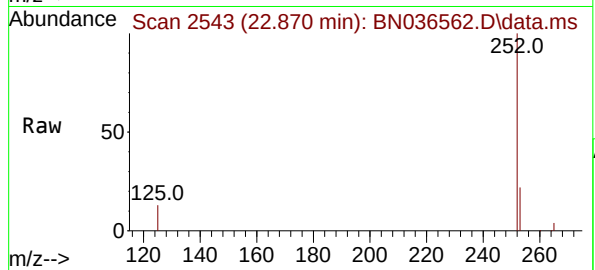
Tgt Ion:252 Resp: 63823

Ion Ratio Lower Upper

252 100

253 22.2 23.9 35.9#

125 13.3 17.4 26.2#



#38

Benzo(k)fluoranthene

Concen: 3.425 ng

RT: 22.914 min Scan# 2558

Delta R.T. -0.003 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

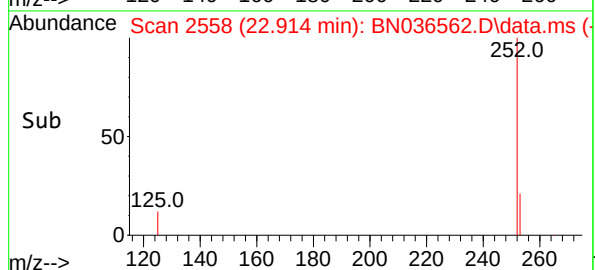
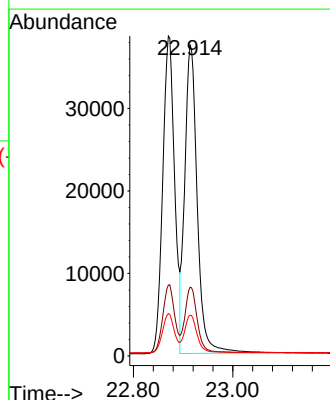
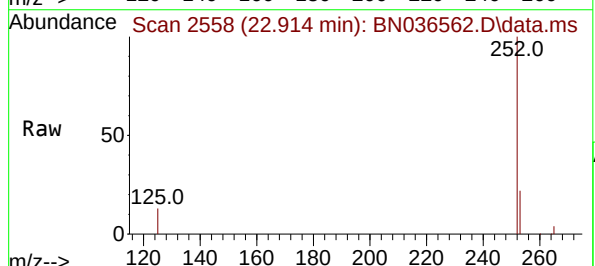
Tgt Ion:252 Resp: 65410

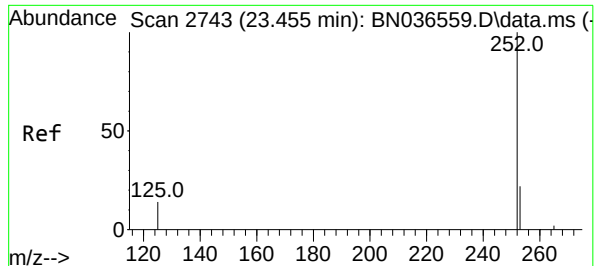
Ion Ratio Lower Upper

252 100

253 22.1 24.6 36.8#

125 13.2 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 3.523 ng

RT: 23.452 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

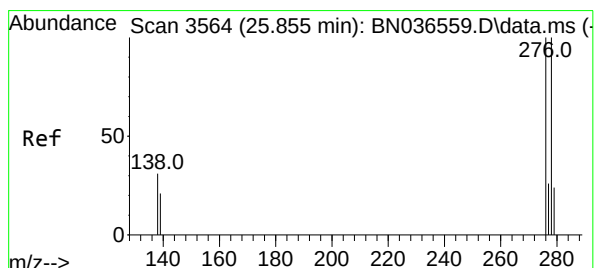
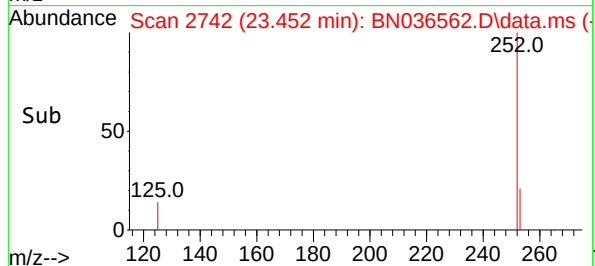
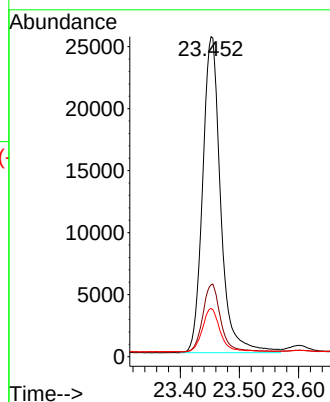
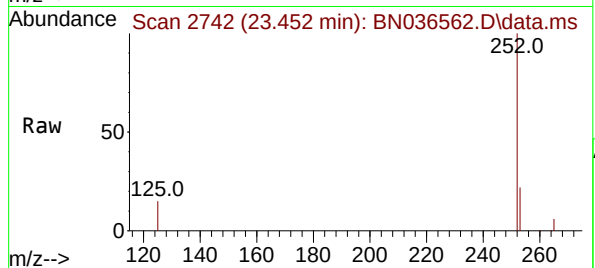
Tgt Ion:252 Resp: 54009

Ion Ratio Lower Upper

252 100

253 22.4 27.8 41.8#

125 15.1 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 3.846 ng

RT: 25.843 min Scan# 3560

Delta R.T. -0.012 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

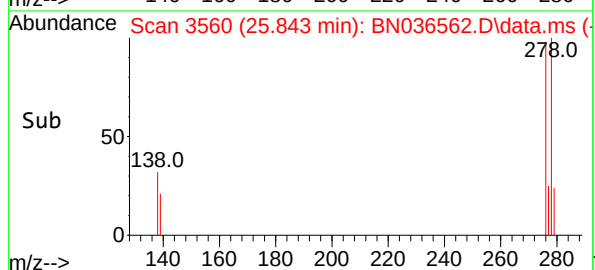
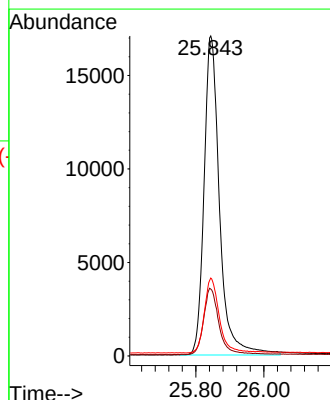
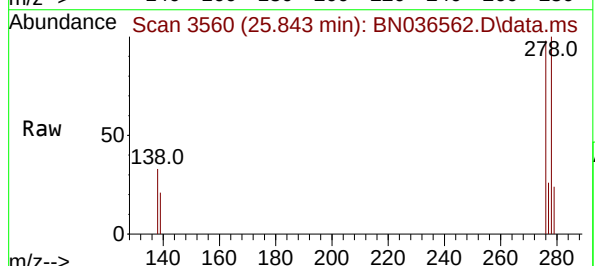
Tgt Ion:278 Resp: 54058

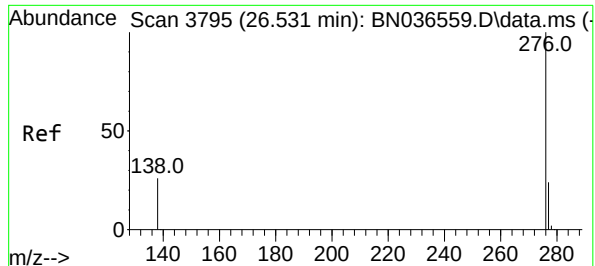
Ion Ratio Lower Upper

278 100

139 20.9 20.8 31.2

279 24.4 28.8 43.2#





#41

Benzo(g,h,i)perylene

Concen: 3.606 ng

RT: 26.528 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN036562.D

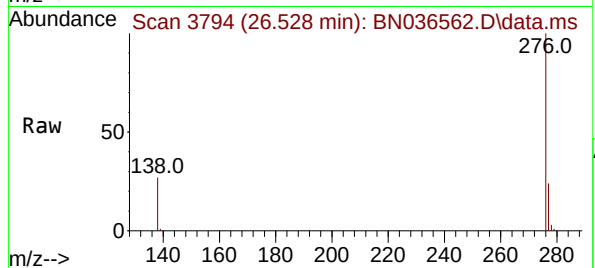
Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



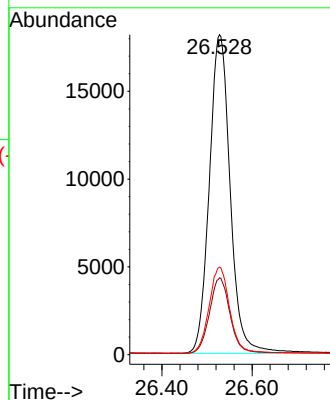
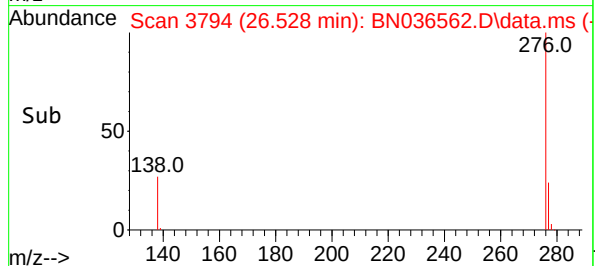
Tgt Ion:276 Resp: 57986

Ion Ratio Lower Upper

276 100

277 24.0 22.2 33.4

138 27.4 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036563.D
 Acq On : 10 Mar 2025 15:19
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Mar 10 16:03:20 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

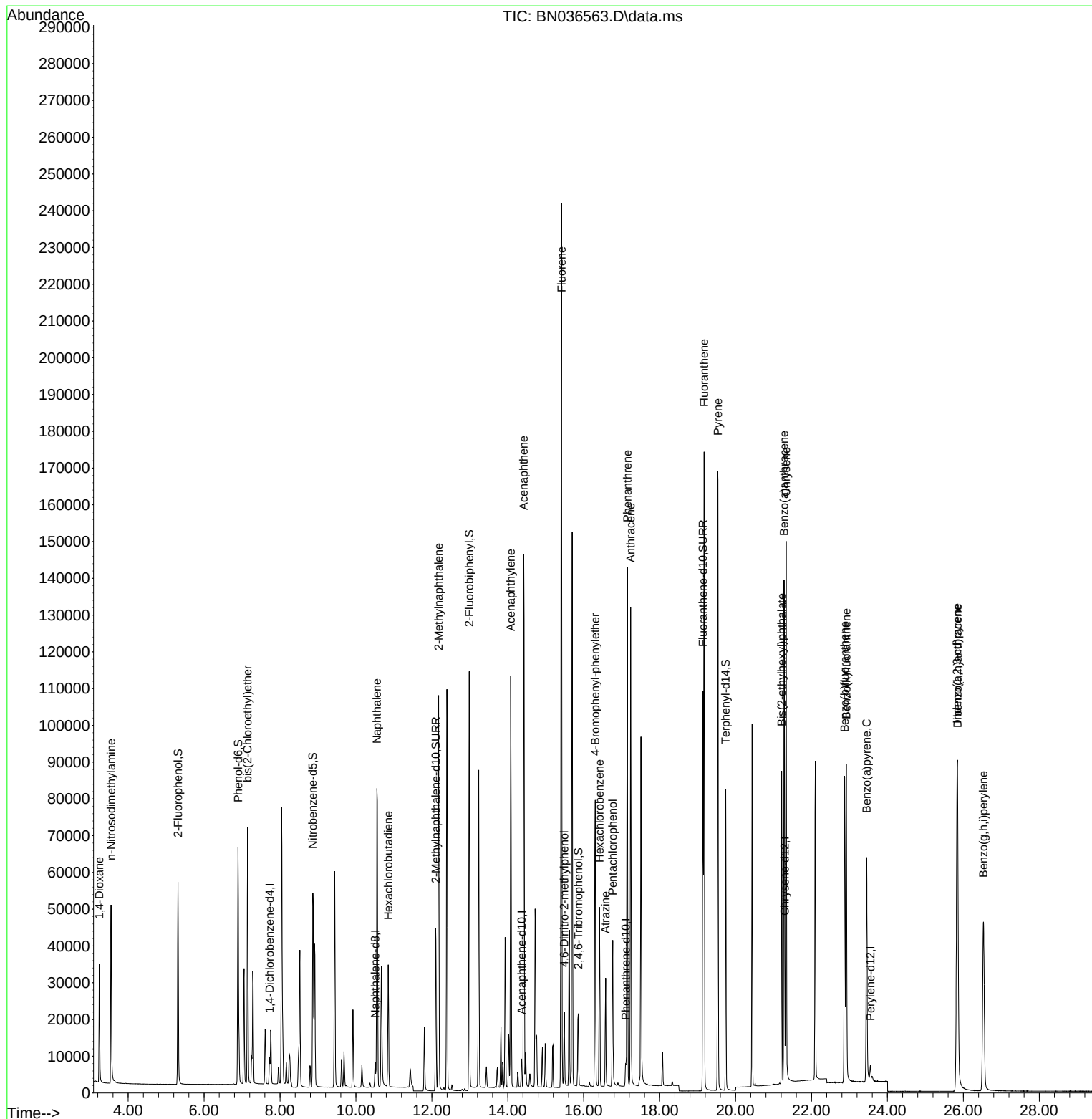
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	3261	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	7995	0.400	ng	# 0.00
13) Acenaphthene-d10	14.366	164	4664	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	9061	0.400	ng	0.00
29) Chrysene-d12	21.295	240	6472	0.400	ng	0.00
35) Perylene-d12	23.551	264	5580	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	37154	4.889	ng	0.00
5) Phenol-d6	6.894	99	48085	5.122	ng	0.00
8) Nitrobenzene-d5	8.864	82	41042	4.719	ng	-0.01
11) 2-Methylnaphthalene-d10	12.101	152	58048	4.881	ng	-0.01
14) 2,4,6-Tribromophenol	15.858	330	10964	5.181	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	141052	5.199	ng	0.00
27) Fluoranthene-d10	19.141	212	113317	4.879	ng	0.00
31) Terphenyl-d14	19.740	244	74923	4.832	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	16253	4.492	ng	97
3) n-Nitrosodimethylamine	3.550	42	32163	4.395	ng	# 95
6) bis(2-Chloroethyl)ether	7.146	93	44986	4.636	ng	99
9) Naphthalene	10.551	128	109289	4.647	ng	97
10) Hexachlorobutadiene	10.850	225	25105	4.535	ng	# 99
12) 2-Methylnaphthalene	12.177	142	73010	4.879	ng	98
16) Acenaphthylene	14.077	152	112792	5.125	ng	99
17) Acenaphthene	14.420	154	72446	5.028	ng	96
18) Fluorene	15.414	166	96215	4.937	ng	97
20) 4,6-Dinitro-2-methylph...	15.489	198	12627	4.968	ng	# 56
21) 4-Bromophenyl-phenylether	16.304	248	28657	5.048	ng	# 81
22) Hexachlorobenzene	16.416	284	32686	4.770	ng	99
23) Atrazine	16.577	200	22705	4.988	ng	# 90
24) Pentachlorophenol	16.764	266	17612	5.634	ng	99
25) Phenanthrene	17.148	178	135347	4.979	ng	100
26) Anthracene	17.235	178	125954	5.135	ng	99
28) Fluoranthene	19.169	202	149107	4.883	ng	99
30) Pyrene	19.536	202	148584	4.695	ng	100
32) Benzo(a)anthracene	21.277	228	114481	5.087	ng	98
33) Chrysene	21.331	228	117149	4.764	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	70345	4.390	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.835	276	109561	5.440	ng	98
37) Benzo(b)fluoranthene	22.873	252	104498	5.146	ng	# 84
38) Benzo(k)fluoranthene	22.917	252	106995	5.022	ng	# 82
39) Benzo(a)pyrene	23.452	252	88413	5.170	ng	# 76
40) Dibenzo(a,h)anthracene	25.846	278	87308	5.568	ng	# 84
41) Benzo(g,h,i)perylene	26.531	276	93067	5.189	ng	93

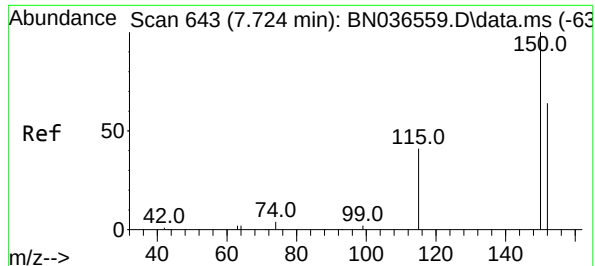
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036563.D
Acq On : 10 Mar 2025 15:19
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Mar 10 16:03:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

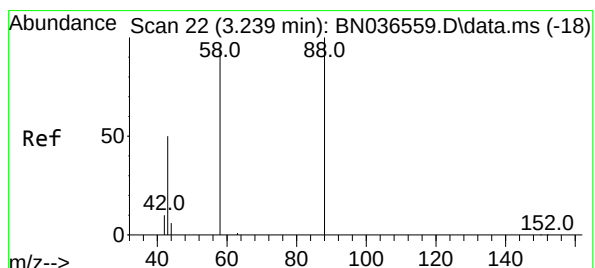
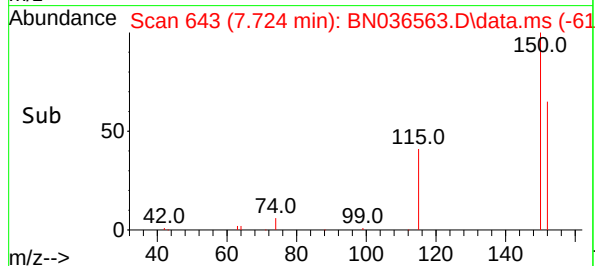
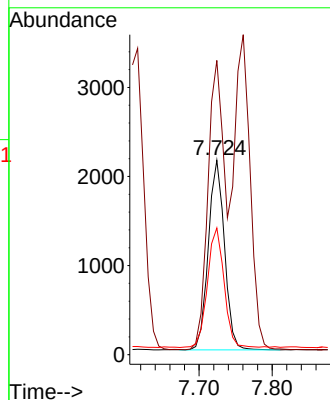
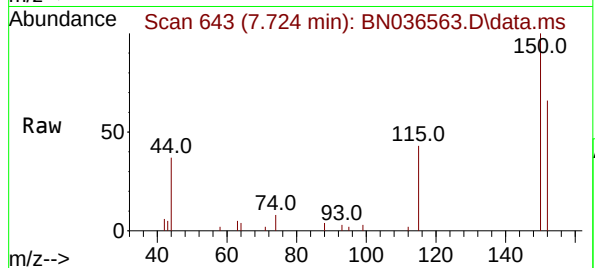




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

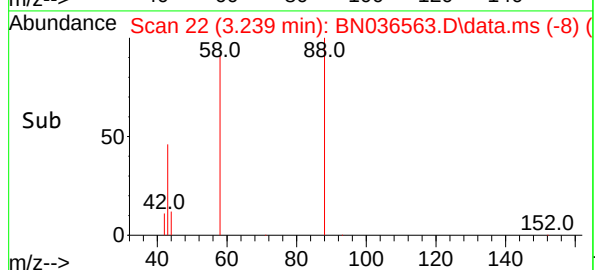
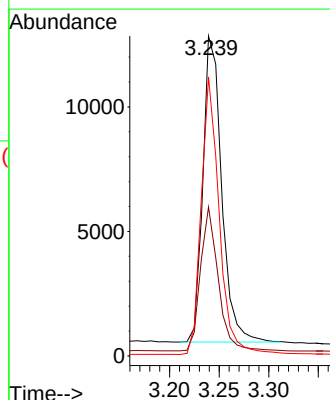
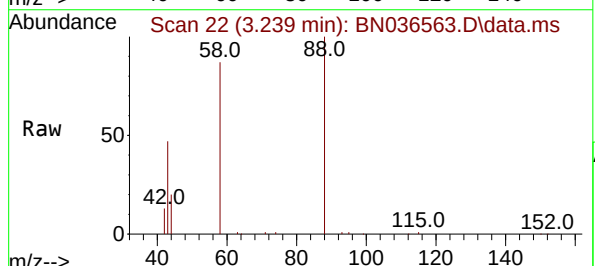
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

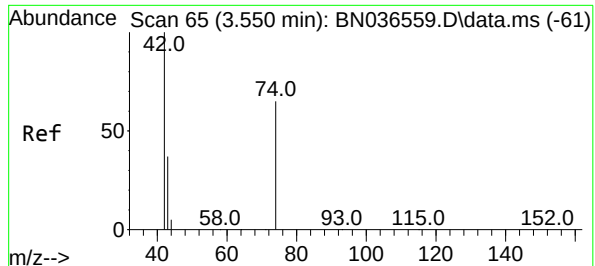
Tgt Ion:152 Resp: 3261
Ion Ratio Lower Upper
152 100
150 151.3 123.7 185.5
115 65.2 54.3 81.5



#2
1,4-Dioxane
Concen: 4.492 ng
RT: 3.239 min Scan# 22
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion: 88 Resp: 16253
Ion Ratio Lower Upper
88 100
43 44.3 37.8 56.8
58 86.4 67.4 101.2

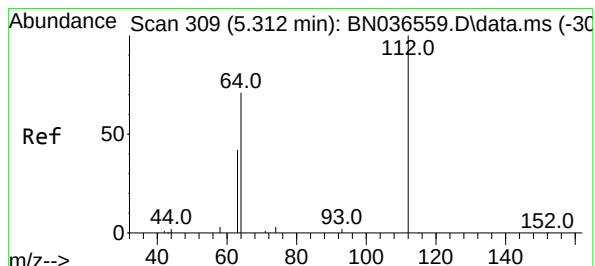
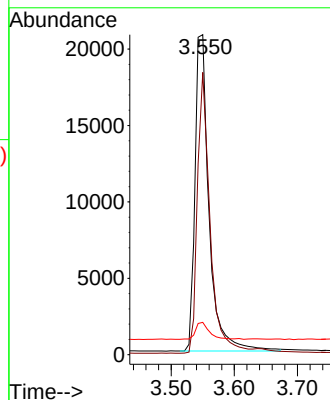
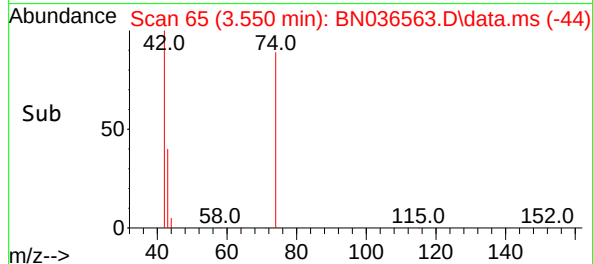
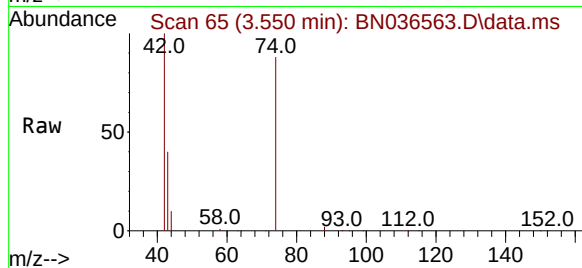




#3
n-Nitrosodimethylamine
Concen: 4.395 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

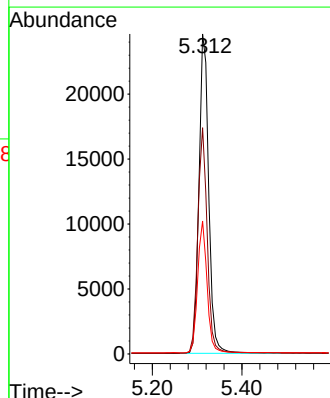
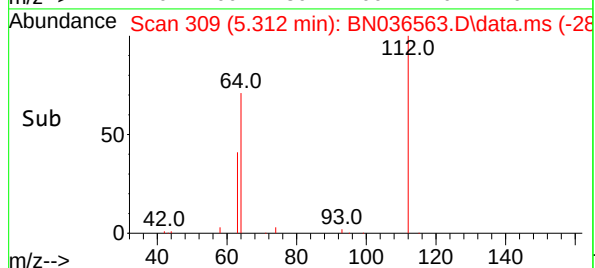
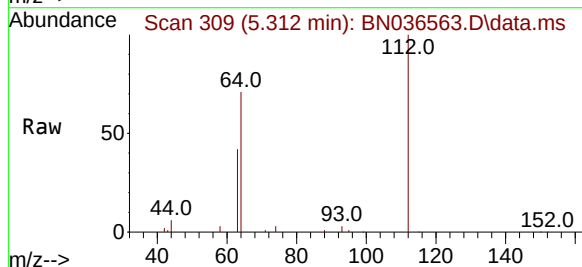
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

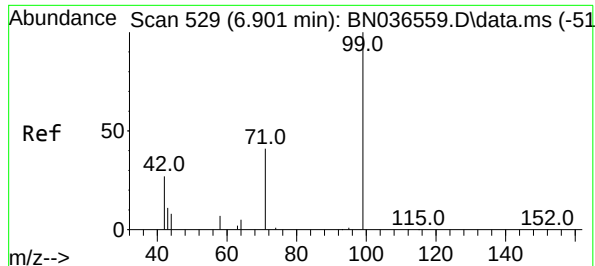
Tgt Ion:	42	Resp:	32163
Ion	Ratio	Lower	Upper
42	100		
74	79.9	60.6	90.8
44	5.3	6.3	9.5



#4
2-Fluorophenol
Concen: 4.889 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:	112	Resp:	37154
Ion	Ratio	Lower	Upper
112	100		
64	68.5	53.1	79.7
63	40.1	31.8	47.8

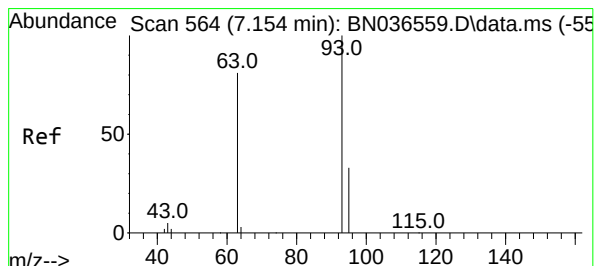
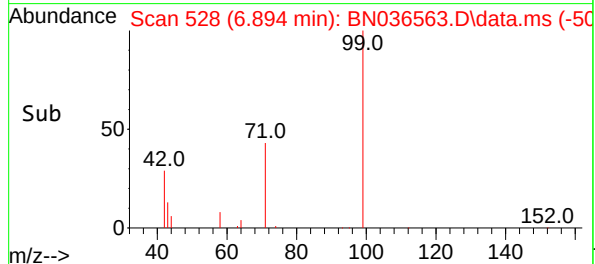
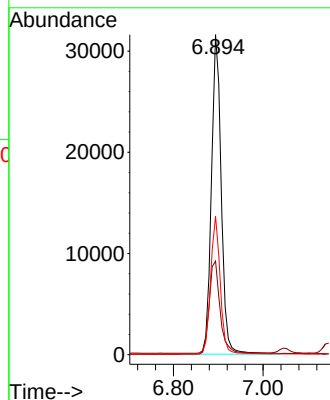
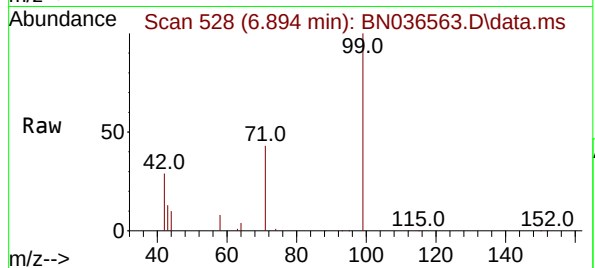




#5
Phenol-d6
Concen: 5.122 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

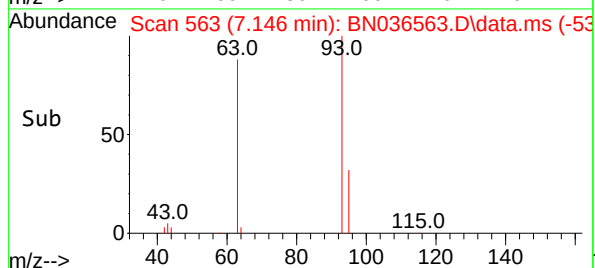
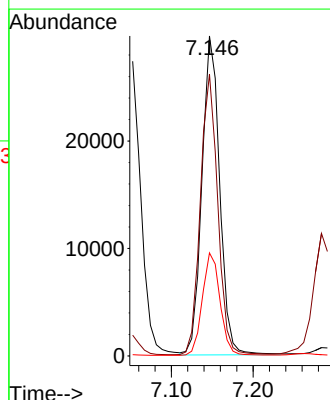
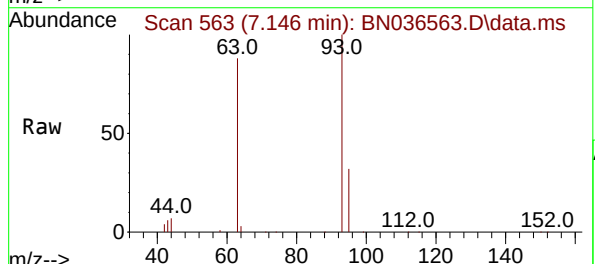
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

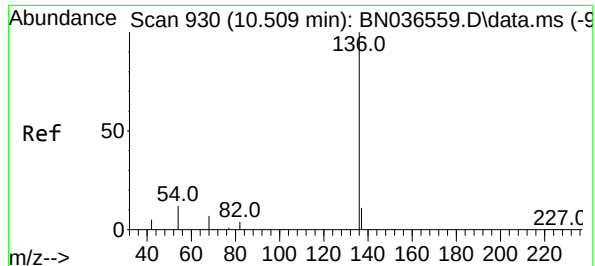
Tgt Ion: 99 Resp: 48085
Ion Ratio Lower Upper
99 100
42 31.8 26.5 39.7
71 42.6 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 4.636 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion: 93 Resp: 44986
Ion Ratio Lower Upper
93 100
63 85.8 67.7 101.5
95 32.0 25.6 38.4

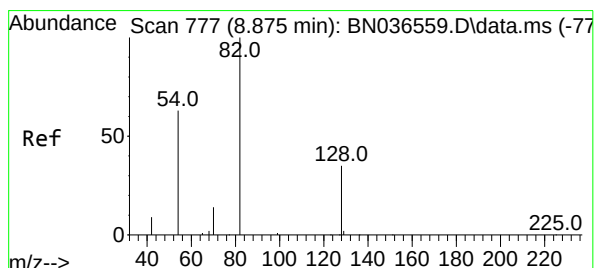
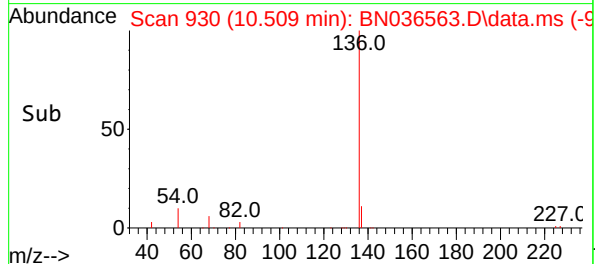
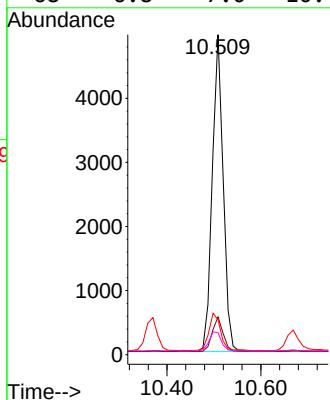
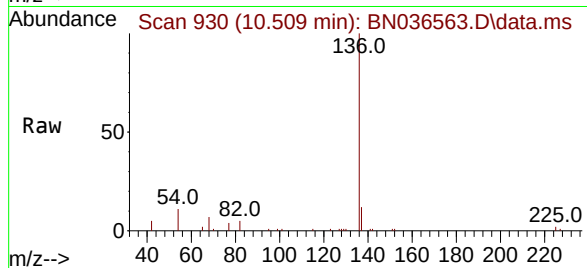




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

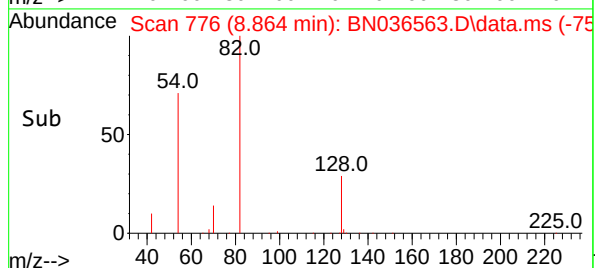
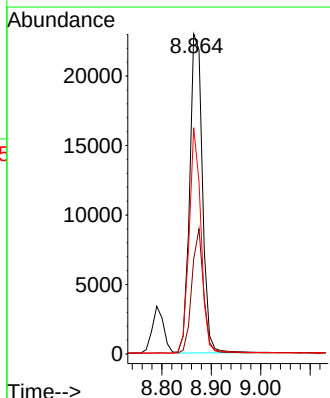
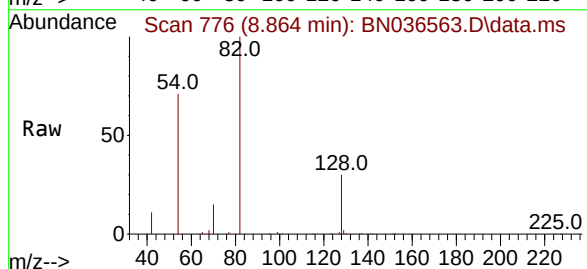
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

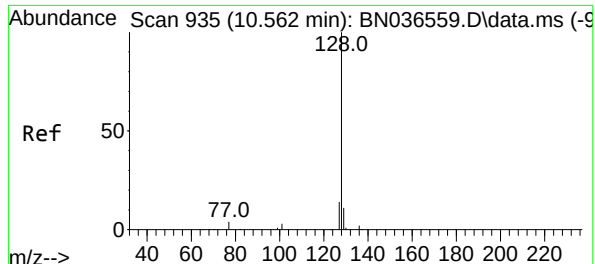
Tgt Ion:	136	Resp:	7995
Ion	Ratio	Lower	Upper
136	100		
137	11.8	10.3	15.5
54	10.9	11.5	17.3#
68	6.8	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 4.719 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:	82	Resp:	41042
Ion	Ratio	Lower	Upper
82	100		
128	29.7	30.6	45.8#
54	70.7	52.2	78.4

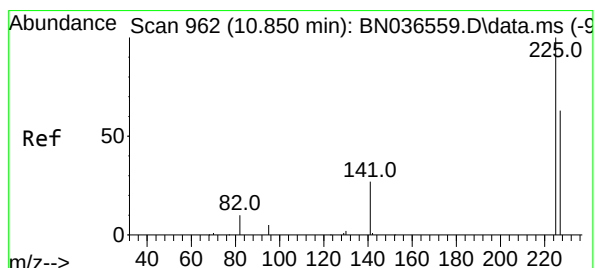
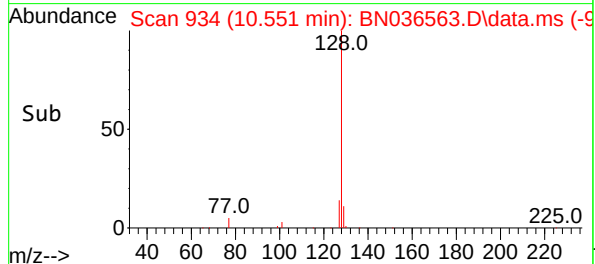
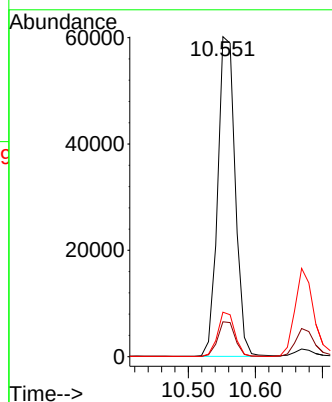
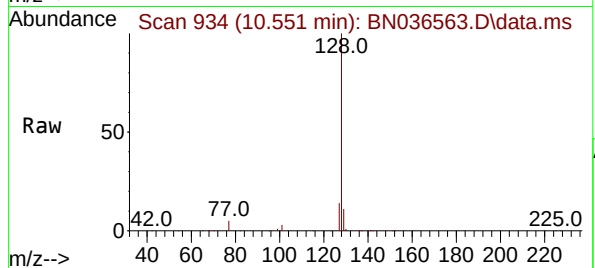




#9
Naphthalene
Concen: 4.647 ng
RT: 10.551 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

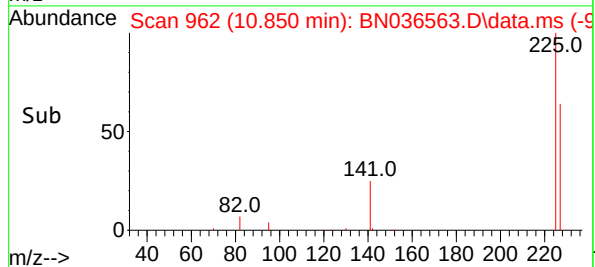
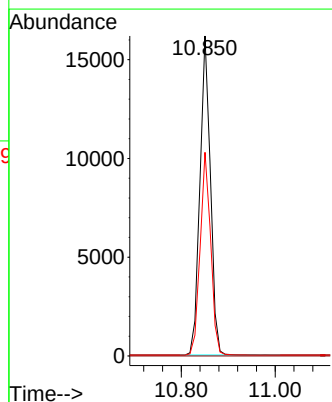
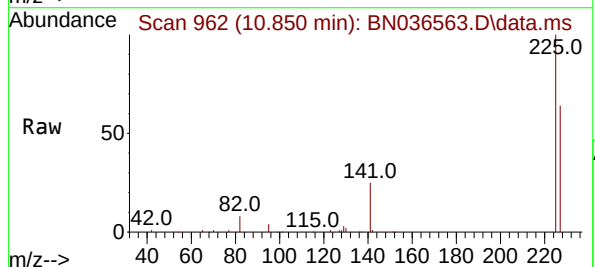
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

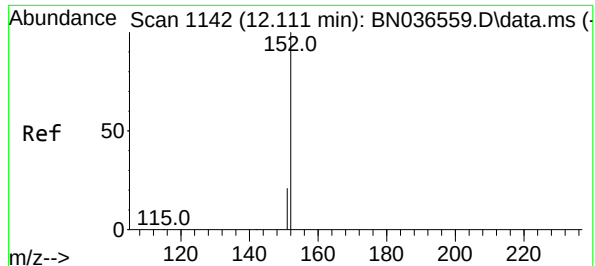
Tgt Ion:128 Resp: 109289
Ion Ratio Lower Upper
128 100
129 10.9 9.8 14.6
127 13.9 11.8 17.8



#10
Hexachlorobutadiene
Concen: 4.535 ng
RT: 10.850 min Scan# 962
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:225 Resp: 25105
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 51.8 77.8

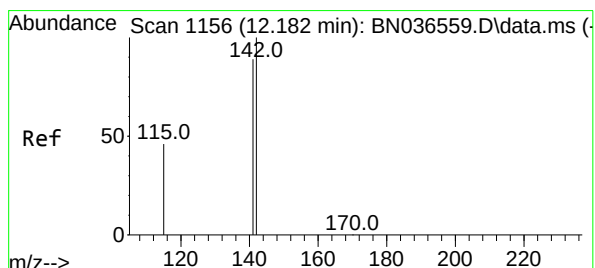
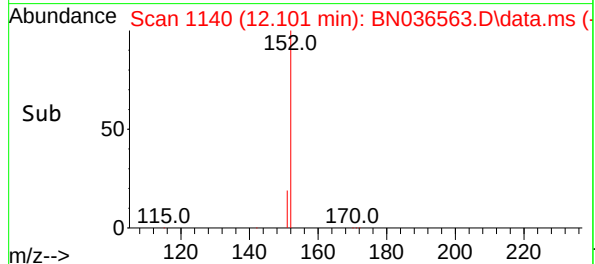
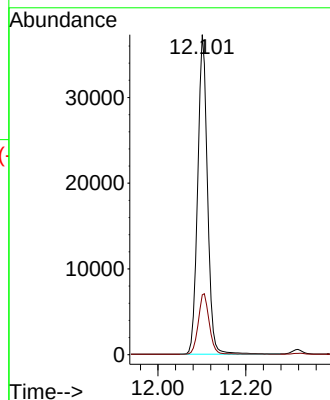
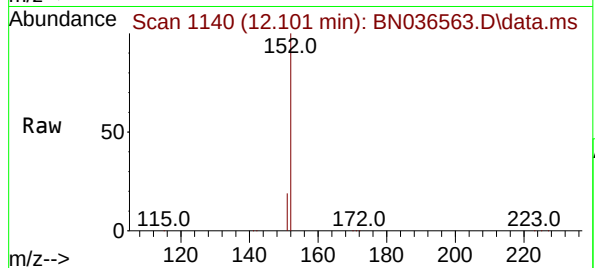




#11
2-Methylnaphthalene-d10
Concen: 4.881 ng
RT: 12.101 min Scan# 1142
Delta R.T. -0.010 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

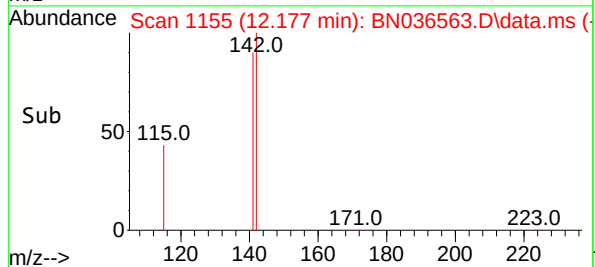
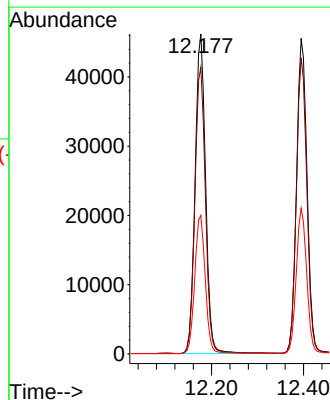
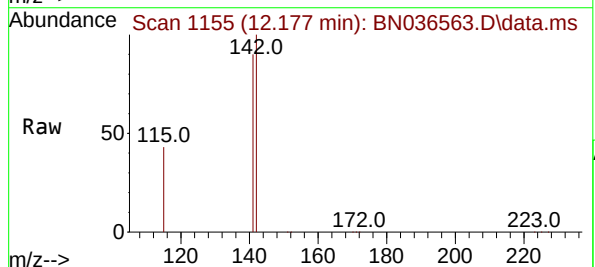
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

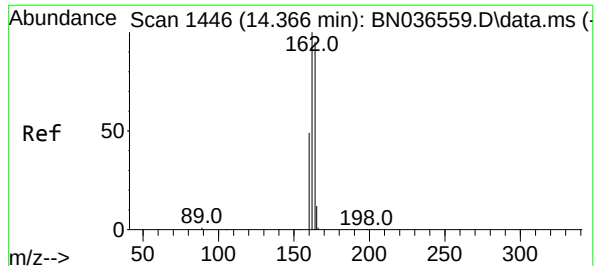
Tgt Ion:152 Resp: 58048
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6



#12
2-Methylnaphthalene
Concen: 4.879 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:142 Resp: 73010
Ion Ratio Lower Upper
142 100
141 89.6 71.7 107.5
115 43.2 38.3 57.5

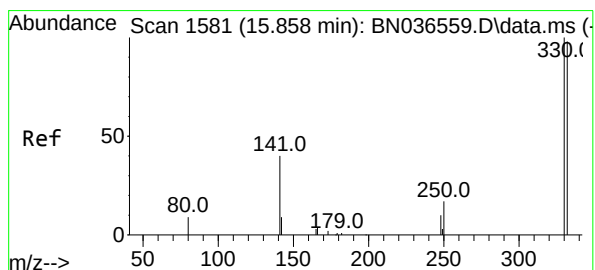
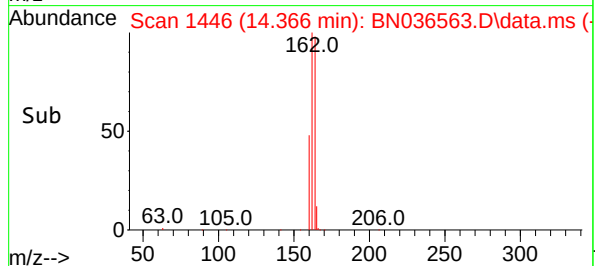
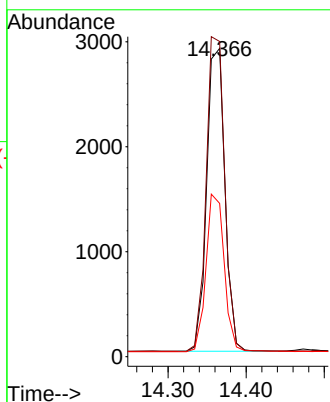
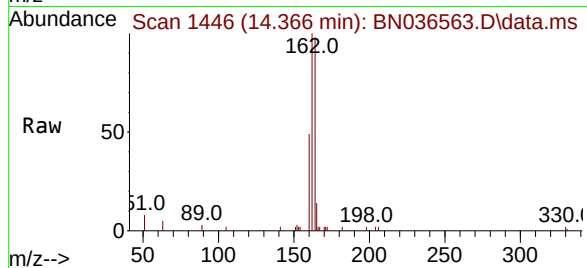




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

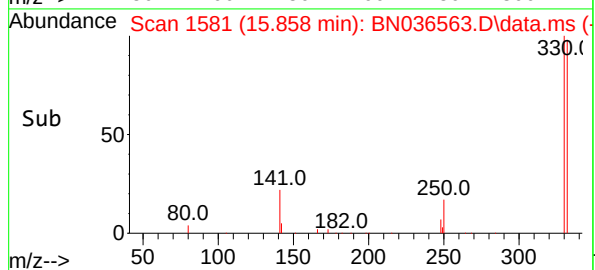
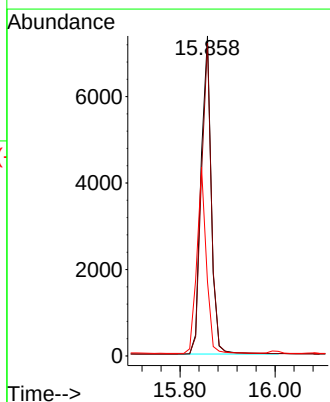
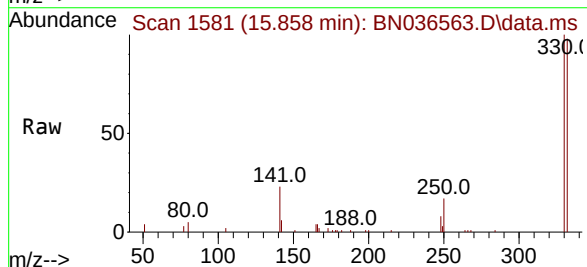
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

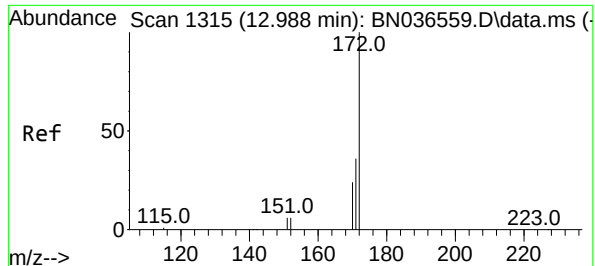
Tgt Ion:164 Resp: 4664
Ion Ratio Lower Upper
164 100
162 102.2 84.2 126.2
160 49.7 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 5.181 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:330 Resp: 10964
Ion Ratio Lower Upper
330 100
332 95.9 75.2 112.8
141 54.7 43.4 65.2





#15

2-Fluorobiphenyl

Concen: 5.199 ng

RT: 12.983 min Scan# 1

Delta R.T. -0.005 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

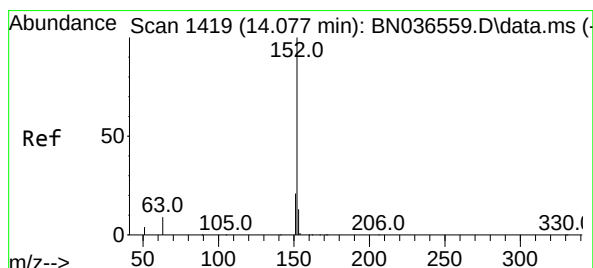
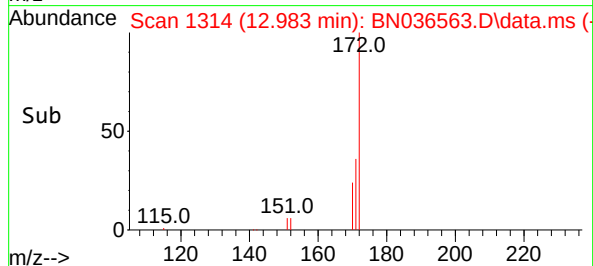
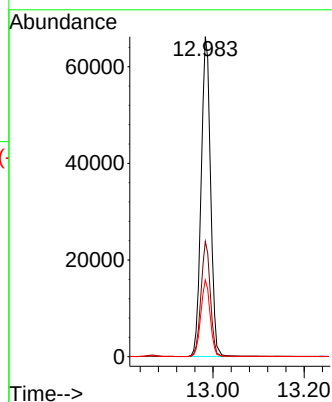
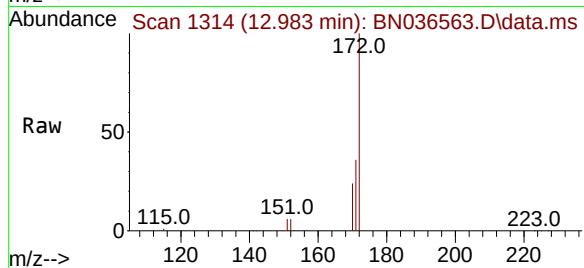
Tgt Ion:172 Resp: 141052

Ion Ratio Lower Upper

172 100

171 36.0 29.5 44.3

170 24.0 20.2 30.4



#16

Acenaphthylene

Concen: 5.125 ng

RT: 14.077 min Scan# 1419

Delta R.T. -0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

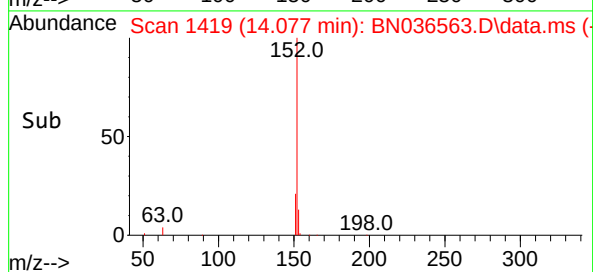
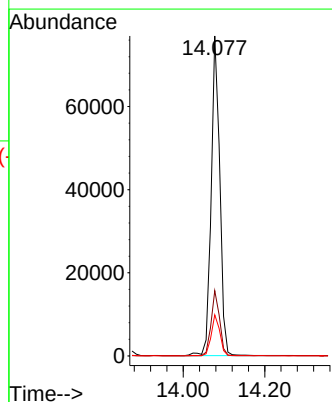
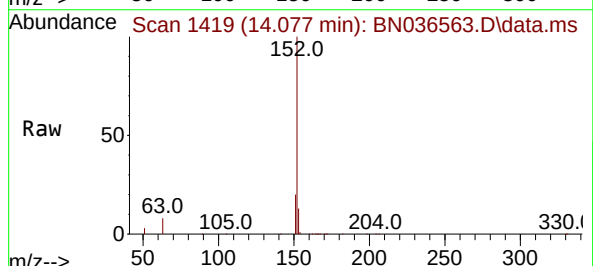
Tgt Ion:152 Resp: 112792

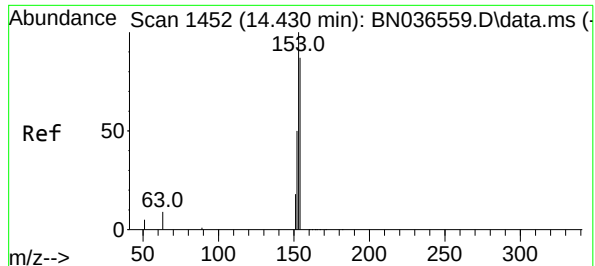
Ion Ratio Lower Upper

152 100

151 20.0 16.2 24.4

153 12.8 10.6 15.8

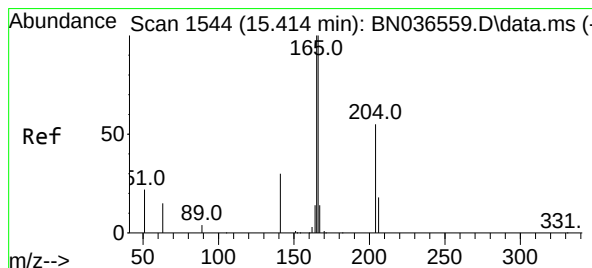
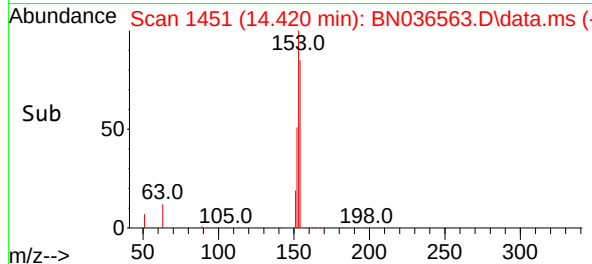
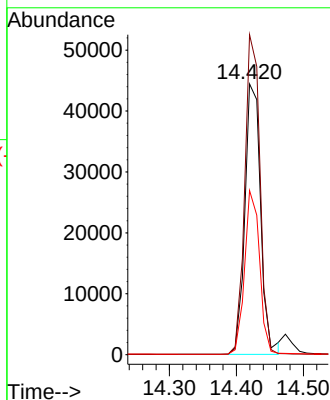
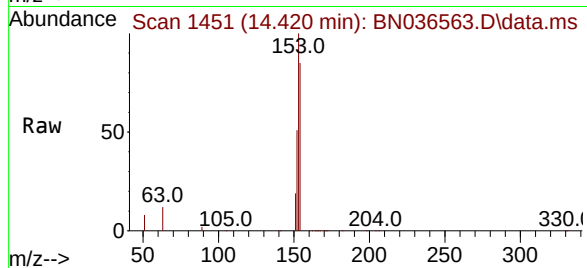




#17
Acenaphthene
Concen: 5.028 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

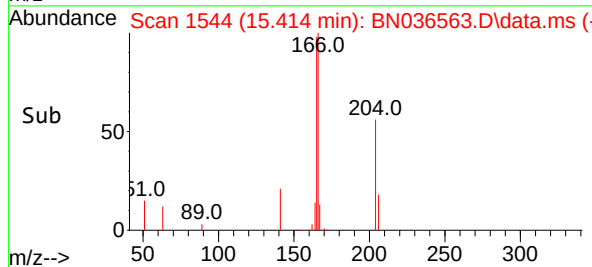
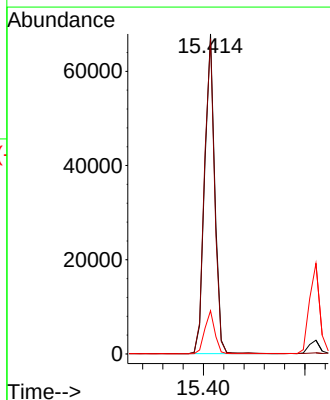
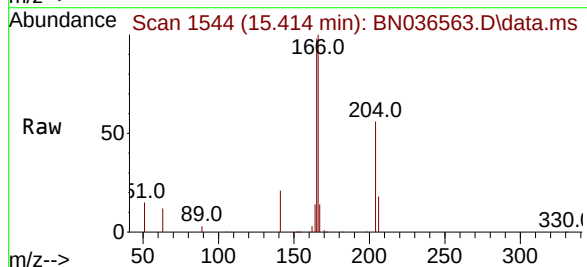
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

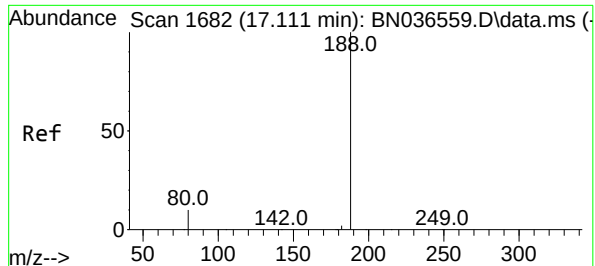
Tgt Ion:154 Resp: 72446
Ion Ratio Lower Upper
154 100
153 114.1 94.1 141.1
152 57.7 49.8 74.6



#18
Fluorene
Concen: 4.937 ng
RT: 15.414 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:166 Resp: 96215
Ion Ratio Lower Upper
166 100
165 96.5 79.8 119.8
167 13.0 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

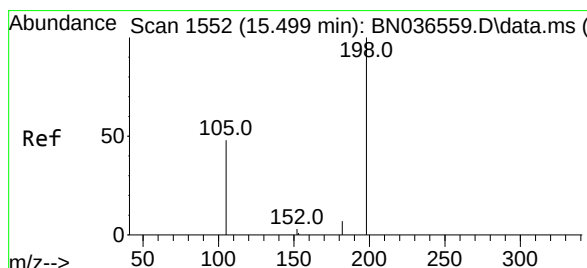
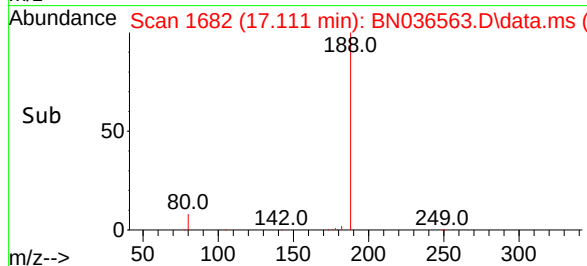
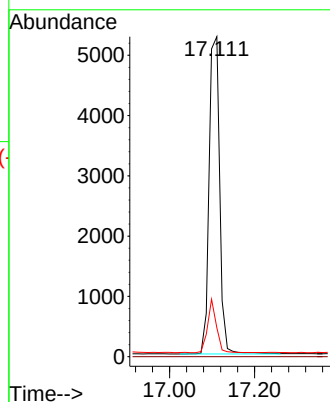
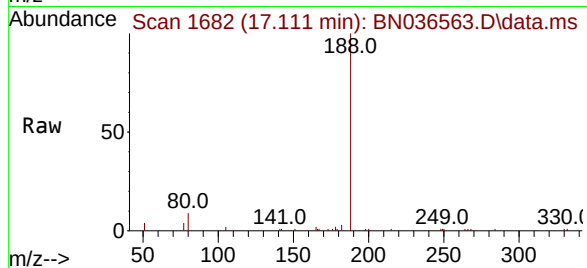
Tgt Ion:188 Resp: 9061

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.1 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 4.968 ng

RT: 15.489 min Scan# 1551

Delta R.T. -0.010 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

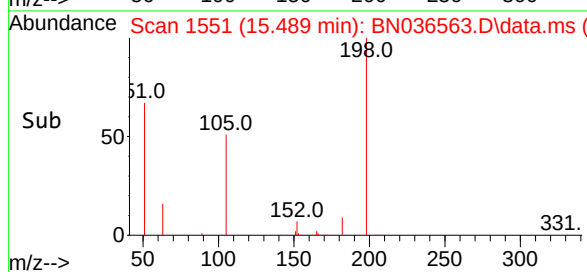
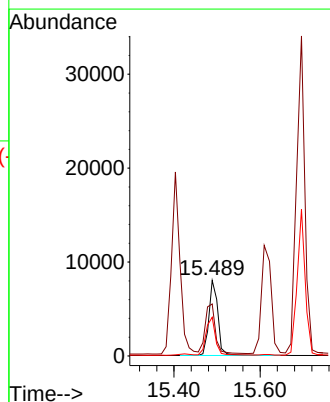
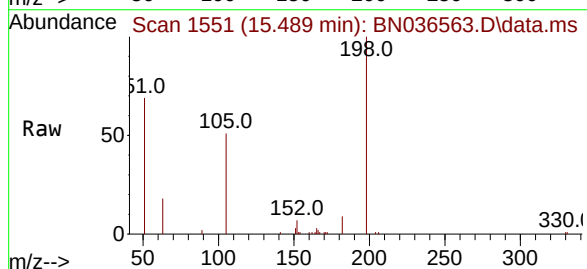
Tgt Ion:198 Resp: 12627

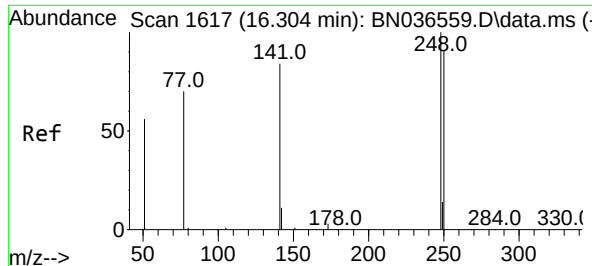
Ion Ratio Lower Upper

198 100

51 68.9 107.9 161.9#

105 51.3 56.2 84.2#

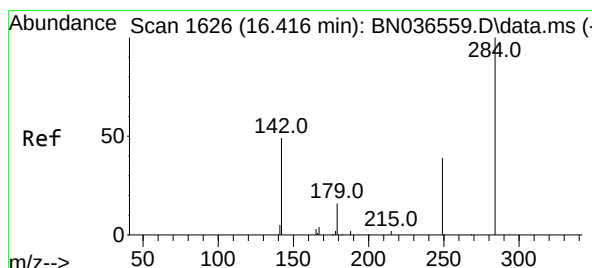
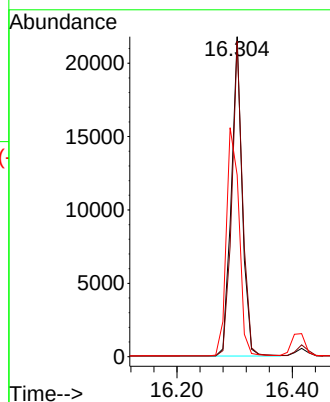
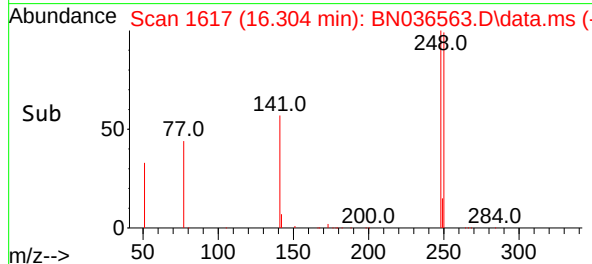
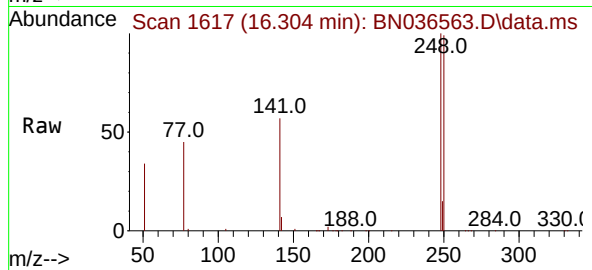




#21
4-Bromophenyl-phenylether
Concen: 5.048 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

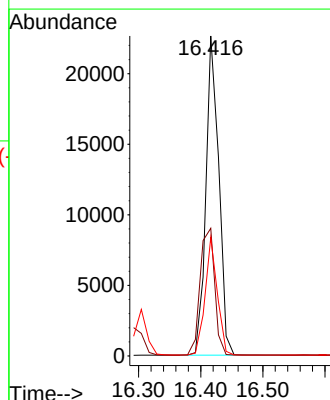
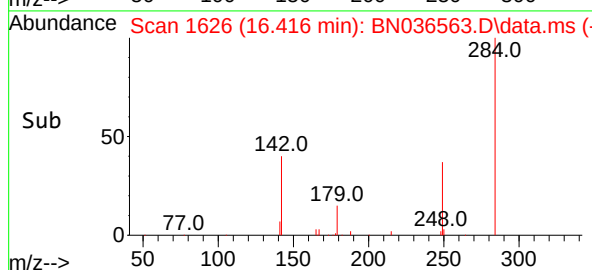
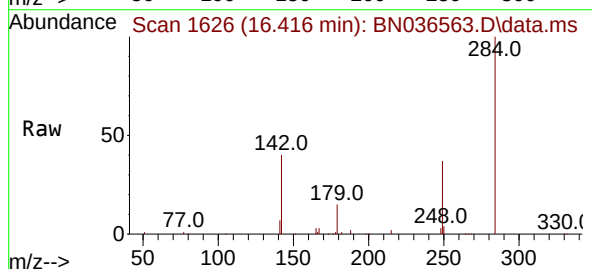
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

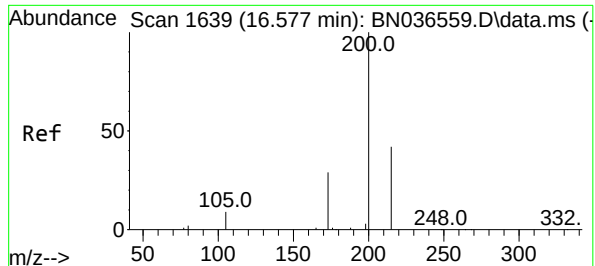
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.6	73.0	109.6
141	56.7	68.6	103.0#



#22
Hexachlorobenzene
Concen: 4.770 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion	Ratio	Lower	Upper
284	100		
142	45.1	37.0	55.4
249	35.1	28.1	42.1

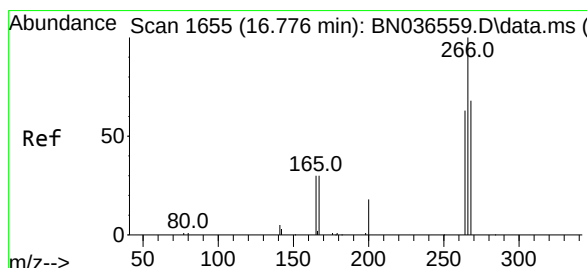
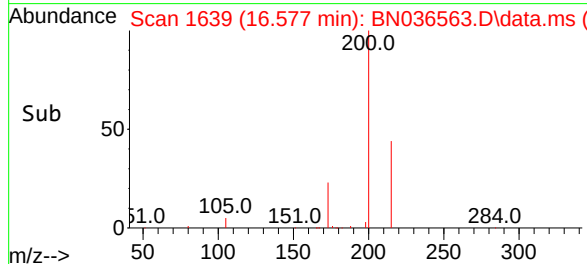
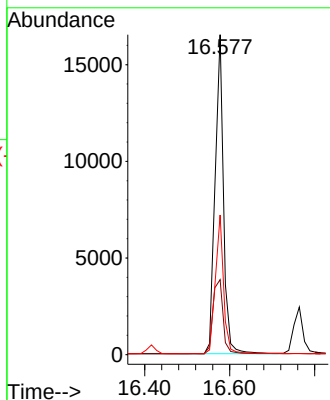
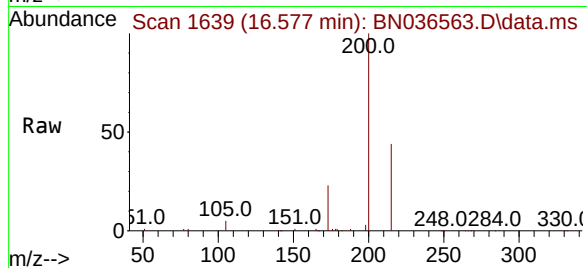




#23
Atrazine
Concen: 4.988 ng
RT: 16.577 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

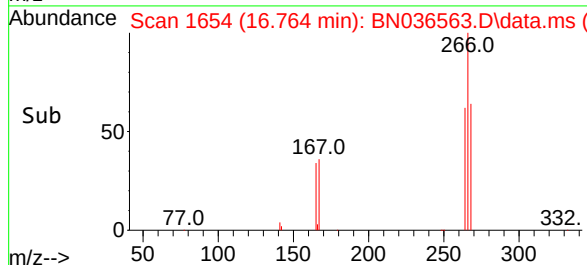
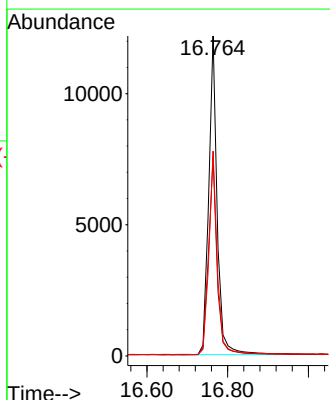
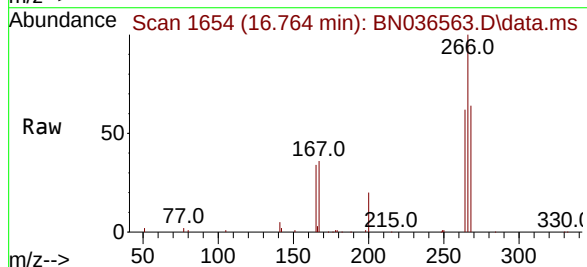
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

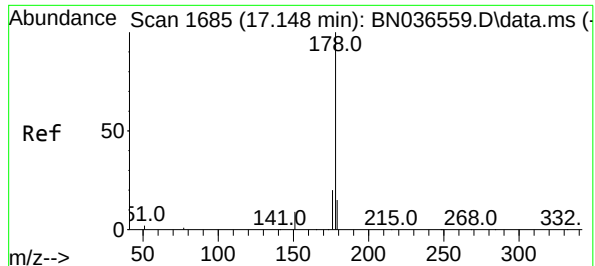
Tgt Ion	Ratio	Lower	Upper
200	100		
173	23.4	27.3	40.9
215	43.7	36.8	55.2



#24
Pentachlorophenol
Concen: 5.634 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.1	49.6	74.4
268	63.7	50.9	76.3





#25

Phenanthrene

Concen: 4.979 ng

RT: 17.148 min Scan# 1685

Delta R.T. 0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

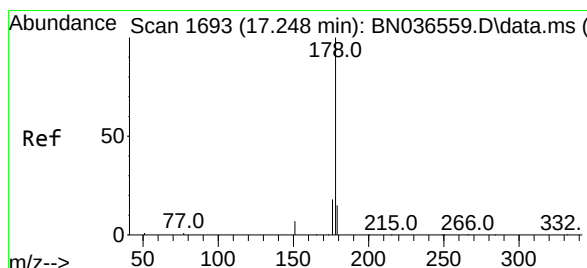
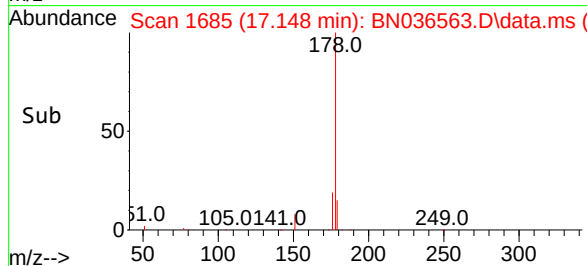
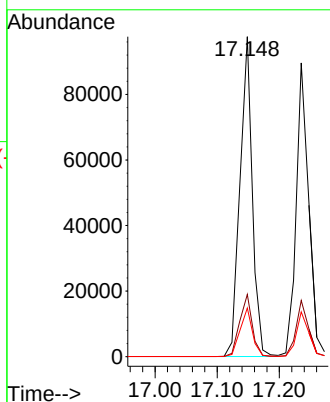
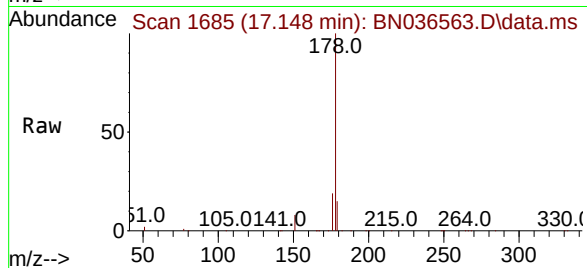
Tgt Ion:178 Resp: 135347

Ion Ratio Lower Upper

178 100

176 19.7 15.9 23.9

179 15.2 12.2 18.4



#26

Anthracene

Concen: 5.135 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.012 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

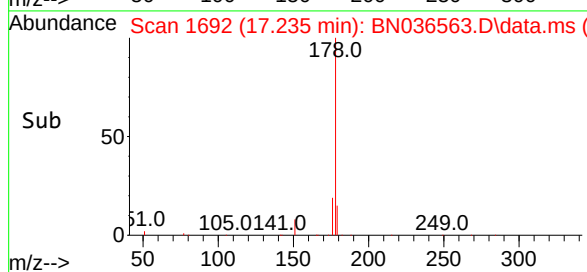
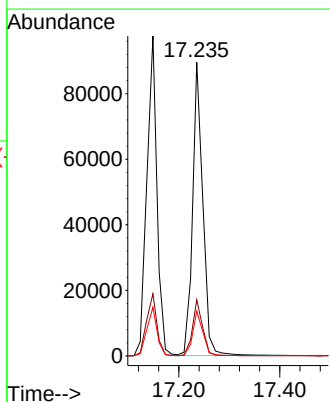
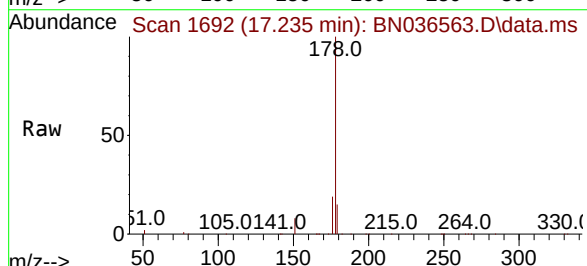
Tgt Ion:178 Resp: 125954

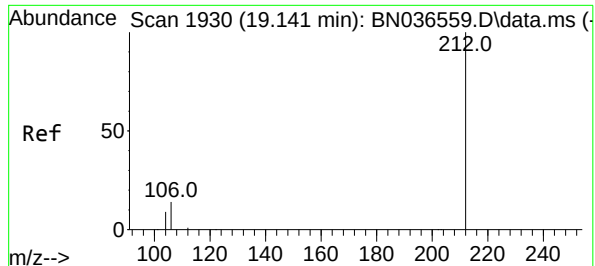
Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.2

179 15.2 12.6 18.8





#27

Fluoranthene-d10

Concen: 4.879 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

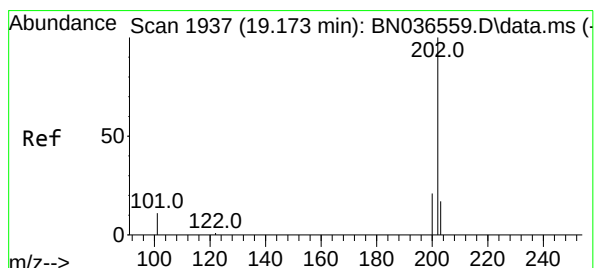
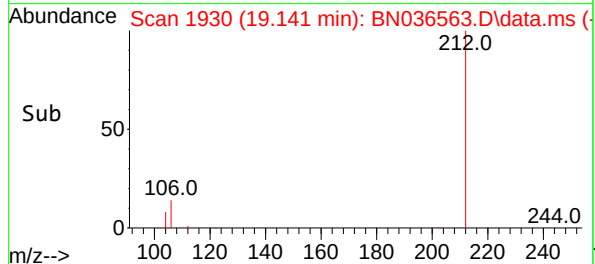
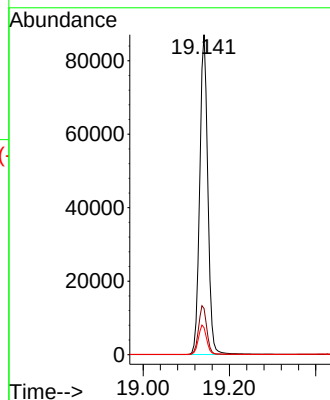
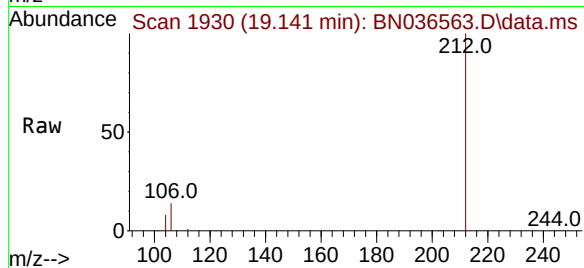
Tgt Ion:212 Resp: 113317

Ion Ratio Lower Upper

212 100

106 15.5 11.8 17.6

104 9.2 7.3 10.9



#28

Fluoranthene

Concen: 4.883 ng

RT: 19.169 min Scan# 1936

Delta R.T. -0.005 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

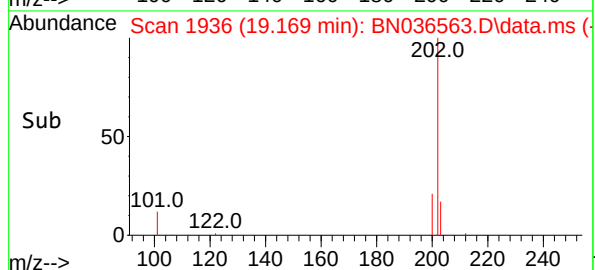
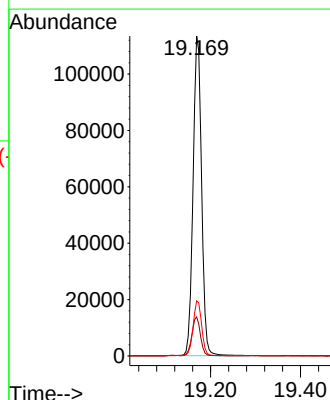
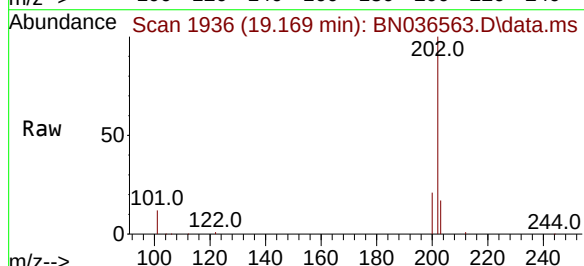
Tgt Ion:202 Resp: 149107

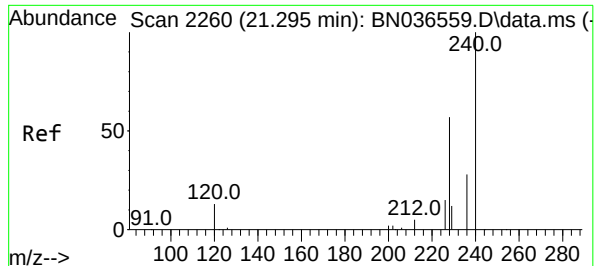
Ion Ratio Lower Upper

202 100

101 12.3 9.4 14.0

203 17.3 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

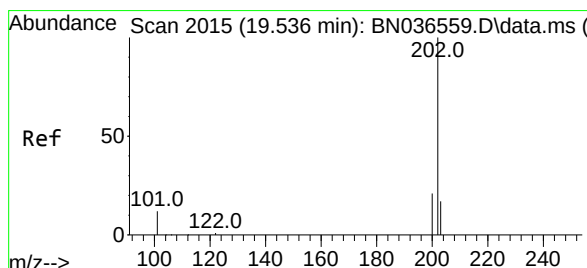
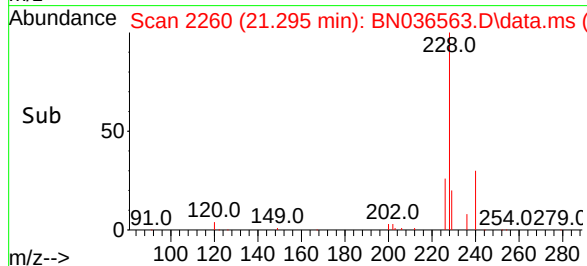
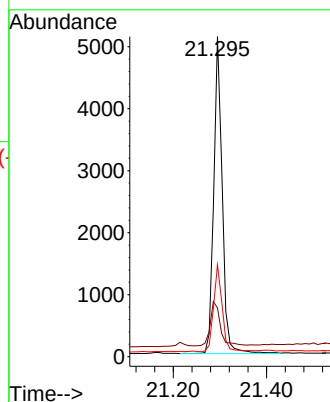
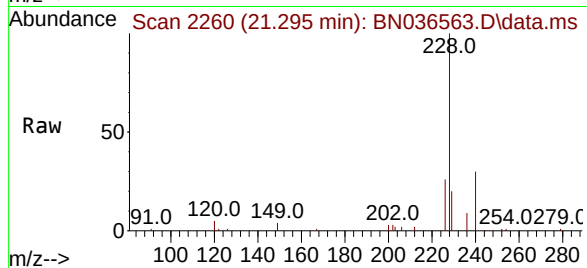
Tgt Ion:240 Resp: 6472

Ion Ratio Lower Upper

240 100

120 15.2 14.6 22.0

236 28.7 24.1 36.1



#30

Pyrene

Concen: 4.695 ng

RT: 19.536 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

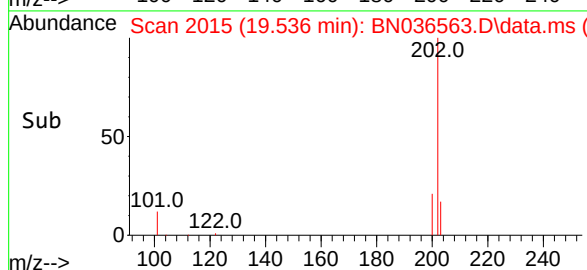
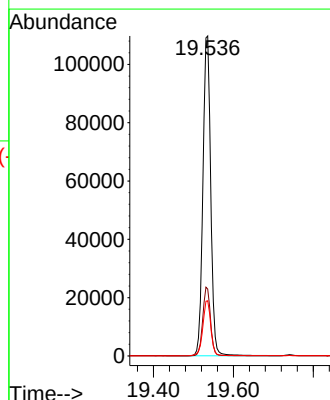
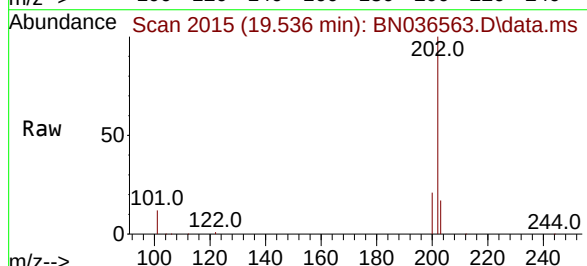
Tgt Ion:202 Resp: 148584

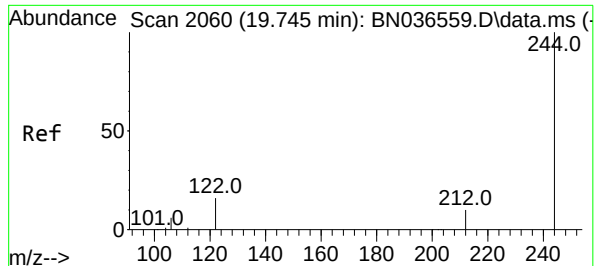
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.7 14.1 21.1





#31

Terphenyl-d14

Concen: 4.832 ng

RT: 19.740 min Scan# 2060

Delta R.T. -0.005 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

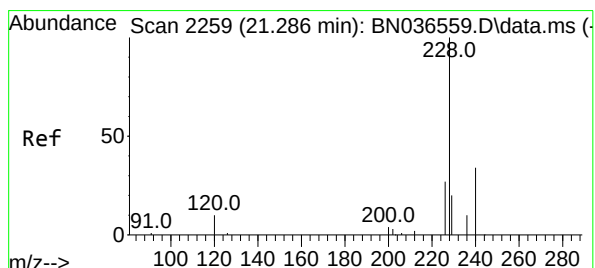
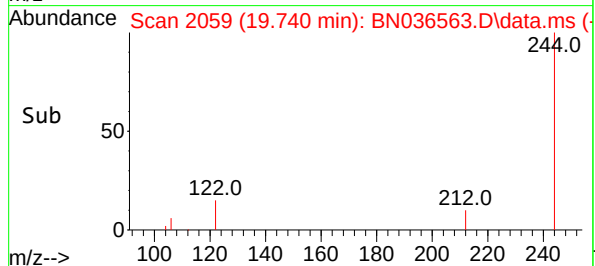
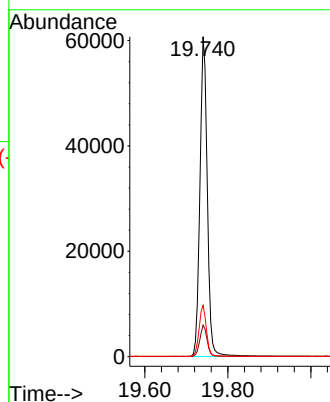
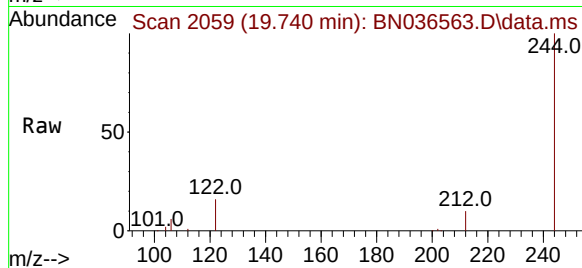
Tgt Ion:244 Resp: 74923

Ion Ratio Lower Upper

244 100

212 9.9 9.6 14.4

122 16.1 13.9 20.9



#32

Benzo(a)anthracene

Concen: 5.087 ng

RT: 21.277 min Scan# 2258

Delta R.T. -0.009 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

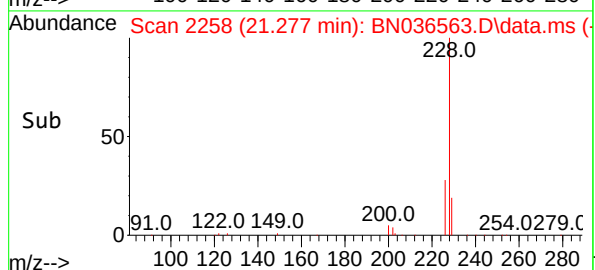
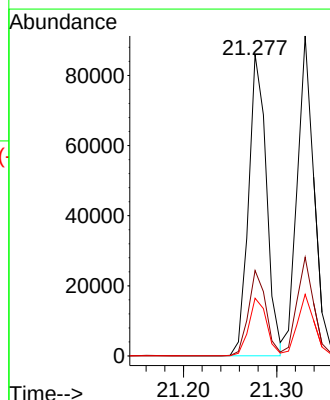
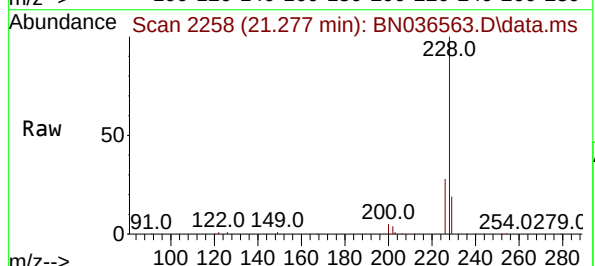
Tgt Ion:228 Resp: 114481

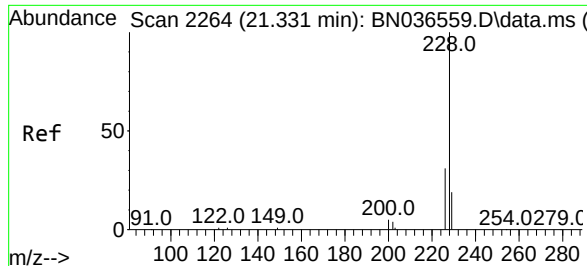
Ion Ratio Lower Upper

228 100

226 28.3 22.5 33.7

229 19.2 16.6 25.0





#33

Chrysene

Concen: 4.764 ng

RT: 21.331 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

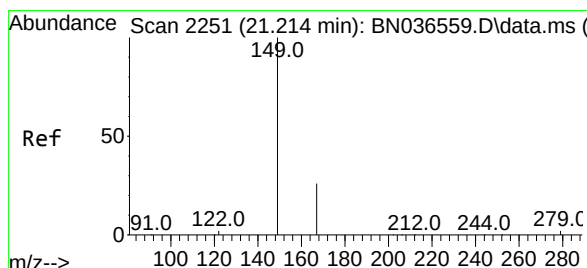
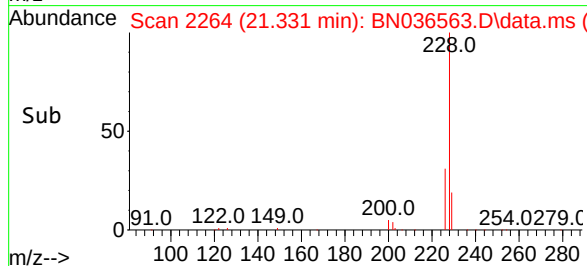
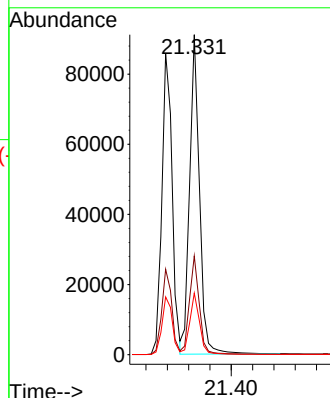
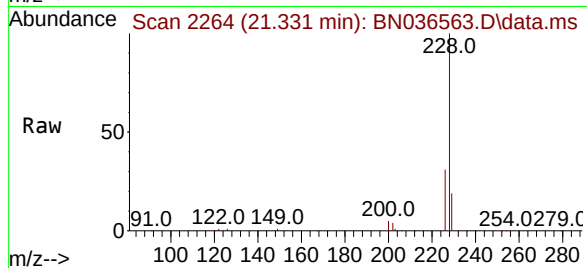
Tgt Ion:228 Resp: 117149

Ion Ratio Lower Upper

228 100

226 30.9 25.3 37.9

229 19.3 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 4.390 ng

RT: 21.214 min Scan# 2251

Delta R.T. -0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

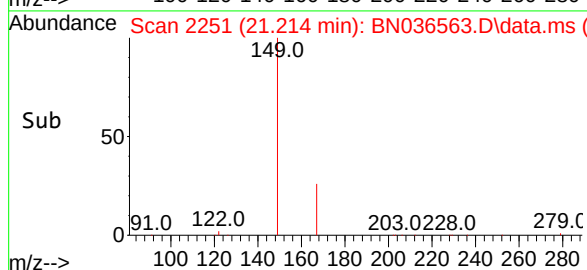
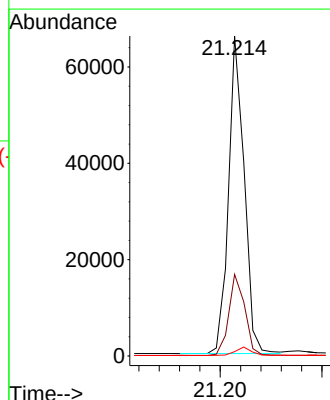
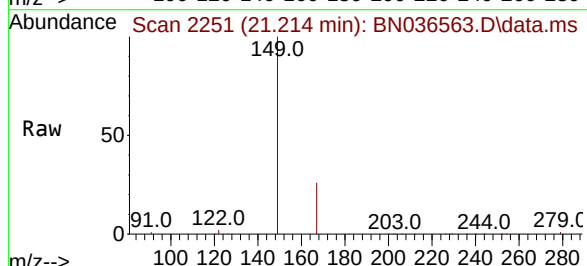
Tgt Ion:149 Resp: 70345

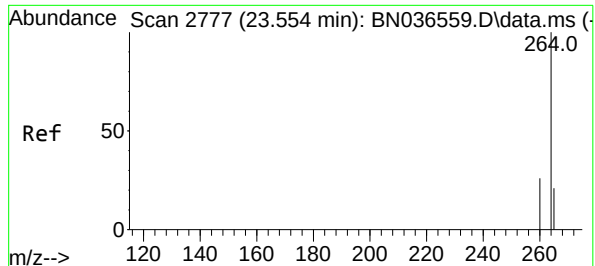
Ion Ratio Lower Upper

149 100

167 26.2 20.7 31.1

279 2.6 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.551 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

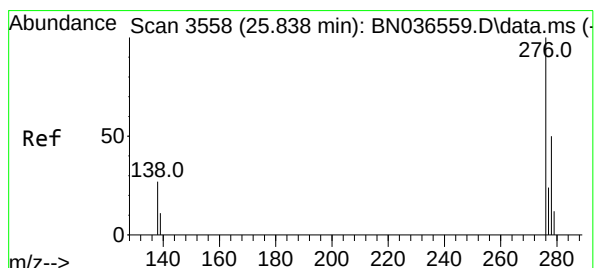
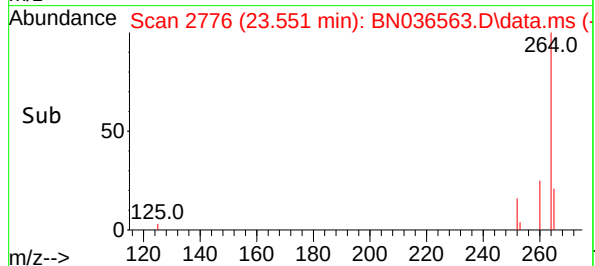
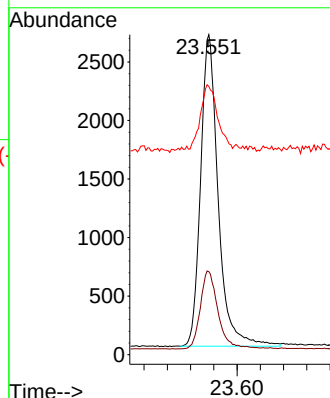
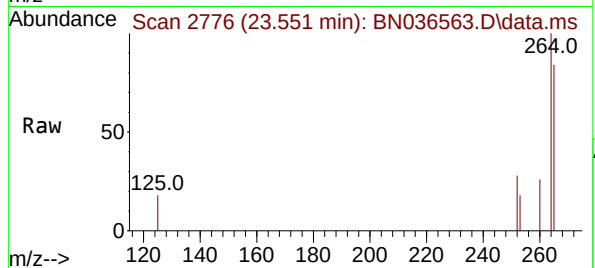
Tgt Ion:264 Resp: 5580

Ion Ratio Lower Upper

264 100

260 25.9 22.6 33.8

265 83.8 88.1 132.1#



#36

Indeno(1,2,3-cd)pyrene

Concen: 5.440 ng

RT: 25.835 min Scan# 3557

Delta R.T. -0.003 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

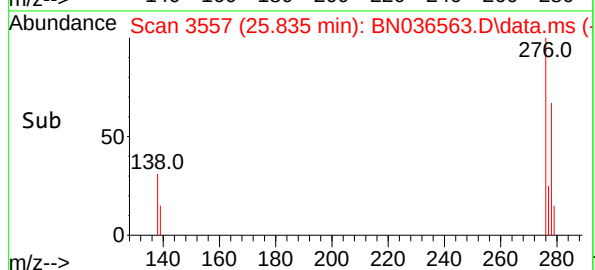
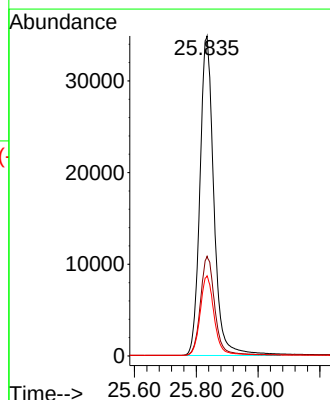
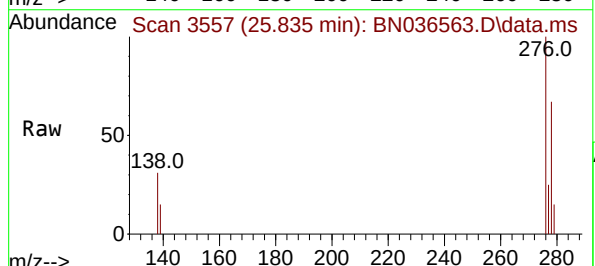
Tgt Ion:276 Resp: 109561

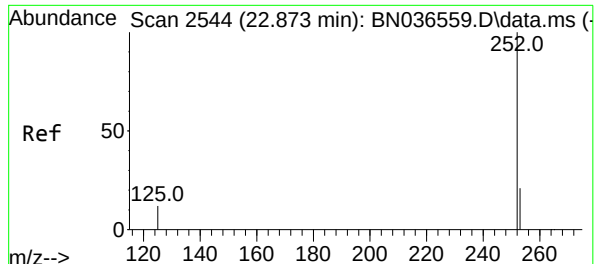
Ion Ratio Lower Upper

276 100

138 31.6 23.4 35.2

277 24.9 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 5.146 ng

RT: 22.873 min Scan# 2544

Delta R.T. -0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

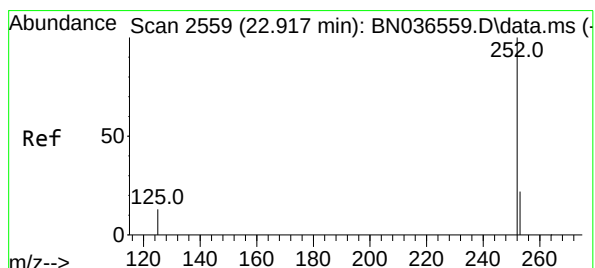
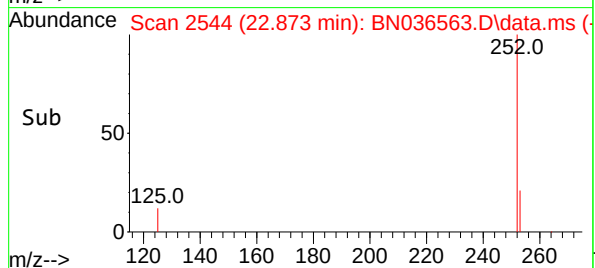
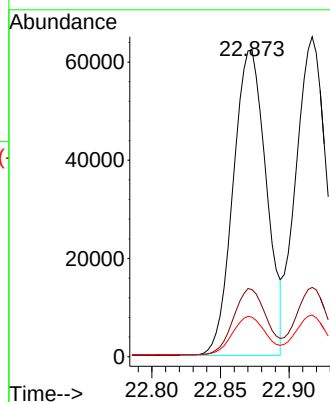
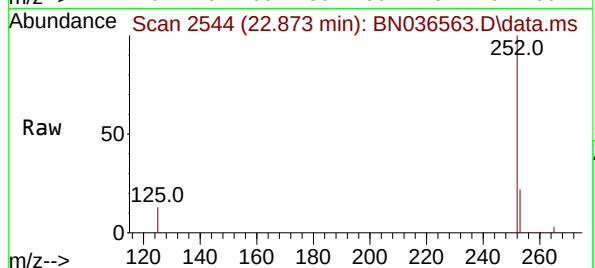
Tgt Ion:252 Resp: 104498

Ion Ratio Lower Upper

252 100

253 21.9 23.9 35.9#

125 12.9 17.4 26.2#



#38

Benzo(k)fluoranthene

Concen: 5.022 ng

RT: 22.917 min Scan# 2559

Delta R.T. 0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

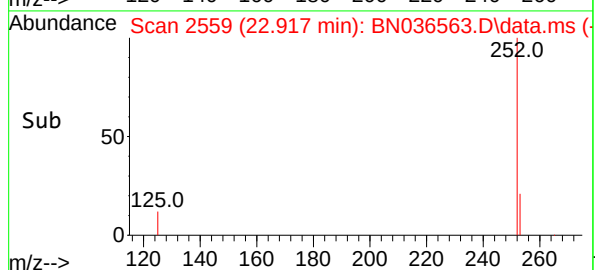
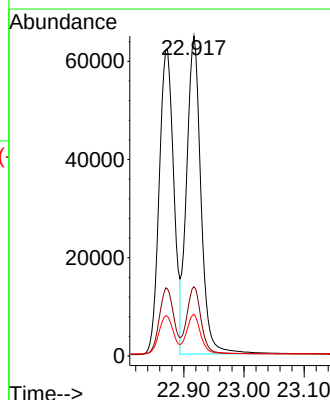
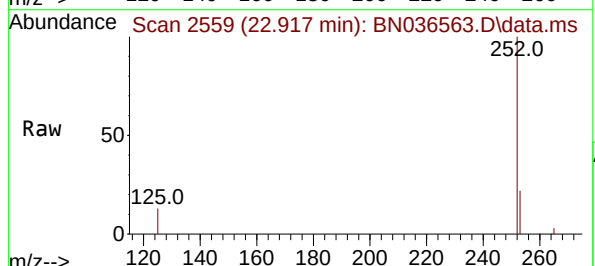
Tgt Ion:252 Resp: 106995

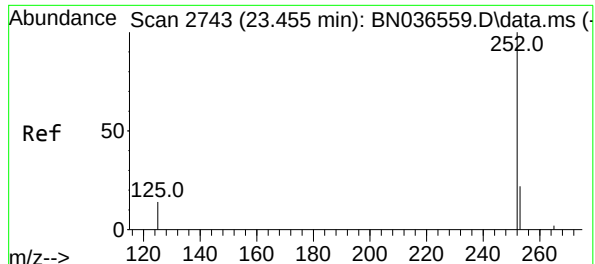
Ion Ratio Lower Upper

252 100

253 21.6 24.6 36.8#

125 13.0 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 5.170 ng

RT: 23.452 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

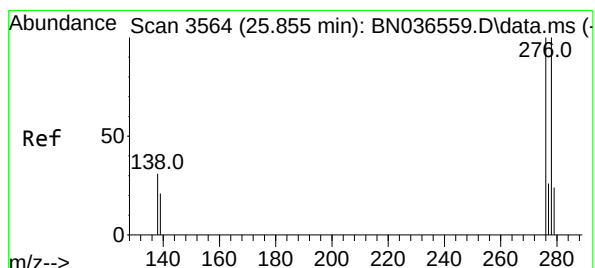
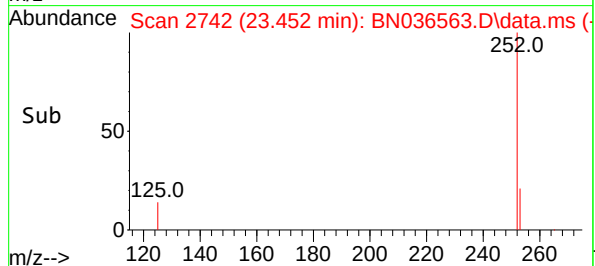
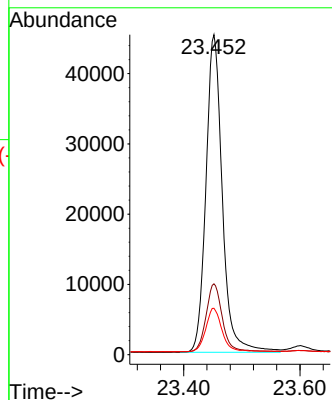
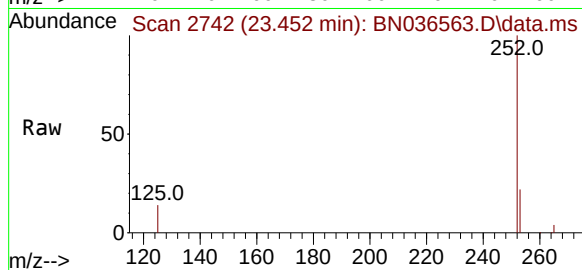
Tgt Ion:252 Resp: 88413

Ion Ratio Lower Upper

252 100

253 22.2 27.8 41.8#

125 14.5 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 5.568 ng

RT: 25.846 min Scan# 3561

Delta R.T. -0.009 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

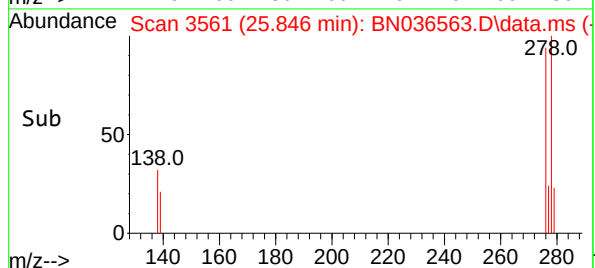
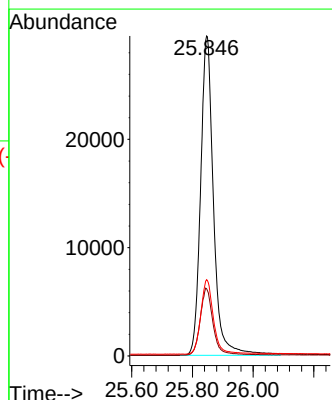
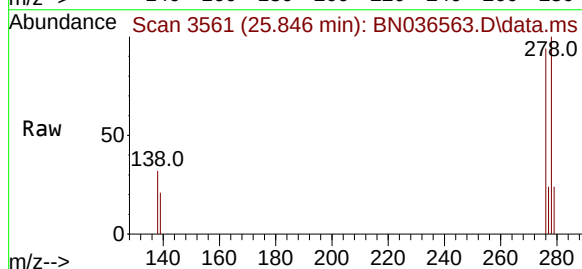
Tgt Ion:278 Resp: 87308

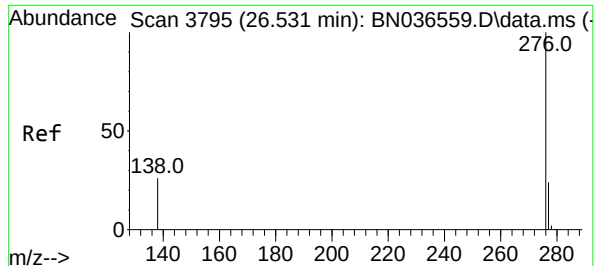
Ion Ratio Lower Upper

278 100

139 21.0 20.8 31.2

279 23.9 28.8 43.2#





#41

Benzo(g,h,i)perylene

Concen: 5.189 ng

RT: 26.531 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN036563.D

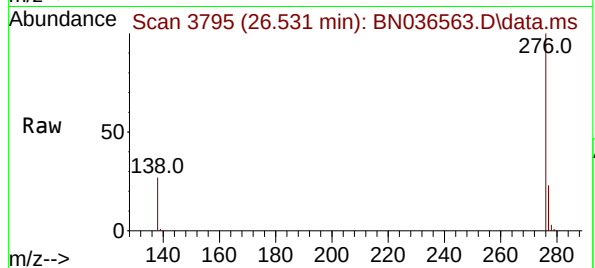
Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



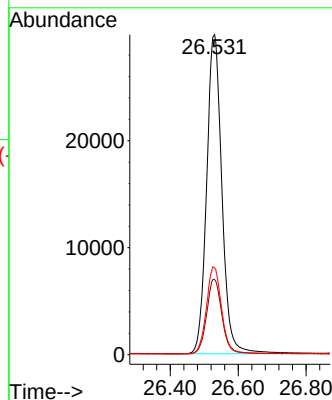
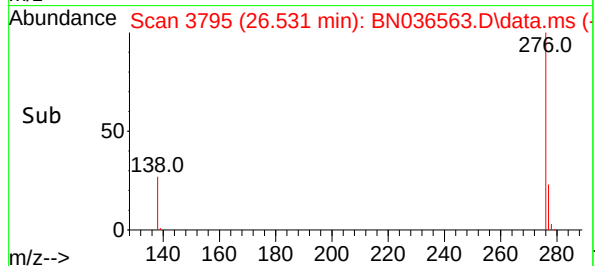
Tgt Ion:276 Resp: 93067

Ion Ratio Lower Upper

276 100

277 23.4 22.2 33.4

138 27.1 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036564.D
 Acq On : 10 Mar 2025 16:38
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN031025

Quant Time: Mar 10 17:10:04 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

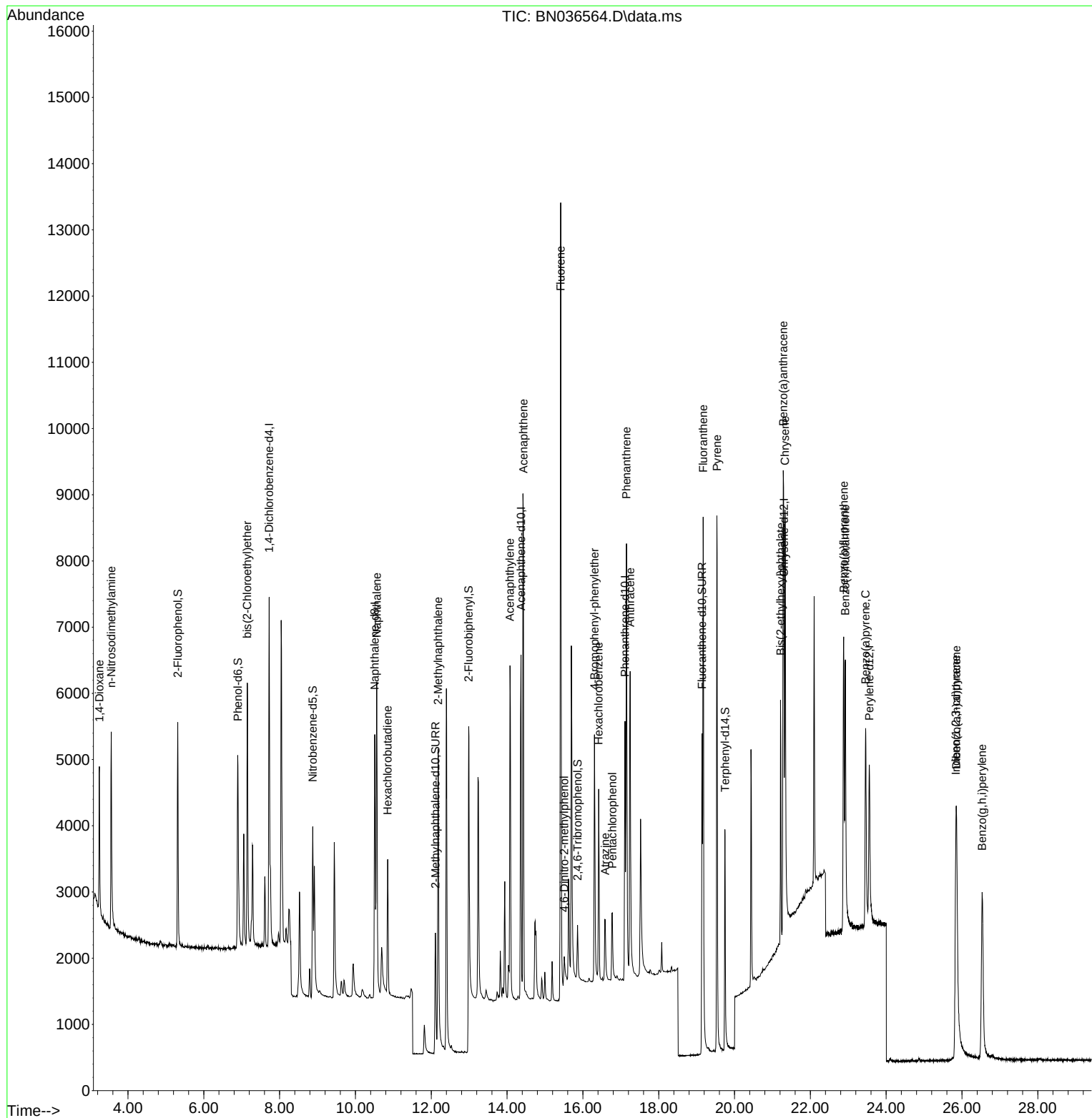
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2488	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5634	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3085	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5778	0.400	ng	0.00
29) Chrysene-d12	21.304	240	4219	0.400	ng	0.00
35) Perylene-d12	23.554	264	3835	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	2418	0.417	ng	0.00
5) Phenol-d6	6.901	99	2744	0.383	ng	0.00
8) Nitrobenzene-d5	8.875	82	2356	0.384	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	3345	0.399	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	511	0.365	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	7753	0.432	ng	0.00
27) Fluoranthene-d10	19.141	212	6152	0.415	ng	0.00
31) Terphenyl-d14	19.750	244	3880	0.384	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.247	88	1297	0.470	ng	97
3) n-Nitrosodimethylamine	3.557	42	2284	0.409	ng	96
6) bis(2-Chloroethyl)ether	7.147	93	2945	0.398	ng	100
9) Naphthalene	10.562	128	6710	0.405	ng	99
10) Hexachlorobutadiene	10.850	225	1694	0.434	ng	# 98
12) 2-Methylnaphthalene	12.182	142	4064	0.385	ng	99
16) Acenaphthylene	14.077	152	6059	0.416	ng	99
17) Acenaphthene	14.430	154	4035	0.423	ng	99
18) Fluorene	15.414	166	5226	0.405	ng	99
20) 4,6-Dinitro-2-methylph...	15.510	198	404	0.420	ng	94
21) 4-Bromophenyl-phenylether	16.304	248	1524	0.421	ng	96
22) Hexachlorobenzene	16.416	284	1987	0.455	ng	99
23) Atrazine	16.590	200	1165	0.401	ng	95
24) Pentachlorophenol	16.776	266	699	0.351	ng	95
25) Phenanthrene	17.148	178	7229	0.417	ng	99
26) Anthracene	17.248	178	6358	0.407	ng	99
28) Fluoranthene	19.174	202	8068	0.414	ng	100
30) Pyrene	19.536	202	8156	0.395	ng	100
32) Benzo(a)anthracene	21.286	228	5814	0.396	ng	100
33) Chrysene	21.331	228	6940	0.433	ng	98
34) Bis(2-ethylhexyl)phtha...	21.214	149	3594	0.344	ng	98
36) Indeno(1,2,3-cd)pyrene	25.841	276	6410	0.463	ng	98
37) Benzo(b)fluoranthene	22.879	252	5902	0.423	ng	99
38) Benzo(k)fluoranthene	22.923	252	6286	0.429	ng	98
39) Benzo(a)pyrene	23.458	252	5147	0.438	ng	99
40) Dibenzo(a,h)anthracene	25.855	278	4740	0.440	ng	97
41) Benzo(g,h,i)perylene	26.534	276	5877	0.477	ng	97

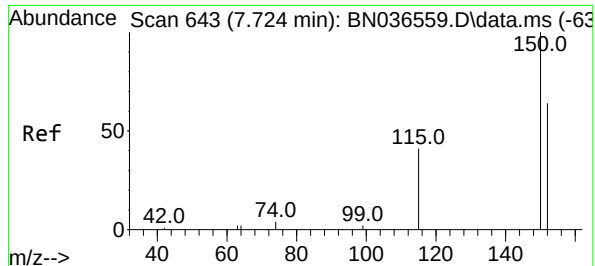
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036564.D
Acq On : 10 Mar 2025 16:38
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Quant Time: Mar 10 17:10:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

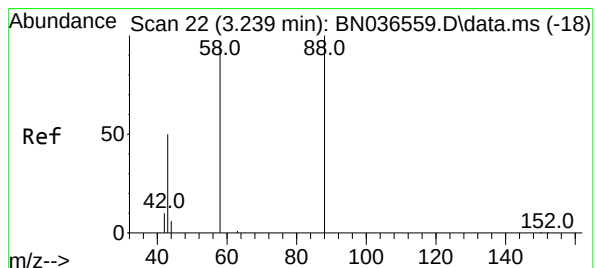
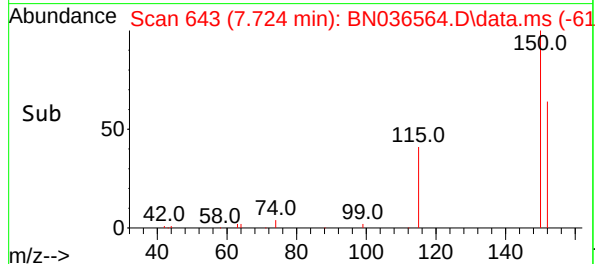
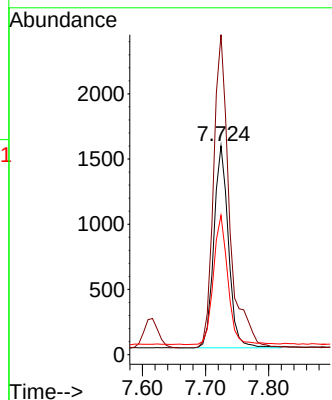
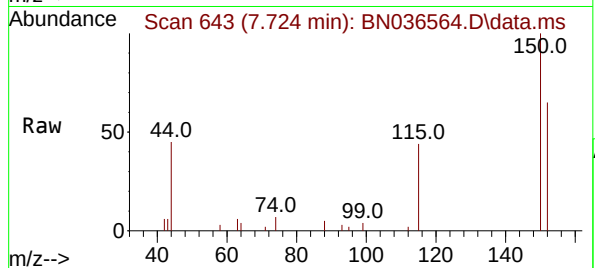




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

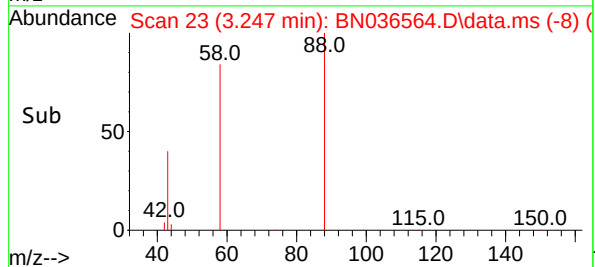
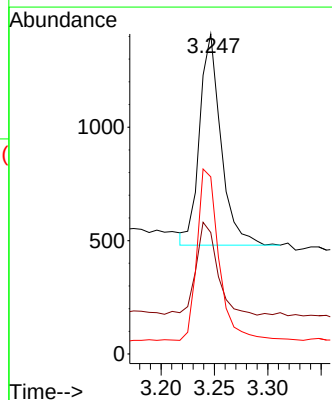
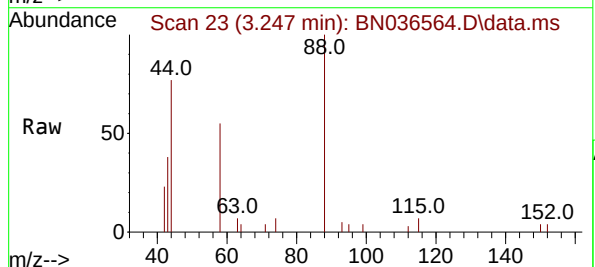
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

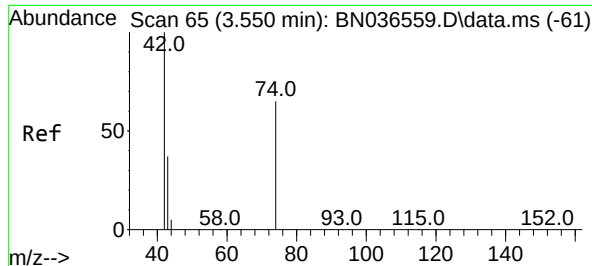
Tgt Ion:152 Resp: 2488
Ion Ratio Lower Upper
152 100
150 153.3 123.7 185.5
115 66.7 54.3 81.5



#2
1,4-Dioxane
Concen: 0.470 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.008 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion: 88 Resp: 1297
Ion Ratio Lower Upper
88 100
43 44.1 37.8 56.8
58 82.4 67.4 101.2

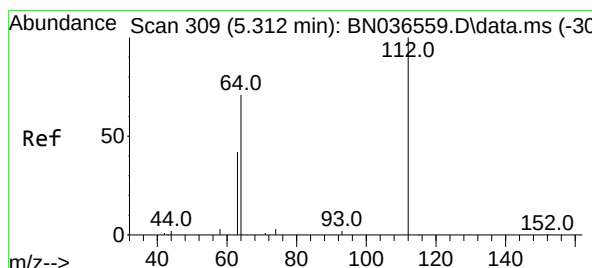
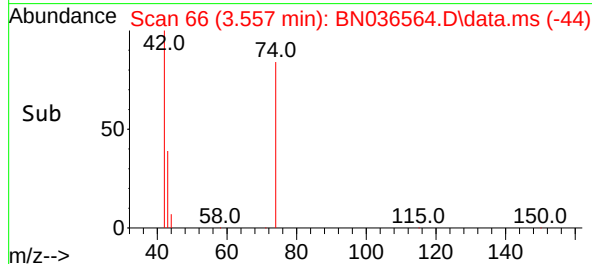
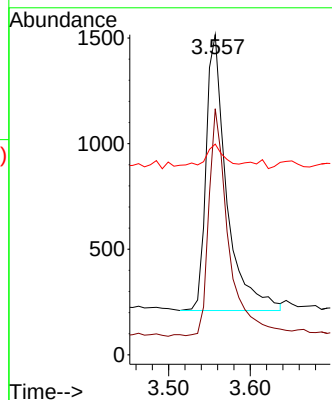
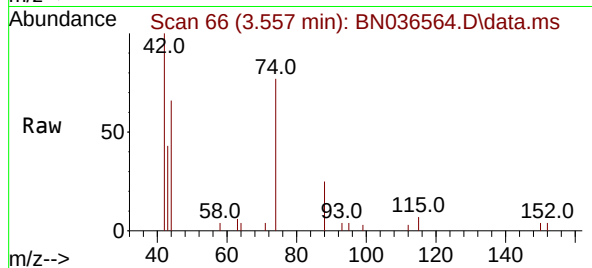




#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.557 min Scan# 60
Delta R.T. 0.007 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

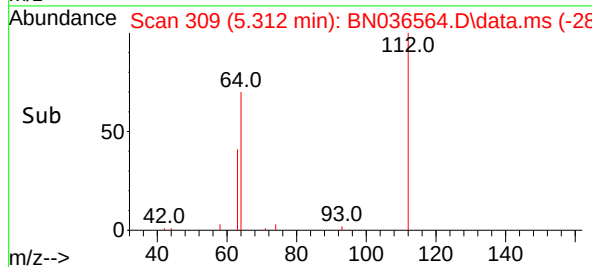
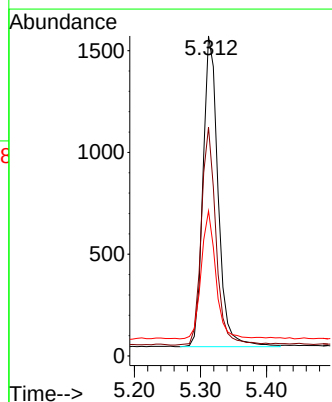
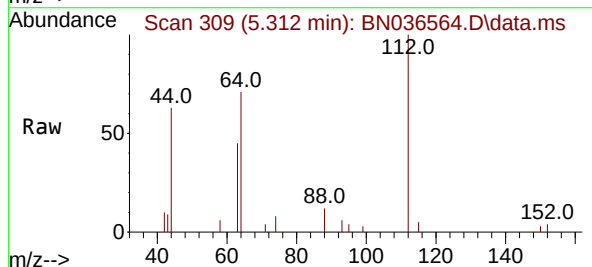
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

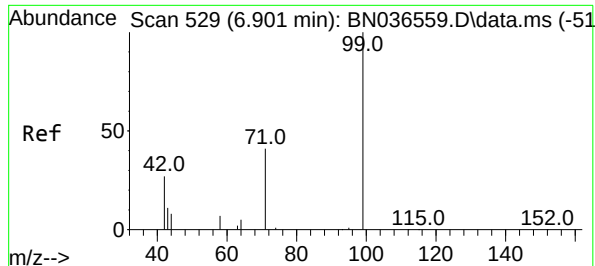
Tgt Ion: 42 Resp: 2284
Ion Ratio Lower Upper
42 100
74 79.2 60.6 90.8
44 8.2 6.3 9.5



#4
2-Fluorophenol
Concen: 0.417 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion: 112 Resp: 2418
Ion Ratio Lower Upper
112 100
64 68.2 53.1 79.7
63 39.8 31.8 47.8

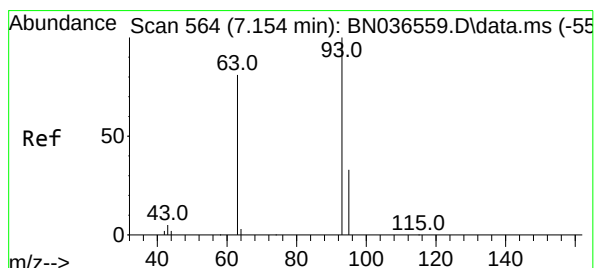
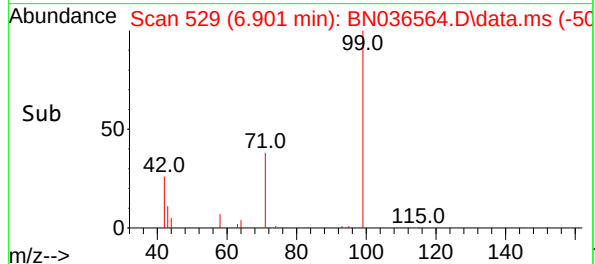
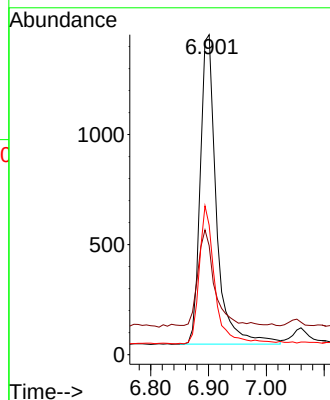
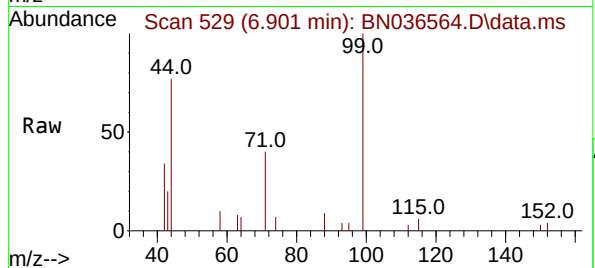




#5
Phenol-d6
Concen: 0.383 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

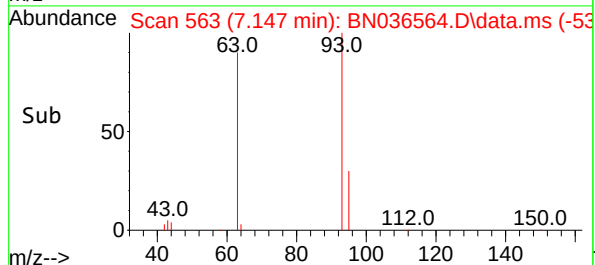
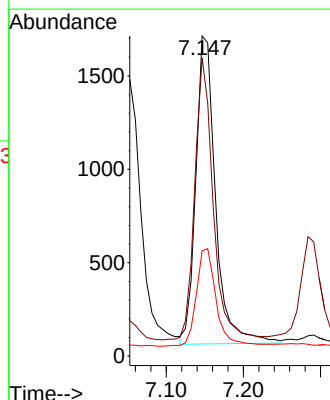
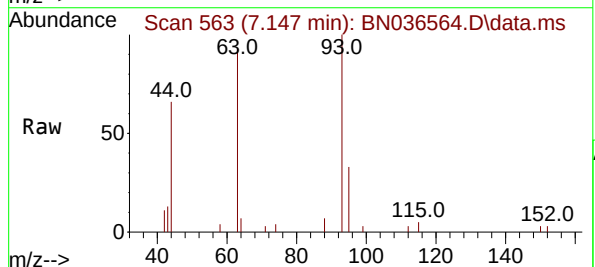
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

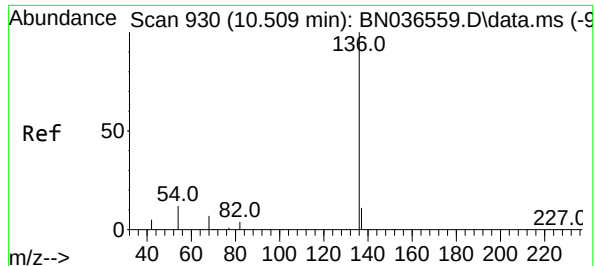
Tgt Ion: 99 Resp: 2744
Ion Ratio Lower Upper
99 100
42 32.1 26.5 39.7
71 42.9 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.398 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion: 93 Resp: 2945
Ion Ratio Lower Upper
93 100
63 85.1 67.7 101.5
95 31.7 25.6 38.4

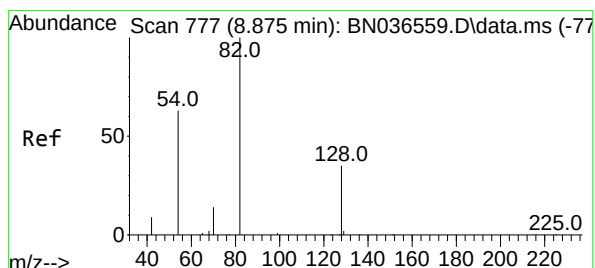
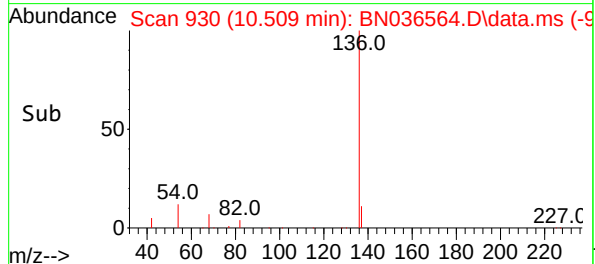
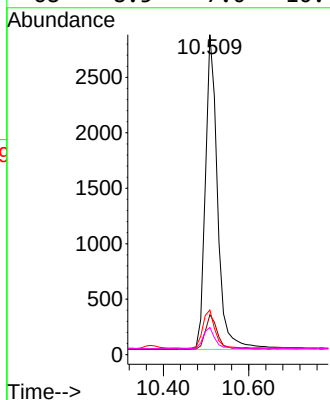
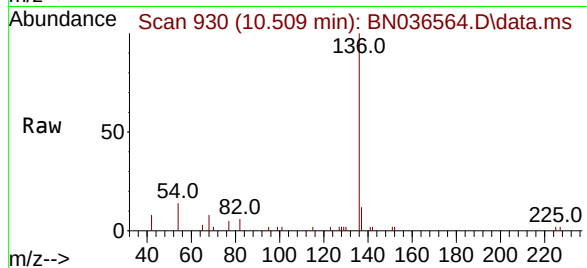




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

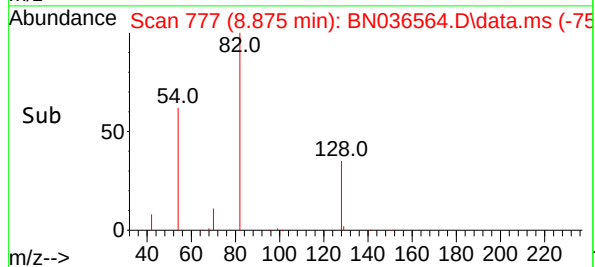
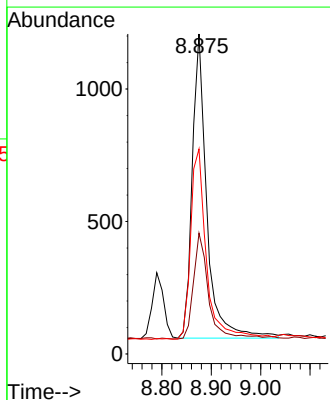
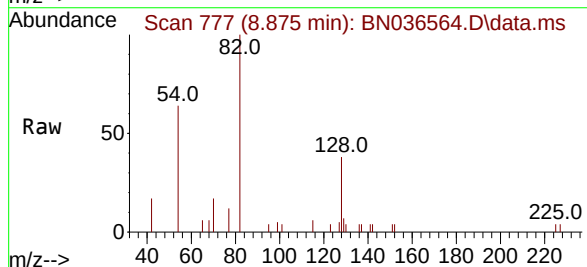
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

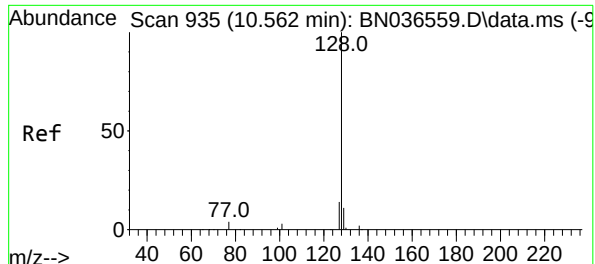
Tgt Ion:	136	Resp:	5634
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.3	15.5
54	13.9	11.5	17.3
68	8.5	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.384 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:	82	Resp:	2356
Ion	Ratio	Lower	Upper
82	100		
128	37.7	30.6	45.8
54	64.1	52.2	78.4





#9

Naphthalene

Concen: 0.405 ng

RT: 10.562 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

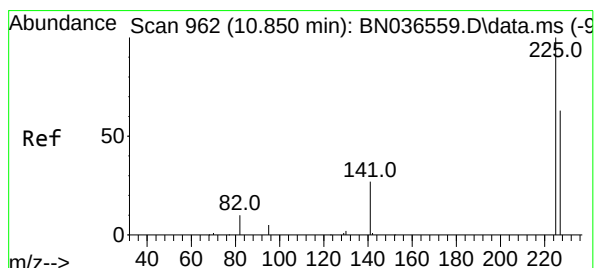
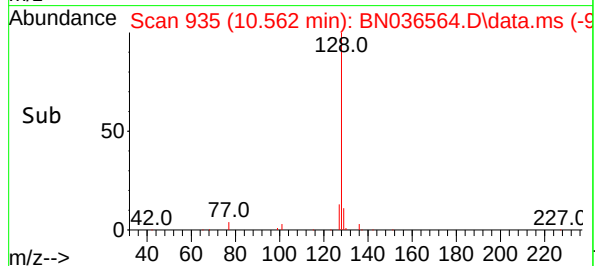
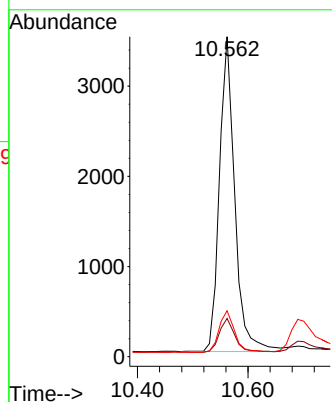
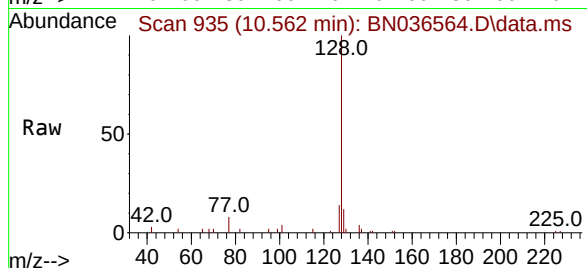
Tgt Ion:128 Resp: 6710

Ion Ratio Lower Upper

128 100

129 11.9 9.8 14.6

127 14.3 11.8 17.8



#10

Hexachlorobutadiene

Concen: 0.434 ng

RT: 10.850 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

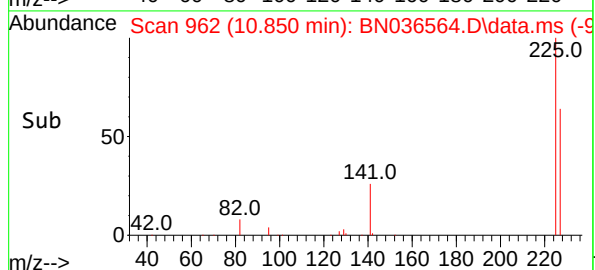
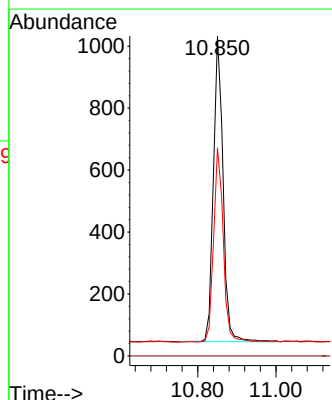
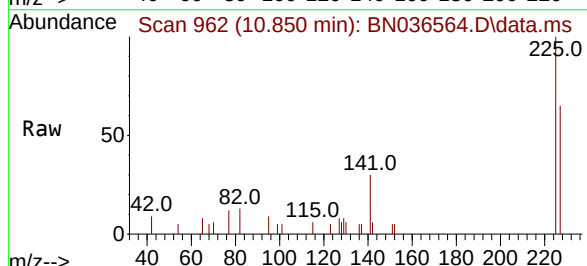
Tgt Ion:225 Resp: 1694

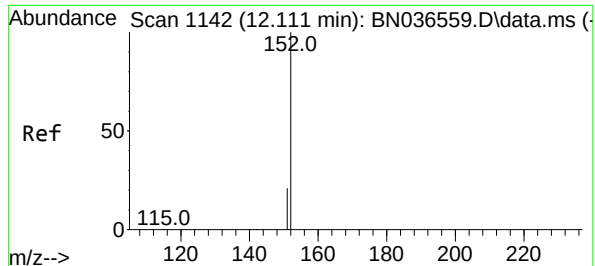
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.5 51.8 77.8

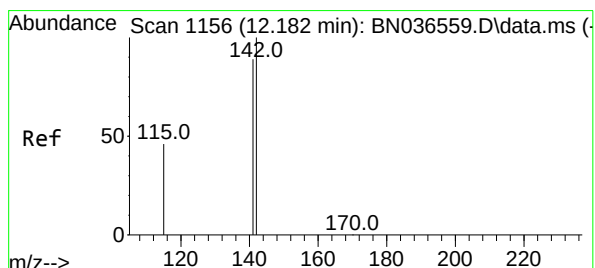
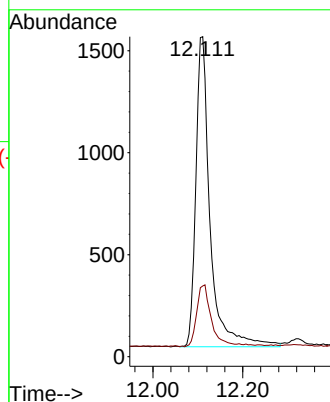
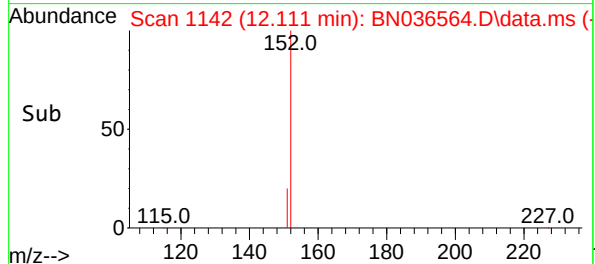
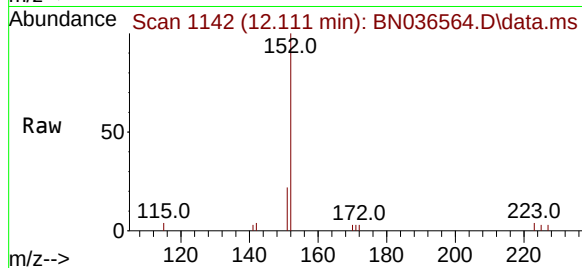




#11
2-Methylnaphthalene-d10
Concen: 0.399 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

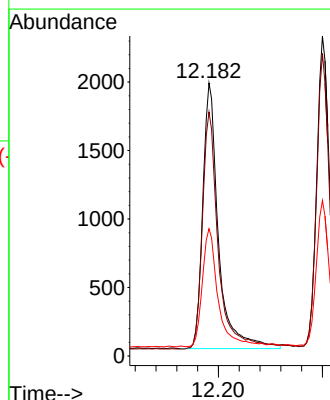
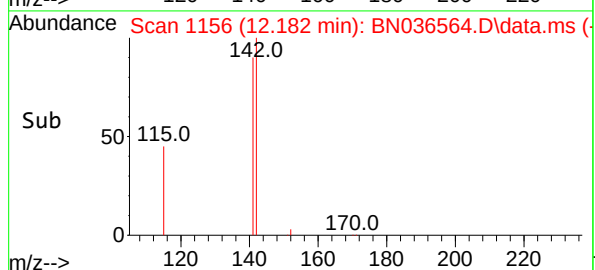
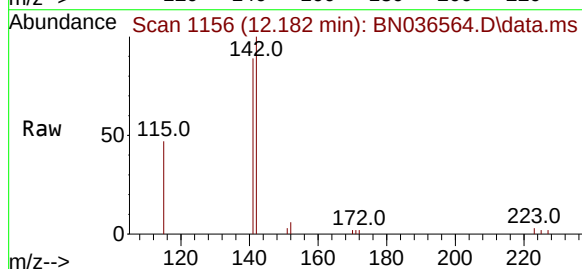
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

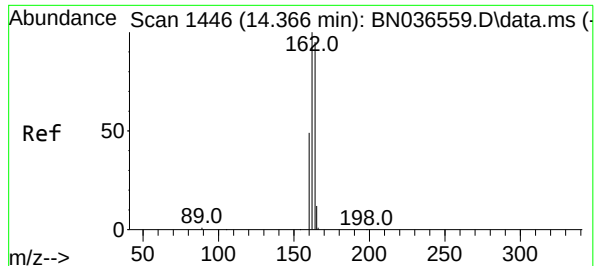
Tgt Ion:152 Resp: 3345
Ion Ratio Lower Upper
152 100
151 20.2 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.385 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:142 Resp: 4064
Ion Ratio Lower Upper
142 100
141 89.4 71.7 107.5
115 46.6 38.3 57.5

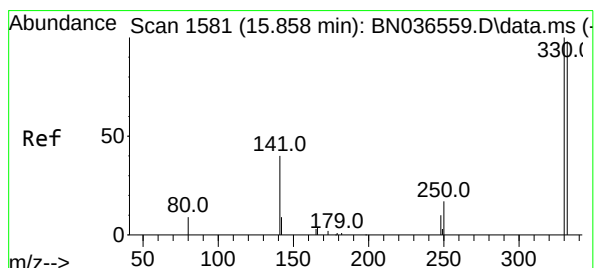
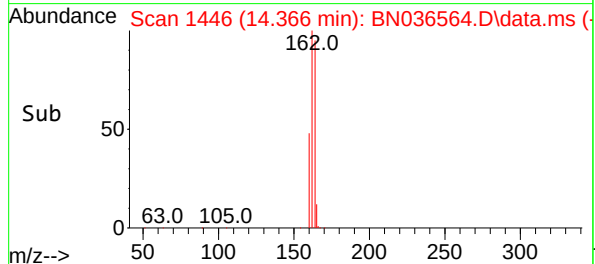
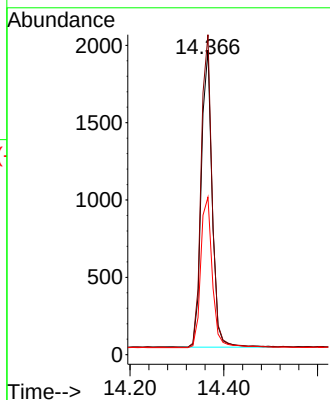
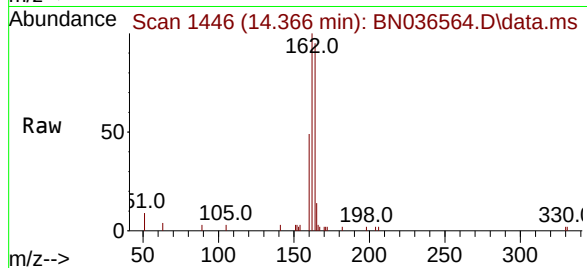




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

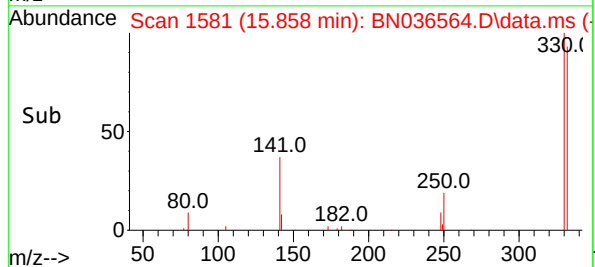
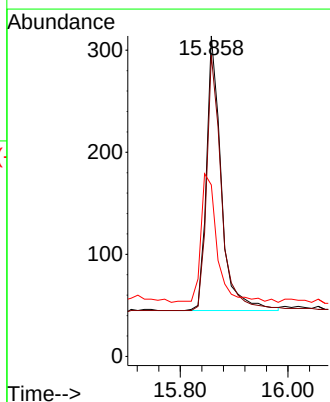
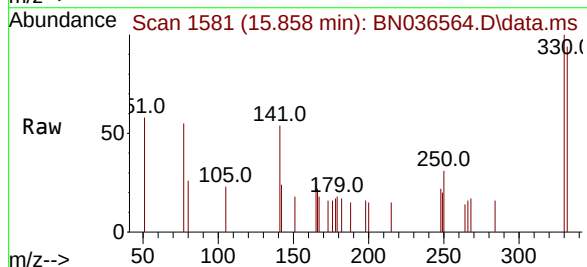
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

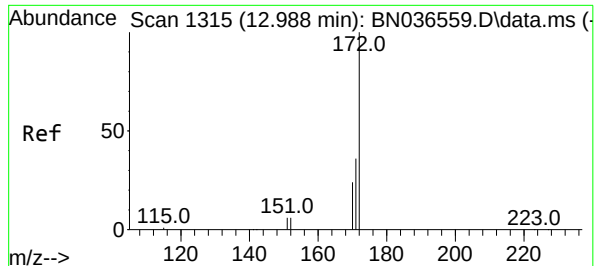
Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.0	84.2	126.2
160	51.7	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.365 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion	Ratio	Lower	Upper
330	100		
332	93.9	75.2	112.8
141	51.5	43.4	65.2





#15

2-Fluorobiphenyl

Concen: 0.432 ng

RT: 12.988 min Scan# 1315

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

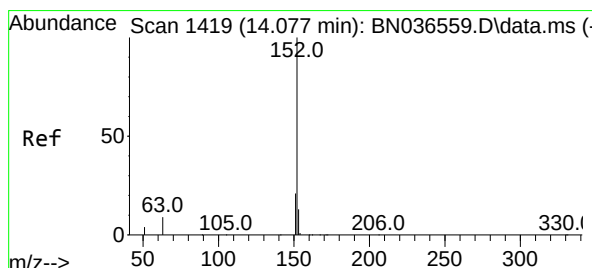
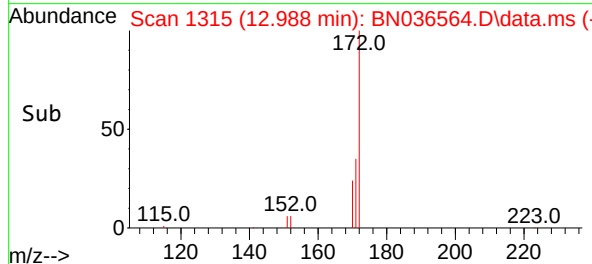
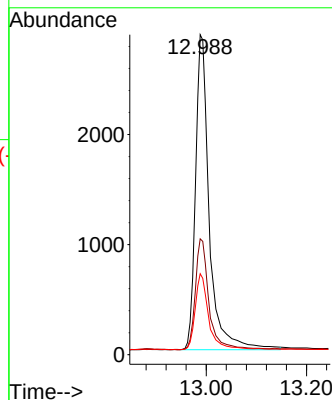
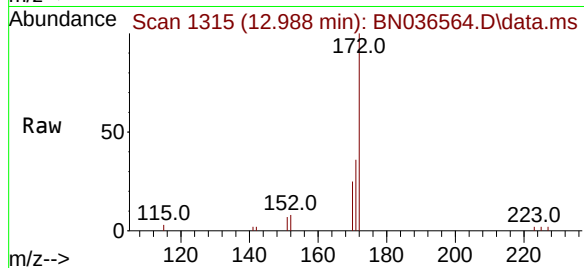
Tgt Ion:172 Resp: 7753

Ion Ratio Lower Upper

172 100

171 36.2 29.5 44.3

170 25.3 20.2 30.4



#16

Acenaphthylene

Concen: 0.416 ng

RT: 14.077 min Scan# 1419

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

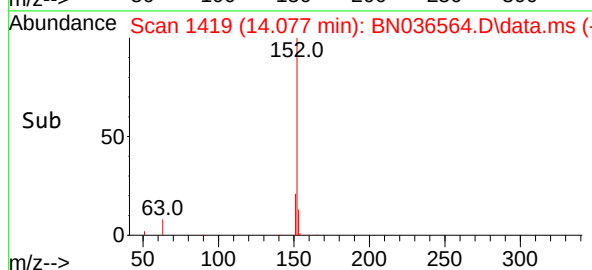
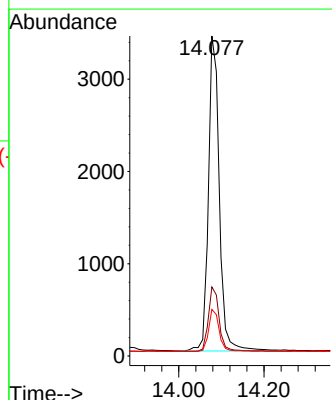
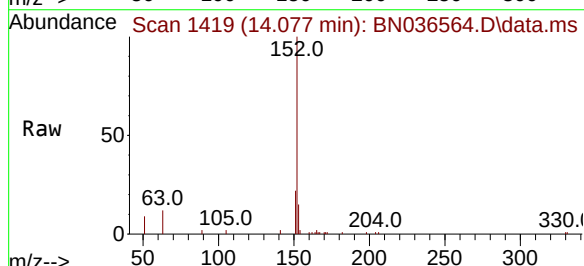
Tgt Ion:152 Resp: 6059

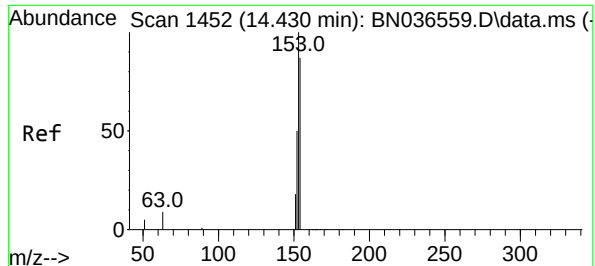
Ion Ratio Lower Upper

152 100

151 20.1 16.2 24.4

153 12.9 10.6 15.8

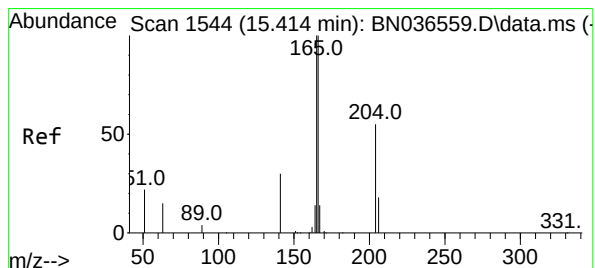
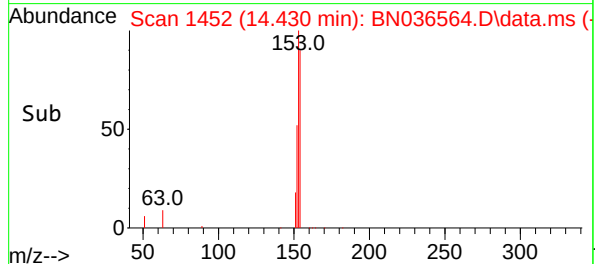
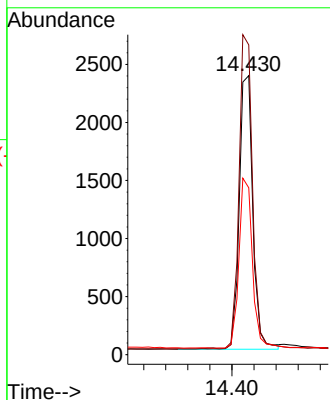
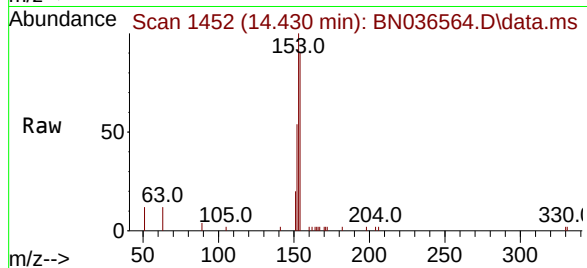




#17
Acenaphthene
Concen: 0.423 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

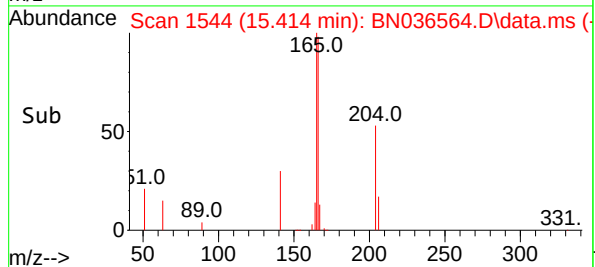
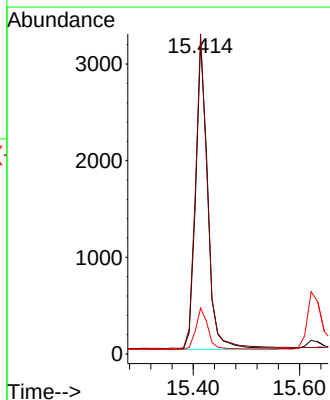
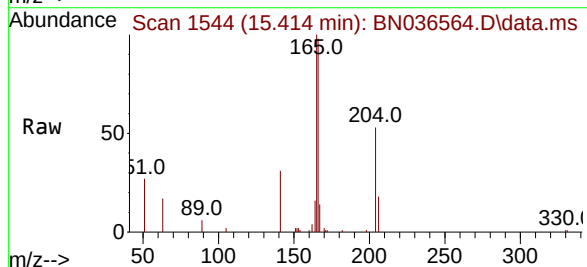
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

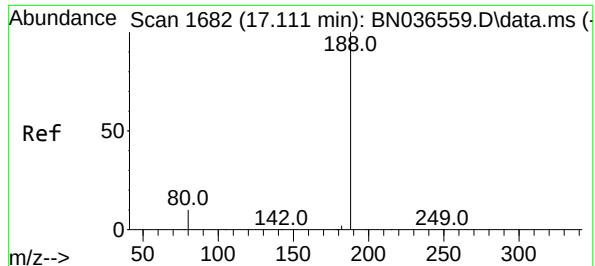
Tgt Ion	Ratio	Lower	Upper
154	100		
153	115.5	94.1	141.1
152	61.9	49.8	74.6



#18
Fluorene
Concen: 0.405 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.1	79.8	119.8
167	13.1	10.6	15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

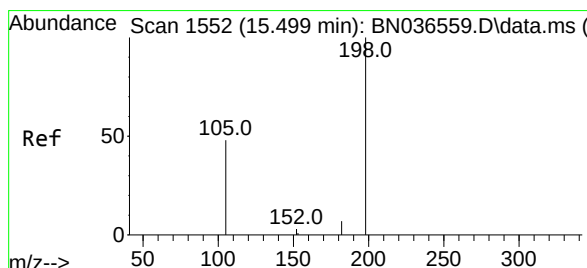
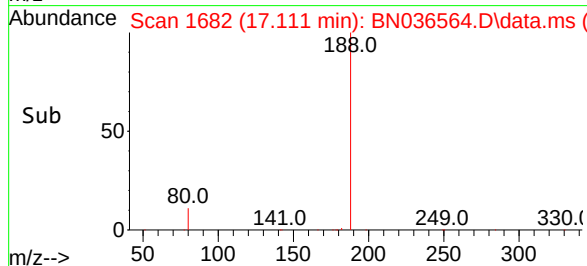
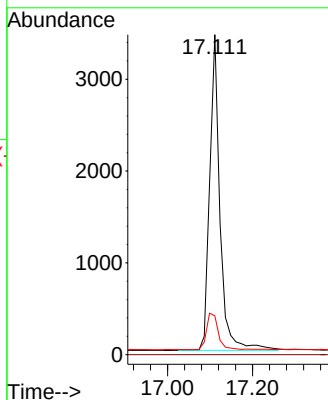
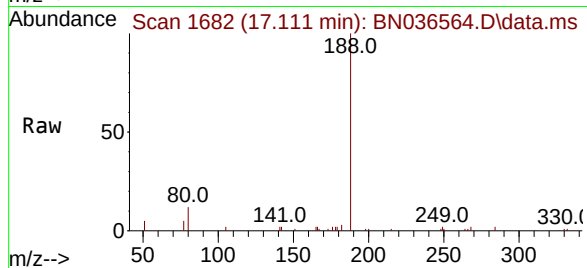
Tgt Ion:188 Resp: 5778

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.2 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.420 ng

RT: 15.510 min Scan# 1553

Delta R.T. 0.011 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

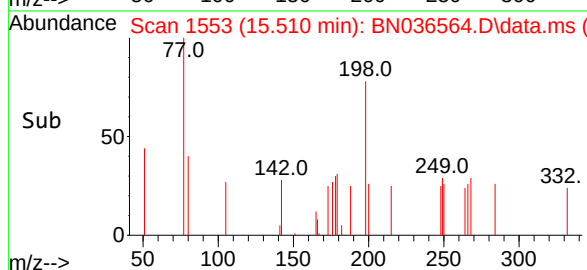
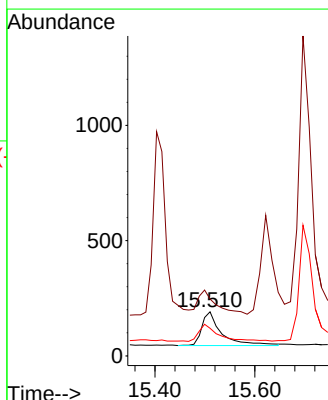
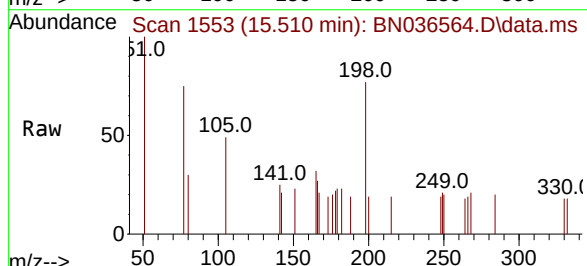
Tgt Ion:198 Resp: 404

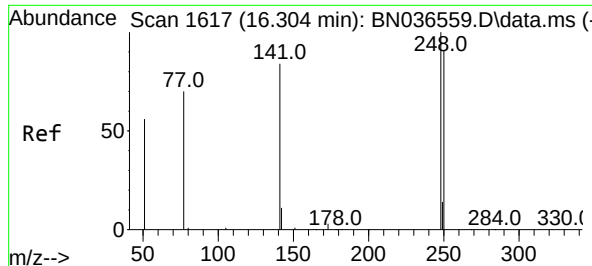
Ion Ratio Lower Upper

198 100

51 129.3 107.9 161.9

105 62.8 56.2 84.2

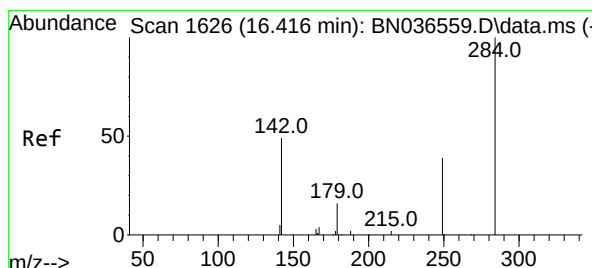
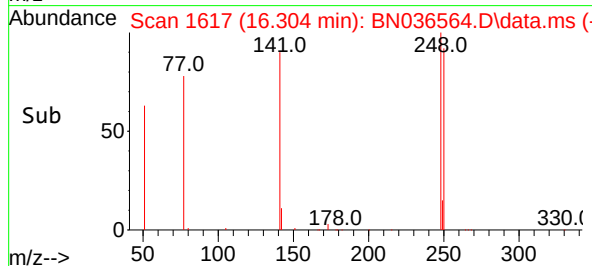
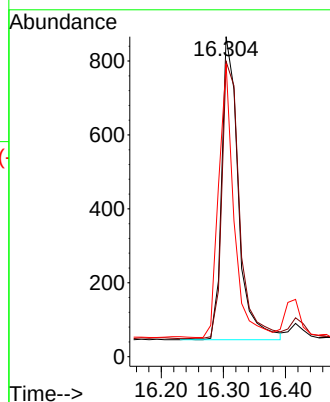
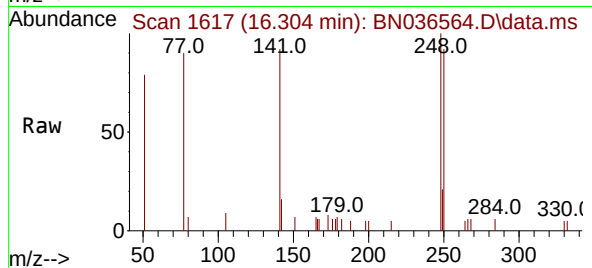




#21
4-Bromophenyl-phenylether
Concen: 0.421 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

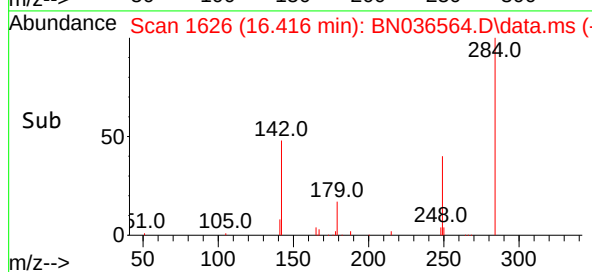
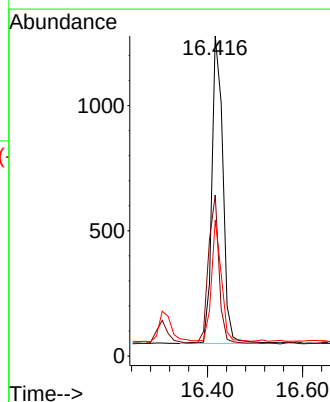
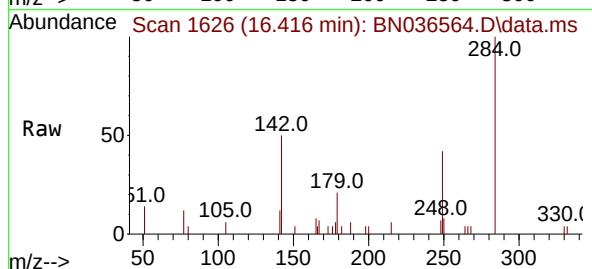
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

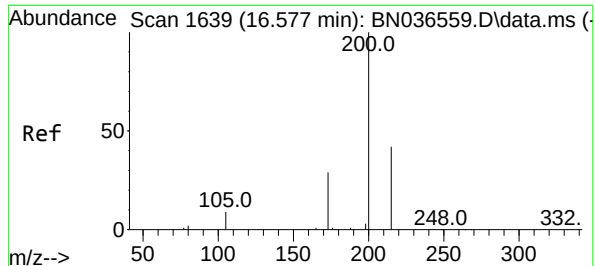
Tgt Ion	Ratio	Lower	Upper
248	100		
250	92.3	73.0	109.6
141	91.6	68.6	103.0



#22
Hexachlorobenzene
Concen: 0.455 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion	Ratio	Lower	Upper
284	100		
142	47.5	37.0	55.4
249	34.9	28.1	42.1

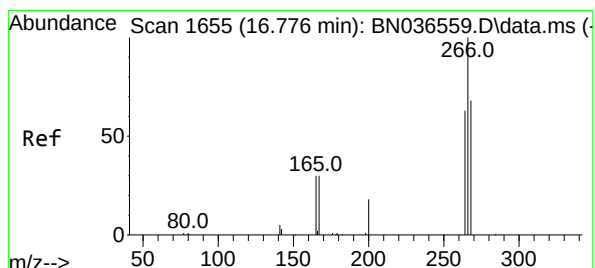
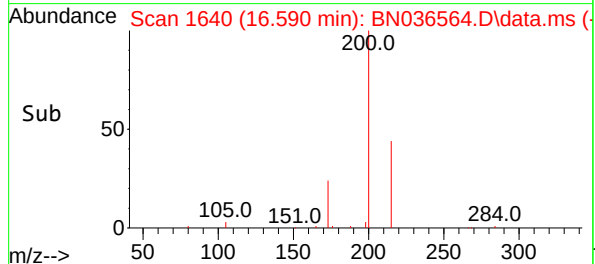
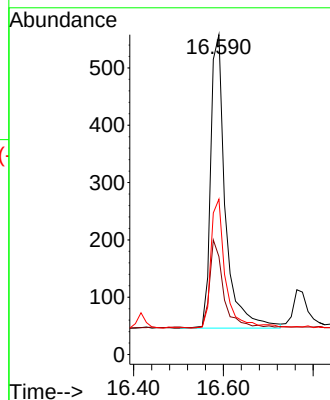
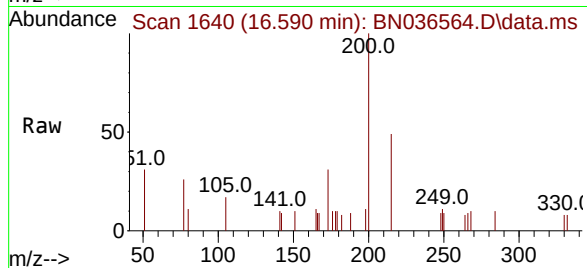




#23
Atrazine
Concen: 0.401 ng
RT: 16.590 min Scan# 1640
Delta R.T. 0.012 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

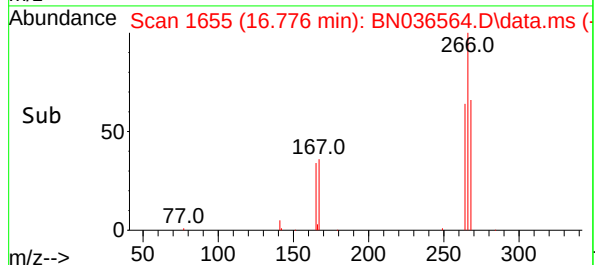
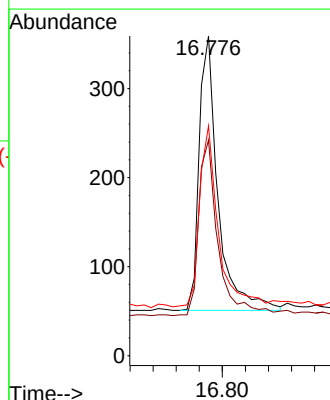
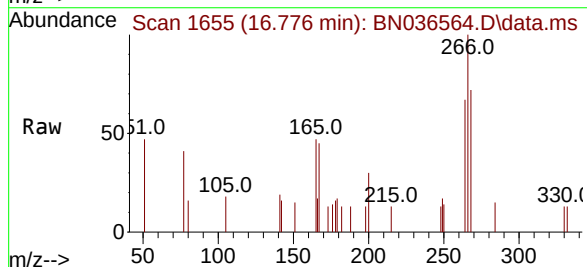
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

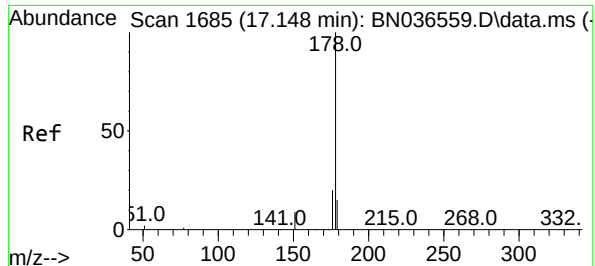
Tgt Ion	Ratio	Lower	Upper
200	100		
173	30.6	27.3	40.9
215	48.6	36.8	55.2



#24
Pentachlorophenol
Concen: 0.351 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion	Ratio	Lower	Upper
266	100		
264	67.1	49.6	74.4
268	66.7	50.9	76.3





#25

Phenanthrene

Concen: 0.417 ng

RT: 17.148 min Scan# 1685

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

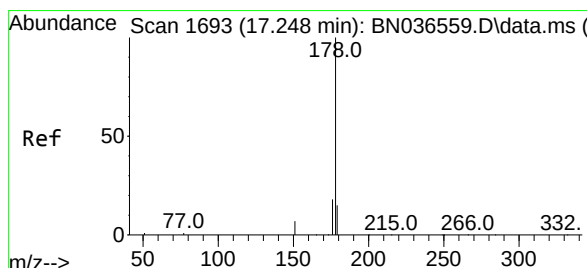
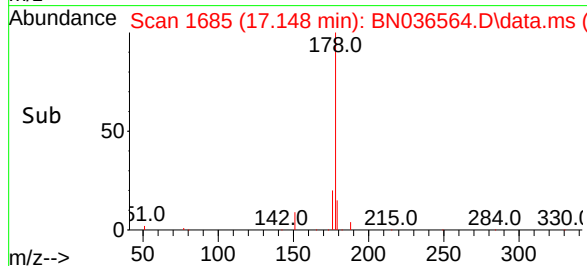
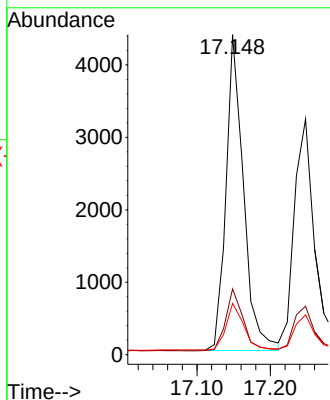
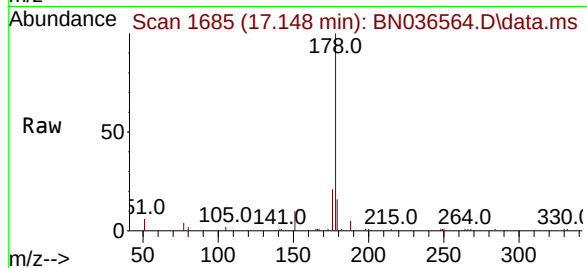
Tgt Ion:178 Resp: 7229

Ion Ratio Lower Upper

178 100

176 19.8 15.9 23.9

179 15.0 12.2 18.4



#26

Anthracene

Concen: 0.407 ng

RT: 17.248 min Scan# 1693

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

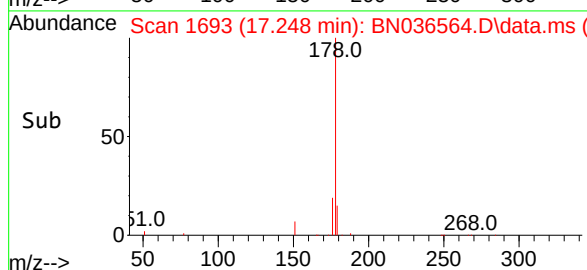
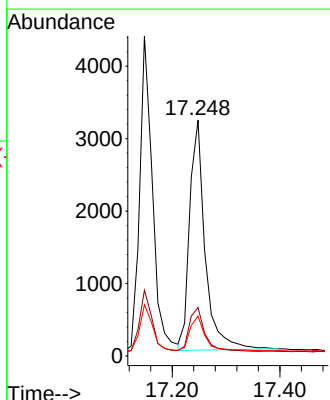
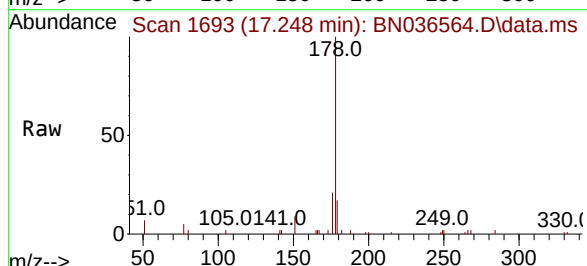
Tgt Ion:178 Resp: 6358

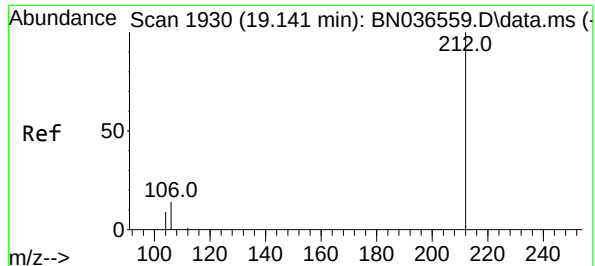
Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

179 14.8 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.415 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

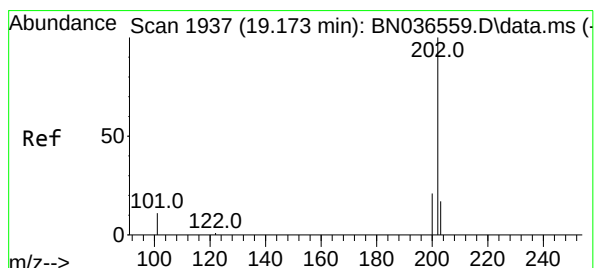
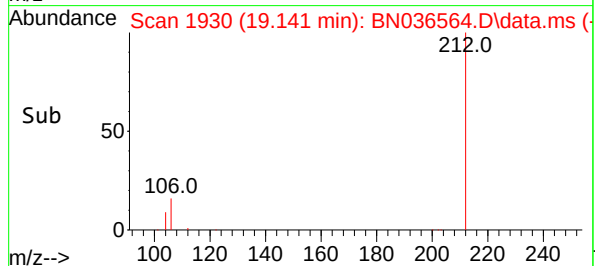
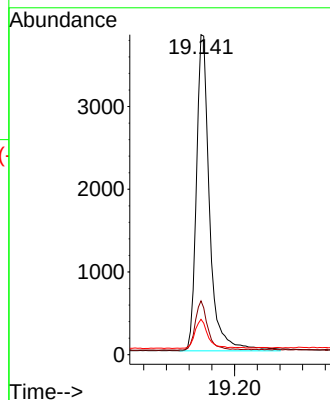
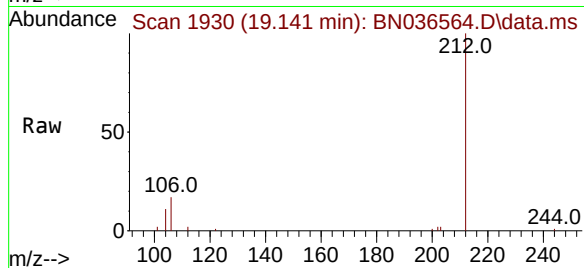
Tgt Ion:212 Resp: 6152

Ion Ratio Lower Upper

212 100

106 14.8 11.8 17.6

104 8.8 7.3 10.9



#28

Fluoranthene

Concen: 0.414 ng

RT: 19.174 min Scan# 1937

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

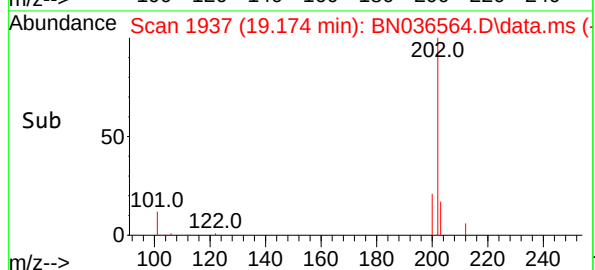
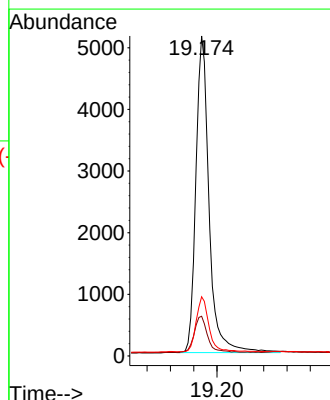
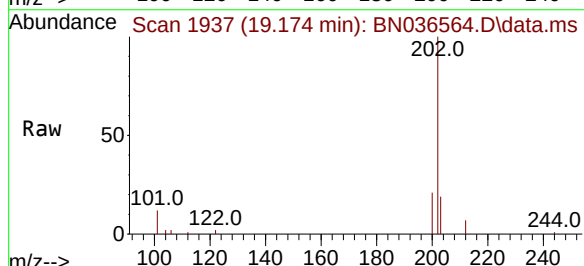
Tgt Ion:202 Resp: 8068

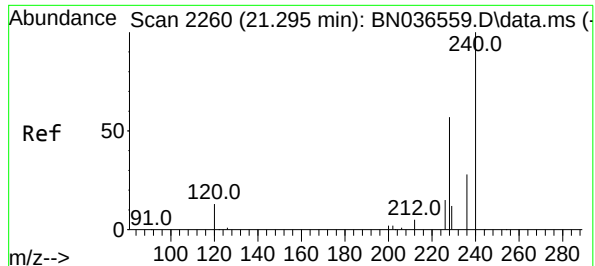
Ion Ratio Lower Upper

202 100

101 11.6 9.4 14.0

203 16.8 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

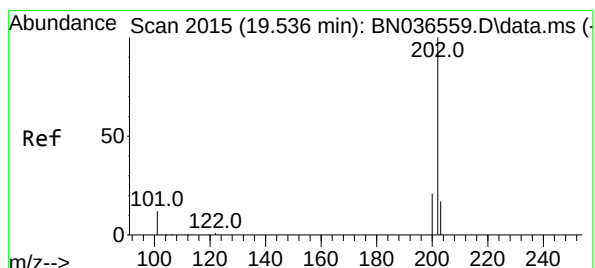
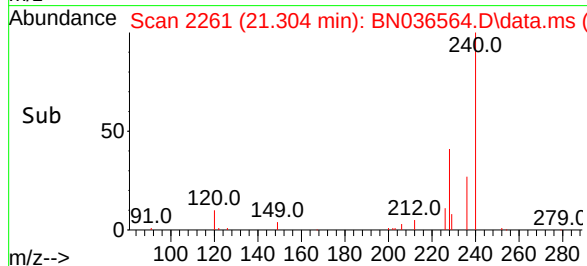
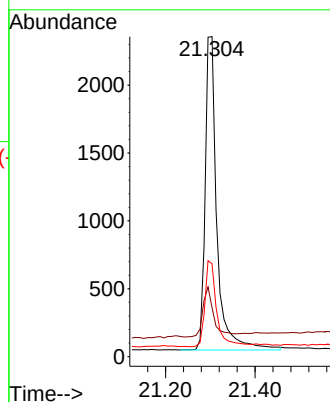
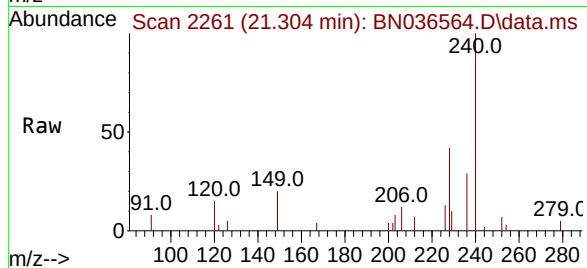
Tgt Ion:240 Resp: 4219

Ion Ratio Lower Upper

240 100

120 15.4 14.6 22.0

236 29.1 24.1 36.1



#30

Pyrene

Concen: 0.395 ng

RT: 19.536 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

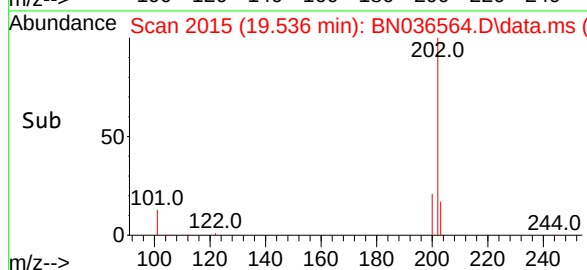
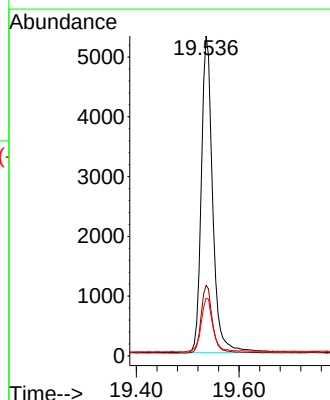
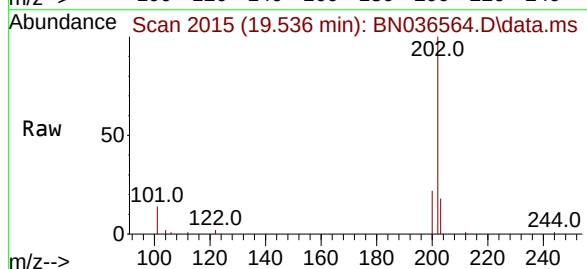
Tgt Ion:202 Resp: 8156

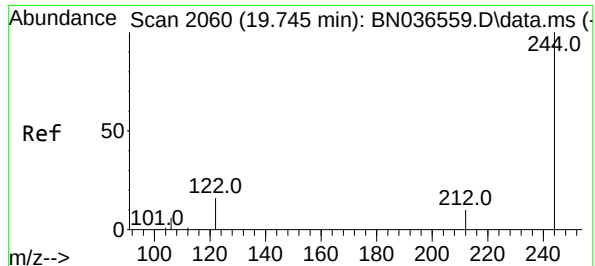
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.4 14.1 21.1

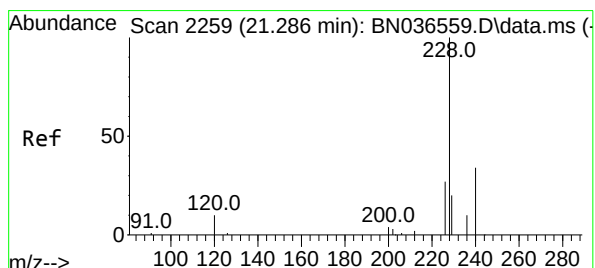
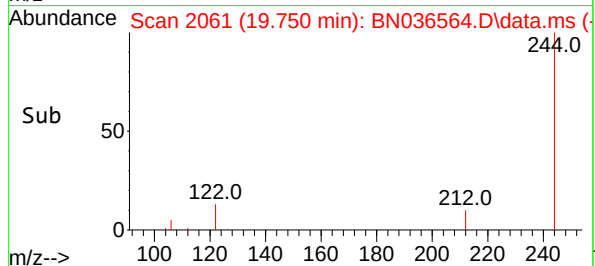
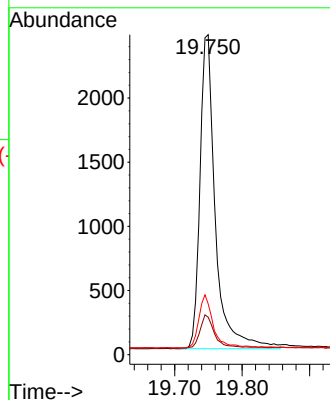
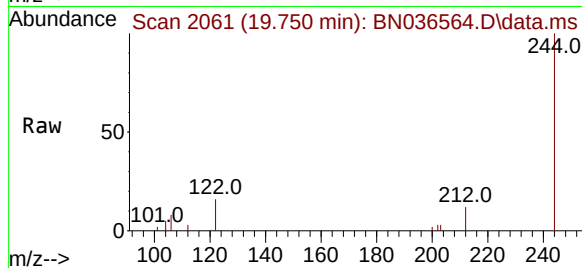




#31
Terphenyl-d14
Concen: 0.384 ng
RT: 19.750 min Scan# 2061
Delta R.T. 0.005 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

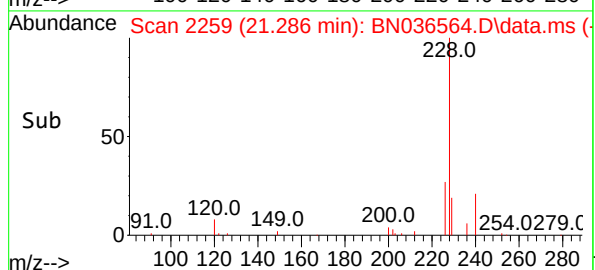
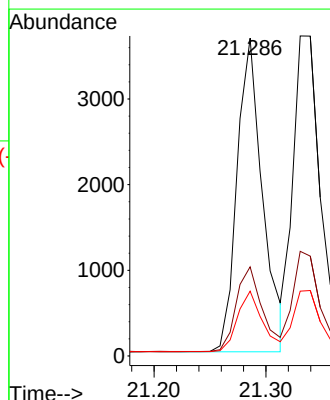
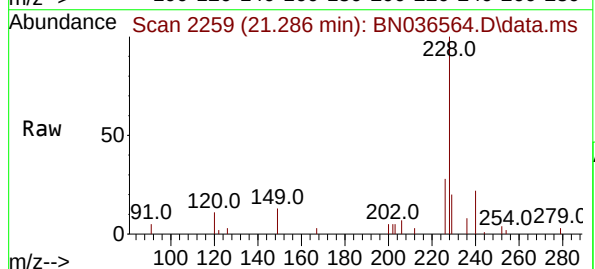
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

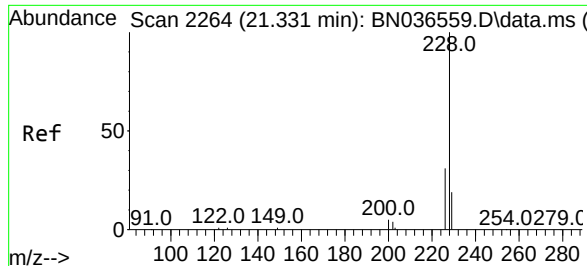
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.7	9.6	14.4
122	15.8	13.9	20.9



#32
Benzo(a)anthracene
Concen: 0.396 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	20.4	16.6	25.0





#33

Chrysene

Concen: 0.433 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

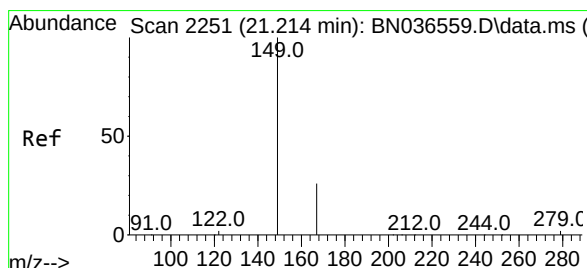
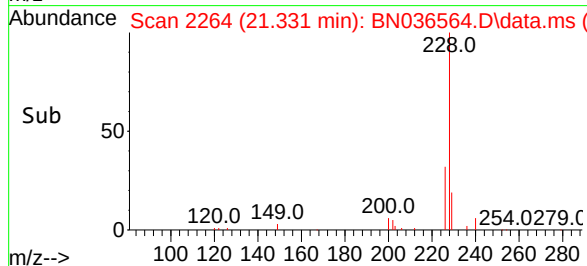
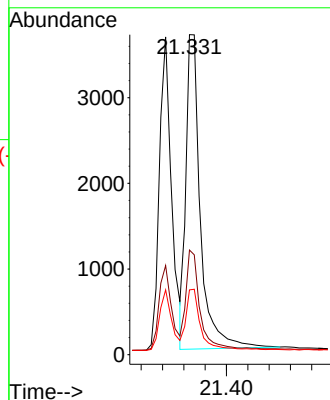
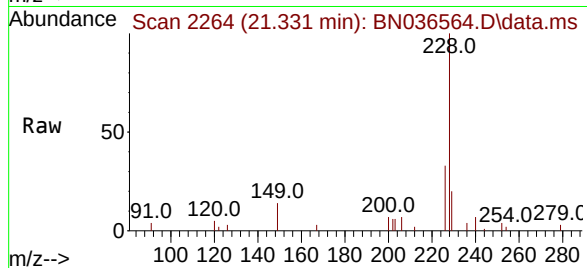
Tgt Ion:228 Resp: 6940

Ion Ratio Lower Upper

228 100

226 32.7 25.3 37.9

229 20.3 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.344 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

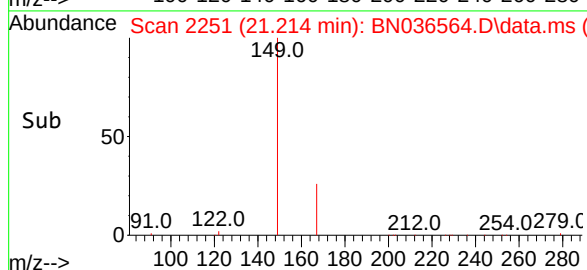
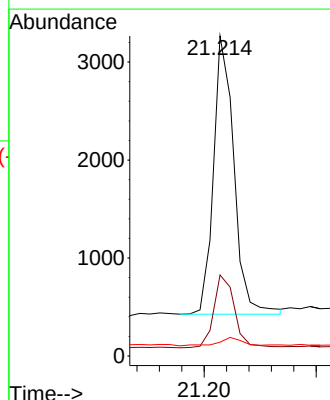
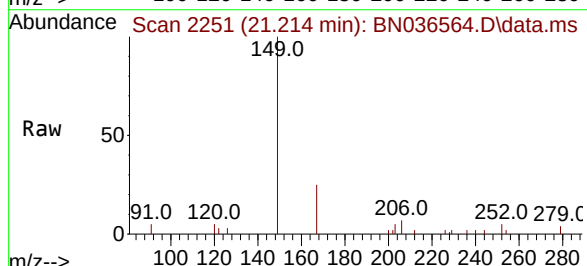
Tgt Ion:149 Resp: 3594

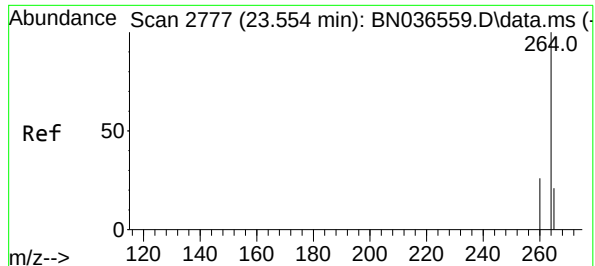
Ion Ratio Lower Upper

149 100

167 26.6 20.7 31.1

279 3.7 3.6 5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

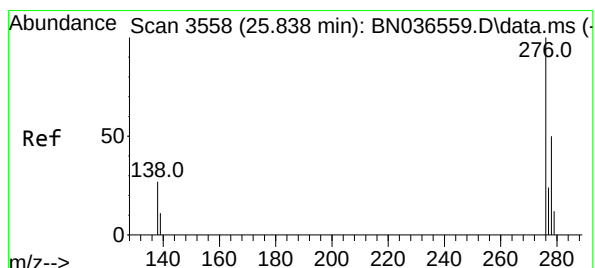
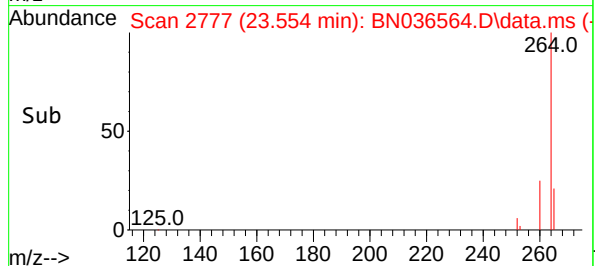
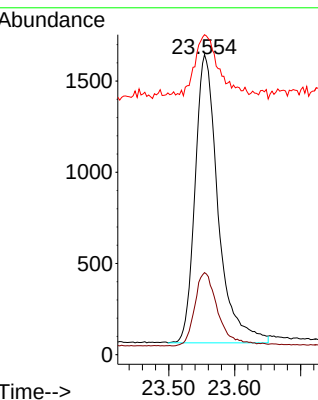
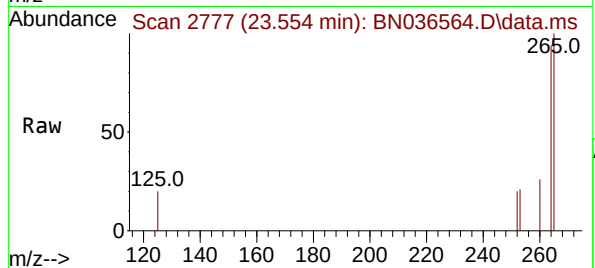
Tgt Ion:264 Resp: 3835

Ion Ratio Lower Upper

264 100

260 27.4 22.6 33.8

265 106.6 88.1 132.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.463 ng

RT: 25.841 min Scan# 3559

Delta R.T. 0.003 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

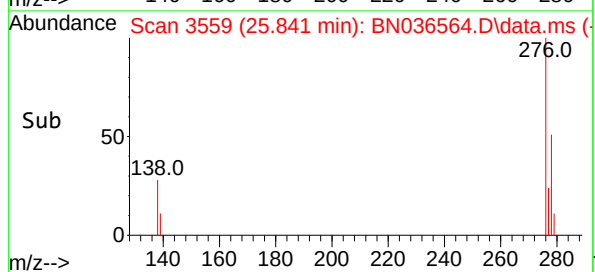
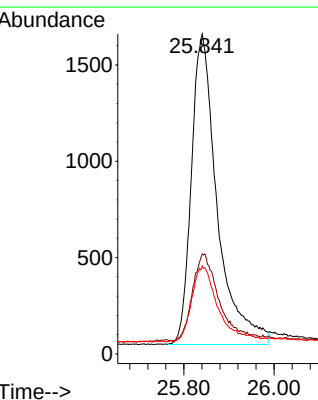
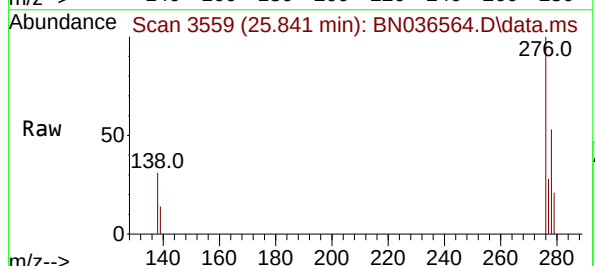
Tgt Ion:276 Resp: 6410

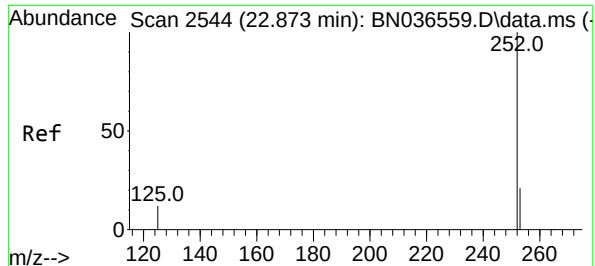
Ion Ratio Lower Upper

276 100

138 28.1 23.4 35.2

277 24.5 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.423 ng

RT: 22.879 min Scan# 2544

Delta R.T. 0.006 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

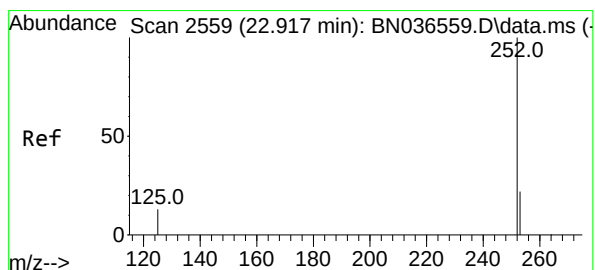
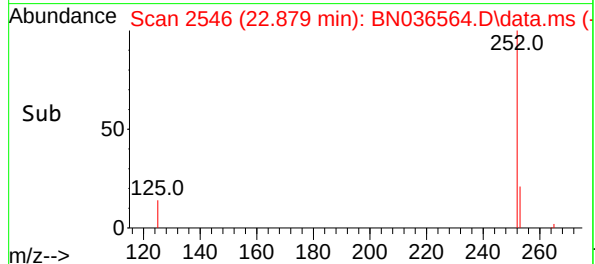
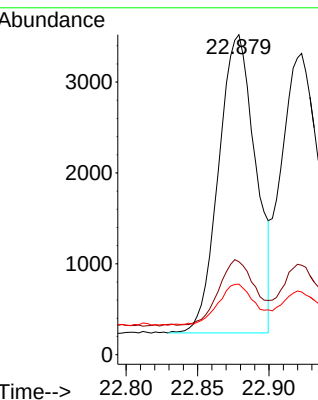
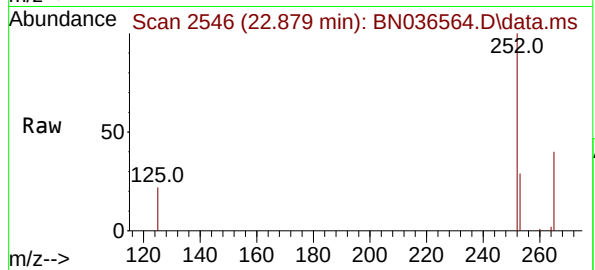
Tgt Ion:252 Resp: 5902

Ion Ratio Lower Upper

252 100

253 29.0 23.9 35.9

125 22.1 17.4 26.2



#38

Benzo(k)fluoranthene

Concen: 0.429 ng

RT: 22.923 min Scan# 2561

Delta R.T. 0.006 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

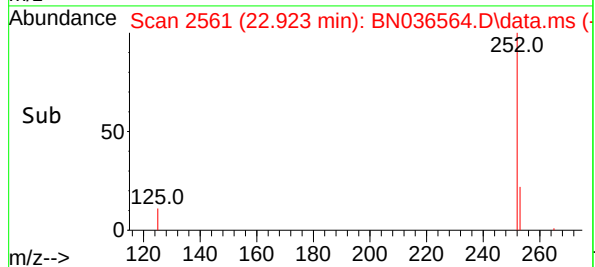
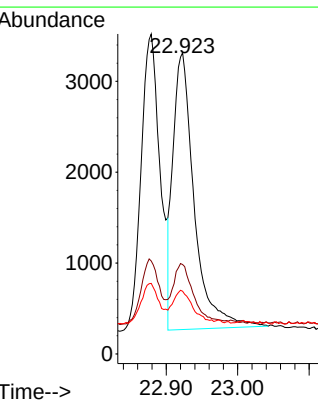
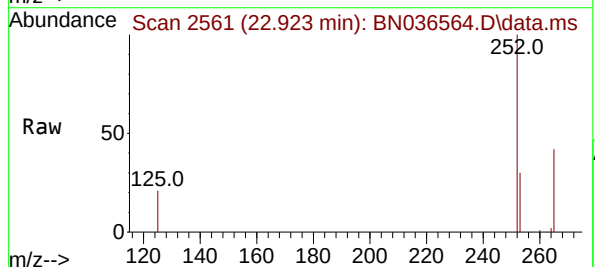
Tgt Ion:252 Resp: 6286

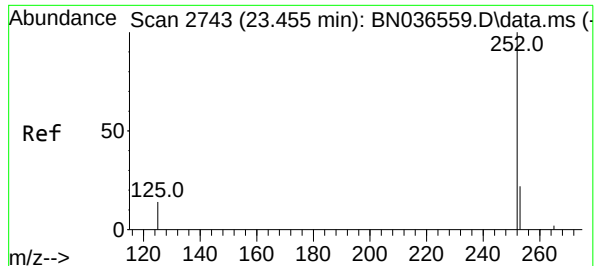
Ion Ratio Lower Upper

252 100

253 29.7 24.6 36.8

125 20.8 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.438 ng

RT: 23.458 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

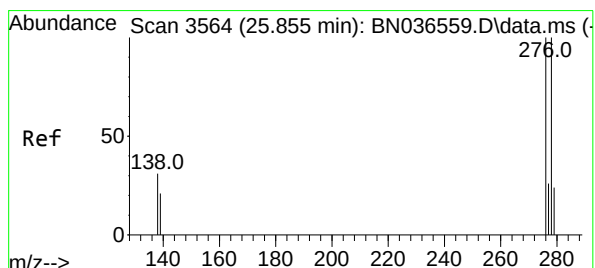
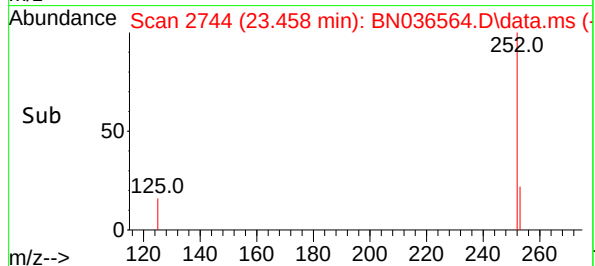
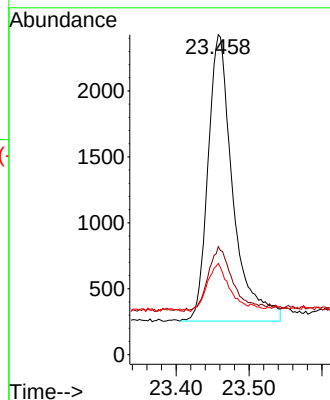
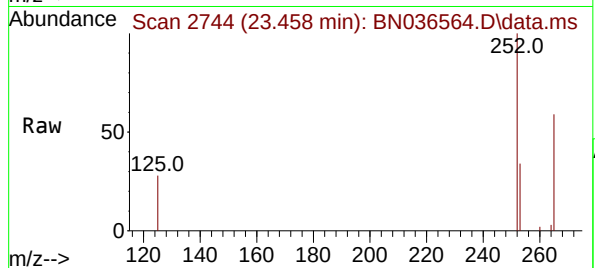
Tgt Ion:252 Resp: 5147

Ion Ratio Lower Upper

252 100

253 33.7 27.8 41.8

125 28.5 22.7 34.1



#40

Dibenzo(a,h)anthracene

Concen: 0.440 ng

RT: 25.855 min Scan# 3564

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

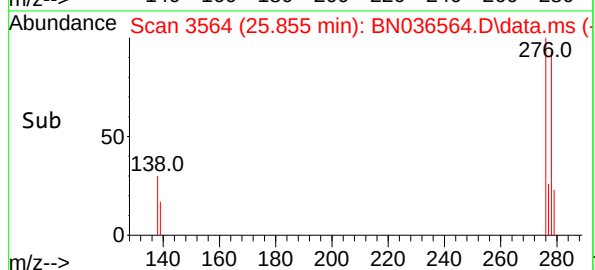
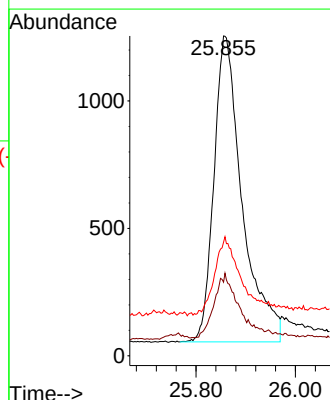
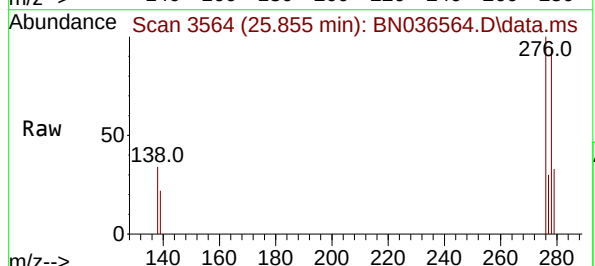
Tgt Ion:278 Resp: 4740

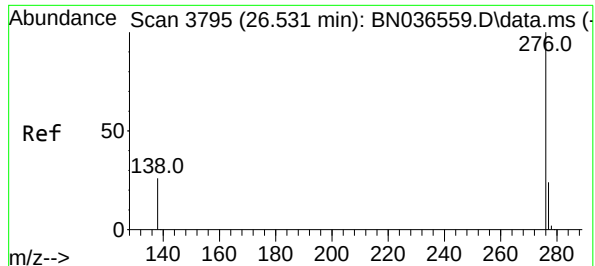
Ion Ratio Lower Upper

278 100

139 23.0 20.8 31.2

279 35.5 28.8 43.2





#41

Benzo(g,h,i)perylene

Concen: 0.477 ng

RT: 26.534 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN036564.D

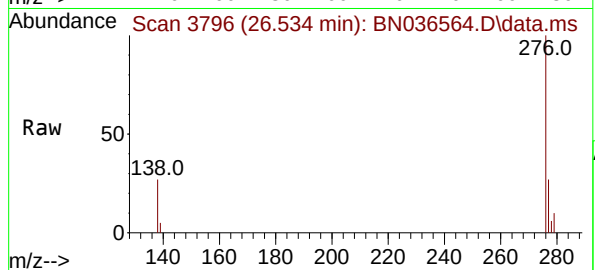
Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025



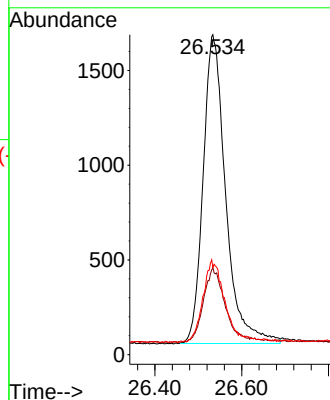
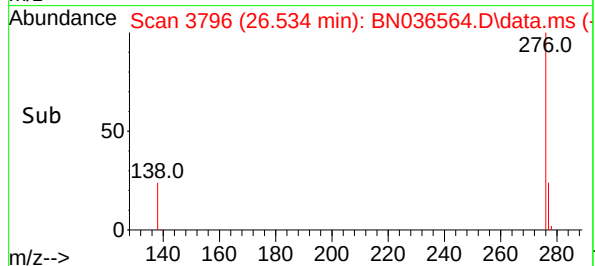
Tgt Ion:276 Resp: 5877

Ion Ratio Lower Upper

276 100

277 27.2 22.2 33.4

138 27.2 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036564.D
 Acq On : 10 Mar 2025 16:38
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN031025

Quant Time: Mar 10 17:10:04 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 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	113	0.00
2	1,4-Dioxane	0.444	0.521	-17.3	118	0.00
3	n-Nitrosodimethylamine	0.898	0.918	-2.2	111	0.00
4 S	2-Fluorophenol	0.932	0.972	-4.3	111	0.00
5 S	Phenol-d6	1.152	1.103	4.3	110	0.00
6	bis(2-Chloroethyl)ether	1.190	1.184	0.5	113	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	111	0.00
8 S	Nitrobenzene-d5	0.435	0.418	3.9	112	0.00
9	Naphthalene	1.177	1.191	-1.2	109	0.00
10	Hexachlorobutadiene	0.277	0.301	-8.7	113	0.00
11 SURR	2-Methylnaphthalene-d10	0.595	0.594	0.2	108	0.00
12	2-Methylnaphthalene	0.749	0.721	3.7	104	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	102	0.00
14 S	2,4,6-Tribromophenol	0.182	0.166	8.8	90	0.00
15 S	2-Fluorobiphenyl	2.327	2.513	-8.0	107	0.00
16	Acenaphthylene	1.888	1.964	-4.0	103	0.00
17	Acenaphthene	1.236	1.308	-5.8	104	0.00
18	Fluorene	1.672	1.694	-1.3	98	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	96	0.00
20	4,6-Dinitro-2-methylphenol	0.086	0.070	18.6	87	0.01
21	4-Bromophenyl-phenylether	0.251	0.264	-5.2	93	0.00
22	Hexachlorobenzene	0.303	0.344	-13.5	98	0.00
23	Atrazine	0.201	0.202	-0.5	91	0.01
24	Pentachlorophenol	0.138	0.121	12.3	85	0.00
25	Phenanthrene	1.200	1.251	-4.2	93	0.00
26	Anthracene	1.083	1.100	-1.6	92	0.00
27 SURR	Fluoranthene-d10	1.025	1.065	-3.9	92	0.00
28	Fluoranthene	1.348	1.396	-3.6	93	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	103	0.00
30	Pyrene	1.956	1.933	1.2	93	0.00
31 S	Terphenyl-d14	0.958	0.920	4.0	92	0.00
32	Benzo(a)anthracene	1.391	1.378	0.9	98	0.00
33	Chrysene	1.520	1.645	-8.2	105	0.00
34	Bis(2-ethylhexyl)phthalate	0.990	0.852	13.9	84	0.00
35 I	Perylene-d12	1.000	1.000	0.0	108	0.00
36	Indeno(1,2,3-cd)pyrene	1.444	1.671	-15.7	117	0.00
37	Benzo(b)fluoranthene	1.456	1.539	-5.7	108	0.00
38	Benzo(k)fluoranthene	1.527	1.639	-7.3	110	0.00
39 C	Benzo(a)pyrene	1.226	1.342	-9.5	112	0.00
40	Dibenzo(a,h)anthracene	1.124	1.236	-10.0	115	0.00
41	Benzo(g,h,i)perylene	1.286	1.532	-19.1	120	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036564.D
Acq On : 10 Mar 2025 16:38
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Quant Time: Mar 10 17:10:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	113	0.00
2	1,4-Dioxane	0.400	0.470	-17.5	118	0.00
3	n-Nitrosodimethylamine	0.400	0.409	-2.2	111	0.00
4 S	2-Fluorophenol	0.400	0.417	-4.2	111	0.00
5 S	Phenol-d6	0.400	0.383	4.3	110	0.00
6	bis(2-Chloroethyl)ether	0.400	0.398	0.5	113	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	111	0.00
8 S	Nitrobenzene-d5	0.400	0.384	4.0	112	0.00
9	Naphthalene	0.400	0.405	-1.3	109	0.00
10	Hexachlorobutadiene	0.400	0.434	-8.5	113	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.399	0.3	108	0.00
12	2-Methylnaphthalene	0.400	0.385	3.8	104	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	102	0.00
14 S	2,4,6-Tribromophenol	0.400	0.365	8.8	90	0.00
15 S	2-Fluorobiphenyl	0.400	0.432	-8.0	107	0.00
16	Acenaphthylene	0.400	0.416	-4.0	103	0.00
17	Acenaphthene	0.400	0.423	-5.7	104	0.00
18	Fluorene	0.400	0.405	-1.3	98	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	96	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.420	-5.0	87	0.01
21	4-Bromophenyl-phenylether	0.400	0.421	-5.2	93	0.00
22	Hexachlorobenzene	0.400	0.455	-13.7	98	0.00
23	Atrazine	0.400	0.401	-0.3	91	0.01
24	Pentachlorophenol	0.400	0.351	12.3	85	0.00
25	Phenanthrene	0.400	0.417	-4.2	93	0.00
26	Anthracene	0.400	0.407	-1.7	92	0.00
27 SURR	Fluoranthene-d10	0.400	0.415	-3.7	92	0.00
28	Fluoranthene	0.400	0.414	-3.5	93	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	103	0.00
30	Pyrene	0.400	0.395	1.3	93	0.00
31 S	Terphenyl-d14	0.400	0.384	4.0	92	0.00
32	Benzo(a)anthracene	0.400	0.396	1.0	98	0.00
33	Chrysene	0.400	0.433	-8.2	105	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.344	14.0	84	0.00
35 I	Perylene-d12	0.400	0.400	0.0	108	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.463	-15.8	117	0.00
37	Benzo(b)fluoranthene	0.400	0.423	-5.7	108	0.00
38	Benzo(k)fluoranthene	0.400	0.429	-7.2	110	0.00
39 C	Benzo(a)pyrene	0.400	0.438	-9.5	112	0.00
40	Dibenzo(a,h)anthracene	0.400	0.440	-10.0	115	0.00
41	Benzo(g,h,i)perylene	0.400	0.477	-19.2	120	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG No.: Q1582

Instrument ID: BNA_N Calibration Date/Time: 03/17/2025 09:49

Lab File ID: BN036651.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.593		-0.3	20.0
Fluoranthene-d10	1.025	1.098		7.1	20.0
2-Fluorophenol	0.932	0.906		-2.8	20.0
Phenol-d6	1.152	1.101		-4.4	20.0
Nitrobenzene-d5	0.435	0.424		-2.5	20.0
2-Fluorobiphenyl	2.327	2.428		4.3	20.0
2,4,6-Tribromophenol	0.182	0.165		-9.3	20.0
Terphenyl-d14	0.958	1.008		5.2	20.0
1,4-Dioxane	0.444	0.497		11.9	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
 Data File : BN036651.D
 Acq On : 17 Mar 2025 09:49
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Mar 17 12:11:12 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

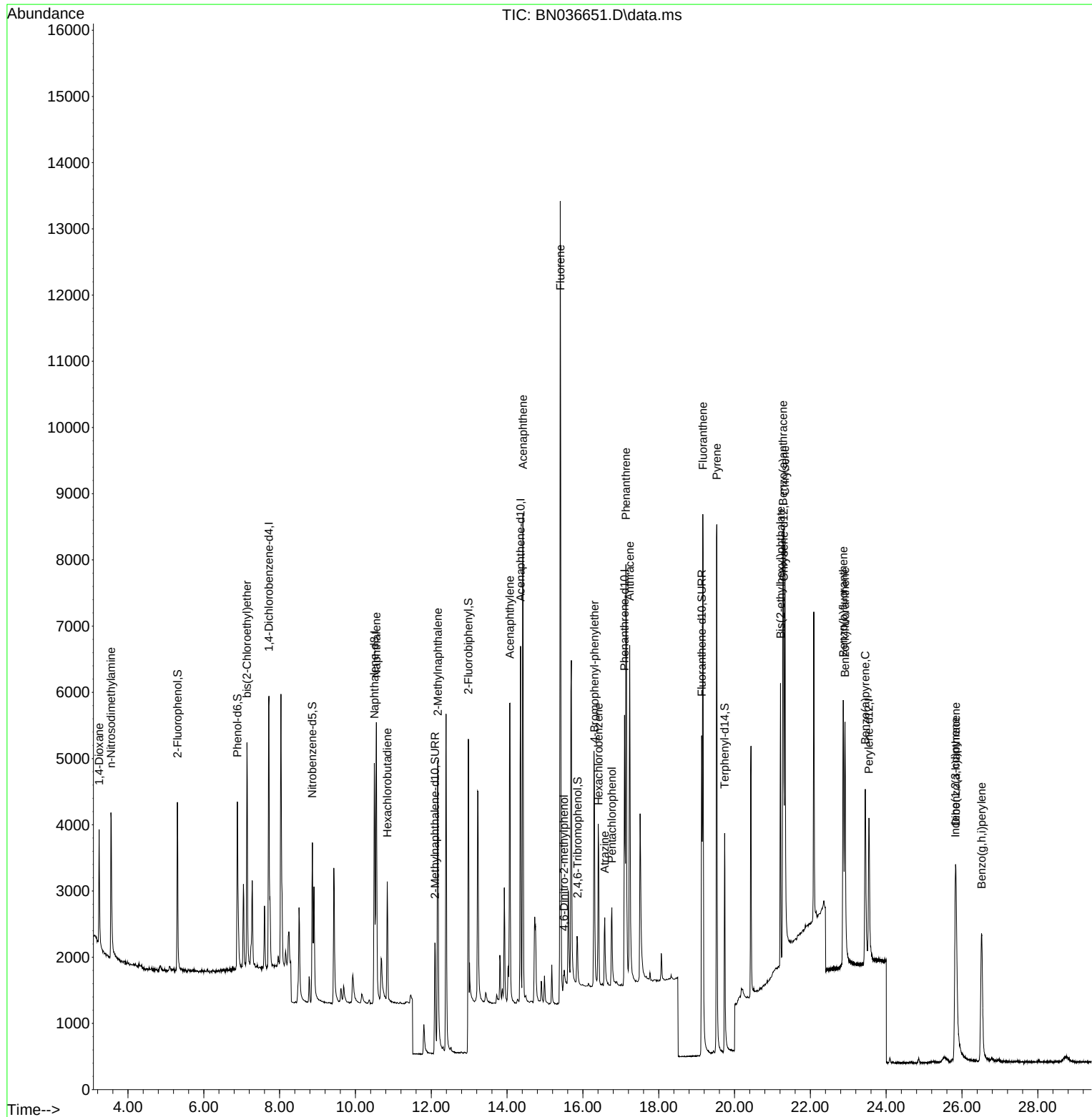
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2063	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	5025	0.400	ng	-0.01
13) Acenaphthene-d10	14.356	164	2968	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	5703	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	3893	0.400	ng	# 0.00
35) Perylene-d12	23.546	264	3363	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	1870	0.389	ng	0.00
5) Phenol-d6	6.887	99	2271	0.382	ng	-0.01
8) Nitrobenzene-d5	8.865	82	2131	0.390	ng	-0.01
11) 2-Methylnaphthalene-d10	12.096	152	2982	0.399	ng	-0.02
14) 2,4,6-Tribromophenol	15.858	330	489	0.363	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	7207	0.417	ng	0.00
27) Fluoranthene-d10	19.136	212	6261	0.428	ng	0.00
31) Terphenyl-d14	19.740	244	3924	0.421	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	1026	0.448	ng	99
3) n-Nitrosodimethylamine	3.550	42	2035	0.440	ng	# 95
6) bis(2-Chloroethyl)ether	7.139	93	2441	0.398	ng	99
9) Naphthalene	10.552	128	6028	0.408	ng	100
10) Hexachlorobutadiene	10.840	225	1432	0.412	ng	# 99
12) 2-Methylnaphthalene	12.172	142	3813	0.405	ng	100
16) Acenaphthylene	14.078	152	5688	0.406	ng	99
17) Acenaphthene	14.420	154	3797	0.414	ng	99
18) Fluorene	15.403	166	5057	0.408	ng	98
20) 4,6-Dinitro-2-methylph...	15.499	198	377	0.405	ng	86
21) 4-Bromophenyl-phenylether	16.305	248	1516	0.424	ng	# 81
22) Hexachlorobenzene	16.416	284	1816	0.421	ng	96
23) Atrazine	16.578	200	1206	0.421	ng	94
24) Pentachlorophenol	16.764	266	772	0.392	ng	98
25) Phenanthrene	17.136	178	7434	0.435	ng	100
26) Anthracene	17.235	178	6627	0.429	ng	99
28) Fluoranthene	19.164	202	8247	0.429	ng	99
30) Pyrene	19.531	202	8317	0.437	ng	99
32) Benzo(a)anthracene	21.277	228	5282	0.390	ng	99
33) Chrysene	21.331	228	6576	0.445	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	4080	0.423	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.823	276	5084	0.419	ng	97
37) Benzo(b)fluoranthene	22.870	252	5332	0.436	ng	99
38) Benzo(k)fluoranthene	22.914	252	5516	0.430	ng	96
39) Benzo(a)pyrene	23.449	252	4533	0.440	ng	97
40) Dibenzo(a,h)anthracene	25.841	278	3865	0.409	ng	97
41) Benzo(g,h,i)perylene	26.516	276	4584	0.424	ng	95

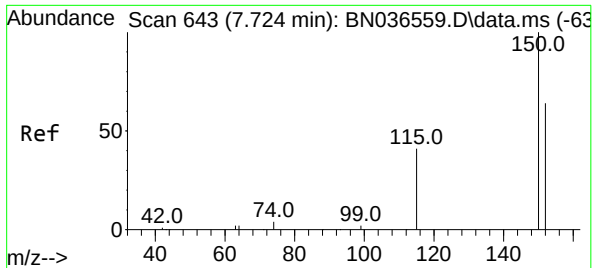
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036651.D
Acq On : 17 Mar 2025 09:49
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 17 12:11:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

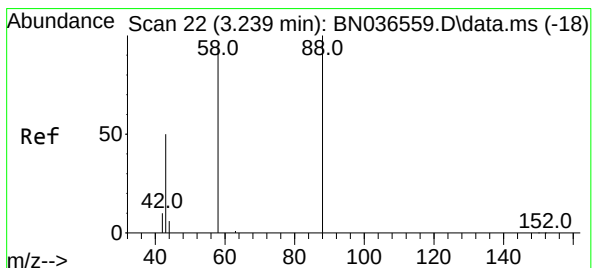
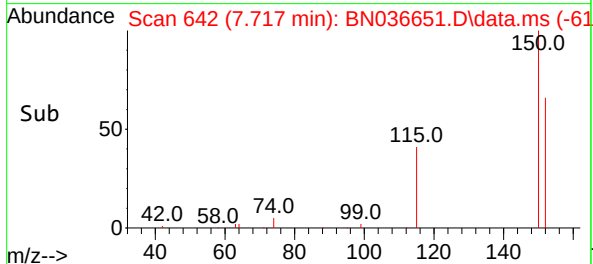
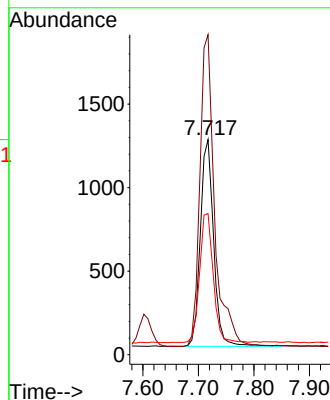
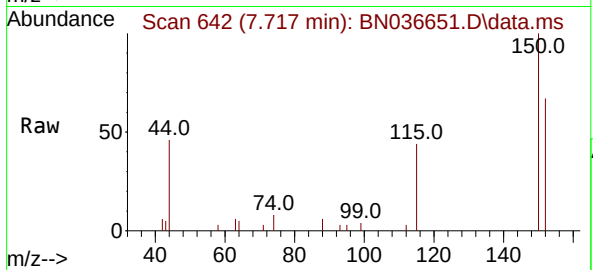




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

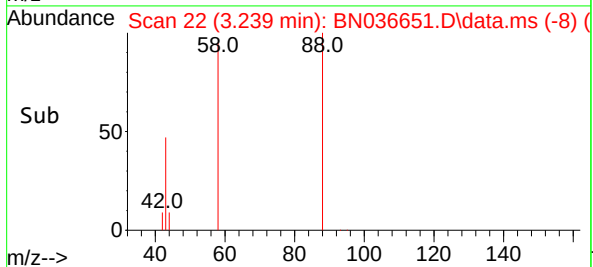
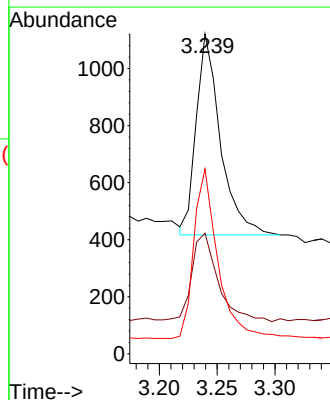
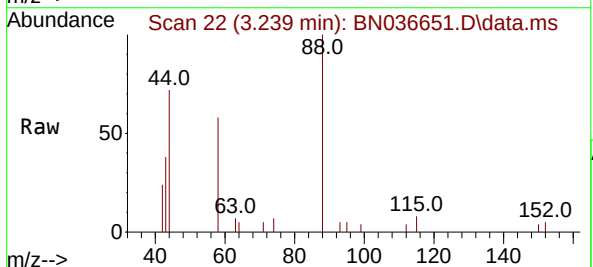
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2063
Ion Ratio Lower Upper
152 100
150 148.8 123.7 185.5
115 65.7 54.3 81.5

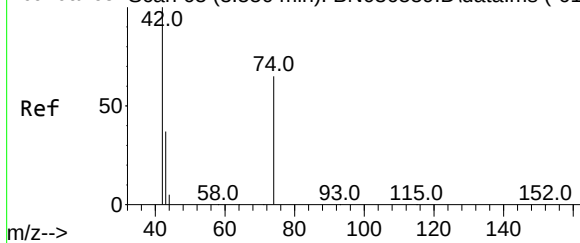


#2
1,4-Dioxane
Concen: 0.448 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion: 88 Resp: 1026
Ion Ratio Lower Upper
88 100
43 48.1 37.8 56.8
58 83.8 67.4 101.2



Abundance Scan 65 (3.550 min): BN036559.D\data.ms (-61)



#3

n-Nitrosodimethylamine

Concen: 0.440 ng

RT: 3.550 min Scan# 61

Delta R.T. 0.000 min

Lab File: BN036651.D

Acq: 17 Mar 2025 09:49

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 2035

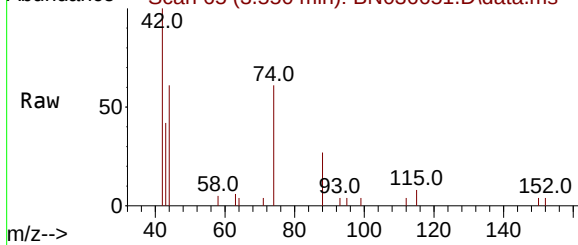
Ion Ratio Lower Upper

42 100

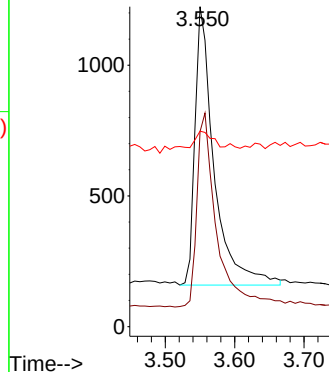
74 71.4 60.6 90.8

44 11.0 6.3 9.5#

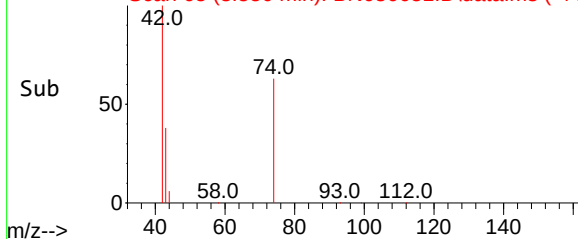
Abundance Scan 65 (3.550 min): BN036651.D\data.ms



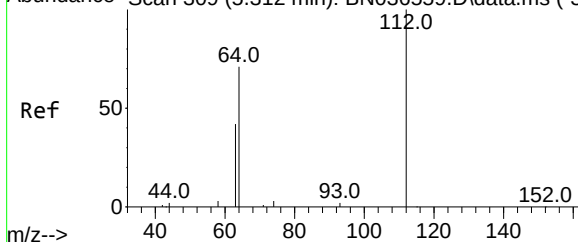
Abundance



Abundance Scan 65 (3.550 min): BN036651.D\data.ms (-44)



Abundance Scan 309 (5.312 min): BN036559.D\data.ms (-30)



#4

2-Fluorophenol

Concen: 0.389 ng

RT: 5.305 min Scan# 308

Delta R.T. -0.007 min

Lab File: BN036651.D

Acq: 17 Mar 2025 09:49

Tgt Ion: 112 Resp: 1870

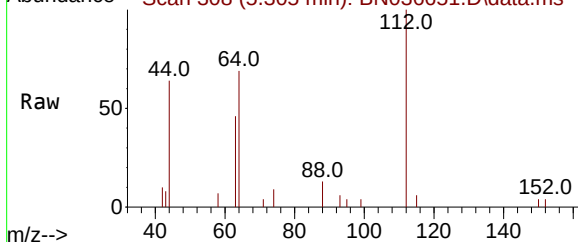
Ion Ratio Lower Upper

112 100

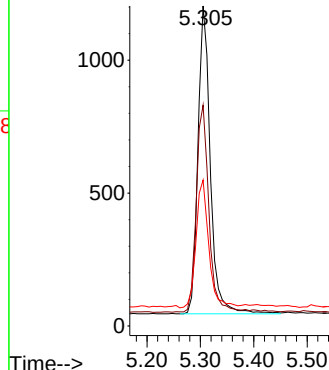
64 69.0 53.1 79.7

63 43.0 31.8 47.8

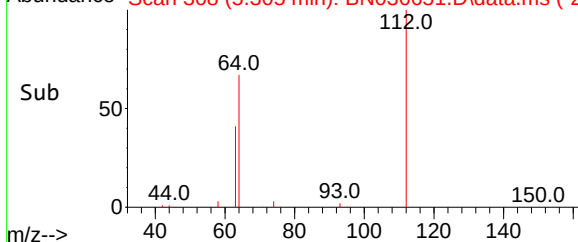
Abundance Scan 308 (5.305 min): BN036651.D\data.ms

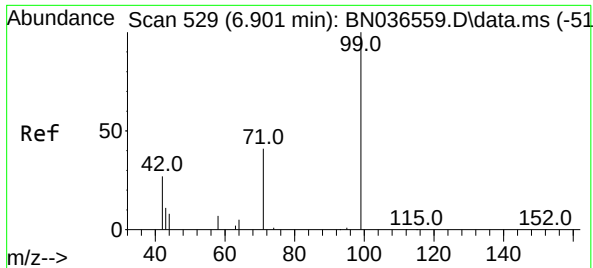


Abundance



Abundance Scan 308 (5.305 min): BN036651.D\data.ms (-28)

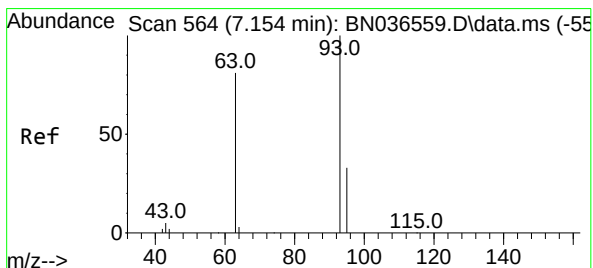
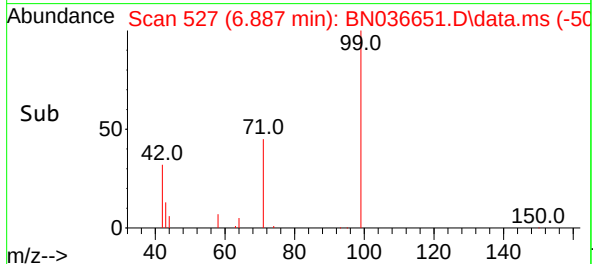
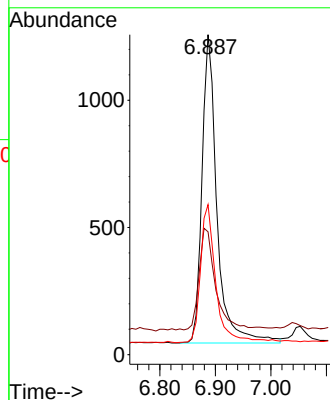
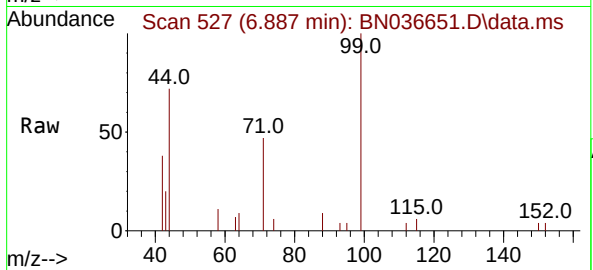




#5
Phenol-d6
Concen: 0.382 ng
RT: 6.887 min Scan# 51
Delta R.T. -0.014 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

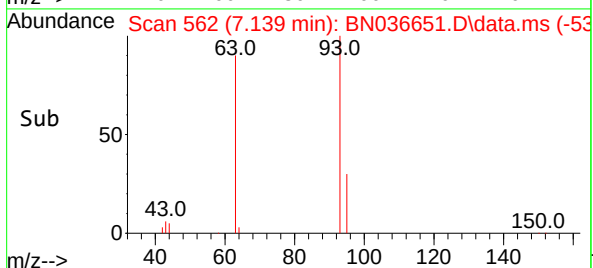
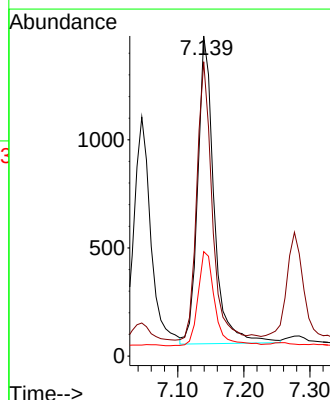
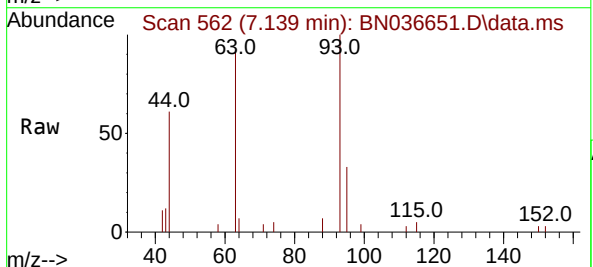
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

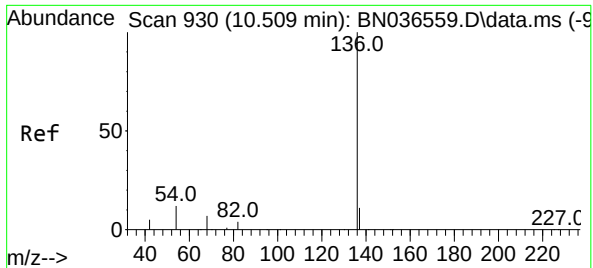
Tgt Ion: 99 Resp: 2271
Ion Ratio Lower Upper
99 100
42 36.2 26.5 39.7
71 46.1 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.398 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.014 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion: 93 Resp: 2441
Ion Ratio Lower Upper
93 100
63 86.0 67.7 101.5
95 31.3 25.6 38.4

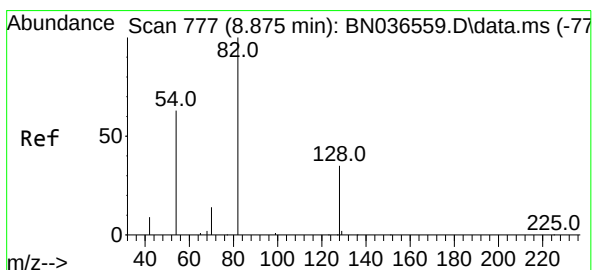
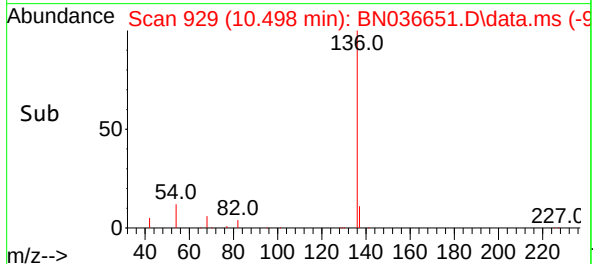
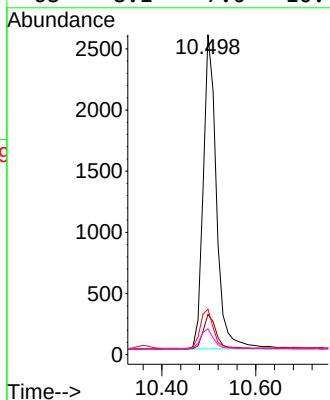
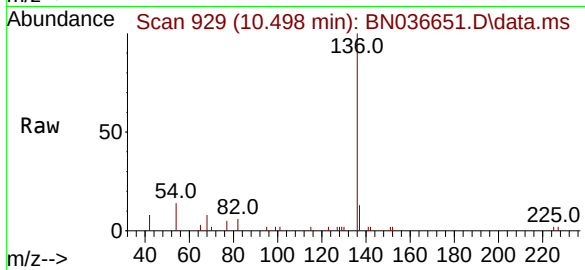




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

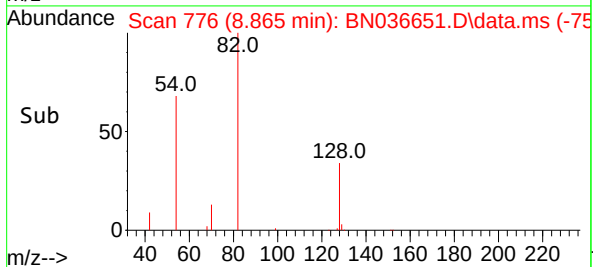
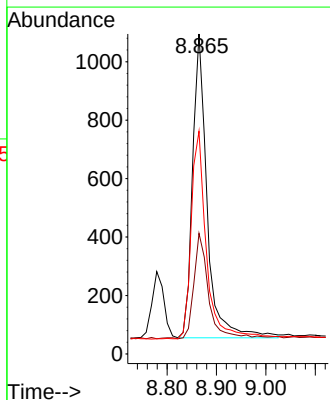
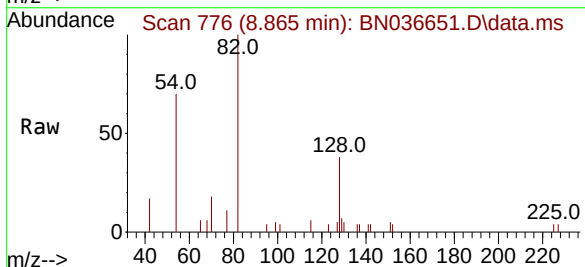
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

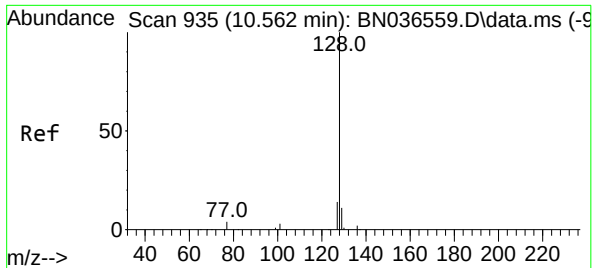
Tgt Ion:	136	Resp:	5025
Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.3	15.5
54	14.3	11.5	17.3
68	8.1	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.390 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:	82	Resp:	2131
Ion	Ratio	Lower	Upper
82	100		
128	37.7	30.6	45.8
54	69.6	52.2	78.4

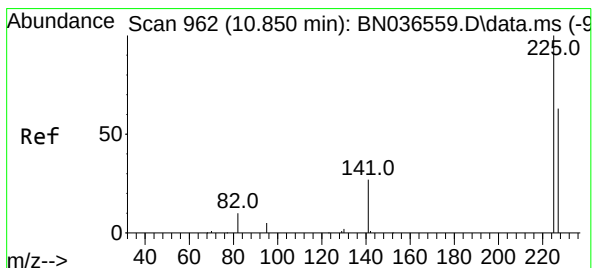
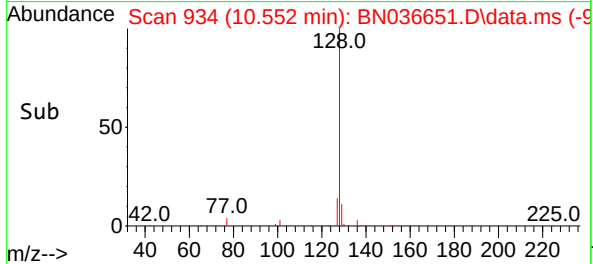
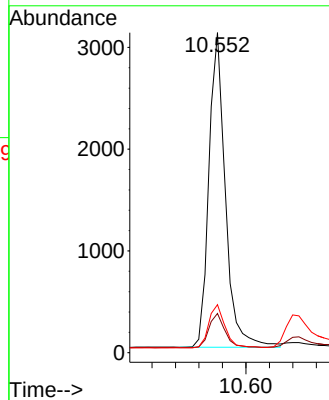
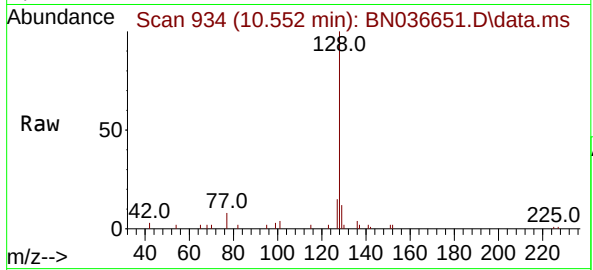




#9
Naphthalene
Concen: 0.408 ng
RT: 10.552 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

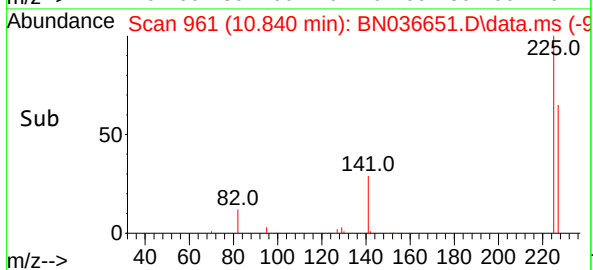
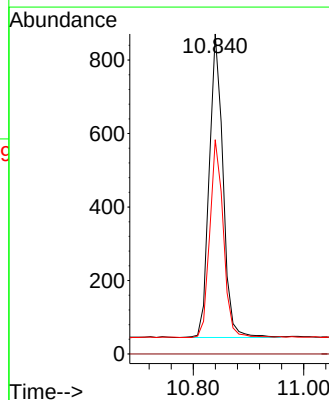
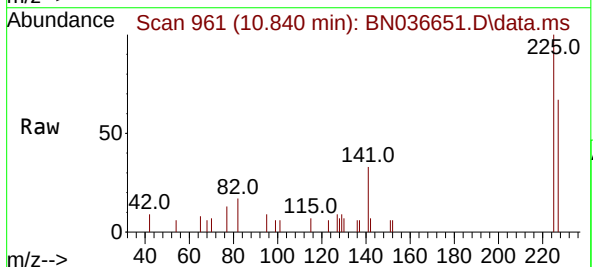
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

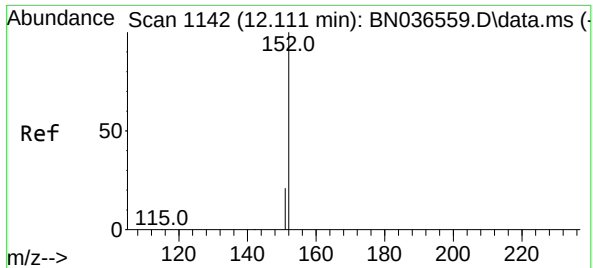
Tgt Ion:	128	Resp:	6028
Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	15.0	11.8	17.8



#10
Hexachlorobutadiene
Concen: 0.412 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:	225	Resp:	1432
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	51.8	77.8

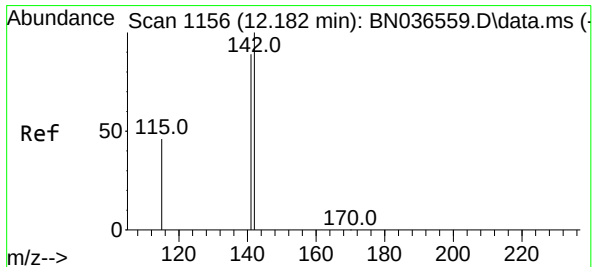
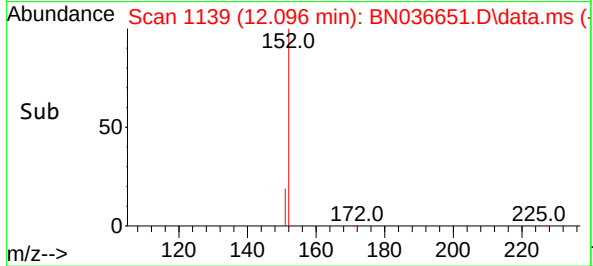
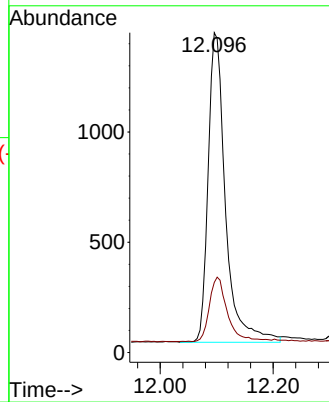
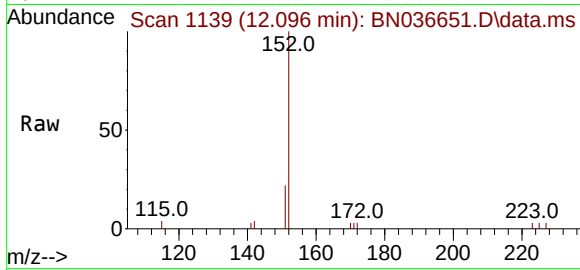




#11
2-Methylnaphthalene-d10
Concen: 0.399 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

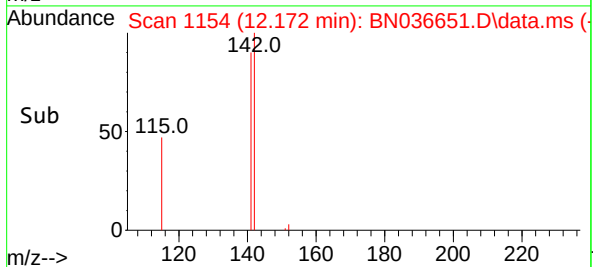
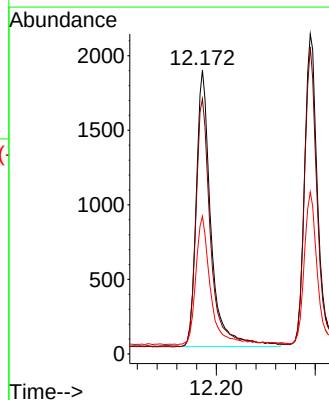
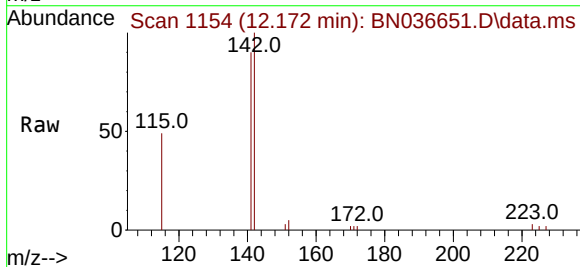
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

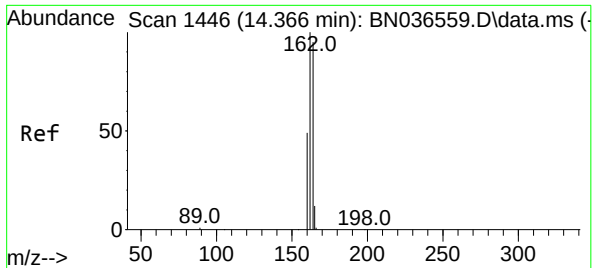
Tgt Ion:152 Resp: 2982
Ion Ratio Lower Upper
152 100
151 21.7 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.405 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:142 Resp: 3813
Ion Ratio Lower Upper
142 100
141 89.8 71.7 107.5
115 48.5 38.3 57.5

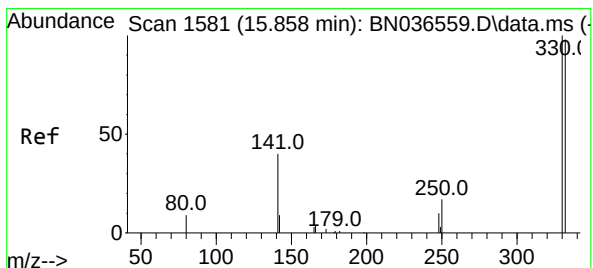
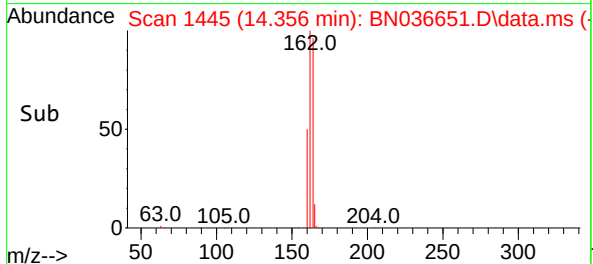
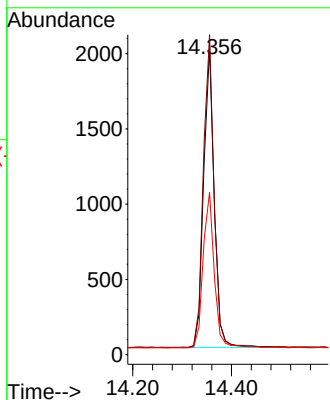
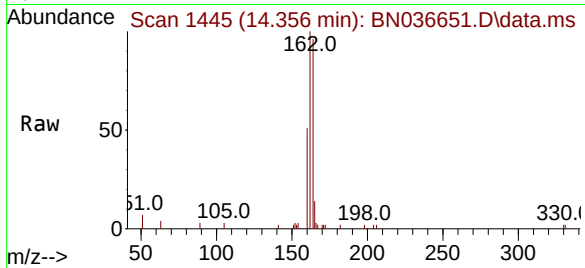




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

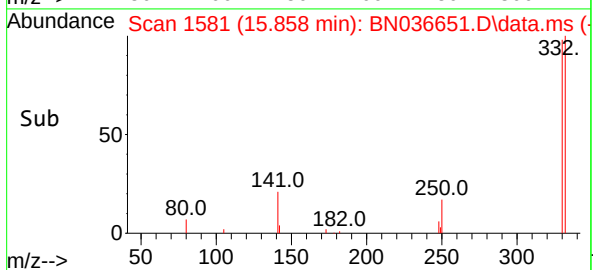
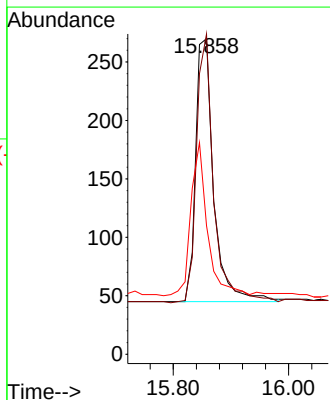
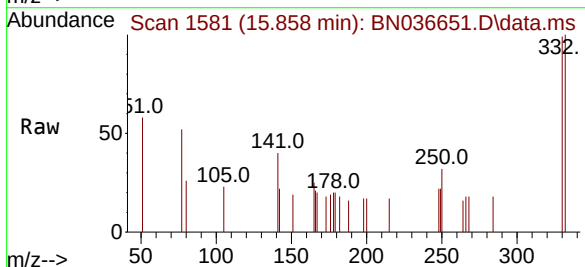
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

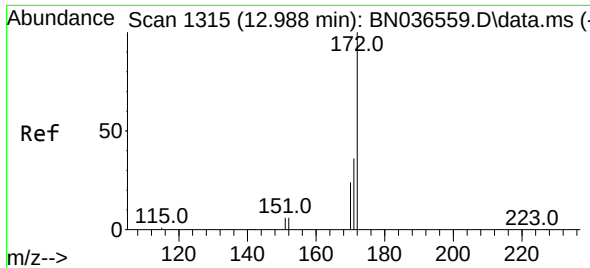
Tgt Ion:	164	Resp:	2968
Ion Ratio	Lower	Upper	
164	100		
162	104.4	84.2	126.2
160	53.0	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.363 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:	330	Resp:	489
Ion Ratio	Lower	Upper	
330	100		
332	98.2	75.2	112.8
141	53.4	43.4	65.2

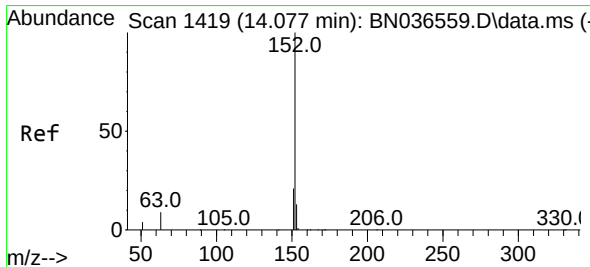
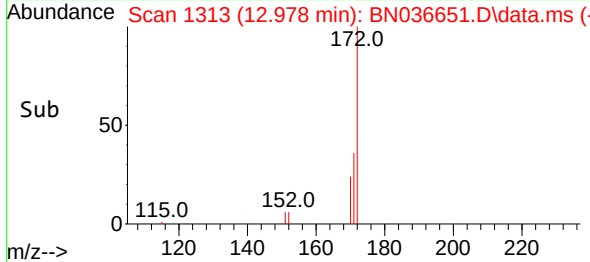
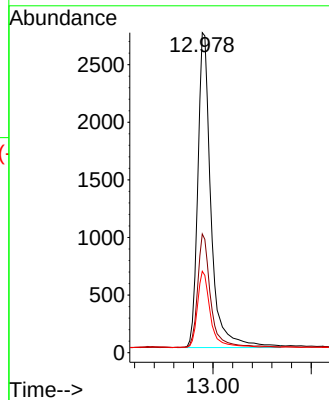
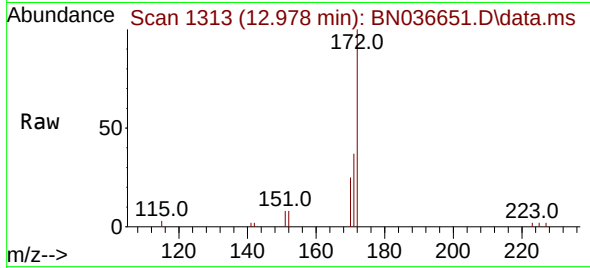




#15
2-Fluorobiphenyl
Concen: 0.417 ng
RT: 12.978 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

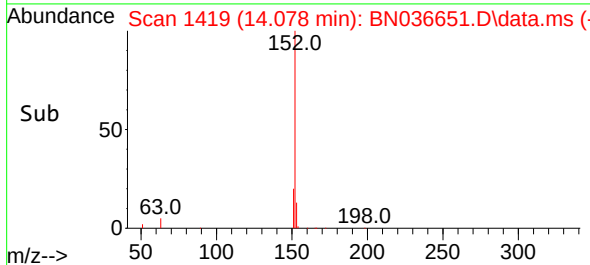
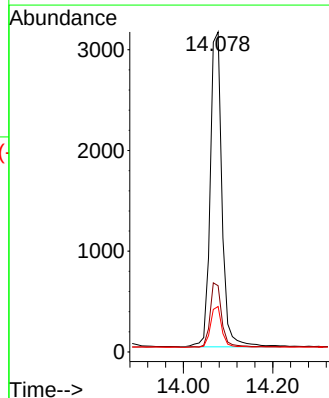
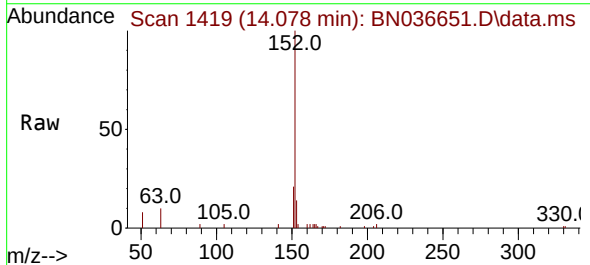
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

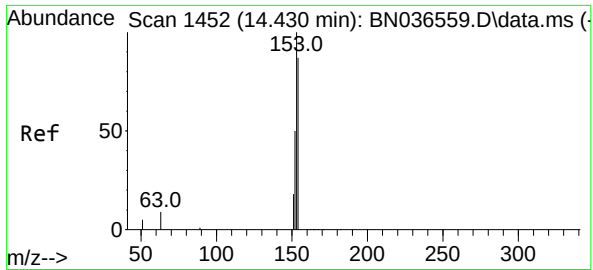
Tgt Ion:	172	Resp:	7207
Ion	Ratio	Lower	Upper
172	100		
171	37.1	29.5	44.3
170	25.5	20.2	30.4



#16
Acenaphthylene
Concen: 0.406 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:	152	Resp:	5688
Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.2	24.4
153	12.7	10.6	15.8

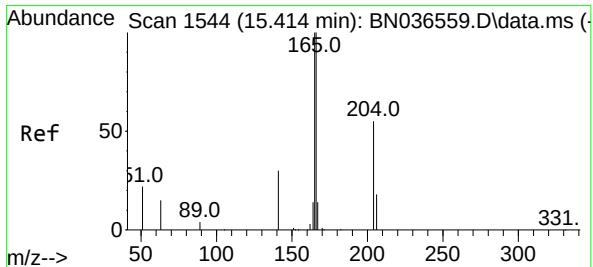
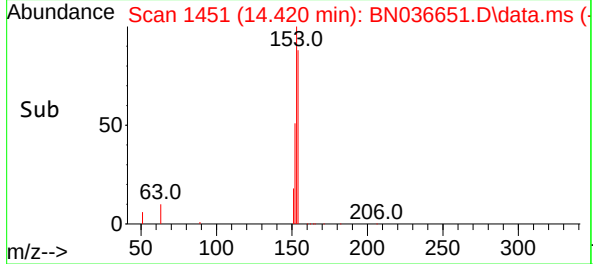
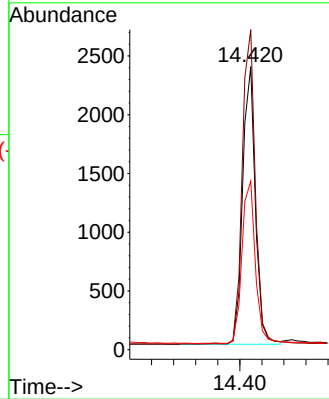
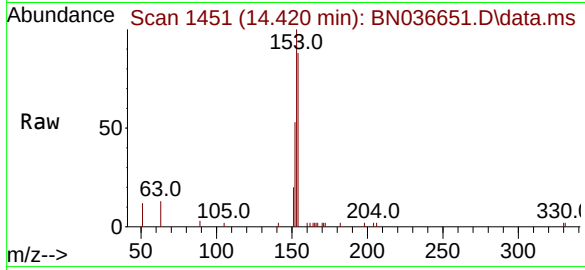




#17
Acenaphthene
Concen: 0.414 ng
RT: 14.420 min Scan# 1452
Delta R.T. -0.011 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

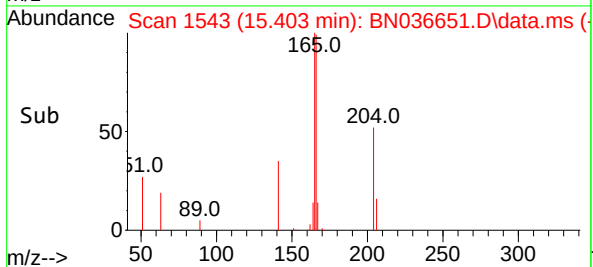
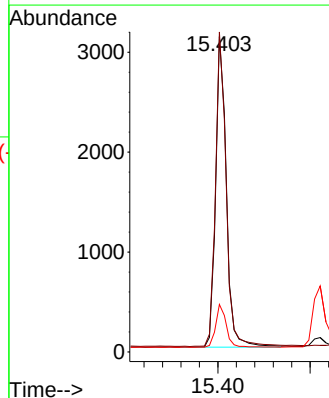
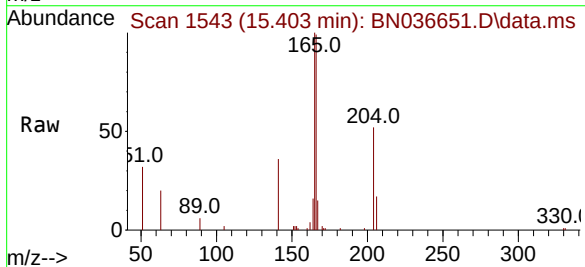
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

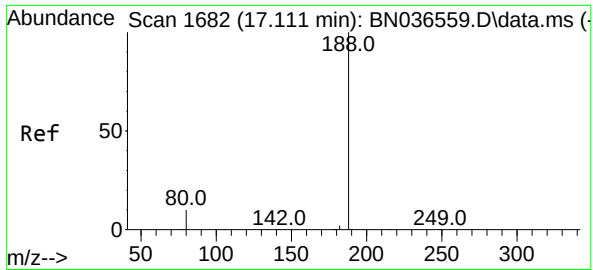
Tgt Ion:154 Resp: 3797
Ion Ratio Lower Upper
154 100
153 116.7 94.1 141.1
152 61.8 49.8 74.6



#18
Fluorene
Concen: 0.408 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.011 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:166 Resp: 5057
Ion Ratio Lower Upper
166 100
165 101.9 79.8 119.8
167 13.8 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN036651.D

Acq: 17 Mar 2025 09:49

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

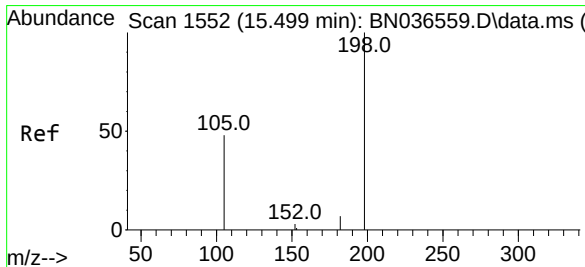
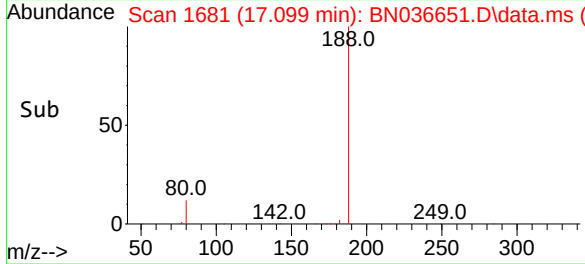
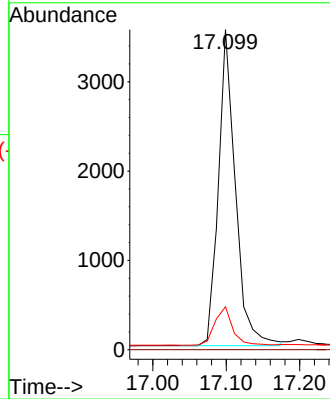
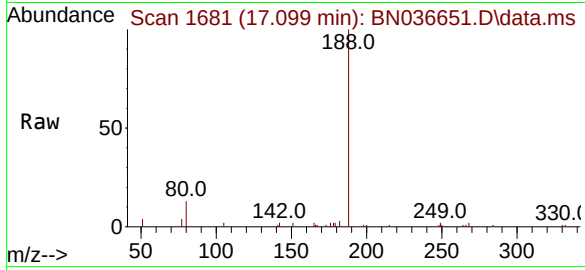
Tgt Ion:188 Resp: 5703

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.4 8.8 13.2#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.405 ng

RT: 15.499 min Scan# 1552

Delta R.T. 0.000 min

Lab File: BN036651.D

Acq: 17 Mar 2025 09:49

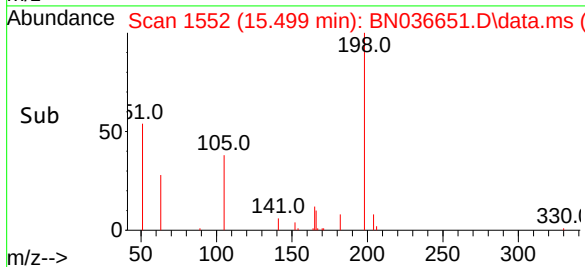
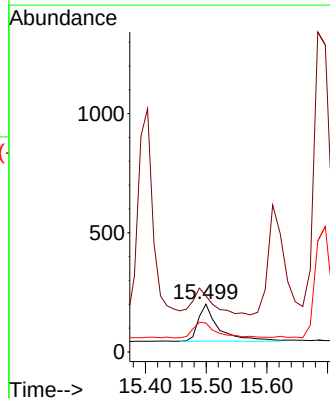
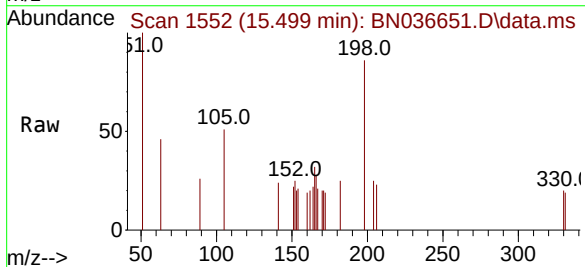
Tgt Ion:198 Resp: 377

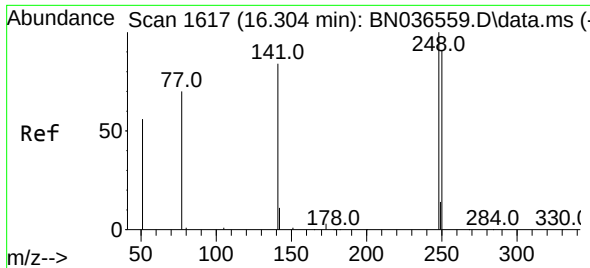
Ion Ratio Lower Upper

198 100

51 116.9 107.9 161.9

105 60.2 56.2 84.2

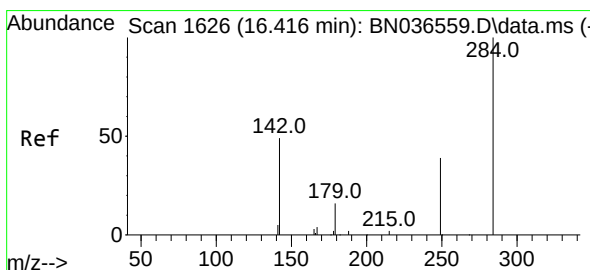
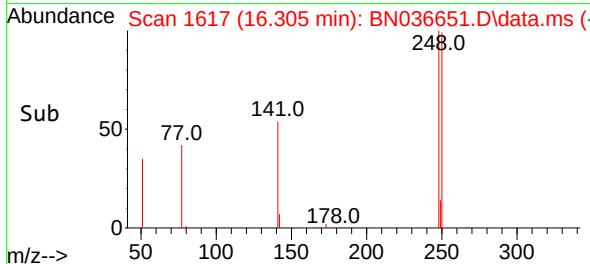
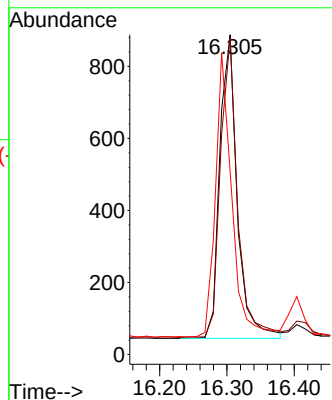
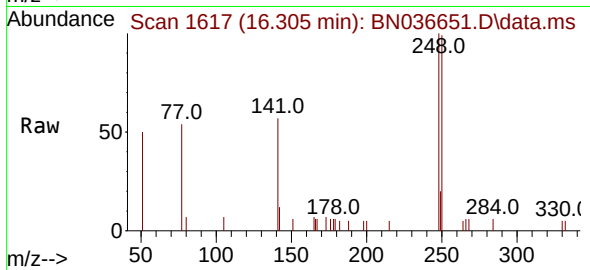




#21
4-Bromophenyl-phenylether
Concen: 0.424 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

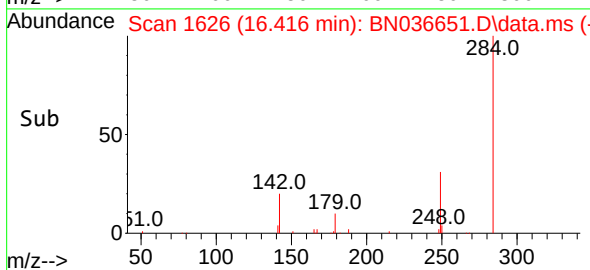
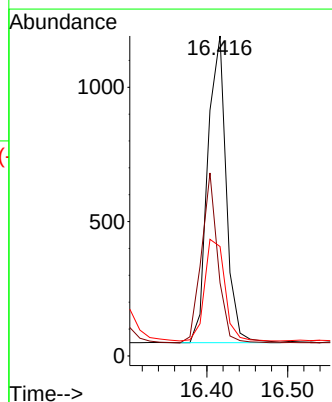
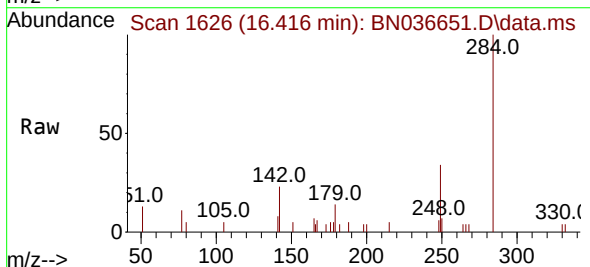
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

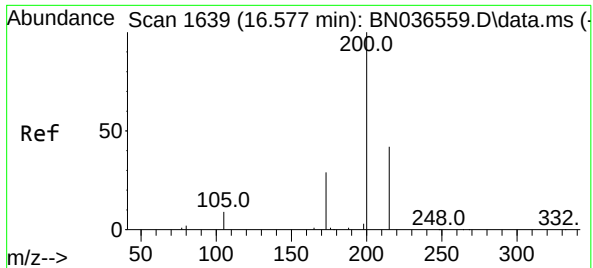
Tgt Ion:248 Resp: 1516
Ion Ratio Lower Upper
248 100
250 99.1 73.0 109.6
141 57.3 68.6 103.0#



#22
Hexachlorobenzene
Concen: 0.421 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:284 Resp: 1816
Ion Ratio Lower Upper
284 100
142 49.4 37.0 55.4
249 36.1 28.1 42.1

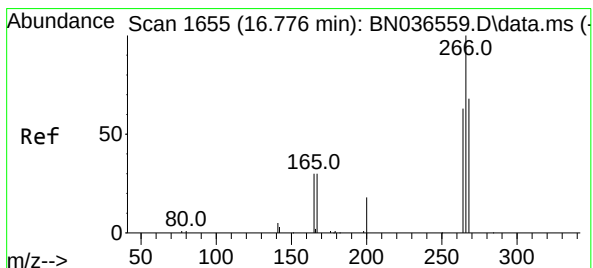
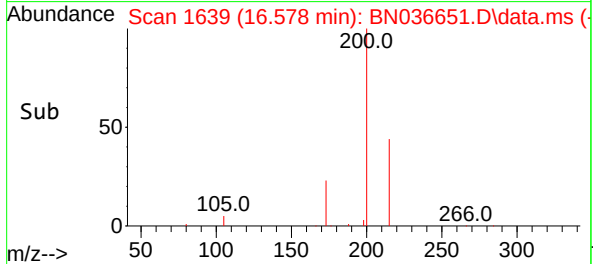
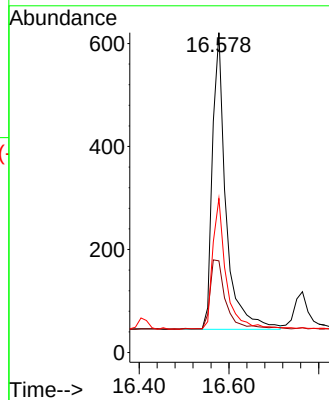
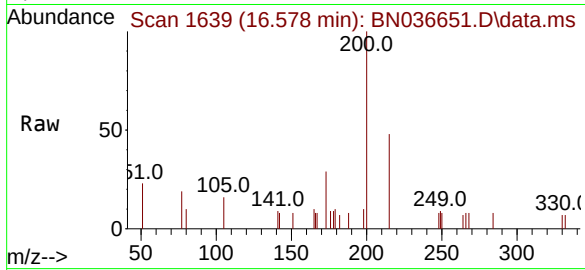




#23
Atrazine
Concen: 0.421 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

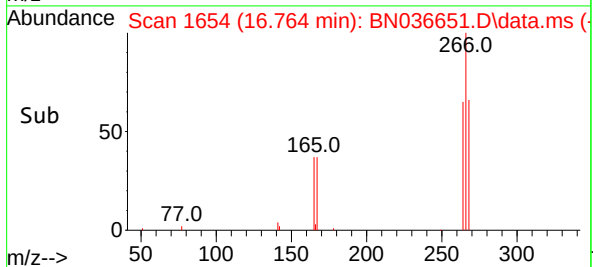
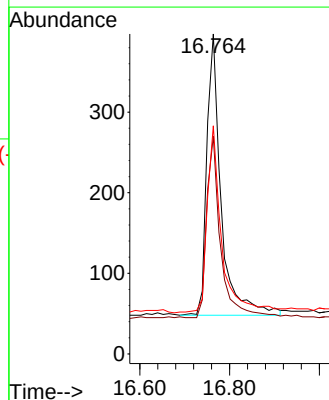
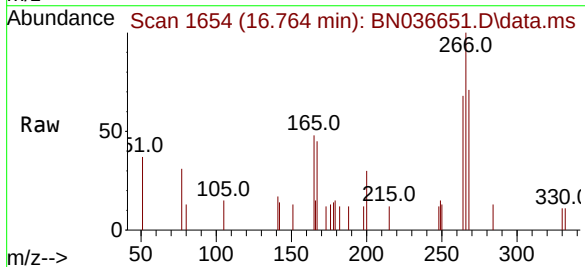
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

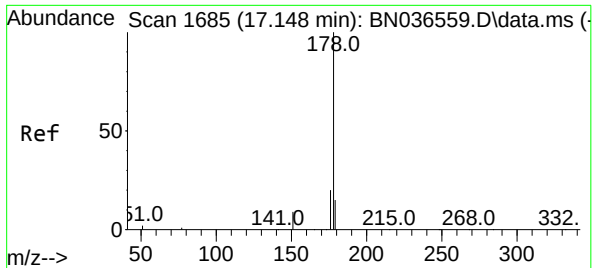
Tgt Ion:	200	Resp:	1206
Ion	Ratio	Lower	Upper
200	100		
173	28.7	27.3	40.9
215	48.1	36.8	55.2



#24
Pentachlorophenol
Concen: 0.392 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:	266	Resp:	772
Ion	Ratio	Lower	Upper
266	100		
264	62.6	49.6	74.4
268	66.8	50.9	76.3

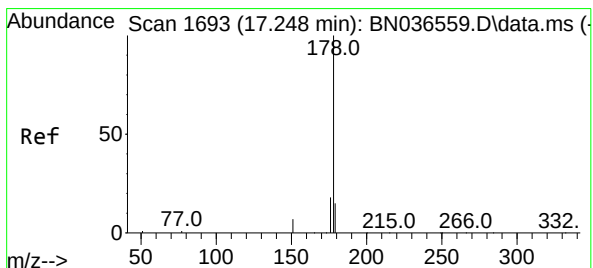
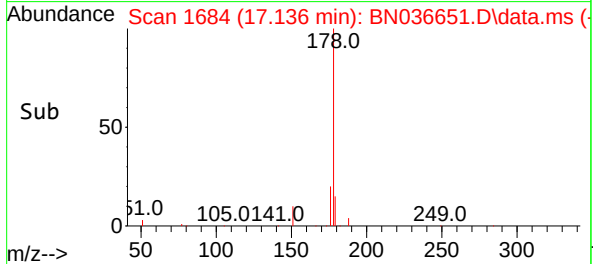
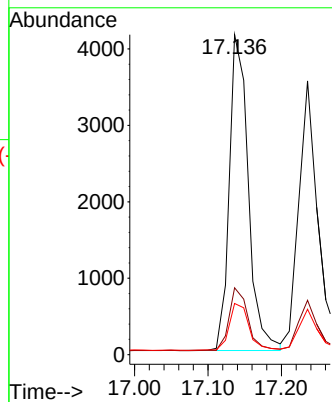
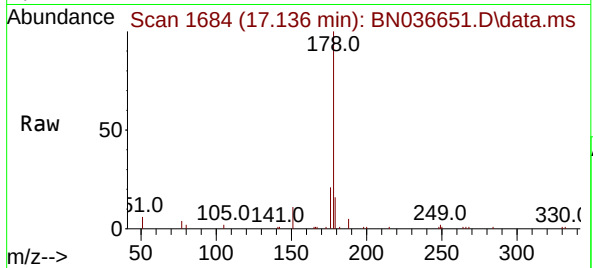




#25
Phenanthrene
Concen: 0.435 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.012 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

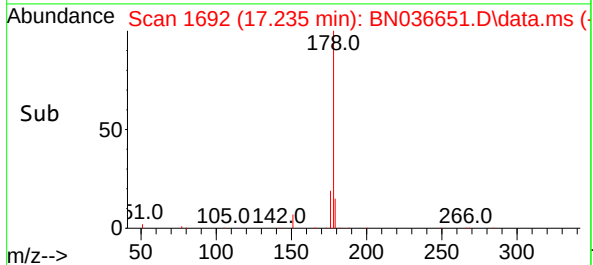
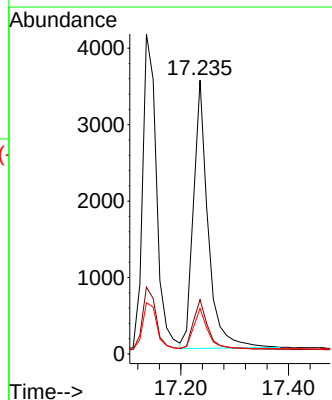
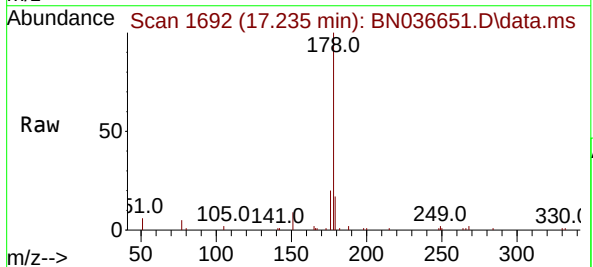
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

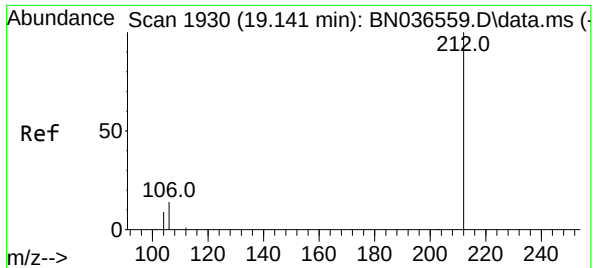
Tgt Ion:178 Resp: 7434
Ion Ratio Lower Upper
178 100
176 19.8 15.9 23.9
179 15.5 12.2 18.4



#26
Anthracene
Concen: 0.429 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:178 Resp: 6627
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 14.9 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.428 ng

RT: 19.136 min Scan# 1929

Delta R.T. -0.005 min

Lab File: BN036651.D

Acq: 17 Mar 2025 09:49

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

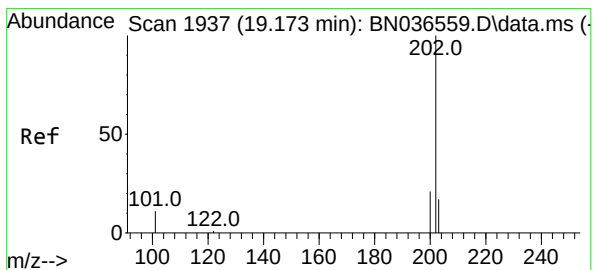
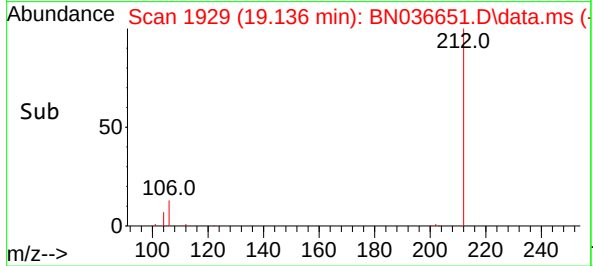
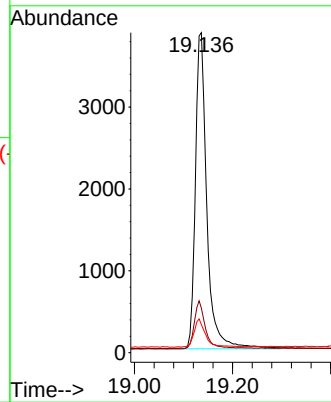
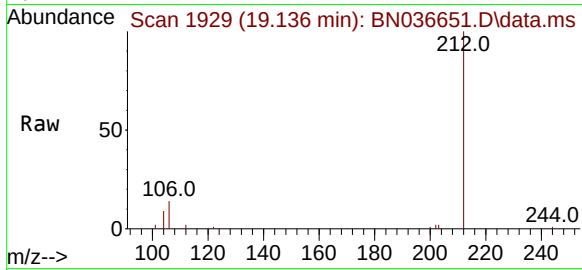
Tgt Ion:212 Resp: 6261

Ion Ratio Lower Upper

212 100

106 14.4 11.8 17.6

104 9.1 7.3 10.9



#28

Fluoranthene

Concen: 0.429 ng

RT: 19.164 min Scan# 1935

Delta R.T. -0.009 min

Lab File: BN036651.D

Acq: 17 Mar 2025 09:49

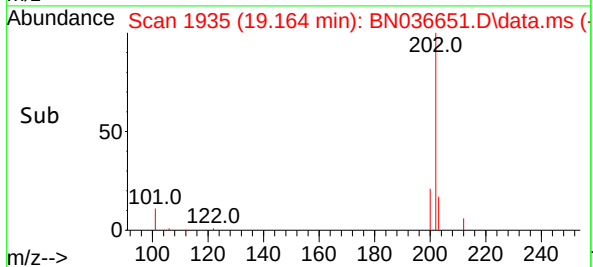
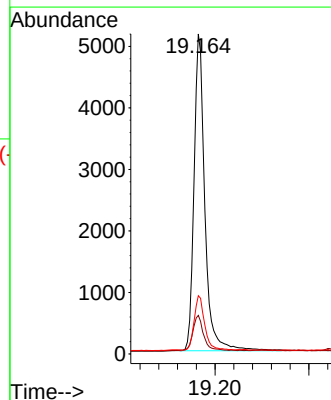
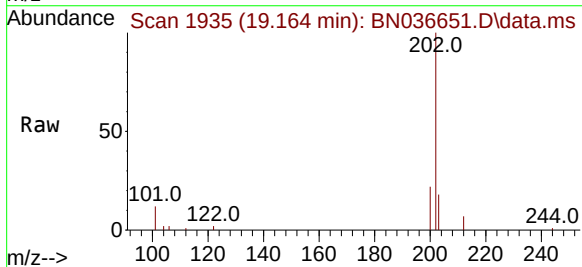
Tgt Ion:202 Resp: 8247

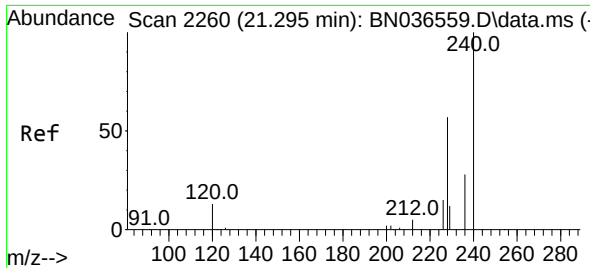
Ion Ratio Lower Upper

202 100

101 11.4 9.4 14.0

203 16.7 13.5 20.3

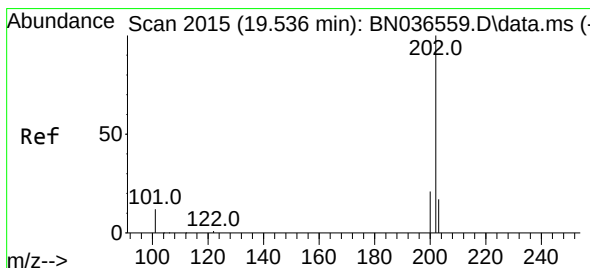
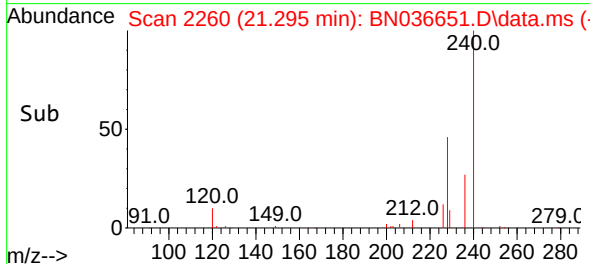
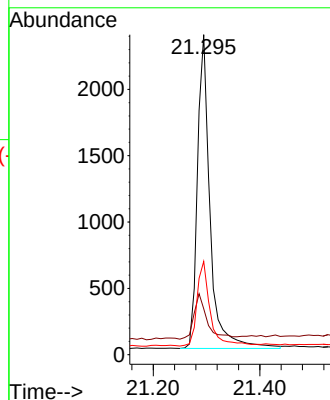
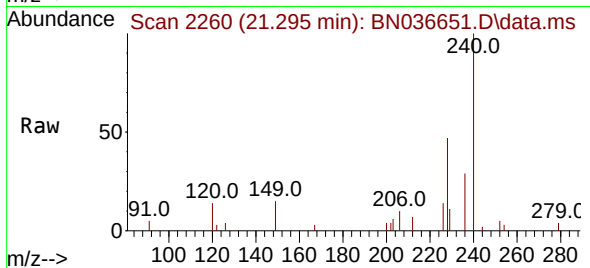




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

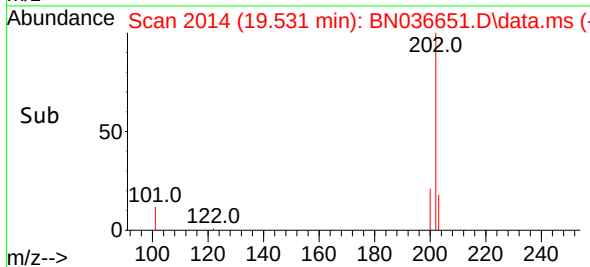
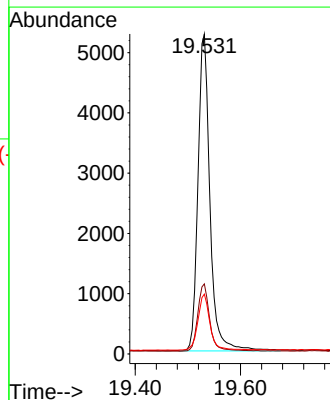
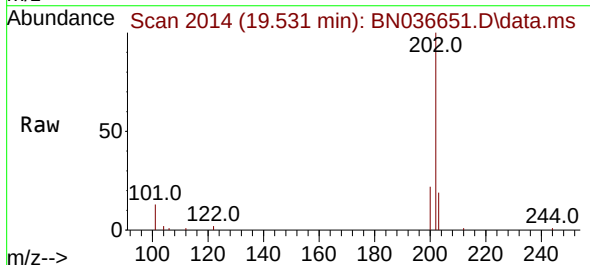
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

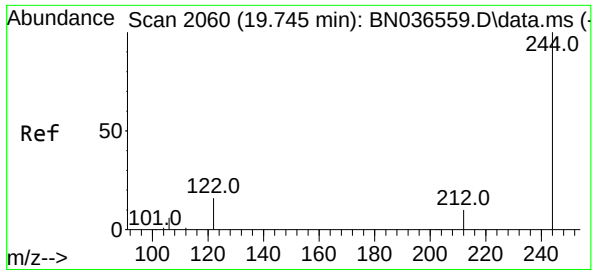
Tgt Ion:240 Resp: 3893
Ion Ratio Lower Upper
240 100
120 14.4 14.6 22.0#
236 29.1 24.1 36.1



#30
Pyrene
Concen: 0.437 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.004 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:202 Resp: 8317
Ion Ratio Lower Upper
202 100
200 21.2 17.1 25.7
203 17.9 14.1 21.1

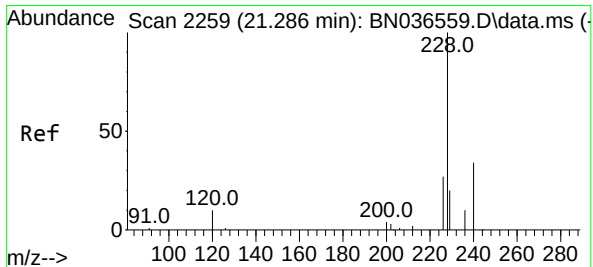
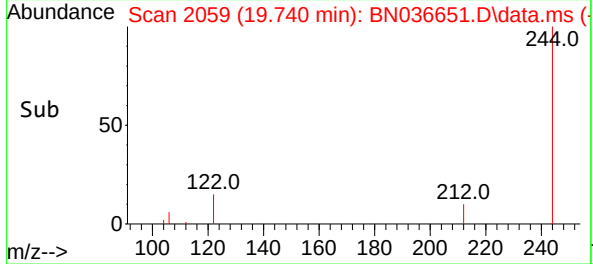
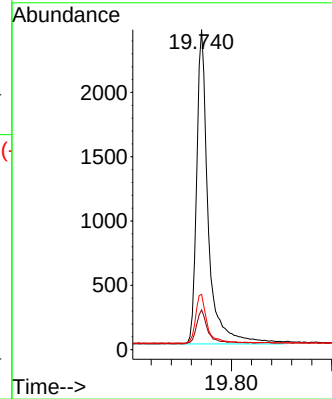
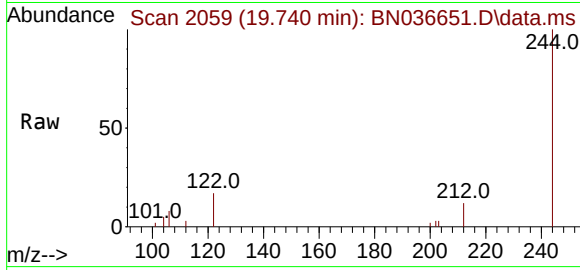




#31
Terphenyl-d14
Concen: 0.421 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

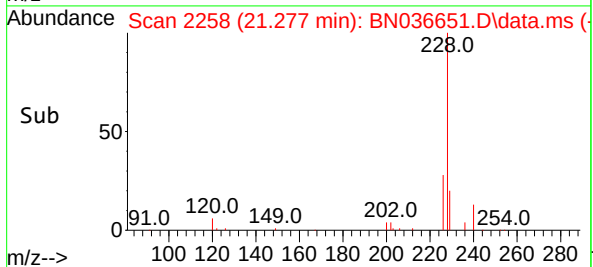
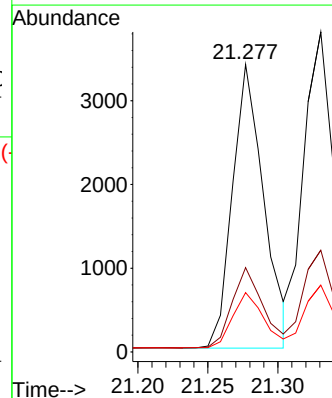
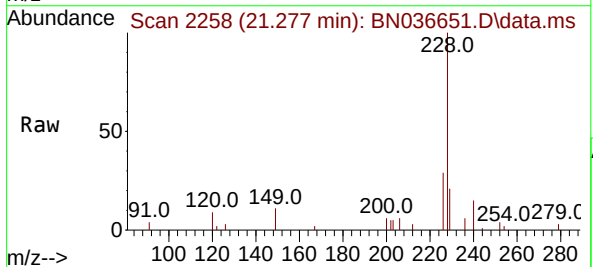
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

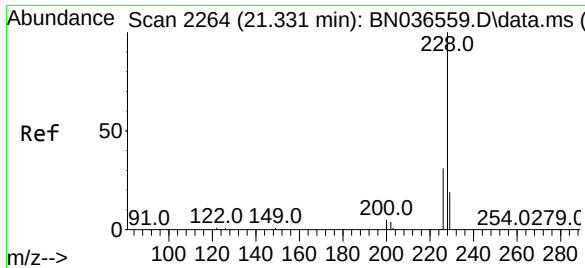
Tgt Ion:244 Resp: 3924
Ion Ratio Lower Upper
244 100
212 12.4 9.6 14.4
122 17.3 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.390 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:228 Resp: 5282
Ion Ratio Lower Upper
228 100
226 29.3 22.5 33.7
229 20.6 16.6 25.0





#33

Chrysene

Concen: 0.445 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036651.D

Acq: 17 Mar 2025 09:49

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

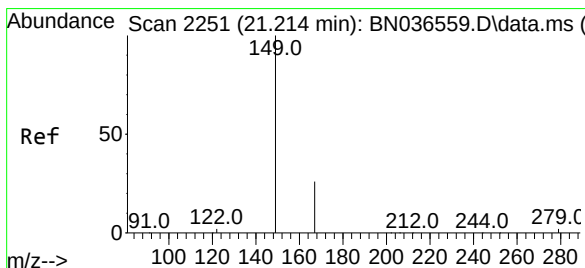
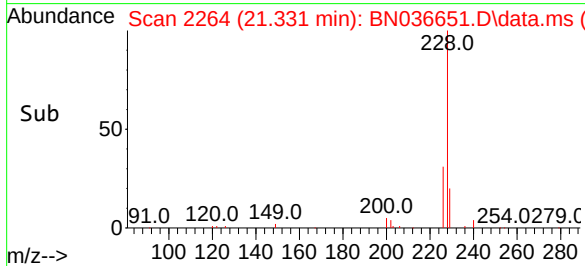
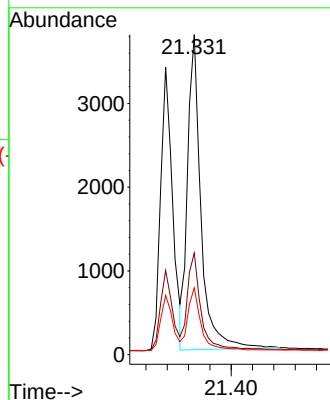
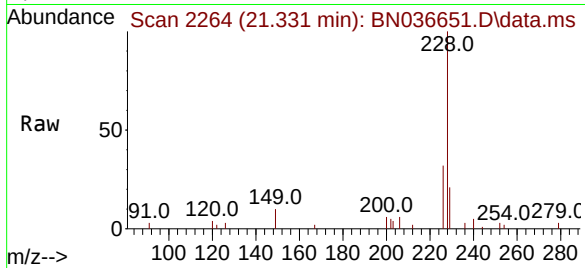
Tgt Ion:228 Resp: 6576

Ion Ratio Lower Upper

228 100

226 31.8 25.3 37.9

229 20.9 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.423 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036651.D

Acq: 17 Mar 2025 09:49

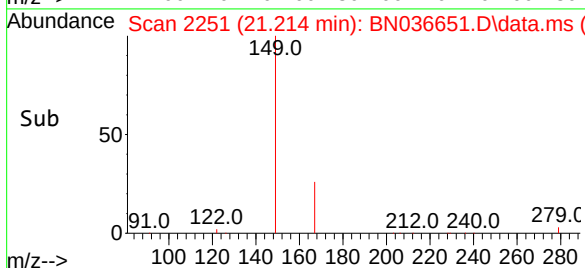
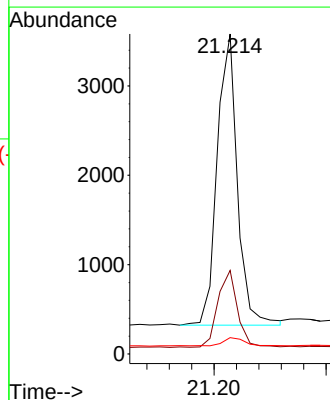
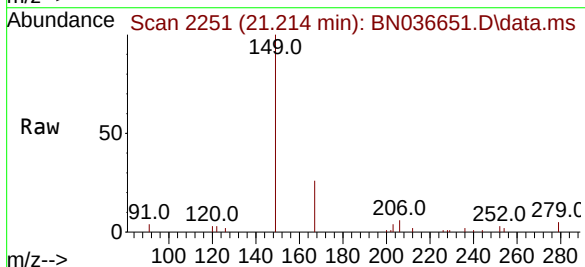
Tgt Ion:149 Resp: 4080

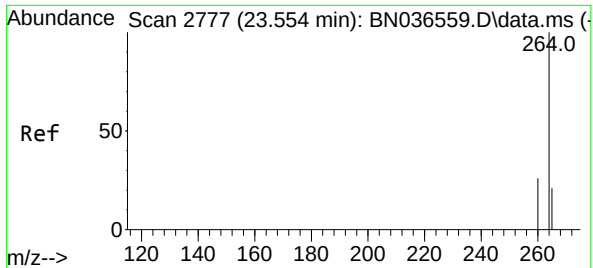
Ion Ratio Lower Upper

149 100

167 26.2 20.7 31.1

279 3.0 3.6 5.4#

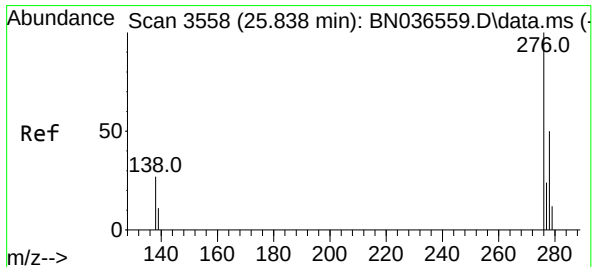
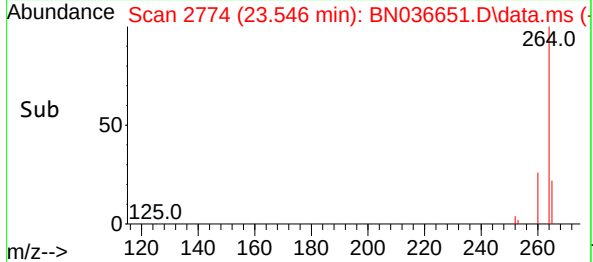
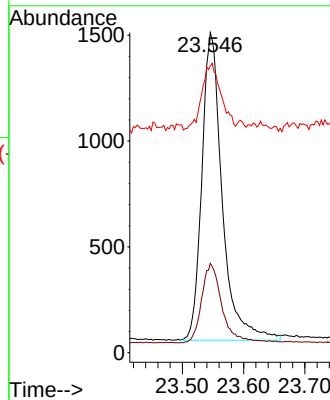
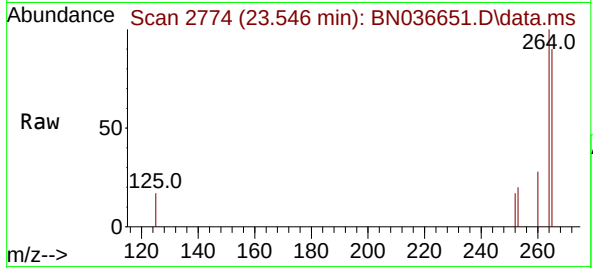




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.546 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

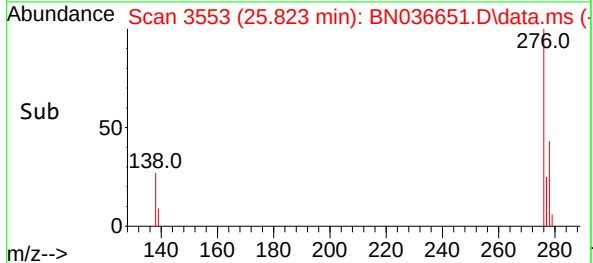
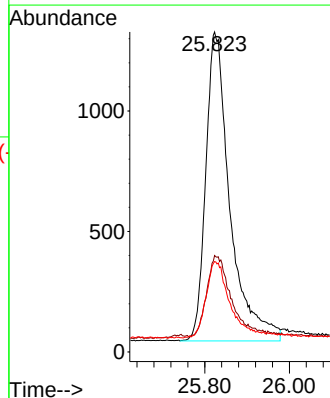
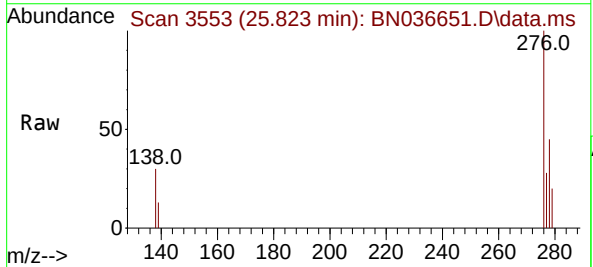
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

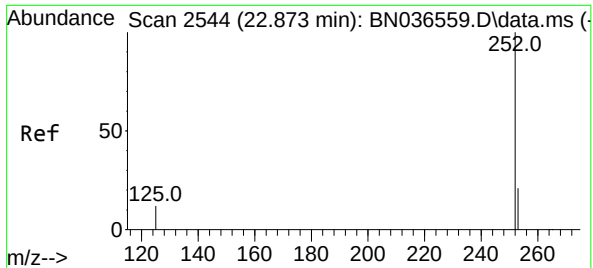
Tgt Ion:	264	Resp:	3363
Ion Ratio	Lower	Upper	
264	100		
260	27.9	22.6	33.8
265	89.6	88.1	132.1



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.419 ng
RT: 25.823 min Scan# 3553
Delta R.T. -0.014 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:	276	Resp:	5084
Ion Ratio	Lower	Upper	
276	100		
138	26.7	23.4	35.2
277	24.4	20.0	30.0





#37

Benzo(b)fluoranthene

Concen: 0.436 ng

RT: 22.870 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036651.D

Acq: 17 Mar 2025 09:49

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

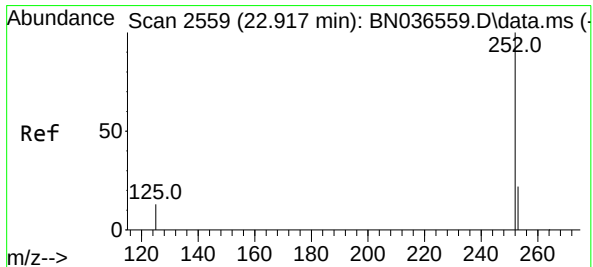
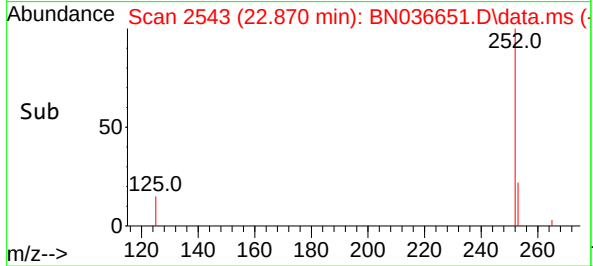
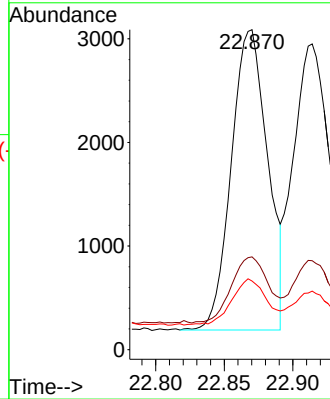
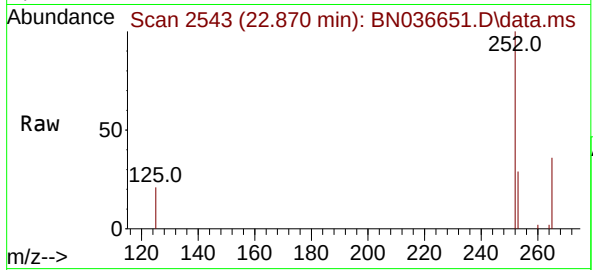
Tgt Ion:252 Resp: 5332

Ion Ratio Lower Upper

252 100

253 29.0 23.9 35.9

125 21.4 17.4 26.2



#38

Benzo(k)fluoranthene

Concen: 0.430 ng

RT: 22.914 min Scan# 2558

Delta R.T. -0.003 min

Lab File: BN036651.D

Acq: 17 Mar 2025 09:49

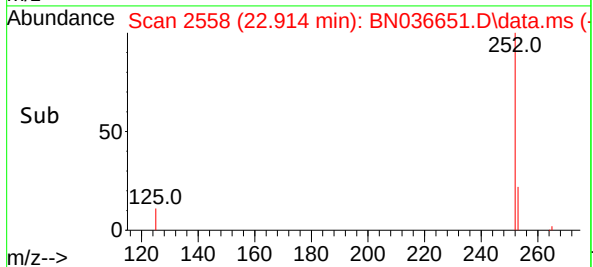
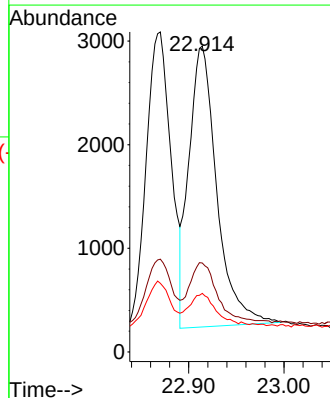
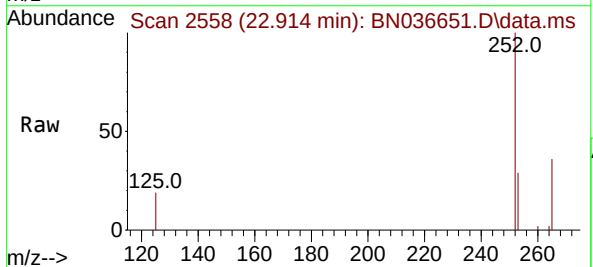
Tgt Ion:252 Resp: 5516

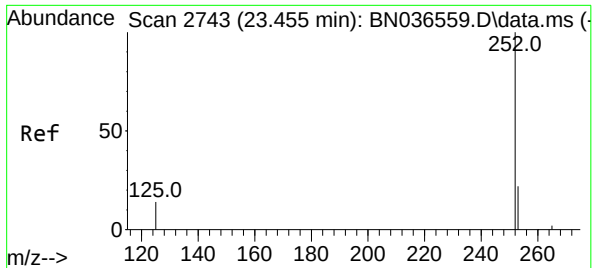
Ion Ratio Lower Upper

252 100

253 29.1 24.6 36.8

125 19.1 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.440 ng

RT: 23.449 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036651.D

Acq: 17 Mar 2025 09:49

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

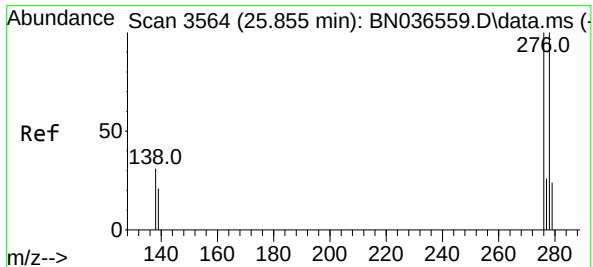
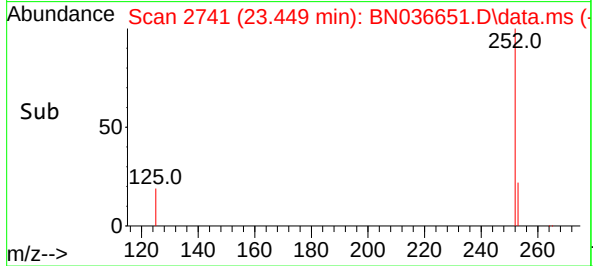
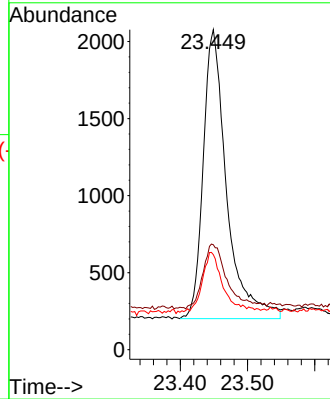
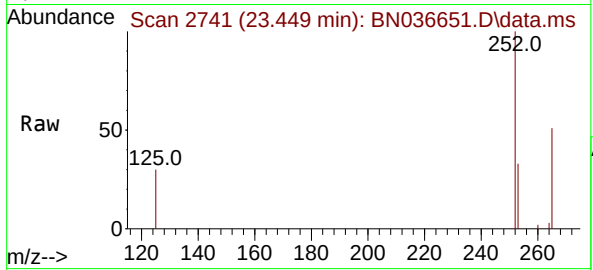
Tgt Ion:252 Resp: 4533

Ion Ratio Lower Upper

252 100

253 32.8 27.8 41.8

125 29.7 22.7 34.1



#40

Dibenzo(a,h)anthracene

Concen: 0.409 ng

RT: 25.841 min Scan# 3559

Delta R.T. -0.014 min

Lab File: BN036651.D

Acq: 17 Mar 2025 09:49

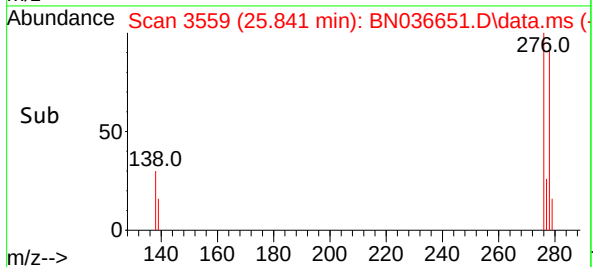
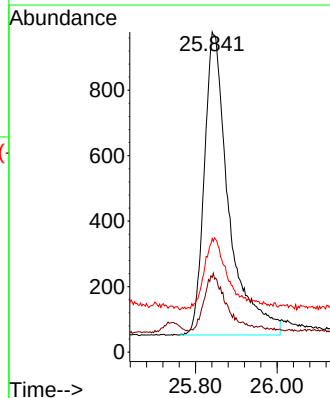
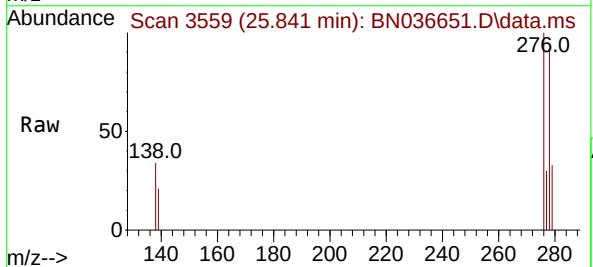
Tgt Ion:278 Resp: 3865

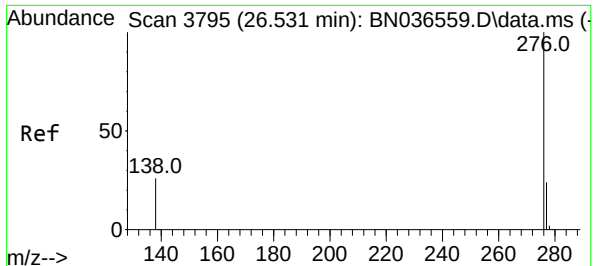
Ion Ratio Lower Upper

278 100

139 23.3 20.8 31.2

279 35.5 28.8 43.2





#41

Benzo(g,h,i)perylene

Concen: 0.424 ng

RT: 26.516 min Scan# 31

Delta R.T. -0.014 min

Lab File: BN036651.D

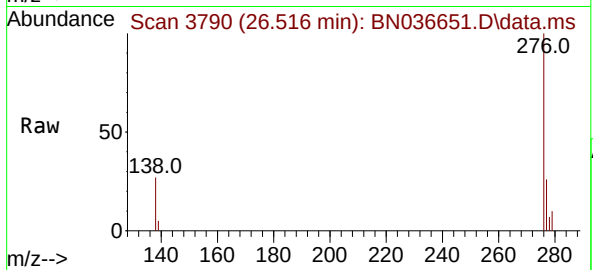
Acq: 17 Mar 2025 09:49

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



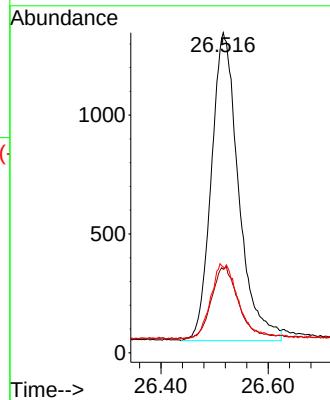
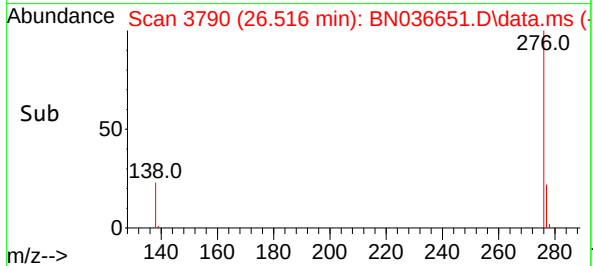
Tgt Ion:276 Resp: 4584

Ion Ratio Lower Upper

276 100

277 26.1 22.2 33.4

138 26.8 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036651.D
Acq On : 17 Mar 2025 09:49
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 17 12:11:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	93	0.00
2	1,4-Dioxane	0.444	0.497	-11.9	93	0.00
3	n-Nitrosodimethylamine	0.898	0.986	-9.8	99	0.00
4 S	2-Fluorophenol	0.932	0.906	2.8	86	0.00
5 S	Phenol-d6	1.152	1.101	4.4	91	-0.01
6	bis(2-Chloroethyl)ether	1.190	1.183	0.6	94	-0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	99	-0.01
8 S	Nitrobenzene-d5	0.435	0.424	2.5	101	-0.01
9	Naphthalene	1.177	1.200	-2.0	98	-0.01
10	Hexachlorobutadiene	0.277	0.285	-2.9	96	-0.01
11 SURR	2-Methylnaphthalene-d10	0.595	0.593	0.3	97	-0.02
12	2-Methylnaphthalene	0.749	0.759	-1.3	98	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	98	-0.01
14 S	2,4,6-Tribromophenol	0.182	0.165	9.3	86	0.00
15 S	2-Fluorobiphenyl	2.327	2.428	-4.3	99	0.00
16	Acenaphthylene	1.888	1.916	-1.5	97	0.00
17	Acenaphthene	1.236	1.279	-3.5	98	-0.01
18	Fluorene	1.672	1.704	-1.9	95	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	95	-0.01
20	4,6-Dinitro-2-methylphenol	0.086	0.066	23.3	82	0.00
21	4-Bromophenyl-phenylether	0.251	0.266	-6.0	92	0.00
22	Hexachlorobenzene	0.303	0.318	-5.0	90	0.00
23	Atrazine	0.201	0.211	-5.0	94	0.00
24	Pentachlorophenol	0.138	0.135	2.2	94	-0.01
25	Phenanthrene	1.200	1.304	-8.7	95	-0.01
26	Anthracene	1.083	1.162	-7.3	96	-0.01
27 SURR	Fluoranthene-d10	1.025	1.098	-7.1	93	0.00
28	Fluoranthene	1.348	1.446	-7.3	95	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	95	0.00
30	Pyrene	1.956	2.136	-9.2	95	0.00
31 S	Terphenyl-d14	0.958	1.008	-5.2	93	0.00
32	Benzo(a)anthracene	1.391	1.357	2.4	89	0.00
33	Chrysene	1.520	1.689	-11.1	99	0.00
34	Bis(2-ethylhexyl)phthalate	0.990	1.048	-5.9	95	0.00
35 I	Perylene-d12	1.000	1.000	0.0	95	0.00
36	Indeno(1,2,3-cd)pyrene	1.444	1.512	-4.7	93	-0.01
37	Benzo(b)fluoranthene	1.456	1.585	-8.9	97	0.00
38	Benzo(k)fluoranthene	1.527	1.640	-7.4	96	0.00
39 C	Benzo(a)pyrene	1.226	1.348	-10.0	98	0.00
40	Dibenzo(a,h)anthracene	1.124	1.149	-2.2	94	-0.01
41	Benzo(g,h,i)perylene	1.286	1.363	-6.0	94	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036651.D
Acq On : 17 Mar 2025 09:49
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 17 12:11:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	93	0.00
2	1,4-Dioxane	0.400	0.448	-12.0	93	0.00
3	n-Nitrosodimethylamine	0.400	0.440	-10.0	99	0.00
4 S	2-Fluorophenol	0.400	0.389	2.8	86	0.00
5 S	Phenol-d6	0.400	0.382	4.5	91	-0.01
6	bis(2-Chloroethyl)ether	0.400	0.398	0.5	94	-0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	99	-0.01
8 S	Nitrobenzene-d5	0.400	0.390	2.5	101	-0.01
9	Naphthalene	0.400	0.408	-2.0	98	-0.01
10	Hexachlorobutadiene	0.400	0.412	-3.0	96	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.399	0.3	97	-0.02
12	2-Methylnaphthalene	0.400	0.405	-1.3	98	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	98	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.363	9.3	86	0.00
15 S	2-Fluorobiphenyl	0.400	0.417	-4.2	99	0.00
16	Acenaphthylene	0.400	0.406	-1.5	97	0.00
17	Acenaphthene	0.400	0.414	-3.5	98	-0.01
18	Fluorene	0.400	0.408	-2.0	95	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	95	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.405	-1.3	82	0.00
21	4-Bromophenyl-phenylether	0.400	0.424	-6.0	92	0.00
22	Hexachlorobenzene	0.400	0.421	-5.2	90	0.00
23	Atrazine	0.400	0.421	-5.2	94	0.00
24	Pentachlorophenol	0.400	0.392	2.0	94	-0.01
25	Phenanthrene	0.400	0.435	-8.7	95	-0.01
26	Anthracene	0.400	0.429	-7.2	96	-0.01
27 SURR	Fluoranthene-d10	0.400	0.428	-7.0	93	0.00
28	Fluoranthene	0.400	0.429	-7.2	95	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	95	0.00
30	Pyrene	0.400	0.437	-9.2	95	0.00
31 S	Terphenyl-d14	0.400	0.421	-5.2	93	0.00
32	Benzo(a)anthracene	0.400	0.390	2.5	89	0.00
33	Chrysene	0.400	0.445	-11.2	99	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.423	-5.7	95	0.00
35 I	Perylene-d12	0.400	0.400	0.0	95	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.419	-4.7	93	-0.01
37	Benzo(b)fluoranthene	0.400	0.436	-9.0	97	0.00
38	Benzo(k)fluoranthene	0.400	0.430	-7.5	96	0.00
39 C	Benzo(a)pyrene	0.400	0.440	-10.0	98	0.00
40	Dibenzo(a,h)anthracene	0.400	0.409	-2.2	94	-0.01
41	Benzo(g,h,i)perylene	0.400	0.424	-6.0	94	-0.01

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG No.: Q1582

Instrument ID: BNA_N Calibration Date/Time: 03/17/2025 19:08

Lab File ID: BN036666.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.595		0.0	50.0
Fluoranthene-d10	1.025	1.103		7.6	50.0
2-Fluorophenol	0.932	0.954		2.4	50.0
Phenol-d6	1.152	1.135		-1.5	50.0
Nitrobenzene-d5	0.435	0.398		-8.5	50.0
2-Fluorobiphenyl	2.327	2.343		0.7	50.0
2,4,6-Tribromophenol	0.182	0.187		2.7	50.0
Terphenyl-d14	0.958	0.991		3.4	50.0
1,4-Dioxane	0.444	0.534		20.3	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
 Data File : BN036666.D
 Acq On : 17 Mar 2025 19:08
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 03/18/2025
 Supervised By :Jagrut Upadhyay 03/18/2025

Quant Time: Mar 18 00:55:25 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1400	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	3548	0.400	ng	-0.01
13) Acenaphthene-d10	14.356	164	2067	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	4004	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	2784	0.400	ng	0.00
35) Perylene-d12	23.549	264	2401	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	1336	0.409	ng	0.00
5) Phenol-d6	6.887	99	1589	0.394	ng	-0.01
8) Nitrobenzene-d5	8.865	82	1411	0.366	ng	-0.01
11) 2-Methylnaphthalene-d10	12.101	152	2112	0.400	ng	-0.01
14) 2,4,6-Tribromophenol	15.858	330	387	0.413	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	4842	0.403	ng	0.00
27) Fluoranthene-d10	19.136	212	4416	0.430	ng	0.00
31) Terphenyl-d14	19.740	244	2760	0.414	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.239	88	747	0.481	ng	97
3) n-Nitrosodimethylamine	3.550	42	1500	0.477	ng	88
6) bis(2-Chloroethyl)ether	7.139	93	1583	0.380	ng	98
9) Naphthalene	10.552	128	4134	0.396	ng	98
10) Hexachlorobutadiene	10.840	225	1029	0.419	ng	# 98
12) 2-Methylnaphthalene	12.172	142	2633	0.396	ng	95
16) Acenaphthylene	14.078	152	4009	0.411	ng	100
17) Acenaphthene	14.420	154	2697	0.422	ng	99
18) Fluorene	15.403	166	3637	0.421	ng	99
20) 4,6-Dinitro-2-methylph...	15.499	198	285	0.424	ng	94
21) 4-Bromophenyl-phenylether	16.305	248	1057	0.421	ng	# 83
22) Hexachlorobenzene	16.416	284	1345	0.444	ng	94
23) Atrazine	16.578	200	916	0.455	ng	97
24) Pentachlorophenol	16.764	266	582	0.421	ng	97
25) Phenanthrene	17.136	178	5204	0.433	ng	99
26) Anthracene	17.235	178	4660	0.430	ng	99
28) Fluoranthene	19.164	202	5887	0.436	ng	98
30) Pyrene	19.527	202	5967	0.438	ng	100
32) Benzo(a)anthracene	21.277	228	3762	0.389	ng	99
33) Chrysene	21.331	228	4705	0.445	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	3084	0.447	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.826	276	3581	0.413	ng	# 94
37) Benzo(b)fluoranthene	22.870	252	3818m	0.437	ng	
38) Benzo(k)fluoranthene	22.914	252	4020m	0.439	ng	
39) Benzo(a)pyrene	23.449	252	3280	0.446	ng	# 87
40) Dibenzo(a,h)anthracene	25.849	278	2826	0.419	ng	95
41) Benzo(g,h,i)perylene	26.519	276	3263	0.423	ng	99

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

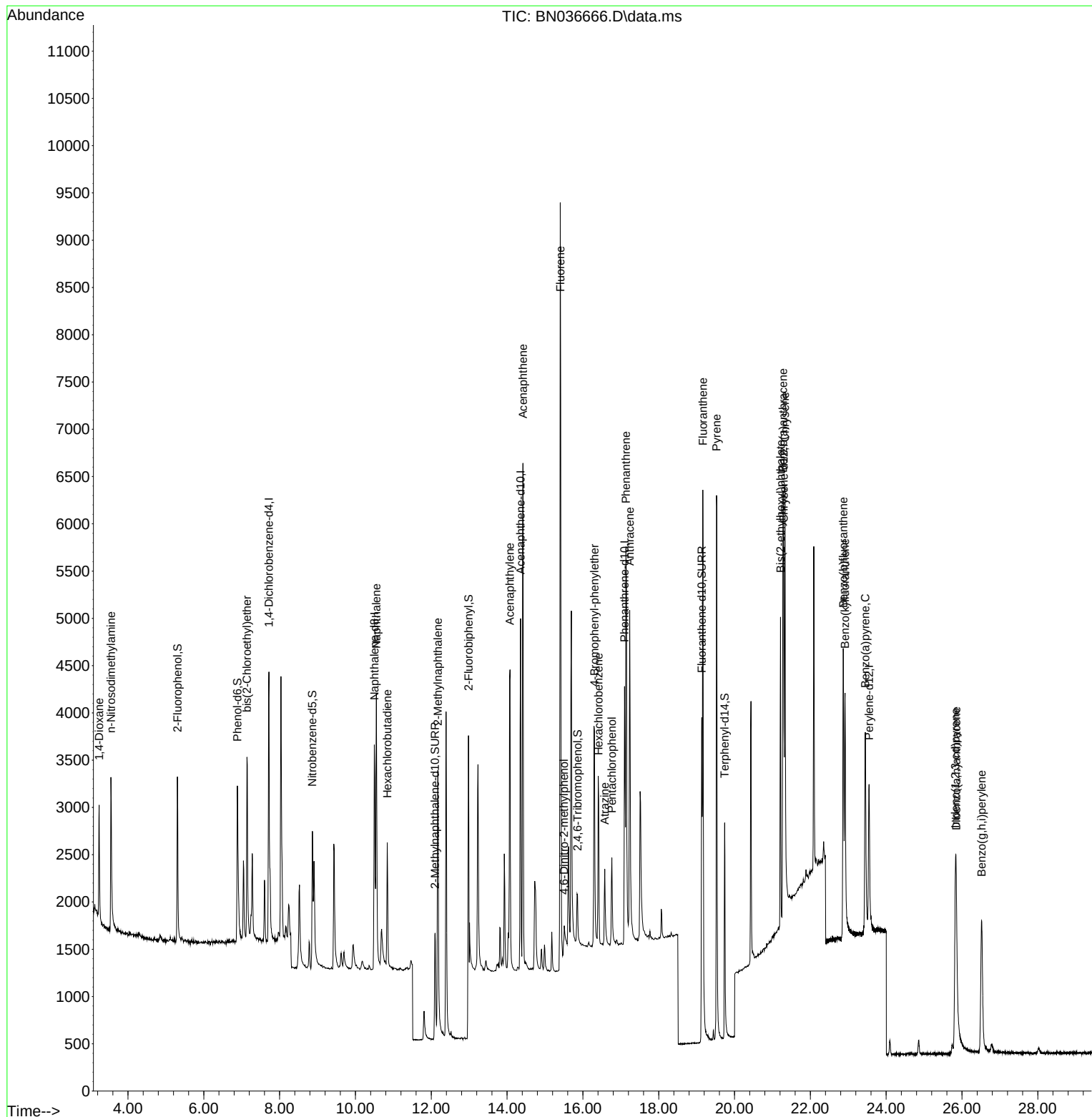
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036666.D
Acq On : 17 Mar 2025 19:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 17 Sample Multiplier: 1

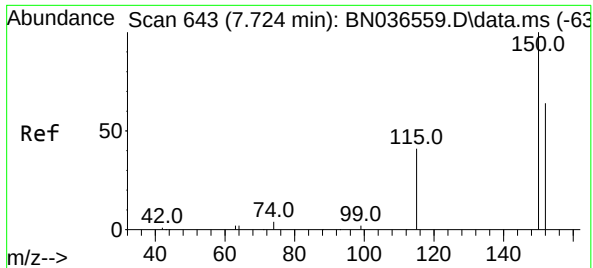
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 18 00:55:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

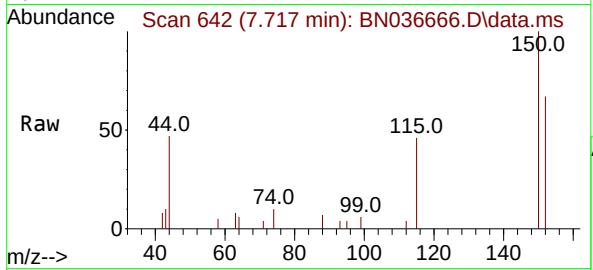
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

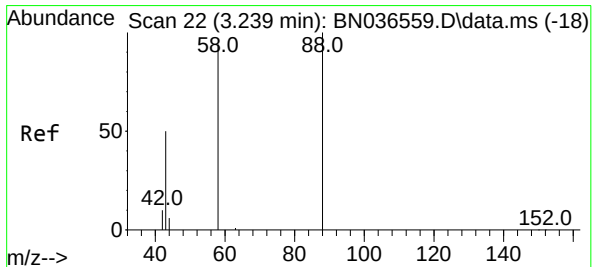
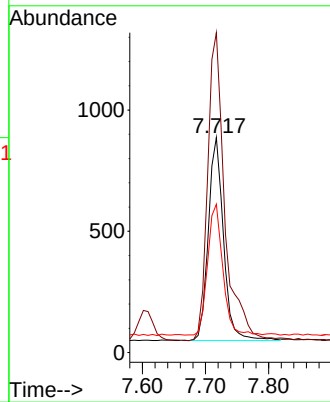
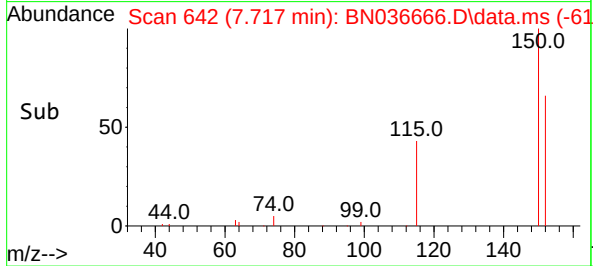
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



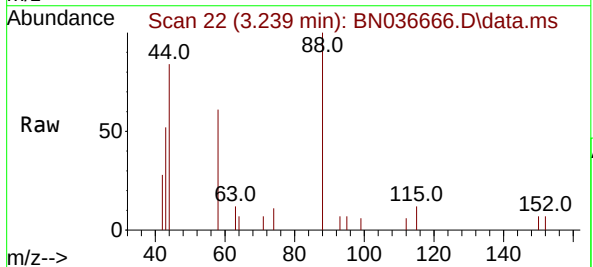
Tgt Ion:152 Resp: 1400
Ion Ratio Lower Upper
152 100
150 148.7 123.7 185.5
115 69.0 54.3 81.5

Manual Integrations
APPROVED

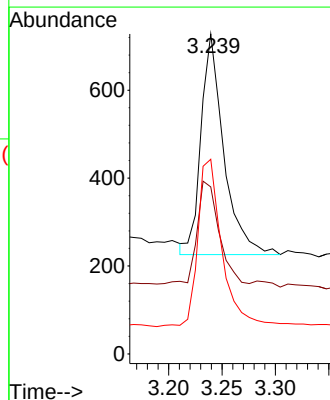
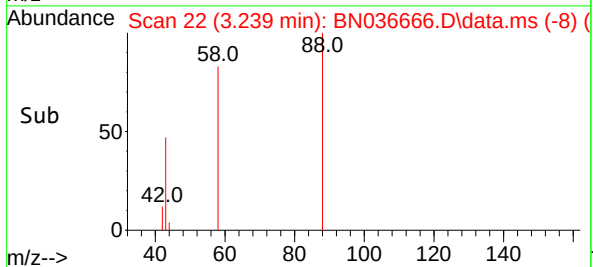
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

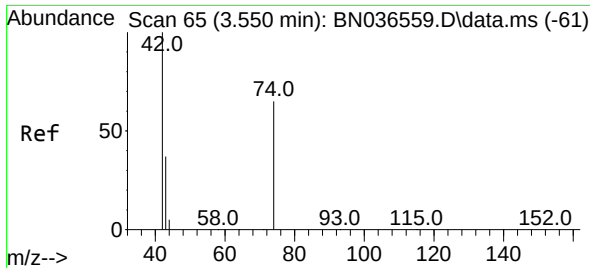


#2
1,4-Dioxane
Concen: 0.481 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08



Tgt Ion: 88 Resp: 747
Ion Ratio Lower Upper
88 100
43 46.2 37.8 56.8
58 80.9 67.4 101.2





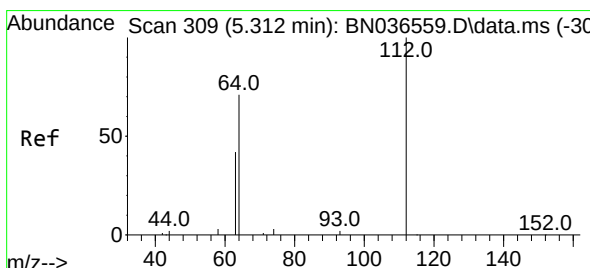
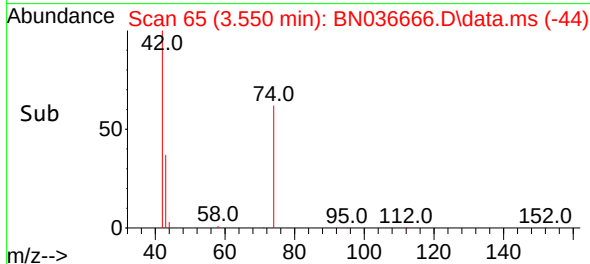
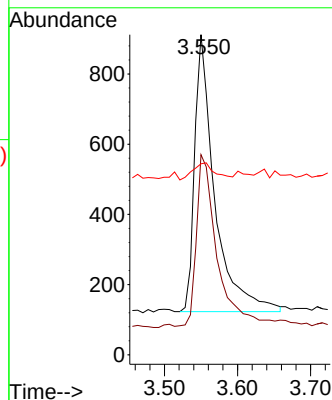
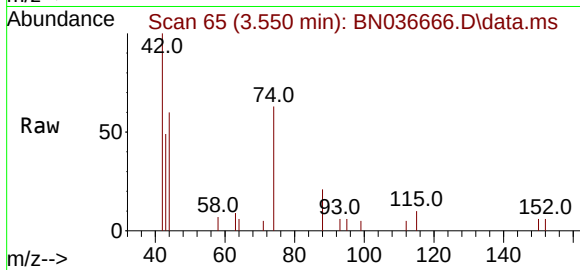
#3
n-Nitrosodimethylamine
Concen: 0.477 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1500
Ion Ratio Lower Upper
42 100
74 65.0 60.6 90.8
44 6.9 6.3 9.5

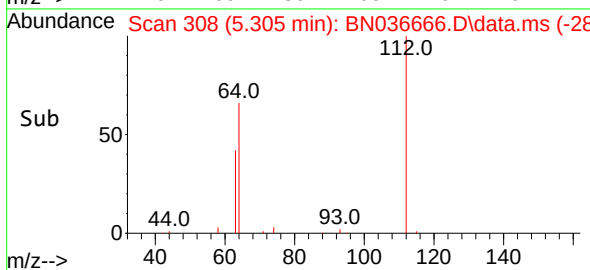
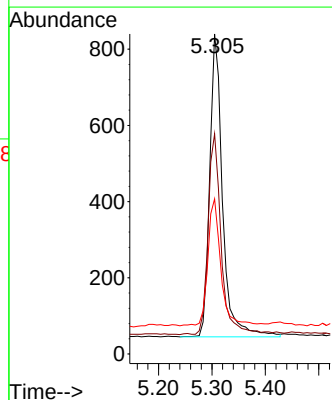
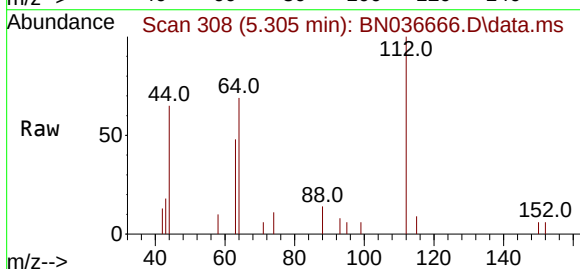
Manual Integrations
APPROVED

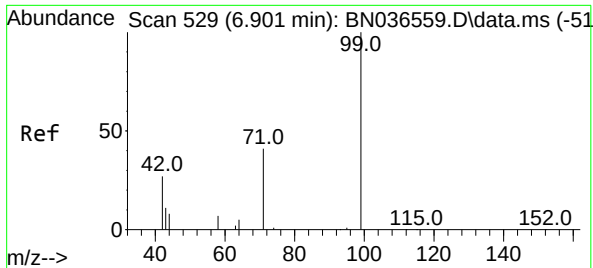
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#4
2-Fluorophenol
Concen: 0.409 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.007 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

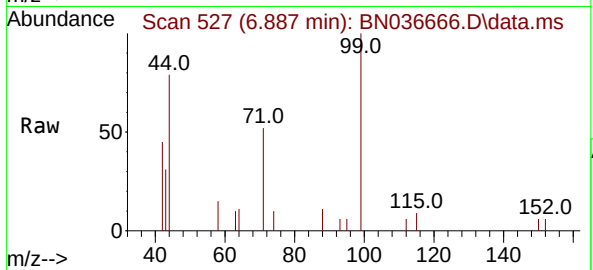
Tgt Ion:112 Resp: 1336
Ion Ratio Lower Upper
112 100
64 68.0 53.1 79.7
63 43.6 31.8 47.8





#5
Phenol-d6
Concen: 0.394 ng
RT: 6.887 min Scan# 51
Delta R.T. -0.014 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

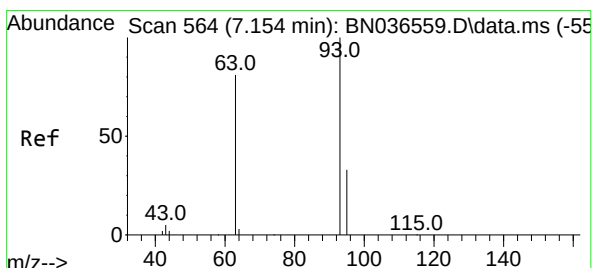
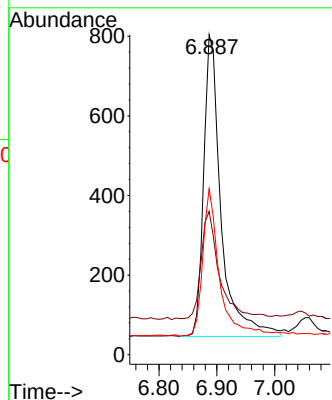
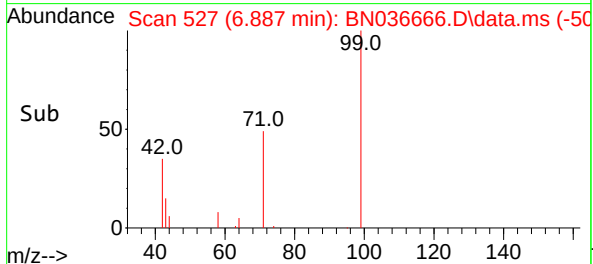
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 99 Resp: 1589
Ion Ratio Lower Upper
99 100
42 39.2 26.5 39.7
71 48.1 34.1 51.1

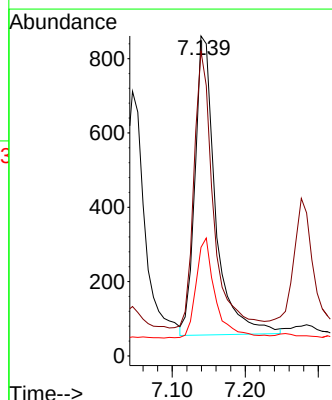
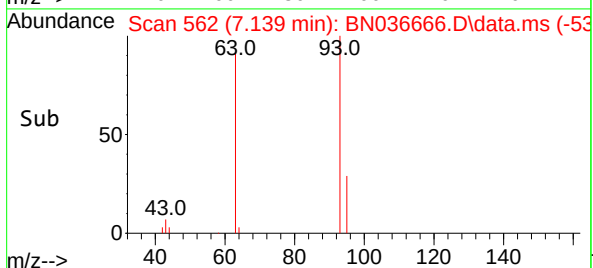
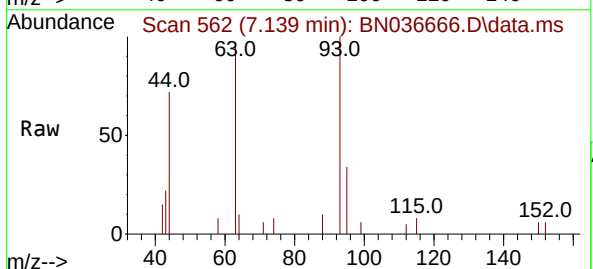
Manual Integrations
APPROVED

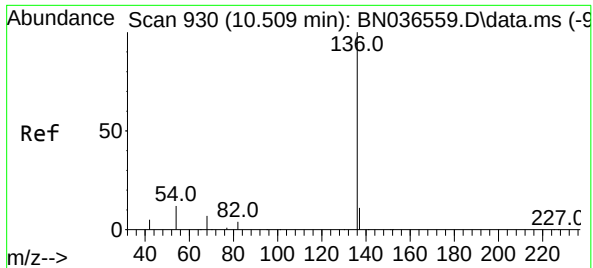
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.380 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.014 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

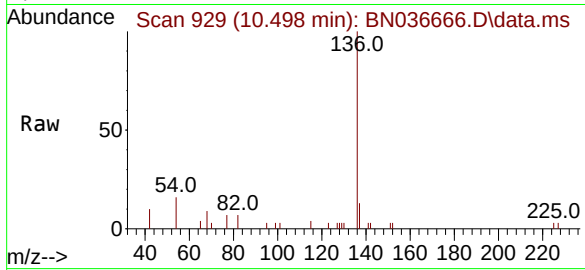
Tgt Ion: 93 Resp: 1583
Ion Ratio Lower Upper
93 100
63 86.4 67.7 101.5
95 31.5 25.6 38.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

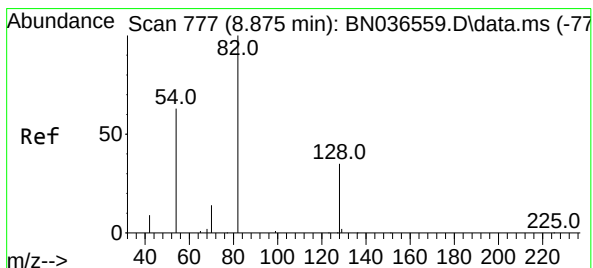
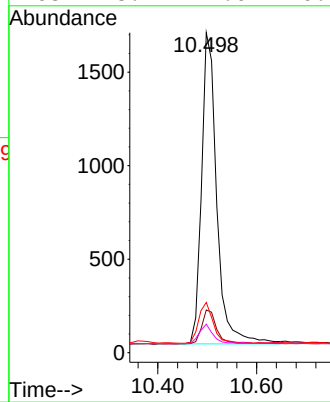
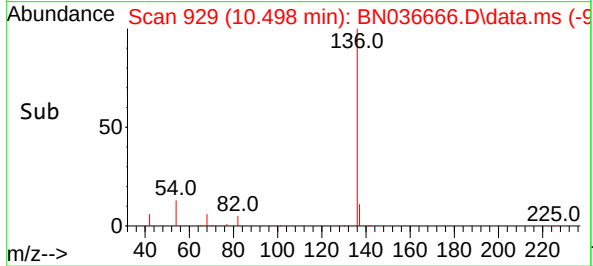
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 136 Resp: 354
Ion Ratio Lower Upper
136 100
137 13.4 10.3 15.5
54 15.7 11.5 17.3
68 8.9 7.0 10.4

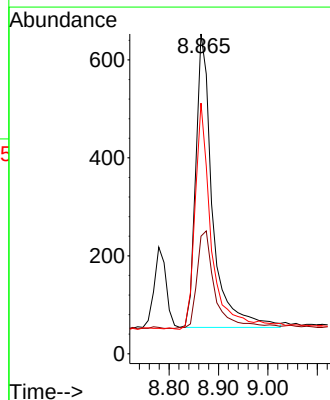
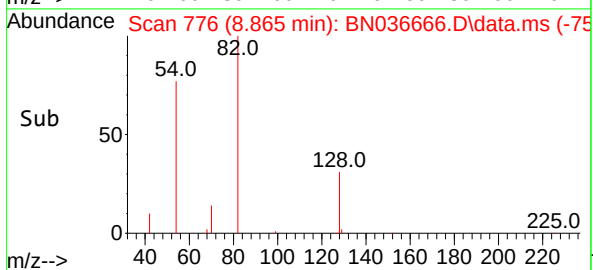
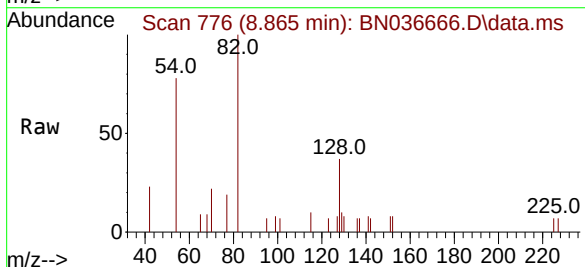
Manual Integrations
APPROVED

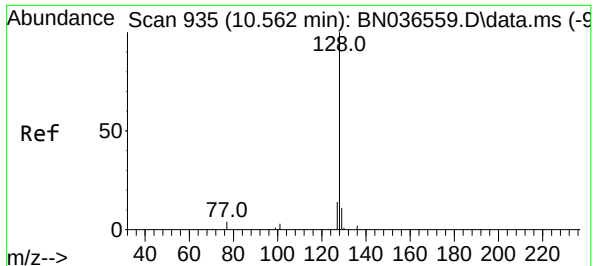
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#8
Nitrobenzene-d5
Concen: 0.366 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion: 82 Resp: 1411
Ion Ratio Lower Upper
82 100
128 36.8 30.6 45.8
54 78.4 52.2 78.4#





#9

Naphthalene

Concen: 0.396 ng

RT: 10.552 min Scan# 91

Delta R.T. -0.011 min

Lab File: BN036666.D

Acq: 17 Mar 2025 19:08

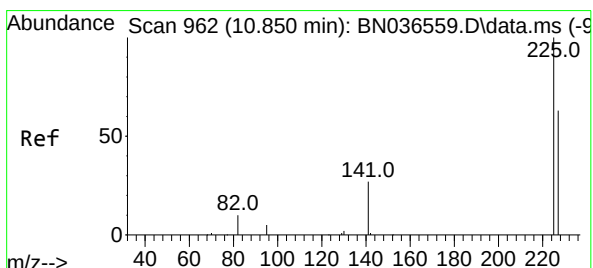
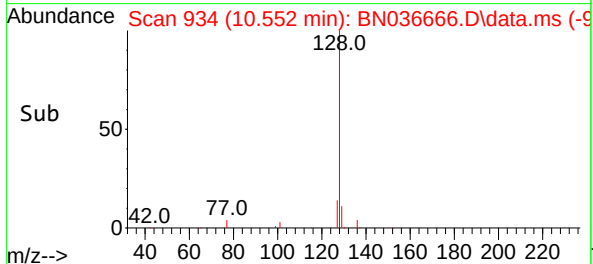
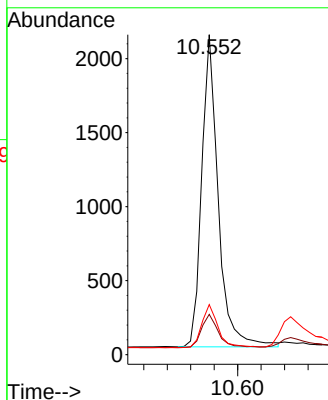
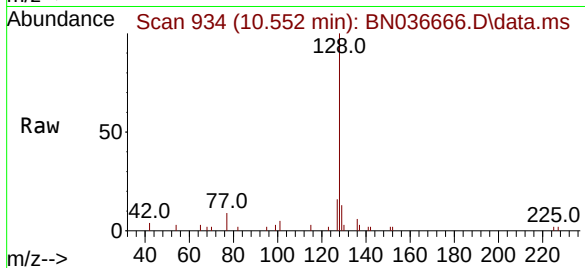
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:	128	Resp:	4134
Ion	Ratio	Lower	Upper
128	100		
129	12.6	9.8	14.6
127	15.6	11.8	17.8

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

#10

Hexachlorobutadiene

Concen: 0.419 ng

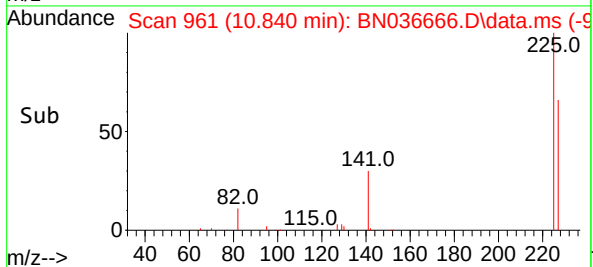
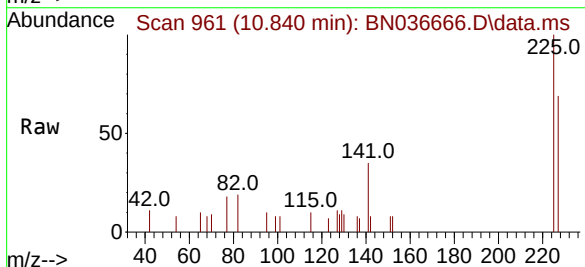
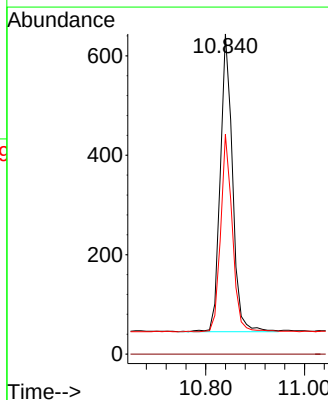
RT: 10.840 min Scan# 961

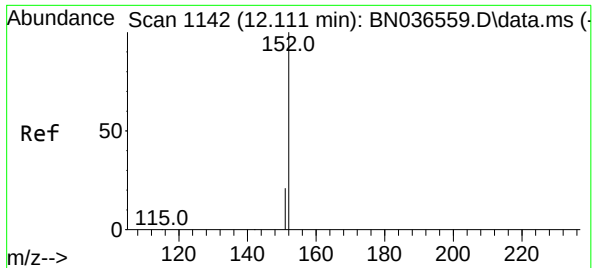
Delta R.T. -0.011 min

Lab File: BN036666.D

Acq: 17 Mar 2025 19:08

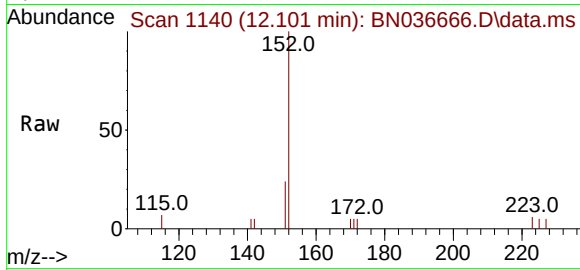
Tgt Ion:	225	Resp:	1029
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	51.8	77.8





#11
2-Methylnaphthalene-d10
Concen: 0.400 ng
RT: 12.101 min Scan# 1140
Delta R.T. -0.010 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

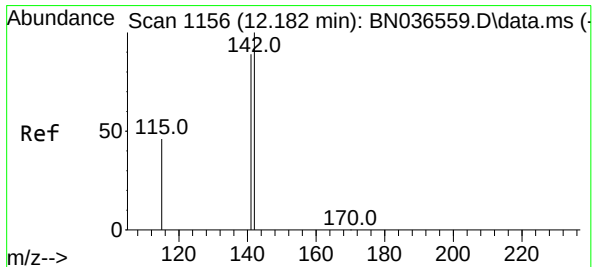
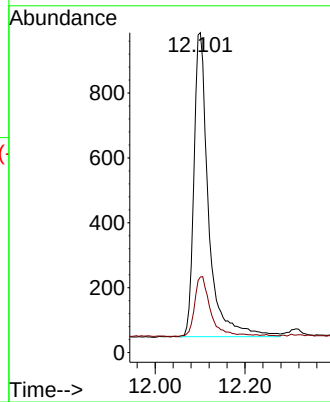
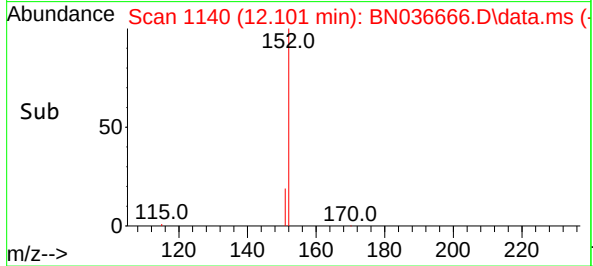
Instrument :
BNA_N
ClientSampleId :
SSTDC00.4EC



Tgt Ion:152 Resp: 211
Ion Ratio Lower Upper
152 100
151 20.8 17.0 25.6

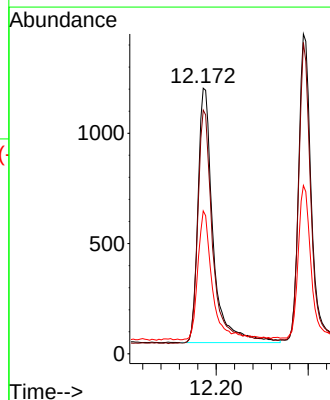
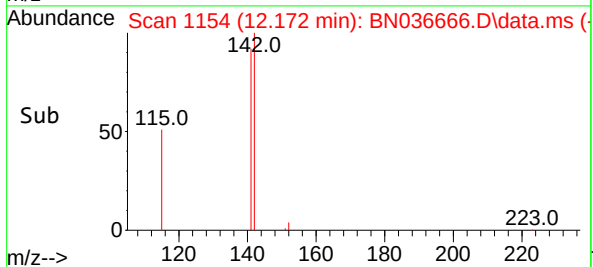
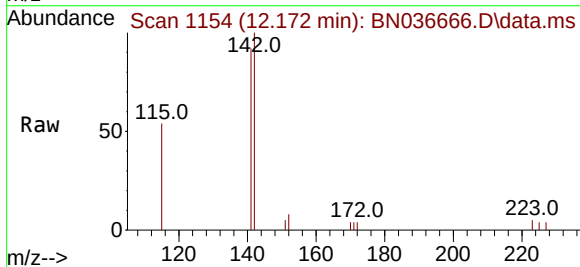
Manual Integrations
APPROVED

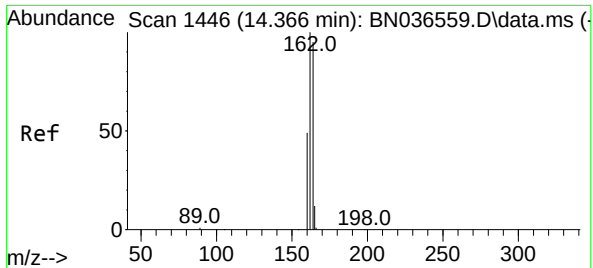
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#12
2-Methylnaphthalene
Concen: 0.396 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

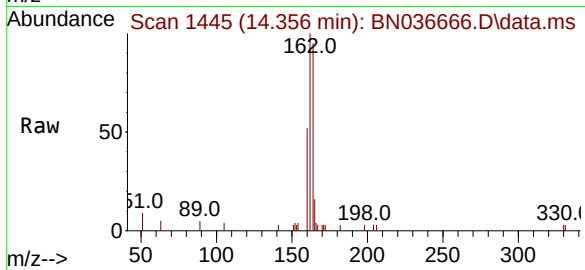
Tgt Ion:142 Resp: 2633
Ion Ratio Lower Upper
142 100
141 91.8 71.7 107.5
115 53.8 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1446
Delta R.T. -0.011 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

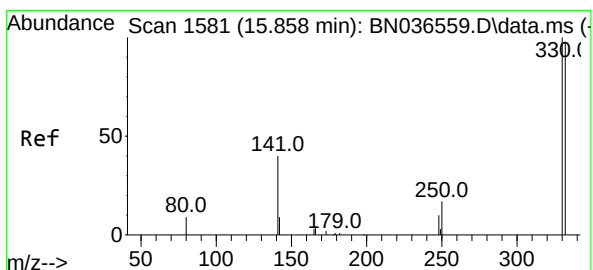
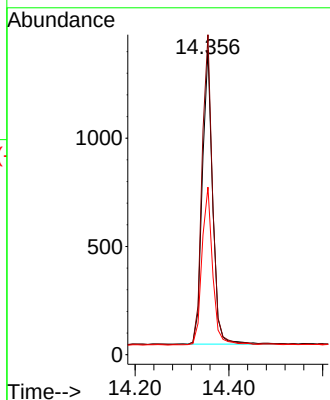
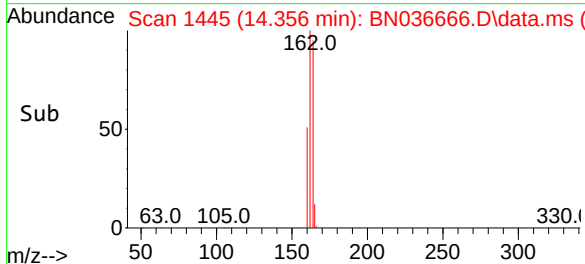
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



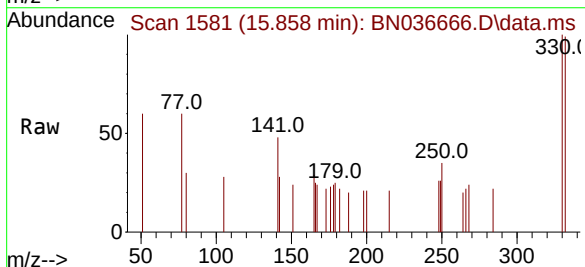
Tgt Ion:164 Resp: 206
Ion Ratio Lower Upper
164 100
162 105.1 84.2 126.2
160 55.0 42.2 63.2

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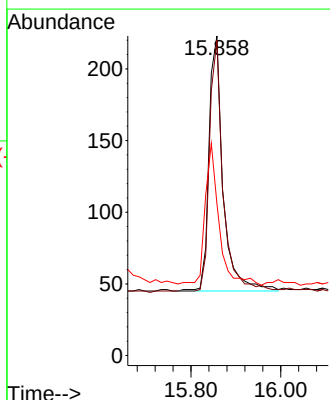
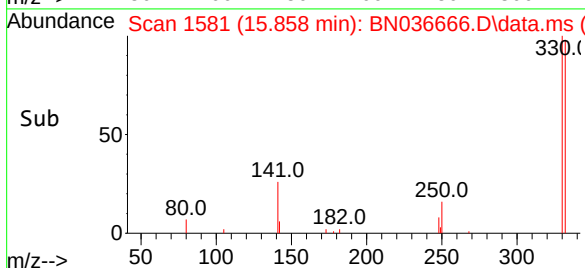
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

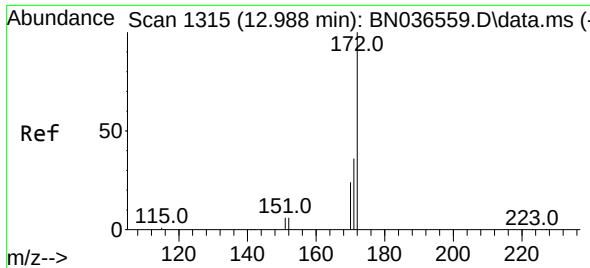


#14
2,4,6-Tribromophenol
Concen: 0.413 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08



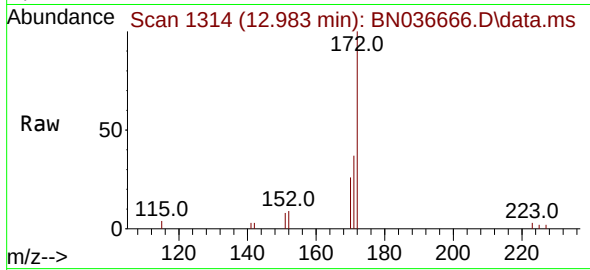
Tgt Ion:330 Resp: 387
Ion Ratio Lower Upper
330 100
332 94.1 75.2 112.8
141 54.8 43.4 65.2





#15
2-Fluorobiphenyl
Concen: 0.403 ng
RT: 12.983 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

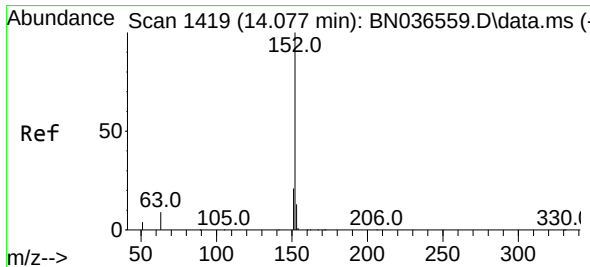
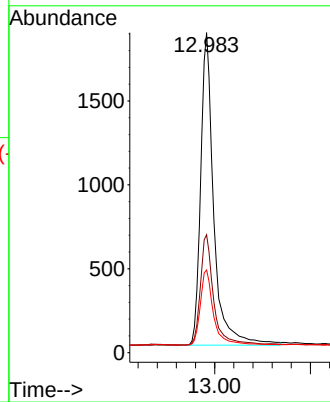
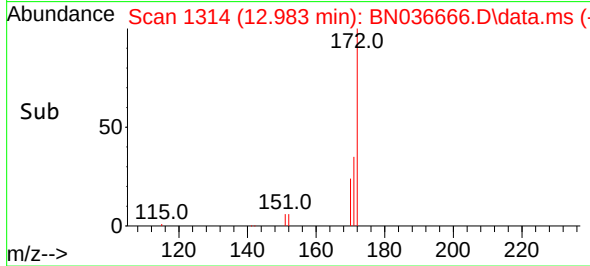
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



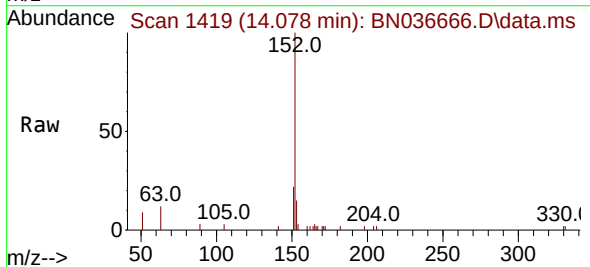
Tgt Ion:172 Resp: 484
Ion Ratio Lower Upper
172 100
171 36.9 29.5 44.3
170 25.9 20.2 30.4

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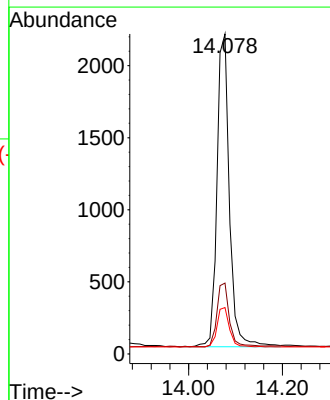
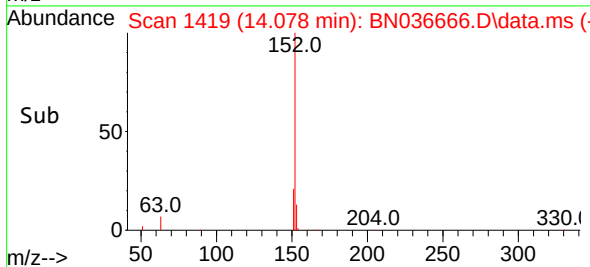
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

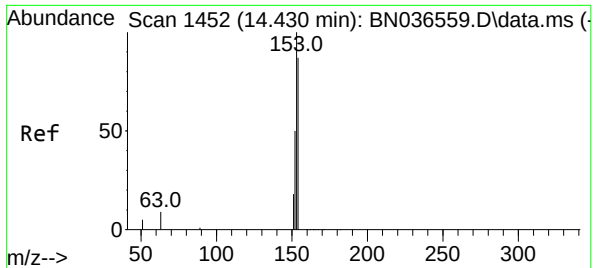


#16
Acenaphthylene
Concen: 0.411 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08



Tgt Ion:152 Resp: 4009
Ion Ratio Lower Upper
152 100
151 20.1 16.2 24.4
153 13.0 10.6 15.8





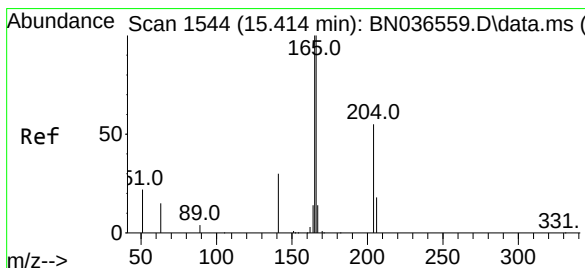
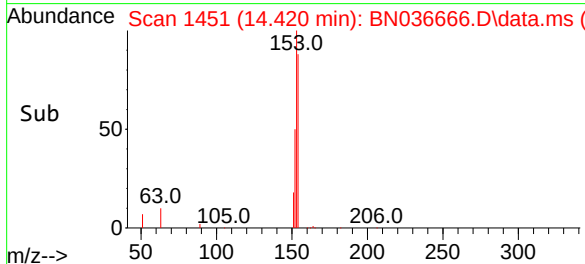
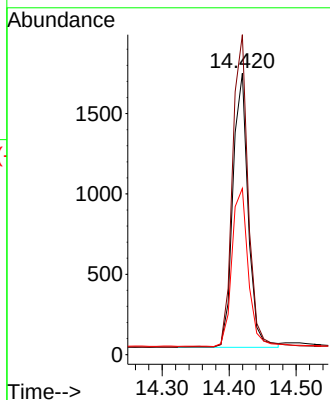
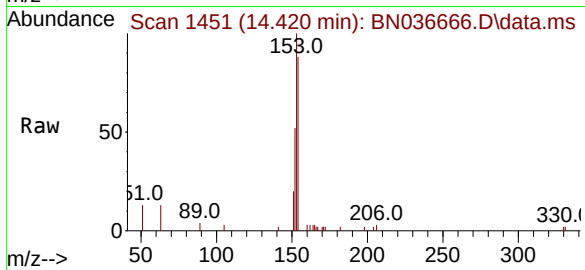
#17
Acenaphthene
Concen: 0.422 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 269
Ion Ratio Lower Upper
154 100
153 116.7 94.1 141.1
152 61.7 49.8 74.6

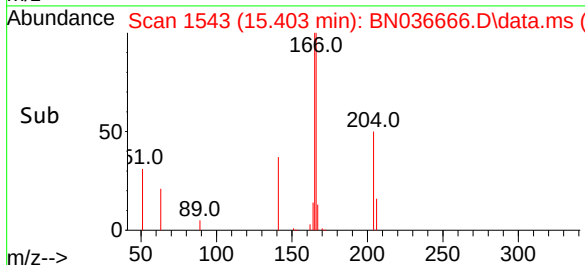
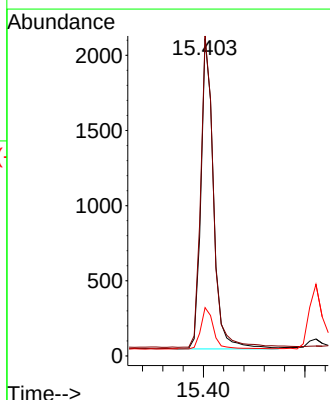
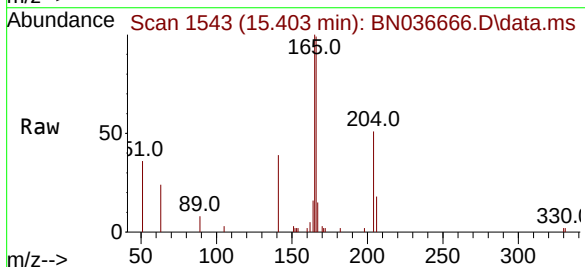
Manual Integrations
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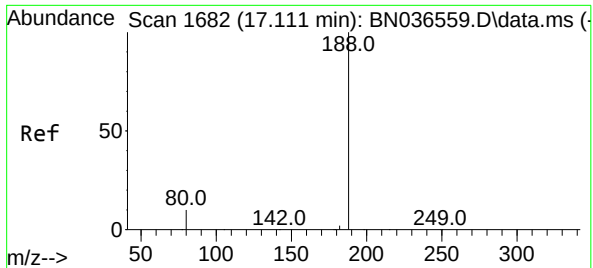
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#18
Fluorene
Concen: 0.421 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.011 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:166 Resp: 3637
Ion Ratio Lower Upper
166 100
165 100.9 79.8 119.8
167 13.4 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN036666.D

Acq: 17 Mar 2025 19:08

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

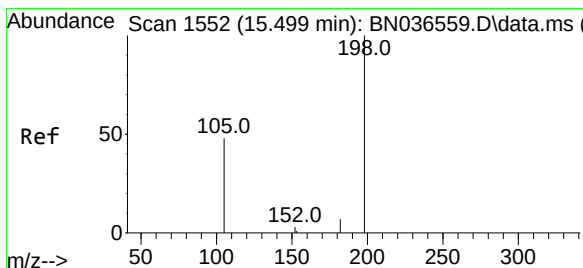
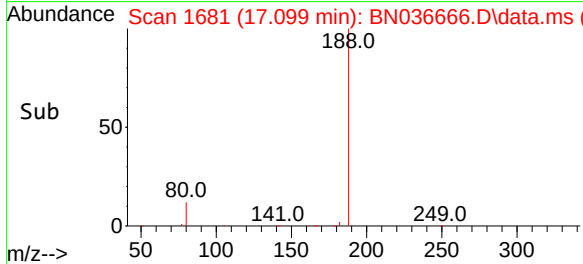
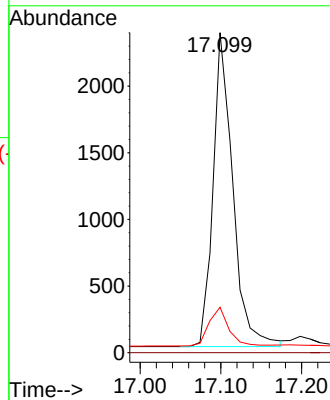
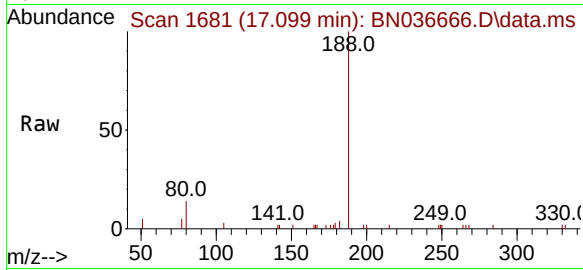
Tgt Ion:	188	Resp:	400
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	14.2	8.8	13.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/18/2025

Supervised By :Jagrut Upadhyay 03/18/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.424 ng

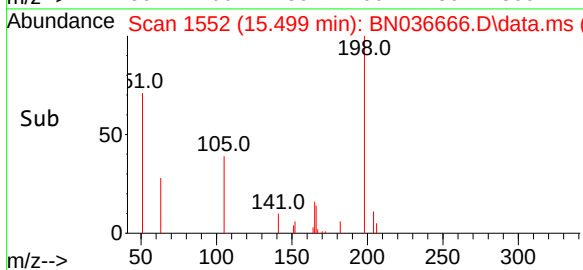
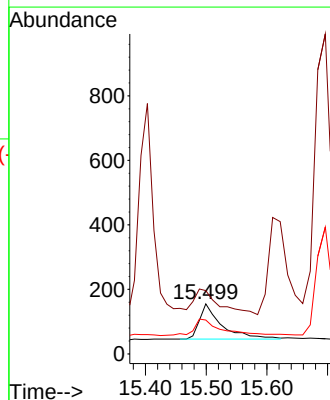
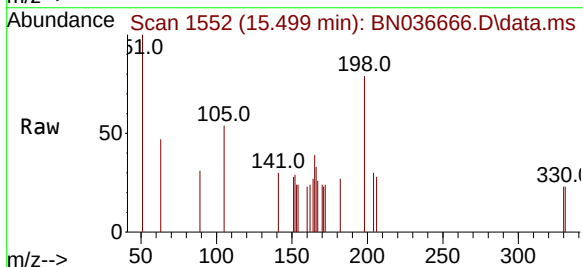
RT: 15.499 min Scan# 1552

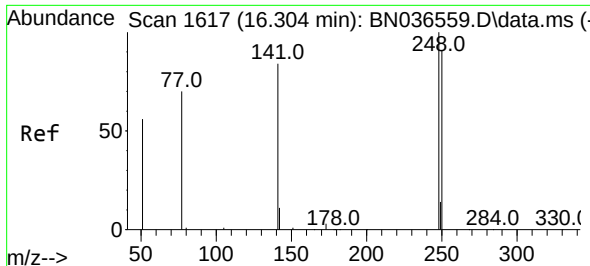
Delta R.T. 0.000 min

Lab File: BN036666.D

Acq: 17 Mar 2025 19:08

Tgt Ion:	198	Resp:	285
Ion Ratio	Lower	Upper	
198	100		
51	126.5	107.9	161.9
105	67.7	56.2	84.2





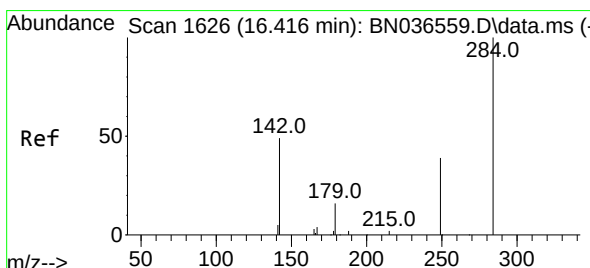
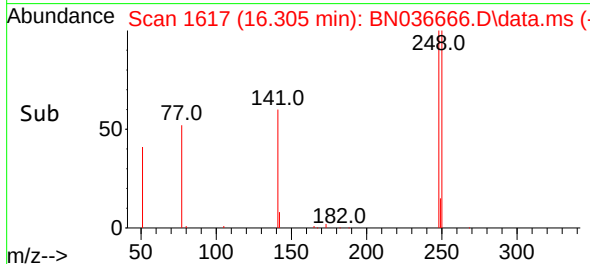
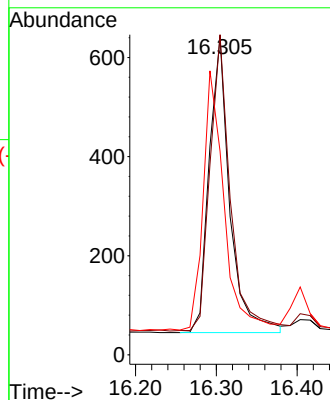
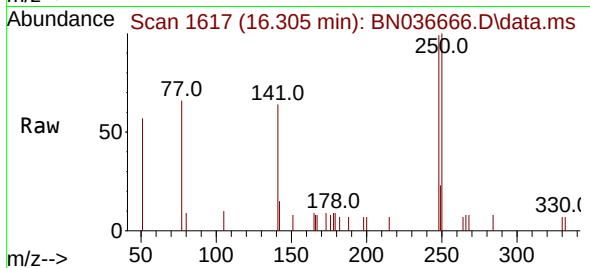
#21
4-Bromophenyl-phenylether
Concen: 0.421 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 105
Ion Ratio Lower Upper
248 100
250 100.6 73.0 109.6
141 64.0 68.6 103.0

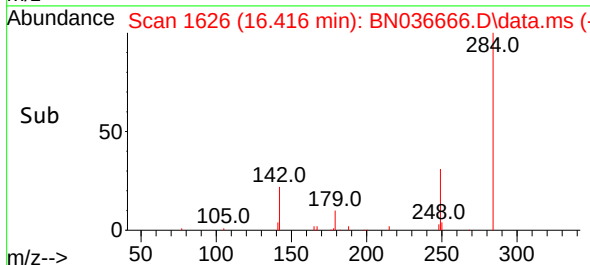
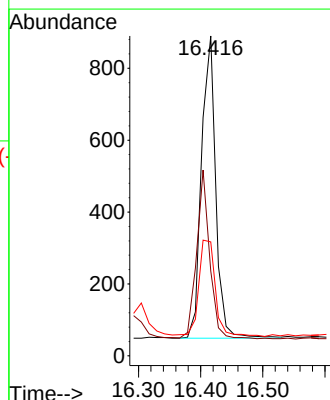
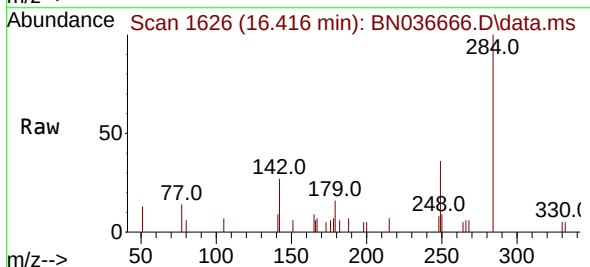
Manual Integrations
APPROVED

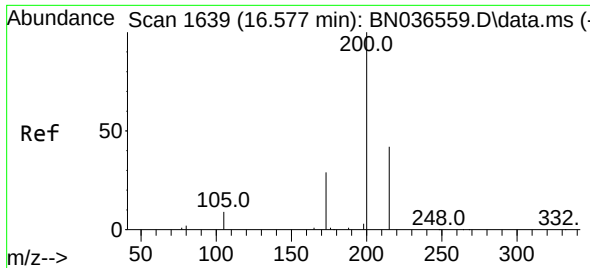
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#22
Hexachlorobenzene
Concen: 0.444 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

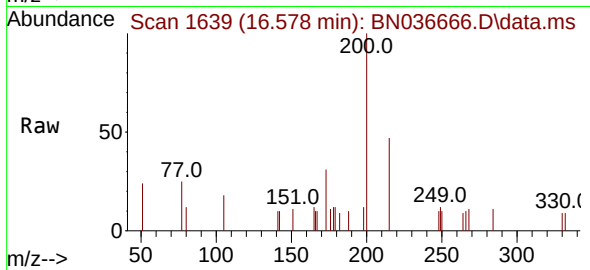
Tgt Ion:284 Resp: 1345
Ion Ratio Lower Upper
284 100
142 50.9 37.0 55.4
249 37.2 28.1 42.1





#23
Atrazine
Concen: 0.455 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

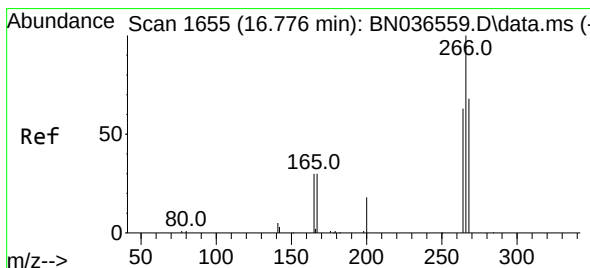
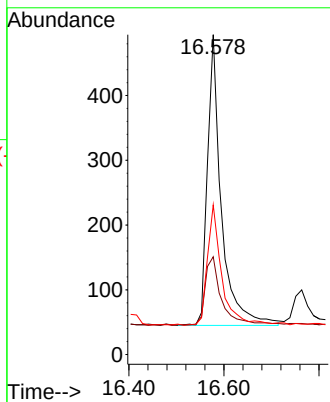
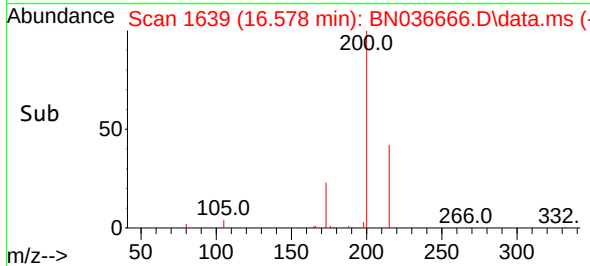
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:200 Resp: 910
Ion Ratio Lower Upper
200 100
173 30.6 27.3 40.9
215 46.8 36.8 55.2

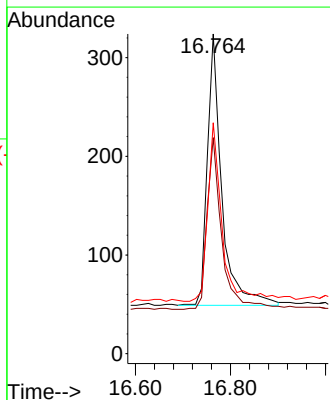
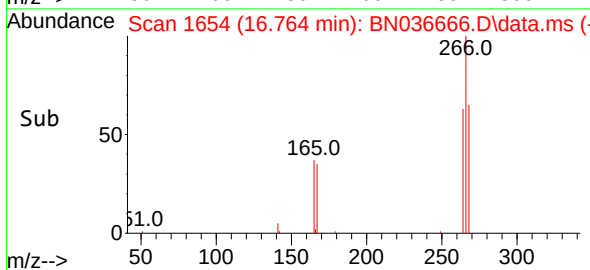
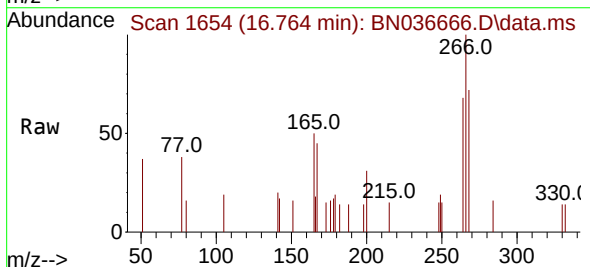
Manual Integrations
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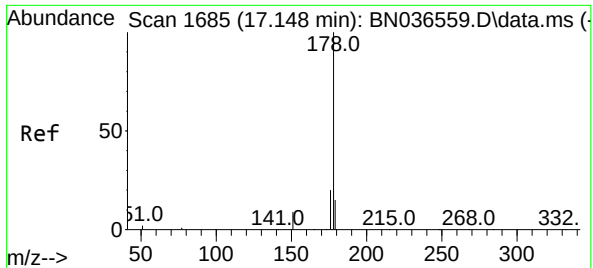
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#24
Pentachlorophenol
Concen: 0.421 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

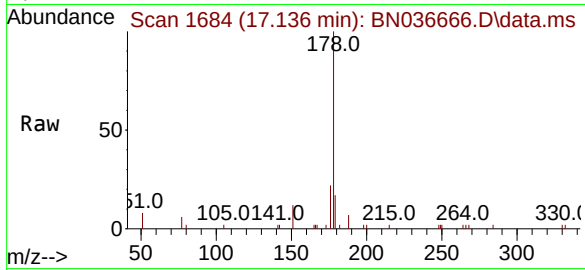
Tgt Ion:266 Resp: 582
Ion Ratio Lower Upper
266 100
264 64.6 49.6 74.4
268 65.5 50.9 76.3





#25
Phenanthrene
Concen: 0.433 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.012 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

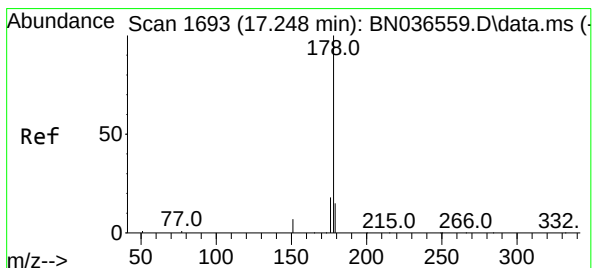
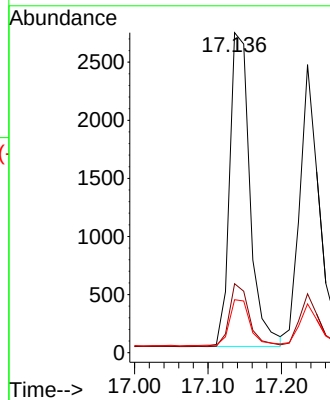
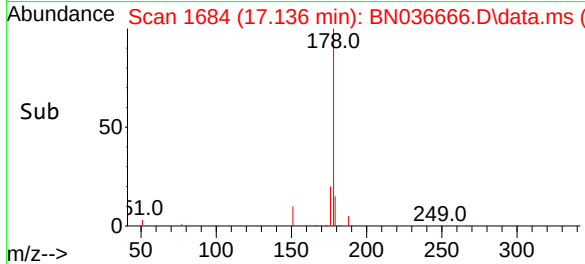
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:178 Resp: 5204
Ion Ratio Lower Upper
178 100
176 19.5 15.9 23.9
179 15.2 12.2 18.4

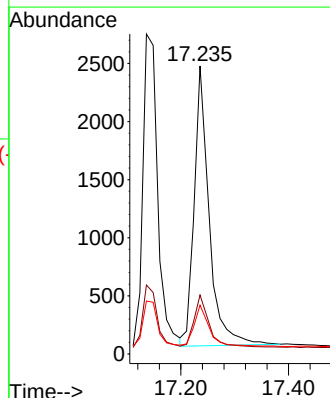
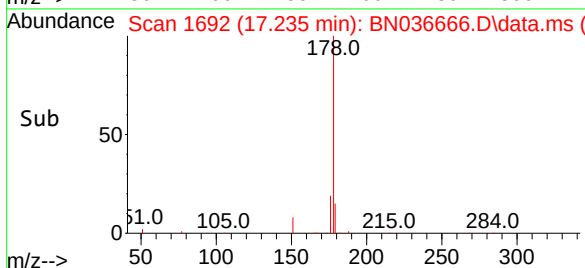
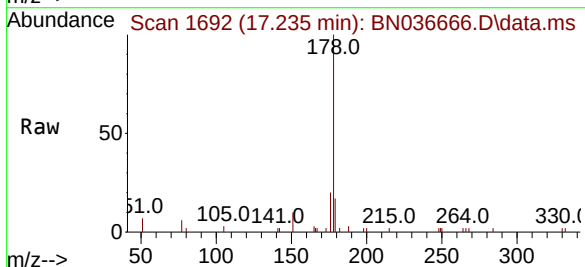
Manual Integrations
APPROVED

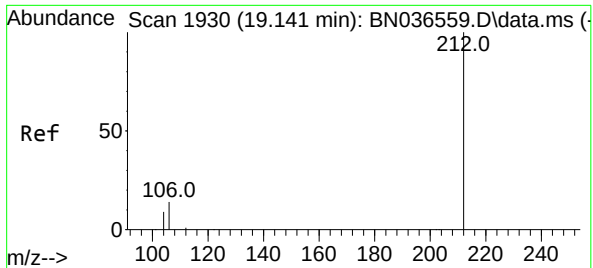
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#26
Anthracene
Concen: 0.430 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:178 Resp: 4660
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 15.5 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.430 ng

RT: 19.136 min Scan# 1929

Delta R.T. -0.005 min

Lab File: BN036666.D

Acq: 17 Mar 2025 19:08

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

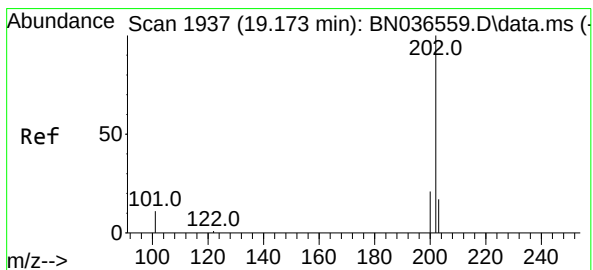
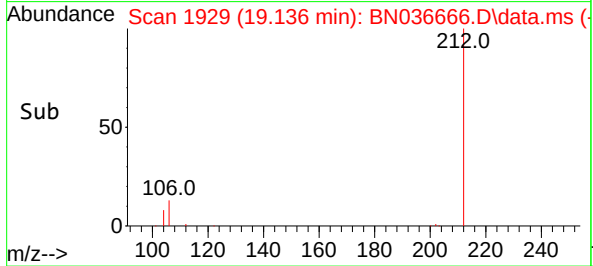
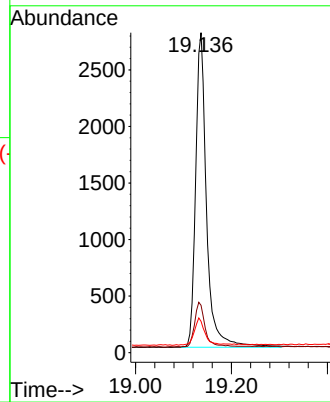
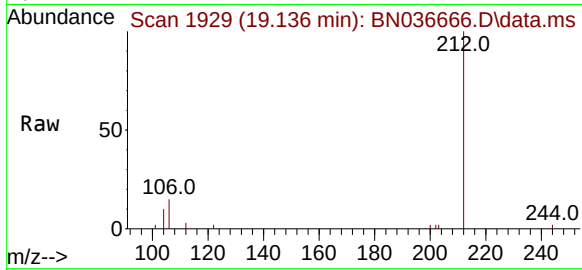
Tgt Ion:	212	Resp:	4410
Ion Ratio	Lower	Upper	
212	100		
106	13.7	11.8	17.6
104	8.0	7.3	10.9

Manual Integrations

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Reviewed By :Anahy Claudio 03/18/2025

Supervised By :Jagrut Upadhyay 03/18/2025



#28

Fluoranthene

Concen: 0.436 ng

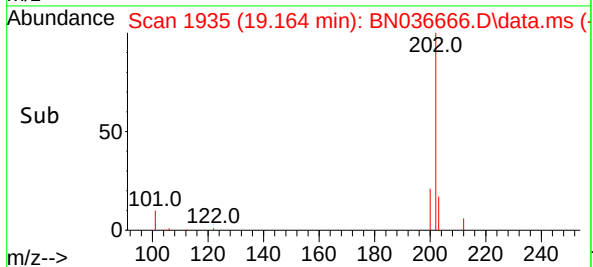
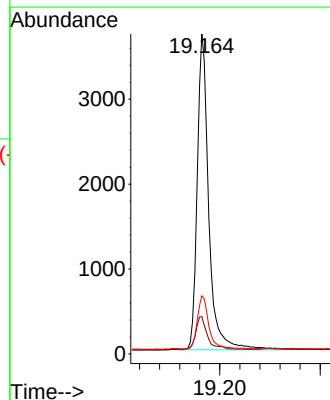
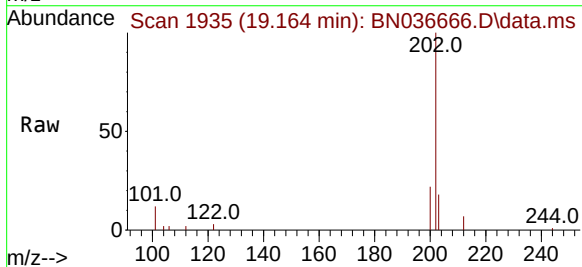
RT: 19.164 min Scan# 1935

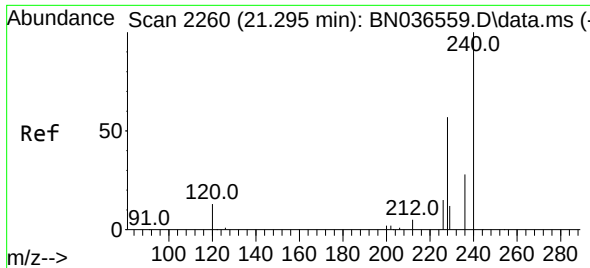
Delta R.T. -0.009 min

Lab File: BN036666.D

Acq: 17 Mar 2025 19:08

Tgt Ion:	202	Resp:	5887
Ion Ratio	Lower	Upper	
202	100		
101	10.5	9.4	14.0
203	16.6	13.5	20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036666.D

Acq: 17 Mar 2025 19:08

Instrument :

BNA_N

ClientSampleId :

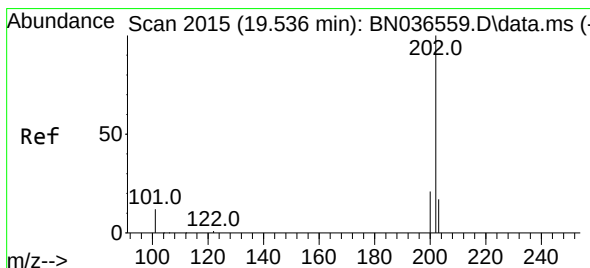
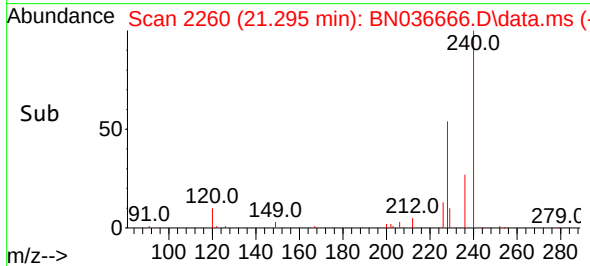
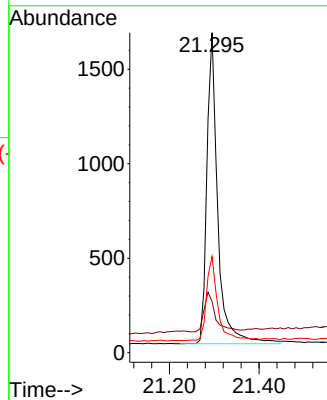
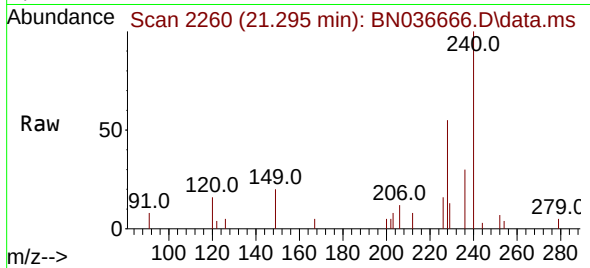
SSTDCCC0.4EC

Tgt Ion:	240	Resp:	2784
Ion Ratio	Lower	Upper	
240	100		
120	16.0	14.6	22.0
236	30.0	24.1	36.1

Manual Integrations

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Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#30

Pyrene

Concen: 0.438 ng

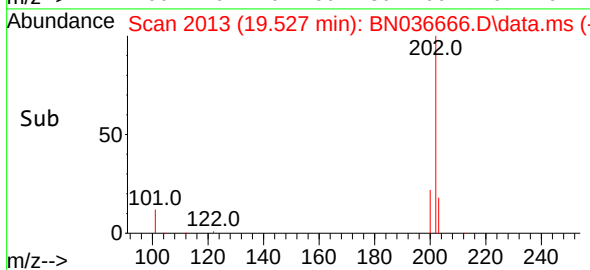
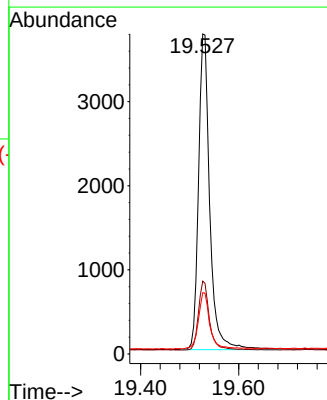
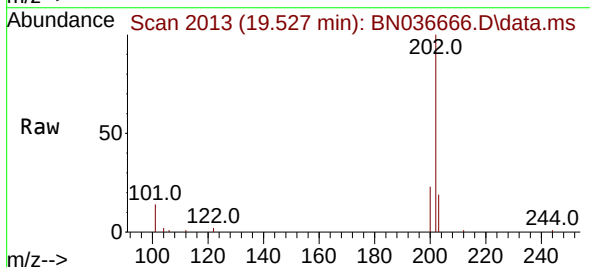
RT: 19.527 min Scan# 2013

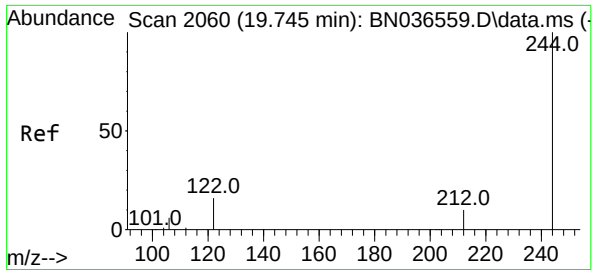
Delta R.T. -0.009 min

Lab File: BN036666.D

Acq: 17 Mar 2025 19:08

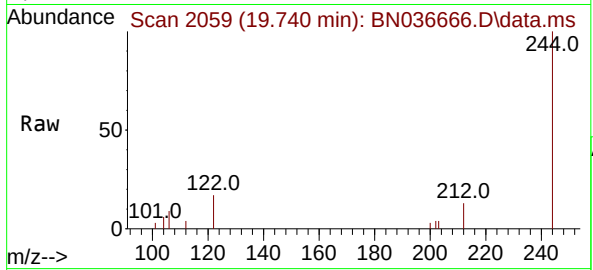
Tgt Ion:	202	Resp:	5967
Ion Ratio	Lower	Upper	
202	100		
200	21.4	17.1	25.7
203	17.8	14.1	21.1





#31
Terphenyl-d14
Concen: 0.414 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

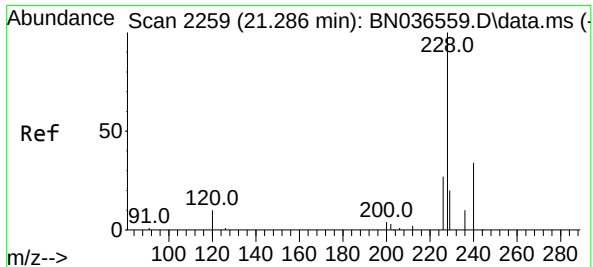
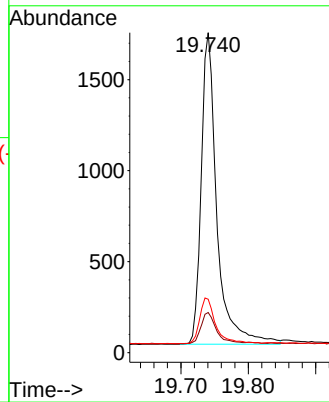
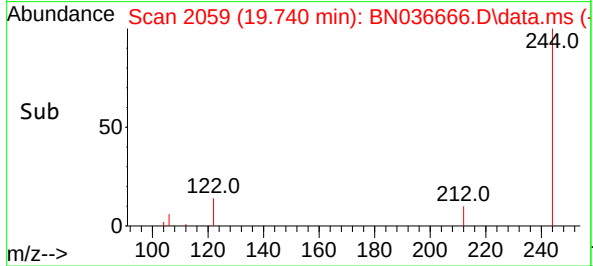
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:244 Resp: 2760
Ion Ratio Lower Upper
244 100
212 12.5 9.6 14.4
122 16.7 13.9 20.9

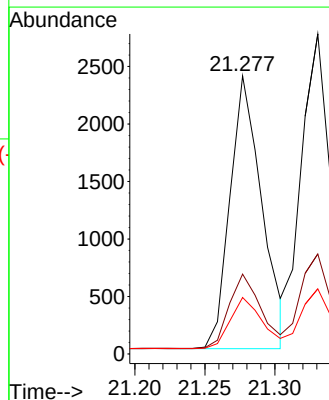
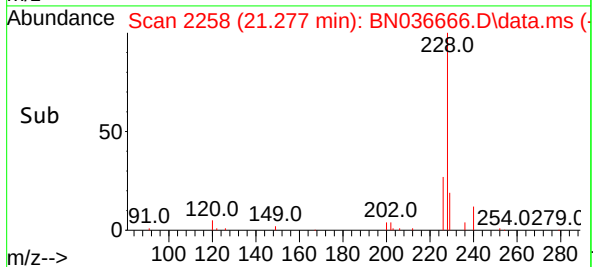
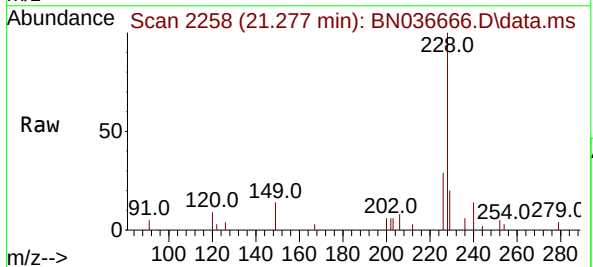
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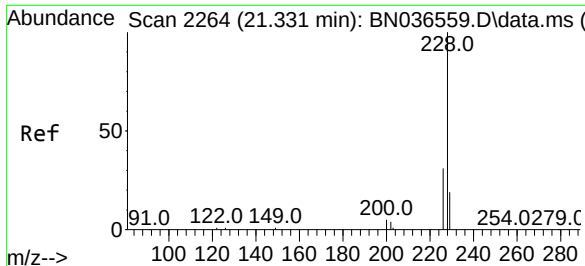
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#32
Benzo(a)anthracene
Concen: 0.389 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

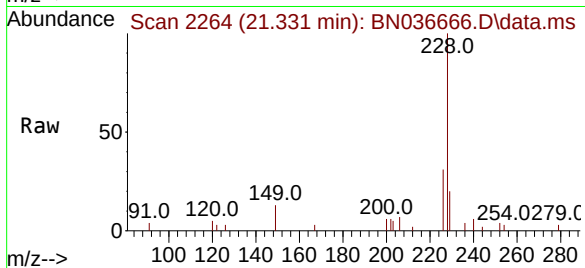
Tgt Ion:228 Resp: 3762
Ion Ratio Lower Upper
228 100
226 28.7 22.5 33.7
229 20.3 16.6 25.0





#33
Chrysene
Concen: 0.445 ng
RT: 21.331 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

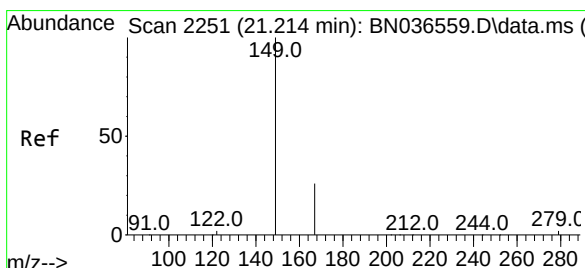
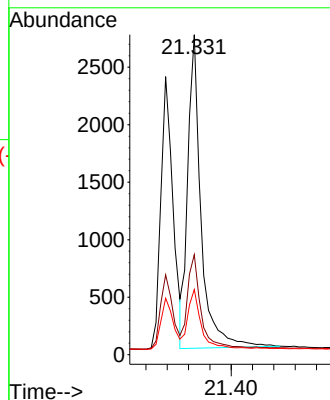
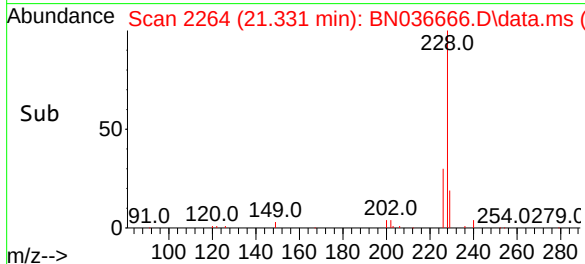
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



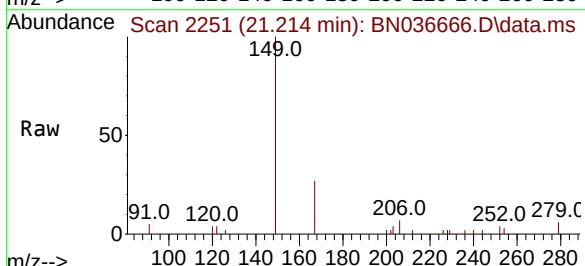
Tgt Ion: 228 Resp: 470
Ion Ratio Lower Upper
228 100
226 31.3 25.3 37.9
229 20.4 15.8 23.8

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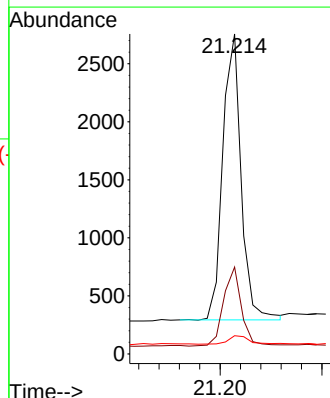
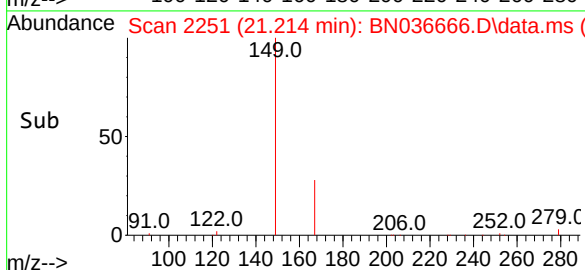
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

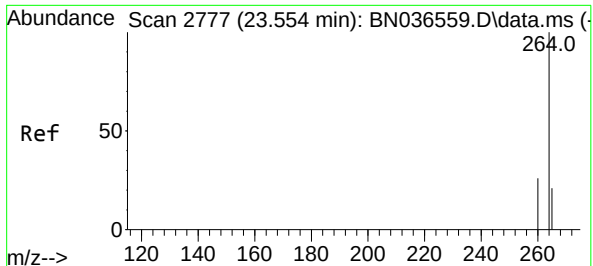


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.447 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08



Tgt Ion: 149 Resp: 3084
Ion Ratio Lower Upper
149 100
167 27.0 20.7 31.1
279 3.5 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.549 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036666.D

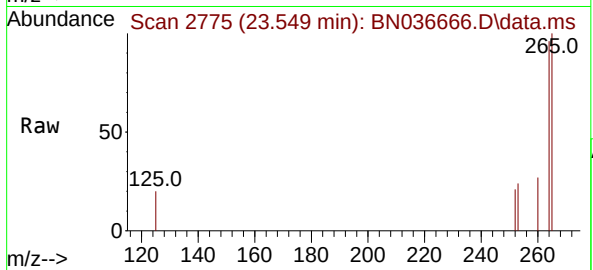
Acq: 17 Mar 2025 19:08

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:264 Resp: 240

Ion Ratio Lower Upper

264 100

260 28.3 22.6 33.8

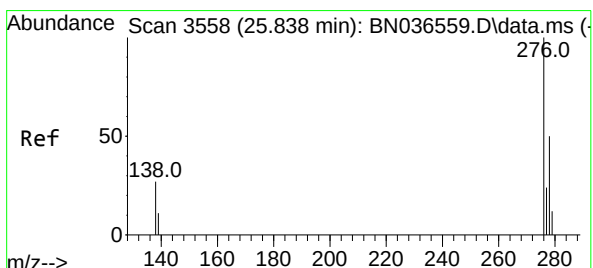
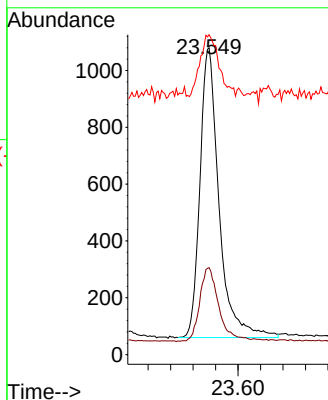
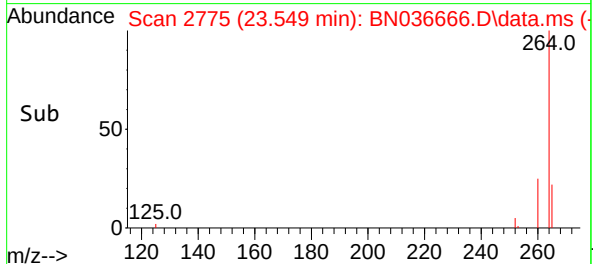
265 104.3 88.1 132.1

Manual Integrations

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Reviewed By :Anahy Claudio 03/18/2025

Supervised By :Jagrut Upadhyay 03/18/2025



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.413 ng

RT: 25.826 min Scan# 3554

Delta R.T. -0.012 min

Lab File: BN036666.D

Acq: 17 Mar 2025 19:08

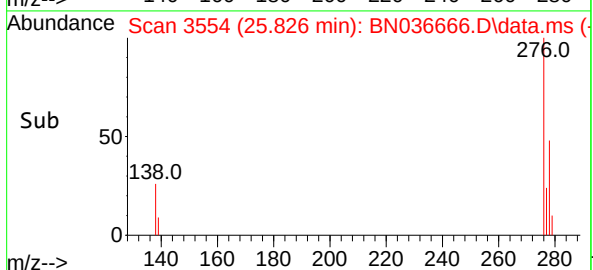
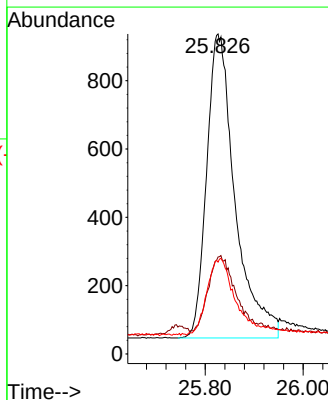
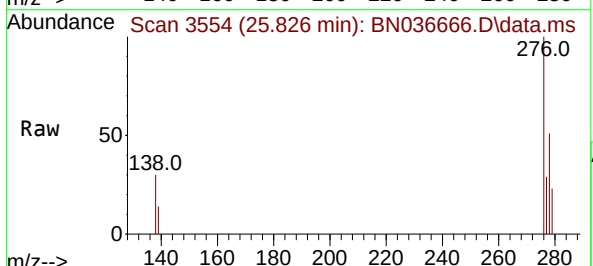
Tgt Ion:276 Resp: 3581

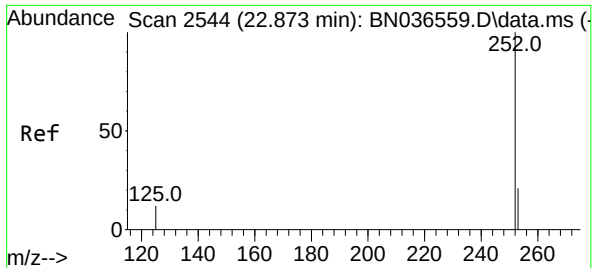
Ion Ratio Lower Upper

276 100

138 23.3 23.4 35.2#

277 25.1 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.437 ng m

RT: 22.870 min Scan# 2544

Delta R.T. -0.003 min

Lab File: BN036666.D

Acq: 17 Mar 2025 19:08

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

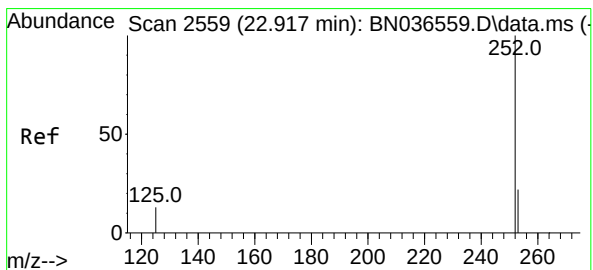
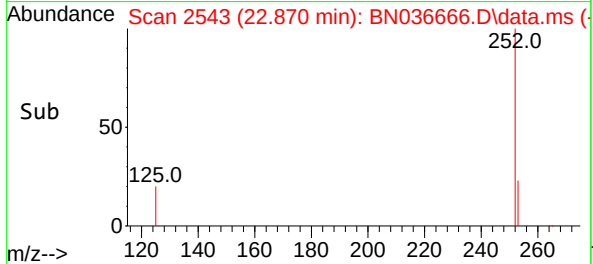
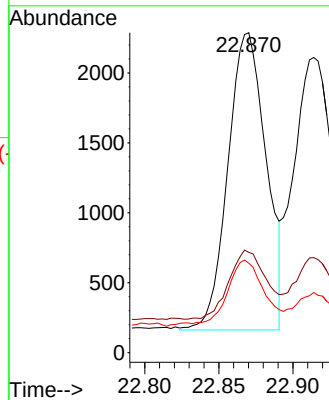
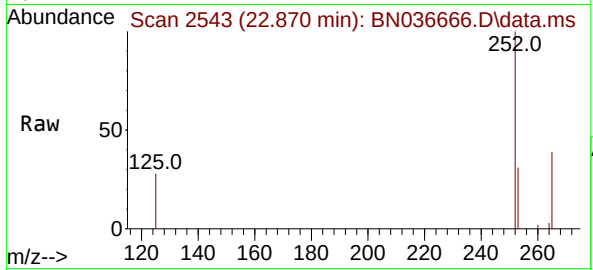
Tgt Ion:252	Resp:	3818
Ion Ratio	Lower	Upper
252	100	
253	31.3	23.9 35.9
125	27.9	17.4 26.2

Manual Integrations

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Reviewed By :Anahy Claudio 03/18/2025

Supervised By :Jagrut Upadhyay 03/18/2025



#38

Benzo(k)fluoranthene

Concen: 0.439 ng m

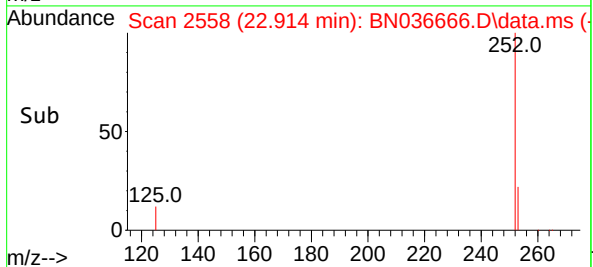
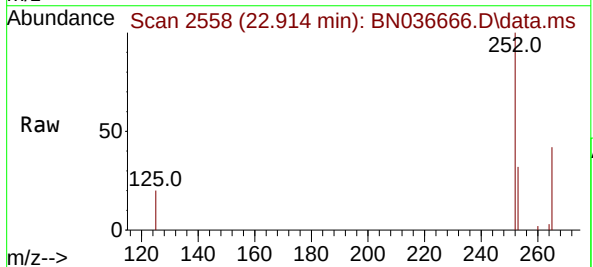
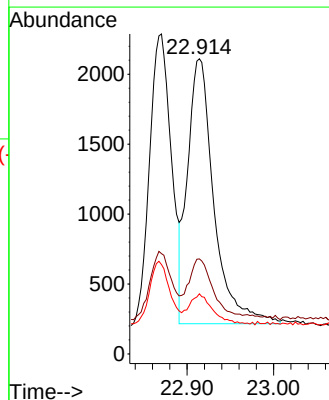
RT: 22.914 min Scan# 2558

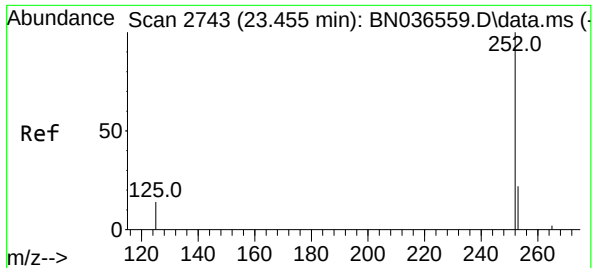
Delta R.T. -0.003 min

Lab File: BN036666.D

Acq: 17 Mar 2025 19:08

Tgt Ion:252	Resp:	4020
Ion Ratio	Lower	Upper
252	100	
253	32.2	24.6 36.8
125	20.4	17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.446 ng

RT: 23.449 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036666.D

Acq: 17 Mar 2025 19:08

Instrument :

BNA_N

ClientSampleId :

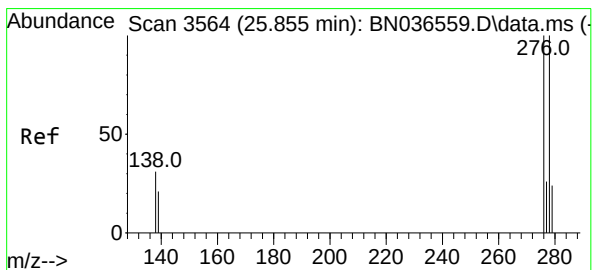
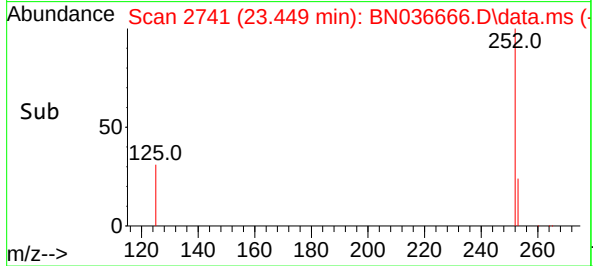
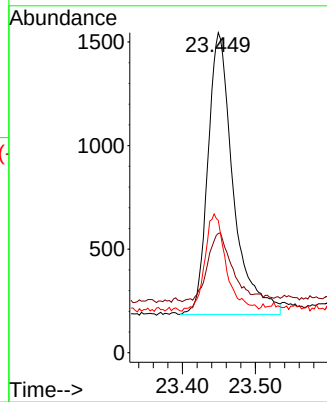
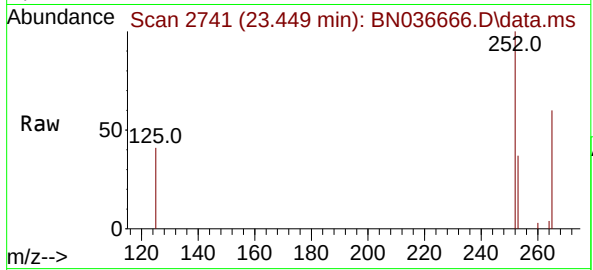
SSTDCCC0.4EC

Tgt Ion:252	Resp:	3280
Ion Ratio	Lower	Upper
252	100	
253	37.3	27.8 41.8
125	41.3	22.7 34.1

Manual Integrations

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Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.419 ng

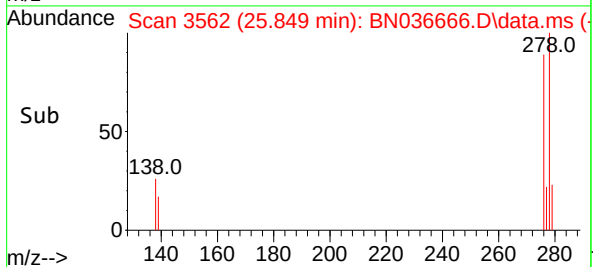
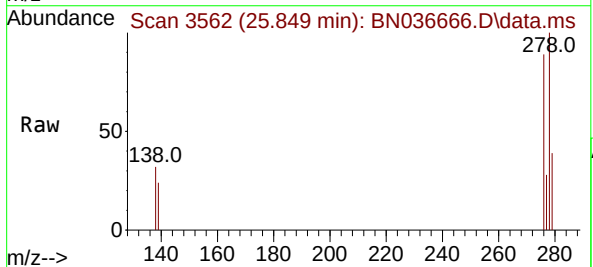
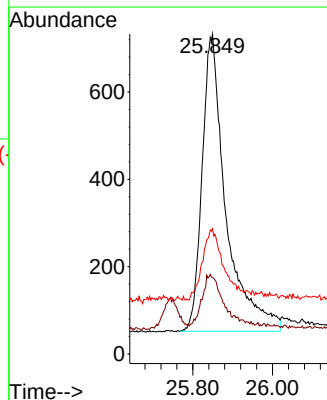
RT: 25.849 min Scan# 3562

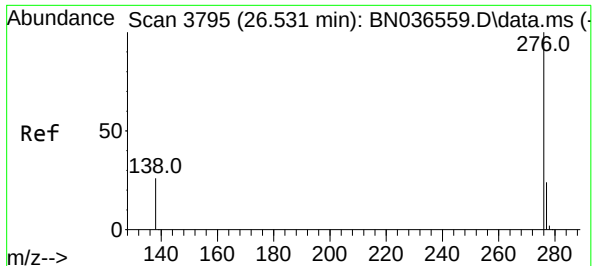
Delta R.T. -0.006 min

Lab File: BN036666.D

Acq: 17 Mar 2025 19:08

Tgt Ion:278	Resp:	2826
Ion Ratio	Lower	Upper
278	100	
139	23.9	20.8 31.2
279	39.2	28.8 43.2





#41

Benzo(g,h,i)perylene

Concen: 0.423 ng

RT: 26.519 min Scan# 31

Delta R.T. -0.012 min

Lab File: BN036666.D

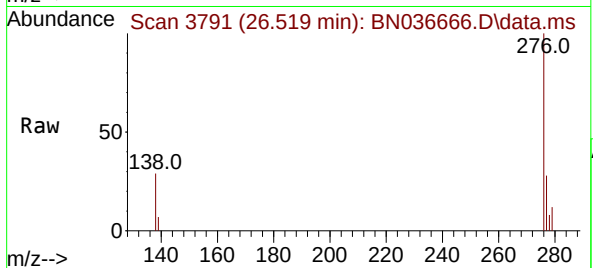
Acq: 17 Mar 2025 19:08

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion: 276 Resp: 326

Ion Ratio Lower Upper

276 100

277 27.9 22.2 33.4

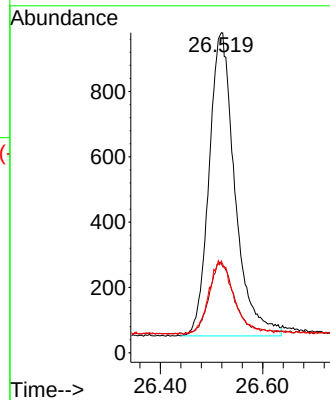
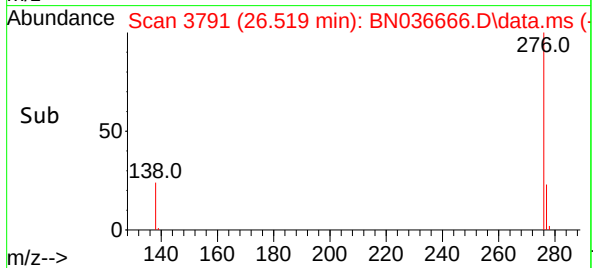
138 28.7 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/18/2025

Supervised By :Jagrut Upadhyay 03/18/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036666.D
Acq On : 17 Mar 2025 19:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 18 00:55:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	63	0.00
2	1,4-Dioxane	0.444	0.534	-20.3	68	0.00
3	n-Nitrosodimethylamine	0.898	1.071	-19.3	73	0.00
4 S	2-Fluorophenol	0.932	0.954	-2.4	61	0.00
5 S	Phenol-d6	1.152	1.135	1.5	64	-0.01
6	bis(2-Chloroethyl)ether	1.190	1.131	5.0	61	-0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	70	-0.01
8 S	Nitrobenzene-d5	0.435	0.398	8.5	67	-0.01
9	Naphthalene	1.177	1.165	1.0	67	-0.01
10	Hexachlorobutadiene	0.277	0.290	-4.7	69	-0.01
11 SURR	2-Methylnaphthalene-d10	0.595	0.595	0.0	68	-0.01
12	2-Methylnaphthalene	0.749	0.742	0.9	68	-0.01
13 I	Acenaphthene-d10	1.000	1.000	0.0	68	-0.01
14 S	2,4,6-Tribromophenol	0.182	0.187	-2.7	68	0.00
15 S	2-Fluorobiphenyl	2.327	2.343	-0.7	67	0.00
16	Acenaphthylene	1.888	1.940	-2.8	68	0.00
17	Acenaphthene	1.236	1.305	-5.6	70	-0.01
18	Fluorene	1.672	1.760	-5.3	68	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	67	-0.01
20	4,6-Dinitro-2-methylphenol	0.086	0.071	17.4	62	0.00
21	4-Bromophenyl-phenylether	0.251	0.264	-5.2	64	0.00
22	Hexachlorobenzene	0.303	0.336	-10.9	67	0.00
23	Atrazine	0.201	0.229	-13.9	72	0.00
24	Pentachlorophenol	0.138	0.145	-5.1	71	-0.01
25	Phenanthrene	1.200	1.300	-8.3	67	-0.01
26	Anthracene	1.083	1.164	-7.5	68	-0.01
27 SURR	Fluoranthene-d10	1.025	1.103	-7.6	66	0.00
28	Fluoranthene	1.348	1.470	-9.1	68	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	68	0.00
30	Pyrene	1.956	2.143	-9.6	68	0.00
31 S	Terphenyl-d14	0.958	0.991	-3.4	65	0.00
32	Benzo(a)anthracene	1.391	1.351	2.9	64	0.00
33	Chrysene	1.520	1.690	-11.2	71	0.00
34	Bis(2-ethylhexyl)phthalate	0.990	1.108	-11.9	72	0.00
35 I	Perylene-d12	1.000	1.000	0.0	68	0.00
36	Indeno(1,2,3-cd)pyrene	1.444	1.491	-3.3	65	-0.01
37	Benzo(b)fluoranthene	1.456	1.590	-9.2	70	0.00
38	Benzo(k)fluoranthene	1.527	1.674	-9.6	70	0.00
39 C	Benzo(a)pyrene	1.226	1.366	-11.4	71	0.00
40	Dibenzo(a,h)anthracene	1.124	1.177	-4.7	69	0.00
41	Benzo(g,h,i)perylene	1.286	1.359	-5.7	67	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036666.D
Acq On : 17 Mar 2025 19:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 18 00:55:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	63	0.00
2	1,4-Dioxane	0.400	0.481	-20.2	68	0.00
3	n-Nitrosodimethylamine	0.400	0.477	-19.2	73	0.00
4 S	2-Fluorophenol	0.400	0.409	-2.2	61	0.00
5 S	Phenol-d6	0.400	0.394	1.5	64	-0.01
6	bis(2-Chloroethyl)ether	0.400	0.380	5.0	61	-0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	70	-0.01
8 S	Nitrobenzene-d5	0.400	0.366	8.5	67	-0.01
9	Naphthalene	0.400	0.396	1.0	67	-0.01
10	Hexachlorobutadiene	0.400	0.419	-4.7	69	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.400	0.0	68	-0.01
12	2-Methylnaphthalene	0.400	0.396	1.0	68	-0.01
13 I	Acenaphthene-d10	0.400	0.400	0.0	68	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.413	-3.2	68	0.00
15 S	2-Fluorobiphenyl	0.400	0.403	-0.8	67	0.00
16	Acenaphthylene	0.400	0.411	-2.7	68	0.00
17	Acenaphthene	0.400	0.422	-5.5	70	-0.01
18	Fluorene	0.400	0.421	-5.2	68	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	67	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.424	-6.0	62	0.00
21	4-Bromophenyl-phenylether	0.400	0.421	-5.2	64	0.00
22	Hexachlorobenzene	0.400	0.444	-11.0	67	0.00
23	Atrazine	0.400	0.455	-13.7	72	0.00
24	Pentachlorophenol	0.400	0.421	-5.2	71	-0.01
25	Phenanthrene	0.400	0.433	-8.2	67	-0.01
26	Anthracene	0.400	0.430	-7.5	68	-0.01
27 SURR	Fluoranthene-d10	0.400	0.430	-7.5	66	0.00
28	Fluoranthene	0.400	0.436	-9.0	68	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	68	0.00
30	Pyrene	0.400	0.438	-9.5	68	0.00
31 S	Terphenyl-d14	0.400	0.414	-3.5	65	0.00
32	Benzo(a)anthracene	0.400	0.389	2.8	64	0.00
33	Chrysene	0.400	0.445	-11.2	71	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.447	-11.7	72	0.00
35 I	Perylene-d12	0.400	0.400	0.0	68	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.413	-3.2	65	-0.01
37	Benzo(b)fluoranthene	0.400	0.437	-9.2	70	0.00
38	Benzo(k)fluoranthene	0.400	0.439	-9.7	70	0.00
39 C	Benzo(a)pyrene	0.400	0.446	-11.5	71	0.00
40	Dibenzo(a,h)anthracene	0.400	0.419	-4.7	69	0.00
41	Benzo(g,h,i)perylene	0.400	0.423	-5.7	67	-0.01

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG No.: Q1582

Instrument ID: BNA_N Calibration Date/Time: 03/17/2025 21:02

Lab File ID: BN036668.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.600		0.8	20.0
Fluoranthene-d10	1.025	1.125		9.8	20.0
2-Fluorophenol	0.932	0.932		0.0	20.0
Phenol-d6	1.152	1.154		0.2	20.0
Nitrobenzene-d5	0.435	0.426		-2.1	20.0
2-Fluorobiphenyl	2.327	2.408		3.5	20.0
2,4,6-Tribromophenol	0.182	0.192		5.5	20.0
Terphenyl-d14	0.958	0.968		1.0	20.0
1,4-Dioxane	0.444	0.488		9.9	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
 Data File : BN036668.D
 Acq On : 17 Mar 2025 21:02
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/18/2025

Supervised By :Jagrut Upadhyay 03/18/2025

Quant Time: Mar 18 00:55:46 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Mar 10 16:06:28 2025

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1326	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	3375	0.400	ng	-0.01
13) Acenaphthene-d10	14.356	164	1969	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	3924	0.400	ng	-0.01
29) Chrysene-d12	21.295	240	2929	0.400	ng	0.00
35) Perylene-d12	23.543	264	2659	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	1236	0.400	ng	0.00
5) Phenol-d6	6.887	99	1530	0.401	ng	-0.01
8) Nitrobenzene-d5	8.865	82	1438	0.392	ng	-0.01
11) 2-Methylnaphthalene-d10	12.096	152	2025	0.403	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	378	0.423	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	4741	0.414	ng	0.00
27) Fluoranthene-d10	19.132	212	4416	0.439	ng	0.00
31) Terphenyl-d14	19.740	244	2835	0.404	ng	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	3.239	88	647	0.440	ng	92
3) n-Nitrosodimethylamine	3.550	42	1474	0.495	ng	# 85
6) bis(2-Chloroethyl)ether	7.139	93	1549	0.393	ng	98
9) Naphthalene	10.552	128	4011	0.404	ng	98
10) Hexachlorobutadiene	10.840	225	968	0.414	ng	# 97
12) 2-Methylnaphthalene	12.172	142	2540	0.402	ng	95
16) Acenaphthylene	14.067	152	3862	0.416	ng	99
17) Acenaphthene	14.420	154	2516	0.414	ng	98
18) Fluorene	15.403	166	3484	0.423	ng	100
20) 4,6-Dinitro-2-methylph...	15.499	198	313	0.458	ng	86
21) 4-Bromophenyl-phenylether	16.305	248	1052	0.428	ng	# 77
22) Hexachlorobenzene	16.416	284	1271	0.428	ng	94
23) Atrazine	16.578	200	865	0.439	ng	95
24) Pentachlorophenol	16.764	266	643	0.475	ng	98
25) Phenanthrene	17.136	178	5152	0.438	ng	100
26) Anthracene	17.235	178	4534	0.427	ng	99
28) Fluoranthene	19.164	202	5895	0.446	ng	99
30) Pyrene	19.527	202	6066	0.424	ng	100
32) Benzo(a)anthracene	21.277	228	4223	0.415	ng	99
33) Chrysene	21.331	228	4938	0.444	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	3370	0.465	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.826	276	3878	0.404	ng	# 93
37) Benzo(b)fluoranthene	22.867	252	4455m	0.460	ng	
38) Benzo(k)fluoranthene	22.911	252	4385	0.432	ng	96
39) Benzo(a)pyrene	23.446	252	3730	0.458	ng	# 91
40) Dibenzo(a,h)anthracene	25.844	278	2967	0.397	ng	96
41) Benzo(g,h,i)perylene	26.513	276	3542	0.414	ng	99

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

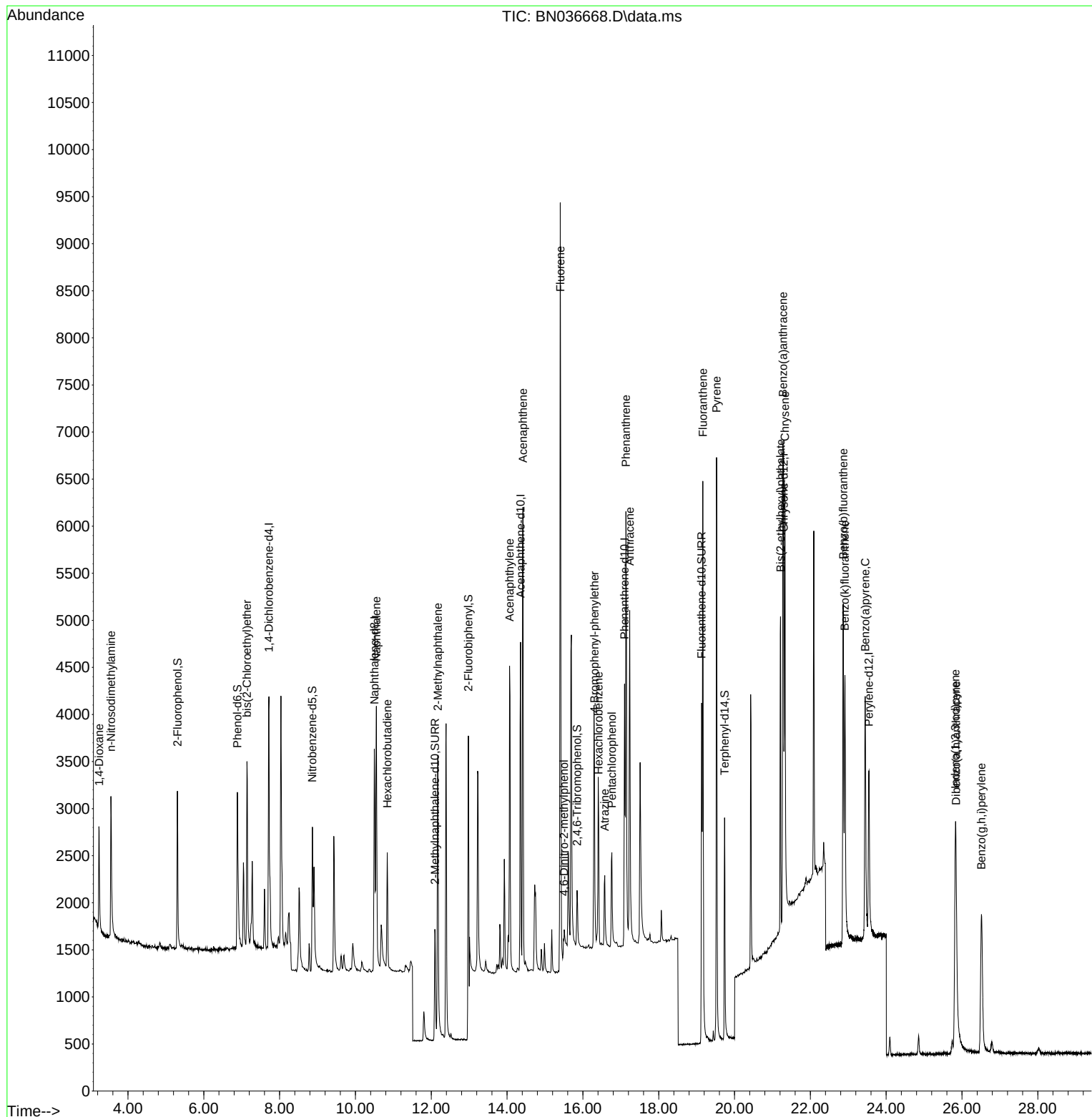
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036668.D
Acq On : 17 Mar 2025 21:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 18 Sample Multiplier: 1

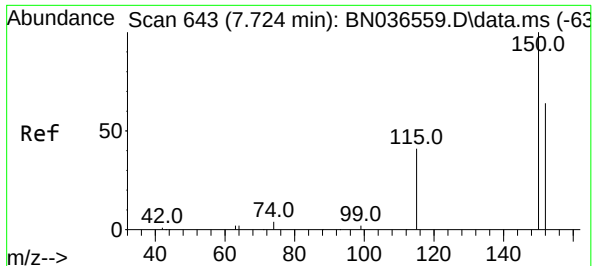
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 18 00:55:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

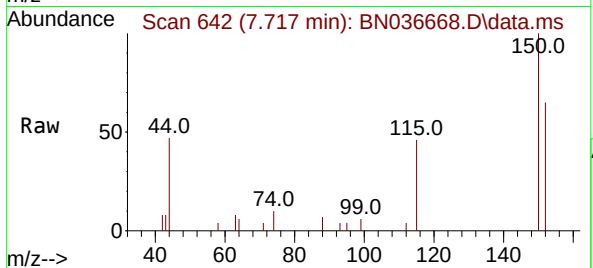
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

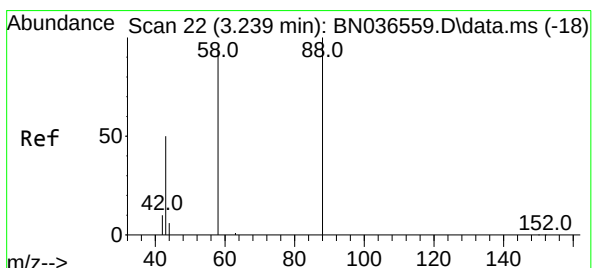
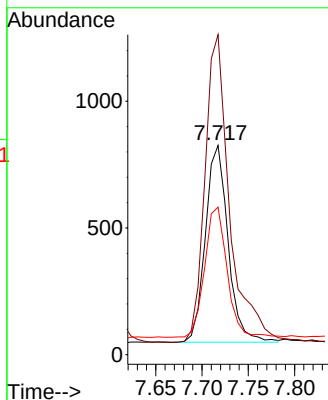
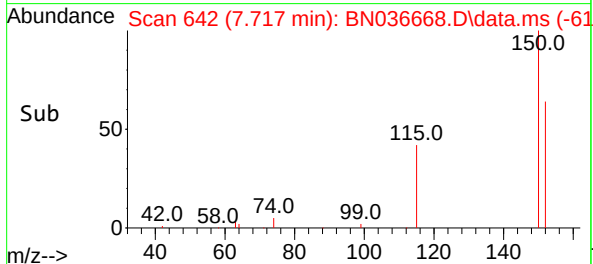
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 152 Resp: 1320
Ion Ratio Lower Upper
152 100
150 152.9 123.7 185.5
115 70.5 54.3 81.5

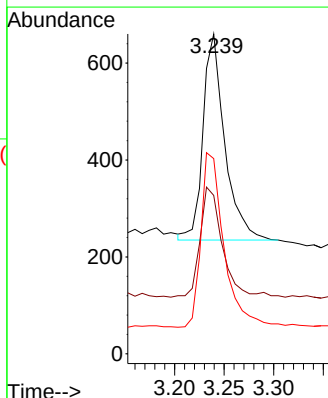
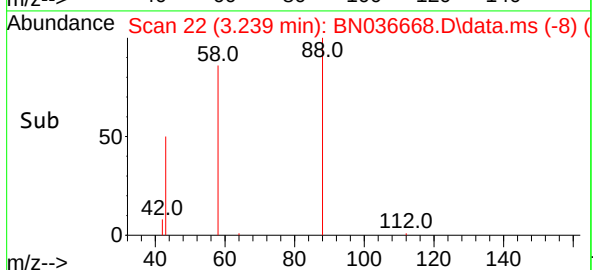
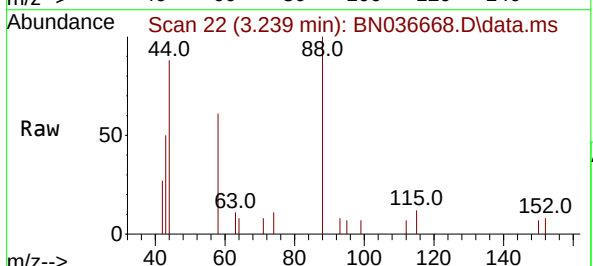
Manual Integrations
APPROVED

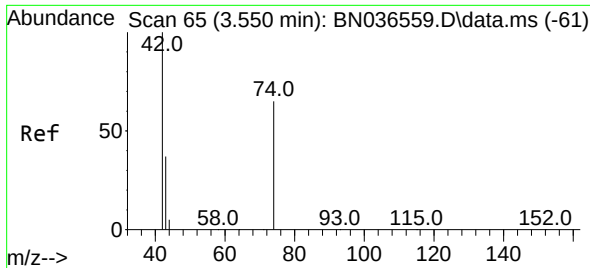
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#2
1,4-Dioxane
Concen: 0.440 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion: 88 Resp: 647
Ion Ratio Lower Upper
88 100
43 54.7 37.8 56.8
58 89.8 67.4 101.2





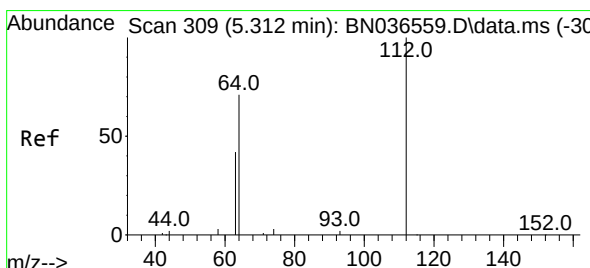
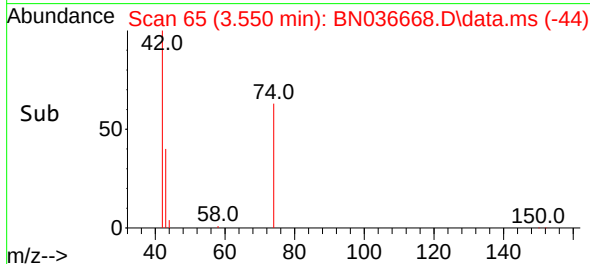
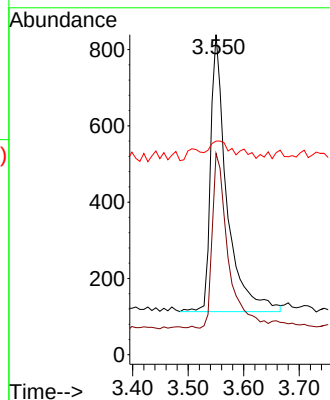
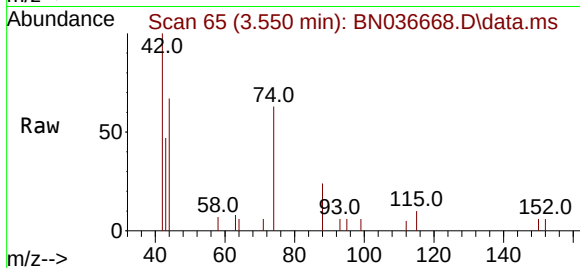
#3
n-Nitrosodimethylamine
Concen: 0.495 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1474
Ion Ratio Lower Upper
42 100
74 61.7 60.6 90.8
44 5.8 6.3 9.5

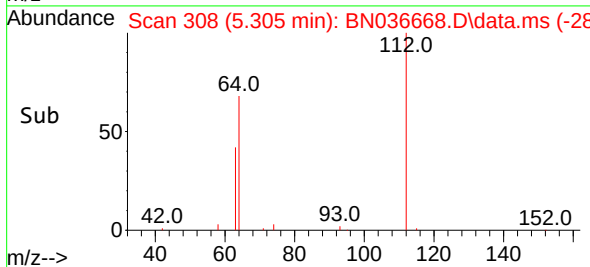
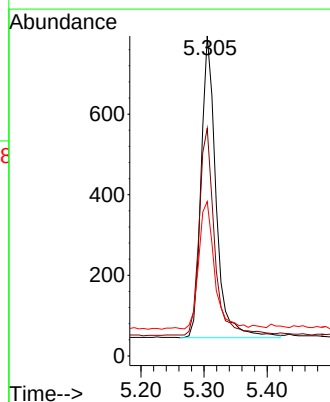
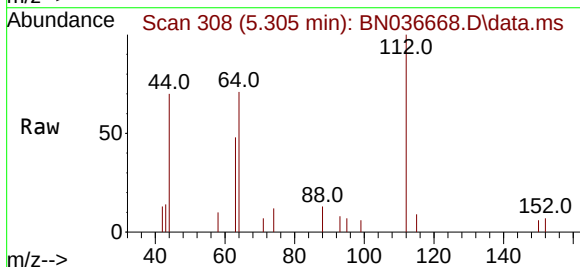
Manual Integrations
APPROVED

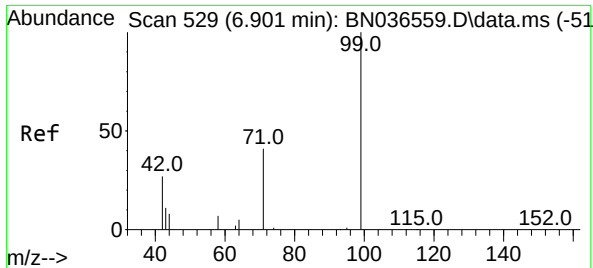
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#4
2-Fluorophenol
Concen: 0.400 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.007 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:112 Resp: 1236
Ion Ratio Lower Upper
112 100
64 69.2 53.1 79.7
63 43.9 31.8 47.8





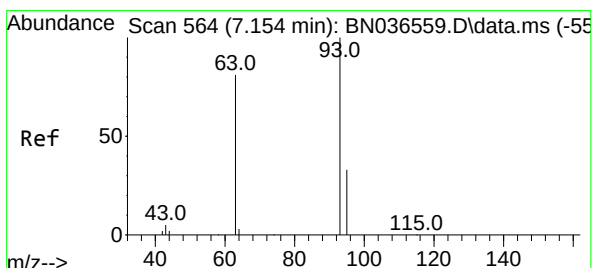
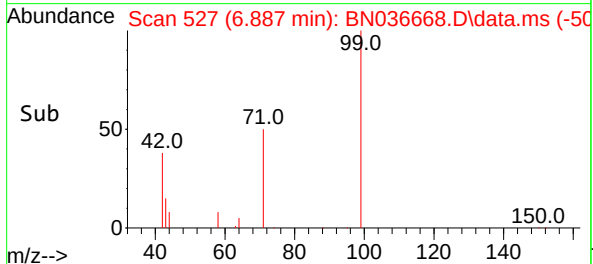
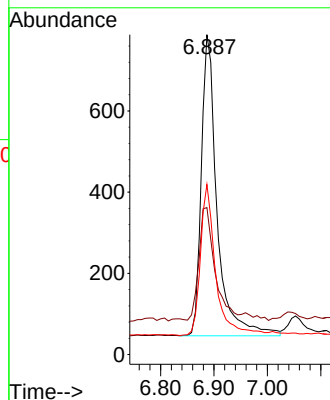
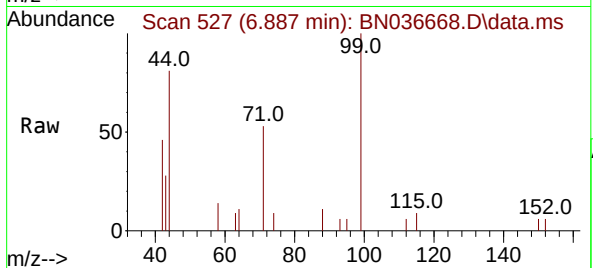
#5
Phenol-d6
Concen: 0.401 ng
RT: 6.887 min Scan# 51
Delta R.T. -0.014 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 1530
Ion Ratio Lower Upper
99 100
42 37.6 26.5 39.7
71 48.5 34.1 51.1

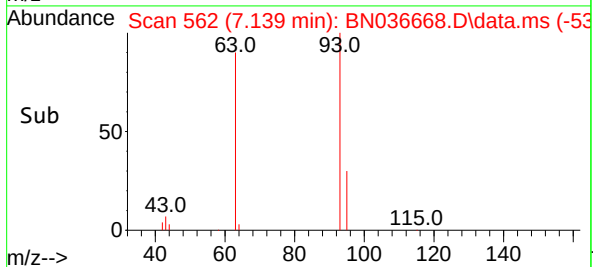
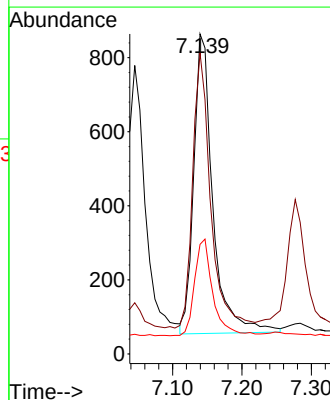
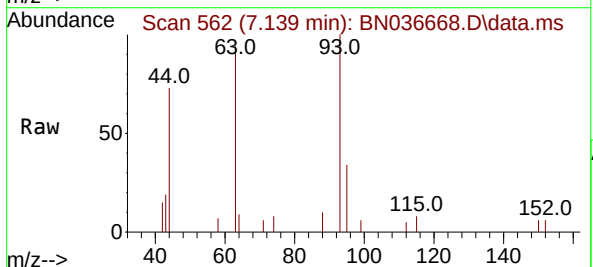
Manual Integrations
APPROVED

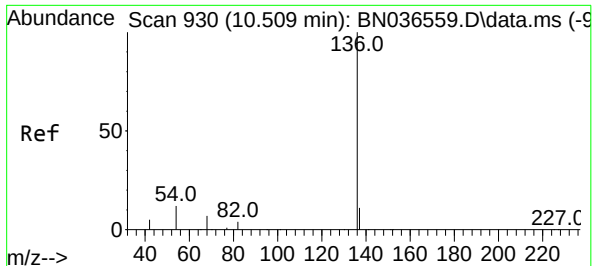
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.393 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.014 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

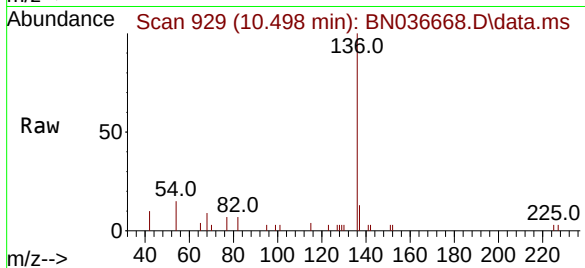
Tgt Ion: 93 Resp: 1549
Ion Ratio Lower Upper
93 100
63 85.9 67.7 101.5
95 31.0 25.6 38.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

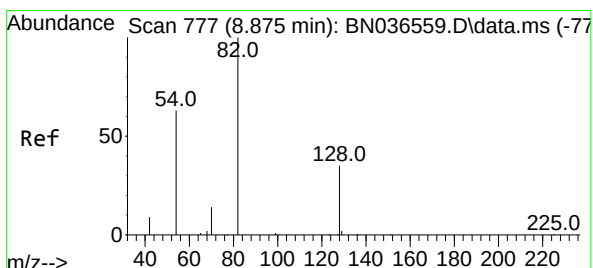
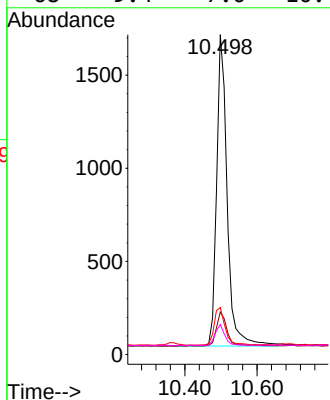
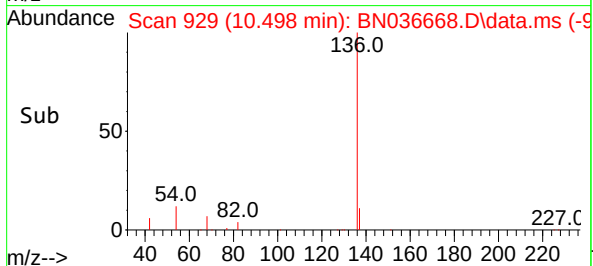
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 136 Resp: 337
Ion Ratio Lower Upper
136 100
137 13.3 10.3 15.5
54 14.7 11.5 17.3
68 9.4 7.0 10.4

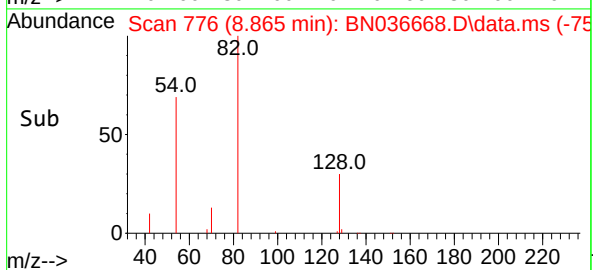
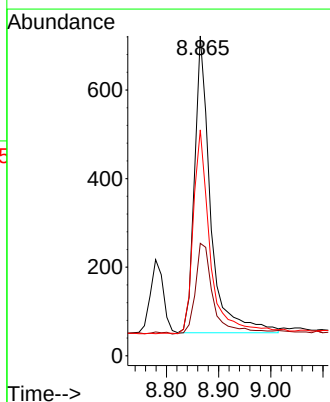
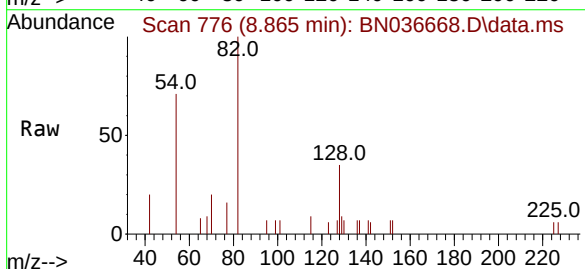
Manual Integrations
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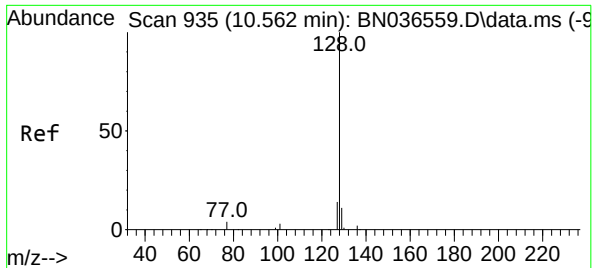
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#8
Nitrobenzene-d5
Concen: 0.392 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

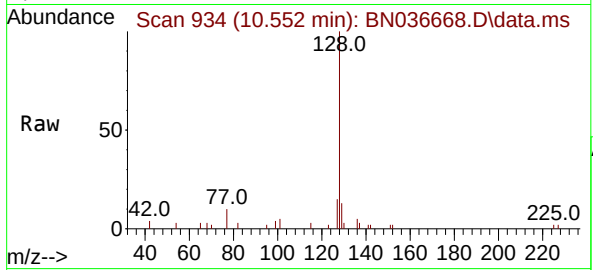
Tgt Ion: 82 Resp: 1438
Ion Ratio Lower Upper
82 100
128 35.2 30.6 45.8
54 70.6 52.2 78.4





#9
Naphthalene
Concen: 0.404 ng
RT: 10.552 min Scan# 911
Delta R.T. -0.010 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

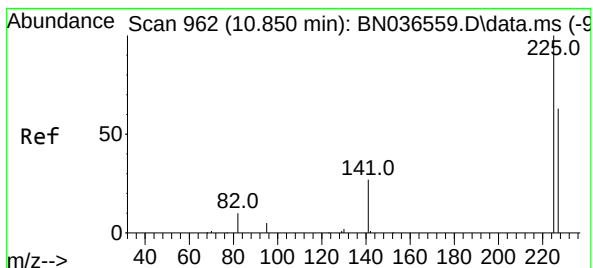
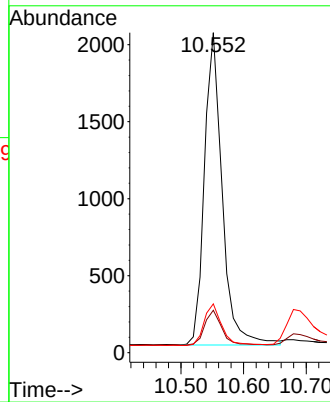
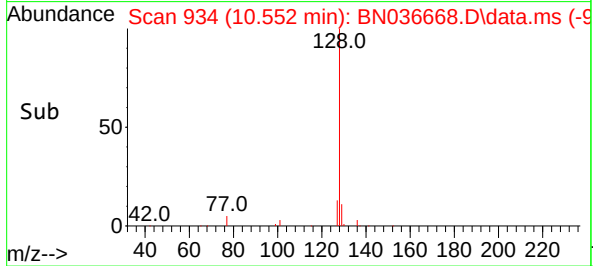
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:128 Resp: 401
Ion Ratio Lower Upper
128 100
129 13.3 9.8 14.6
127 15.3 11.8 17.8

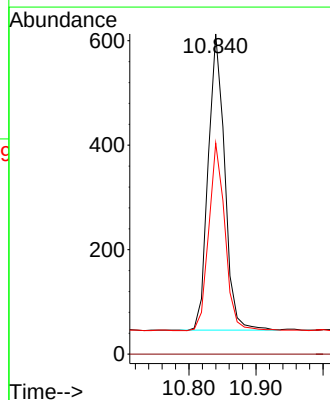
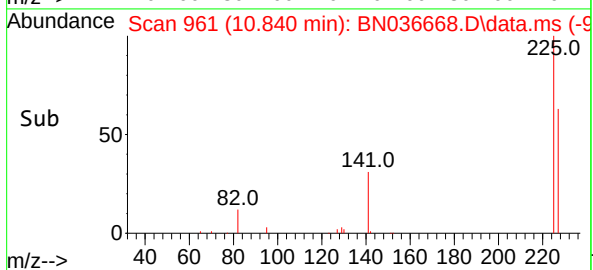
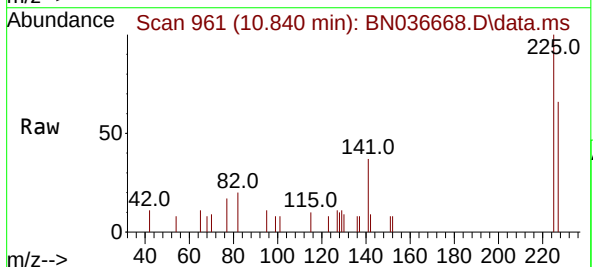
Manual Integrations
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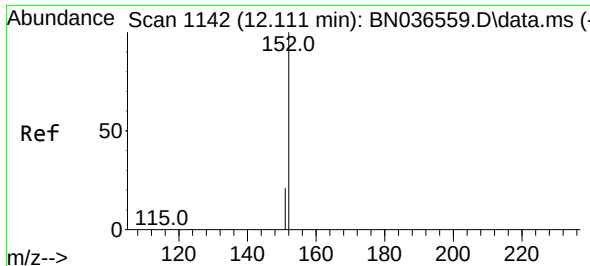
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#10
Hexachlorobutadiene
Concen: 0.414 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

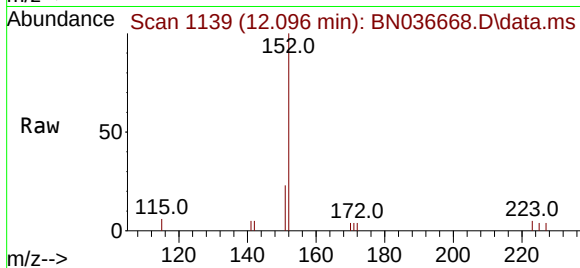
Tgt Ion:225 Resp: 968
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.7 51.8 77.8





#11
2-Methylnaphthalene-d10
Concen: 0.403 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

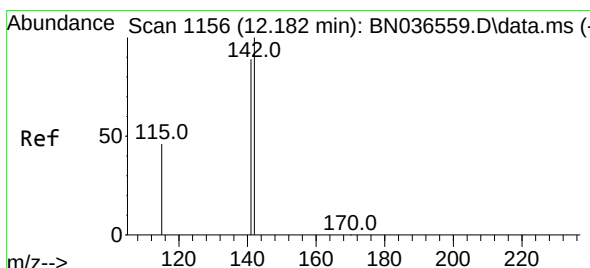
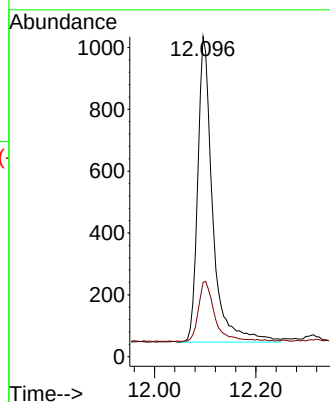
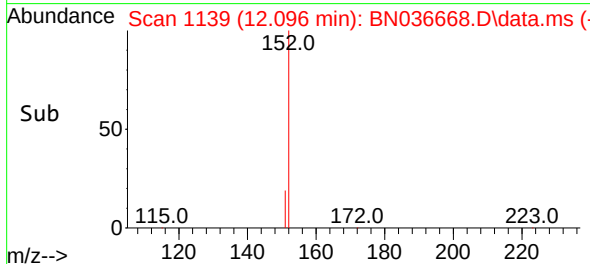
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:152 Resp: 2025
Ion Ratio Lower Upper
152 100
151 21.8 17.0 25.6

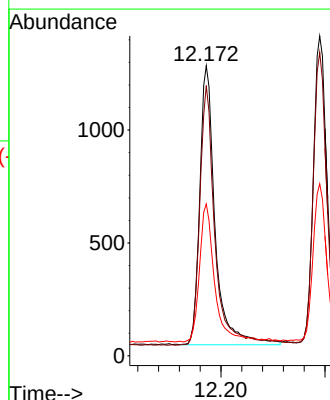
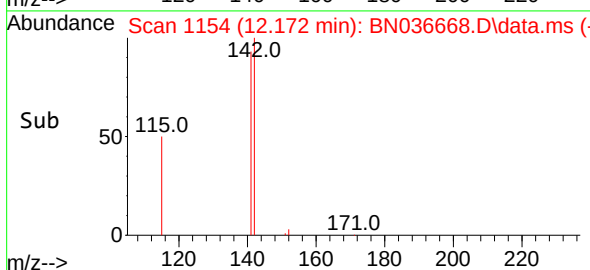
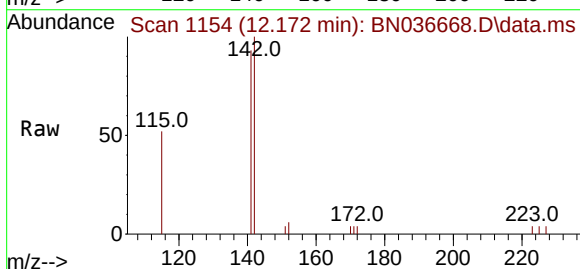
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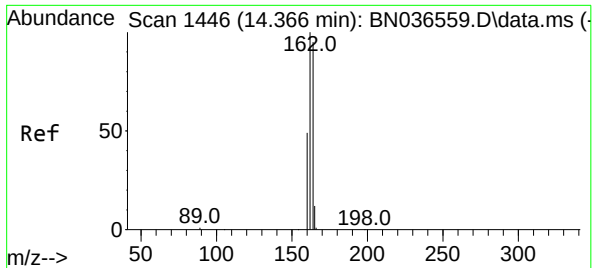
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#12
2-Methylnaphthalene
Concen: 0.402 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

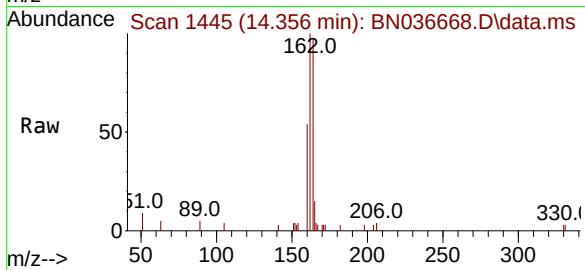
Tgt Ion:142 Resp: 2540
Ion Ratio Lower Upper
142 100
141 93.2 71.7 107.5
115 52.4 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

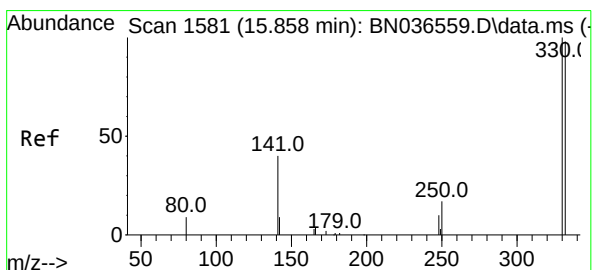
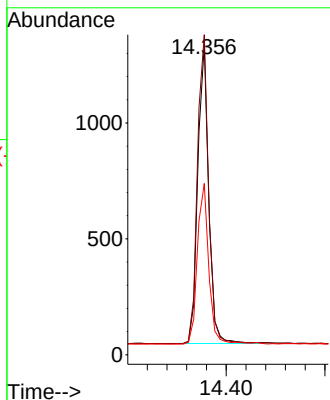
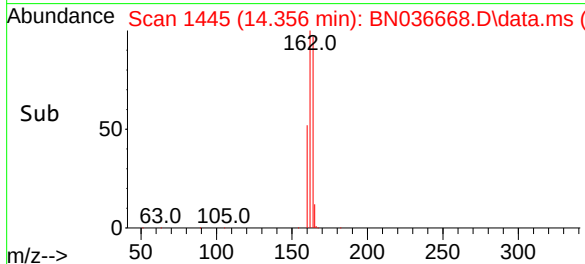
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



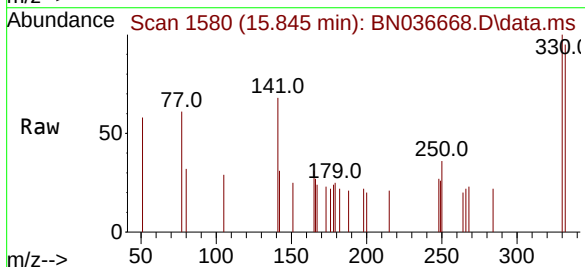
Tgt Ion:164 Resp: 1969
Ion Ratio Lower Upper
164 100
162 103.3 84.2 126.2
160 55.3 42.2 63.2

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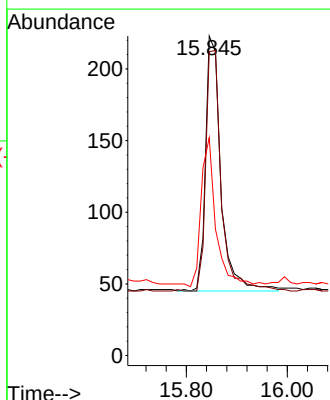
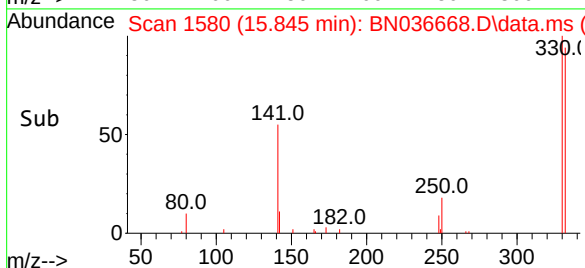
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

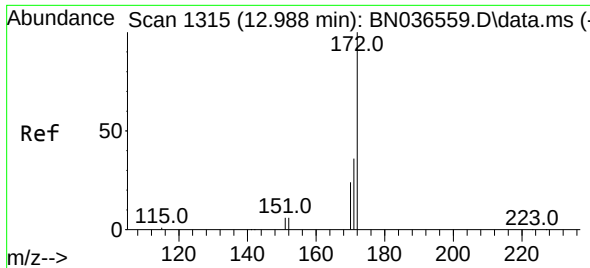


#14
2,4,6-Tribromophenol
Concen: 0.423 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02



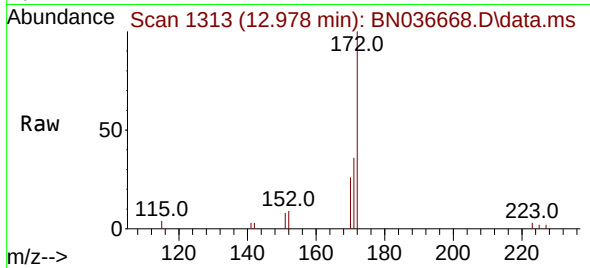
Tgt Ion:330 Resp: 378
Ion Ratio Lower Upper
330 100
332 94.7 75.2 112.8
141 52.1 43.4 65.2





#15
2-Fluorobiphenyl
Concen: 0.414 ng
RT: 12.978 min Scan# 1313
Delta R.T. -0.010 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

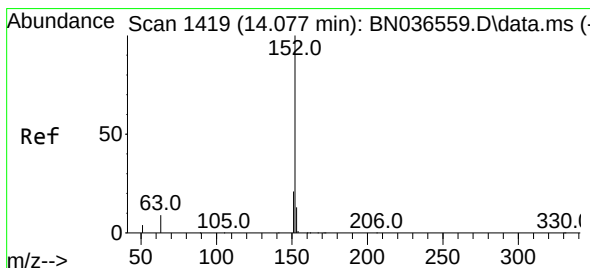
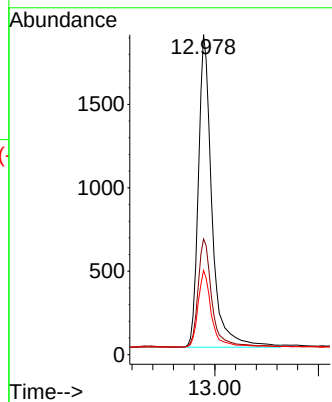
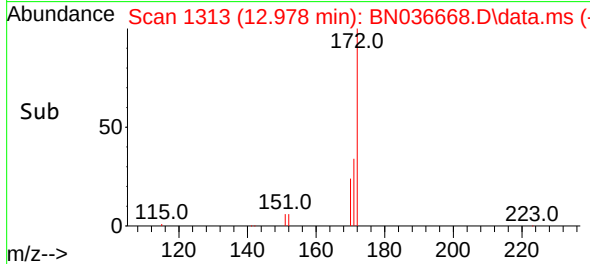
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:172 Resp: 474
Ion Ratio Lower Upper
172 100
171 36.1 29.5 44.3
170 26.3 20.2 30.4

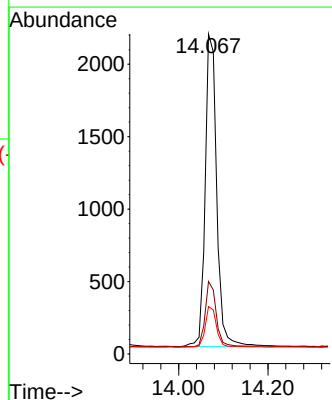
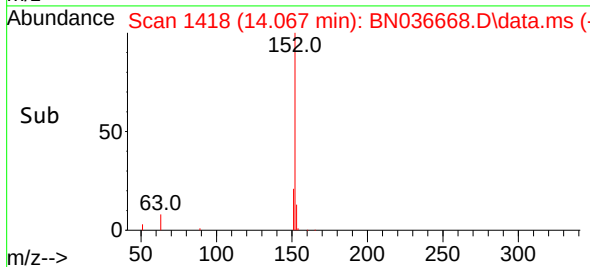
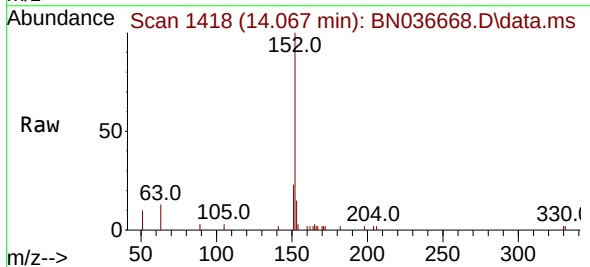
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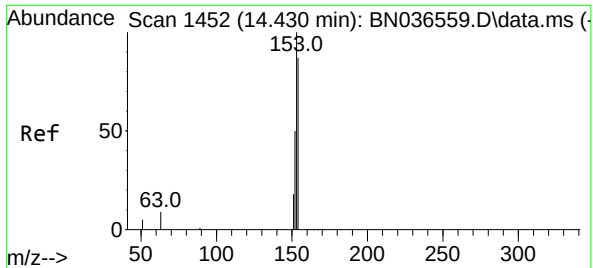
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#16
Acenaphthylene
Concen: 0.416 ng
RT: 14.067 min Scan# 1418
Delta R.T. -0.011 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:152 Resp: 3862
Ion Ratio Lower Upper
152 100
151 19.7 16.2 24.4
153 12.8 10.6 15.8





#17

Acenaphthene

Concen: 0.414 ng

RT: 14.420 min Scan# 1451

Delta R.T. -0.011 min

Lab File: BN036668.D

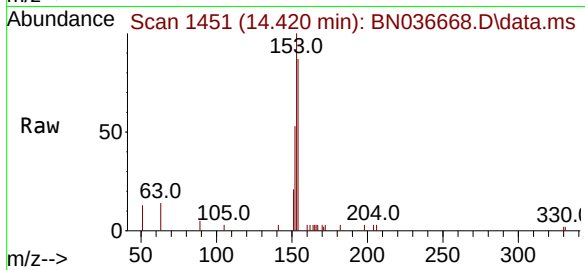
Acq: 17 Mar 2025 21:02

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

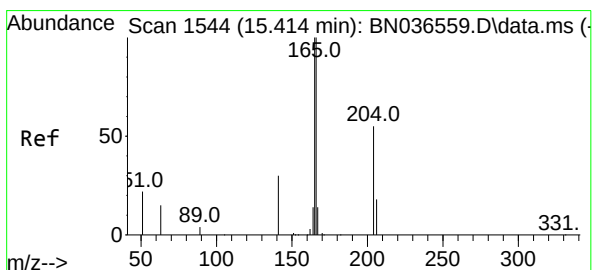
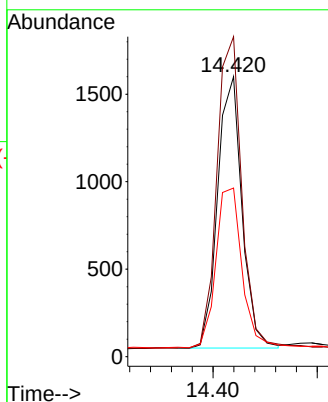
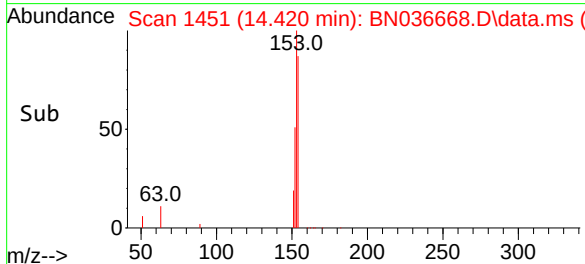


Tgt Ion:	154	Resp:	2510
Ion	Ratio	Lower	Upper
154	100		
153	119.2	94.1	141.1
152	65.2	49.8	74.6

Manual Integrations

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Supervised By :Jagrut Upadhyay 03/18/2025



#18

Fluorene

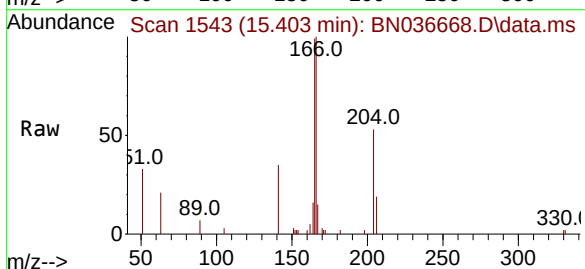
Concen: 0.423 ng

RT: 15.403 min Scan# 1543

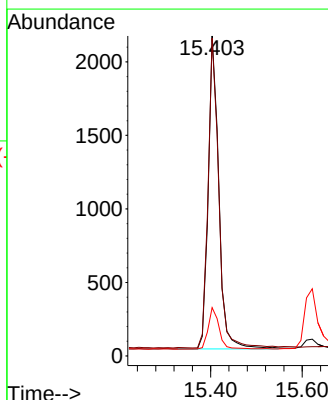
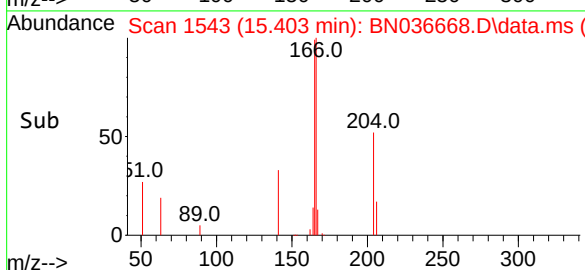
Delta R.T. -0.011 min

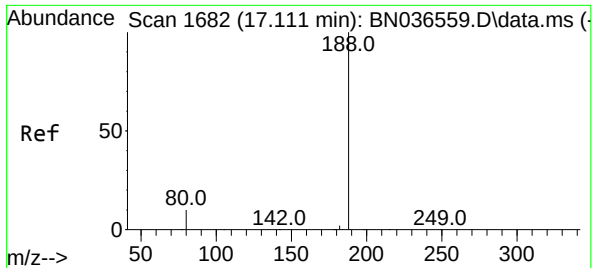
Lab File: BN036668.D

Acq: 17 Mar 2025 21:02



Tgt Ion:	166	Resp:	3484
Ion	Ratio	Lower	Upper
166	100		
165	99.9	79.8	119.8
167	13.3	10.6	15.8





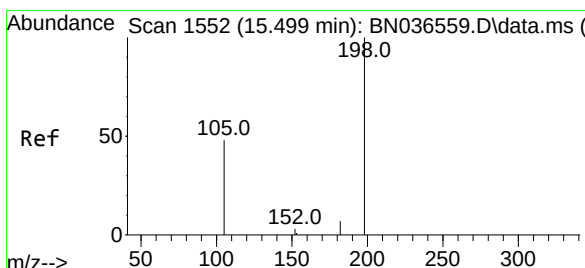
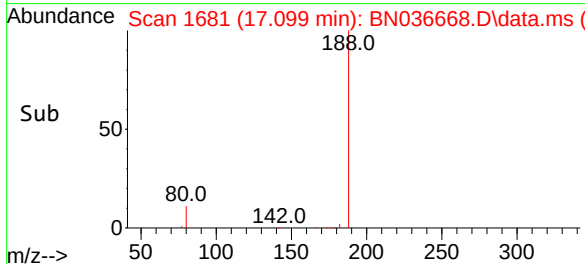
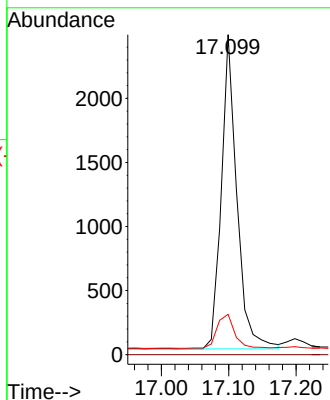
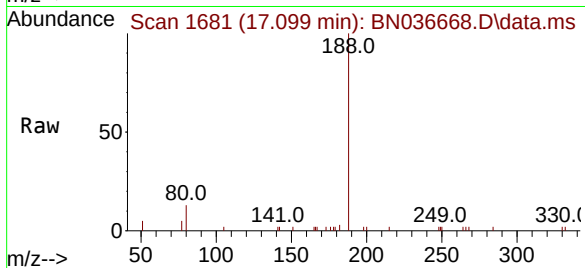
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1682
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 3924
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.6 8.8 13.2

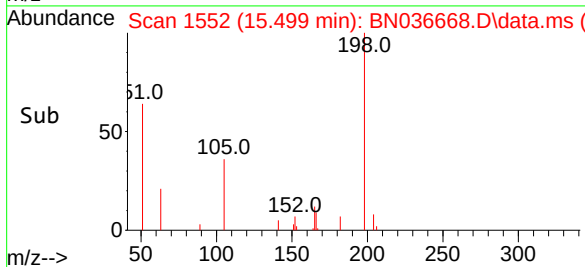
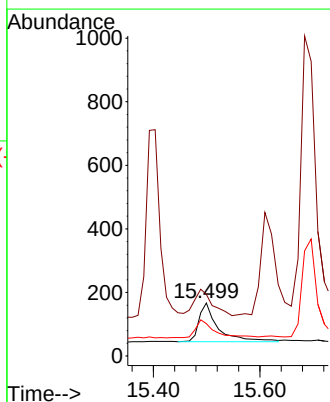
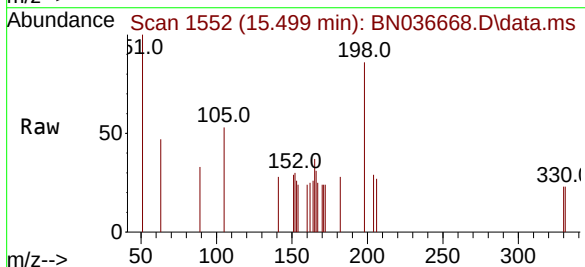
Manual Integrations
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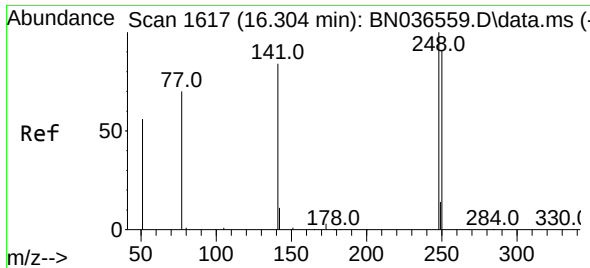
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#20
4,6-Dinitro-2-methylphenol
Concen: 0.458 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:198 Resp: 313
Ion Ratio Lower Upper
198 100
51 116.2 107.9 161.9
105 61.1 56.2 84.2





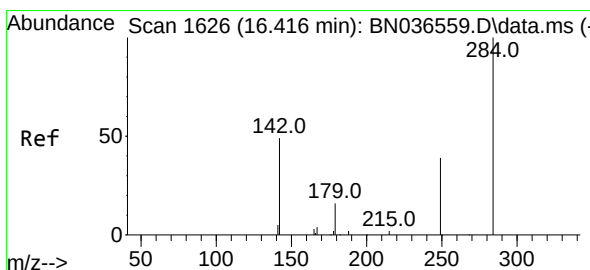
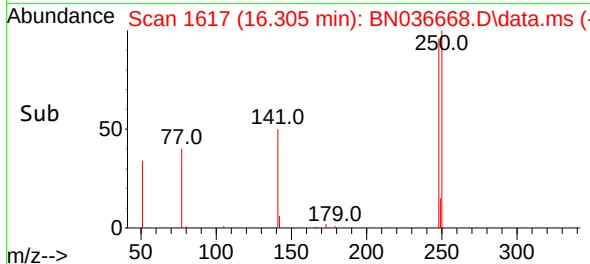
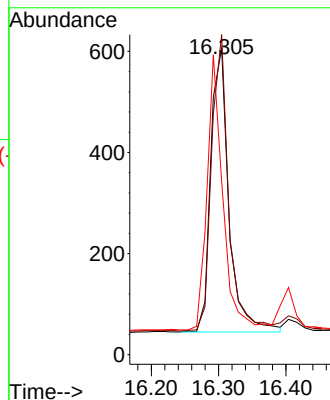
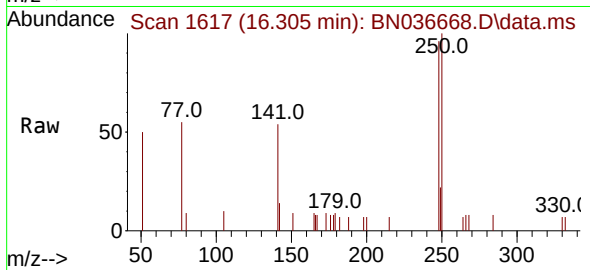
#21
4-Bromophenyl-phenylether
Concen: 0.428 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 1052
Ion Ratio Lower Upper
248 100
250 104.5 73.0 109.6
141 56.6 68.6 103.0

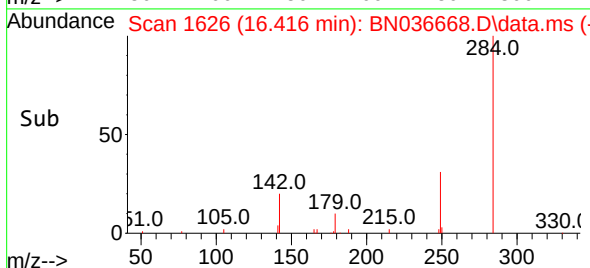
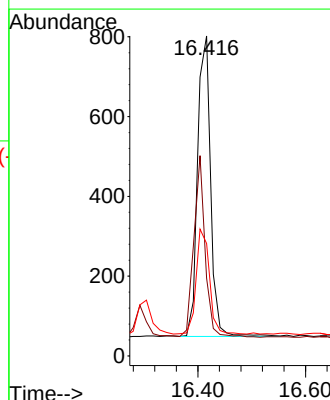
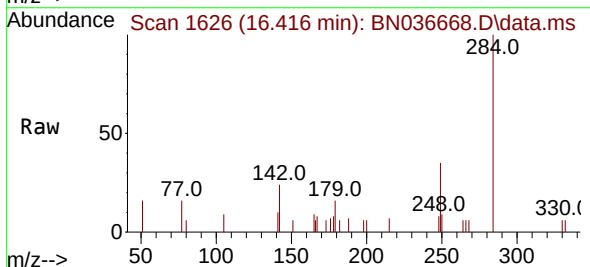
Manual Integrations
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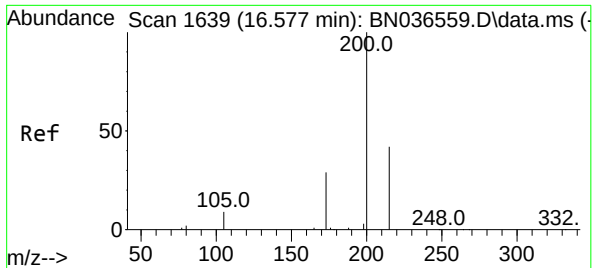
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#22
Hexachlorobenzene
Concen: 0.428 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:284 Resp: 1271
Ion Ratio Lower Upper
284 100
142 52.7 37.0 55.4
249 35.7 28.1 42.1





#23

Atrazine

Concen: 0.439 ng

RT: 16.578 min Scan# 1639

Delta R.T. 0.000 min

Lab File: BN036668.D

Acq: 17 Mar 2025 21:02

Instrument :

BNA_N

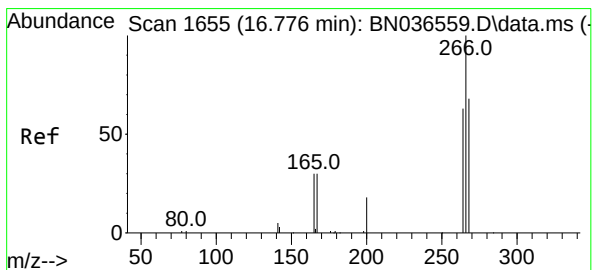
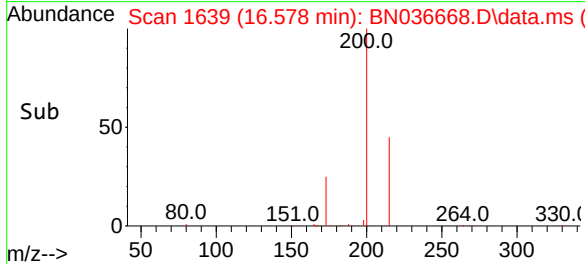
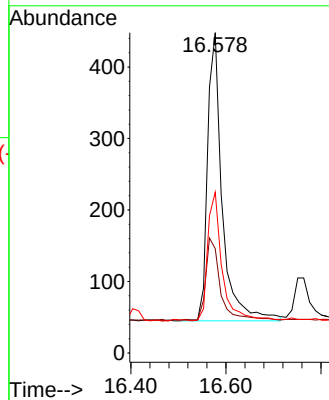
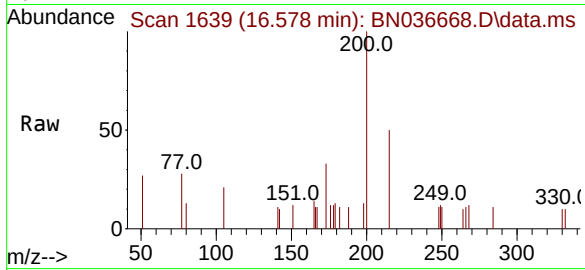
ClientSampleId :

SSTDCCC0.4

Tgt Ion:	200	Resp:	86
Ion	Ratio	Lower	Upper
200	100		
173	32.6	27.3	40.9
215	50.2	36.8	55.2

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Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#24

Pentachlorophenol

Concen: 0.475 ng

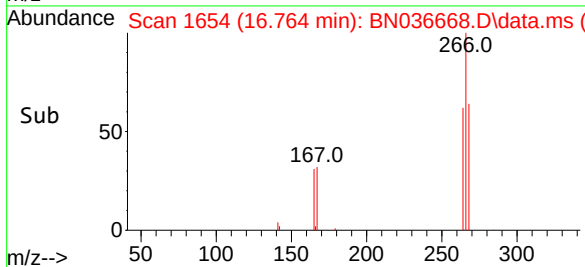
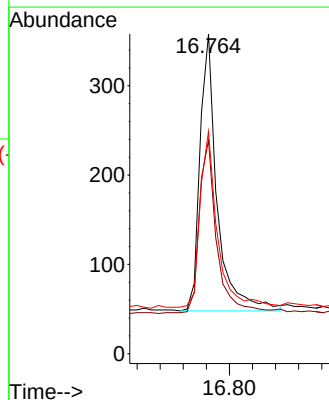
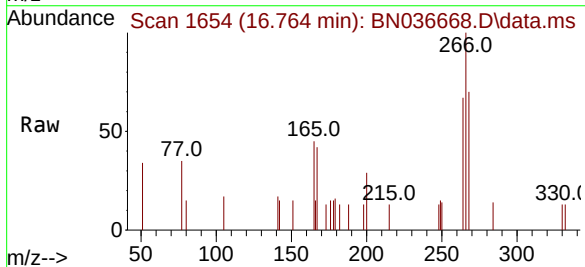
RT: 16.764 min Scan# 1654

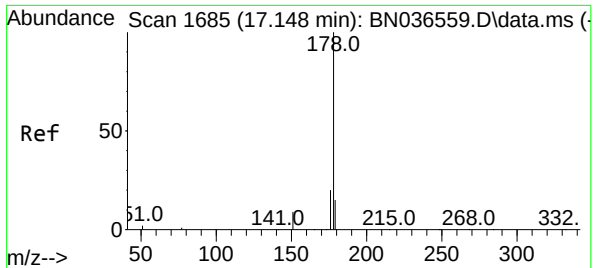
Delta R.T. -0.012 min

Lab File: BN036668.D

Acq: 17 Mar 2025 21:02

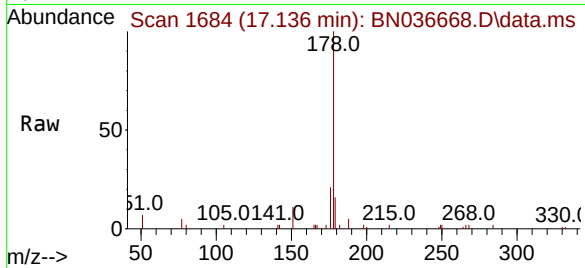
Tgt Ion:	266	Resp:	643
Ion	Ratio	Lower	Upper
266	100		
264	64.7	49.6	74.4
268	63.9	50.9	76.3





#25
Phenanthrene
Concen: 0.438 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

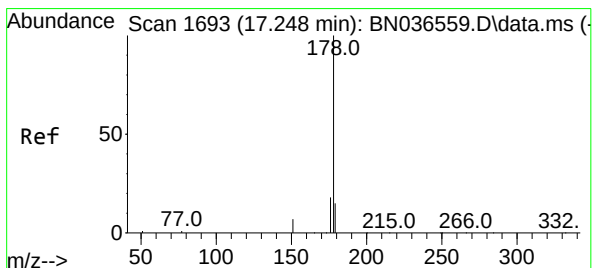
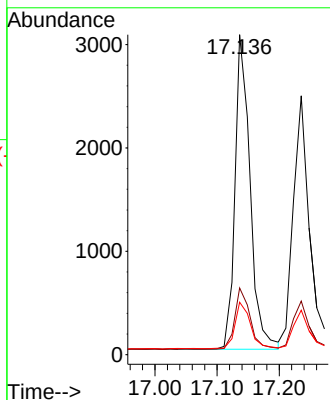
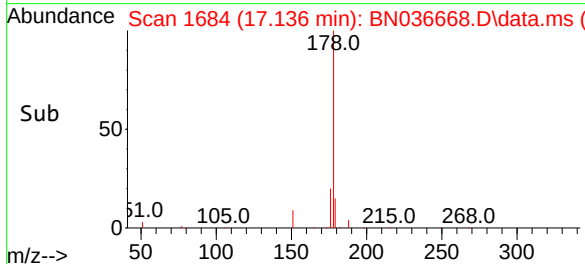
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:178 Resp: 5152
Ion Ratio Lower Upper
178 100
176 19.7 15.9 23.9
179 15.0 12.2 18.4

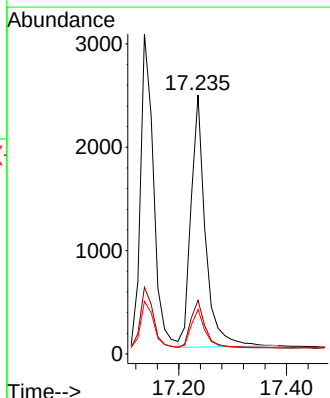
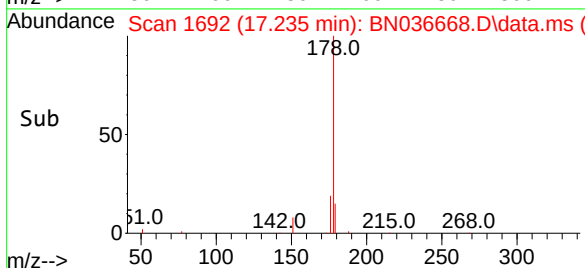
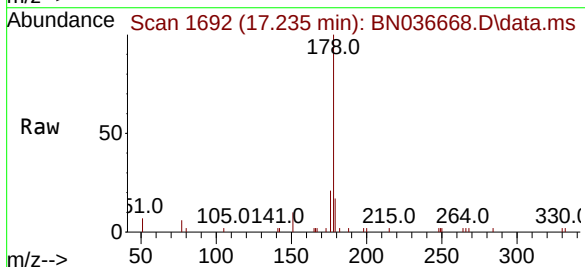
Manual Integrations
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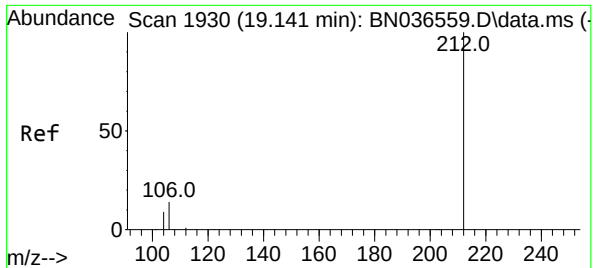
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#26
Anthracene
Concen: 0.427 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

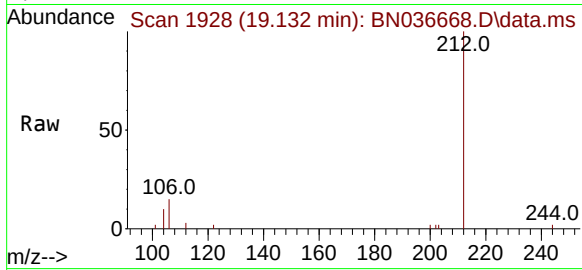
Tgt Ion:178 Resp: 4534
Ion Ratio Lower Upper
178 100
176 19.6 15.4 23.2
179 14.9 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.439 ng
RT: 19.132 min Scan# 1930
Delta R.T. -0.009 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

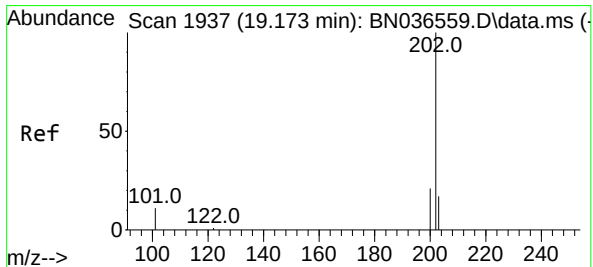
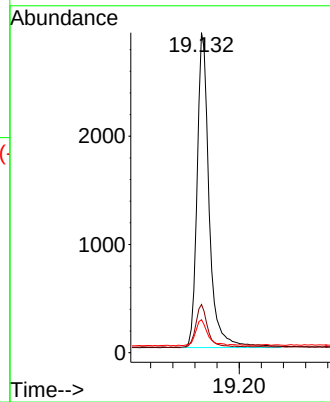
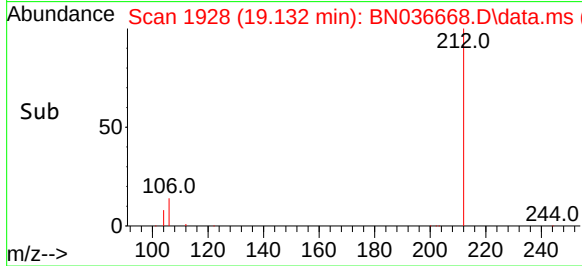
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



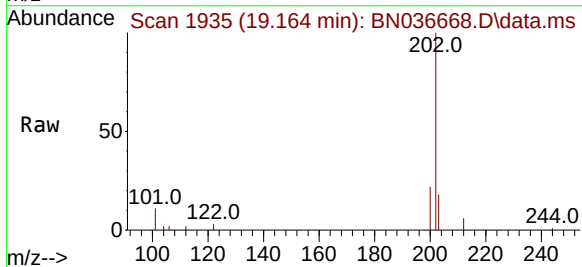
Tgt Ion:212 Resp: 4410
Ion Ratio Lower Upper
212 100
106 13.4 11.8 17.6
104 8.0 7.3 10.9

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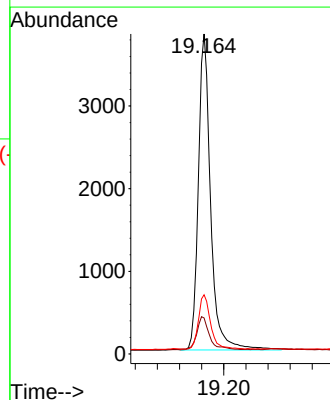
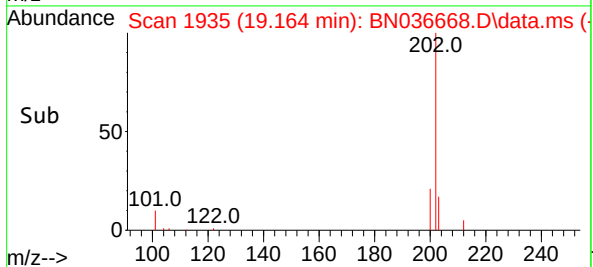
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

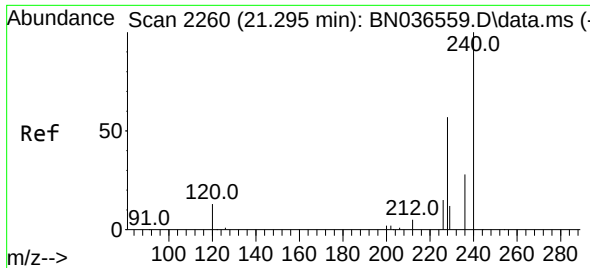


#28
Fluoranthene
Concen: 0.446 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02



Tgt Ion:202 Resp: 5895
Ion Ratio Lower Upper
202 100
101 10.6 9.4 14.0
203 16.9 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036668.D

Acq: 17 Mar 2025 21:02

Instrument :

BNA_N

ClientSampleId :

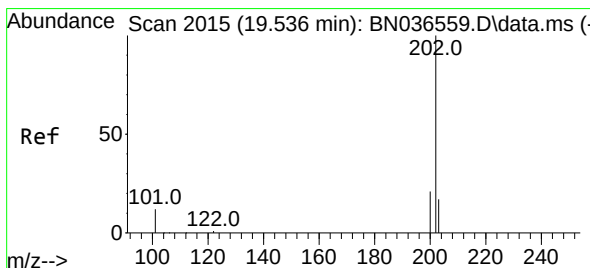
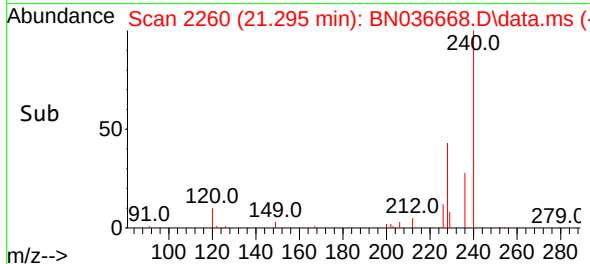
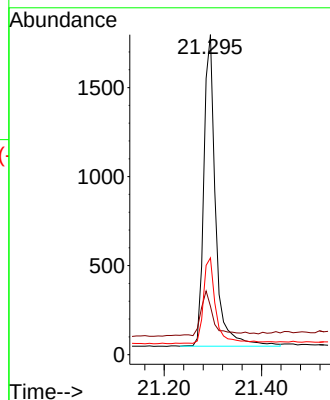
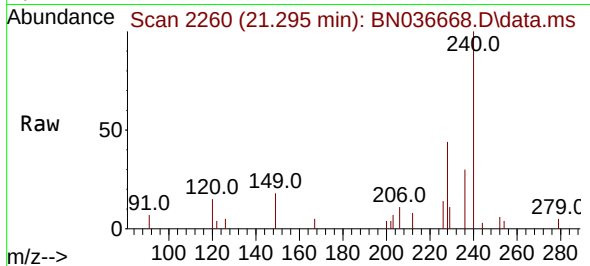
SSTDCCC0.4

Tgt Ion:	240	Resp:	2929
Ion Ratio	Lower	Upper	
240	100		
120	15.1	14.6	22.0
236	30.3	24.1	36.1

Manual Integrations

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Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#30

Pyrene

Concen: 0.424 ng

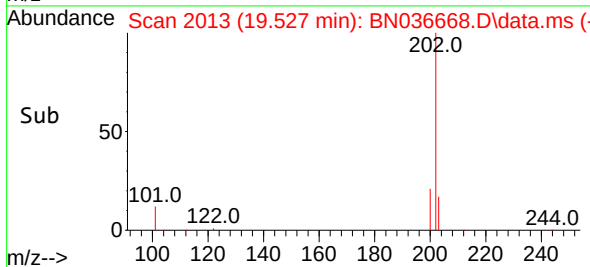
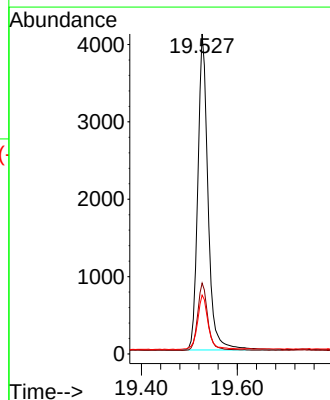
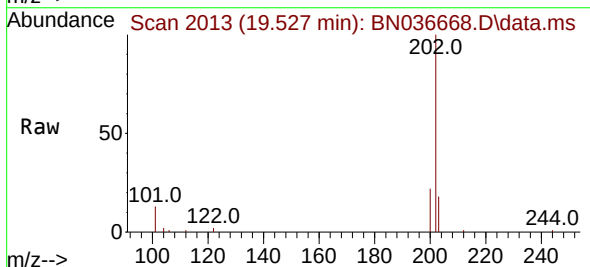
RT: 19.527 min Scan# 2013

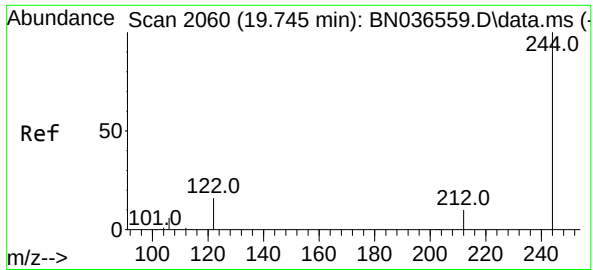
Delta R.T. -0.009 min

Lab File: BN036668.D

Acq: 17 Mar 2025 21:02

Tgt Ion:	202	Resp:	6066
Ion Ratio	Lower	Upper	
202	100		
200	21.4	17.1	25.7
203	17.9	14.1	21.1





#31
Terphenyl-d14
Concen: 0.404 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.004 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Instrument :

BNA_N

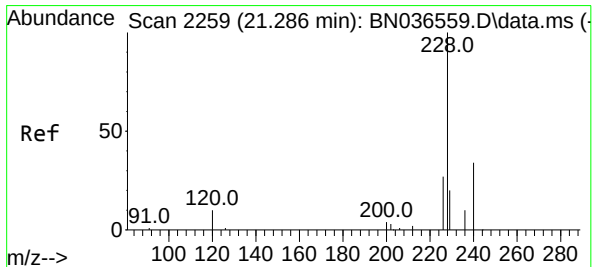
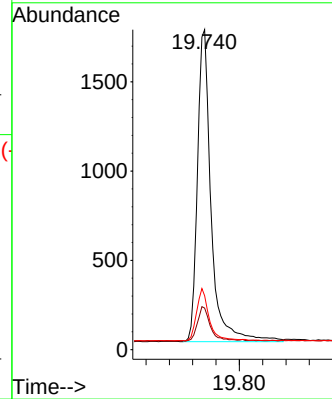
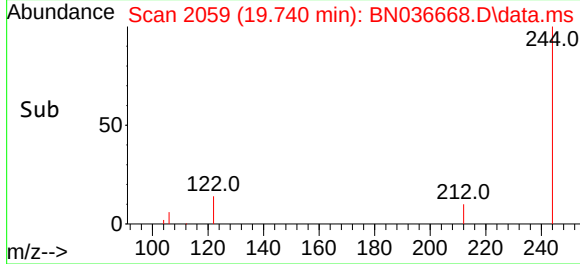
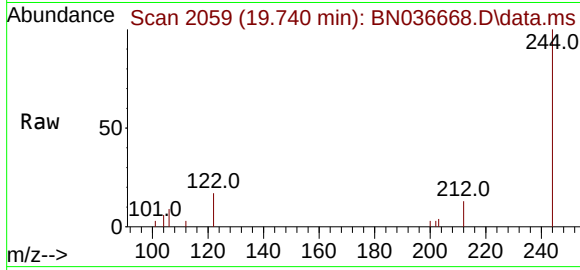
ClientSampleId :

SSTDCCC0.4

Tgt Ion:244 Resp: 2835
Ion Ratio Lower Upper
244 100
212 13.0 9.6 14.4
122 16.9 13.9 20.9

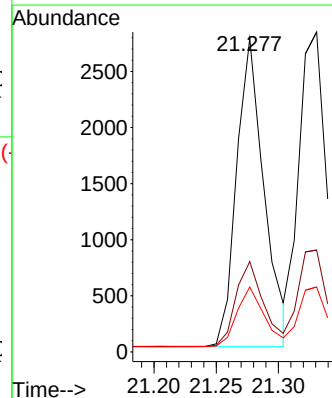
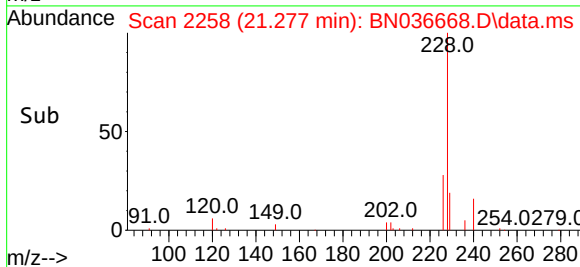
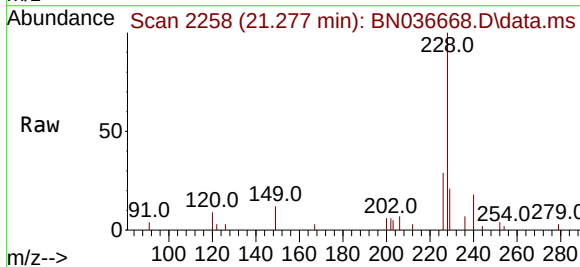
Manual Integrations
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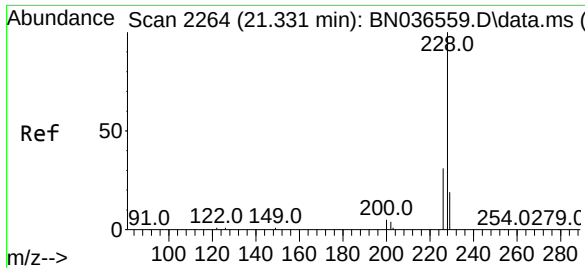
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#32
Benzo(a)anthracene
Concen: 0.415 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

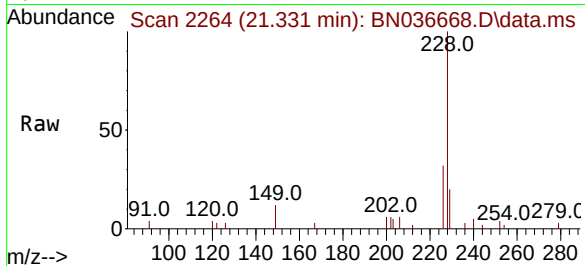
Tgt Ion:228 Resp: 4223
Ion Ratio Lower Upper
228 100
226 28.8 22.5 33.7
229 20.7 16.6 25.0





#33
Chrysene
Concen: 0.444 ng
RT: 21.331 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

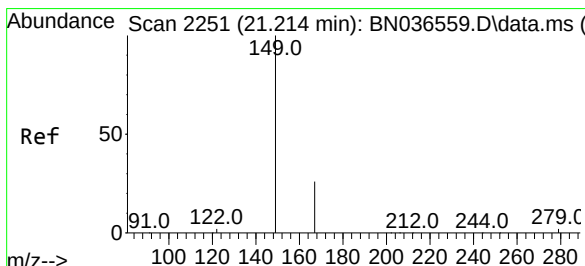
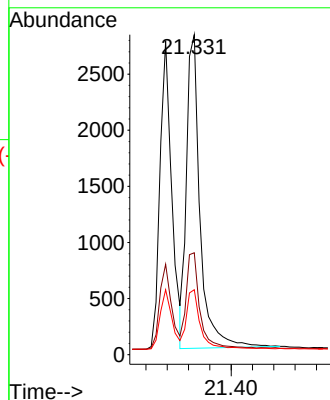
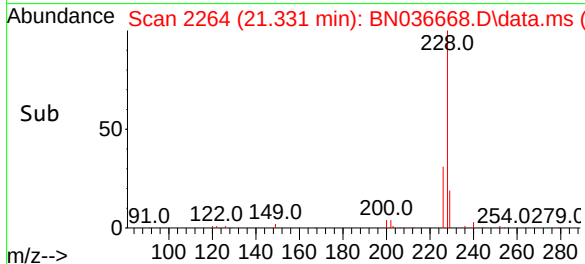
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



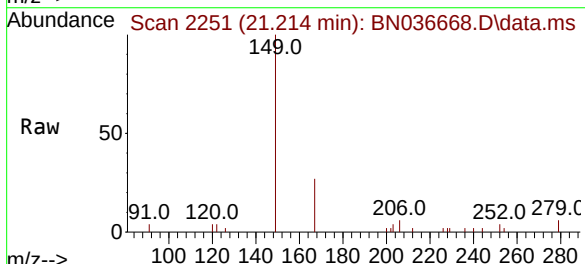
Tgt Ion: 228 Resp: 4938
Ion Ratio Lower Upper
228 100
226 31.8 25.3 37.9
229 20.3 15.8 23.8

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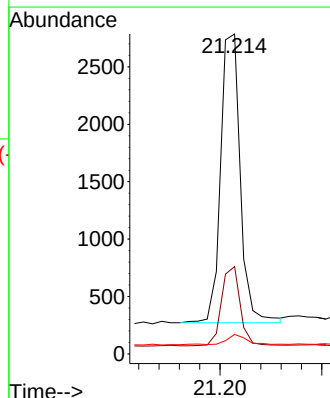
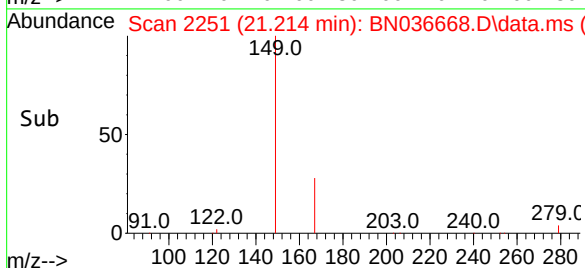
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

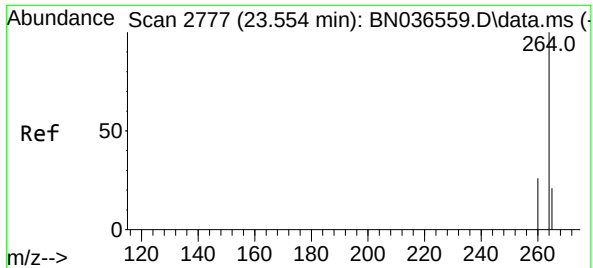


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.465 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02



Tgt Ion: 149 Resp: 3370
Ion Ratio Lower Upper
149 100
167 26.1 20.7 31.1
279 3.5 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.543 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN036668.D

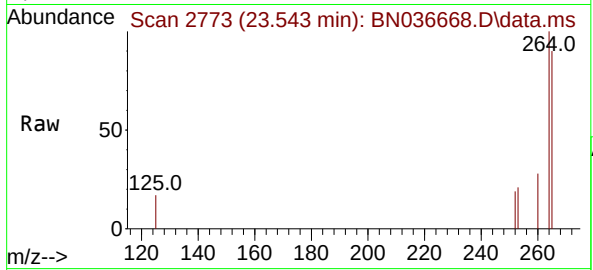
Acq: 17 Mar 2025 21:02

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:264 Resp: 2659

Ion Ratio Lower Upper

264 100

260 27.8 22.6 33.8

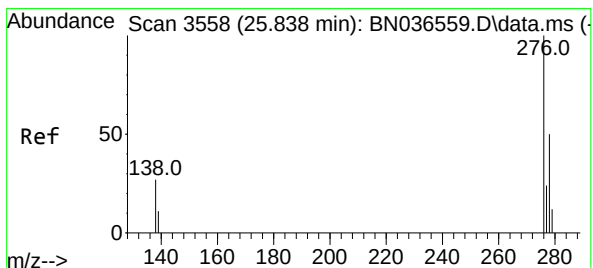
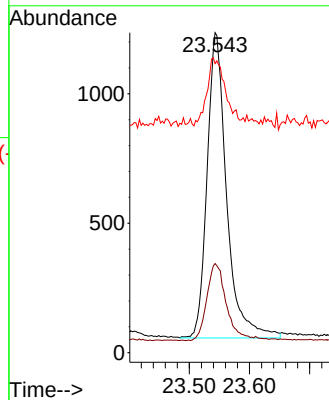
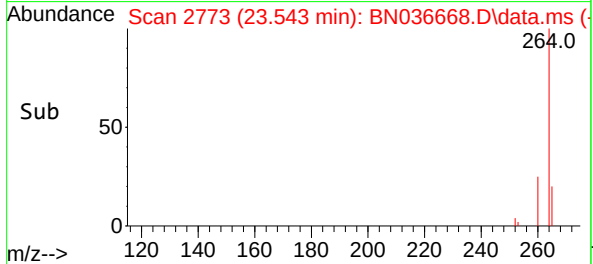
265 90.4 88.1 132.1

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Reviewed By :Anahy Claudio 03/18/2025

Supervised By :Jagrut Upadhyay 03/18/2025



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.404 ng

RT: 25.826 min Scan# 3554

Delta R.T. -0.012 min

Lab File: BN036668.D

Acq: 17 Mar 2025 21:02

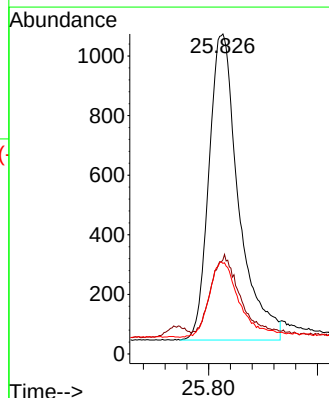
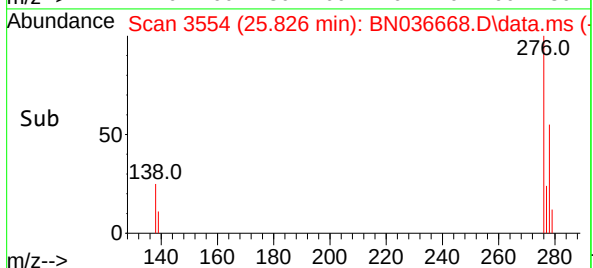
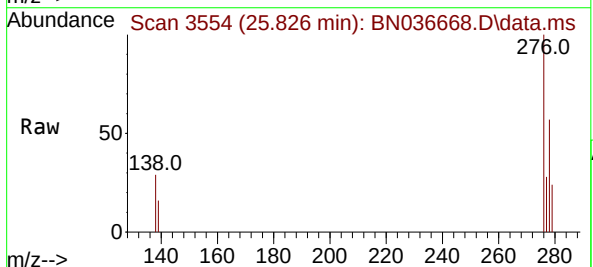
Tgt Ion:276 Resp: 3878

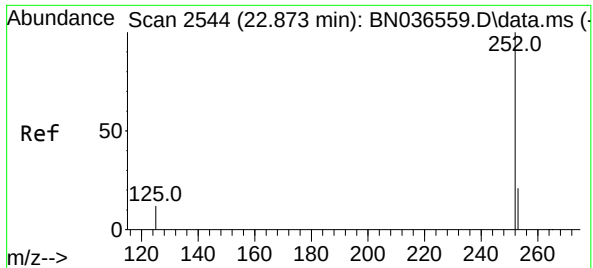
Ion Ratio Lower Upper

276 100

138 22.7 23.4 35.2#

277 25.7 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.460 ng m

RT: 22.867 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036668.D

Acq: 17 Mar 2025 21:02

Instrument :

BNA_N

ClientSampleId :

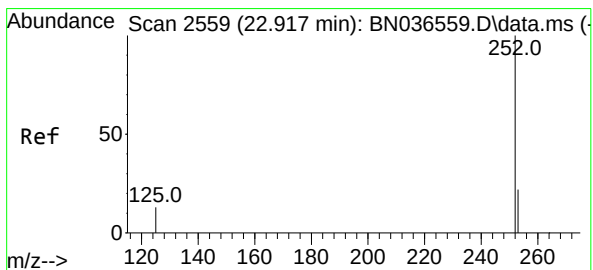
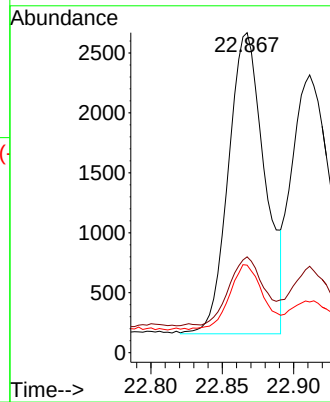
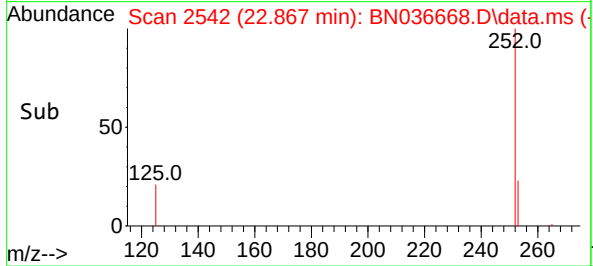
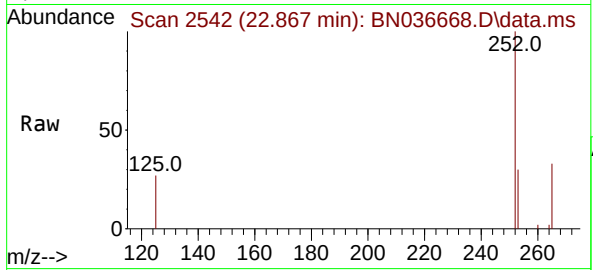
SSTDCCC0.4

Tgt Ion:	252	Resp:	445
Ion Ratio	Lower	Upper	
252	100		
253	29.9	23.9	35.9
125	27.4	17.4	26.2

Manual Integrations

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Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#38

Benzo(k)fluoranthene

Concen: 0.432 ng

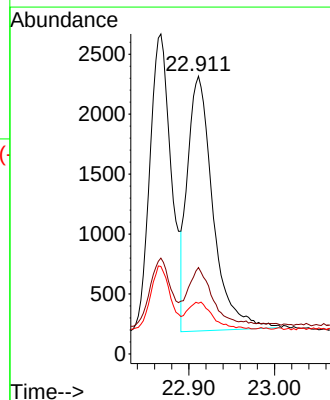
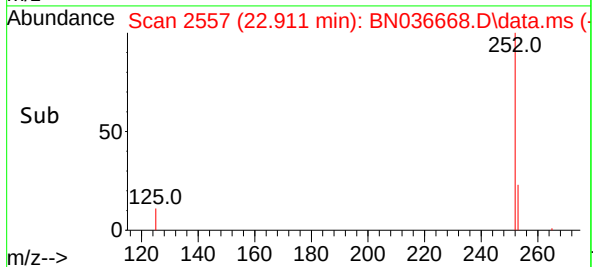
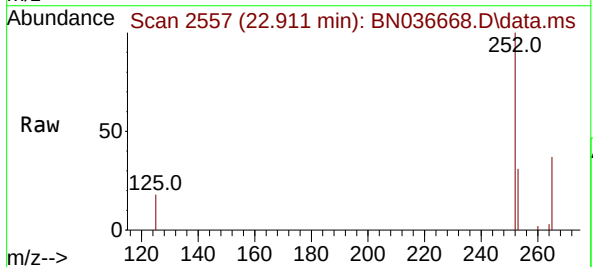
RT: 22.911 min Scan# 2557

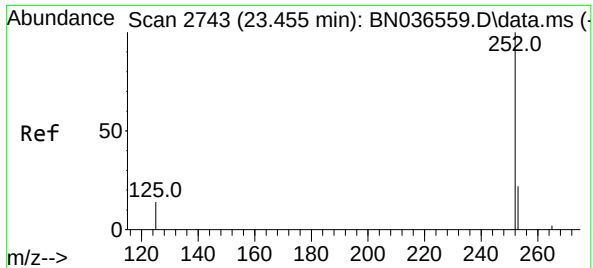
Delta R.T. -0.006 min

Lab File: BN036668.D

Acq: 17 Mar 2025 21:02

Tgt Ion:	252	Resp:	4385
Ion Ratio	Lower	Upper	
252	100		
253	31.1	24.6	36.8
125	18.3	17.8	26.8





#39

Benzo(a)pyrene

Concen: 0.458 ng

RT: 23.446 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036668.D

Acq: 17 Mar 2025 21:02

Instrument :

BNA_N

ClientSampleId :

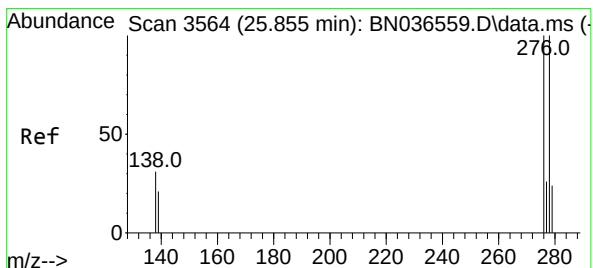
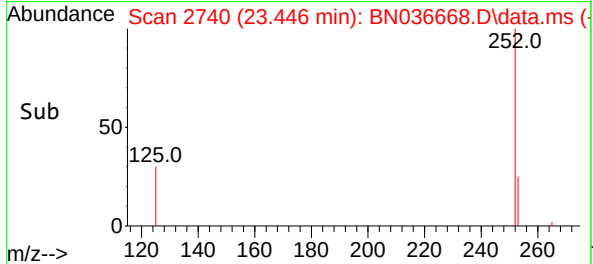
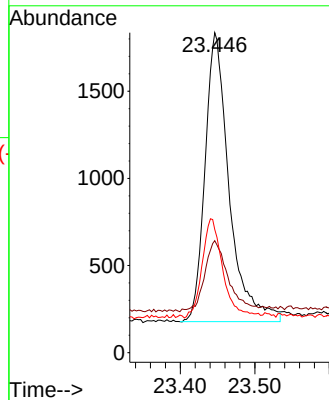
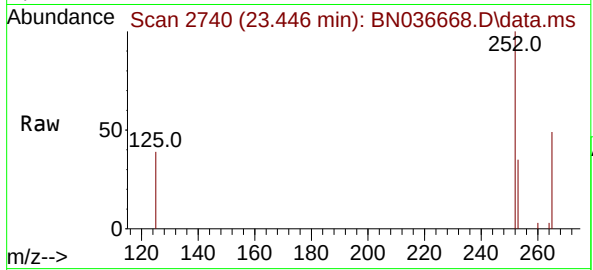
SSTDCCC0.4

Tgt Ion:	252	Resp:	3730
Ion Ratio	Lower	Upper	
252	100		
253	35.0	27.8	41.8
125	38.5	22.7	34.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.397 ng

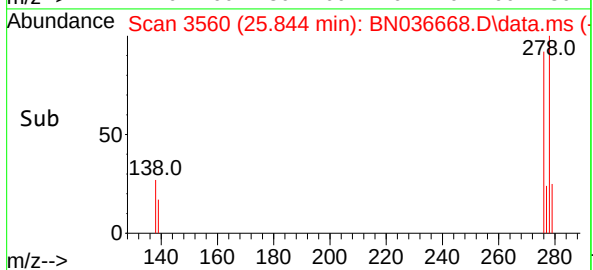
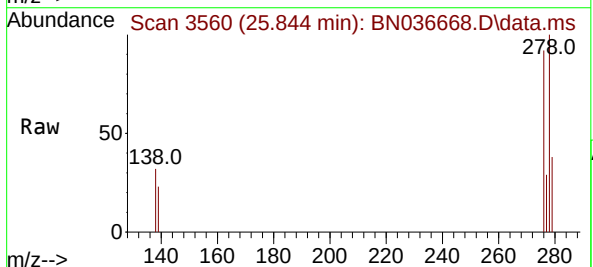
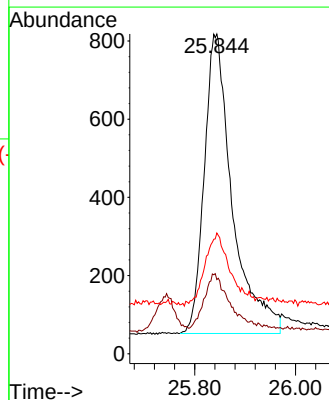
RT: 25.844 min Scan# 3560

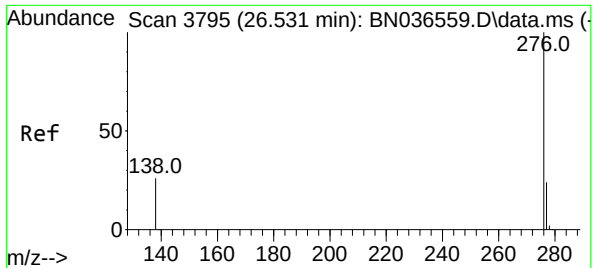
Delta R.T. -0.012 min

Lab File: BN036668.D

Acq: 17 Mar 2025 21:02

Tgt Ion:	278	Resp:	2967
Ion Ratio	Lower	Upper	
278	100		
139	23.2	20.8	31.2
279	37.8	28.8	43.2





#41

Benzo(g,h,i)perylene

Concen: 0.414 ng

RT: 26.513 min Scan# 31

Delta R.T. -0.017 min

Lab File: BN036668.D

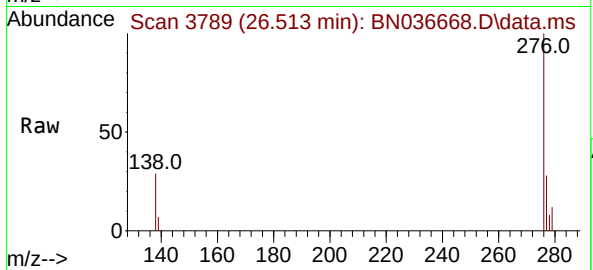
Acq: 17 Mar 2025 21:02

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion: 276 Resp: 354

Ion Ratio Lower Upper

276 100

277 27.5 22.2 33.4

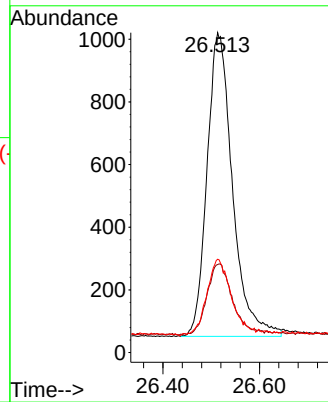
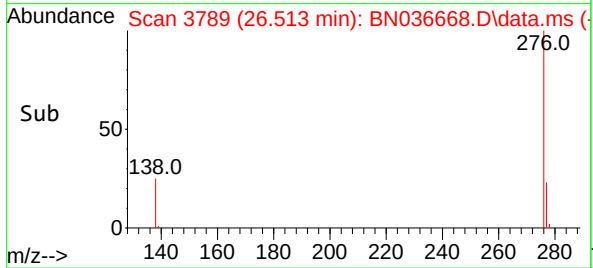
138 29.2 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/18/2025

Supervised By :Jagrut Upadhyay 03/18/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036668.D
Acq On : 17 Mar 2025 21:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 18 00:55:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	60	0.00
2	1,4-Dioxane	0.444	0.488	-9.9	59	0.00
3	n-Nitrosodimethylamine	0.898	1.112	-23.8	71	0.00
4 S	2-Fluorophenol	0.932	0.932	0.0	57	0.00
5 S	Phenol-d6	1.152	1.154	-0.2	61	-0.01
6	bis(2-Chloroethyl)ether	1.190	1.168	1.8	59	-0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	66	-0.01
8 S	Nitrobenzene-d5	0.435	0.426	2.1	68	-0.01
9	Naphthalene	1.177	1.188	-0.9	65	-0.01
10	Hexachlorobutadiene	0.277	0.287	-3.6	65	-0.01
11 SURR	2-Methylnaphthalene-d10	0.595	0.600	-0.8	66	-0.02
12	2-Methylnaphthalene	0.749	0.753	-0.5	65	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	65	-0.01
14 S	2,4,6-Tribromophenol	0.182	0.192	-5.5	67	-0.01
15 S	2-Fluorobiphenyl	2.327	2.408	-3.5	65	0.00
16	Acenaphthylene	1.888	1.961	-3.9	66	-0.01
17	Acenaphthene	1.236	1.278	-3.4	65	-0.01
18	Fluorene	1.672	1.769	-5.8	65	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	65	-0.01
20	4,6-Dinitro-2-methylphenol	0.086	0.080	7.0	68	0.00
21	4-Bromophenyl-phenylether	0.251	0.268	-6.8	64	0.00
22	Hexachlorobenzene	0.303	0.324	-6.9	63	0.00
23	Atrazine	0.201	0.220	-9.5	68	0.00
24	Pentachlorophenol	0.138	0.164	-18.8	78	-0.01
25	Phenanthrene	1.200	1.313	-9.4	66	-0.01
26	Anthracene	1.083	1.155	-6.6	66	-0.01
27 SURR	Fluoranthene-d10	1.025	1.125	-9.8	66	0.00
28	Fluoranthene	1.348	1.502	-11.4	68	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	71	0.00
30	Pyrene	1.956	2.071	-5.9	69	0.00
31 S	Terphenyl-d14	0.958	0.968	-1.0	67	0.00
32	Benzo(a)anthracene	1.391	1.442	-3.7	71	0.00
33	Chrysene	1.520	1.686	-10.9	75	0.00
34	Bis(2-ethylhexyl)phthalate	0.990	1.151	-16.3	79	0.00
35 I	Perylene-d12	1.000	1.000	0.0	75	-0.01
36	Indeno(1,2,3-cd)pyrene	1.444	1.458	-1.0	71	-0.01
37	Benzo(b)fluoranthene	1.456	1.675	-15.0	81	0.00
38	Benzo(k)fluoranthene	1.527	1.649	-8.0	77	0.00
39 C	Benzo(a)pyrene	1.226	1.403	-14.4	81	0.00
40	Dibenzo(a,h)anthracene	1.124	1.116	0.7	72	-0.01
41	Benzo(g,h,i)perylene	1.286	1.332	-3.6	72	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036668.D
Acq On : 17 Mar 2025 21:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 18 00:55:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	60	0.00
2	1,4-Dioxane	0.400	0.440	-10.0	59	0.00
3	n-Nitrosodimethylamine	0.400	0.495	-23.7	71	0.00
4 S	2-Fluorophenol	0.400	0.400	0.0	57	0.00
5 S	Phenol-d6	0.400	0.401	-0.3	61	-0.01
6	bis(2-Chloroethyl)ether	0.400	0.393	1.8	59	-0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	66	-0.01
8 S	Nitrobenzene-d5	0.400	0.392	2.0	68	-0.01
9	Naphthalene	0.400	0.404	-1.0	65	-0.01
10	Hexachlorobutadiene	0.400	0.414	-3.5	65	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.403	-0.8	66	-0.02
12	2-Methylnaphthalene	0.400	0.402	-0.5	65	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	65	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.423	-5.7	67	-0.01
15 S	2-Fluorobiphenyl	0.400	0.414	-3.5	65	0.00
16	Acenaphthylene	0.400	0.416	-4.0	66	-0.01
17	Acenaphthene	0.400	0.414	-3.5	65	-0.01
18	Fluorene	0.400	0.423	-5.7	65	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	65	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.458	-14.5	68	0.00
21	4-Bromophenyl-phenylether	0.400	0.428	-7.0	64	0.00
22	Hexachlorobenzene	0.400	0.428	-7.0	63	0.00
23	Atrazine	0.400	0.439	-9.7	68	0.00
24	Pentachlorophenol	0.400	0.475	-18.7	78	-0.01
25	Phenanthrene	0.400	0.438	-9.5	66	-0.01
26	Anthracene	0.400	0.427	-6.7	66	-0.01
27 SURR	Fluoranthene-d10	0.400	0.439	-9.7	66	0.00
28	Fluoranthene	0.400	0.446	-11.5	68	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	71	0.00
30	Pyrene	0.400	0.424	-6.0	69	0.00
31 S	Terphenyl-d14	0.400	0.404	-1.0	67	0.00
32	Benzo(a)anthracene	0.400	0.415	-3.7	71	0.00
33	Chrysene	0.400	0.444	-11.0	75	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.465	-16.3	79	0.00
35 I	Perylene-d12	0.400	0.400	0.0	75	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.404	-1.0	71	-0.01
37	Benzo(b)fluoranthene	0.400	0.460	-15.0	81	0.00
38	Benzo(k)fluoranthene	0.400	0.432	-8.0	77	0.00
39 C	Benzo(a)pyrene	0.400	0.458	-14.5	81	0.00
40	Dibenzo(a,h)anthracene	0.400	0.397	0.8	72	-0.01
41	Benzo(g,h,i)perylene	0.400	0.414	-3.5	72	-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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG No.: Q1582

Instrument ID: BNA_N Calibration Date/Time: 03/18/2025 04:52

Lab File ID: BN036681.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.521		-12.4	50.0
Fluoranthene-d10	1.025	0.920		-10.2	50.0
2-Fluorophenol	0.932	0.847		-9.1	50.0
Phenol-d6	1.152	0.989		-14.1	50.0
Nitrobenzene-d5	0.435	0.371		-14.7	50.0
2-Fluorobiphenyl	2.327	2.156		-7.3	50.0
2,4,6-Tribromophenol	0.182	0.158		-13.2	50.0
Terphenyl-d14	0.958	0.864		-9.8	50.0
1,4-Dioxane	0.444	0.465		4.7	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
 Data File : BN036681.D
 Acq On : 18 Mar 2025 04:52
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Mar 18 06:01:22 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

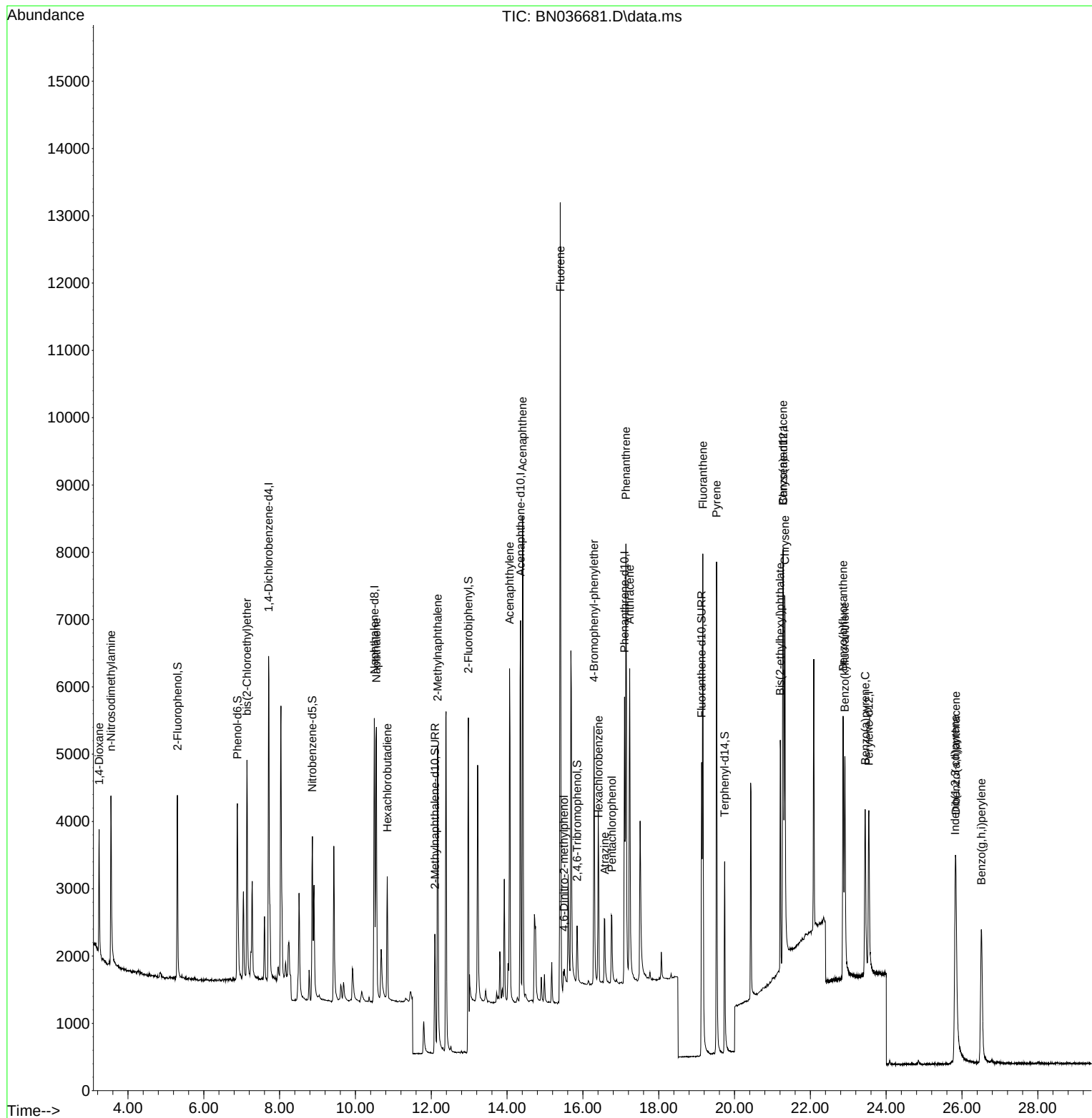
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	2370	0.400	ng	-0.01
7) Naphthalene-d8	10.498	136	5736	0.400	ng	#-0.01
13) Acenaphthene-d10	14.356	164	3310	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	6088	0.400	ng	-0.01
29) Chrysene-d12	21.286	240	4030	0.400	ng	0.00
35) Perylene-d12	23.543	264	3645	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	2007	0.363	ng	0.00
5) Phenol-d6	6.887	99	2343	0.343	ng	-0.01
8) Nitrobenzene-d5	8.865	82	2129	0.341	ng	-0.01
11) 2-Methylnaphthalene-d10	12.096	152	2986	0.350	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	524	0.349	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	7136	0.371	ng	0.00
27) Fluoranthene-d10	19.132	212	5604	0.359	ng	0.00
31) Terphenyl-d14	19.740	244	3480	0.360	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	1101	0.419	ng	Qvalue 96
3) n-Nitrosodimethylamine	3.550	42	2150	0.404	ng	93
6) bis(2-Chloroethyl)ether	7.139	93	2370	0.336	ng	99
9) Naphthalene	10.552	128	5983	0.355	ng	99
10) Hexachlorobutadiene	10.840	225	1441	0.363	ng	# 98
12) 2-Methylnaphthalene	12.167	142	3784	0.352	ng	98
16) Acenaphthylene	14.067	152	5557	0.356	ng	100
17) Acenaphthene	14.409	154	3696	0.361	ng	99
18) Fluorene	15.403	166	4936	0.357	ng	100
20) 4,6-Dinitro-2-methylph...	15.499	198	413	0.411	ng	# 76
21) 4-Bromophenyl-phenylether	16.292	248	1467	0.385	ng	# 87
22) Hexachlorobenzene	16.416	284	1807	0.392	ng	96
23) Atrazine	16.578	200	1154	0.377	ng	91
24) Pentachlorophenol	16.764	266	705	0.336	ng	100
25) Phenanthrene	17.136	178	6954	0.381	ng	100
26) Anthracene	17.235	178	6199	0.376	ng	99
28) Fluoranthene	19.164	202	7526	0.367	ng	98
30) Pyrene	19.527	202	7489	0.380	ng	100
32) Benzo(a)anthracene	21.277	228	4888	0.349	ng	98
33) Chrysene	21.331	228	5847	0.382	ng	99
34) Bis(2-ethylhexyl)phtha...	21.205	149	3635	0.364	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.820	276	5036	0.383	ng	96
37) Benzo(b)fluoranthene	22.864	252	4884	0.368	ng	98
38) Benzo(k)fluoranthene	22.908	252	5003	0.359	ng	94
39) Benzo(a)pyrene	23.446	252	4250	0.380	ng	94
40) Dibenzo(a,h)anthracene	25.838	278	3996	0.390	ng	94
41) Benzo(g,h,i)perylene	26.510	276	4592	0.392	ng	95

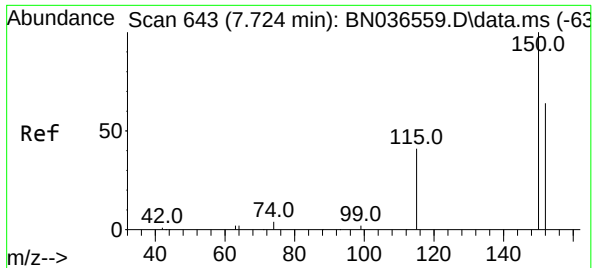
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036681.D
Acq On : 18 Mar 2025 04:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

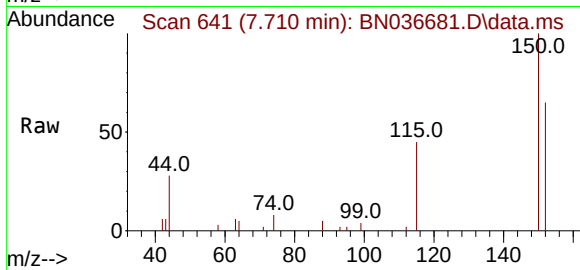
Quant Time: Mar 18 06:01:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



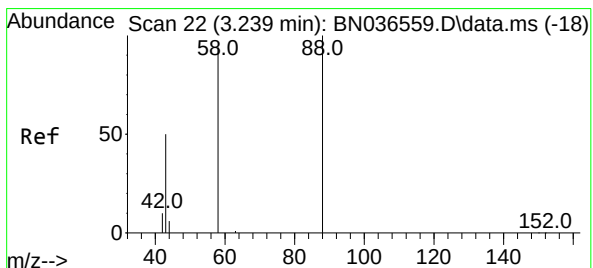
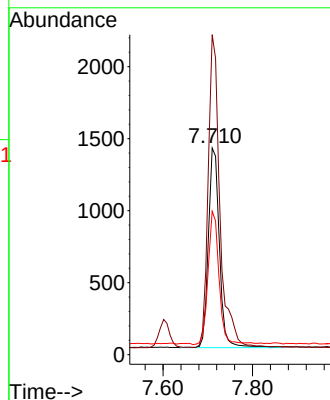
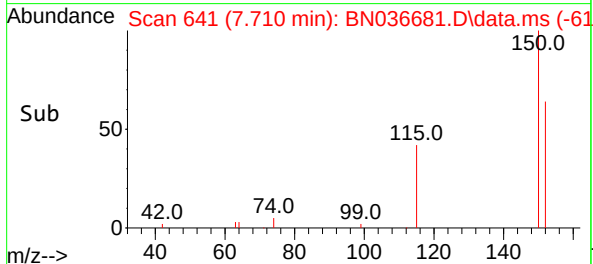


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 64
Delta R.T. -0.014 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

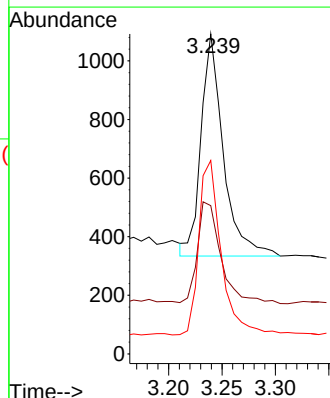
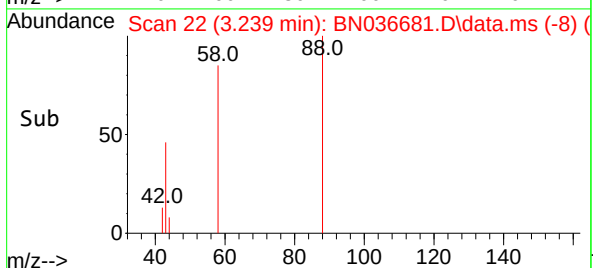
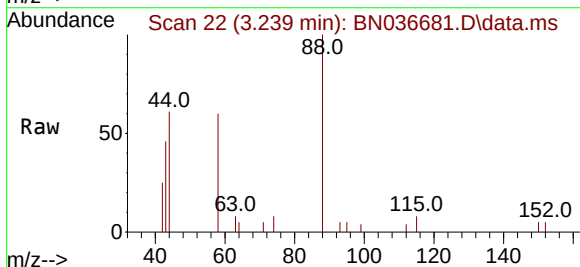


Tgt Ion:152 Resp: 2370
Ion Ratio Lower Upper
152 100
150 154.8 123.7 185.5
115 69.4 54.3 81.5

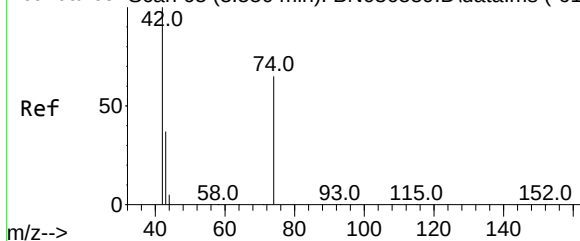


#2
1,4-Dioxane
Concen: 0.419 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

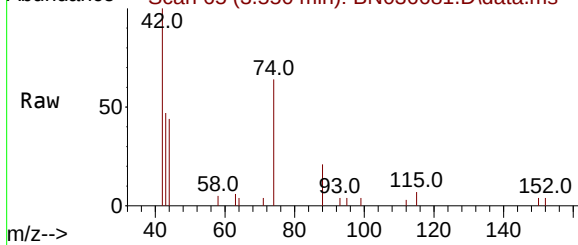
Tgt Ion: 88 Resp: 1101
Ion Ratio Lower Upper
88 100
43 48.5 37.8 56.8
58 79.0 67.4 101.2



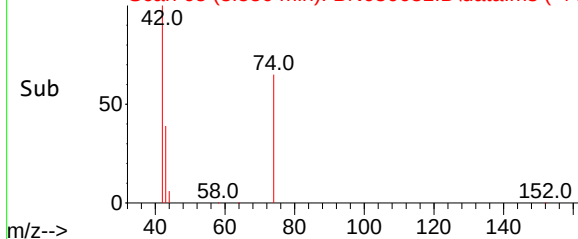
Abundance Scan 65 (3.550 min): BN036559.D\data.ms (-61)



Abundance Scan 65 (3.550 min): BN036681.D\data.ms



Abundance Scan 65 (3.550 min): BN036681.D\data.ms (-44)



#3

n-Nitrosodimethylamine

Concen: 0.404 ng

RT: 3.550 min Scan# 61

Delta R.T. 0.000 min

Lab File: BN036681.D

Acq: 18 Mar 2025 04:52

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion: 42 Resp: 2150

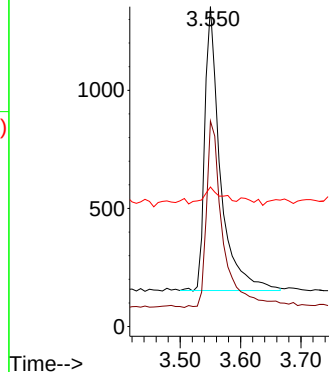
Ion Ratio Lower Upper

42 100

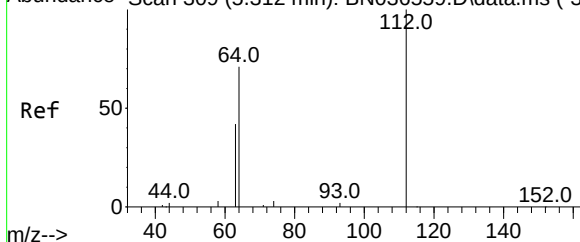
74 69.4 60.6 90.8

44 8.2 6.3 9.5

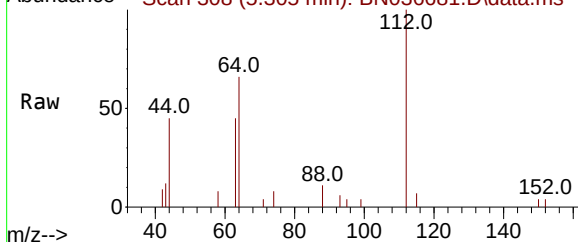
Abundance



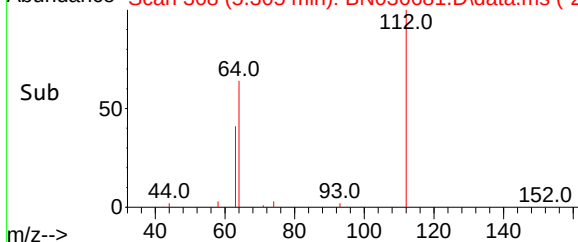
Abundance Scan 309 (5.312 min): BN036559.D\data.ms (-30)



Abundance Scan 308 (5.305 min): BN036681.D\data.ms



Abundance Scan 308 (5.305 min): BN036681.D\data.ms (-28)



#4

2-Fluorophenol

Concen: 0.363 ng

RT: 5.305 min Scan# 308

Delta R.T. -0.007 min

Lab File: BN036681.D

Acq: 18 Mar 2025 04:52

Tgt Ion: 112 Resp: 2007

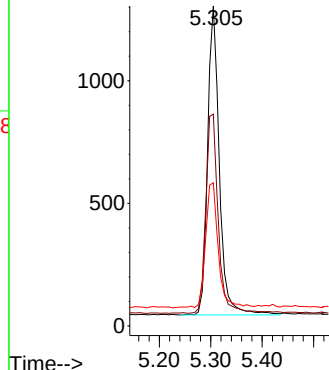
Ion Ratio Lower Upper

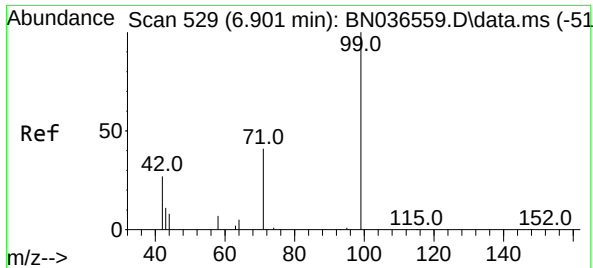
112 100

64 68.8 53.1 79.7

63 43.7 31.8 47.8

Abundance

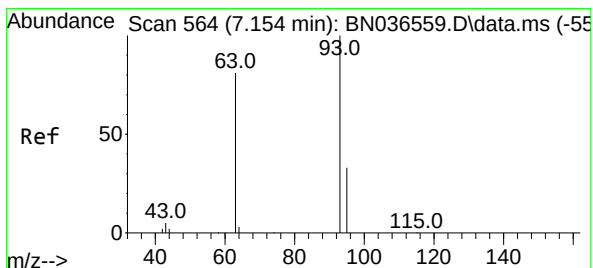
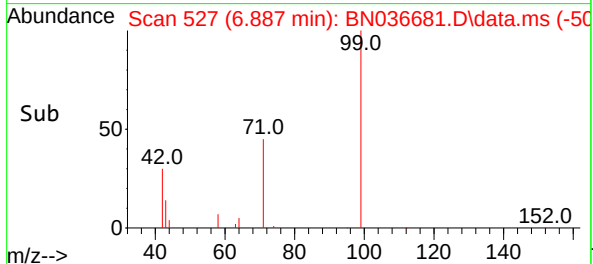
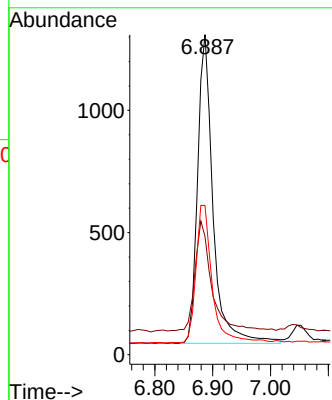
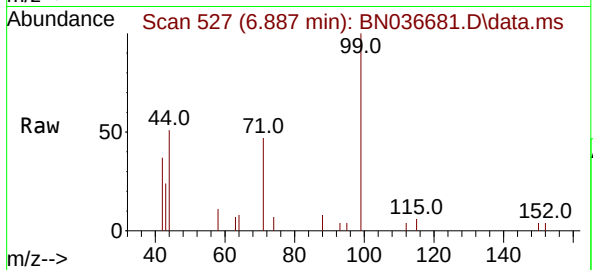




#5
Phenol-d6
Concen: 0.343 ng
RT: 6.887 min Scan# 51
Delta R.T. -0.014 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

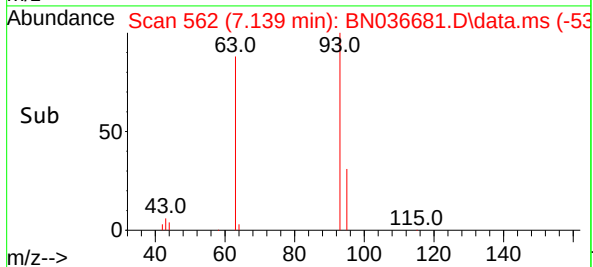
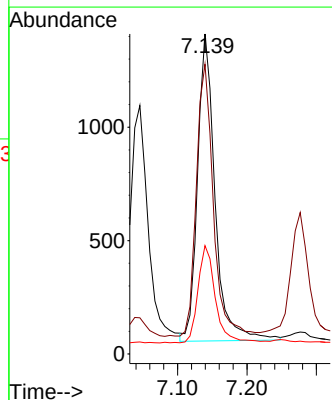
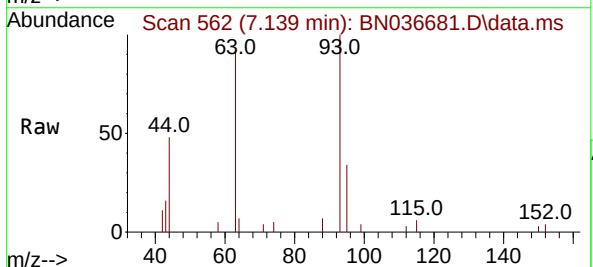
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

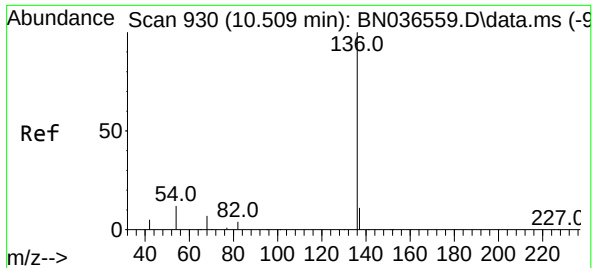
Tgt Ion: 99 Resp: 2343
Ion Ratio Lower Upper
99 100
42 38.8 26.5 39.7
71 46.9 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.336 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.014 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion: 93 Resp: 2370
Ion Ratio Lower Upper
93 100
63 85.8 67.7 101.5
95 31.1 25.6 38.4

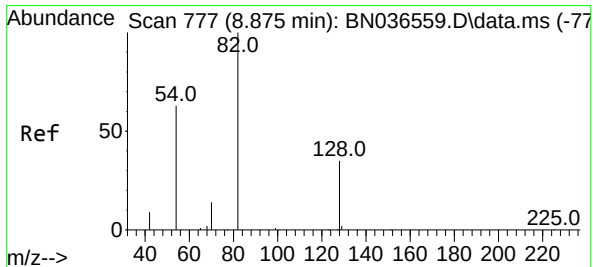
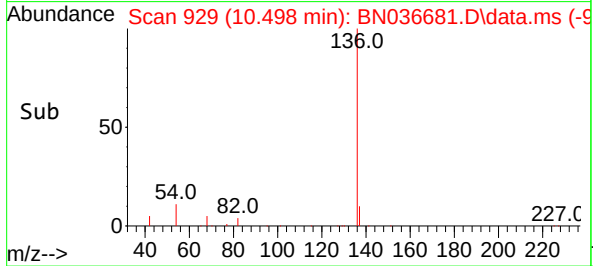
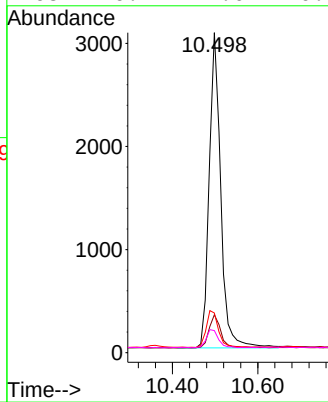
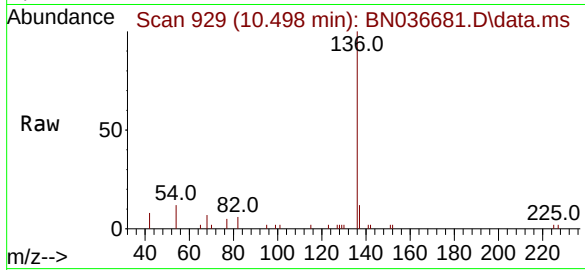




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

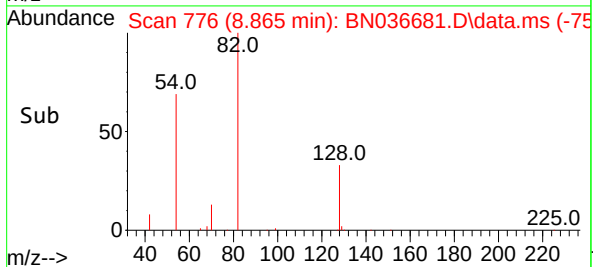
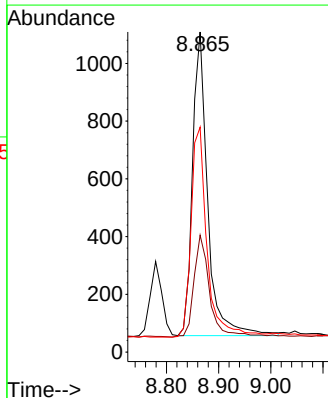
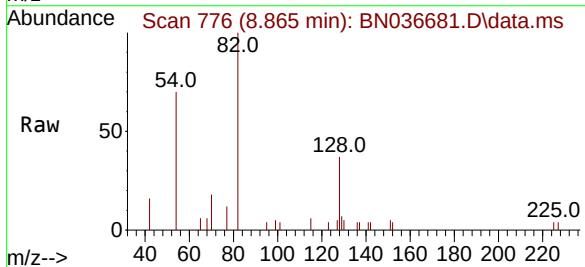
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

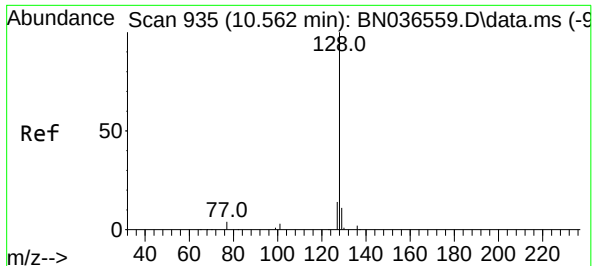
Tgt Ion:	136	Resp:	5736
Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.3	15.5
54	12.4	11.5	17.3
68	6.9	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.341 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion:	82	Resp:	2129
Ion	Ratio	Lower	Upper
82	100		
128	36.5	30.6	45.8
54	70.2	52.2	78.4

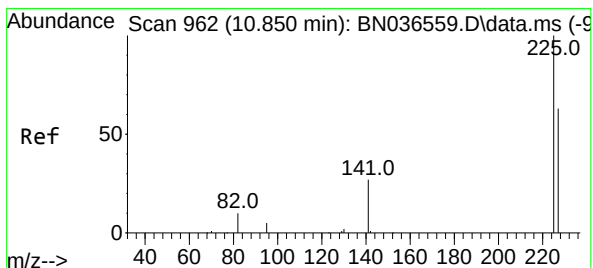
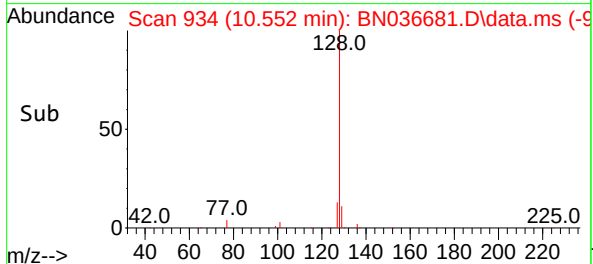
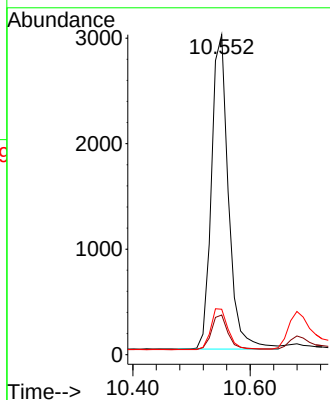
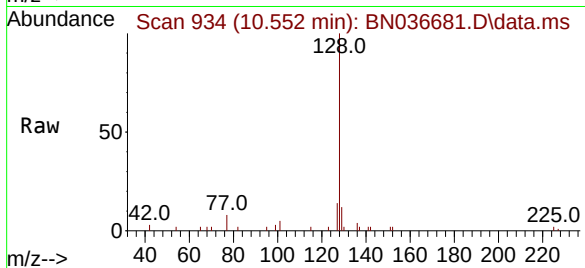




#9
Naphthalene
Concen: 0.355 ng
RT: 10.552 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

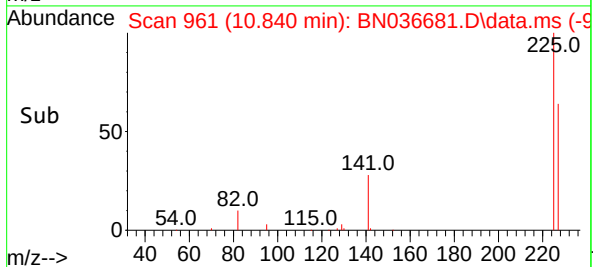
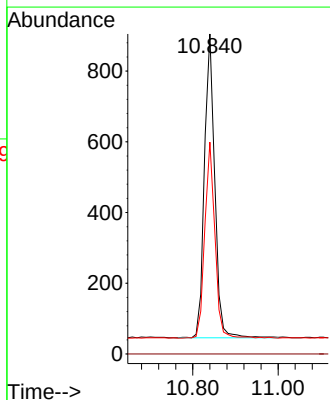
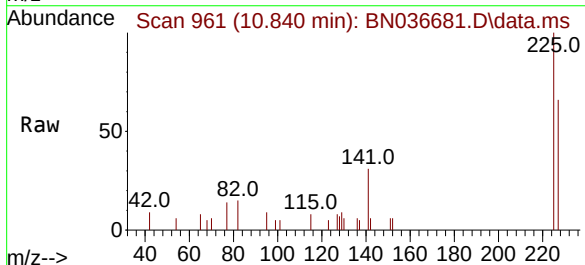
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

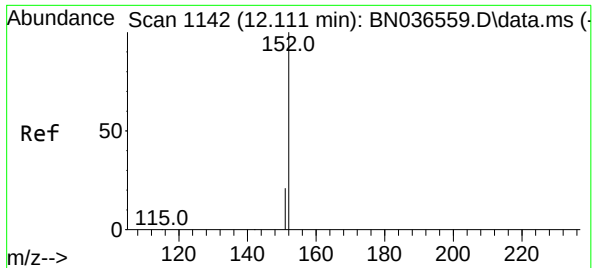
Tgt Ion	128	Resp:	5983
Ion Ratio	Lower	Upper	
128	100		
129	12.4	9.8	14.6
127	14.2	11.8	17.8



#10
Hexachlorobutadiene
Concen: 0.363 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion	225	Resp:	1441
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	63.5	51.8	77.8

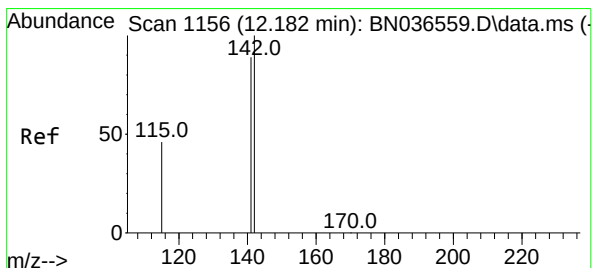
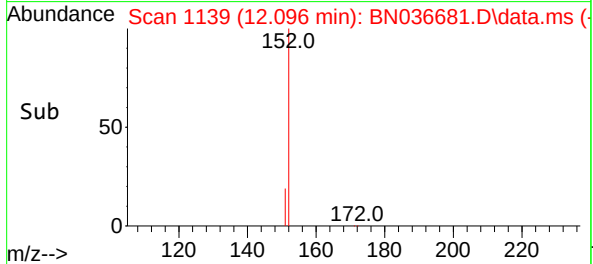
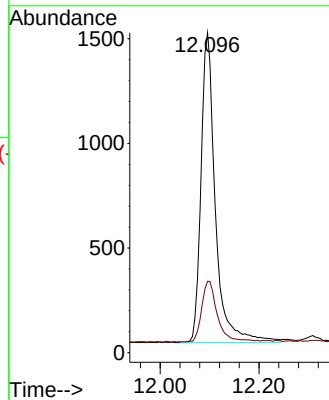
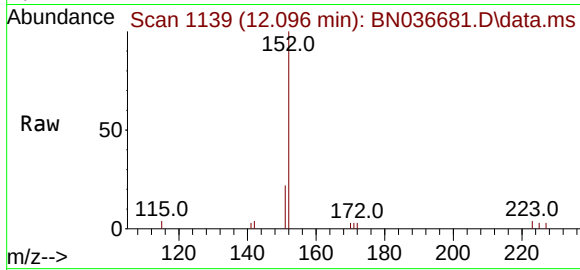




#11
2-Methylnaphthalene-d10
Concen: 0.350 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

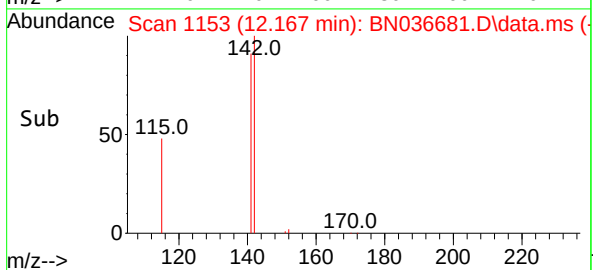
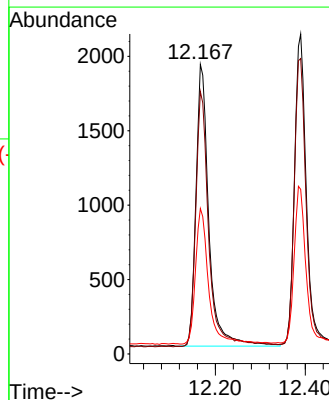
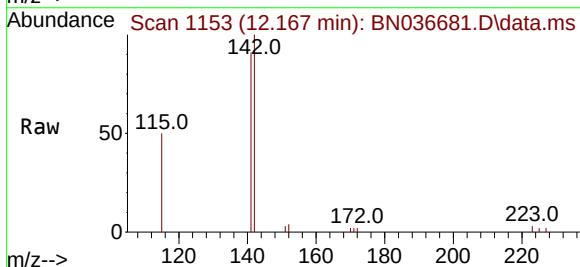
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

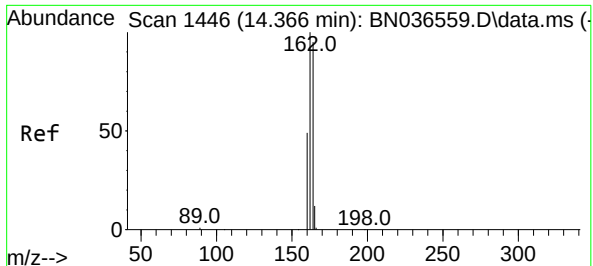
Tgt Ion:152 Resp: 2986
Ion Ratio Lower Upper
152 100
151 21.6 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.352 ng
RT: 12.167 min Scan# 1153
Delta R.T. -0.015 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion:142 Resp: 3784
Ion Ratio Lower Upper
142 100
141 90.6 71.7 107.5
115 50.2 38.3 57.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.356 min Scan# 1445

Delta R.T. -0.011 min

Lab File: BN036681.D

Acq: 18 Mar 2025 04:52

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

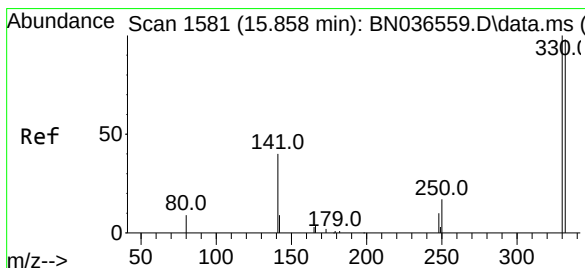
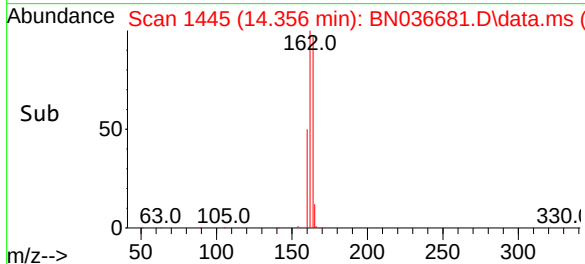
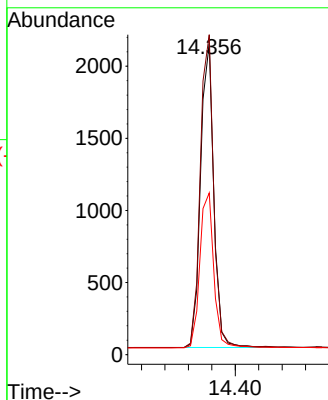
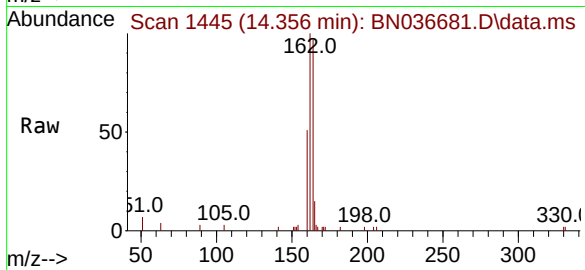
Tgt Ion:164 Resp: 3310

Ion Ratio Lower Upper

164 100

162 102.8 84.2 126.2

160 52.0 42.2 63.2



#14

2,4,6-Tribromophenol

Concen: 0.349 ng

RT: 15.845 min Scan# 1580

Delta R.T. -0.012 min

Lab File: BN036681.D

Acq: 18 Mar 2025 04:52

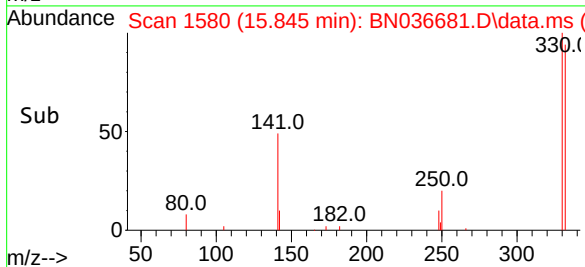
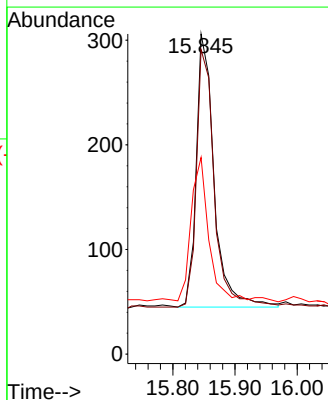
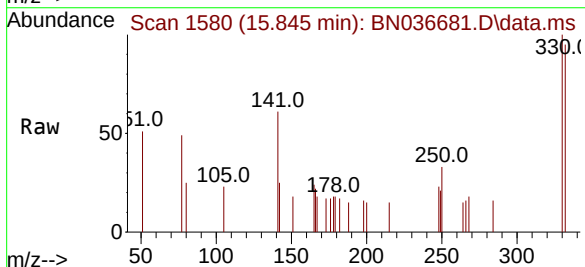
Tgt Ion:330 Resp: 524

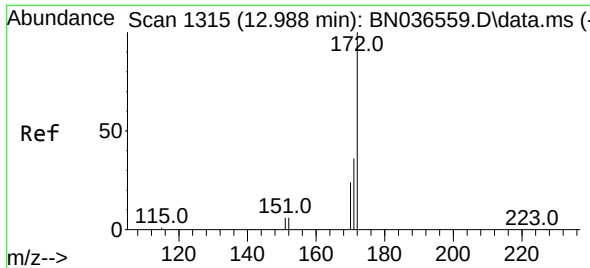
Ion Ratio Lower Upper

330 100

332 95.0 75.2 112.8

141 54.6 43.4 65.2

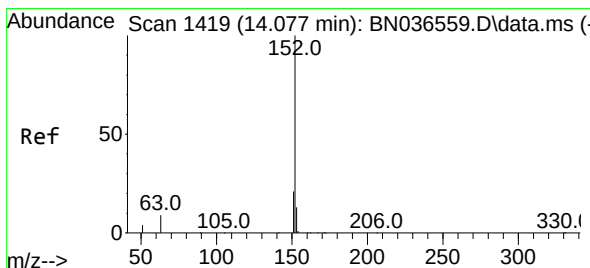
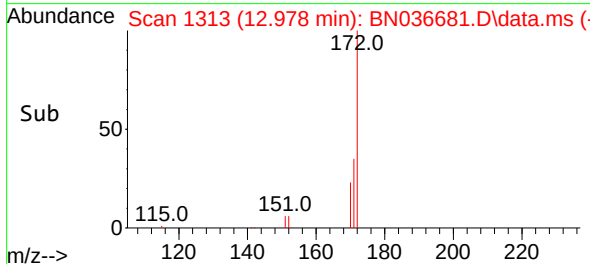
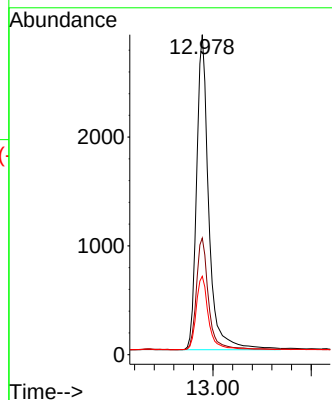
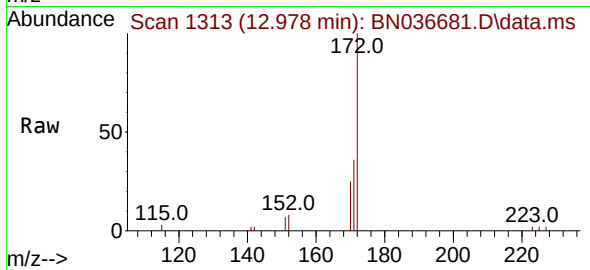




#15
2-Fluorobiphenyl
Concen: 0.371 ng
RT: 12.978 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

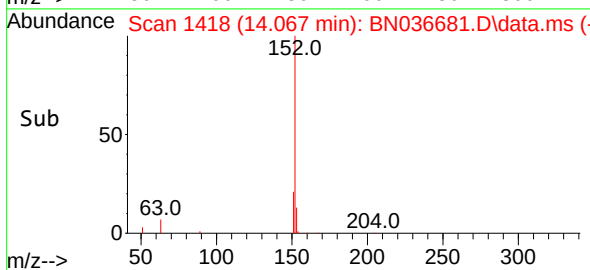
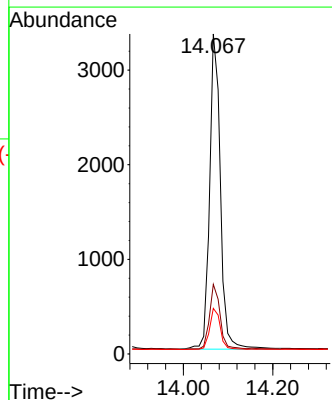
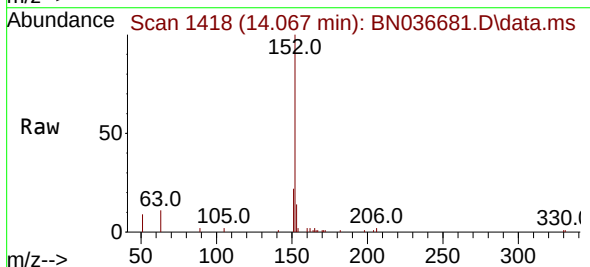
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

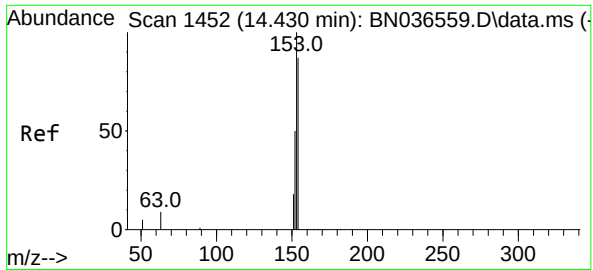
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.5	44.3
170	24.5	20.2	30.4



#16
Acenaphthylene
Concen: 0.356 ng
RT: 14.067 min Scan# 1418
Delta R.T. -0.011 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.4
153	13.3	10.6	15.8

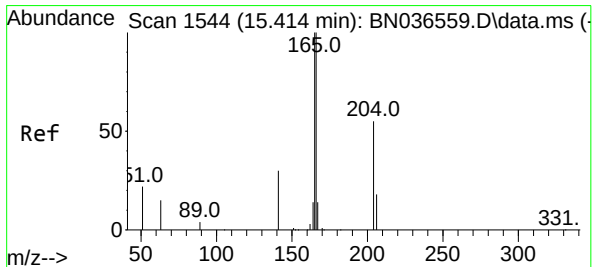
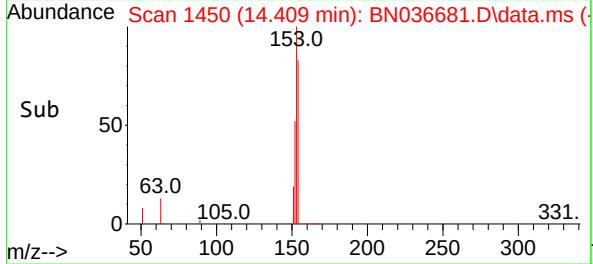
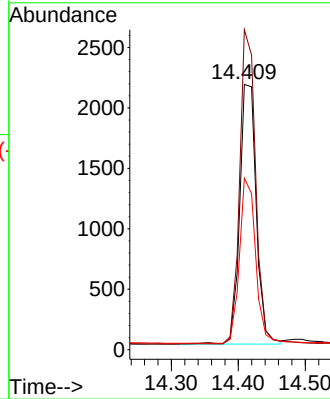
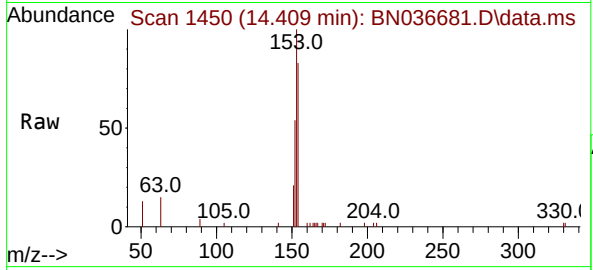




#17
Acenaphthene
Concen: 0.361 ng
RT: 14.409 min Scan# 1443
Delta R.T. -0.021 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

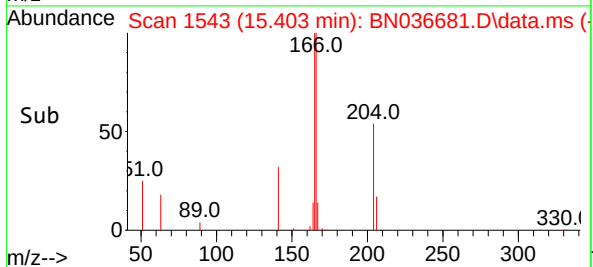
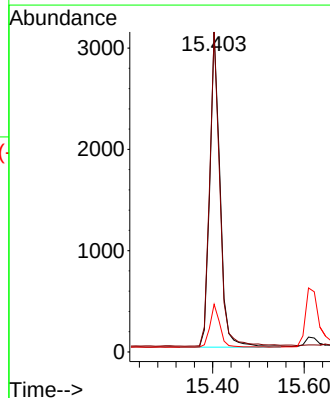
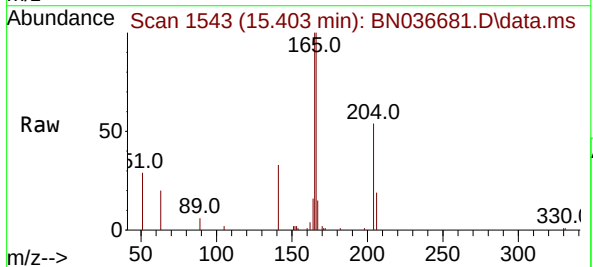
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

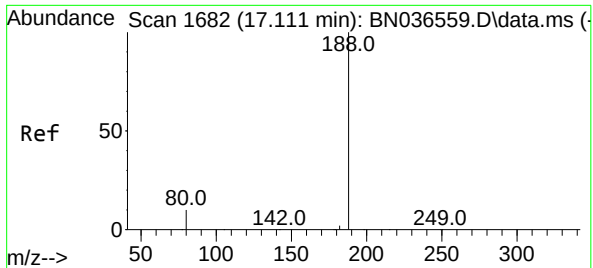
Tgt Ion:154 Resp: 3696
Ion Ratio Lower Upper
154 100
153 117.2 94.1 141.1
152 63.1 49.8 74.6



#18
Fluorene
Concen: 0.357 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.011 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion:166 Resp: 4936
Ion Ratio Lower Upper
166 100
165 99.6 79.8 119.8
167 13.1 10.6 15.8

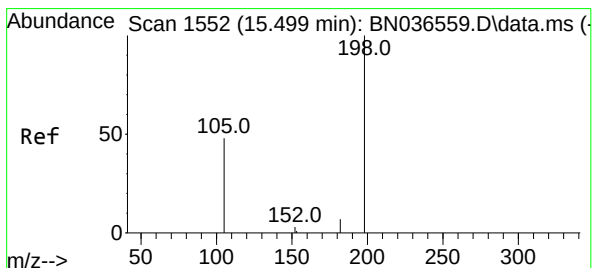
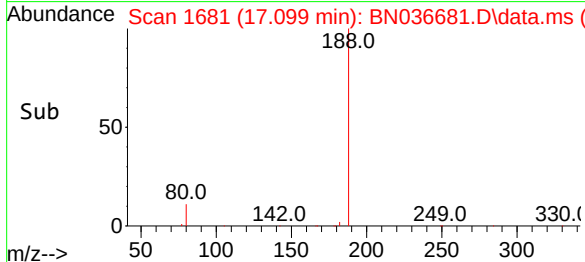
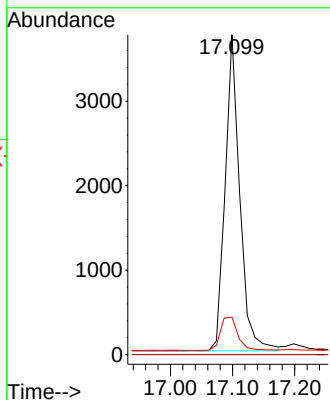
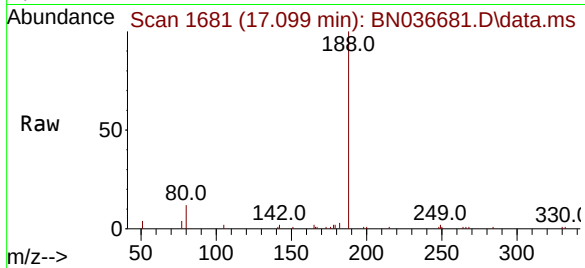




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1682
Delta R.T. -0.012 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

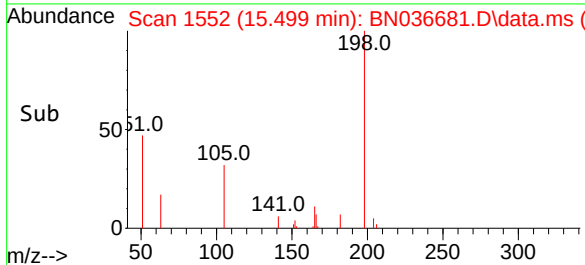
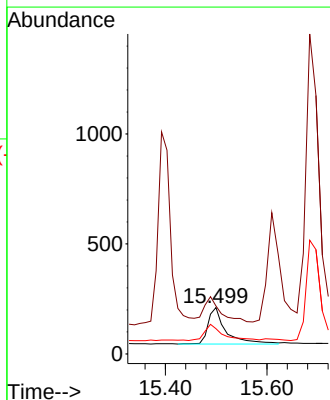
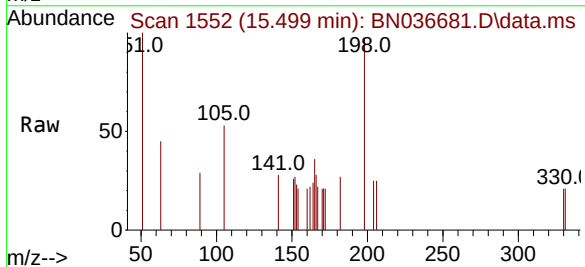
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

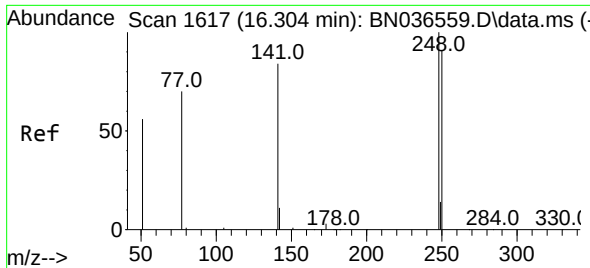
Tgt Ion:188 Resp: 6088
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.8 8.8 13.2



#20
4,6-Dinitro-2-methylphenol
Concen: 0.411 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion:198 Resp: 413
Ion Ratio Lower Upper
198 100
51 103.3 107.9 161.9#
105 54.5 56.2 84.2#

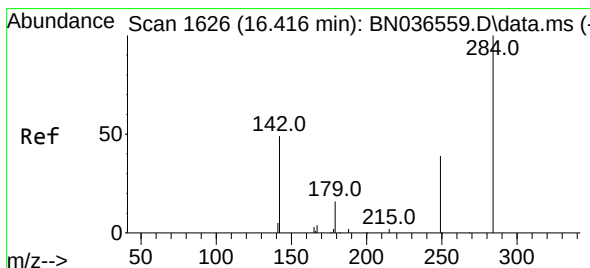
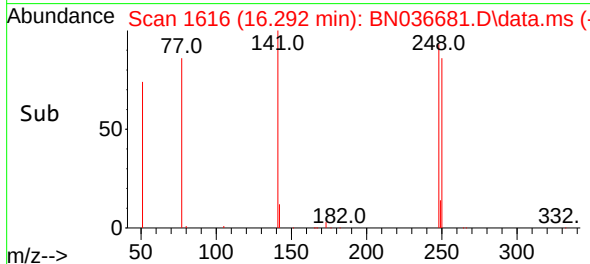
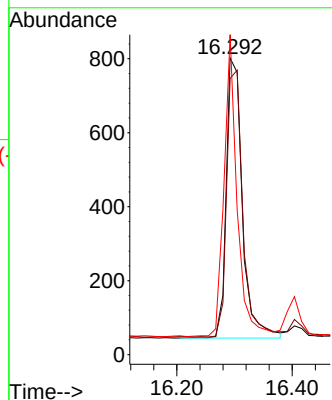
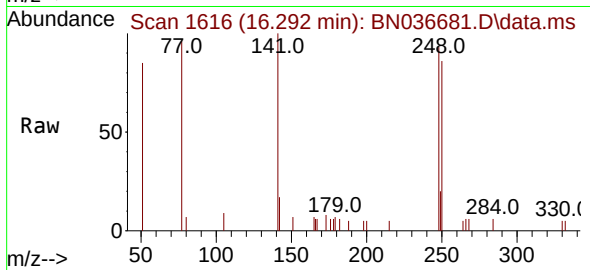




#21
4-Bromophenyl-phenylether
Concen: 0.385 ng
RT: 16.292 min Scan# 1616
Delta R.T. -0.012 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

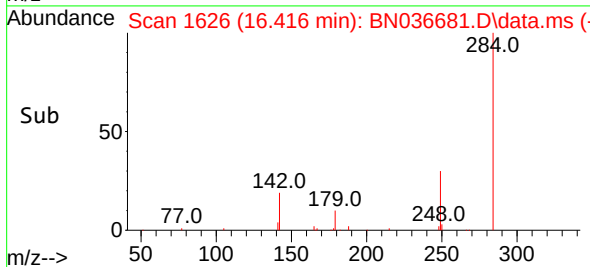
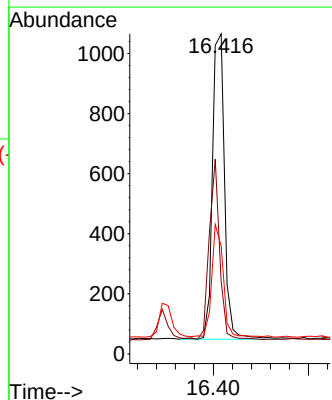
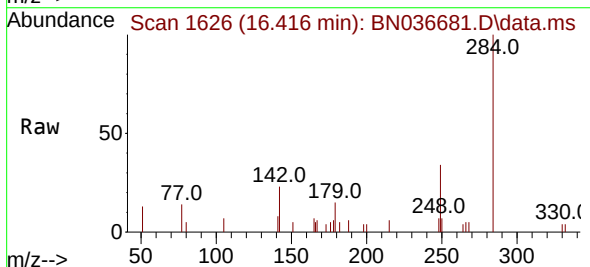
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

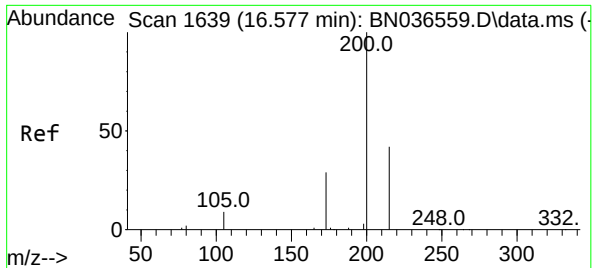
Tgt Ion:248 Resp: 1467
Ion Ratio Lower Upper
248 100
250 93.1 73.0 109.6
141 107.9 68.6 103.0#



#22
Hexachlorobenzene
Concen: 0.392 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion:284 Resp: 1807
Ion Ratio Lower Upper
284 100
142 50.7 37.0 55.4
249 34.9 28.1 42.1

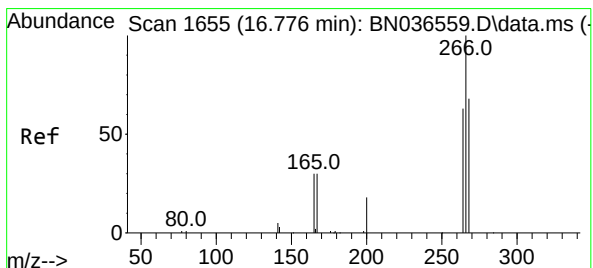
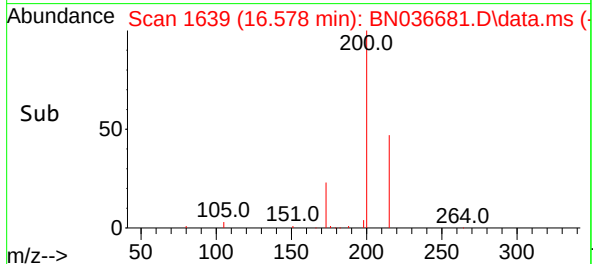
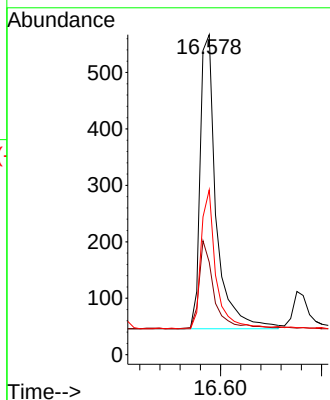
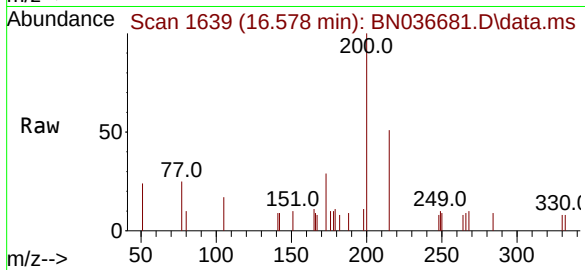




#23
Atrazine
Concen: 0.377 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

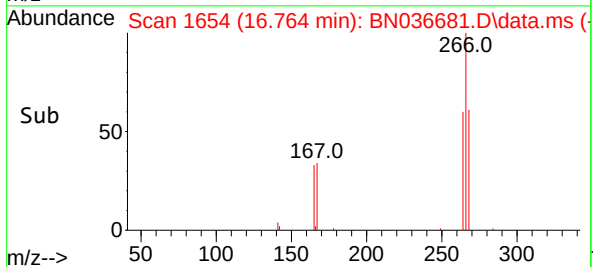
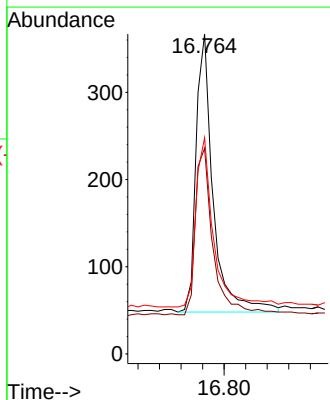
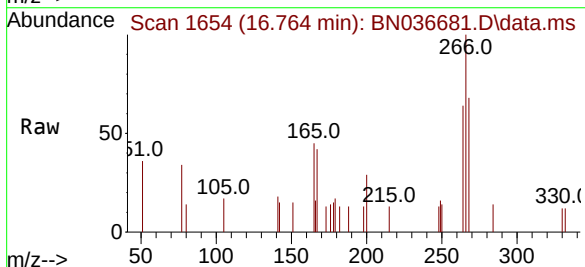
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

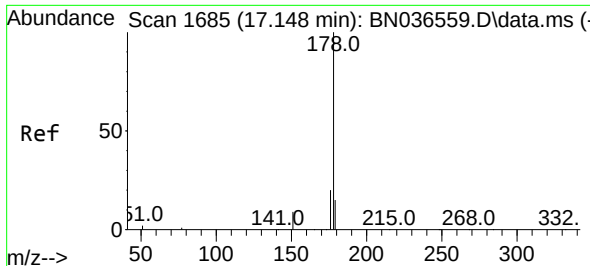
Tgt Ion	Ratio	Lower	Upper
200	100		
173	28.9	27.3	40.9
215	51.5	36.8	55.2



#24
Pentachlorophenol
Concen: 0.336 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.0	49.6	74.4
268	63.4	50.9	76.3

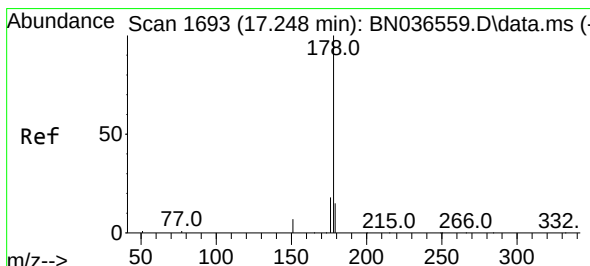
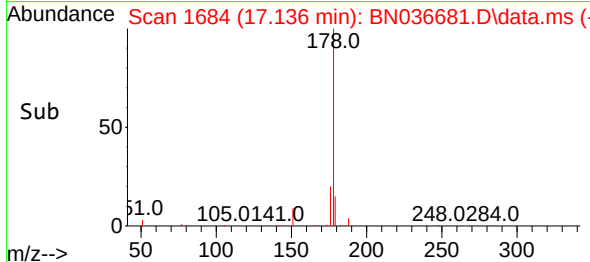
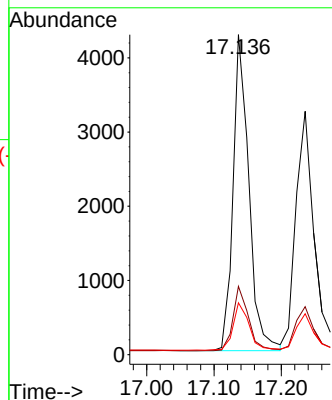
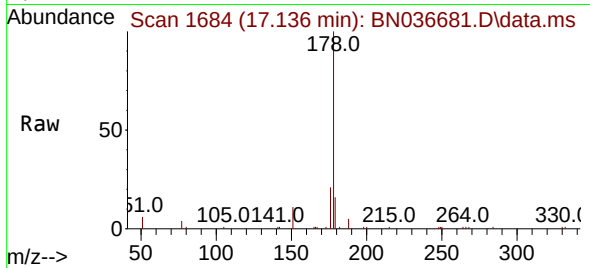




#25
Phenanthrene
Concen: 0.381 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.012 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

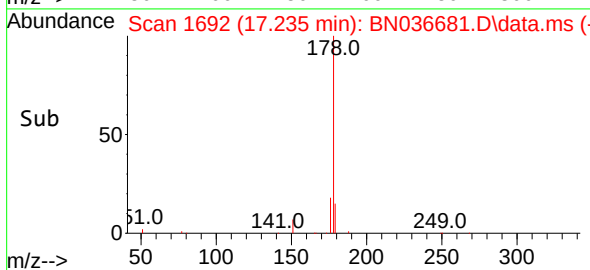
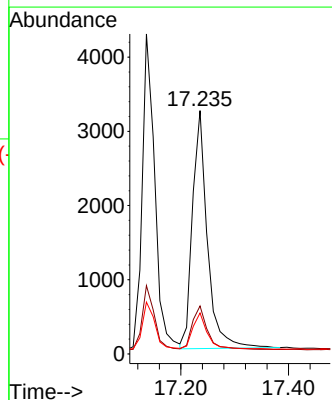
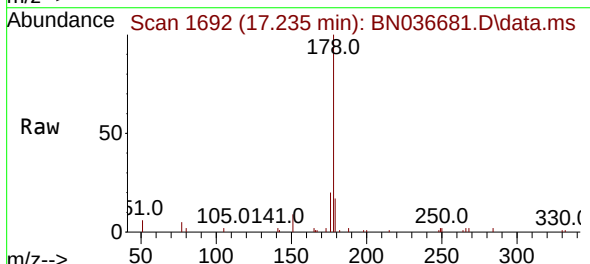
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

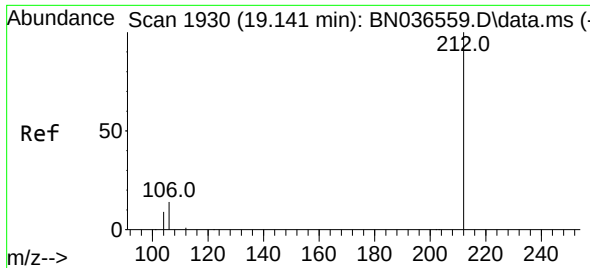
Tgt Ion:178 Resp: 6954
Ion Ratio Lower Upper
178 100
176 20.0 15.9 23.9
179 15.3 12.2 18.4



#26
Anthracene
Concen: 0.376 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion:178 Resp: 6199
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 15.3 12.6 18.8

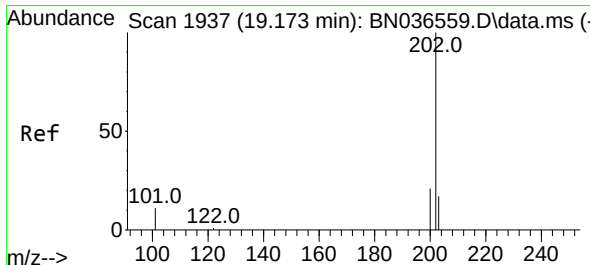
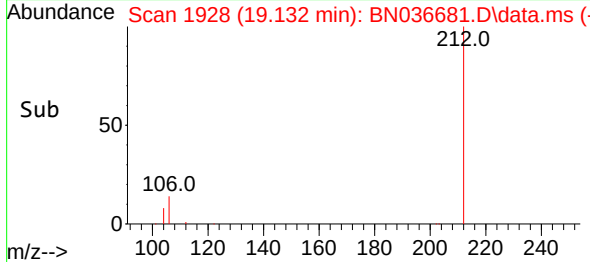
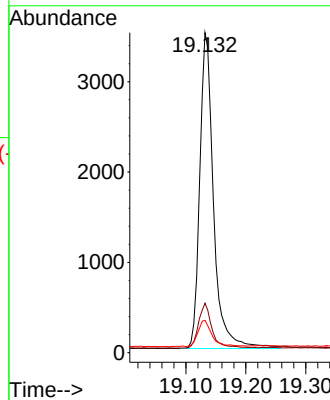
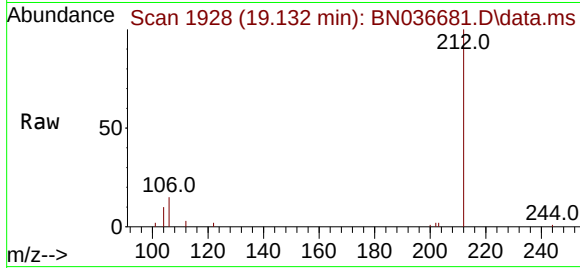




#27
Fluoranthene-d10
Concen: 0.359 ng
RT: 19.132 min Scan# 1928
Delta R.T. -0.009 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

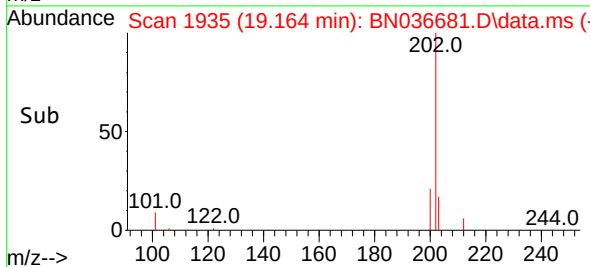
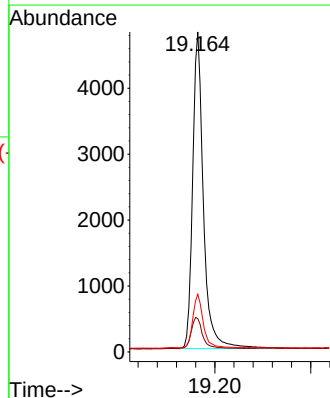
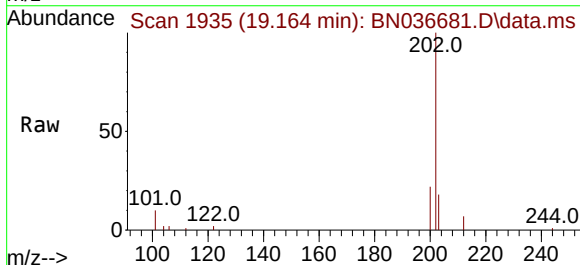
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

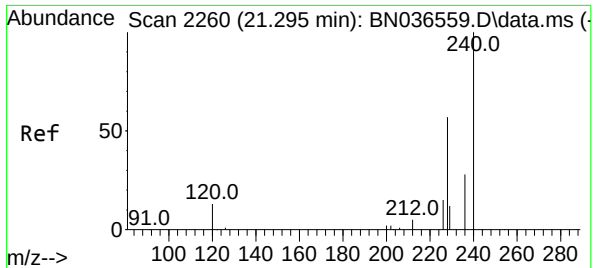
Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.7	11.8	17.6
104	8.8	7.3	10.9



#28
Fluoranthene
Concen: 0.367 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

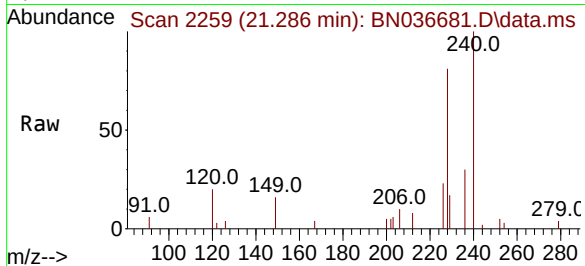
Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.4	9.4	14.0
203	16.5	13.5	20.3



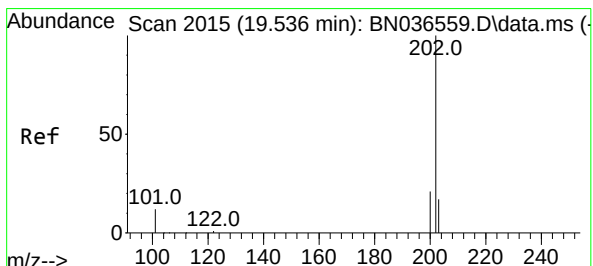
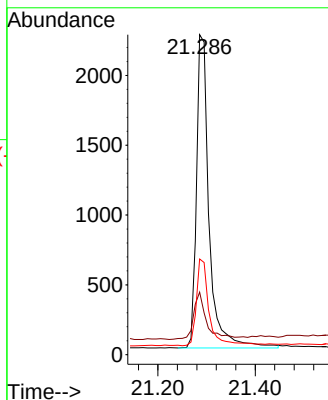
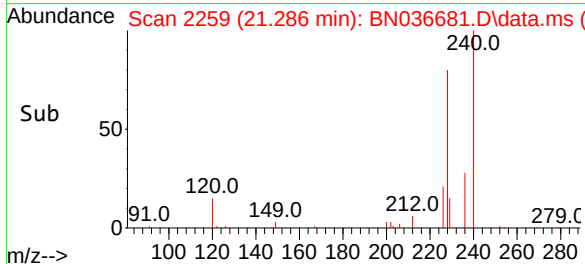


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.286 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

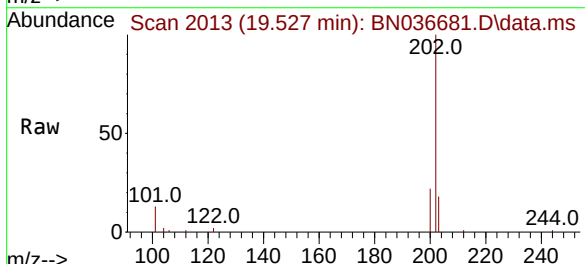
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



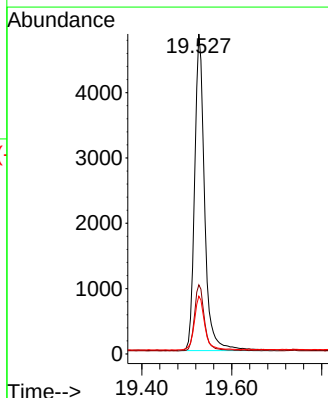
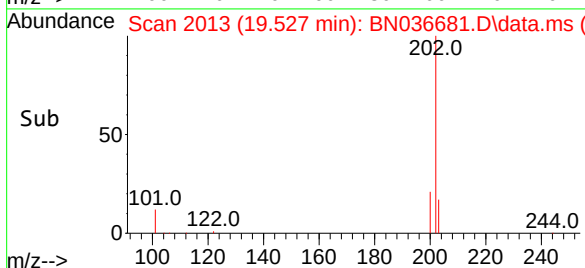
Tgt Ion:240 Resp: 4030
Ion Ratio Lower Upper
240 100
120 19.5 14.6 22.0
236 29.9 24.1 36.1

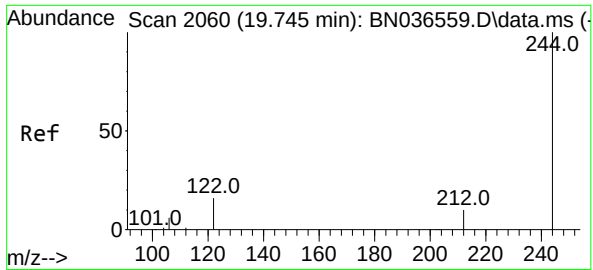


#30
Pyrene
Concen: 0.380 ng
RT: 19.527 min Scan# 2013
Delta R.T. -0.009 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52



Tgt Ion:202 Resp: 7489
Ion Ratio Lower Upper
202 100
200 21.3 17.1 25.7
203 17.6 14.1 21.1

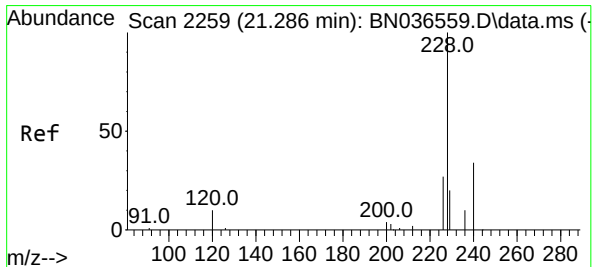
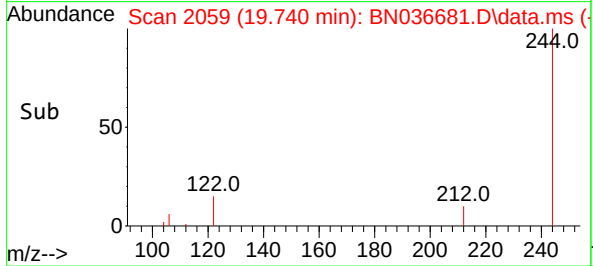
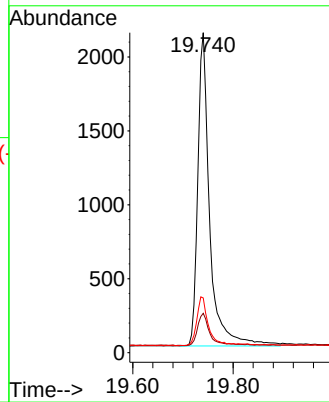
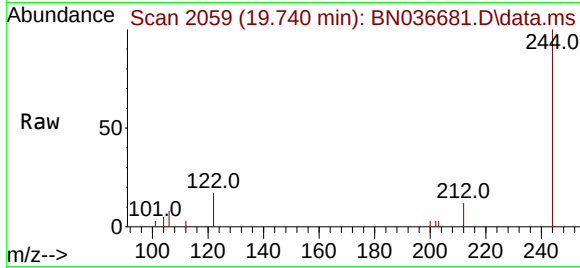




#31
Terphenyl-d14
Concen: 0.360 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

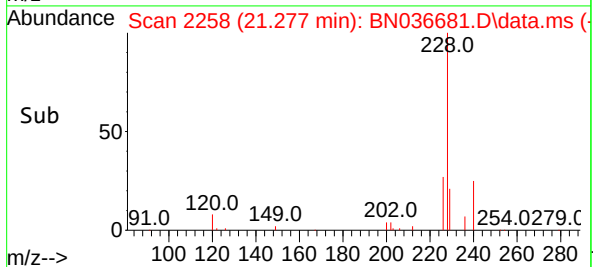
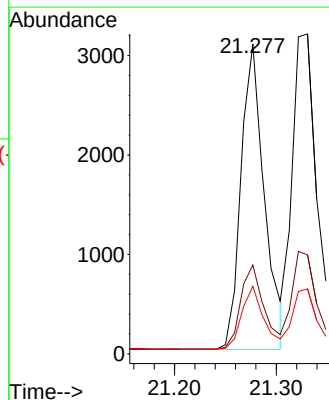
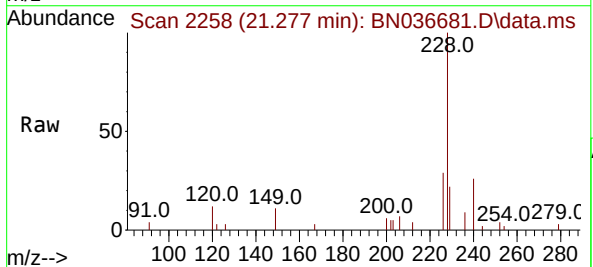
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

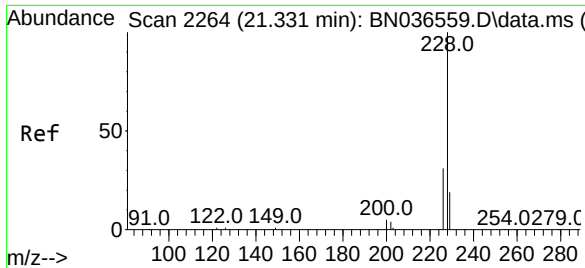
Tgt Ion:244 Resp: 3480
Ion Ratio Lower Upper
244 100
212 12.3 9.6 14.4
122 17.1 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.349 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion:228 Resp: 4888
Ion Ratio Lower Upper
228 100
226 28.7 22.5 33.7
229 21.8 16.6 25.0





#33

Chrysene

Concen: 0.382 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036681.D

Acq: 18 Mar 2025 04:52

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

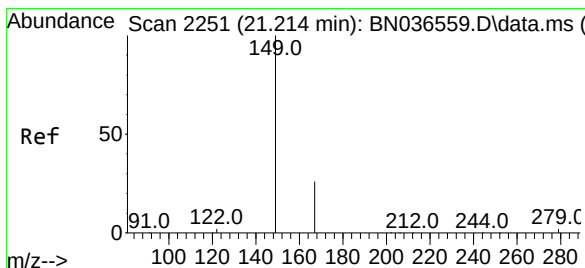
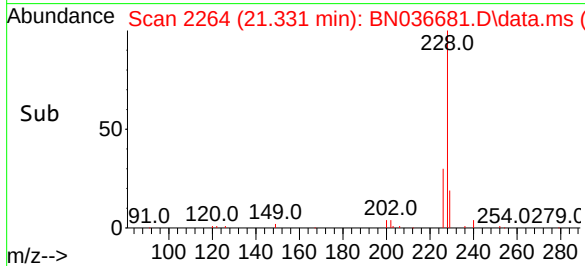
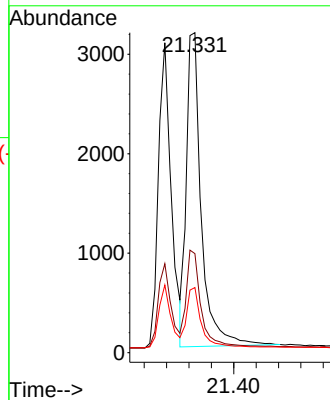
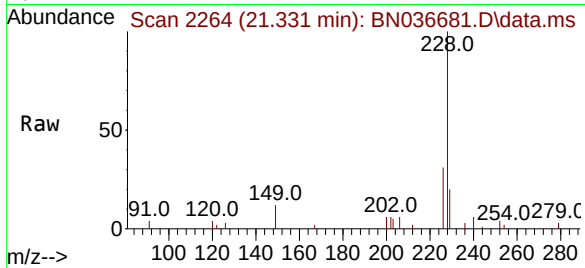
Tgt Ion:228 Resp: 5847

Ion Ratio Lower Upper

228 100

226 31.0 25.3 37.9

229 20.3 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.364 ng

RT: 21.205 min Scan# 2250

Delta R.T. -0.009 min

Lab File: BN036681.D

Acq: 18 Mar 2025 04:52

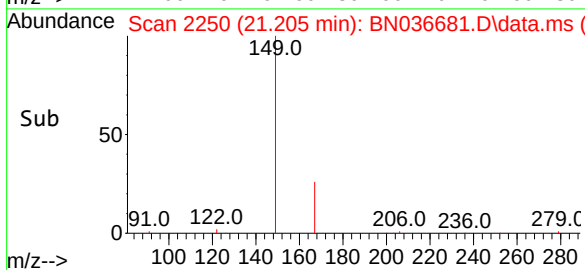
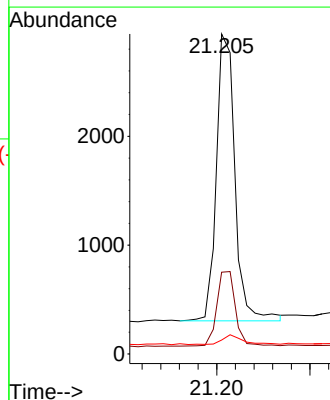
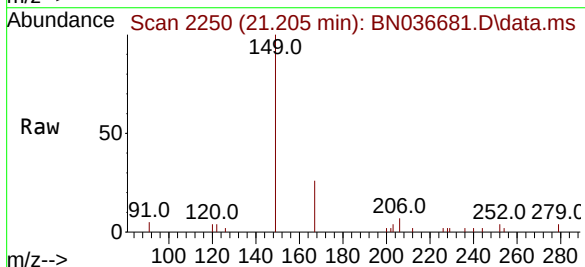
Tgt Ion:149 Resp: 3635

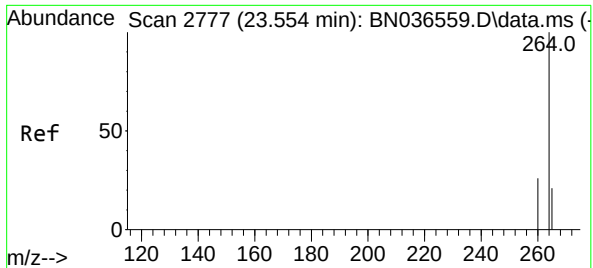
Ion Ratio Lower Upper

149 100

167 25.9 20.7 31.1

279 3.4 3.6 5.4#

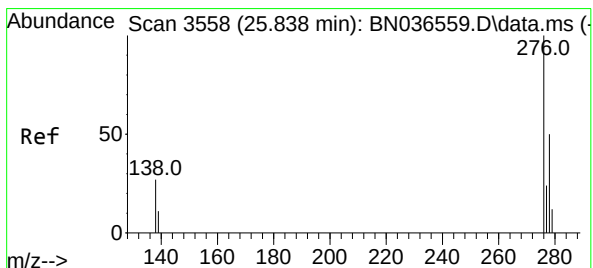
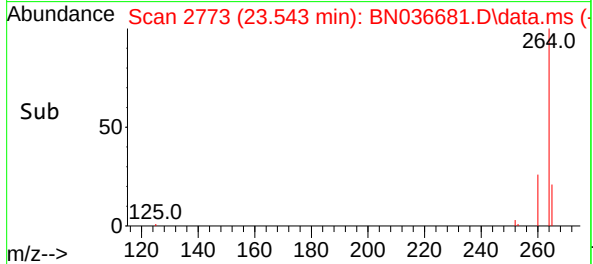
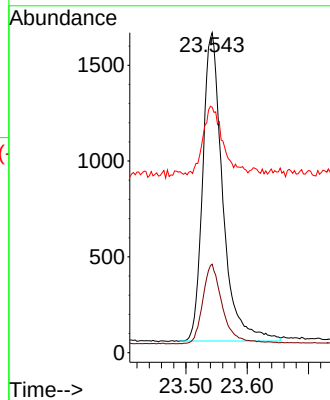
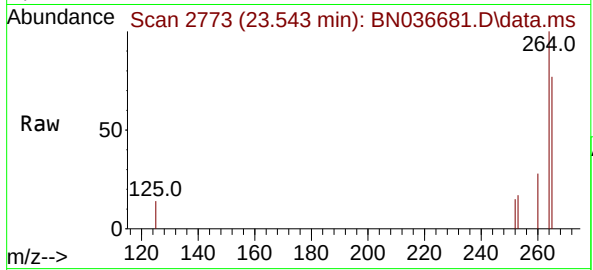




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.543 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

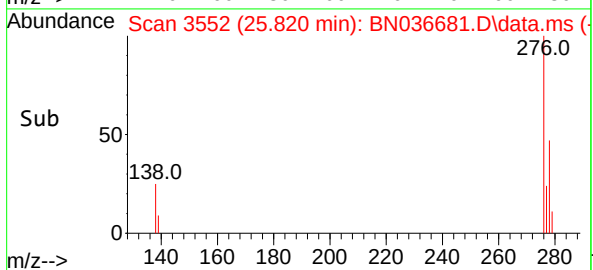
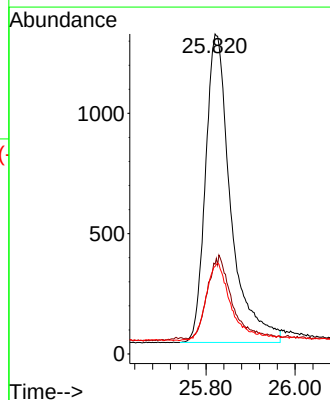
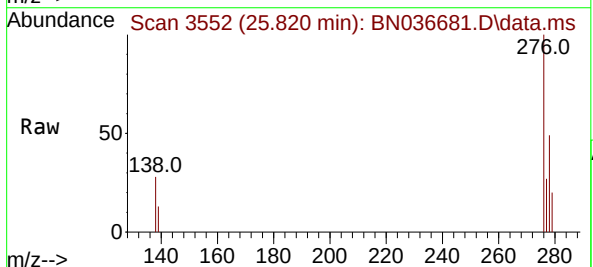
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

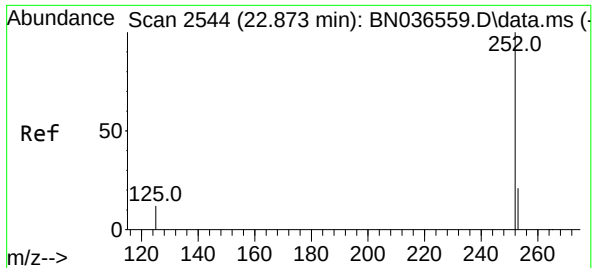
Tgt Ion:264 Resp: 3645
Ion Ratio Lower Upper
264 100
260 27.7 22.6 33.8
265 76.7 88.1 132.1#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.383 ng
RT: 25.820 min Scan# 3552
Delta R.T. -0.017 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion:276 Resp: 5036
Ion Ratio Lower Upper
276 100
138 25.8 23.4 35.2
277 24.3 20.0 30.0

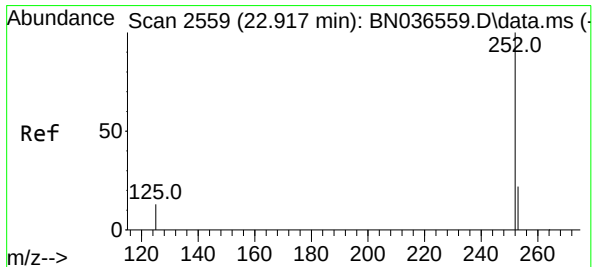
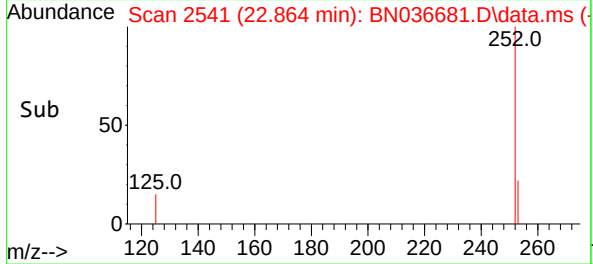
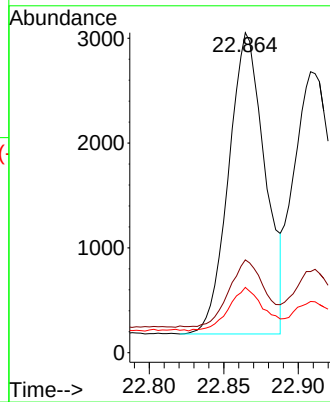
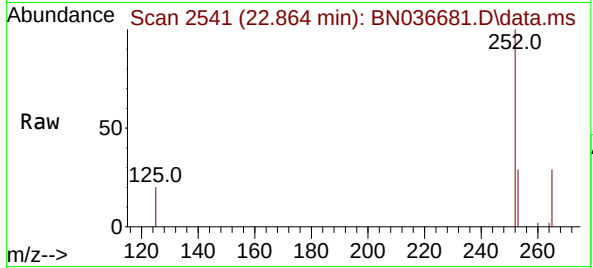




#37
Benzo(b)fluoranthene
Concen: 0.368 ng
RT: 22.864 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

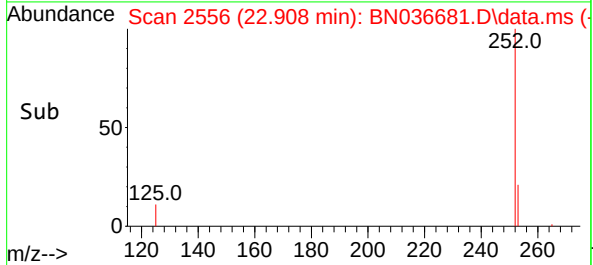
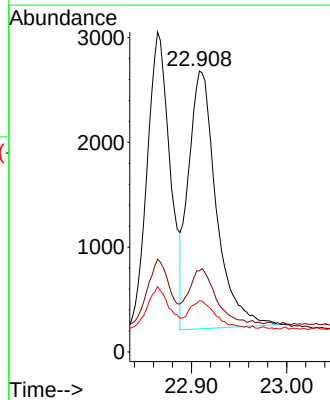
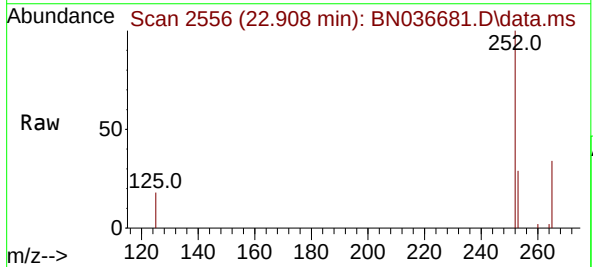
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

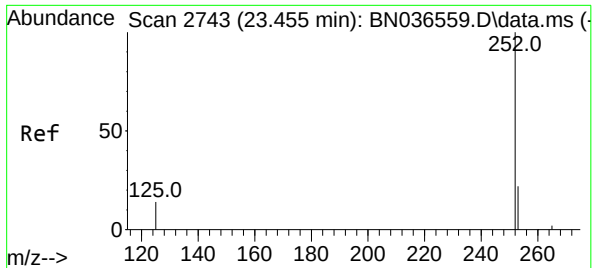
Tgt Ion:252 Resp: 4884
Ion Ratio Lower Upper
252 100
253 29.0 23.9 35.9
125 20.4 17.4 26.2



#38
Benzo(k)fluoranthene
Concen: 0.359 ng
RT: 22.908 min Scan# 2556
Delta R.T. -0.009 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion:252 Resp: 5003
Ion Ratio Lower Upper
252 100
253 28.9 24.6 36.8
125 18.2 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.380 ng

RT: 23.446 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036681.D

Acq: 18 Mar 2025 04:52

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

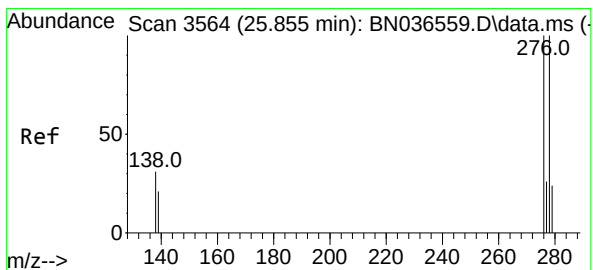
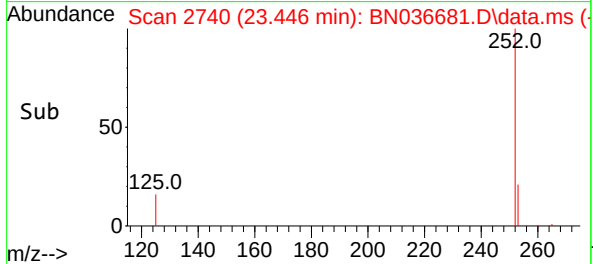
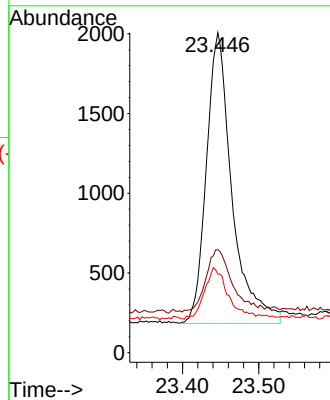
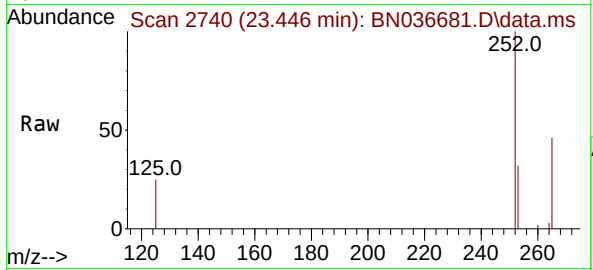
Tgt Ion:252 Resp: 4250

Ion Ratio Lower Upper

252 100

253 32.2 27.8 41.8

125 24.6 22.7 34.1



#40

Dibenzo(a,h)anthracene

Concen: 0.390 ng

RT: 25.838 min Scan# 3558

Delta R.T. -0.017 min

Lab File: BN036681.D

Acq: 18 Mar 2025 04:52

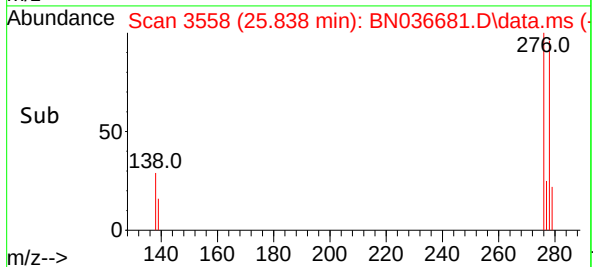
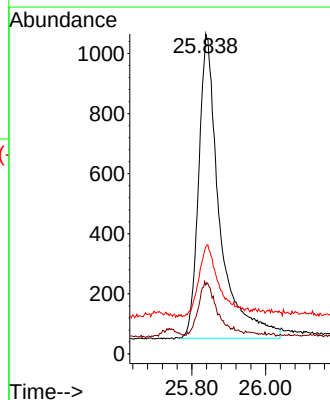
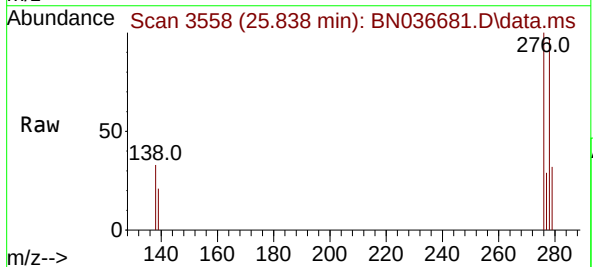
Tgt Ion:278 Resp: 3996

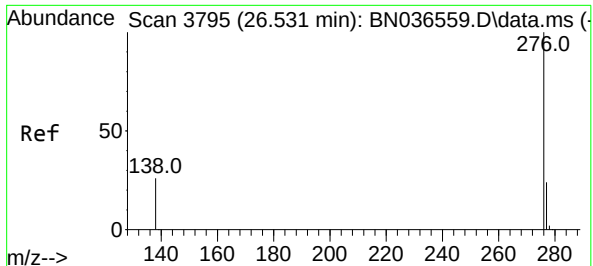
Ion Ratio Lower Upper

278 100

139 21.5 20.8 31.2

279 33.4 28.8 43.2





#41

Benzo(g,h,i)perylene

Concen: 0.392 ng

RT: 26.510 min Scan# 31

Delta R.T. -0.020 min

Lab File: BN036681.D

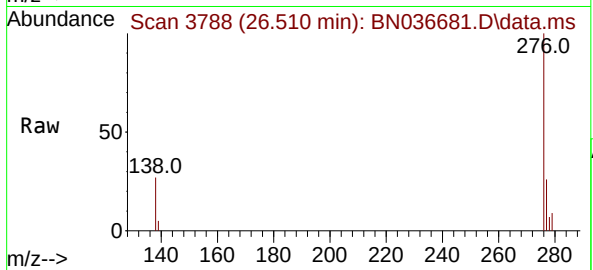
Acq: 18 Mar 2025 04:52

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



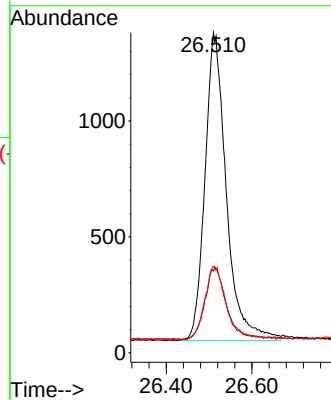
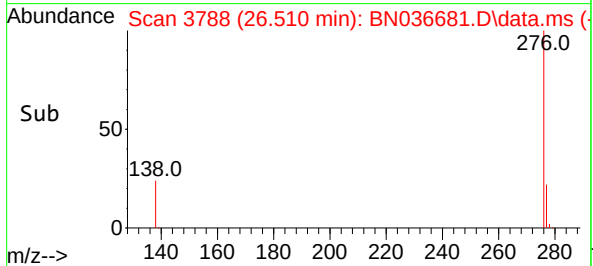
Tgt Ion:276 Resp: 4592

Ion Ratio Lower Upper

276 100

277 25.6 22.2 33.4

138 27.1 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
 Data File : BN036681.D
 Acq On : 18 Mar 2025 04:52
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Mar 18 06:01:22 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 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	107	-0.01
2	1,4-Dioxane	0.444	0.465	-4.7	100	0.00
3	n-Nitrosodimethylamine	0.898	0.907	-1.0	104	0.00
4 S	2-Fluorophenol	0.932	0.847	9.1	92	0.00
5 S	Phenol-d6	1.152	0.989	14.1	94	-0.01
6	bis(2-Chloroethyl)ether	1.190	1.000	16.0	91	-0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	113	-0.01
8 S	Nitrobenzene-d5	0.435	0.371	14.7	101	-0.01
9	Naphthalene	1.177	1.043	11.4	97	-0.01
10	Hexachlorobutadiene	0.277	0.251	9.4	96	-0.01
11 SURR	2-Methylnaphthalene-d10	0.595	0.521	12.4	97	-0.02
12	2-Methylnaphthalene	0.749	0.660	11.9	97	-0.02
13 I	Acenaphthene-d10	1.000	1.000	0.0	109	-0.01
14 S	2,4,6-Tribromophenol	0.182	0.158	13.2	92	-0.01
15 S	2-Fluorobiphenyl	2.327	2.156	7.3	98	0.00
16	Acenaphthylene	1.888	1.679	11.1	95	-0.01
17	Acenaphthene	1.236	1.117	9.6	95	-0.02
18	Fluorene	1.672	1.491	10.8	92	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	101	-0.01
20	4,6-Dinitro-2-methylphenol	0.086	0.068	20.9	89	0.00
21	4-Bromophenyl-phenylether	0.251	0.241	4.0	89	-0.01
22	Hexachlorobenzene	0.303	0.297	2.0	90	0.00
23	Atrazine	0.201	0.190	5.5	90	0.00
24	Pentachlorophenol	0.138	0.116	15.9	86	-0.01
25	Phenanthrene	1.200	1.142	4.8	89	-0.01
26	Anthracene	1.083	1.018	6.0	90	-0.01
27 SURR	Fluoranthene-d10	1.025	0.920	10.2	84	0.00
28	Fluoranthene	1.348	1.236	8.3	86	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	98	0.00
30	Pyrene	1.956	1.858	5.0	86	0.00
31 S	Terphenyl-d14	0.958	0.864	9.8	82	0.00
32	Benzo(a)anthracene	1.391	1.213	12.8	83	0.00
33	Chrysene	1.520	1.451	4.5	88	0.00
34	Bis(2-ethylhexyl)phthalate	0.990	0.902	8.9	85	0.00
35 I	Perylene-d12	1.000	1.000	0.0	103	-0.01
36	Indeno(1,2,3-cd)pyrene	1.444	1.382	4.3	92	-0.02
37	Benzo(b)fluoranthene	1.456	1.340	8.0	89	0.00
38	Benzo(k)fluoranthene	1.527	1.373	10.1	87	0.00
39 C	Benzo(a)pyrene	1.226	1.166	4.9	92	0.00
40	Dibenzo(a,h)anthracene	1.124	1.096	2.5	97	-0.02
41	Benzo(g,h,i)perylene	1.286	1.260	2.0	94	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036681.D
Acq On : 18 Mar 2025 04:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 18 06:01:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	107	-0.01
2	1,4-Dioxane	0.400	0.419	-4.7	100	0.00
3	n-Nitrosodimethylamine	0.400	0.404	-1.0	104	0.00
4 S	2-Fluorophenol	0.400	0.363	9.3	92	0.00
5 S	Phenol-d6	0.400	0.343	14.2	94	-0.01
6	bis(2-Chloroethyl)ether	0.400	0.336	16.0	91	-0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	113	-0.01
8 S	Nitrobenzene-d5	0.400	0.341	14.8	101	-0.01
9	Naphthalene	0.400	0.355	11.3	97	-0.01
10	Hexachlorobutadiene	0.400	0.363	9.3	96	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.350	12.5	97	-0.02
12	2-Methylnaphthalene	0.400	0.352	12.0	97	-0.02
13 I	Acenaphthene-d10	0.400	0.400	0.0	109	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.349	12.8	92	-0.01
15 S	2-Fluorobiphenyl	0.400	0.371	7.3	98	0.00
16	Acenaphthylene	0.400	0.356	11.0	95	-0.01
17	Acenaphthene	0.400	0.361	9.8	95	-0.02
18	Fluorene	0.400	0.357	10.8	92	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	101	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.411	-2.7	89	0.00
21	4-Bromophenyl-phenylether	0.400	0.385	3.8	89	-0.01
22	Hexachlorobenzene	0.400	0.392	2.0	90	0.00
23	Atrazine	0.400	0.377	5.8	90	0.00
24	Pentachlorophenol	0.400	0.336	16.0	86	-0.01
25	Phenanthrene	0.400	0.381	4.8	89	-0.01
26	Anthracene	0.400	0.376	6.0	90	-0.01
27 SURR	Fluoranthene-d10	0.400	0.359	10.3	84	0.00
28	Fluoranthene	0.400	0.367	8.3	86	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	98	0.00
30	Pyrene	0.400	0.380	5.0	86	0.00
31 S	Terphenyl-d14	0.400	0.360	10.0	82	0.00
32	Benzo(a)anthracene	0.400	0.349	12.8	83	0.00
33	Chrysene	0.400	0.382	4.5	88	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.364	9.0	85	0.00
35 I	Perylene-d12	0.400	0.400	0.0	103	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.383	4.3	92	-0.02
37	Benzo(b)fluoranthene	0.400	0.368	8.0	89	0.00
38	Benzo(k)fluoranthene	0.400	0.359	10.3	87	0.00
39 C	Benzo(a)pyrene	0.400	0.380	5.0	92	0.00
40	Dibenzo(a,h)anthracene	0.400	0.390	2.5	97	-0.02
41	Benzo(g,h,i)perylene	0.400	0.392	2.0	94	-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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG No.: Q1582

Instrument ID: BNA_N Calibration Date/Time: 03/18/2025 09:21

Lab File ID: BN036683.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.523		-12.1	20.0
Fluoranthene-d10	1.025	0.969		-5.5	20.0
2-Fluorophenol	0.932	0.812		-12.9	20.0
Phenol-d6	1.152	1.004		-12.8	20.0
Nitrobenzene-d5	0.435	0.380		-12.6	20.0
2-Fluorobiphenyl	2.327	2.136		-8.2	20.0
2,4,6-Tribromophenol	0.182	0.172		-5.5	20.0
Terphenyl-d14	0.958	0.834		-12.9	20.0
1,4-Dioxane	0.444	0.465		4.7	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
 Data File : BN036683.D
 Acq On : 18 Mar 2025 09:21
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Mar 18 10:42:23 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

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

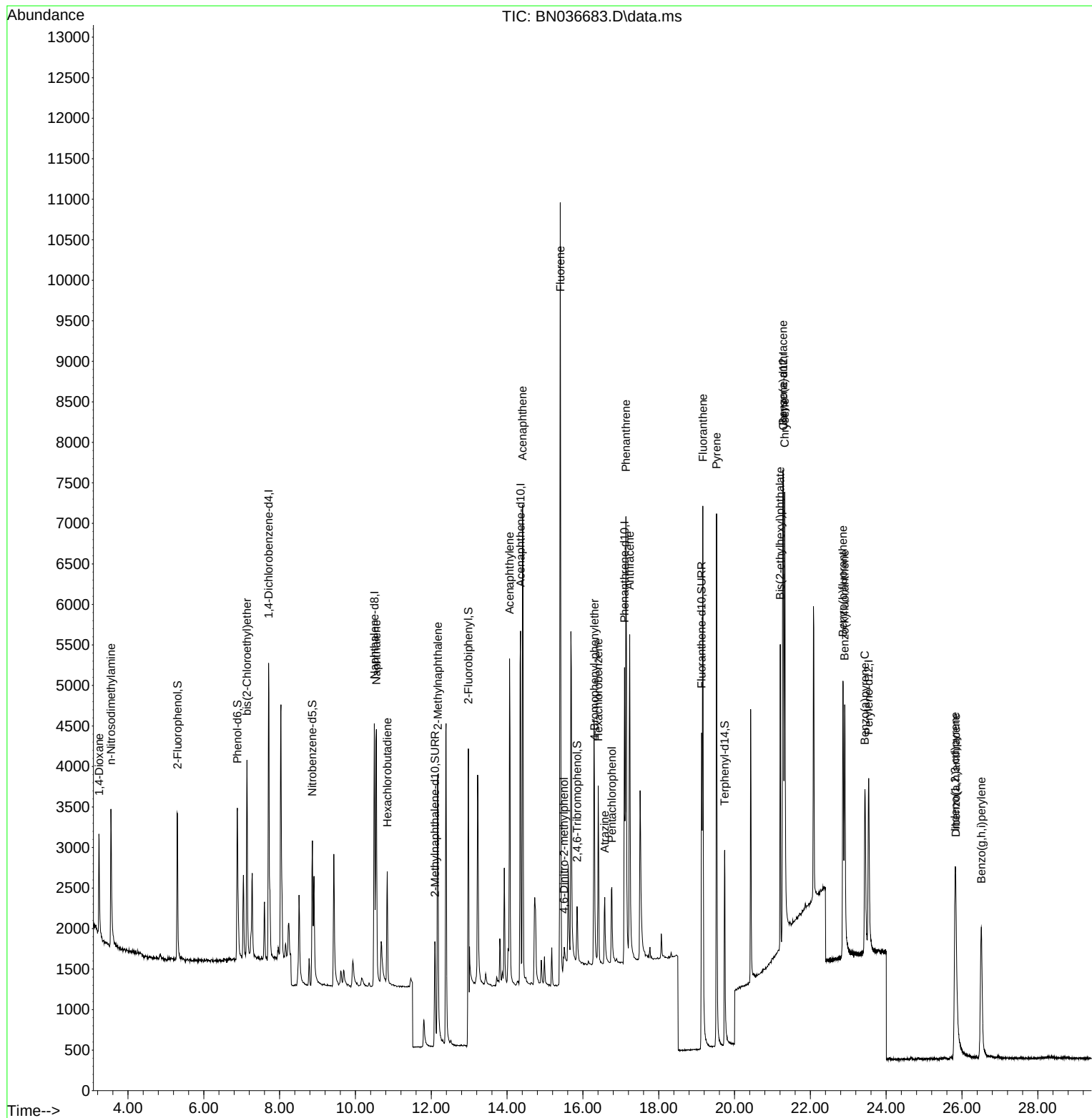
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	1819	0.400	ng	-0.01
7) Naphthalene-d8	10.498	136	4524	0.400	ng	-0.01
13) Acenaphthene-d10	14.355	164	2641	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	5270	0.400	ng	-0.01
29) Chrysene-d12	21.286	240	3871	0.400	ng	0.00
35) Perylene-d12	23.537	264	3319	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	1477	0.348	ng	0.00
5) Phenol-d6	6.886	99	1826	0.349	ng	-0.01
8) Nitrobenzene-d5	8.864	82	1719	0.349	ng	-0.01
11) 2-Methylnaphthalene-d10	12.096	152	2368	0.352	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	453	0.378	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	5641	0.367	ng	-0.01
27) Fluoranthene-d10	19.132	212	5107	0.378	ng	0.00
31) Terphenyl-d14	19.740	244	3227	0.348	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.239	88	845	0.419	ng	97
3) n-Nitrosodimethylamine	3.550	42	1629	0.399	ng	90
6) bis(2-Chloroethyl)ether	7.139	93	1789	0.330	ng	95
9) Naphthalene	10.551	128	4773	0.359	ng	99
10) Hexachlorobutadiene	10.840	225	1126	0.359	ng	# 98
12) 2-Methylnaphthalene	12.172	142	3000	0.354	ng	98
16) Acenaphthylene	14.067	152	4550	0.365	ng	100
17) Acenaphthene	14.409	154	2968	0.364	ng	100
18) Fluorene	15.403	166	4104	0.372	ng	100
20) 4,6-Dinitro-2-methylph...	15.499	198	334	0.394	ng	94
21) 4-Bromophenyl-phenylether	16.304	248	1254	0.380	ng	# 78
22) Hexachlorobenzene	16.404	284	1466	0.368	ng	94
23) Atrazine	16.577	200	977	0.369	ng	95
24) Pentachlorophenol	16.764	266	643	0.354	ng	99
25) Phenanthrene	17.136	178	6044	0.382	ng	99
26) Anthracene	17.235	178	5428	0.381	ng	99
28) Fluoranthene	19.164	202	6897	0.388	ng	99
30) Pyrene	19.527	202	6775	0.358	ng	99
32) Benzo(a)anthracene	21.277	228	4798	0.356	ng	99
33) Chrysene	21.322	228	5558	0.378	ng	99
34) Bis(2-ethylhexyl)phtha...	21.205	149	3479	0.363	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.817	276	4216	0.352	ng	95
37) Benzo(b)fluoranthene	22.861	252	4509	0.373	ng	97
38) Benzo(k)fluoranthene	22.905	252	4672	0.369	ng	96
39) Benzo(a)pyrene	23.440	252	3758	0.369	ng	97
40) Dibenzo(a,h)anthracene	25.838	278	3134	0.336	ng	98
41) Benzo(g,h,i)perylene	26.513	276	3819	0.358	ng	98

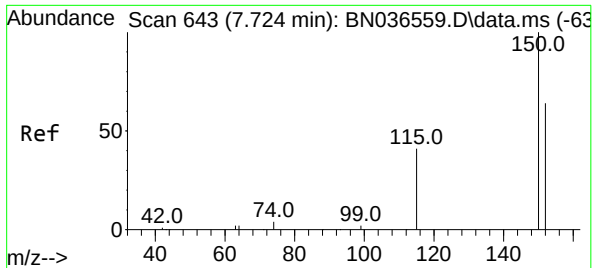
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
Data File : BN036683.D
Acq On : 18 Mar 2025 09:21
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 18 10:42:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

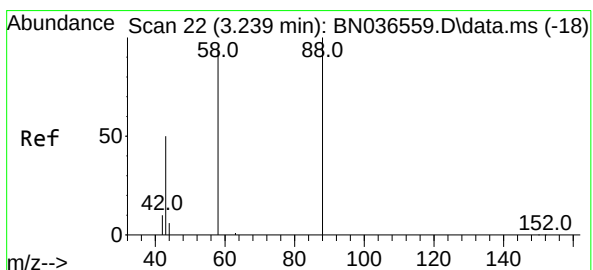
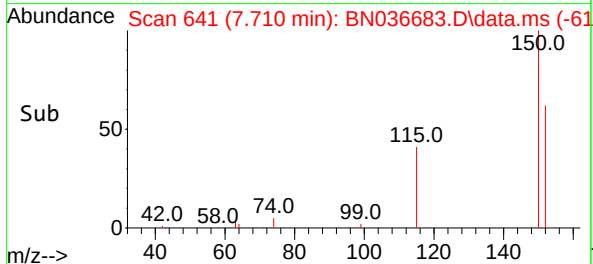
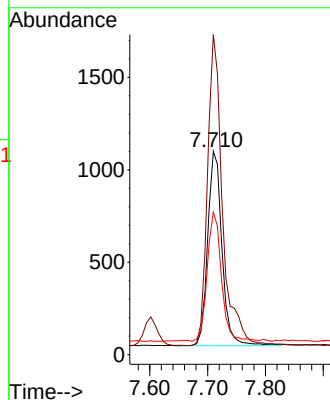
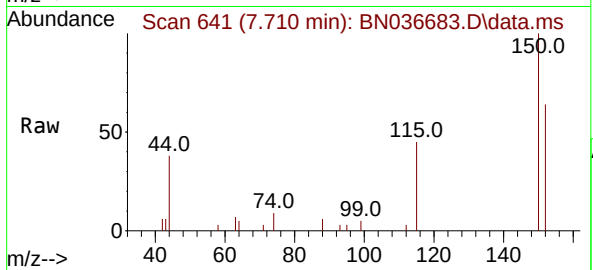




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 64
Delta R.T. -0.014 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

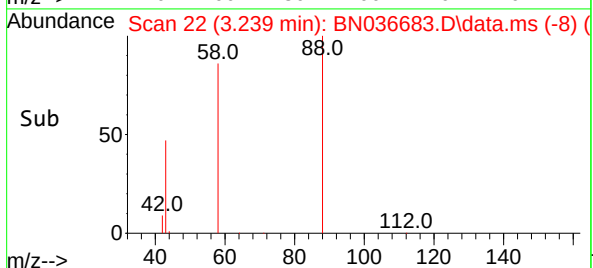
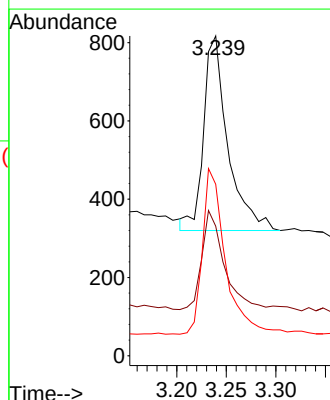
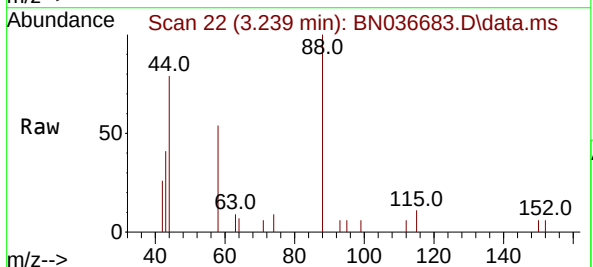
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1819
Ion Ratio Lower Upper
152 100
150 157.4 123.7 185.5
115 70.1 54.3 81.5

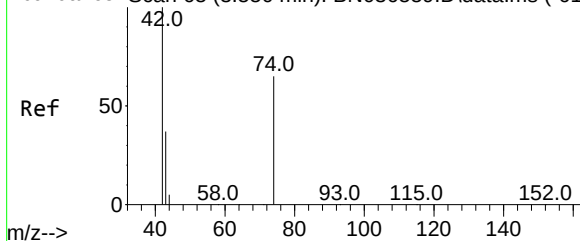


#2
1,4-Dioxane
Concen: 0.419 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion: 88 Resp: 845
Ion Ratio Lower Upper
88 100
43 47.8 37.8 56.8
58 79.9 67.4 101.2



Abundance Scan 65 (3.550 min): BN036559.D\data.ms (-61)



#3

n-Nitrosodimethylamine

Concen: 0.399 ng

RT: 3.550 min Scan# 61

Delta R.T. 0.000 min

Lab File: BN036683.D

Acq: 18 Mar 2025 09:21

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 1629

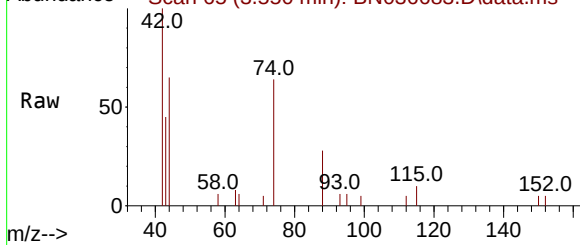
Ion Ratio Lower Upper

42 100

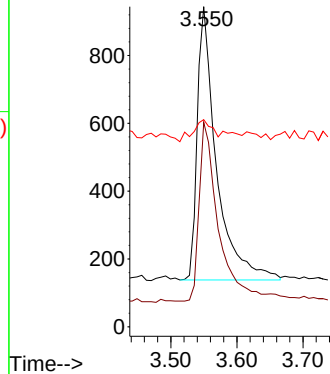
74 66.4 60.6 90.8

44 7.8 6.3 9.5

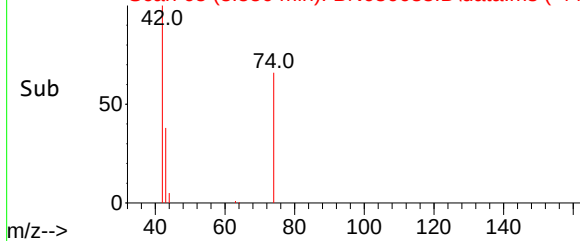
Abundance Scan 65 (3.550 min): BN036683.D\data.ms



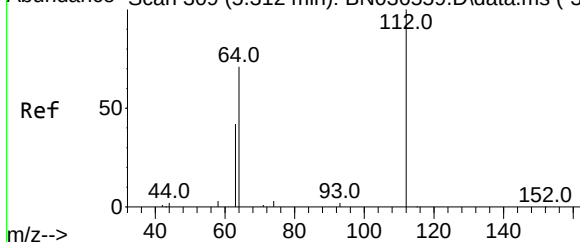
Abundance



Abundance Scan 65 (3.550 min): BN036683.D\data.ms (-44)



Abundance Scan 309 (5.312 min): BN036559.D\data.ms (-30)



#4

2-Fluorophenol

Concen: 0.348 ng

RT: 5.305 min Scan# 308

Delta R.T. -0.007 min

Lab File: BN036683.D

Acq: 18 Mar 2025 09:21

Tgt Ion: 112 Resp: 1477

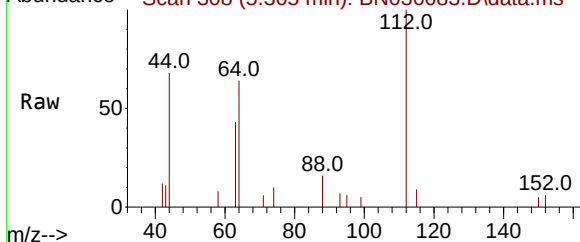
Ion Ratio Lower Upper

112 100

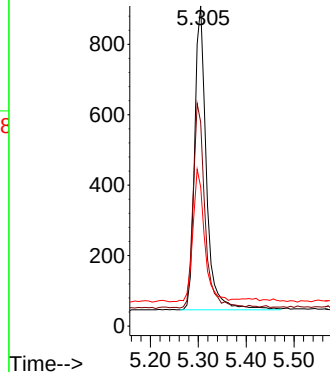
64 67.8 53.1 79.7

63 43.1 31.8 47.8

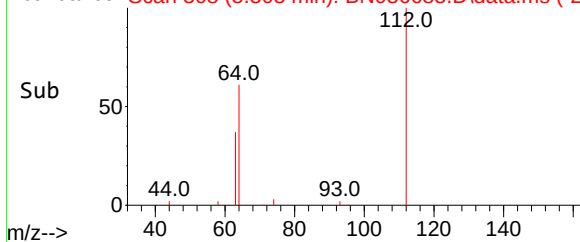
Abundance Scan 308 (5.305 min): BN036683.D\data.ms

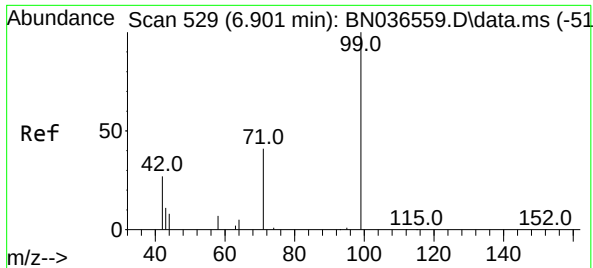


Abundance



Abundance Scan 308 (5.305 min): BN036683.D\data.ms (-28)

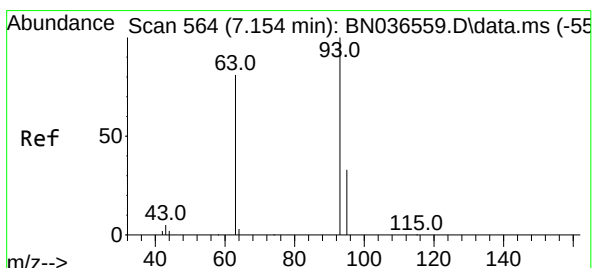
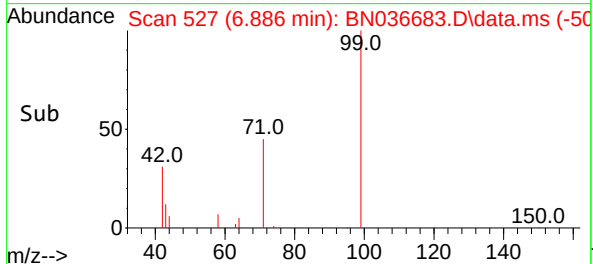
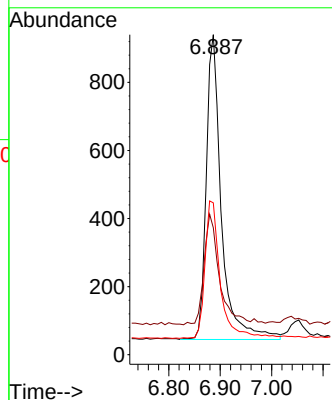
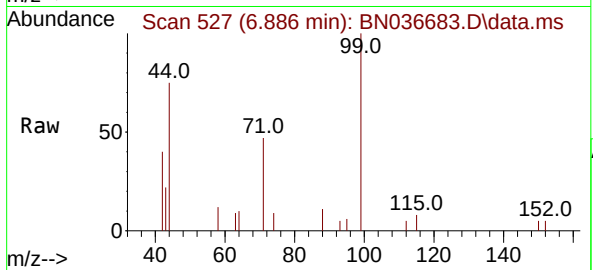




#5
Phenol-d6
Concen: 0.349 ng
RT: 6.886 min Scan# 51
Delta R.T. -0.014 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

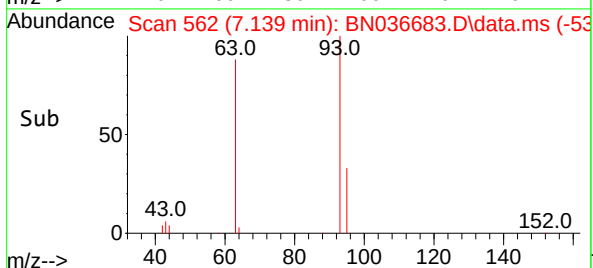
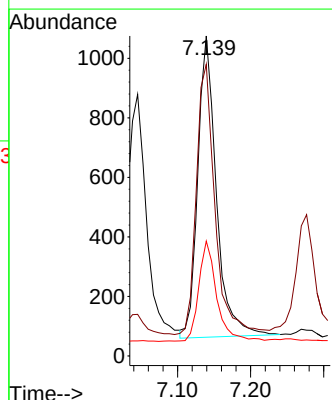
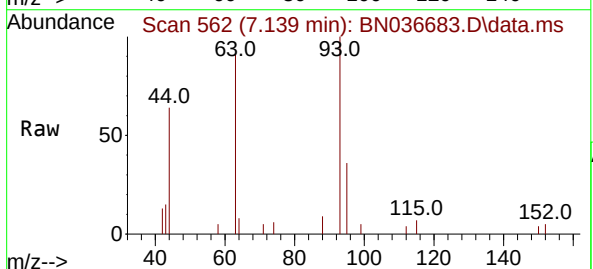
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

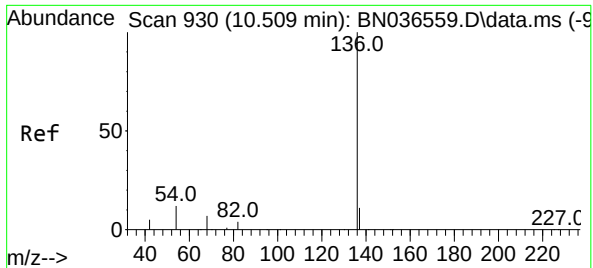
Tgt Ion: 99 Resp: 1826
Ion Ratio Lower Upper
99 100
42 37.1 26.5 39.7
71 46.3 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.330 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.014 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion: 93 Resp: 1789
Ion Ratio Lower Upper
93 100
63 90.4 67.7 101.5
95 32.4 25.6 38.4

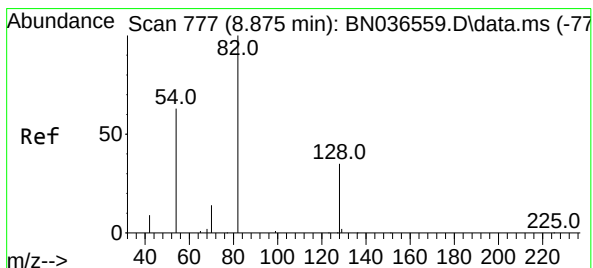
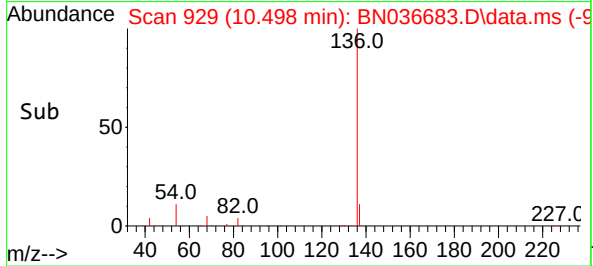
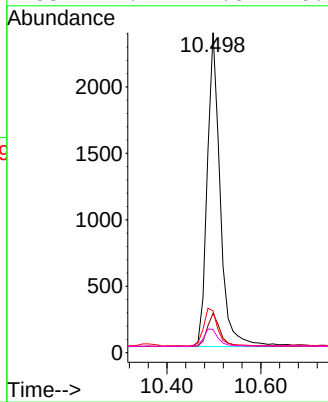
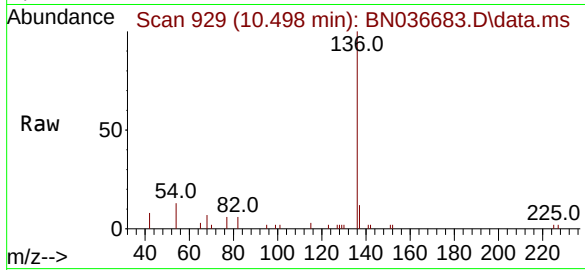




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

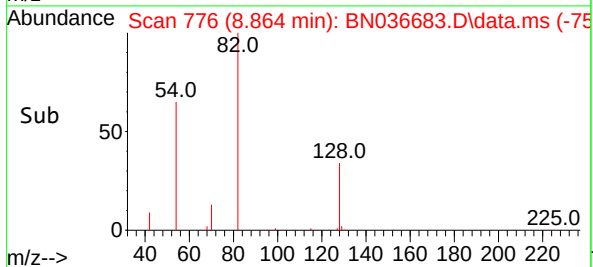
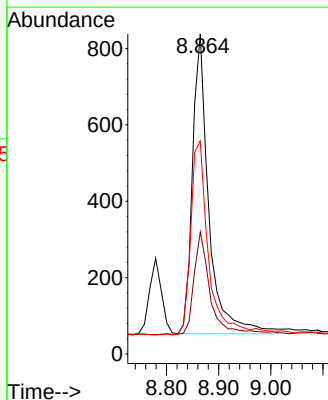
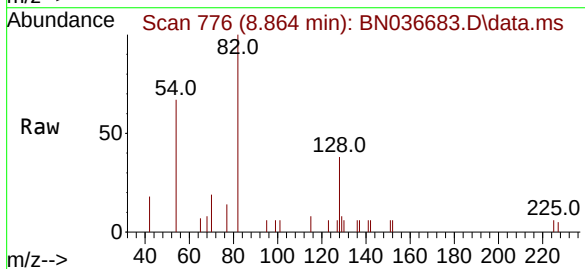
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

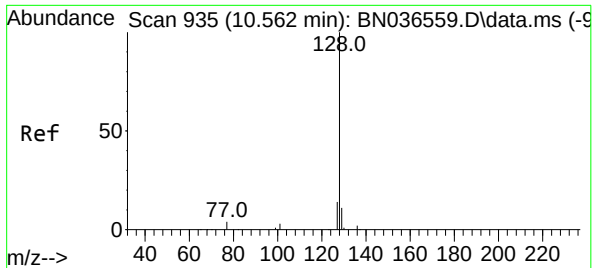
Tgt Ion:	136	Resp:	4524
Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.3	15.5
54	13.0	11.5	17.3
68	7.2	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.349 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:	82	Resp:	1719
Ion	Ratio	Lower	Upper
82	100		
128	38.2	30.6	45.8
54	66.6	52.2	78.4

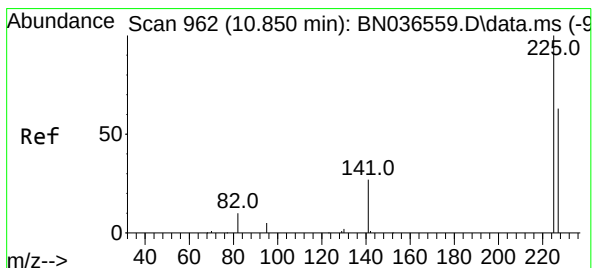
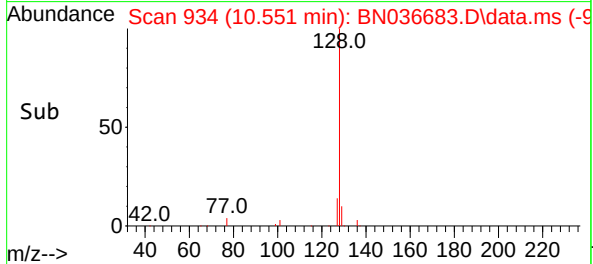
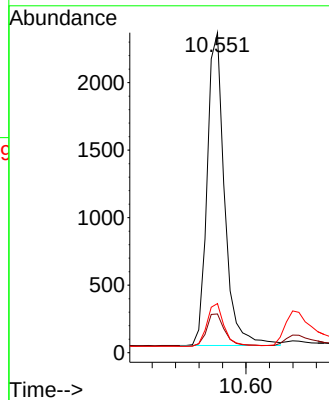
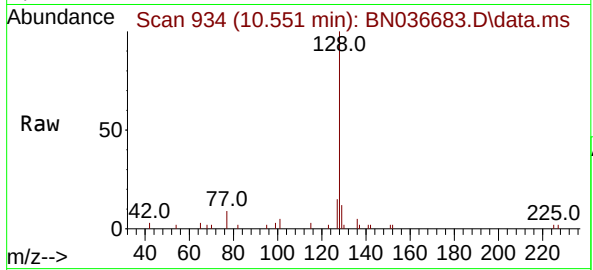




#9
Naphthalene
Concen: 0.359 ng
RT: 10.551 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

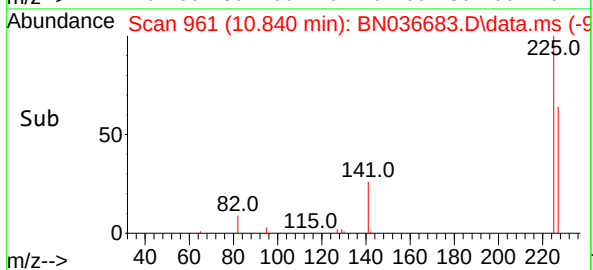
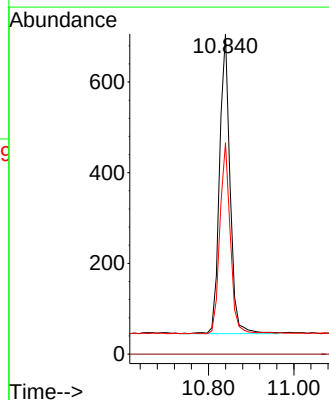
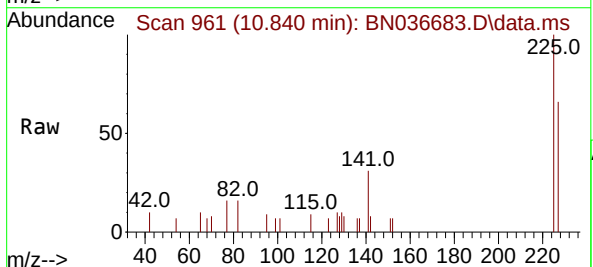
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

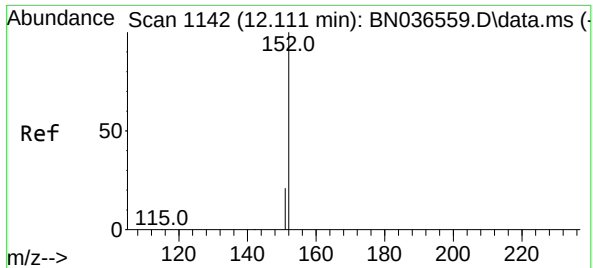
Tgt Ion:	128	Resp:	4773
Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.8	14.6
127	15.4	11.8	17.8



#10
Hexachlorobutadiene
Concen: 0.359 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:	225	Resp:	1126
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	51.8	77.8

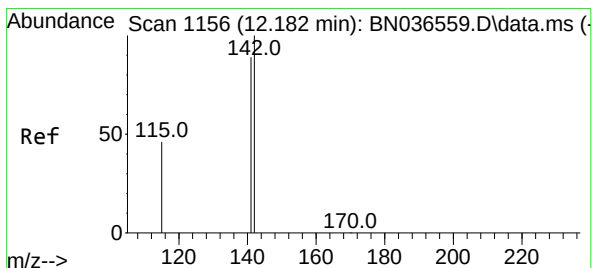
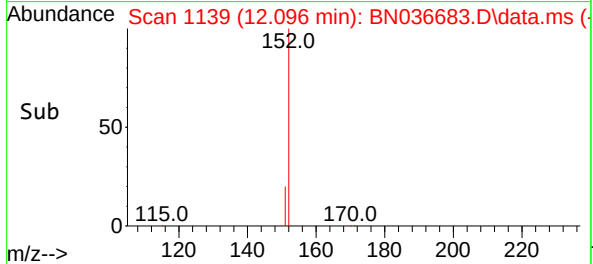
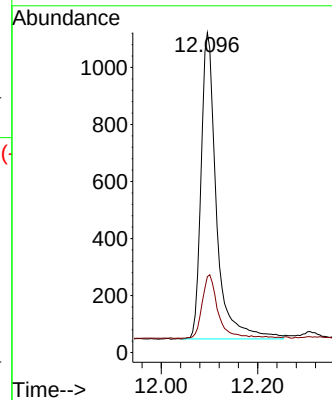
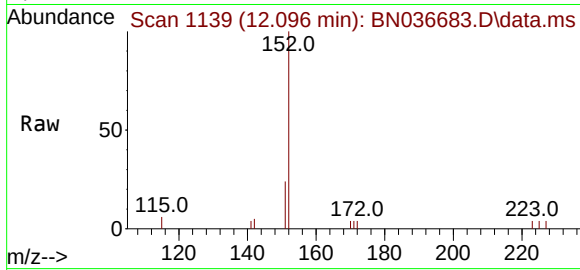




#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

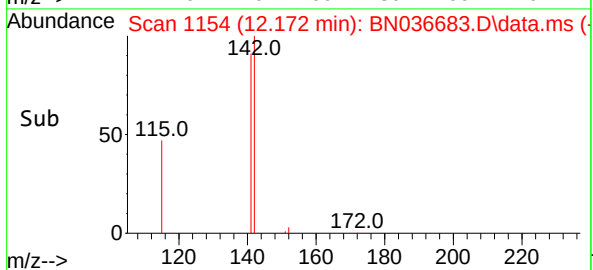
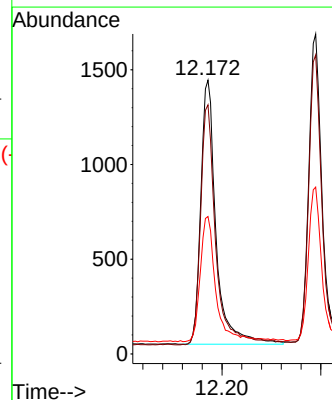
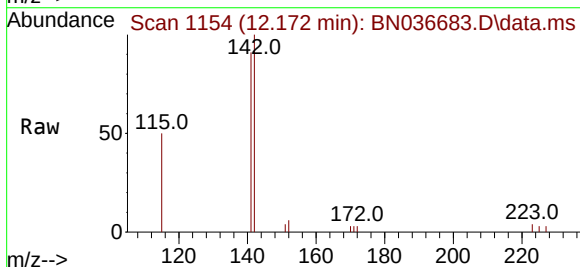
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

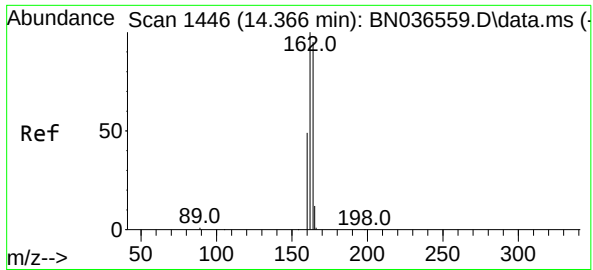
Tgt Ion:152 Resp: 2368
Ion Ratio Lower Upper
152 100
151 21.7 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.354 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:142 Resp: 3000
Ion Ratio Lower Upper
142 100
141 91.0 71.7 107.5
115 50.2 38.3 57.5

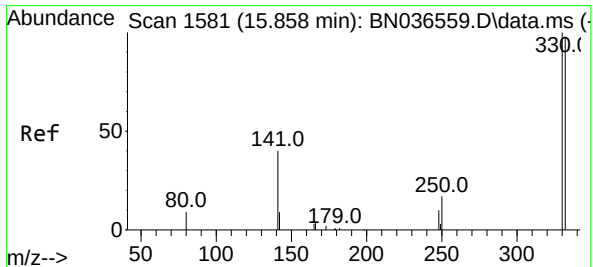
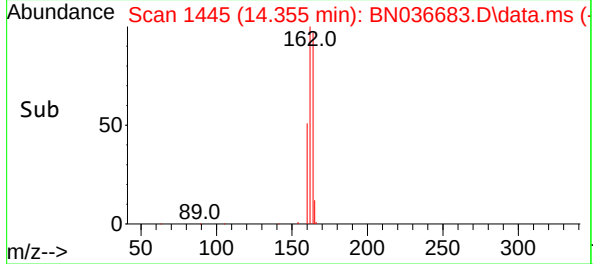
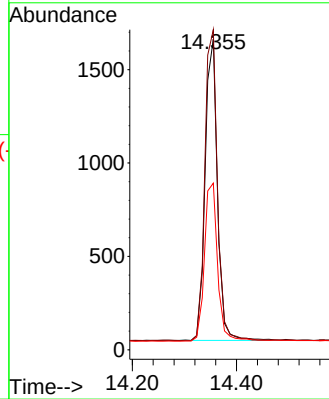
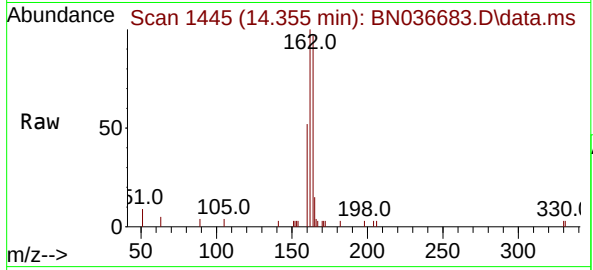




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

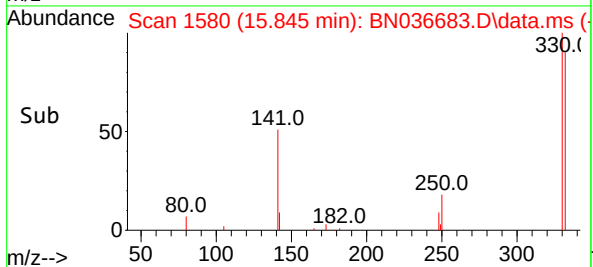
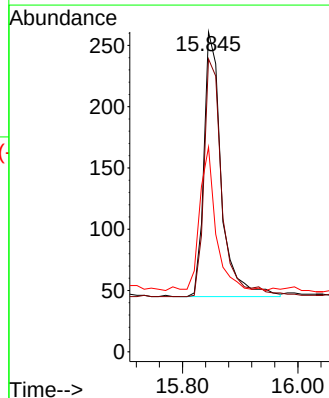
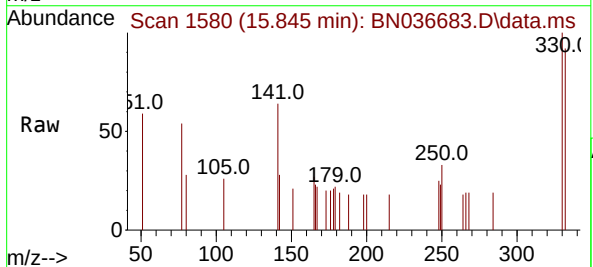
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

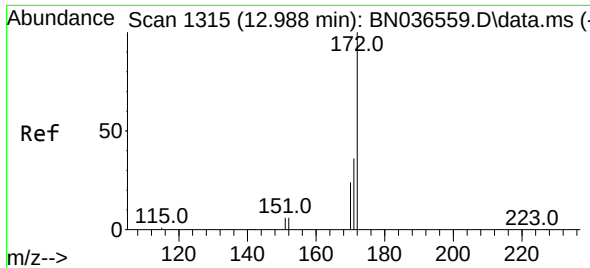
Tgt Ion:164 Resp: 2641
Ion Ratio Lower Upper
164 100
162 103.0 84.2 126.2
160 53.6 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.378 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:330 Resp: 453
Ion Ratio Lower Upper
330 100
332 93.2 75.2 112.8
141 51.2 43.4 65.2

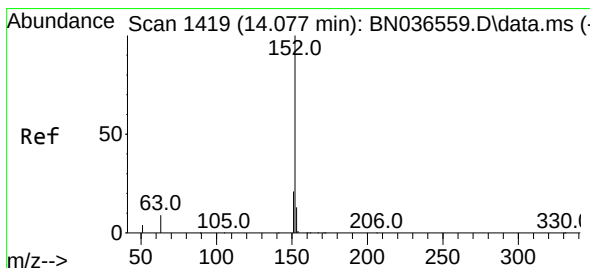
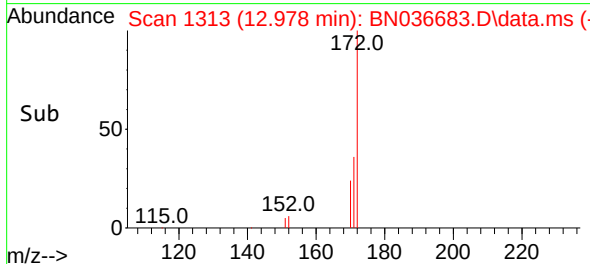
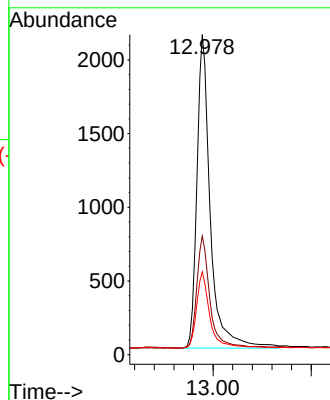
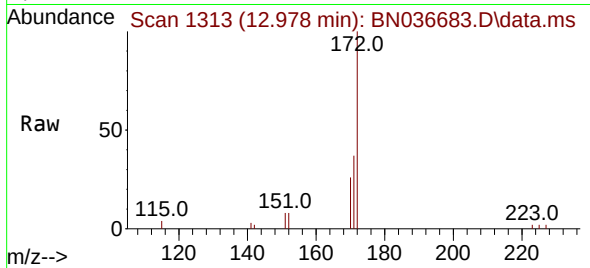




#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 12.978 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

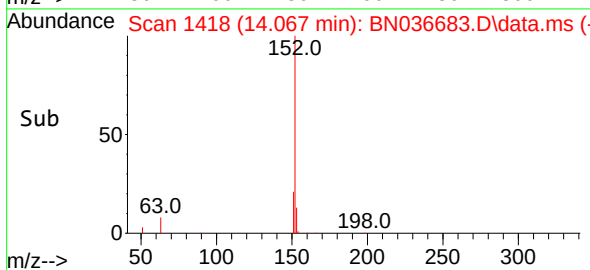
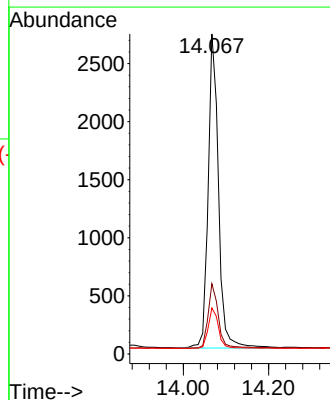
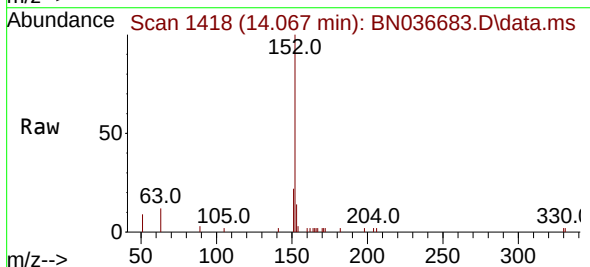
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

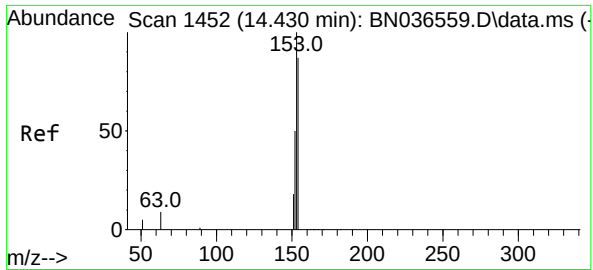
Tgt Ion:	172	Resp:	5641
Ion	Ratio	Lower	Upper
172	100		
171	37.1	29.5	44.3
170	25.9	20.2	30.4



#16
Acenaphthylene
Concen: 0.365 ng
RT: 14.067 min Scan# 1418
Delta R.T. -0.011 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:	152	Resp:	4550
Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.4
153	12.9	10.6	15.8

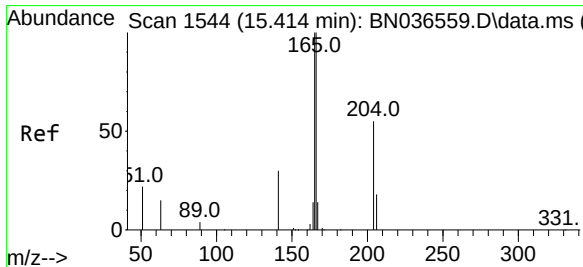
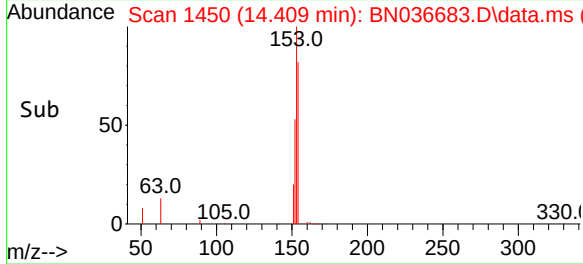
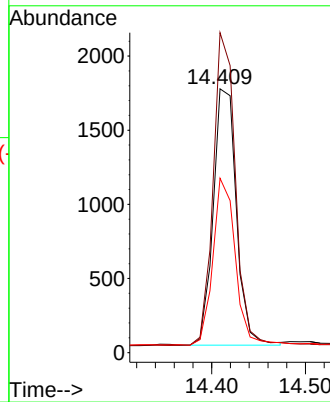
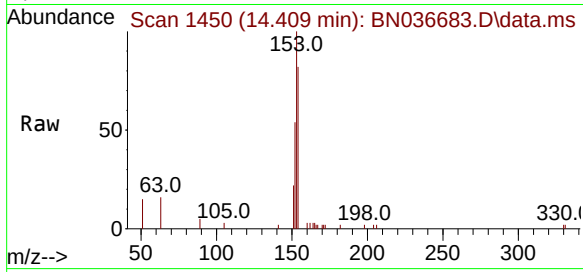




#17
Acenaphthene
Concen: 0.364 ng
RT: 14.409 min Scan# 1450
Delta R.T. -0.021 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

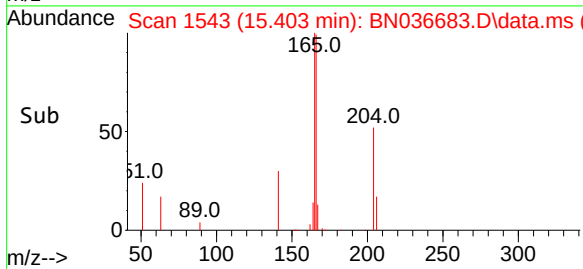
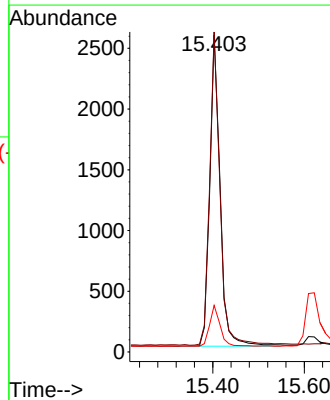
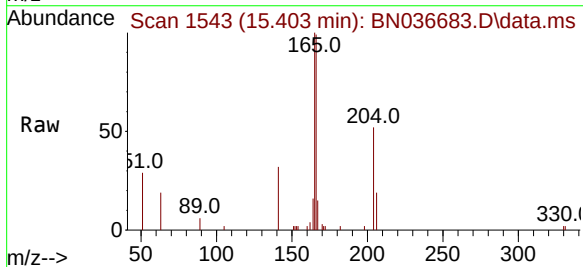
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

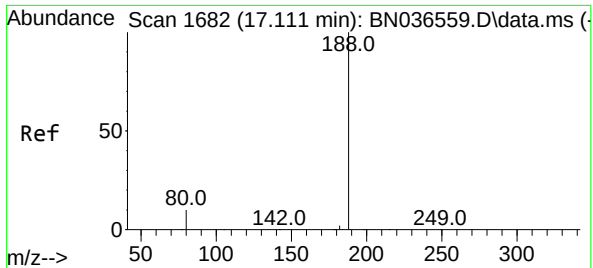
Tgt Ion:	154	Resp:	2968
Ion	Ratio	Lower	Upper
154	100		
153	117.6	94.1	141.1
152	63.2	49.8	74.6



#18
Fluorene
Concen: 0.372 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.011 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:	166	Resp:	4104
Ion	Ratio	Lower	Upper
166	100		
165	99.5	79.8	119.8
167	13.1	10.6	15.8

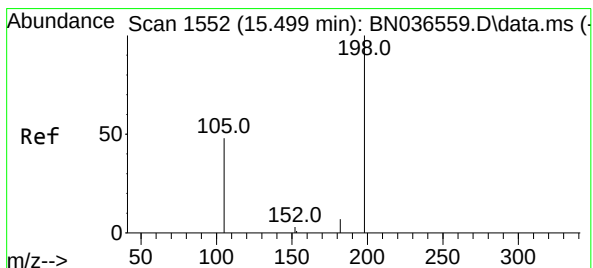
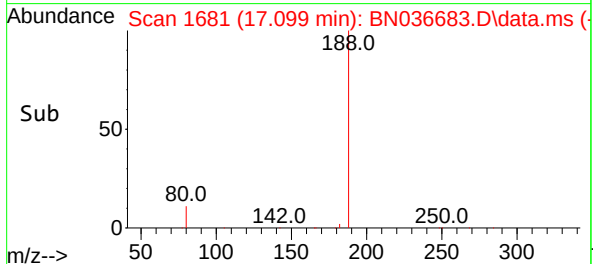
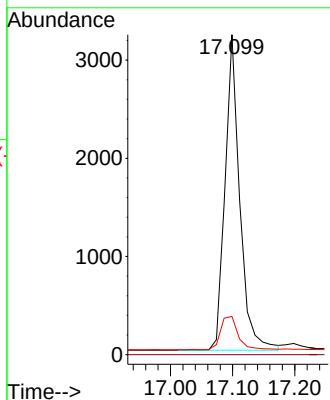
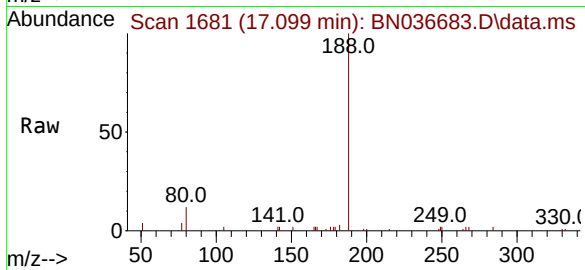




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

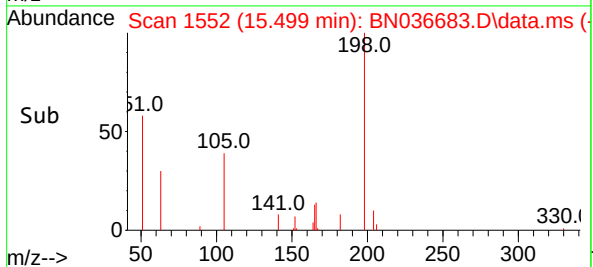
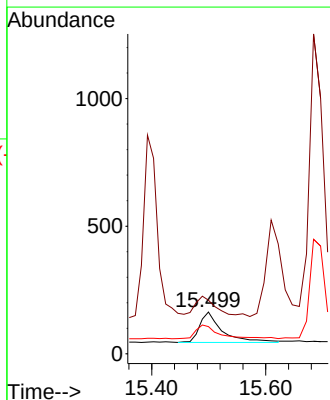
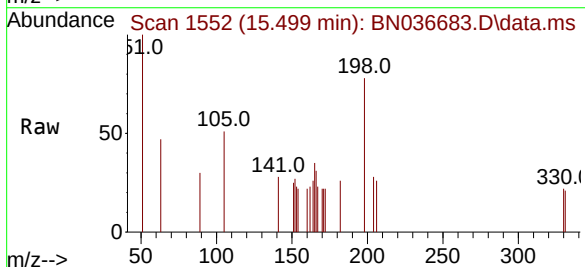
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

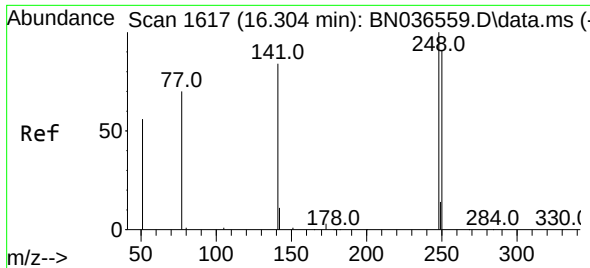
Tgt Ion:188 Resp: 5270
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.0 8.8 13.2



#20
4,6-Dinitro-2-methylphenol
Concen: 0.394 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:198 Resp: 334
Ion Ratio Lower Upper
198 100
51 128.0 107.9 161.9
105 65.2 56.2 84.2

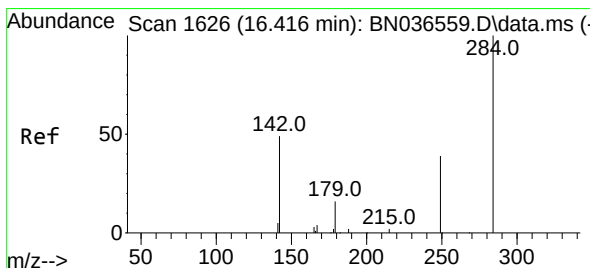
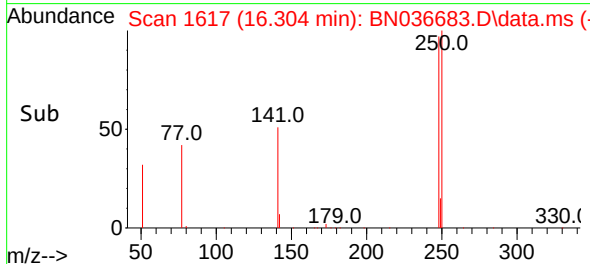
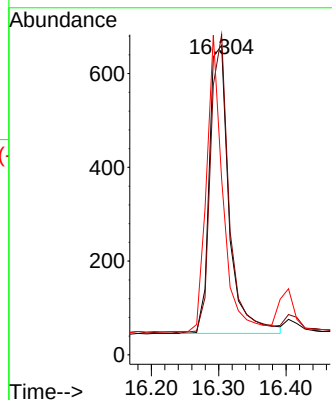
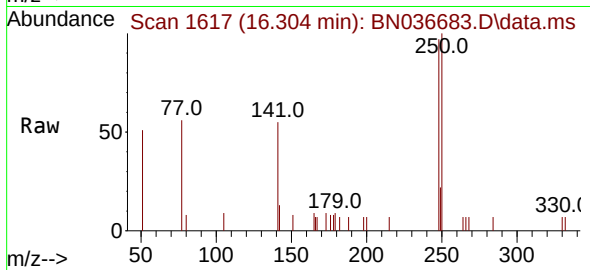




#21
4-Bromophenyl-phenylether
Concen: 0.380 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

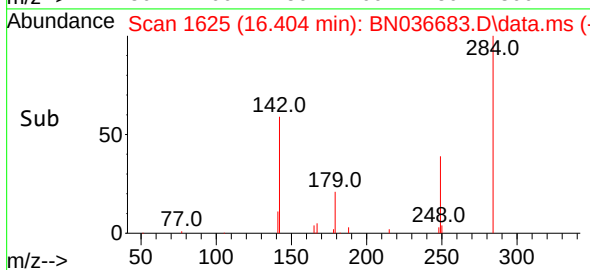
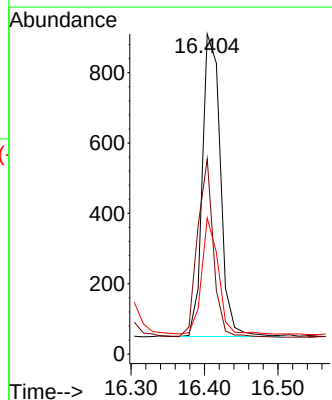
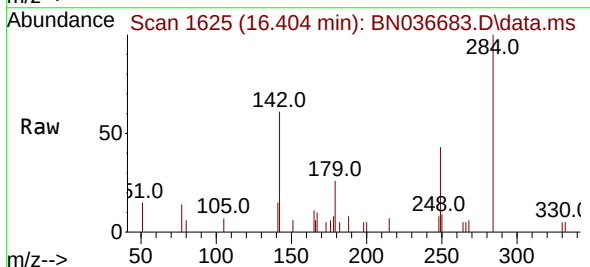
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

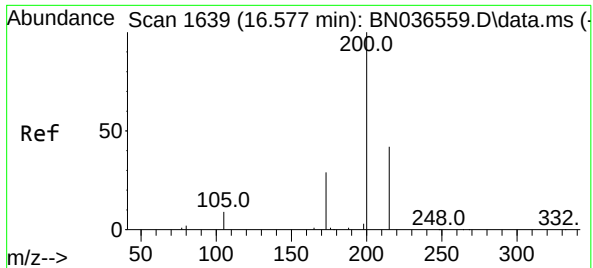
Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.5	73.0	109.6
141	56.8	68.6	103.0



#22
Hexachlorobenzene
Concen: 0.368 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.012 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion	Ratio	Lower	Upper
284	100		
142	52.3	37.0	55.4
249	36.4	28.1	42.1

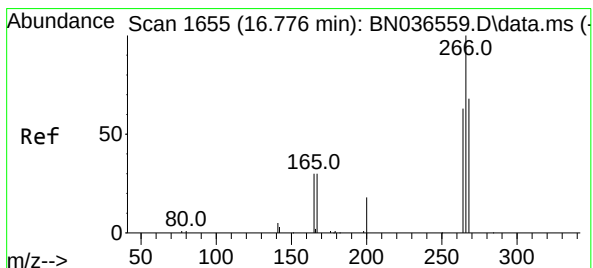
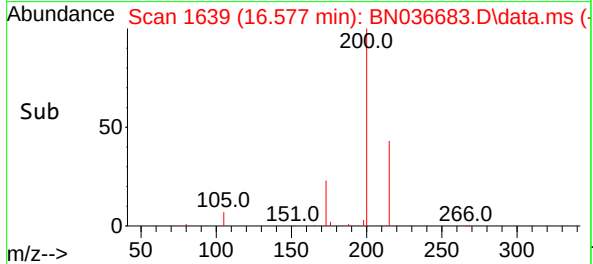
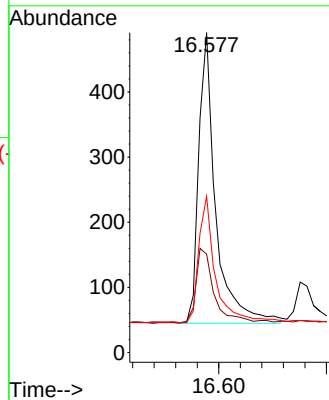
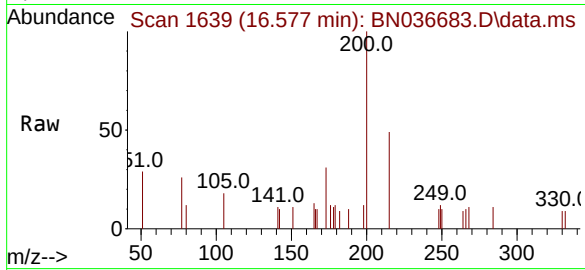




#23
Atrazine
Concen: 0.369 ng
RT: 16.577 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

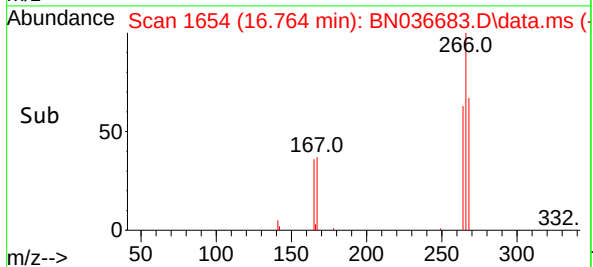
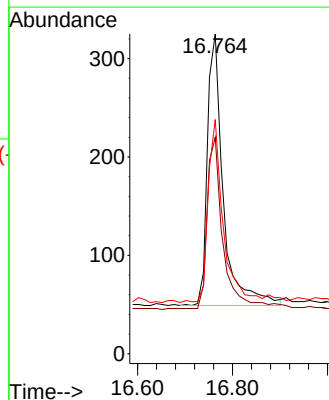
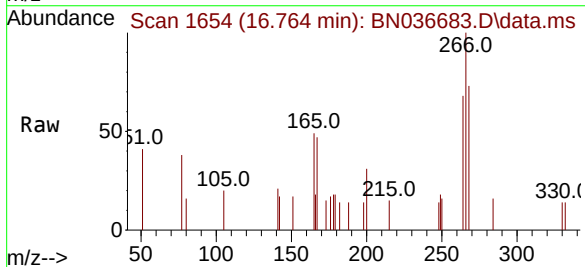
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

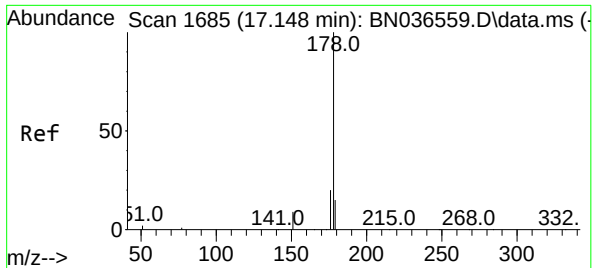
Tgt Ion:	200	Resp:	977
Ion Ratio	Lower	Upper	
200	100		
173	30.8	27.3	40.9
215	48.9	36.8	55.2



#24
Pentachlorophenol
Concen: 0.354 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:	266	Resp:	643
Ion Ratio	Lower	Upper	
266	100		
264	62.7	49.6	74.4
268	64.1	50.9	76.3

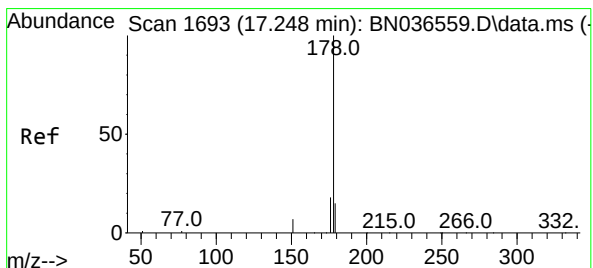
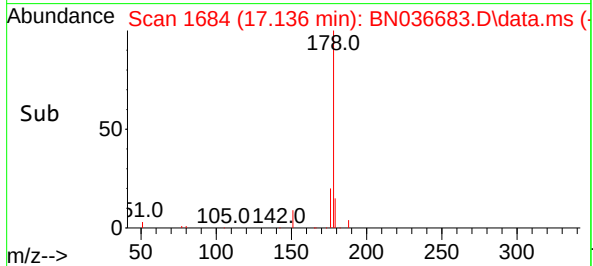
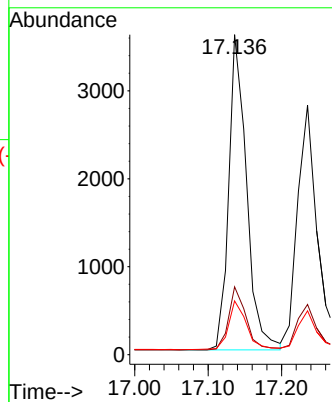
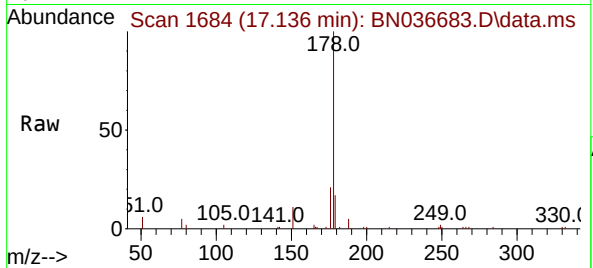




#25
Phenanthrene
Concen: 0.382 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.012 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

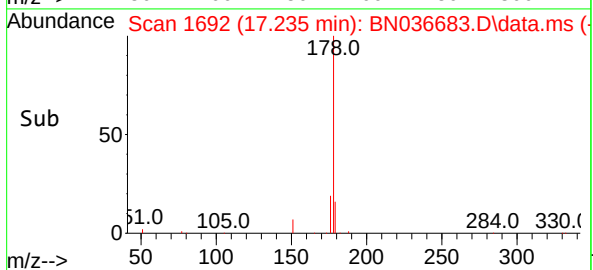
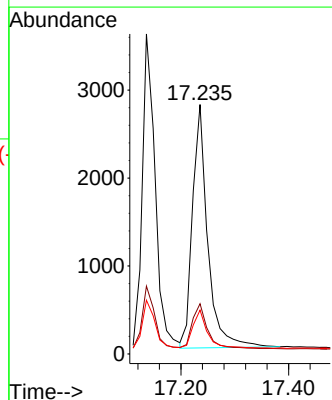
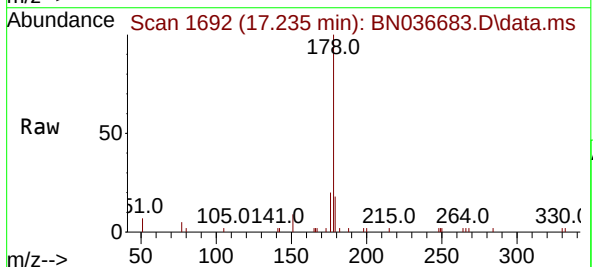
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

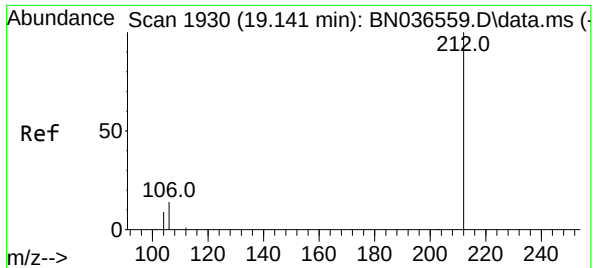
Tgt Ion:178 Resp: 6044
Ion Ratio Lower Upper
178 100
176 19.6 15.9 23.9
179 15.8 12.2 18.4



#26
Anthracene
Concen: 0.381 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:178 Resp: 5428
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 15.5 12.6 18.8

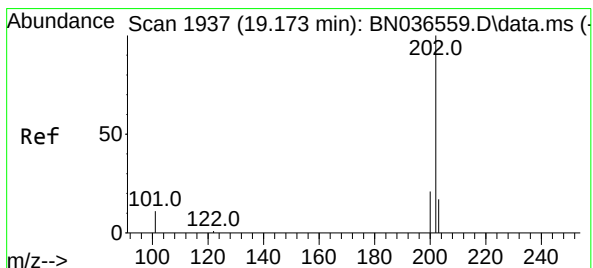
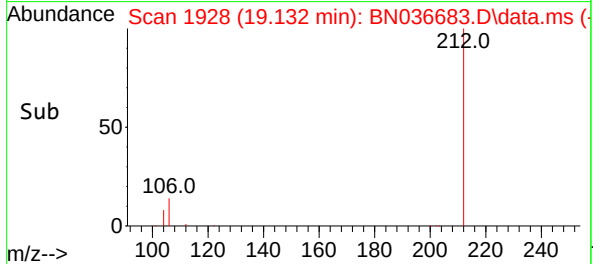
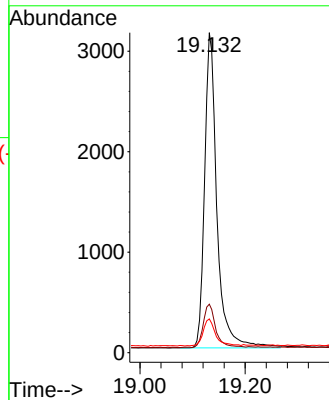
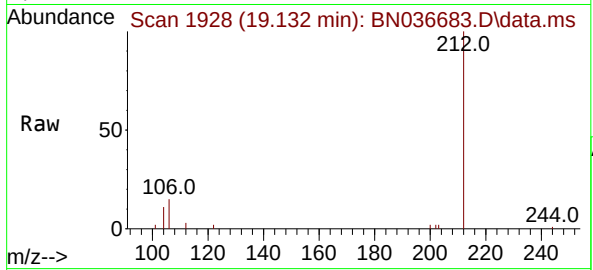




#27
Fluoranthene-d10
Concen: 0.378 ng
RT: 19.132 min Scan# 1913
Delta R.T. -0.009 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

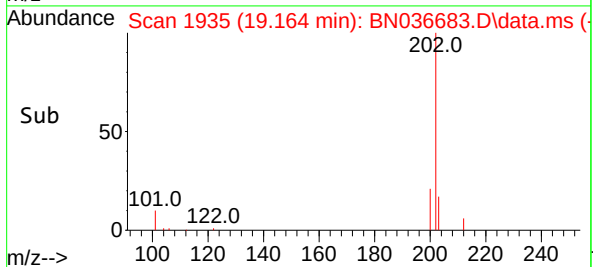
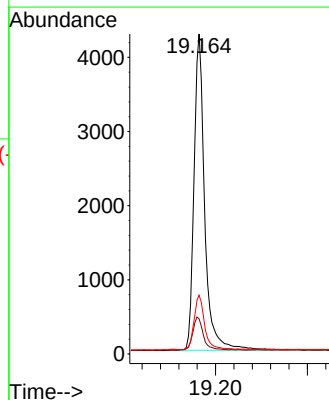
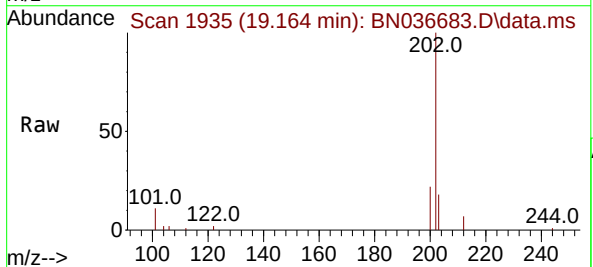
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

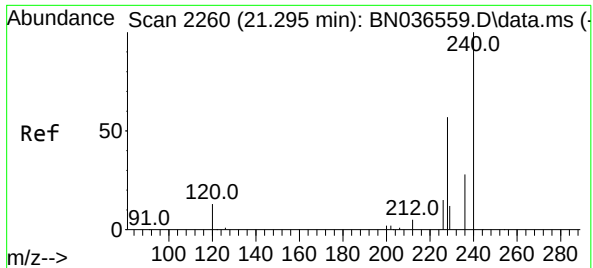
Tgt Ion:	212	Resp:	5107
Ion	Ratio	Lower	Upper
212	100		
106	13.8	11.8	17.6
104	8.6	7.3	10.9



#28
Fluoranthene
Concen: 0.388 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:	202	Resp:	6897
Ion	Ratio	Lower	Upper
202	100		
101	10.4	9.4	14.0
203	16.9	13.5	20.3

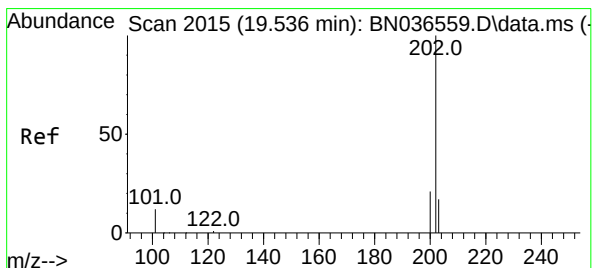
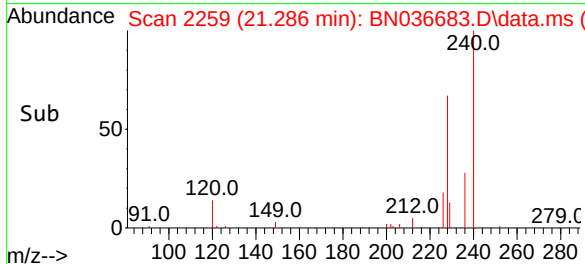
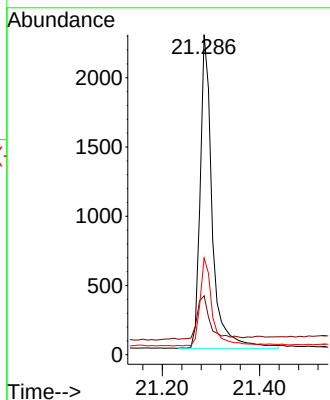
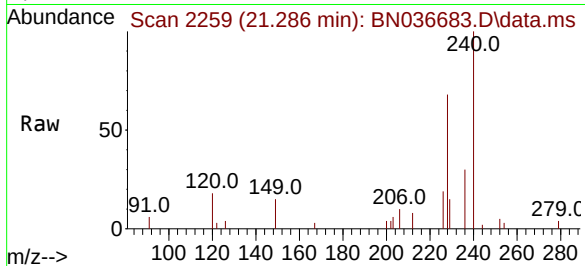




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.286 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

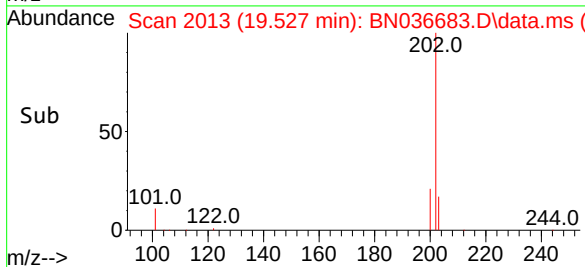
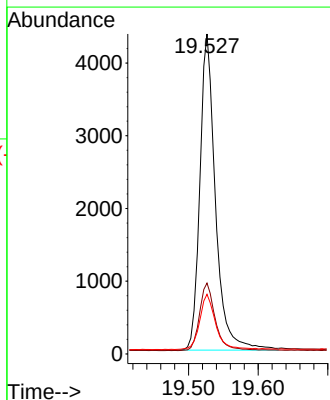
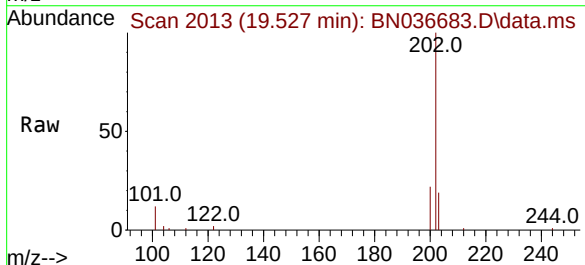
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

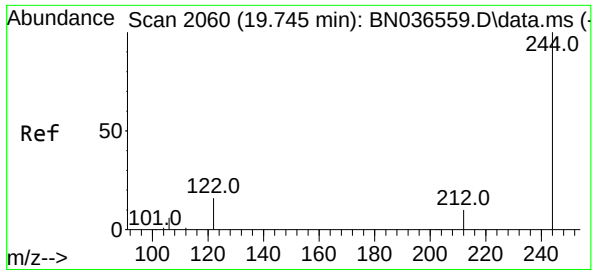
Tgt Ion:240 Resp: 3871
Ion Ratio Lower Upper
240 100
120 18.4 14.6 22.0
236 30.2 24.1 36.1



#30
Pyrene
Concen: 0.358 ng
RT: 19.527 min Scan# 2013
Delta R.T. -0.009 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:202 Resp: 6775
Ion Ratio Lower Upper
202 100
200 21.6 17.1 25.7
203 17.9 14.1 21.1

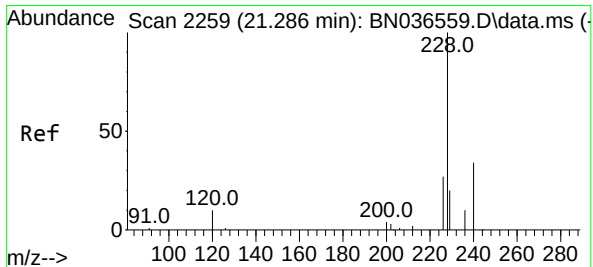
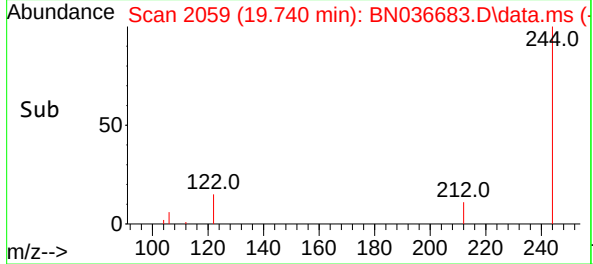
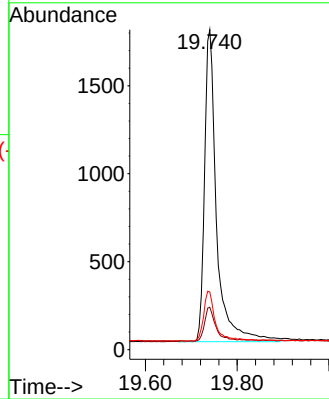
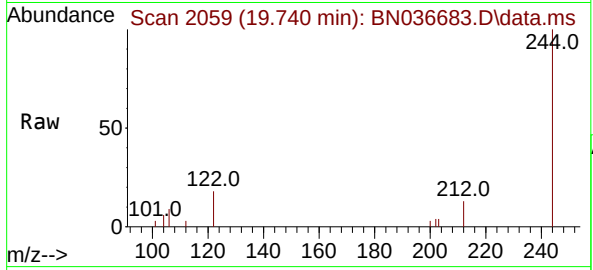




#31
Terphenyl-d14
Concen: 0.348 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

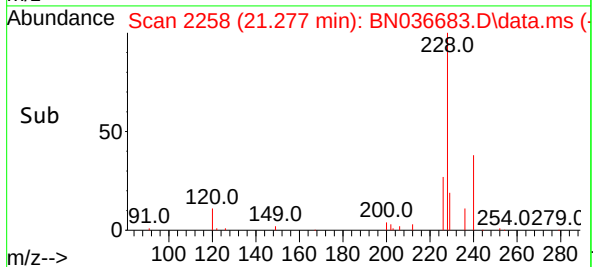
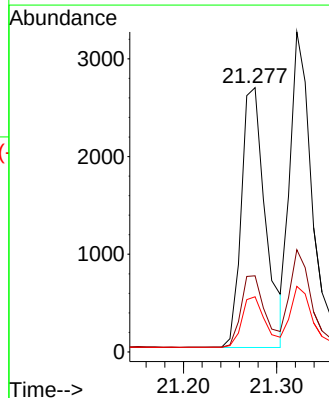
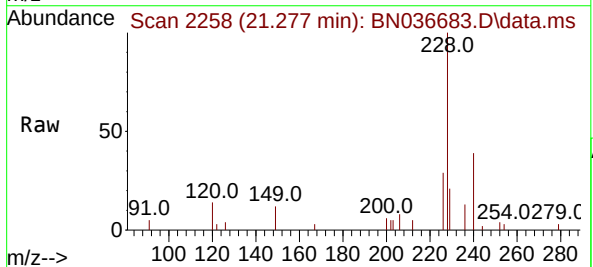
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

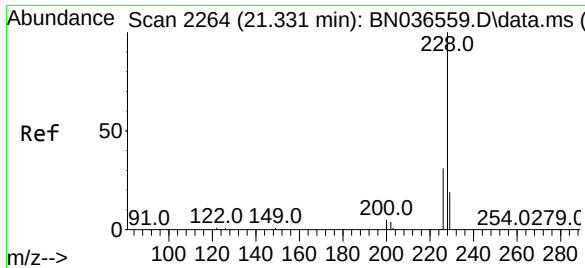
Tgt Ion:244 Resp: 3227
Ion Ratio Lower Upper
244 100
212 13.2 9.6 14.4
122 18.0 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.356 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:228 Resp: 4798
Ion Ratio Lower Upper
228 100
226 28.8 22.5 33.7
229 20.9 16.6 25.0





#33

Chrysene

Concen: 0.378 ng

RT: 21.322 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036683.D

Acq: 18 Mar 2025 09:21

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

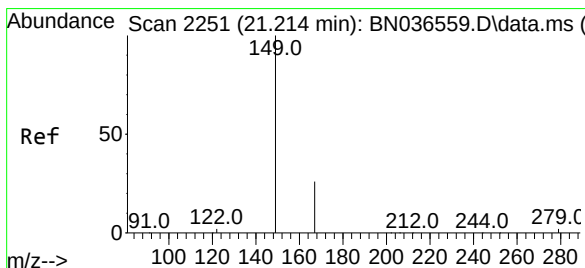
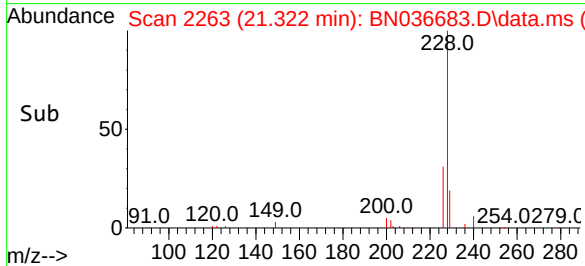
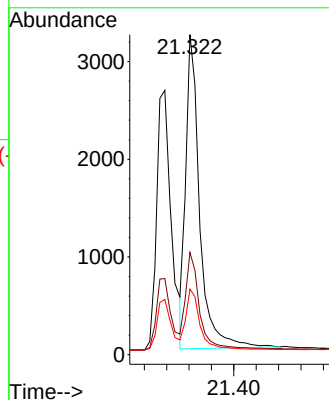
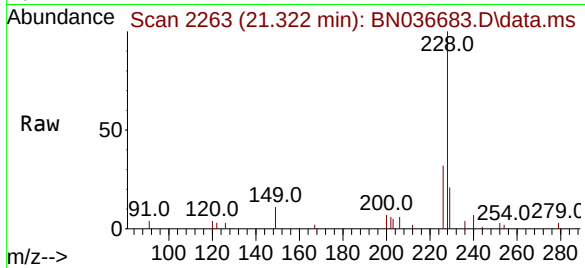
Tgt Ion:228 Resp: 5558

Ion Ratio Lower Upper

228 100

226 31.9 25.3 37.9

229 20.5 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.363 ng

RT: 21.205 min Scan# 2250

Delta R.T. -0.009 min

Lab File: BN036683.D

Acq: 18 Mar 2025 09:21

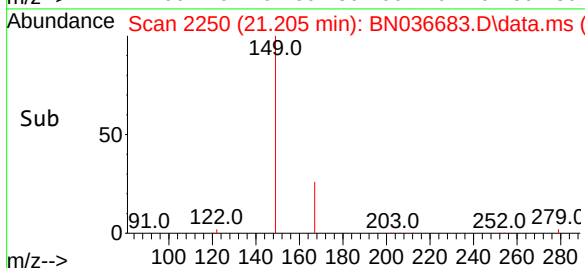
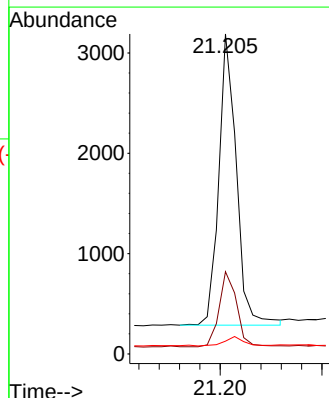
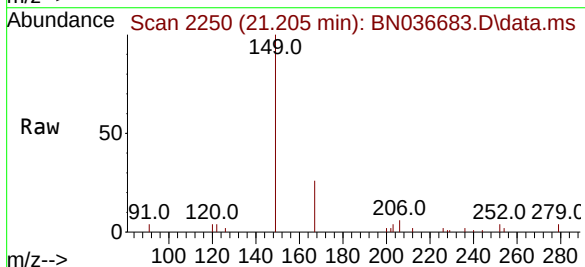
Tgt Ion:149 Resp: 3479

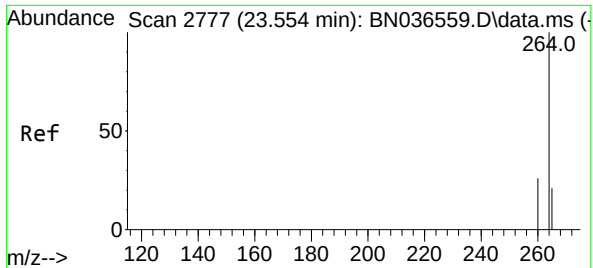
Ion Ratio Lower Upper

149 100

167 26.0 20.7 31.1

279 3.2 3.6 5.4#

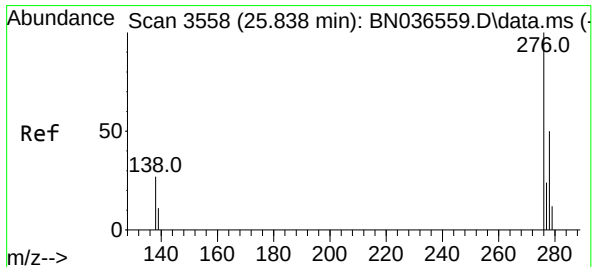
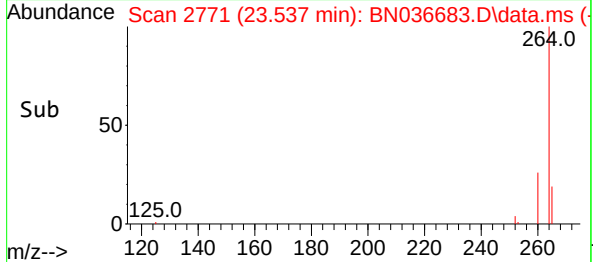
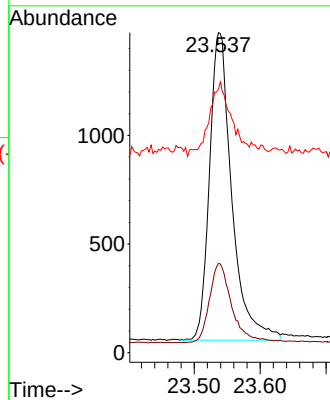
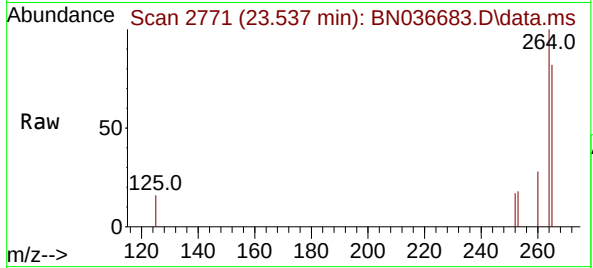




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.537 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

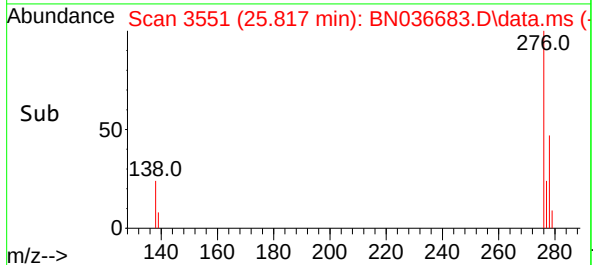
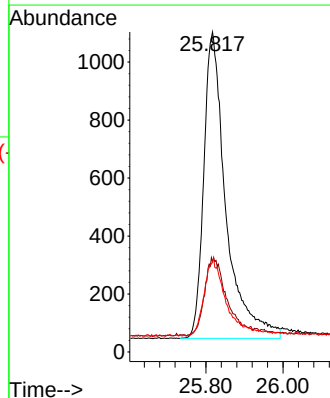
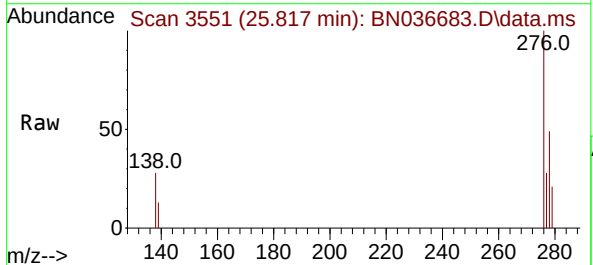
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

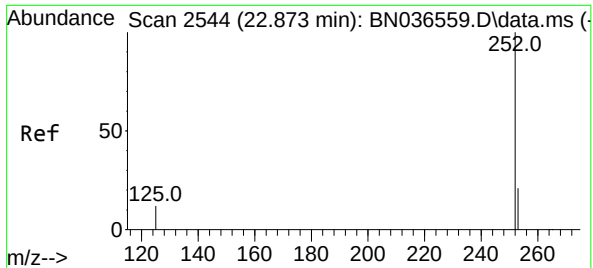
Tgt Ion:264 Resp: 3319
Ion Ratio Lower Upper
264 100
260 27.9 22.6 33.8
265 82.3 88.1 132.1#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.352 ng
RT: 25.817 min Scan# 3551
Delta R.T. -0.020 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:276 Resp: 4216
Ion Ratio Lower Upper
276 100
138 25.2 23.4 35.2
277 23.5 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.373 ng

RT: 22.861 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN036683.D

Acq: 18 Mar 2025 09:21

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

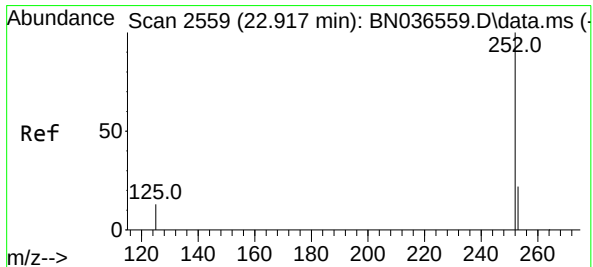
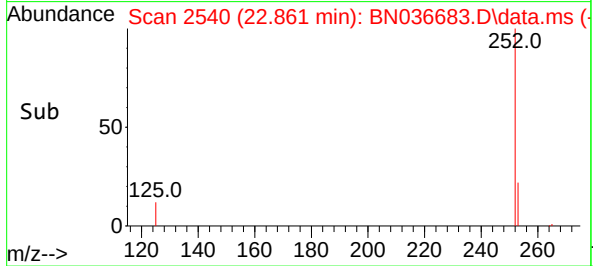
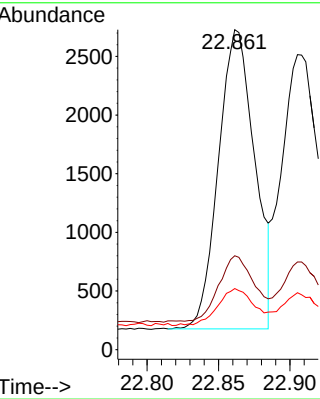
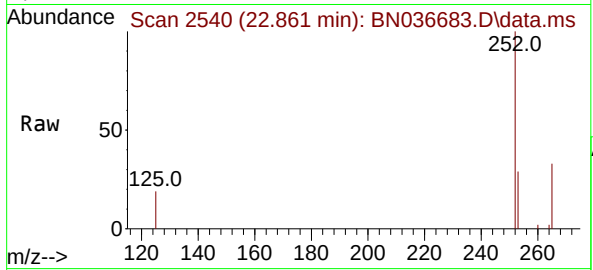
Tgt Ion:252 Resp: 4509

Ion Ratio Lower Upper

252 100

253 29.3 23.9 35.9

125 19.1 17.4 26.2



#38

Benzo(k)fluoranthene

Concen: 0.369 ng

RT: 22.905 min Scan# 2555

Delta R.T. -0.012 min

Lab File: BN036683.D

Acq: 18 Mar 2025 09:21

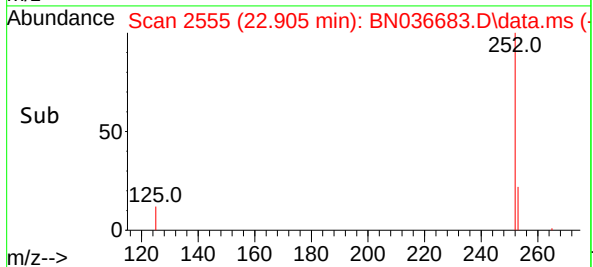
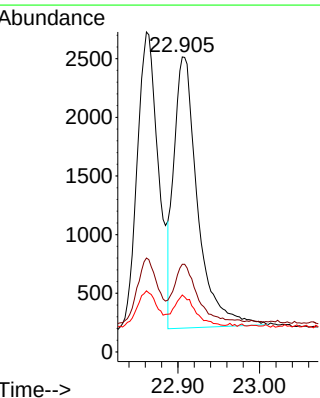
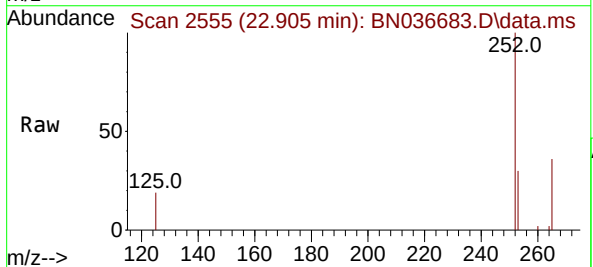
Tgt Ion:252 Resp: 4672

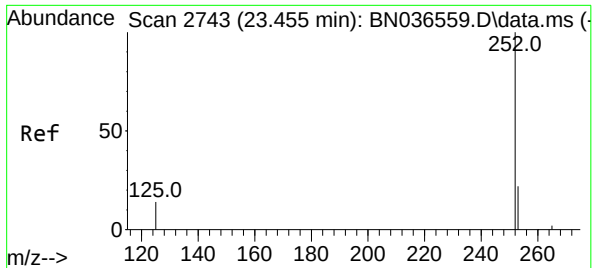
Ion Ratio Lower Upper

252 100

253 29.7 24.6 36.8

125 19.3 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.369 ng

RT: 23.440 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN036683.D

Acq: 18 Mar 2025 09:21

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

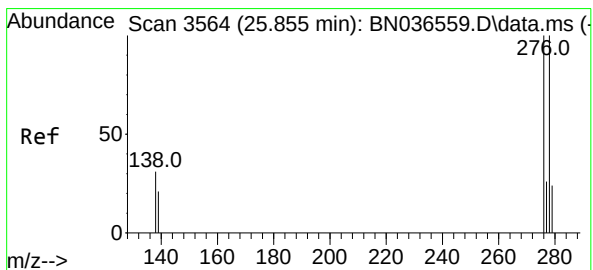
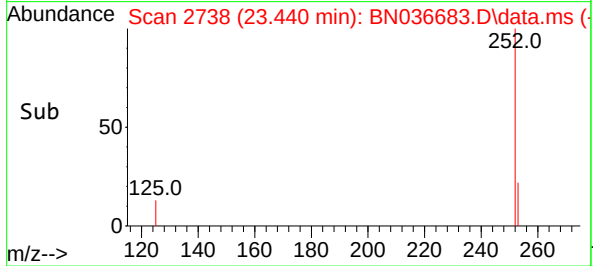
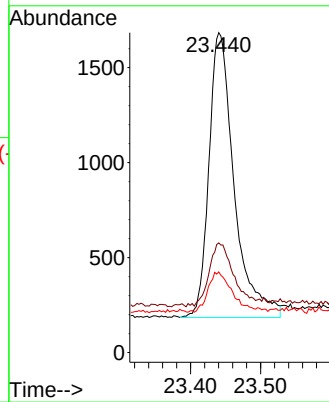
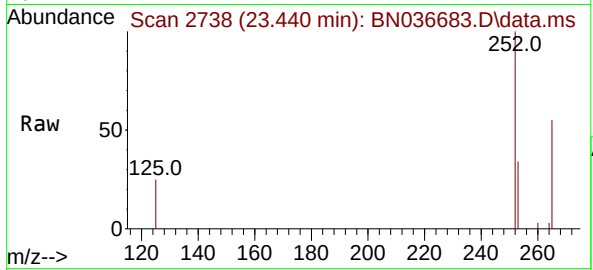
Tgt Ion:252 Resp: 3758

Ion Ratio Lower Upper

252 100

253 34.3 27.8 41.8

125 25.2 22.7 34.1



#40

Dibenzo(a,h)anthracene

Concen: 0.336 ng

RT: 25.838 min Scan# 3558

Delta R.T. -0.018 min

Lab File: BN036683.D

Acq: 18 Mar 2025 09:21

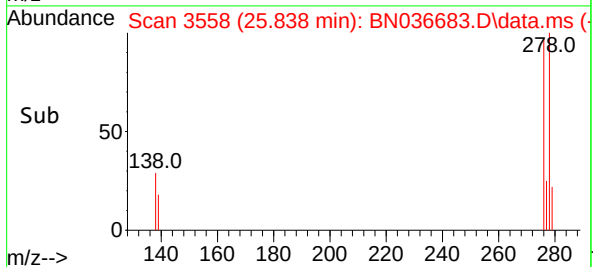
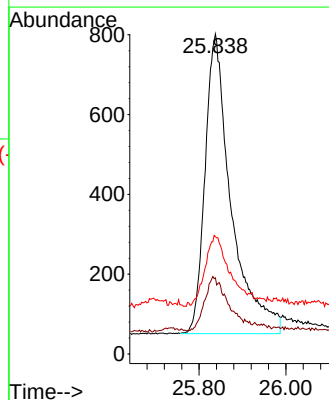
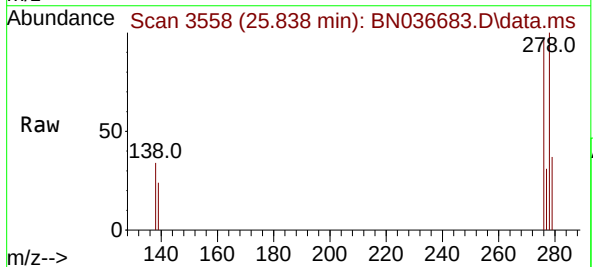
Tgt Ion:278 Resp: 3134

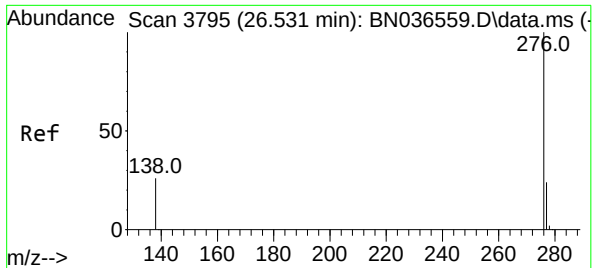
Ion Ratio Lower Upper

278 100

139 23.8 20.8 31.2

279 36.7 28.8 43.2





#41

Benzo(g,h,i)perylene

Concen: 0.358 ng

RT: 26.513 min Scan# 31

Delta R.T. -0.018 min

Lab File: BN036683.D

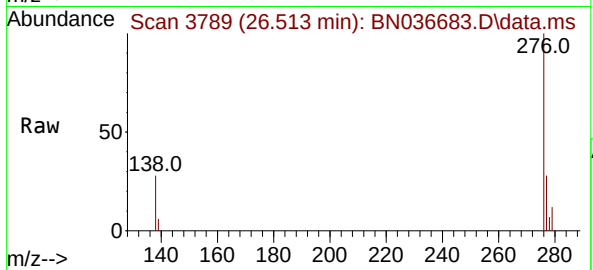
Acq: 18 Mar 2025 09:21

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



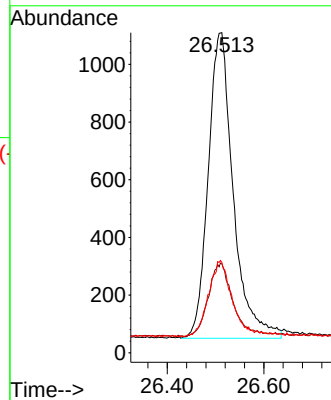
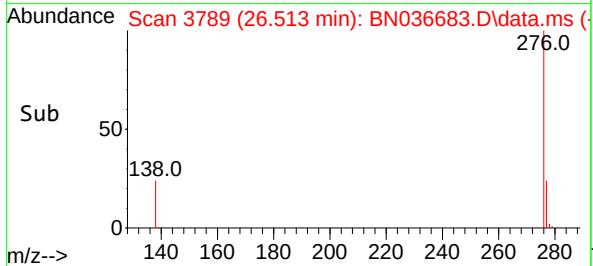
Tgt Ion:276 Resp: 3819

Ion Ratio Lower Upper

276 100

277 27.7 22.2 33.4

138 28.2 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
Data File : BN036683.D
Acq On : 18 Mar 2025 09:21
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 18 10:42:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	82	-0.01
2	1,4-Dioxane	0.444	0.465	-4.7	77	0.00
3	n-Nitrosodimethylamine	0.898	0.896	0.2	79	0.00
4 S	2-Fluorophenol	0.932	0.812	12.9	68	0.00
5 S	Phenol-d6	1.152	1.004	12.8	73	-0.01
6	bis(2-Chloroethyl)ether	1.190	0.984	17.3	69	-0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	89	-0.01
8 S	Nitrobenzene-d5	0.435	0.380	12.6	81	-0.01
9	Naphthalene	1.177	1.055	10.4	78	-0.01
10	Hexachlorobutadiene	0.277	0.249	10.1	75	-0.01
11 SURR	2-Methylnaphthalene-d10	0.595	0.523	12.1	77	-0.02
12	2-Methylnaphthalene	0.749	0.663	11.5	77	-0.01
13 I	Acenaphthene-d10	1.000	1.000	0.0	87	-0.01
14 S	2,4,6-Tribromophenol	0.182	0.172	5.5	80	-0.01
15 S	2-Fluorobiphenyl	2.327	2.136	8.2	78	-0.01
16	Acenaphthylene	1.888	1.723	8.7	78	-0.01
17	Acenaphthene	1.236	1.124	9.1	77	-0.02
18	Fluorene	1.672	1.554	7.1	77	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	88	-0.01
20	4,6-Dinitro-2-methylphenol	0.086	0.063	26.7#	72	0.00
21	4-Bromophenyl-phenylether	0.251	0.238	5.2	76	0.00
22	Hexachlorobenzene	0.303	0.278	8.3	73	-0.01
23	Atrazine	0.201	0.185	8.0	76	0.00
24	Pentachlorophenol	0.138	0.122	11.6	78	-0.01
25	Phenanthrene	1.200	1.147	4.4	78	-0.01
26	Anthracene	1.083	1.030	4.9	79	-0.01
27 SURR	Fluoranthene-d10	1.025	0.969	5.5	76	0.00
28	Fluoranthene	1.348	1.309	2.9	79	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	94	0.00
30	Pyrene	1.956	1.750	10.5	77	0.00
31 S	Terphenyl-d14	0.958	0.834	12.9	76	0.00
32	Benzo(a)anthracene	1.391	1.239	10.9	81	0.00
33	Chrysene	1.520	1.436	5.5	84	0.00
34	Bis(2-ethylhexyl)phthalate	0.990	0.899	9.2	81	0.00
35 I	Perylene-d12	1.000	1.000	0.0	94	-0.02
36	Indeno(1,2,3-cd)pyrene	1.444	1.270	12.0	77	-0.02
37	Benzo(b)fluoranthene	1.456	1.359	6.7	82	-0.01
38	Benzo(k)fluoranthene	1.527	1.408	7.8	82	-0.01
39 C	Benzo(a)pyrene	1.226	1.132	7.7	81	-0.01
40	Dibenzo(a,h)anthracene	1.124	0.944	16.0	76	-0.02
41	Benzo(g,h,i)perylene	1.286	1.151	10.5	78	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
Data File : BN036683.D
Acq On : 18 Mar 2025 09:21
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 18 10:42:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	82	-0.01
2	1,4-Dioxane	0.400	0.419	-4.7	77	0.00
3	n-Nitrosodimethylamine	0.400	0.399	0.3	79	0.00
4 S	2-Fluorophenol	0.400	0.348	13.0	68	0.00
5 S	Phenol-d6	0.400	0.349	12.8	73	-0.01
6	bis(2-Chloroethyl)ether	0.400	0.330	17.5	69	-0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	89	-0.01
8 S	Nitrobenzene-d5	0.400	0.349	12.8	81	-0.01
9	Naphthalene	0.400	0.359	10.3	78	-0.01
10	Hexachlorobutadiene	0.400	0.359	10.3	75	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.352	12.0	77	-0.02
12	2-Methylnaphthalene	0.400	0.354	11.5	77	-0.01
13 I	Acenaphthene-d10	0.400	0.400	0.0	87	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.378	5.5	80	-0.01
15 S	2-Fluorobiphenyl	0.400	0.367	8.3	78	-0.01
16	Acenaphthylene	0.400	0.365	8.8	78	-0.01
17	Acenaphthene	0.400	0.364	9.0	77	-0.02
18	Fluorene	0.400	0.372	7.0	77	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	88	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.394	1.5	72	0.00
21	4-Bromophenyl-phenylether	0.400	0.380	5.0	76	0.00
22	Hexachlorobenzene	0.400	0.368	8.0	73	-0.01
23	Atrazine	0.400	0.369	7.8	76	0.00
24	Pentachlorophenol	0.400	0.354	11.5	78	-0.01
25	Phenanthrene	0.400	0.382	4.5	78	-0.01
26	Anthracene	0.400	0.381	4.8	79	-0.01
27 SURR	Fluoranthene-d10	0.400	0.378	5.5	76	0.00
28	Fluoranthene	0.400	0.388	3.0	79	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	94	0.00
30	Pyrene	0.400	0.358	10.5	77	0.00
31 S	Terphenyl-d14	0.400	0.348	13.0	76	0.00
32	Benzo(a)anthracene	0.400	0.356	11.0	81	0.00
33	Chrysene	0.400	0.378	5.5	84	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.363	9.3	81	0.00
35 I	Perylene-d12	0.400	0.400	0.0	94	-0.02
36	Indeno(1,2,3-cd)pyrene	0.400	0.352	12.0	77	-0.02
37	Benzo(b)fluoranthene	0.400	0.373	6.8	82	-0.01
38	Benzo(k)fluoranthene	0.400	0.369	7.8	82	-0.01
39 C	Benzo(a)pyrene	0.400	0.369	7.8	81	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.336	16.0	76	-0.02
41	Benzo(g,h,i)perylene	0.400	0.358	10.5	78	-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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG No.: Q1582

Instrument ID: BNA_N Calibration Date/Time: 03/18/2025 12:35

Lab File ID: BN036687.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.532		-10.6	50.0
Fluoranthene-d10	1.025	0.964		-6.0	50.0
2-Fluorophenol	0.932	0.829		-11.1	50.0
Phenol-d6	1.152	1.015		-11.9	50.0
Nitrobenzene-d5	0.435	0.372		-14.5	50.0
2-Fluorobiphenyl	2.327	2.097		-9.9	50.0
2,4,6-Tribromophenol	0.182	0.166		-8.8	50.0
Terphenyl-d14	0.958	0.858		-10.4	50.0
1,4-Dioxane	0.444	0.434		-2.3	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
 Data File : BN036687.D
 Acq On : 18 Mar 2025 12:35
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Mar 18 12:58:38 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

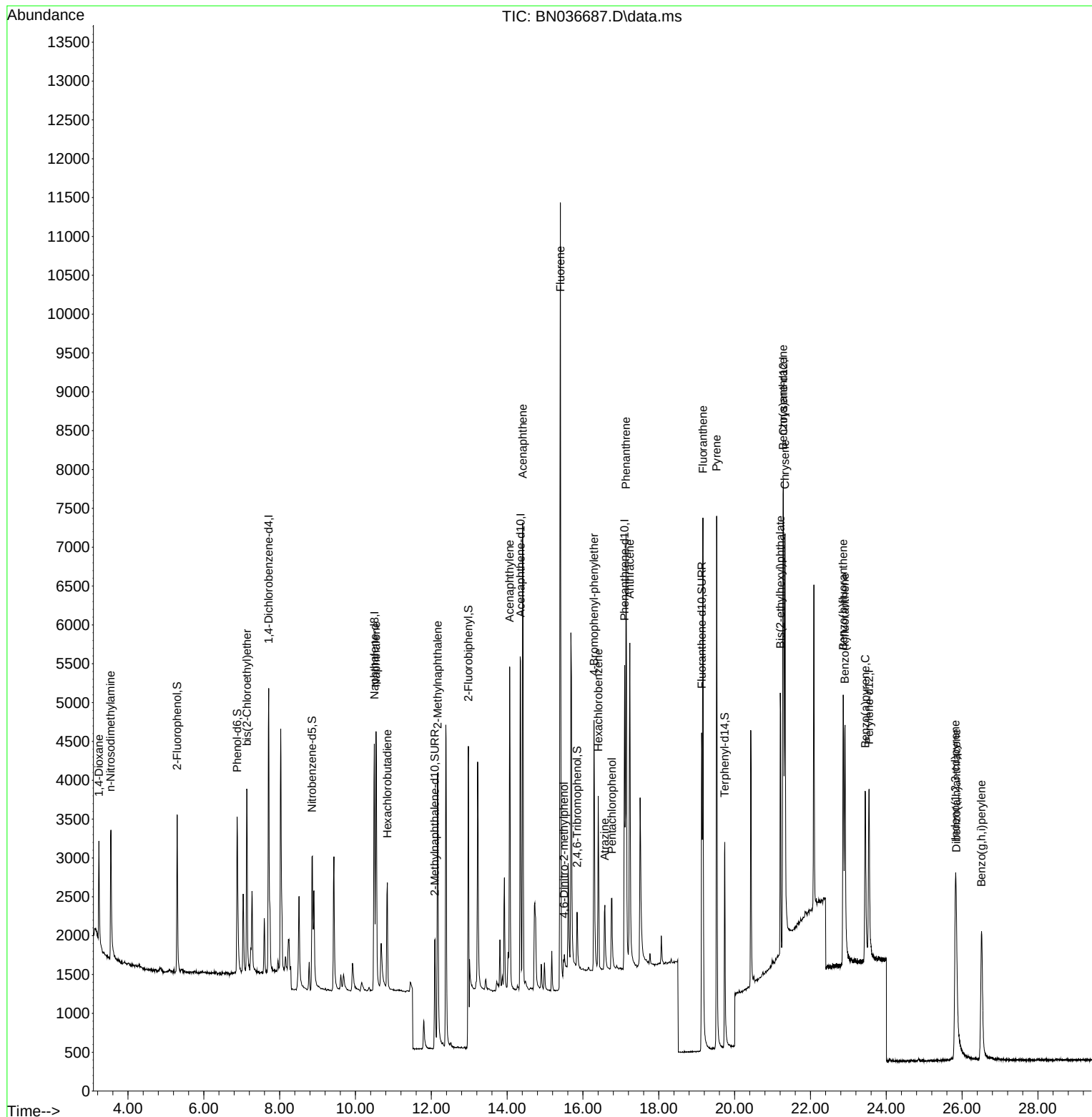
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	1764	0.400	ng	-0.01
7) Naphthalene-d8	10.498	136	4529	0.400	ng	-0.01
13) Acenaphthene-d10	14.356	164	2699	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	5496	0.400	ng	-0.01
29) Chrysene-d12	21.286	240	3915	0.400	ng	0.00
35) Perylene-d12	23.546	264	3408	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.298	112	1463	0.356	ng	-0.01
5) Phenol-d6	6.879	99	1790	0.352	ng	-0.02
8) Nitrobenzene-d5	8.854	82	1684	0.342	ng	-0.02
11) 2-Methylnaphthalene-d10	12.091	152	2408	0.357	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	449	0.367	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	5661	0.361	ng	0.00
27) Fluoranthene-d10	19.132	212	5300	0.376	ng	0.00
31) Terphenyl-d14	19.740	244	3360	0.358	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.232	88	765	0.391	ng	97
3) n-Nitrosodimethylamine	3.543	42	1615	0.408	ng	# 87
6) bis(2-Chloroethyl)ether	7.139	93	1823	0.347	ng	99
9) Naphthalene	10.541	128	4784	0.359	ng	100
10) Hexachlorobutadiene	10.840	225	1131	0.361	ng	# 98
12) 2-Methylnaphthalene	12.167	142	3104	0.366	ng	98
16) Acenaphthylene	14.067	152	4629	0.363	ng	100
17) Acenaphthene	14.409	154	3057	0.367	ng	100
18) Fluorene	15.403	166	4183	0.371	ng	99
20) 4,6-Dinitro-2-methylph...	15.499	198	352	0.397	ng	91
21) 4-Bromophenyl-phenylether	16.292	248	1305	0.379	ng	93
22) Hexachlorobenzene	16.404	284	1518	0.365	ng	95
23) Atrazine	16.578	200	1028	0.372	ng	94
24) Pentachlorophenol	16.764	266	634	0.334	ng	95
25) Phenanthrene	17.136	178	6196	0.376	ng	99
26) Anthracene	17.235	178	5487	0.369	ng	100
28) Fluoranthene	19.164	202	7032	0.380	ng	99
30) Pyrene	19.527	202	7070	0.369	ng	100
32) Benzo(a)anthracene	21.277	228	4732	0.348	ng	99
33) Chrysene	21.331	228	5693	0.383	ng	98
34) Bis(2-ethylhexyl)phtha...	21.205	149	3464	0.357	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.823	276	4254	0.346	ng	97
37) Benzo(b)fluoranthene	22.864	252	4593	0.370	ng	96
38) Benzo(k)fluoranthene	22.908	252	4818	0.370	ng	95
39) Benzo(a)pyrene	23.446	252	3841	0.368	ng	95
40) Dibenzo(a,h)anthracene	25.847	278	3233	0.338	ng	97
41) Benzo(g,h,i)perylene	26.513	276	3822	0.349	ng	97

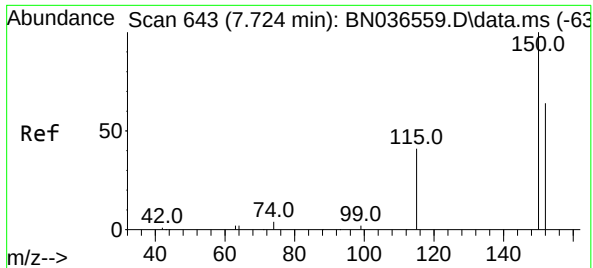
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
Data File : BN036687.D
Acq On : 18 Mar 2025 12:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 18 12:58:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

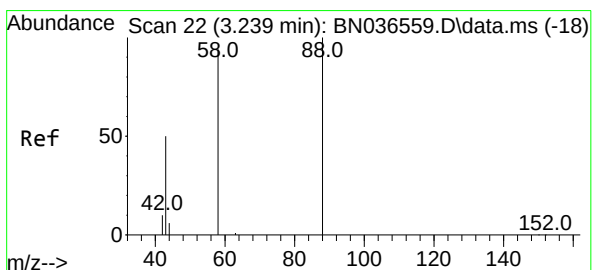
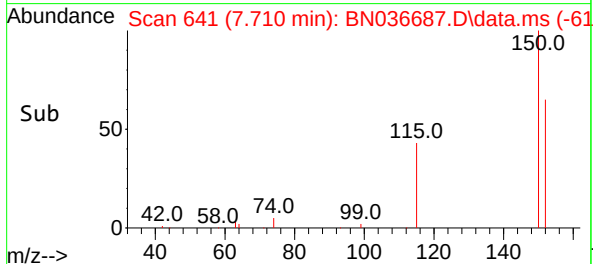
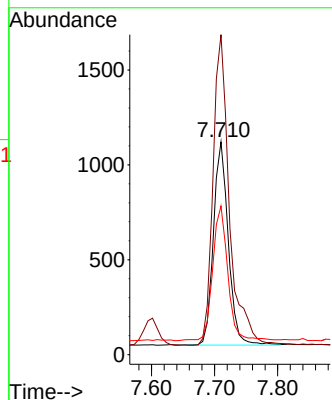
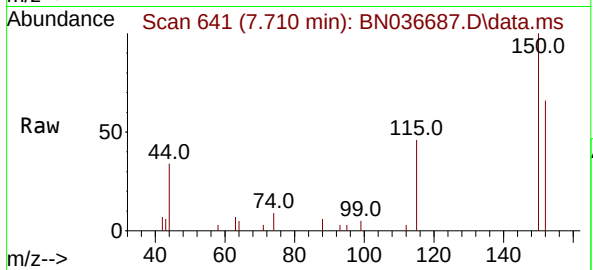




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 64
Delta R.T. -0.014 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

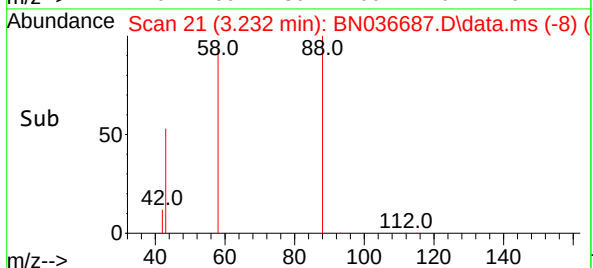
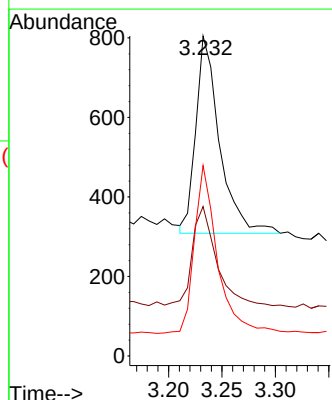
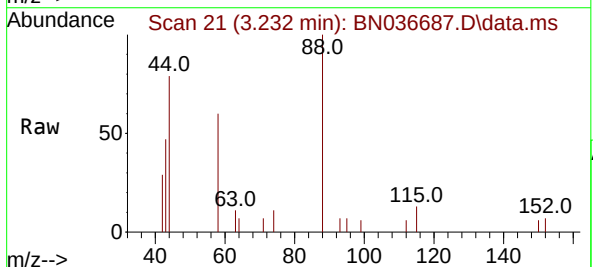
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1764
Ion Ratio Lower Upper
152 100
150 150.4 123.7 185.5
115 69.8 54.3 81.5

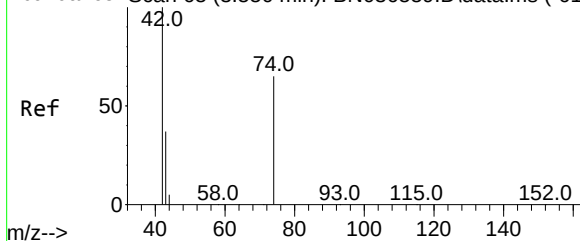


#2
1,4-Dioxane
Concen: 0.391 ng
RT: 3.232 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion: 88 Resp: 765
Ion Ratio Lower Upper
88 100
43 51.4 37.8 56.8
58 82.9 67.4 101.2



Abundance Scan 65 (3.550 min): BN036559.D\data.ms (-61)



#3

n-Nitrosodimethylamine

Concen: 0.408 ng

RT: 3.543 min Scan# 64

Delta R.T. -0.007 min

Lab File: BN036687.D

Acq: 18 Mar 2025 12:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1615

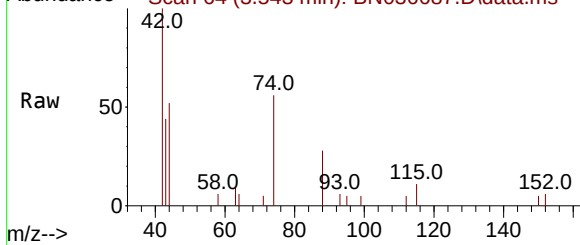
Ion Ratio Lower Upper

42 100

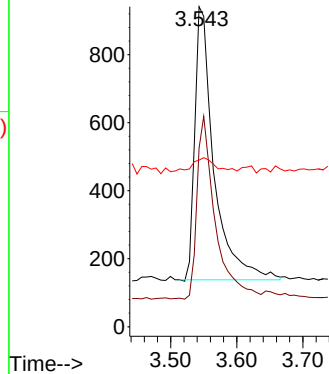
74 63.5 60.6 90.8

44 6.0 6.3 9.5#

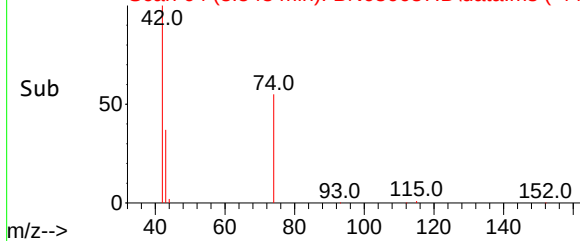
Abundance Scan 64 (3.543 min): BN036687.D\data.ms



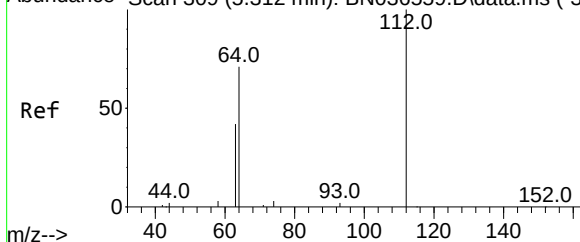
Abundance



Abundance Scan 64 (3.543 min): BN036687.D\data.ms (-44)



Abundance Scan 309 (5.312 min): BN036559.D\data.ms (-30)



#4

2-Fluorophenol

Concen: 0.356 ng

RT: 5.298 min Scan# 307

Delta R.T. -0.014 min

Lab File: BN036687.D

Acq: 18 Mar 2025 12:35

Tgt Ion: 112 Resp: 1463

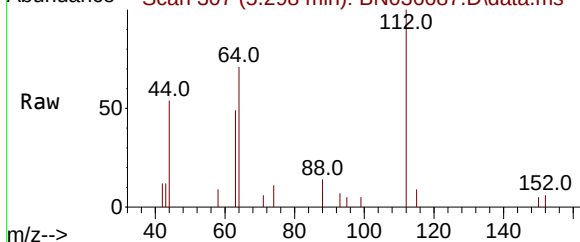
Ion Ratio Lower Upper

112 100

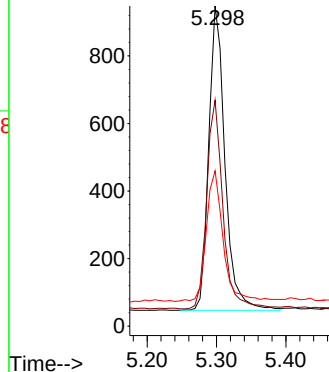
64 68.9 53.1 79.7

63 44.8 31.8 47.8

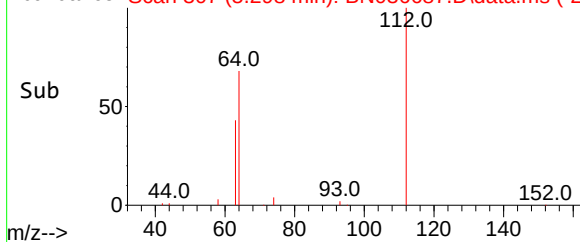
Abundance Scan 307 (5.298 min): BN036687.D\data.ms

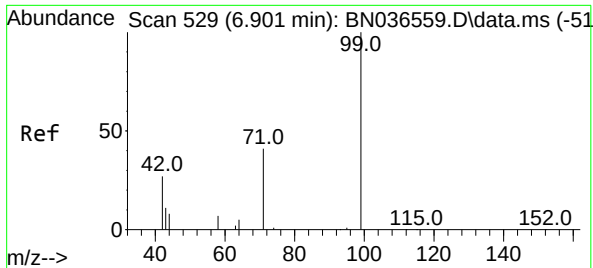


Abundance



Abundance Scan 307 (5.298 min): BN036687.D\data.ms (-28)

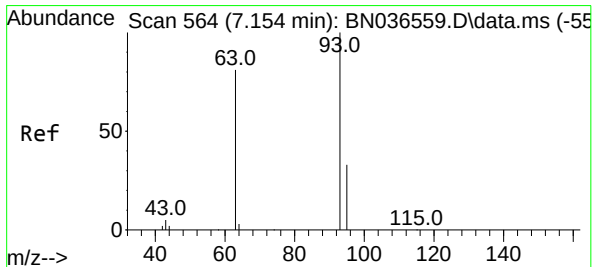
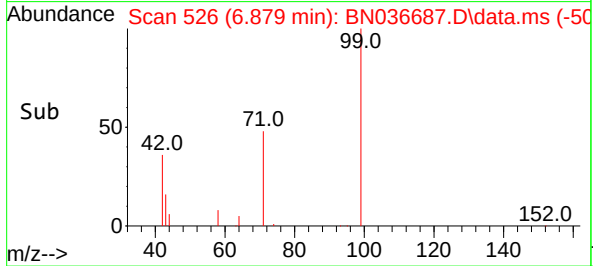
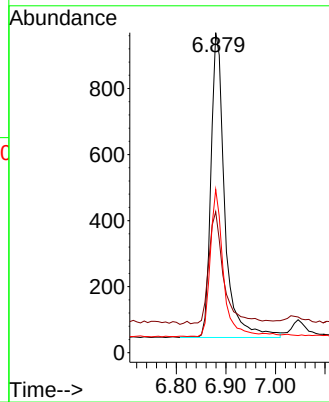
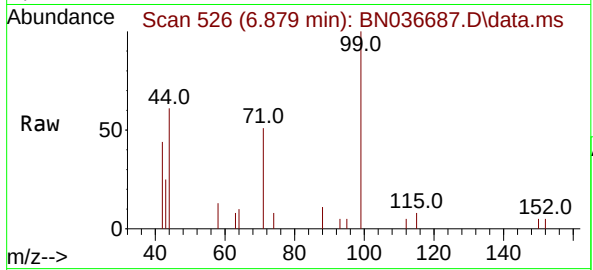




#5
Phenol-d6
Concen: 0.352 ng
RT: 6.879 min Scan# 51
Delta R.T. -0.022 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

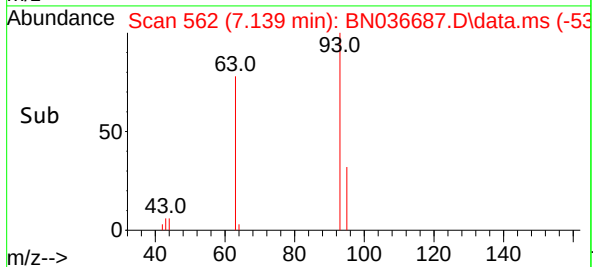
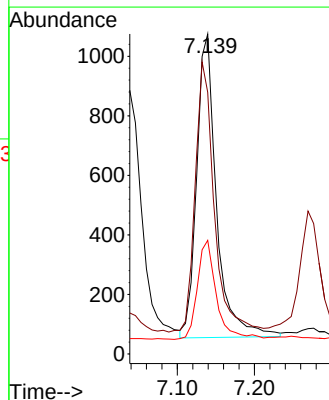
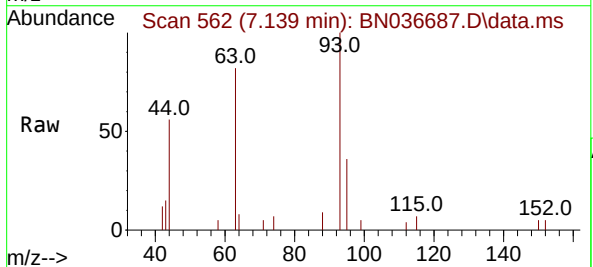
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

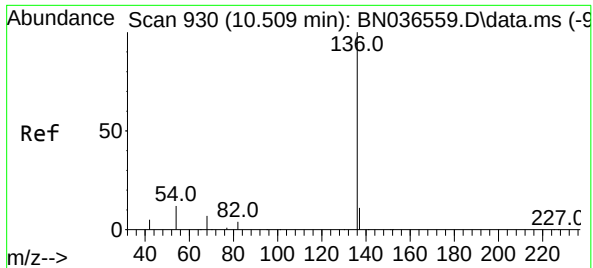
Tgt Ion: 99 Resp: 1790
Ion Ratio Lower Upper
99 100
42 39.8 26.5 39.7#
71 44.7 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.347 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.014 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion: 93 Resp: 1823
Ion Ratio Lower Upper
93 100
63 85.2 67.7 101.5
95 31.6 25.6 38.4

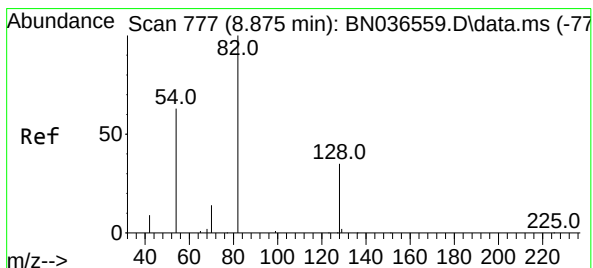
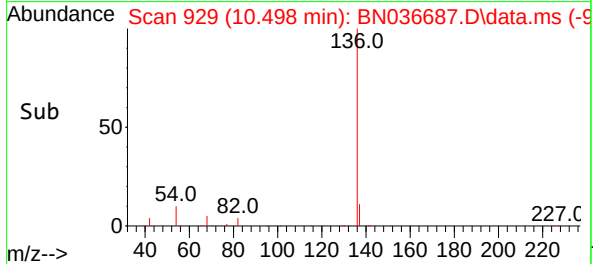
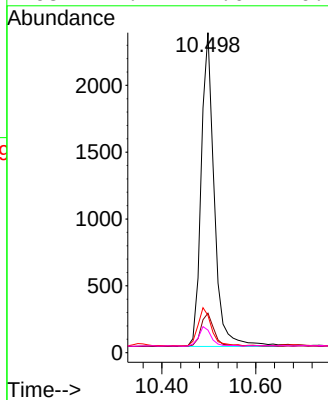
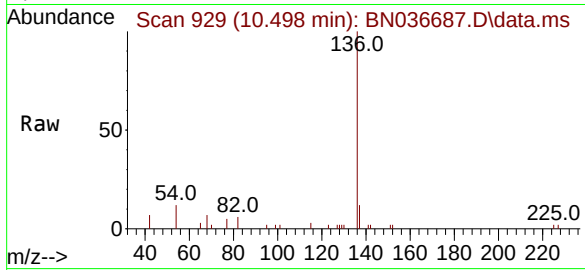




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

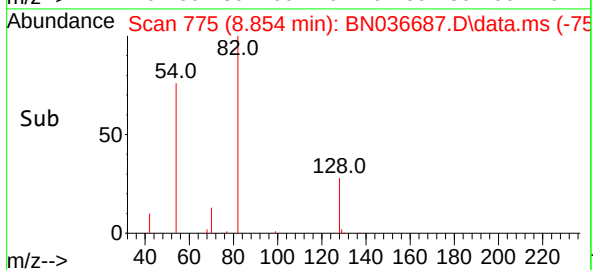
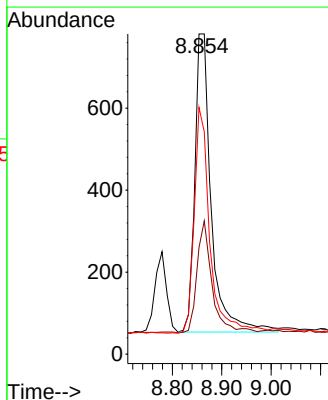
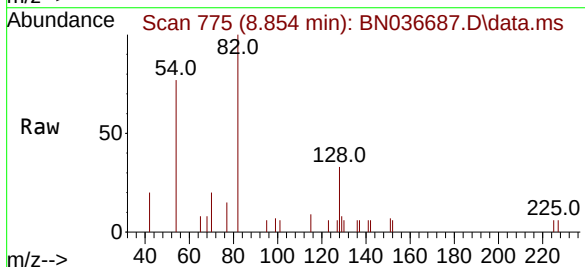
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

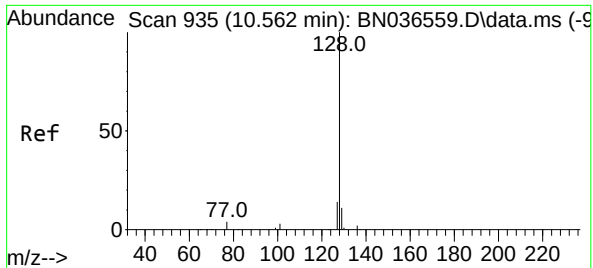
Tgt Ion:	136	Resp:	4529
Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.3	15.5
54	11.7	11.5	17.3
68	7.1	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.342 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:	82	Resp:	1684
Ion	Ratio	Lower	Upper
82	100		
128	33.3	30.6	45.8
54	77.1	52.2	78.4

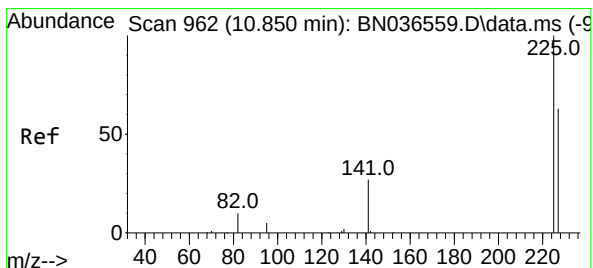
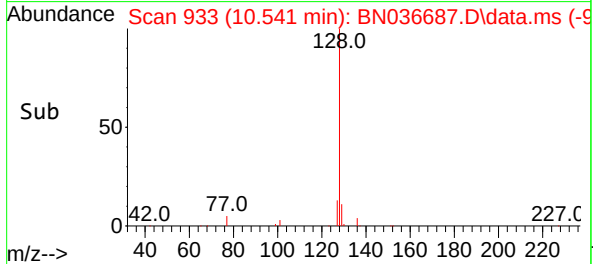
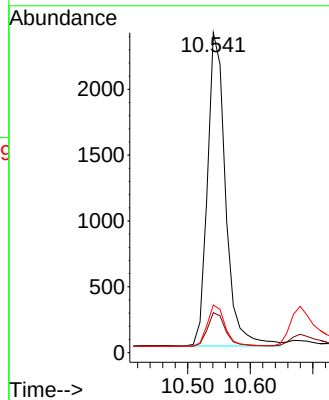
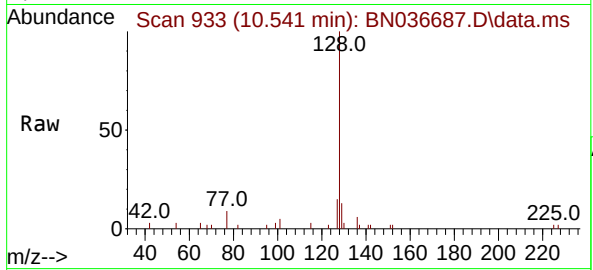




#9
Naphthalene
Concen: 0.359 ng
RT: 10.541 min Scan# 911
Delta R.T. -0.021 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

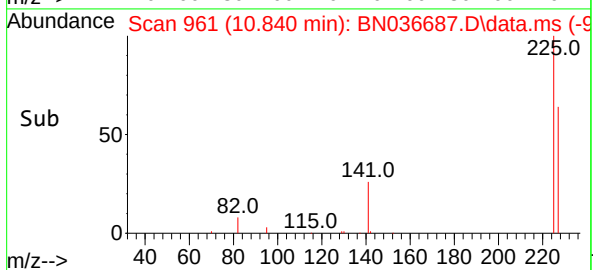
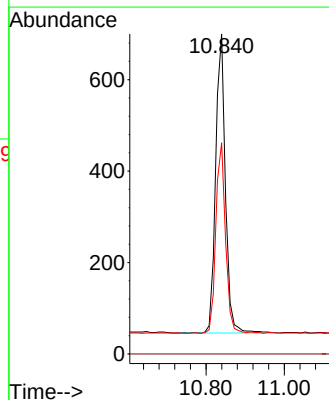
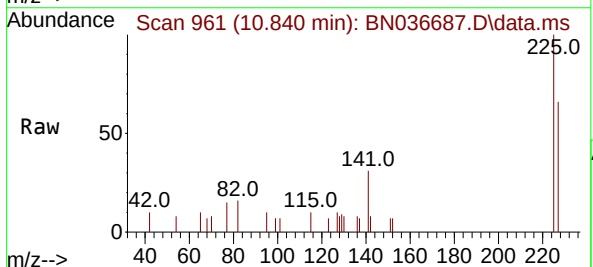
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

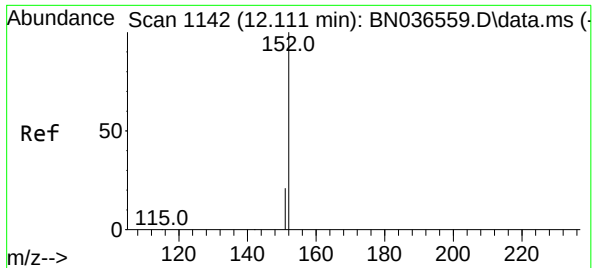
Tgt Ion:	128	Resp:	4784
Ion	Ratio	Lower	Upper
128	100		
129	12.5	9.8	14.6
127	14.9	11.8	17.8



#10
Hexachlorobutadiene
Concen: 0.361 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:	225	Resp:	1131
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	51.8	77.8

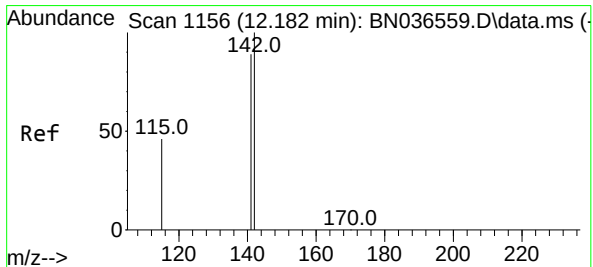
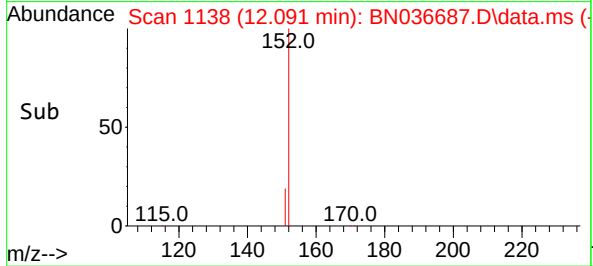
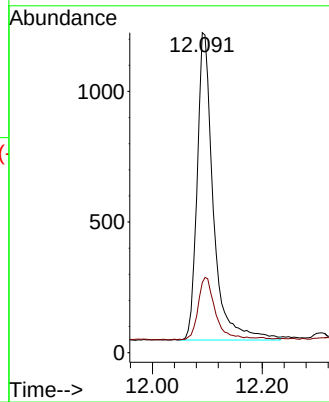
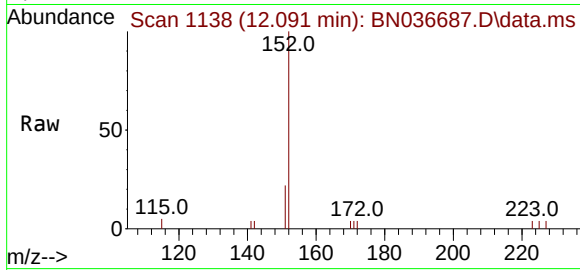




#11
2-Methylnaphthalene-d10
Concen: 0.357 ng
RT: 12.091 min Scan# 1138
Delta R.T. -0.020 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

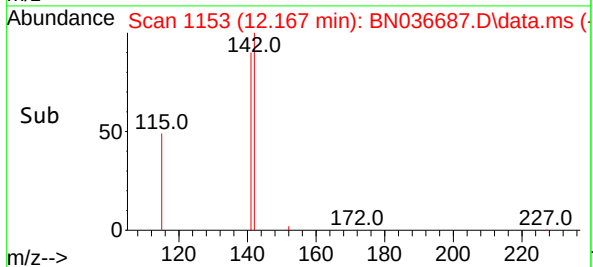
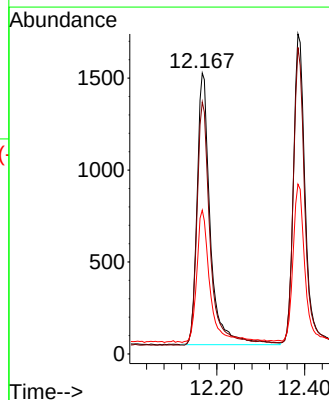
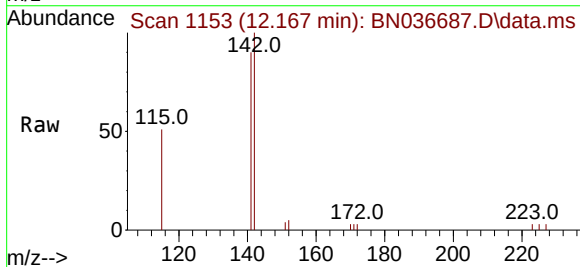
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

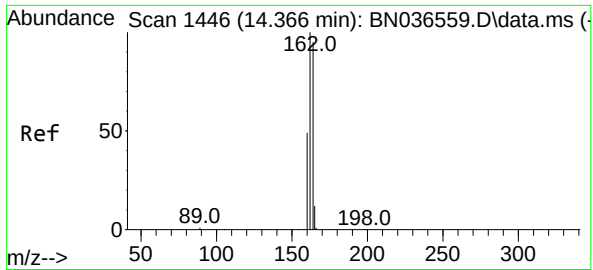
Tgt Ion:152 Resp: 2408
Ion Ratio Lower Upper
152 100
151 21.5 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.366 ng
RT: 12.167 min Scan# 1153
Delta R.T. -0.015 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:142 Resp: 3104
Ion Ratio Lower Upper
142 100
141 89.7 71.7 107.5
115 51.2 38.3 57.5

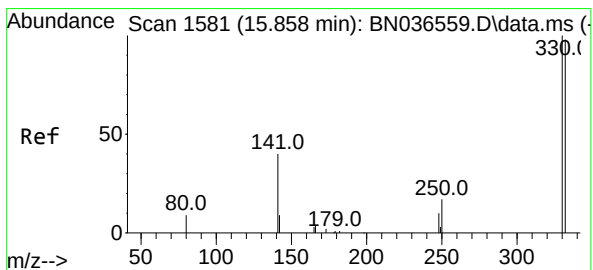
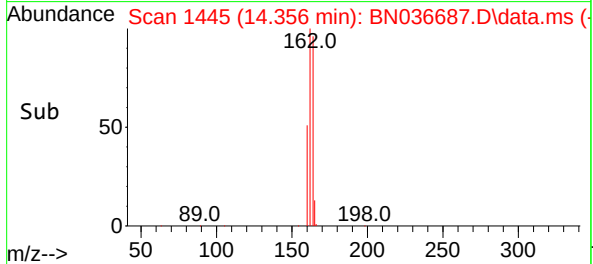
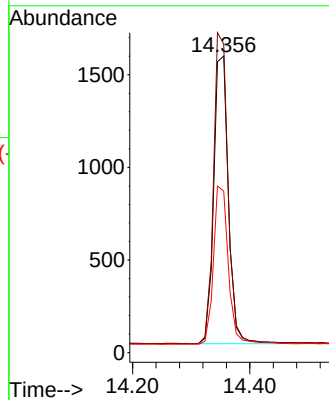
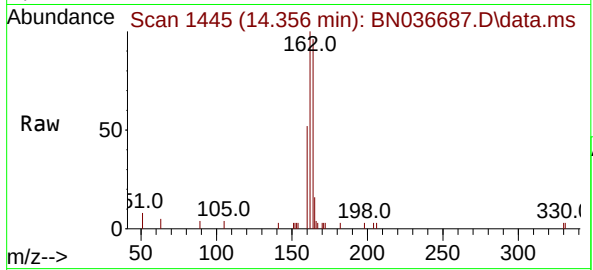




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

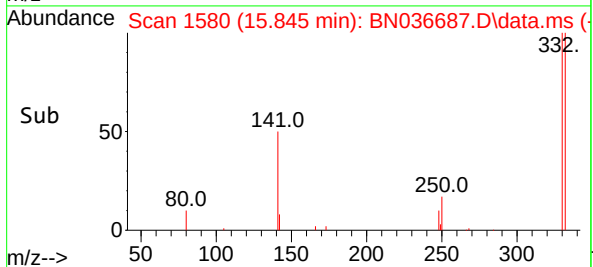
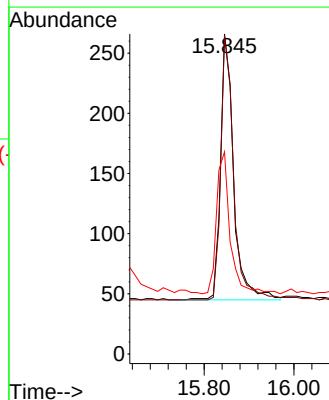
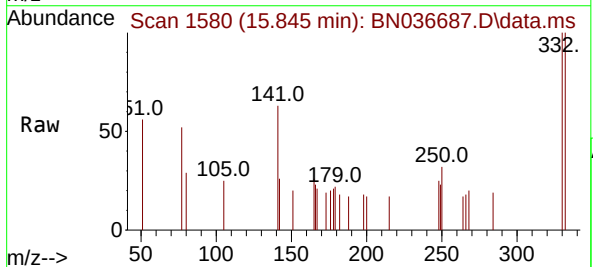
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

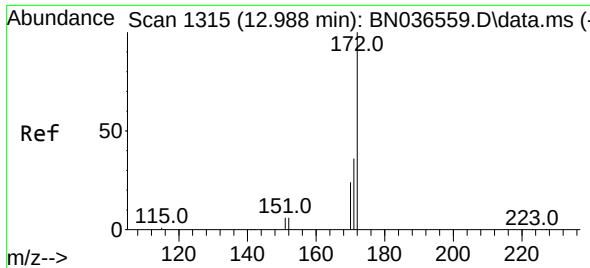
Tgt Ion:164 Resp: 2699
Ion Ratio Lower Upper
164 100
162 104.1 84.2 126.2
160 54.5 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.367 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:330 Resp: 449
Ion Ratio Lower Upper
330 100
332 97.8 75.2 112.8
141 55.0 43.4 65.2

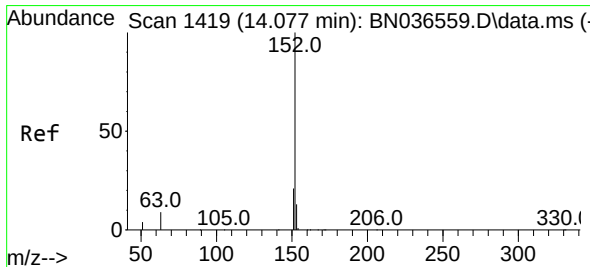
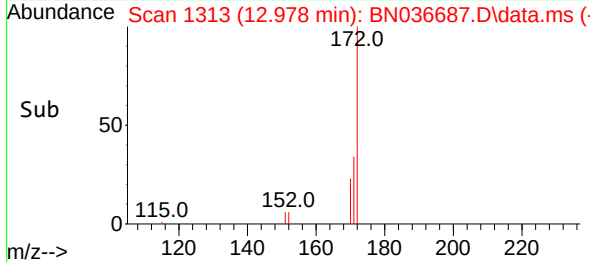
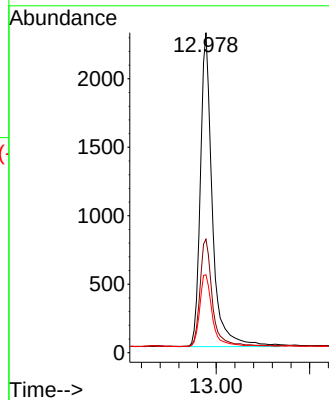
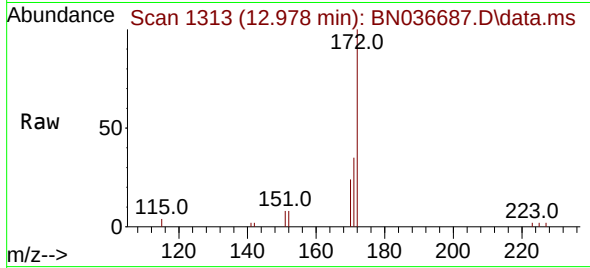




#15
2-Fluorobiphenyl
Concen: 0.361 ng
RT: 12.978 min Scan# 1315
Delta R.T. -0.010 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

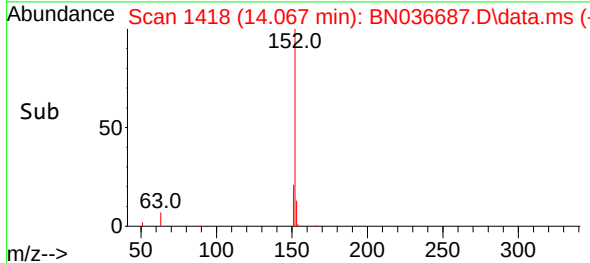
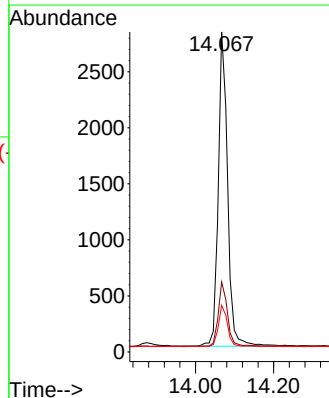
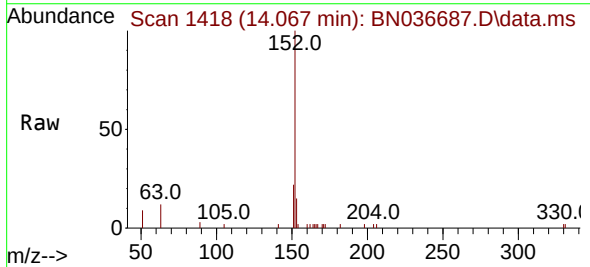
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

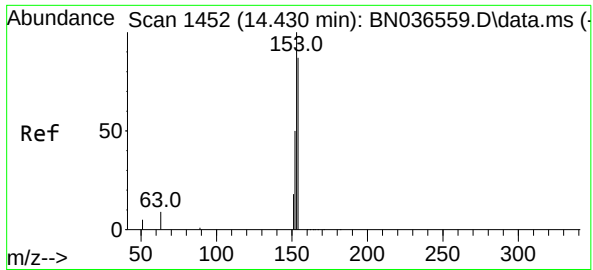
Tgt Ion:	172	Resp:	5661
Ion Ratio	Lower	Upper	
172	100		
171	35.5	29.5	44.3
170	24.3	20.2	30.4



#16
Acenaphthylene
Concen: 0.363 ng
RT: 14.067 min Scan# 1418
Delta R.T. -0.011 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:	152	Resp:	4629
Ion Ratio	Lower	Upper	
152	100		
151	20.0	16.2	24.4
153	13.3	10.6	15.8

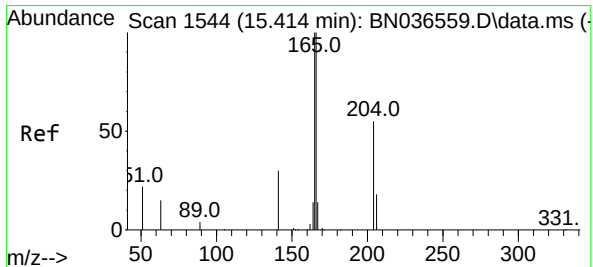
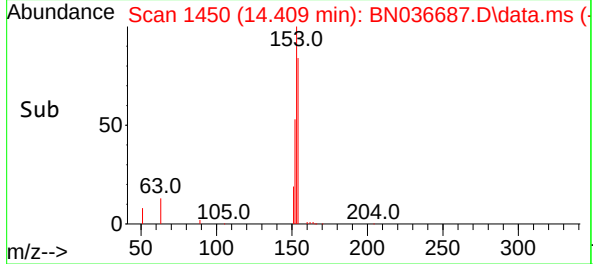
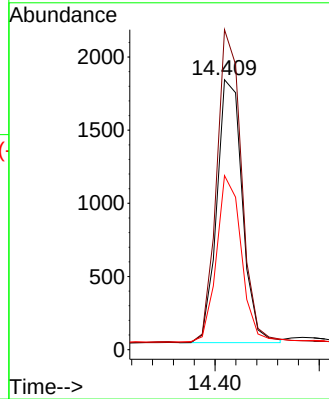
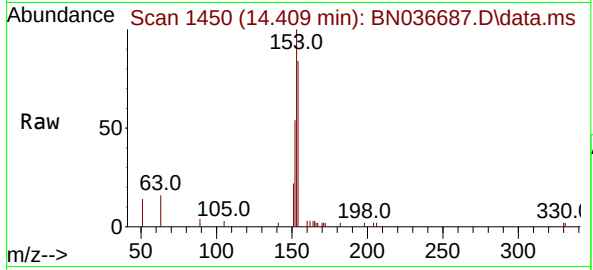




#17
Acenaphthene
Concen: 0.367 ng
RT: 14.409 min Scan# 1450
Delta R.T. -0.021 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

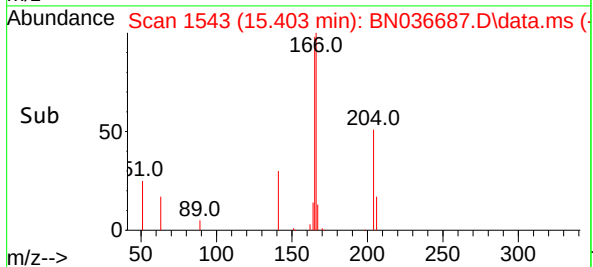
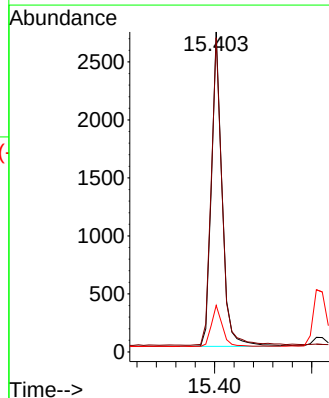
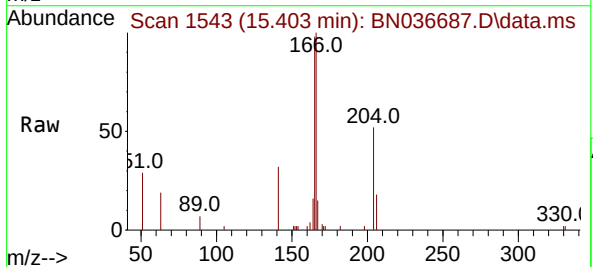
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

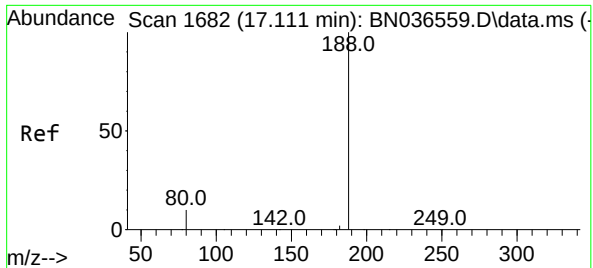
Tgt Ion:154 Resp: 3057
Ion Ratio Lower Upper
154 100
153 117.5 94.1 141.1
152 62.2 49.8 74.6



#18
Fluorene
Concen: 0.371 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.011 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:166 Resp: 4183
Ion Ratio Lower Upper
166 100
165 100.6 79.8 119.8
167 13.2 10.6 15.8

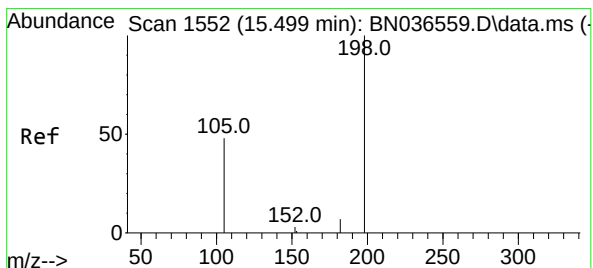
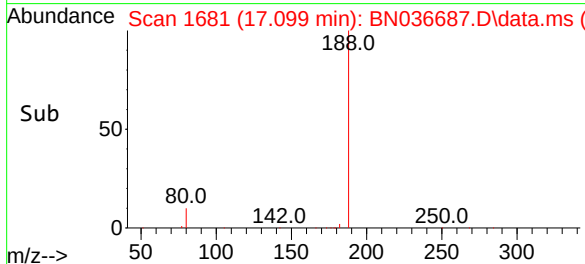
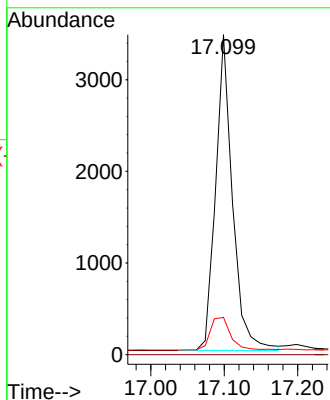
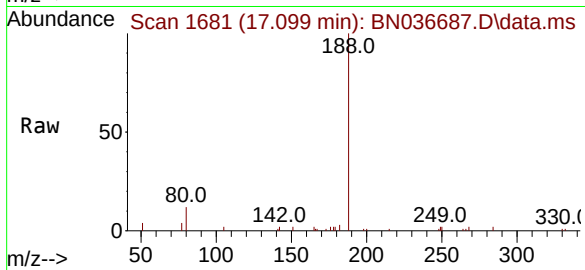




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

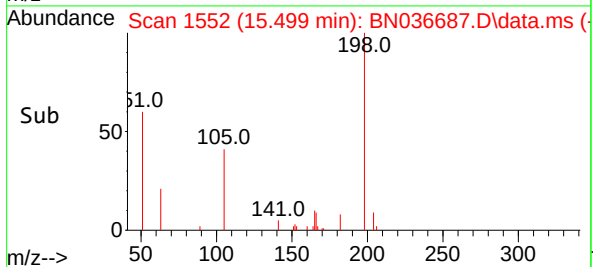
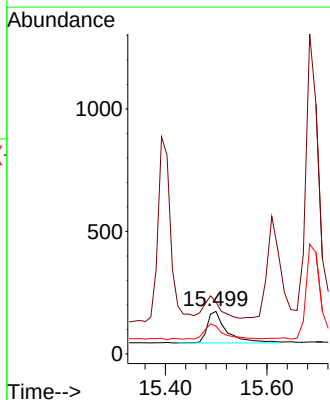
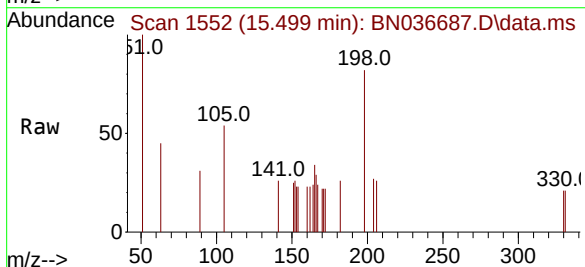
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

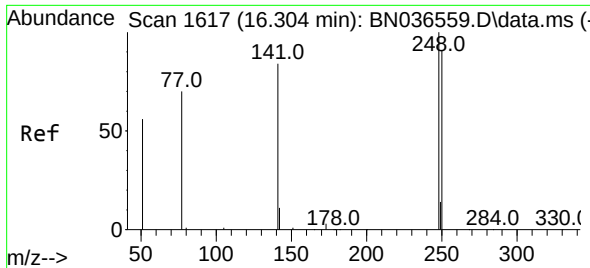
Tgt Ion:188 Resp: 5496
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.6 8.8 13.2



#20
4,6-Dinitro-2-methylphenol
Concen: 0.397 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:198 Resp: 352
Ion Ratio Lower Upper
198 100
51 122.4 107.9 161.9
105 65.5 56.2 84.2

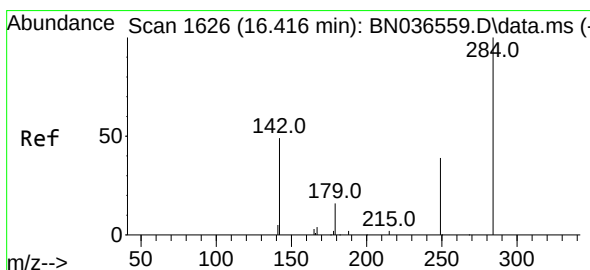
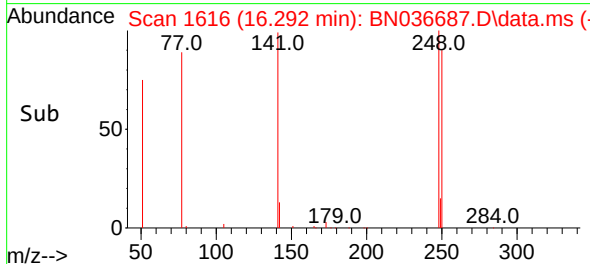
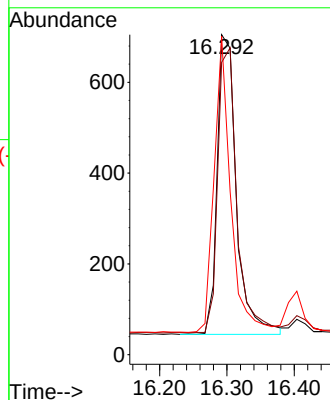
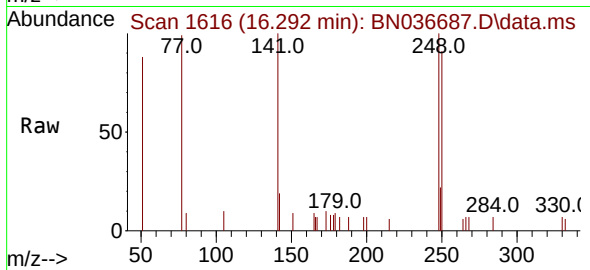




#21
4-Bromophenyl-phenylether
Concen: 0.379 ng
RT: 16.292 min Scan# 1616
Delta R.T. -0.012 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

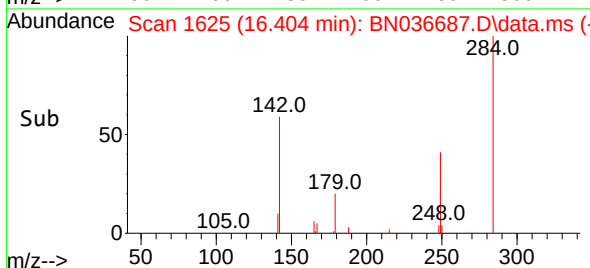
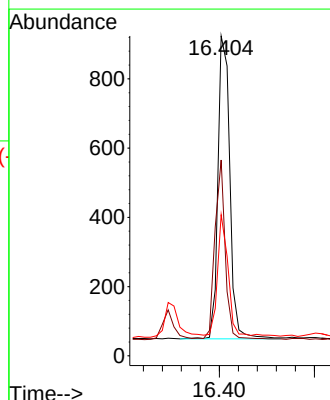
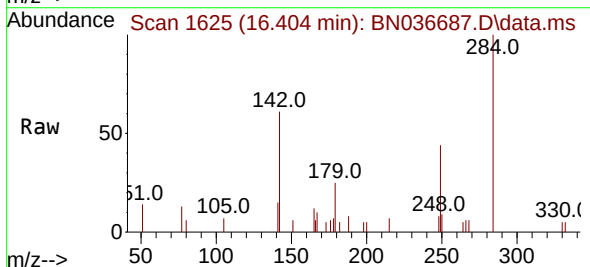
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

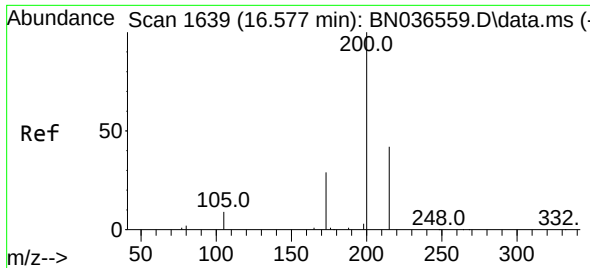
Tgt Ion:248 Resp: 1305
Ion Ratio Lower Upper
248 100
250 91.3 73.0 109.6
141 99.6 68.6 103.0



#22
Hexachlorobenzene
Concen: 0.365 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.012 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:284 Resp: 1518
Ion Ratio Lower Upper
284 100
142 51.8 37.0 55.4
249 34.8 28.1 42.1

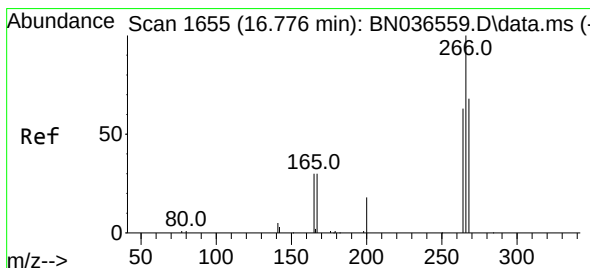
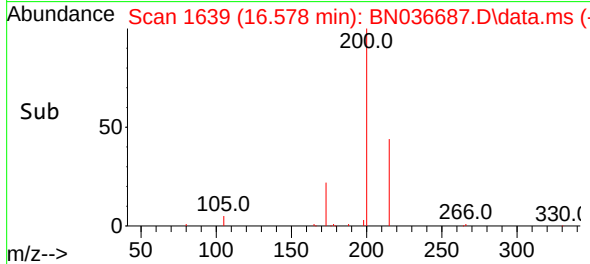
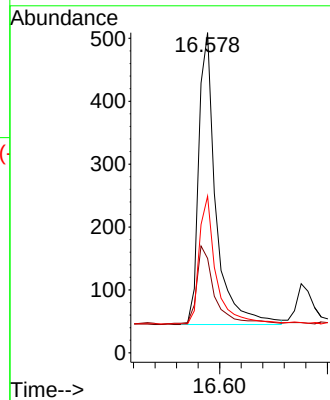
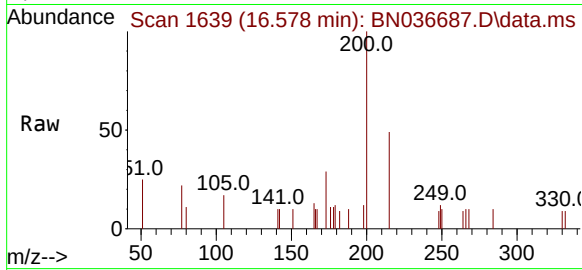




#23
Atrazine
Concen: 0.372 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

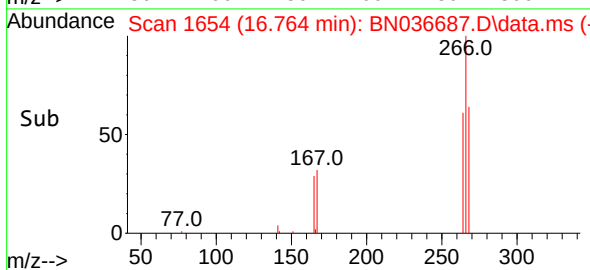
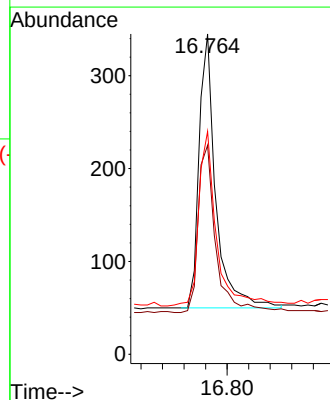
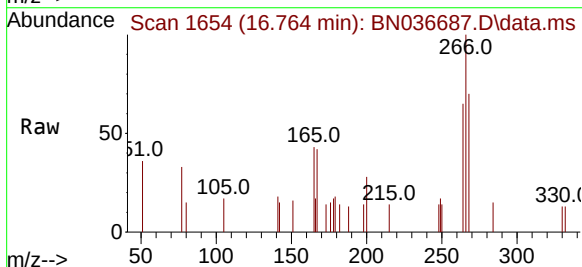
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

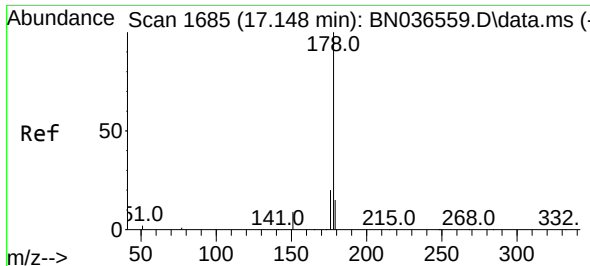
Tgt Ion	Ratio	Lower	Upper
200	100		
173	29.5	27.3	40.9
215	48.9	36.8	55.2



#24
Pentachlorophenol
Concen: 0.334 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion	Ratio	Lower	Upper
266	100		
264	65.1	49.6	74.4
268	68.3	50.9	76.3

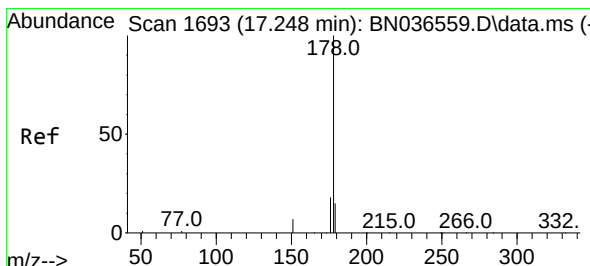
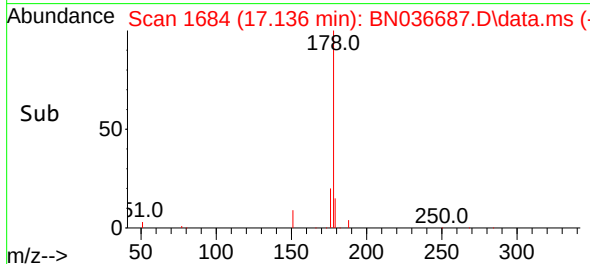
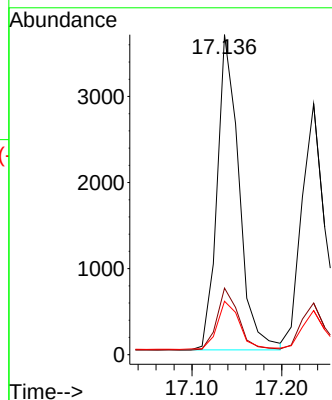
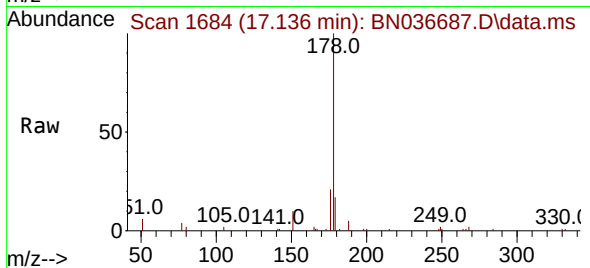




#25
Phenanthrene
Concen: 0.376 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.012 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

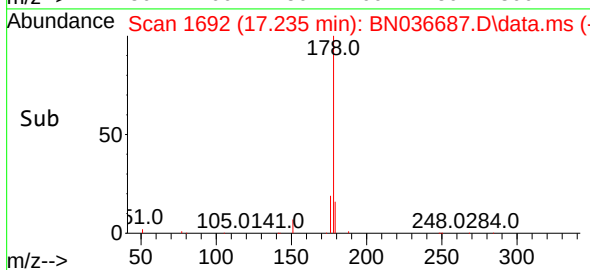
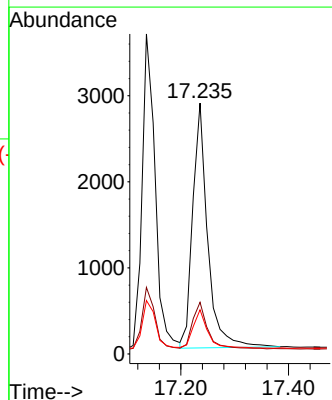
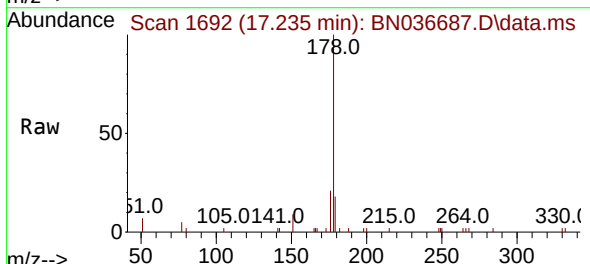
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

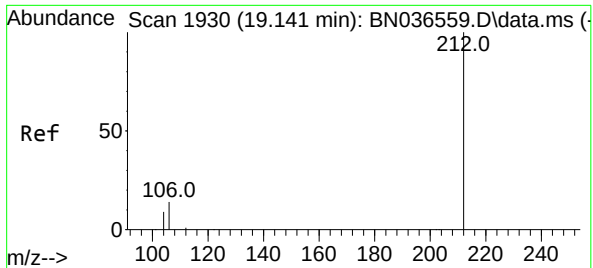
Tgt Ion:178 Resp: 6196
Ion Ratio Lower Upper
178 100
176 19.7 15.9 23.9
179 15.7 12.2 18.4



#26
Anthracene
Concen: 0.369 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:178 Resp: 5487
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.5 12.6 18.8

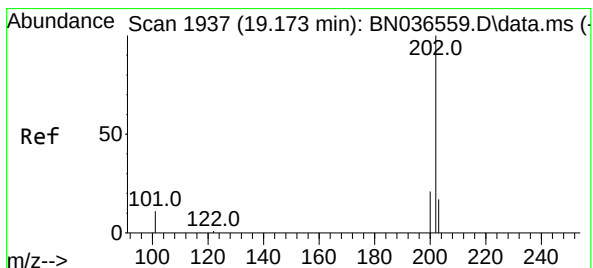
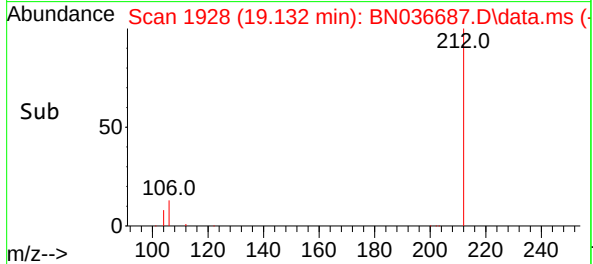
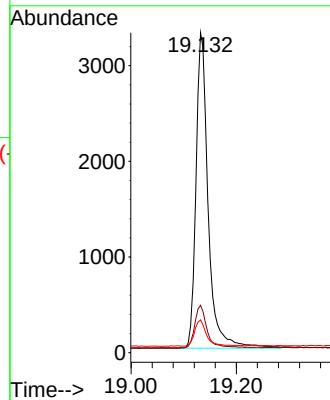
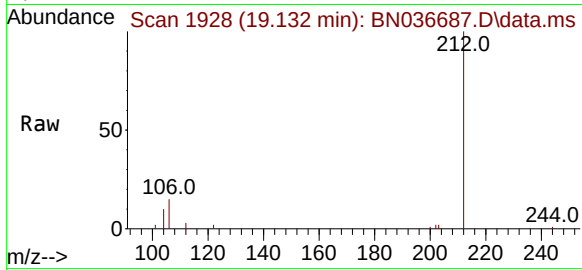




#27
Fluoranthene-d10
Concen: 0.376 ng
RT: 19.132 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

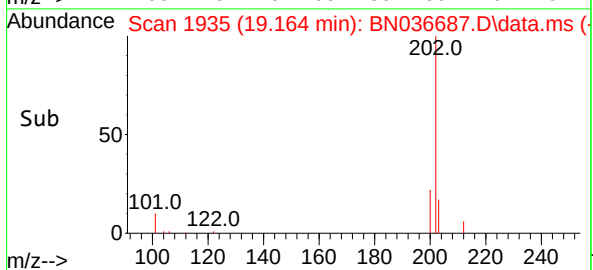
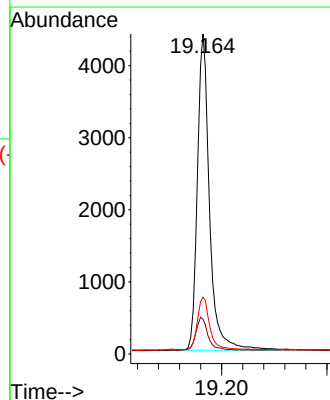
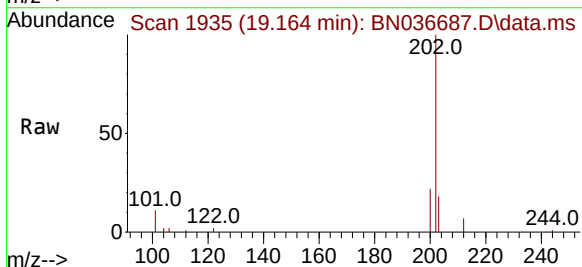
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

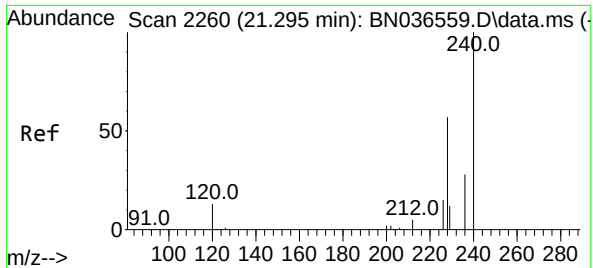
Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.5	11.8	17.6
104	8.2	7.3	10.9



#28
Fluoranthene
Concen: 0.380 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.5	9.4	14.0
203	16.8	13.5	20.3

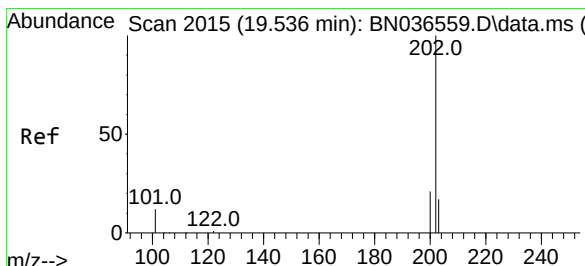
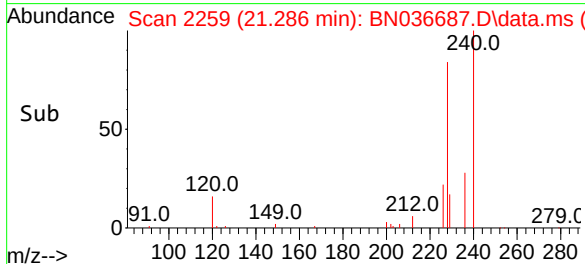
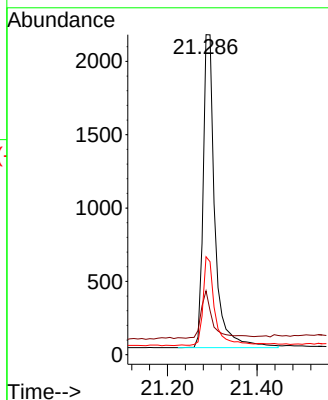
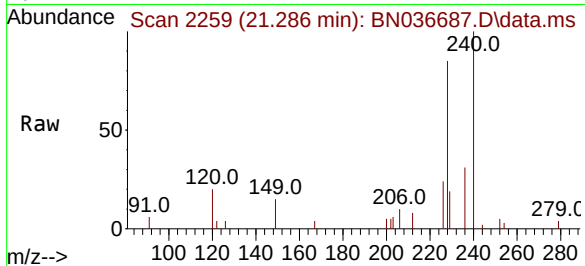




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.286 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

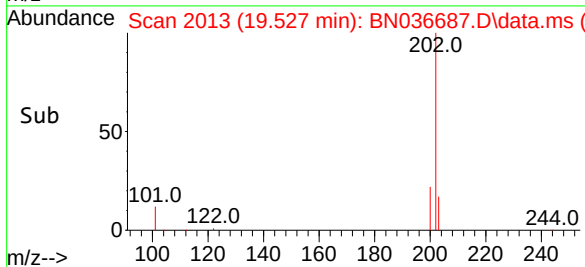
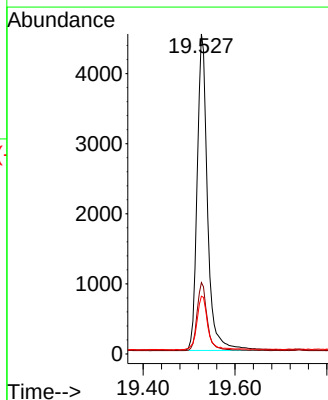
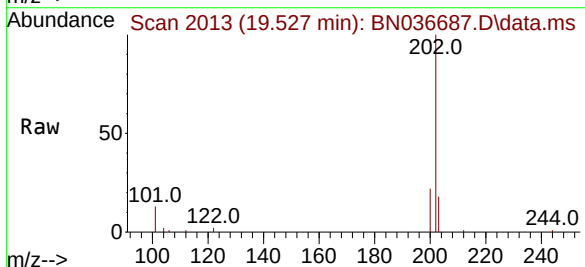
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

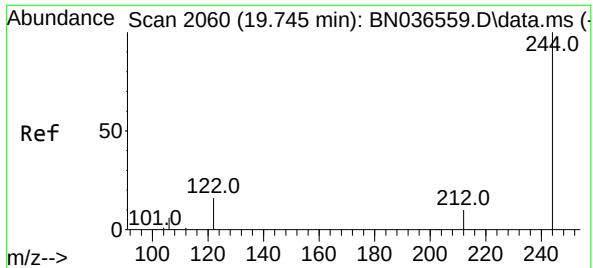
Tgt Ion	Ratio	Lower	Upper
240	100		
120	20.0	14.6	22.0
236	30.6	24.1	36.1



#30
Pyrene
Concen: 0.369 ng
RT: 19.527 min Scan# 2013
Delta R.T. -0.009 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.6	14.1	21.1

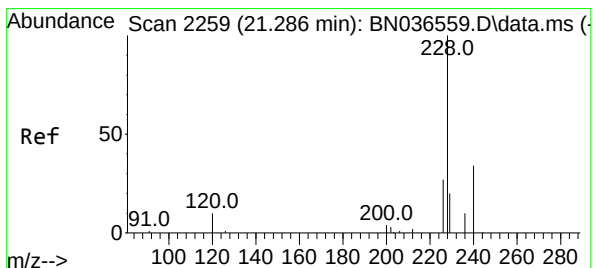
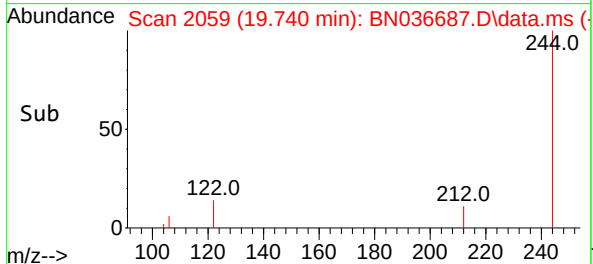
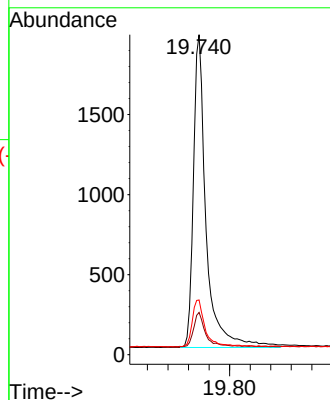
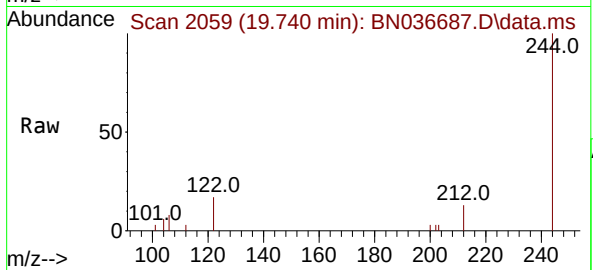




#31
Terphenyl-d14
Concen: 0.358 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.004 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

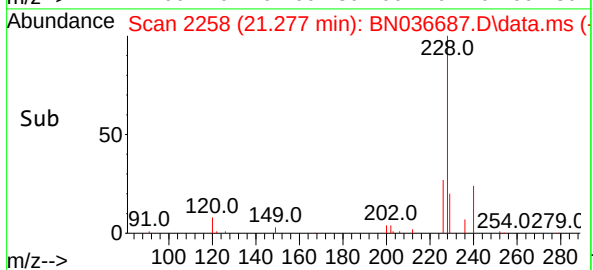
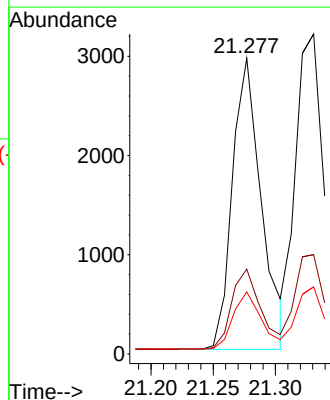
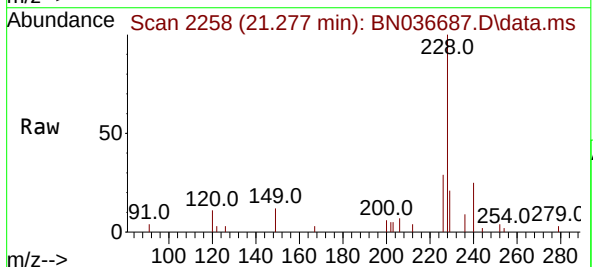
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

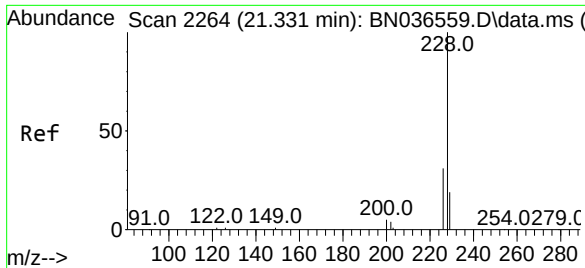
Tgt Ion:244 Resp: 3360
Ion Ratio Lower Upper
244 100
212 13.2 9.6 14.4
122 17.1 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.348 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:228 Resp: 4732
Ion Ratio Lower Upper
228 100
226 28.6 22.5 33.7
229 21.0 16.6 25.0





#33

Chrysene

Concen: 0.383 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036687.D

Acq: 18 Mar 2025 12:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

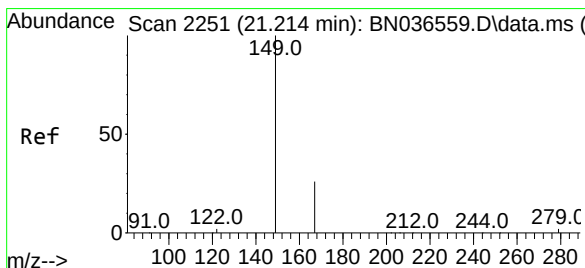
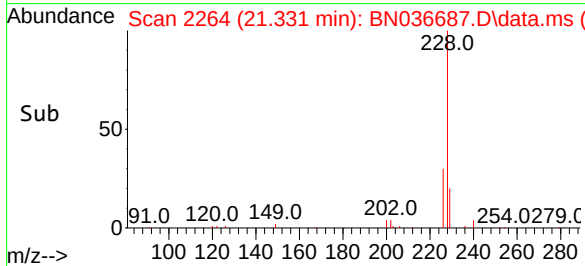
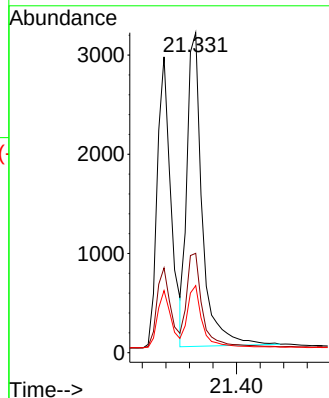
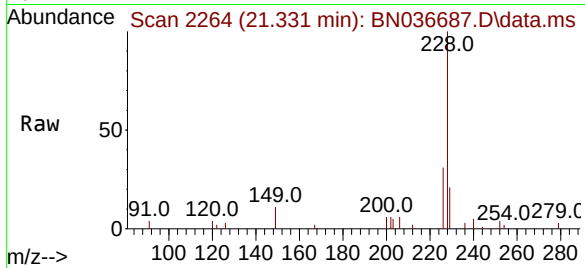
Tgt Ion:228 Resp: 5693

Ion Ratio Lower Upper

228 100

226 31.1 25.3 37.9

229 21.0 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.357 ng

RT: 21.205 min Scan# 2250

Delta R.T. -0.009 min

Lab File: BN036687.D

Acq: 18 Mar 2025 12:35

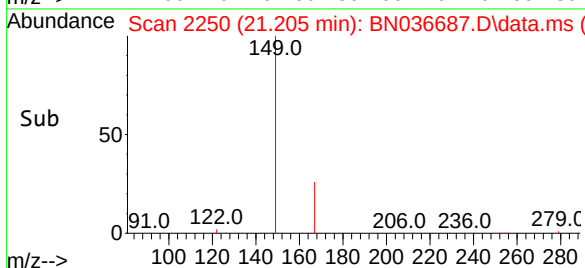
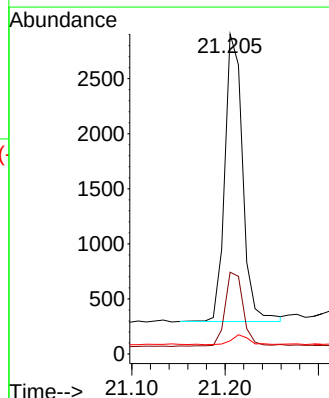
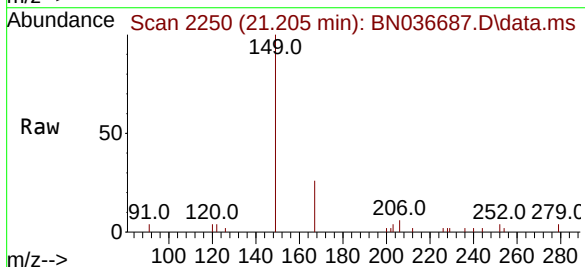
Tgt Ion:149 Resp: 3464

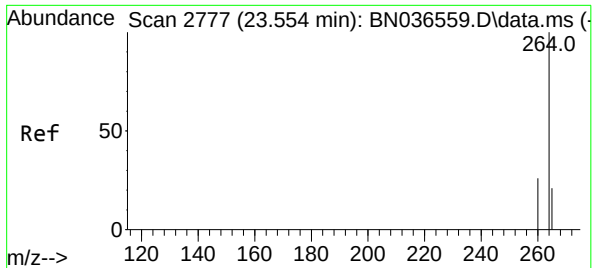
Ion Ratio Lower Upper

149 100

167 26.1 20.7 31.1

279 3.4 3.6 5.4#

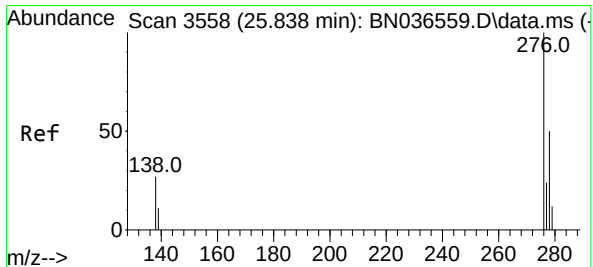
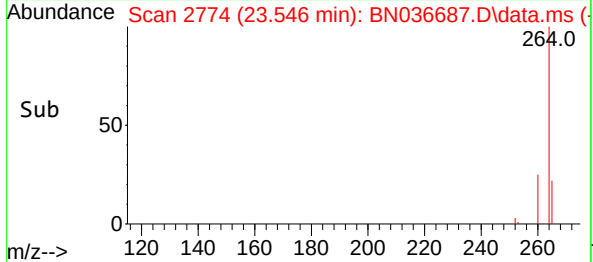
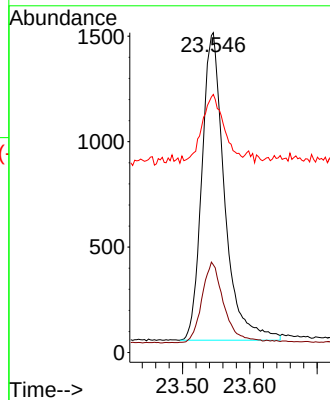
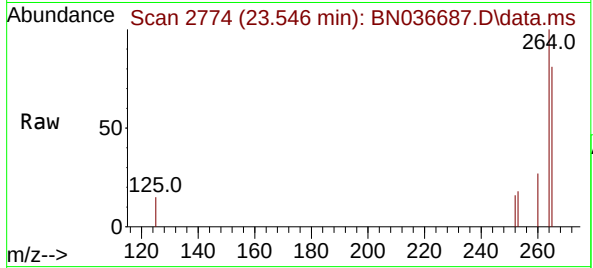




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.546 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

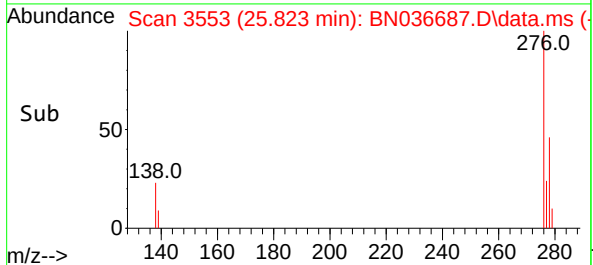
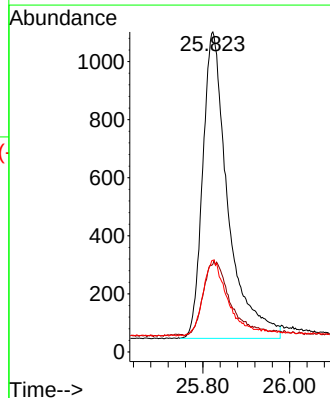
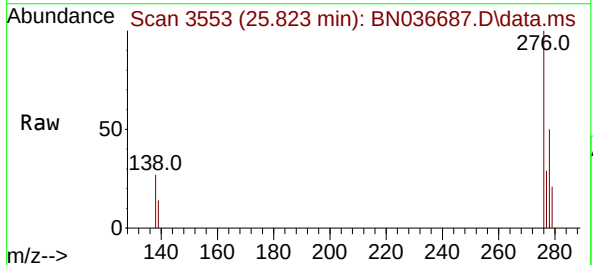
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

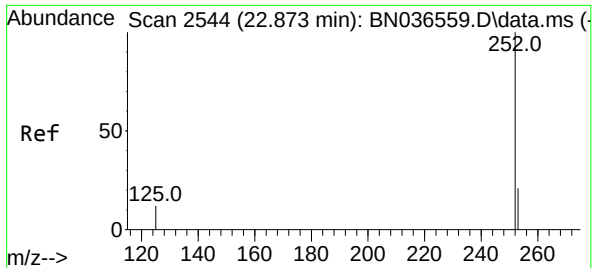
Tgt Ion:264 Resp: 3408
Ion Ratio Lower Upper
264 100
260 27.4 22.6 33.8
265 80.7 88.1 132.1#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.346 ng
RT: 25.823 min Scan# 3553
Delta R.T. -0.014 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:276 Resp: 4254
Ion Ratio Lower Upper
276 100
138 26.1 23.4 35.2
277 24.7 20.0 30.0

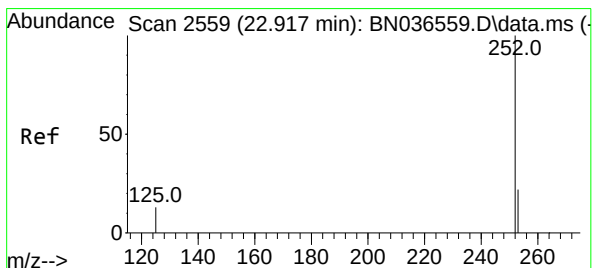
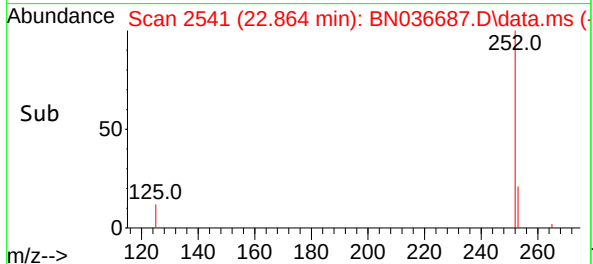
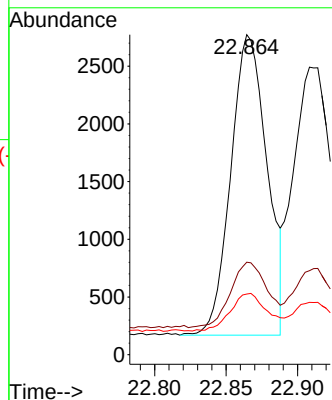
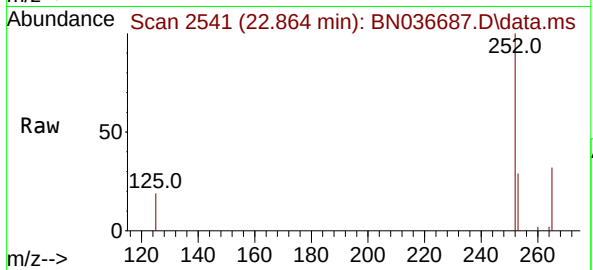




#37
Benzo(b)fluoranthene
Concen: 0.370 ng
RT: 22.864 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

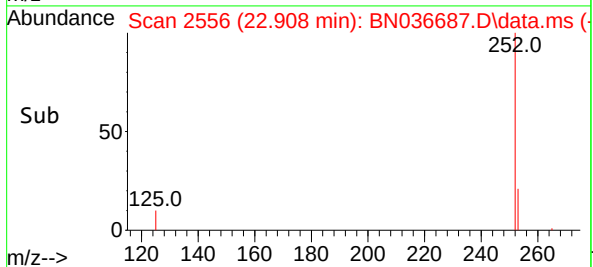
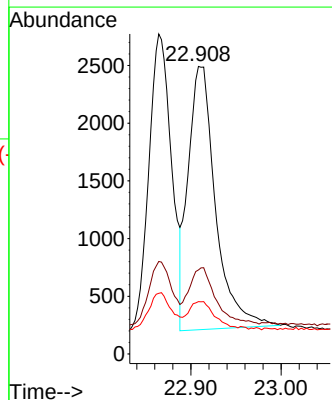
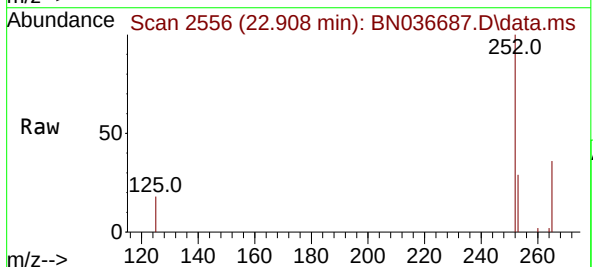
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

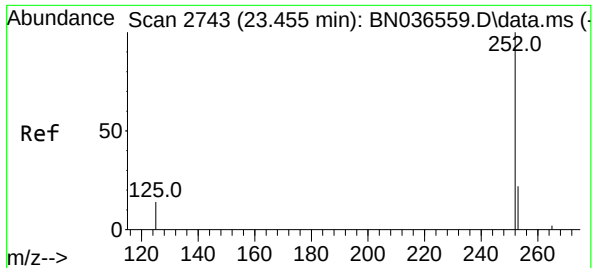
Tgt Ion:252 Resp: 4593
Ion Ratio Lower Upper
252 100
253 28.9 23.9 35.9
125 19.0 17.4 26.2



#38
Benzo(k)fluoranthene
Concen: 0.370 ng
RT: 22.908 min Scan# 2556
Delta R.T. -0.009 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:252 Resp: 4818
Ion Ratio Lower Upper
252 100
253 29.2 24.6 36.8
125 18.2 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.368 ng

RT: 23.446 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036687.D

Acq: 18 Mar 2025 12:35

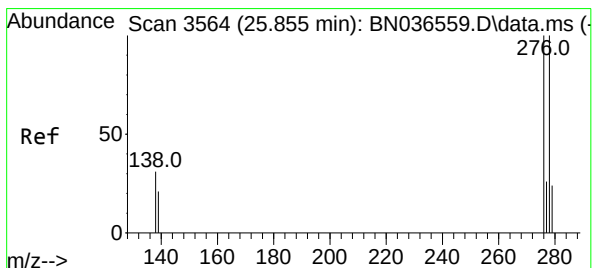
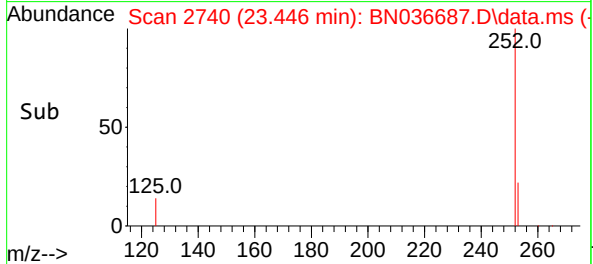
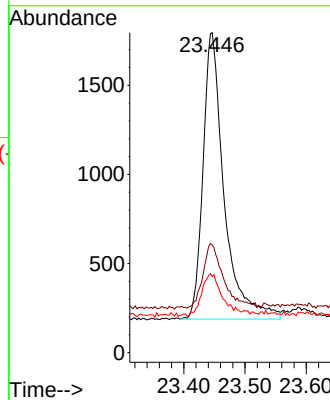
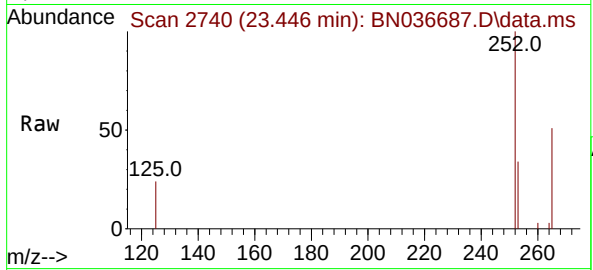
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:252	Resp:	3841
Ion Ratio	Lower	Upper
252	100	
253	33.7	27.8 41.8
125	23.8	22.7 34.1



#40

Dibenzo(a,h)anthracene

Concen: 0.338 ng

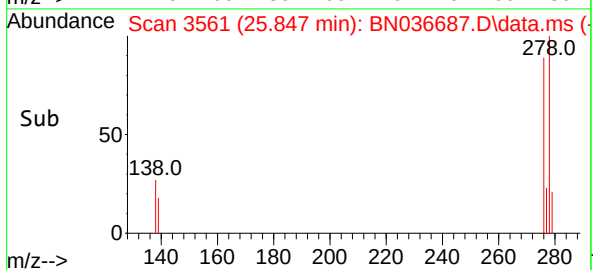
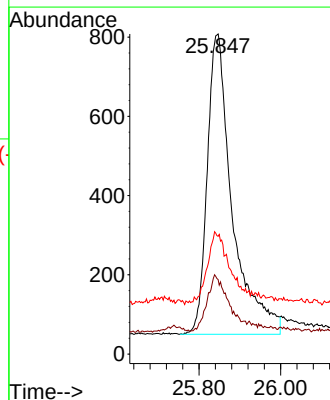
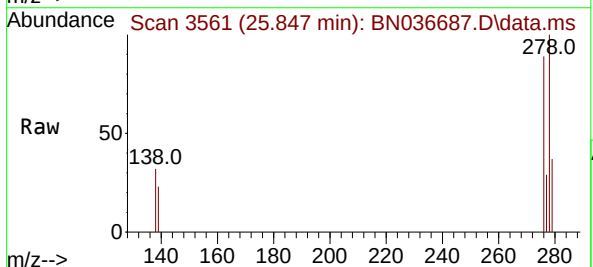
RT: 25.847 min Scan# 3561

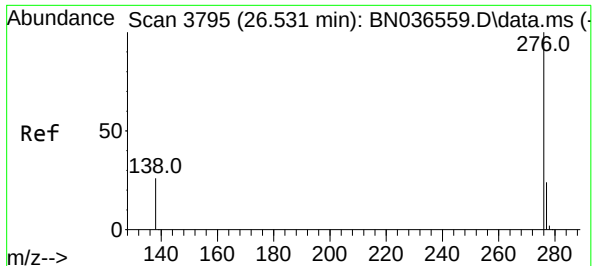
Delta R.T. -0.009 min

Lab File: BN036687.D

Acq: 18 Mar 2025 12:35

Tgt Ion:278	Resp:	3233
Ion Ratio	Lower	Upper
278	100	
139	23.3	20.8 31.2
279	36.8	28.8 43.2





#41

Benzo(g,h,i)perylene

Concen: 0.349 ng

RT: 26.513 min Scan# 31

Delta R.T. -0.017 min

Lab File: BN036687.D

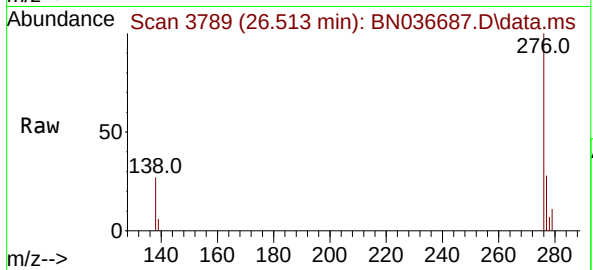
Acq: 18 Mar 2025 12:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



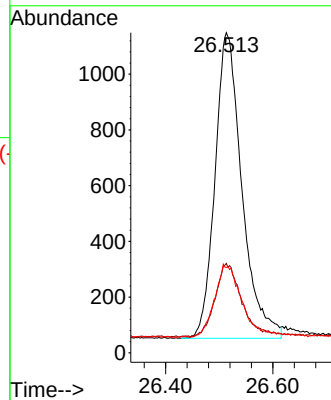
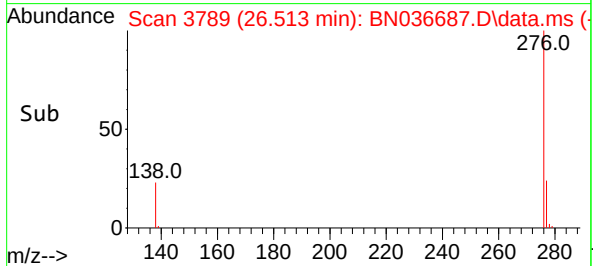
Tgt Ion:276 Resp: 3822

Ion Ratio Lower Upper

276 100

277 27.9 22.2 33.4

138 26.6 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
 Data File : BN036687.D
 Acq On : 18 Mar 2025 12:35
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Mar 18 12:58:38 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 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	80	-0.01
2	1,4-Dioxane	0.444	0.434	2.3	70	0.00
3	n-Nitrosodimethylamine	0.898	0.916	-2.0	78	0.00
4 S	2-Fluorophenol	0.932	0.829	11.1	67	-0.01
5 S	Phenol-d6	1.152	1.015	11.9	72	-0.02
6	bis(2-Chloroethyl)ether	1.190	1.033	13.2	70	-0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	89	-0.01
8 S	Nitrobenzene-d5	0.435	0.372	14.5	80	-0.02
9	Naphthalene	1.177	1.056	10.3	78	-0.02
10	Hexachlorobutadiene	0.277	0.250	9.7	76	-0.01
11 SURR	2-Methylnaphthalene-d10	0.595	0.532	10.6	78	-0.02
12	2-Methylnaphthalene	0.749	0.685	8.5	80	-0.02
13 I	Acenaphthene-d10	1.000	1.000	0.0	89	-0.01
14 S	2,4,6-Tribromophenol	0.182	0.166	8.8	79	-0.01
15 S	2-Fluorobiphenyl	2.327	2.097	9.9	78	0.00
16	Acenaphthylene	1.888	1.715	9.2	79	-0.01
17	Acenaphthene	1.236	1.133	8.3	79	-0.02
18	Fluorene	1.672	1.550	7.3	78	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	92	-0.01
20	4,6-Dinitro-2-methylphenol	0.086	0.064	25.6#	76	0.00
21	4-Bromophenyl-phenylether	0.251	0.237	5.6	79	-0.01
22	Hexachlorobenzene	0.303	0.276	8.9	75	-0.01
23	Atrazine	0.201	0.187	7.0	80	0.00
24	Pentachlorophenol	0.138	0.115	16.7	77	-0.01
25	Phenanthrene	1.200	1.127	6.1	80	-0.01
26	Anthracene	1.083	0.998	7.8	80	-0.01
27 SURR	Fluoranthene-d10	1.025	0.964	6.0	79	0.00
28	Fluoranthene	1.348	1.279	5.1	81	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	95	0.00
30	Pyrene	1.956	1.806	7.7	81	0.00
31 S	Terphenyl-d14	0.958	0.858	10.4	80	0.00
32	Benzo(a)anthracene	1.391	1.209	13.1	80	0.00
33	Chrysene	1.520	1.454	4.3	86	0.00
34	Bis(2-ethylhexyl)phthalate	0.990	0.885	10.6	81	0.00
35 I	Perylene-d12	1.000	1.000	0.0	96	0.00
36	Indeno(1,2,3-cd)pyrene	1.444	1.248	13.6	78	-0.01
37	Benzo(b)fluoranthene	1.456	1.348	7.4	84	0.00
38	Benzo(k)fluoranthene	1.527	1.414	7.4	84	0.00
39 C	Benzo(a)pyrene	1.226	1.127	8.1	83	0.00
40	Dibenzo(a,h)anthracene	1.124	0.949	15.6	79	0.00
41	Benzo(g,h,i)perylene	1.286	1.121	12.8	78	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
Data File : BN036687.D
Acq On : 18 Mar 2025 12:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 18 12:58:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	80	-0.01
2	1,4-Dioxane	0.400	0.391	2.3	70	0.00
3	n-Nitrosodimethylamine	0.400	0.408	-2.0	78	0.00
4 S	2-Fluorophenol	0.400	0.356	11.0	67	-0.01
5 S	Phenol-d6	0.400	0.352	12.0	72	-0.02
6	bis(2-Chloroethyl)ether	0.400	0.347	13.3	70	-0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	89	-0.01
8 S	Nitrobenzene-d5	0.400	0.342	14.5	80	-0.02
9	Naphthalene	0.400	0.359	10.3	78	-0.02
10	Hexachlorobutadiene	0.400	0.361	9.8	76	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.357	10.8	78	-0.02
12	2-Methylnaphthalene	0.400	0.366	8.5	80	-0.02
13 I	Acenaphthene-d10	0.400	0.400	0.0	89	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.367	8.3	79	-0.01
15 S	2-Fluorobiphenyl	0.400	0.361	9.8	78	0.00
16	Acenaphthylene	0.400	0.363	9.3	79	-0.01
17	Acenaphthene	0.400	0.367	8.3	79	-0.02
18	Fluorene	0.400	0.371	7.3	78	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	92	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.397	0.8	76	0.00
21	4-Bromophenyl-phenylether	0.400	0.379	5.3	79	-0.01
22	Hexachlorobenzene	0.400	0.365	8.8	75	-0.01
23	Atrazine	0.400	0.372	7.0	80	0.00
24	Pentachlorophenol	0.400	0.334	16.5	77	-0.01
25	Phenanthrene	0.400	0.376	6.0	80	-0.01
26	Anthracene	0.400	0.369	7.8	80	-0.01
27 SURR	Fluoranthene-d10	0.400	0.376	6.0	79	0.00
28	Fluoranthene	0.400	0.380	5.0	81	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	95	0.00
30	Pyrene	0.400	0.369	7.8	81	0.00
31 S	Terphenyl-d14	0.400	0.358	10.5	80	0.00
32	Benzo(a)anthracene	0.400	0.348	13.0	80	0.00
33	Chrysene	0.400	0.383	4.3	86	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.357	10.8	81	0.00
35 I	Perylene-d12	0.400	0.400	0.0	96	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.346	13.5	78	-0.01
37	Benzo(b)fluoranthene	0.400	0.370	7.5	84	0.00
38	Benzo(k)fluoranthene	0.400	0.370	7.5	84	0.00
39 C	Benzo(a)pyrene	0.400	0.368	8.0	83	0.00
40	Dibenzo(a,h)anthracene	0.400	0.338	15.5	79	0.00
41	Benzo(g,h,i)perylene	0.400	0.349	12.8	78	-0.02

(#) = Out of Range

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



QC SAMPLE DATA

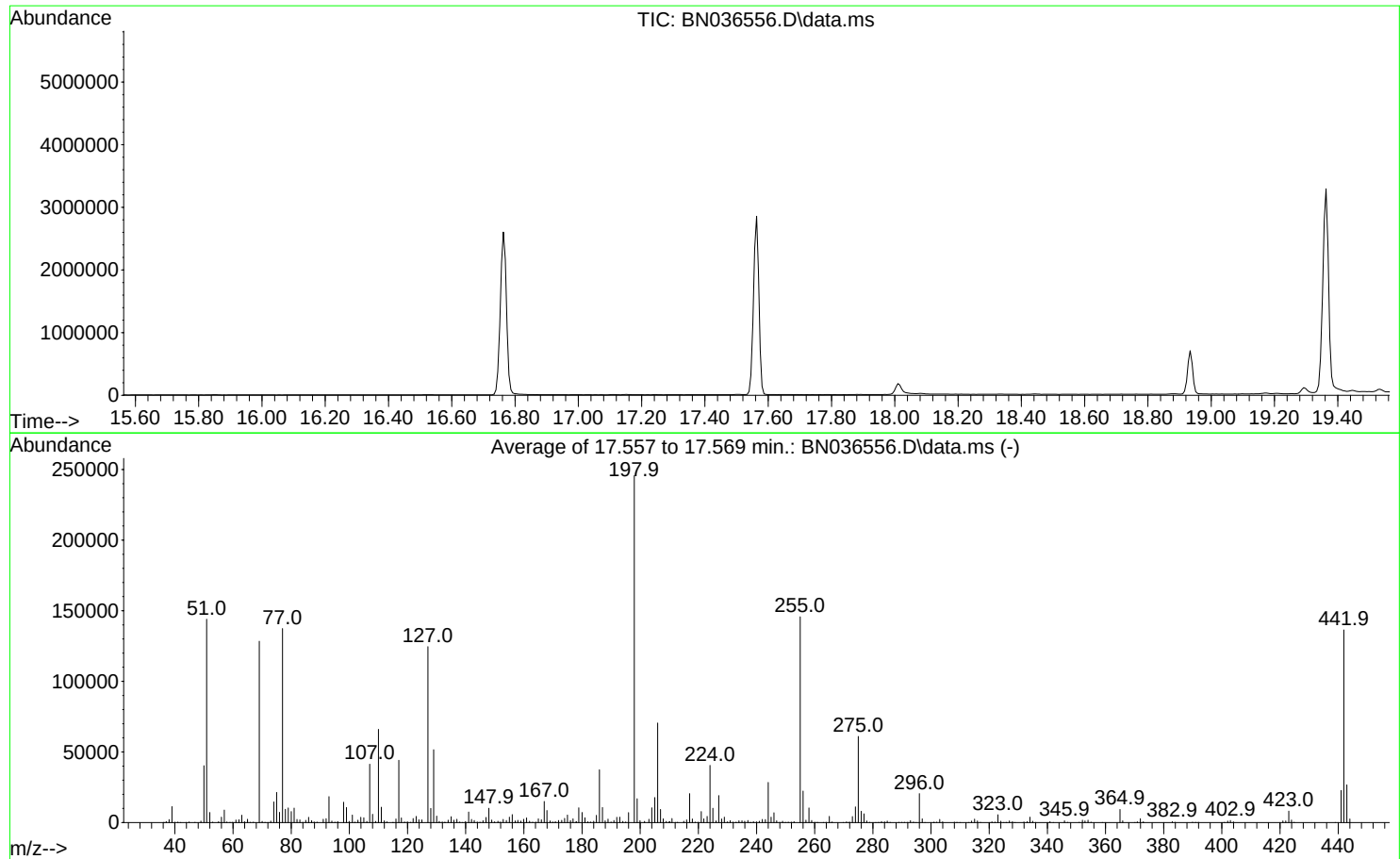
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
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-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025



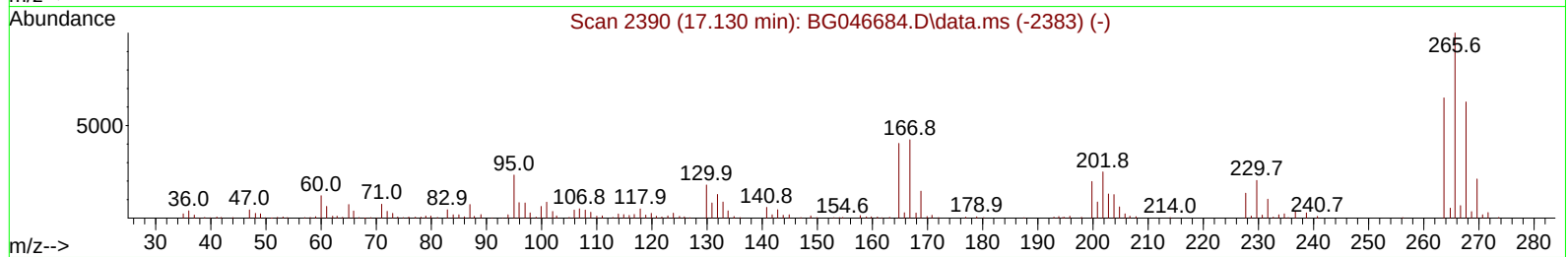
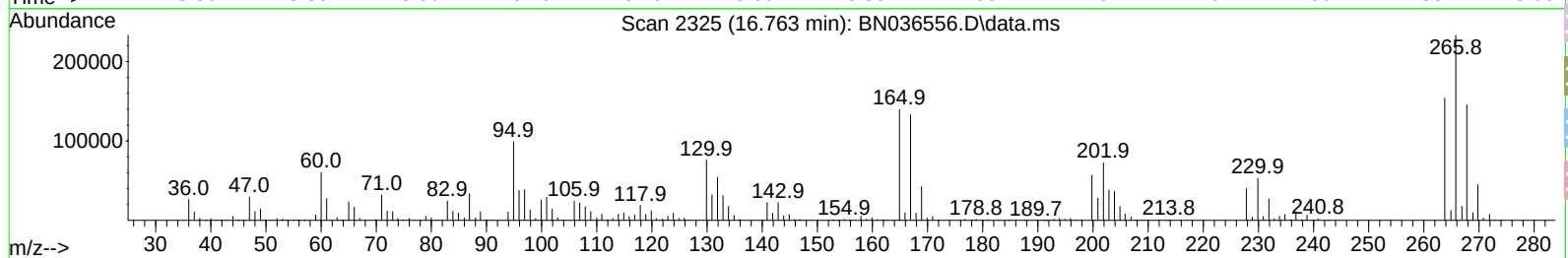
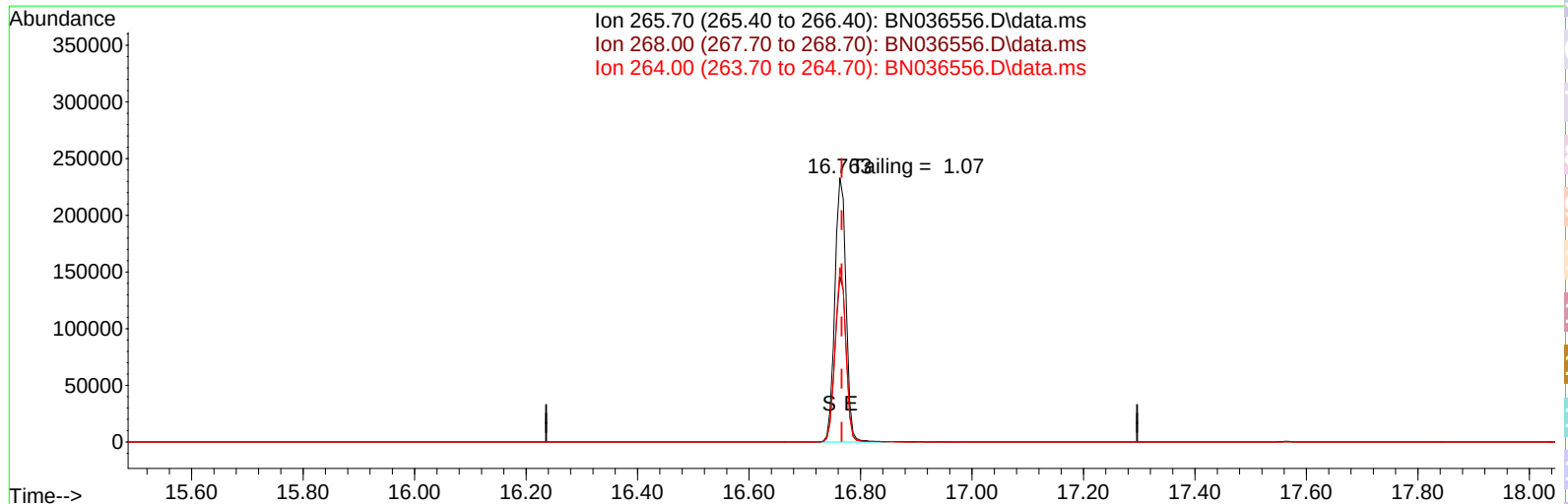
AutoFind: Scans 2460, 2461, 2462; Background Corrected with Scan 2453

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	58.6	144050	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	52.3	128410	PASS
70	69	0.00	2	0.7	835	PASS
127	198	10	80	50.7	124576	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	245632	PASS
199	198	5	9	6.9	16887	PASS
275	198	10	60	24.8	60997	PASS
365	198	1	100	3.8	9349	PASS
441	198	0.01	100	9.3	22761	PASS
442	442	50	100	100.0	136488	PASS
443	442	15	24	19.6	26765	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 10 17:07:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration



TIC: BN036556.D\data.ms

(70) Pentachlorophenol (C)

16.763min (-0.003) 23577.14 ng

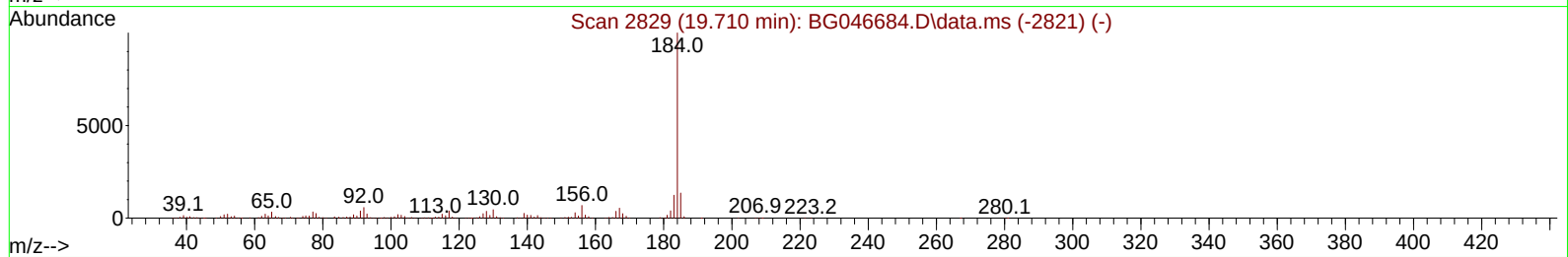
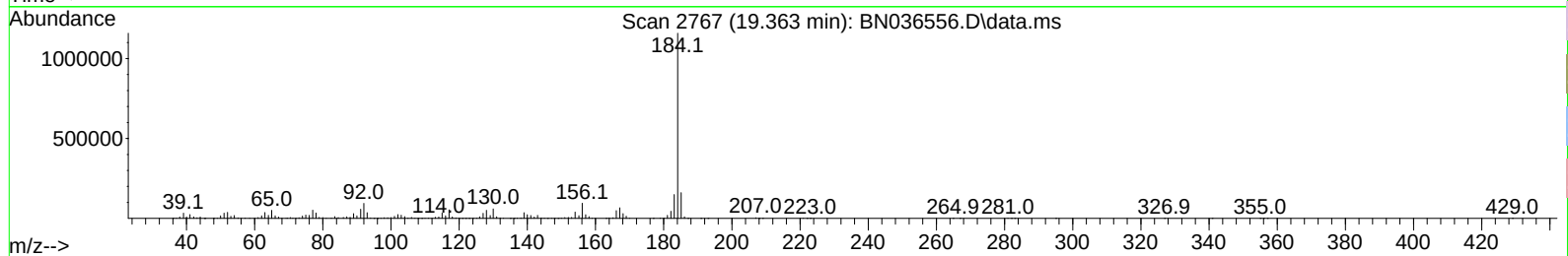
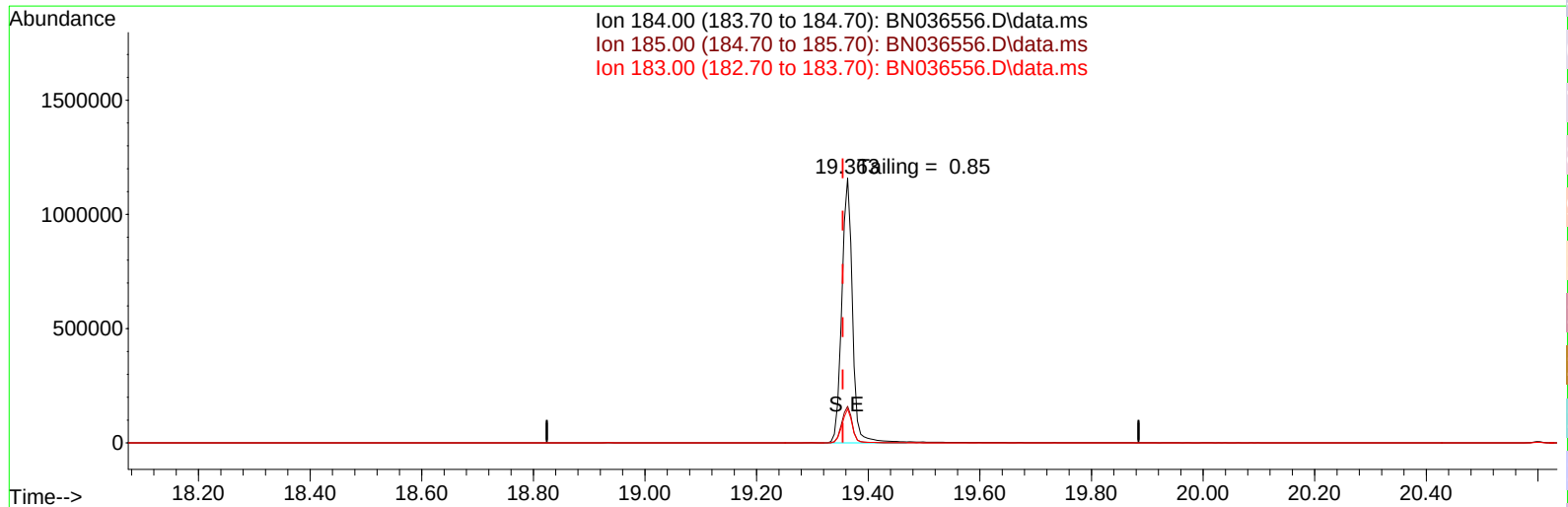
response 323613

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.52
264.00	61.60	66.01
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 10 17:07:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration



TIC: BN036556.D\data.ms

(77) Benzidine

19.363min (+ 0.009) 0.00 ng

response 1553313

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.86
183.00	13.20	12.85
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

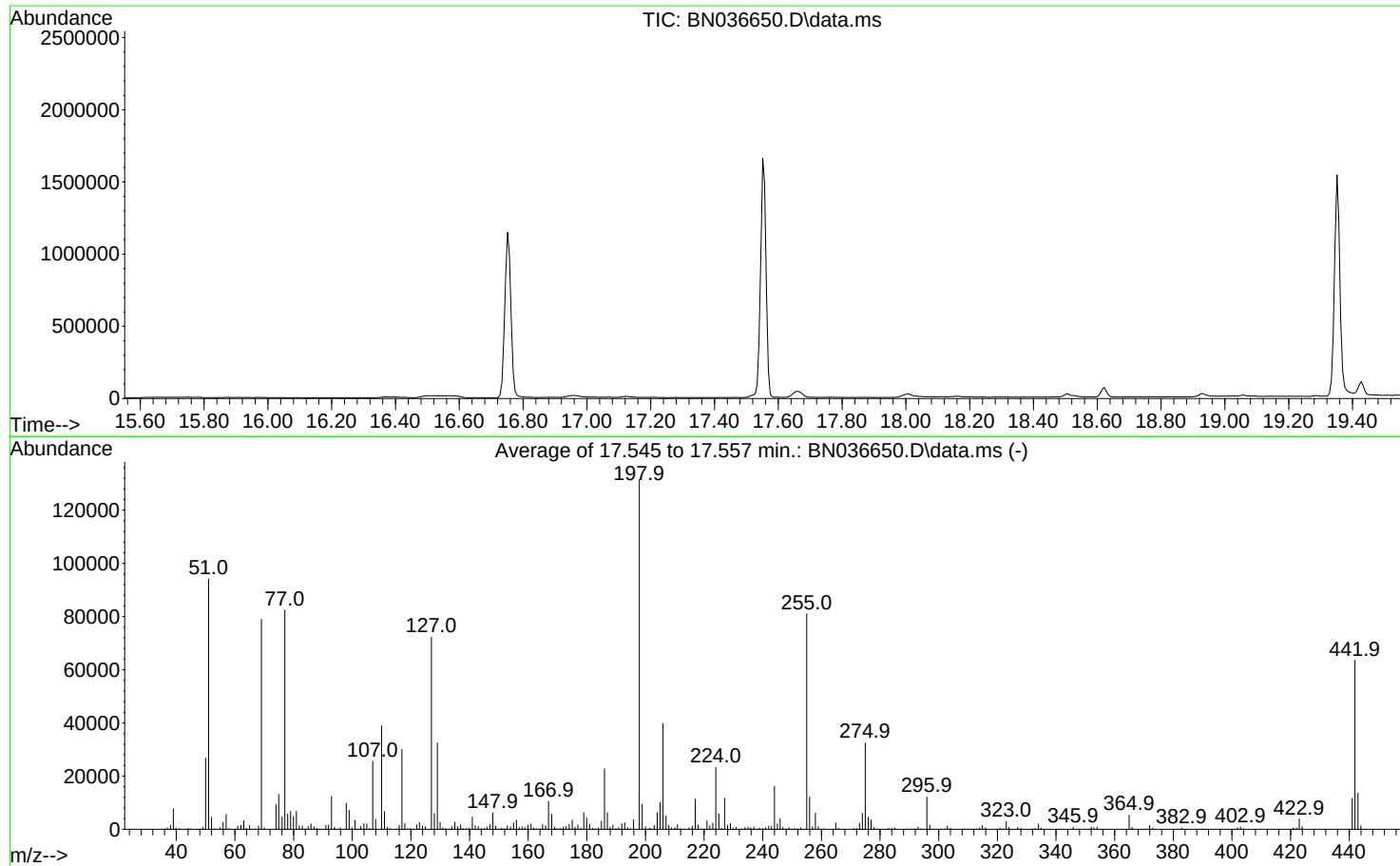
Date	Instrument Name	DFTPP Data File
3/10/2025	BNA_N	<u>BN036556.D</u>
Compound Name	Response	Retention Time
DDT	1110406	20.598
DDD	11596	20.21
DDE	530	19.645
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
12126	1122532	1.08

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036650.D
Acq On : 17 Mar 2025 09:10
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-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025



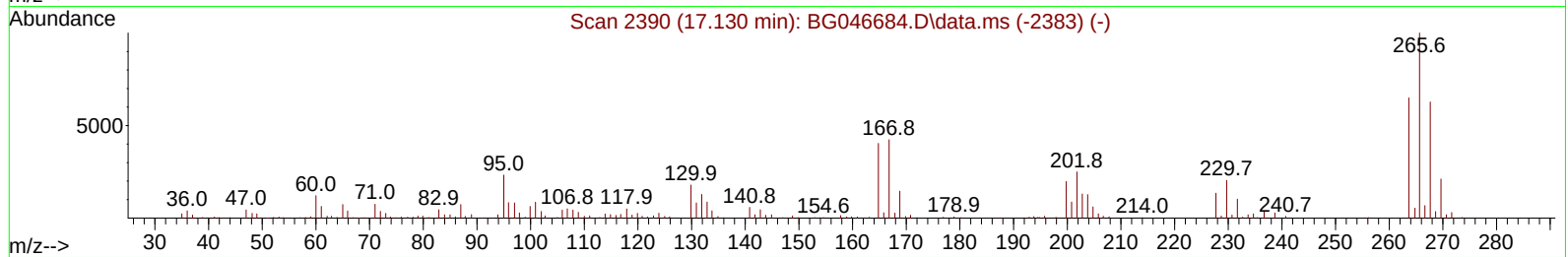
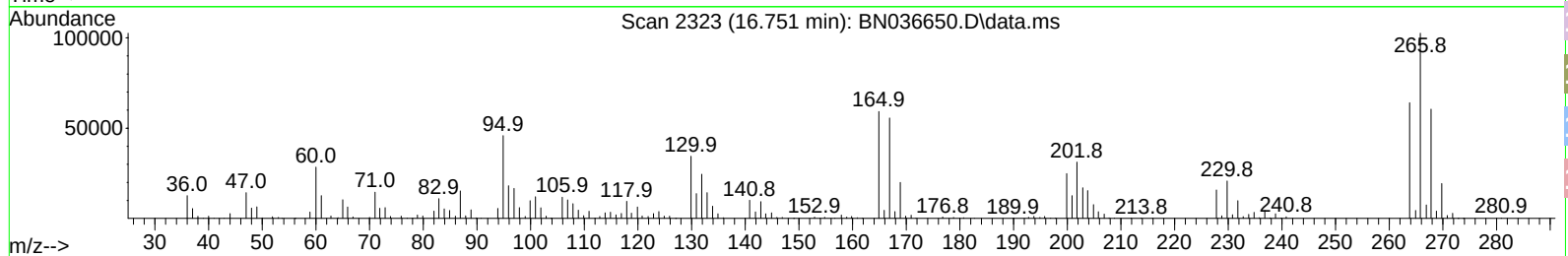
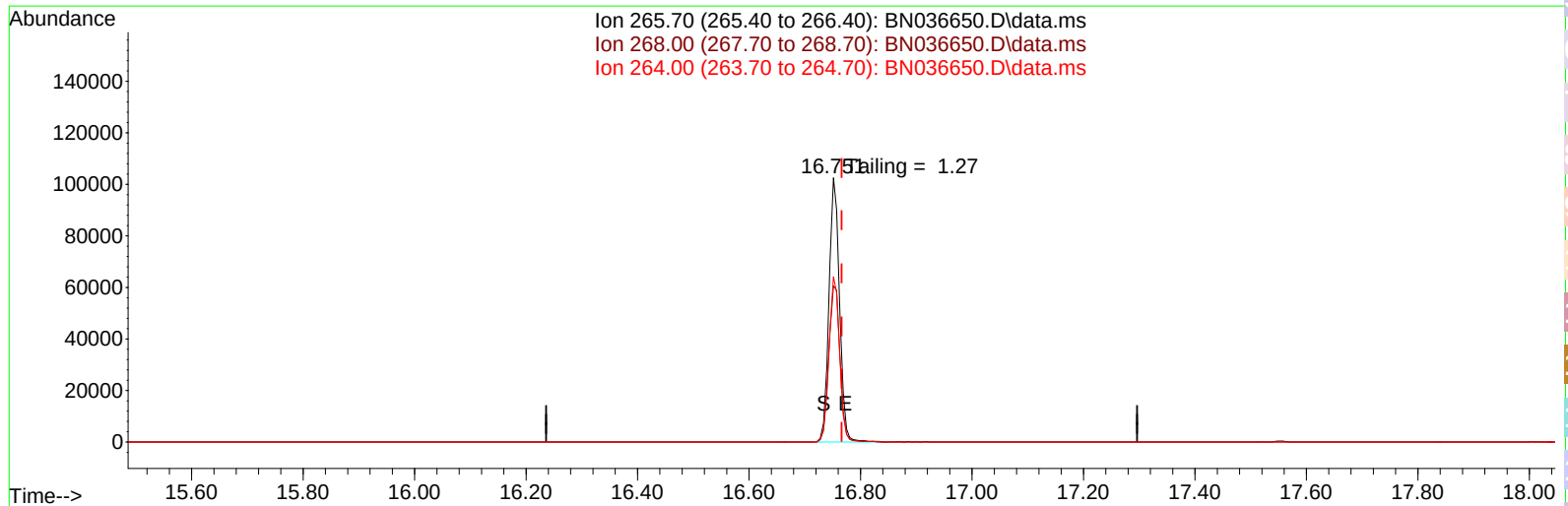
AutoFind: Scans 2458, 2459, 2460; Background Corrected with Scan 2452

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	71.6	94163	PASS
68	69	0.00	2	1.5	1192	PASS
69	198	0.00	100	60.1	78976	PASS
70	69	0.00	2	0.6	490	PASS
127	198	10	80	55.0	72275	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	131491	PASS
199	198	5	9	7.2	9462	PASS
275	198	10	60	24.7	32496	PASS
365	198	1	100	4.1	5350	PASS
441	198	0.01	100	8.8	11603	PASS
442	442	50	100	100.0	63571	PASS
443	442	15	24	21.3	13557	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036650.D
Acq On : 17 Mar 2025 09:10
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 17 18:55:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 17 01:20:13 2025
Response via : Initial Calibration



TIC: BN036650.D\data.ms

(70) Pentachlorophenol (C)

16.751min (-0.015) 17170.72 ng

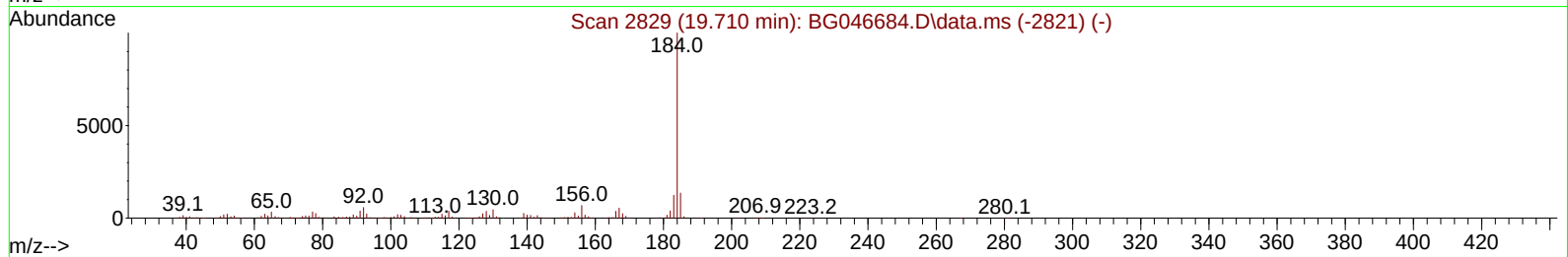
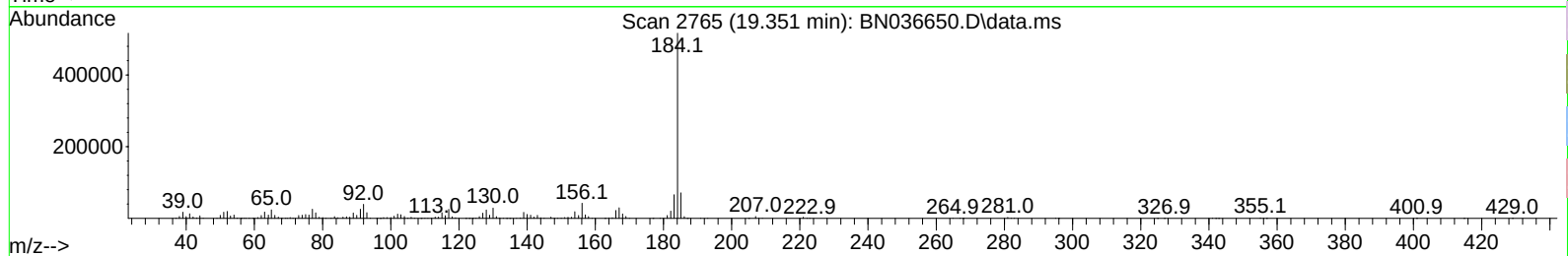
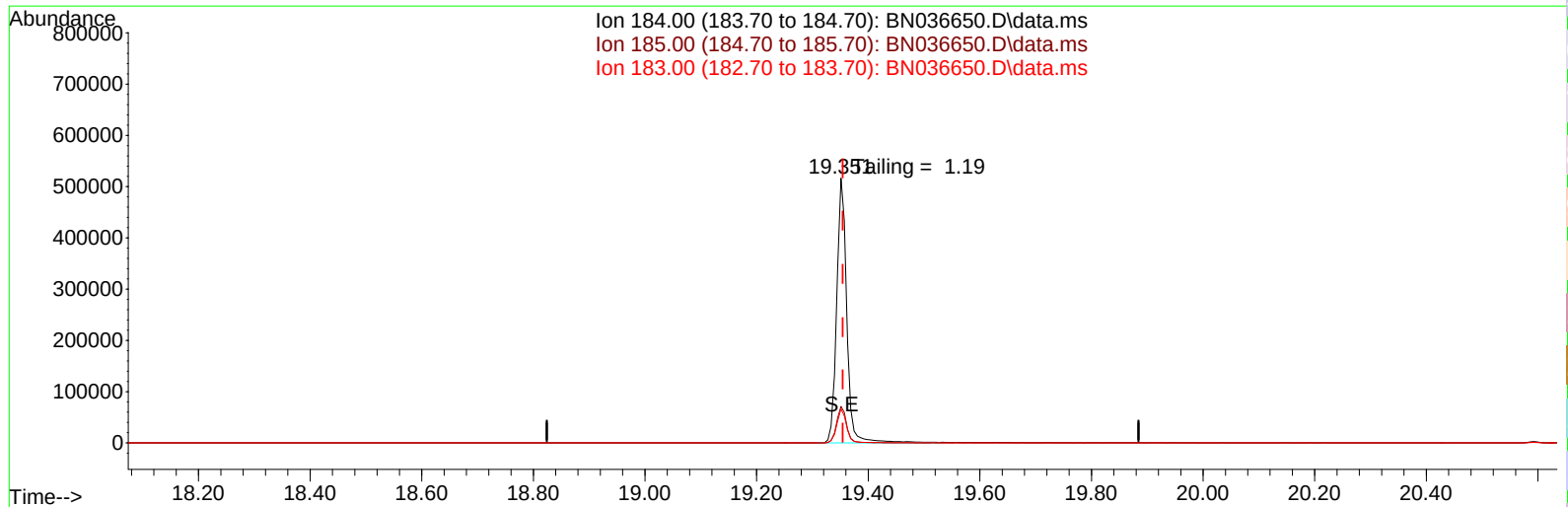
response 134482

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	59.07
264.00	61.60	62.53
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036650.D
Acq On : 17 Mar 2025 09:10
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 17 18:55:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 17 01:20:13 2025
Response via : Initial Calibration



TIC: BN036650.D\data.ms

(77) Benzidine

19.351min (-0.003) 0.00 ng

response 648586

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.79
183.00	13.20	12.82
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

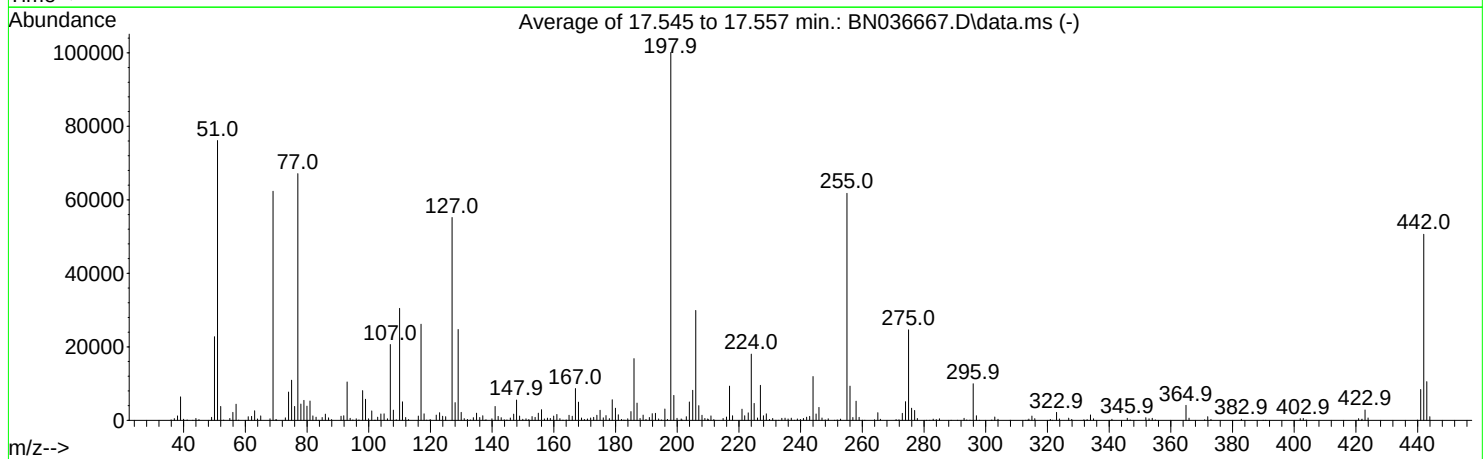
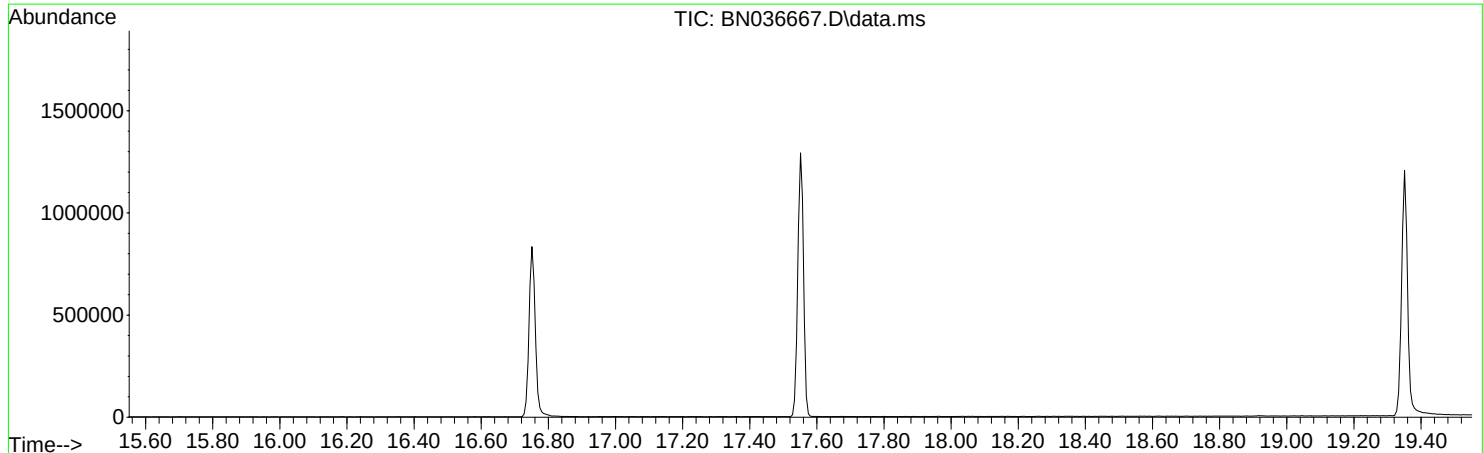
Date	Instrument Name	DFTPP Data File
3/17/2025	BNA_N	<u>BN036650.D</u>
Compound Name	Response	Retention Time
DDT	427402	20.592
DDD	7023	20.151
DDE	629	19.645
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
7652	435054	1.76

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036667.D
Acq On : 17 Mar 2025 20:23
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-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025



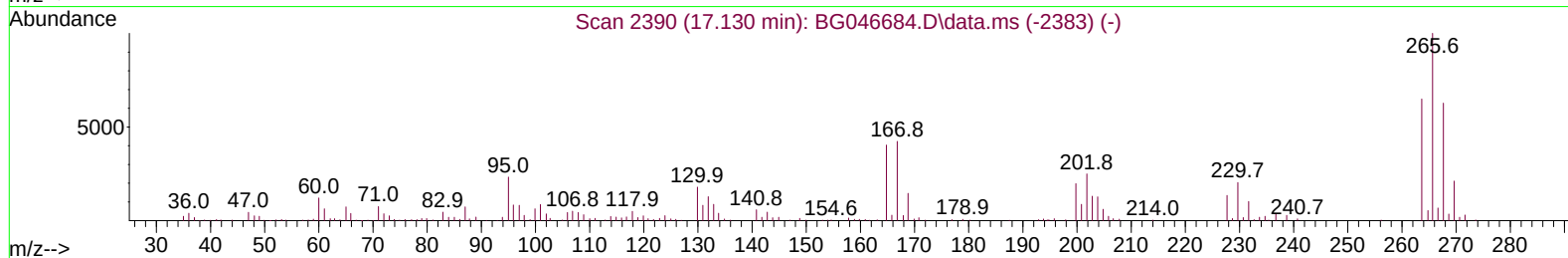
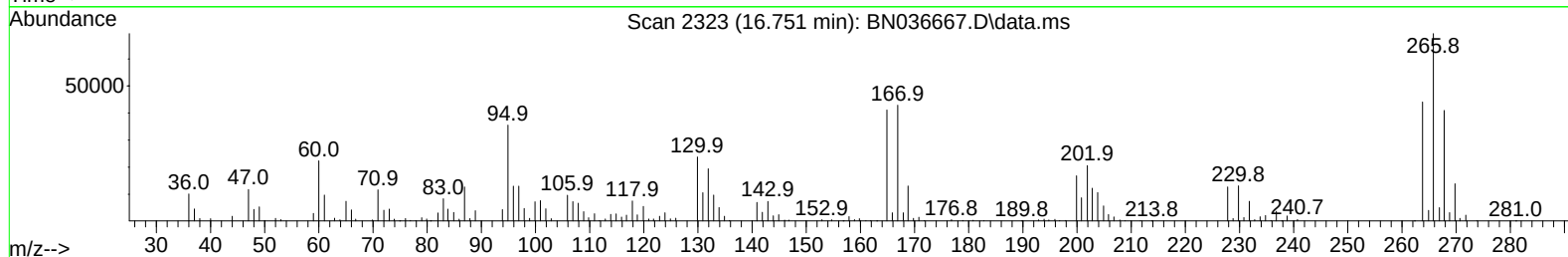
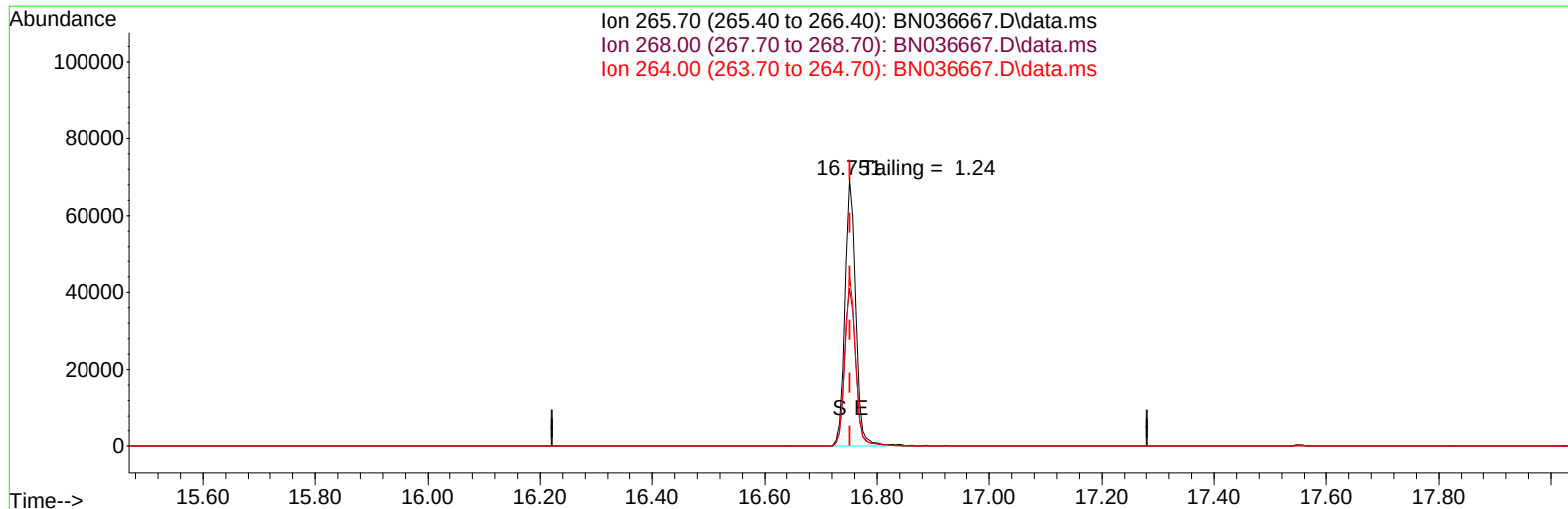
AutoFind: Scans 2458, 2459, 2460; Background Corrected with Scan 2452

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	76.1	76120	PASS
68	69	0.00	2	0.7	429	PASS
69	198	0.00	100	62.3	62344	PASS
70	69	0.00	2	0.3	205	PASS
127	198	10	80	55.2	55208	PASS
197	198	0.00	2	0.2	248	PASS
198	198	100	100	100.0	100083	PASS
199	198	5	9	6.8	6805	PASS
275	198	10	60	24.6	24659	PASS
365	198	1	100	4.1	4079	PASS
441	198	0.01	100	8.4	8421	PASS
442	442	50	100	100.0	50624	PASS
443	442	15	24	20.8	10520	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036667.D
Acq On : 17 Mar 2025 20:23
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 18 01:27:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Mar 18 01:27:23 2025
Response via : Initial Calibration



TIC: BN036667.D\data.ms

(70) Pentachlorophenol (C)

16.751min (0.000) 16844.36 ng

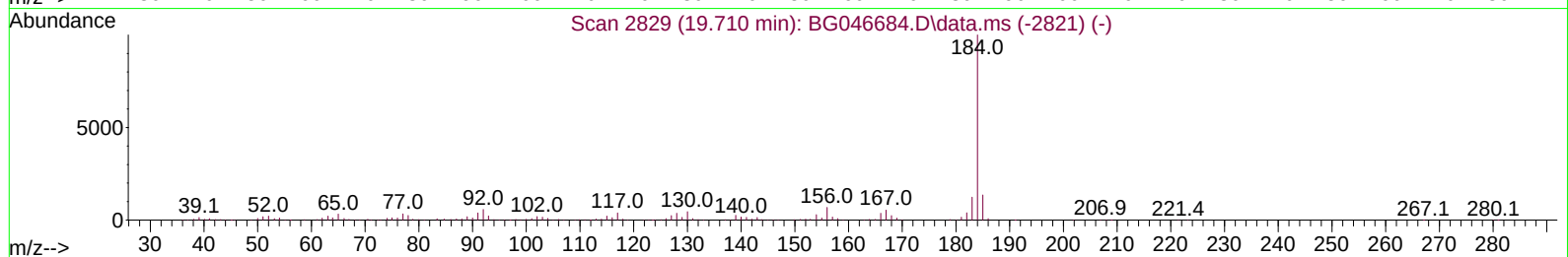
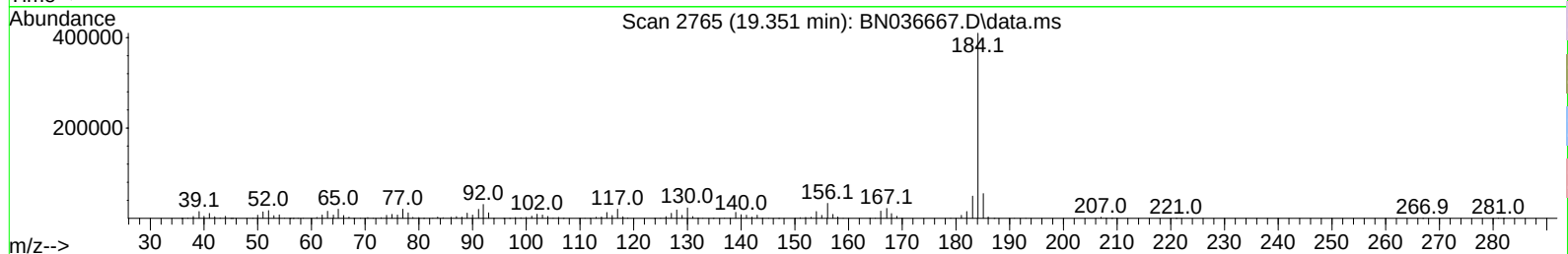
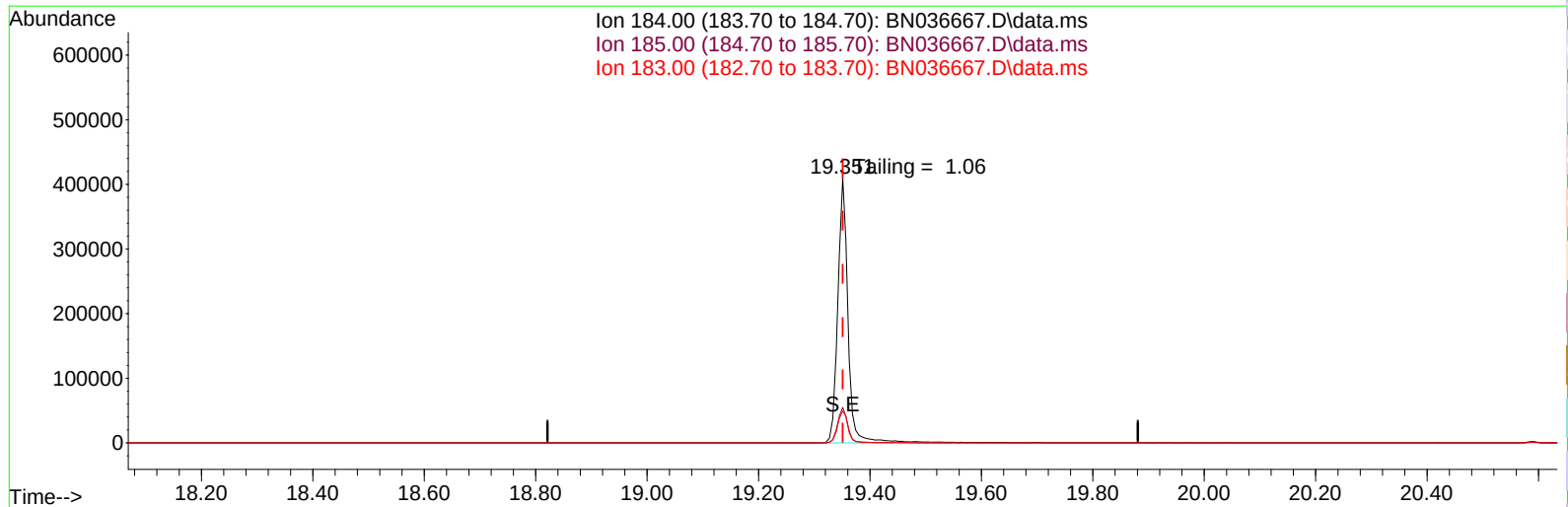
response 92401

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	59.06
264.00	61.60	63.56
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036667.D
Acq On : 17 Mar 2025 20:23
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 18 01:27:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Mar 18 01:27:23 2025
Response via : Initial Calibration



TIC: BN036667.D\data.ms

(77) Benzidine

19.351min (0.000) 0.00 ng

response 518588

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.44
183.00	13.20	12.05
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

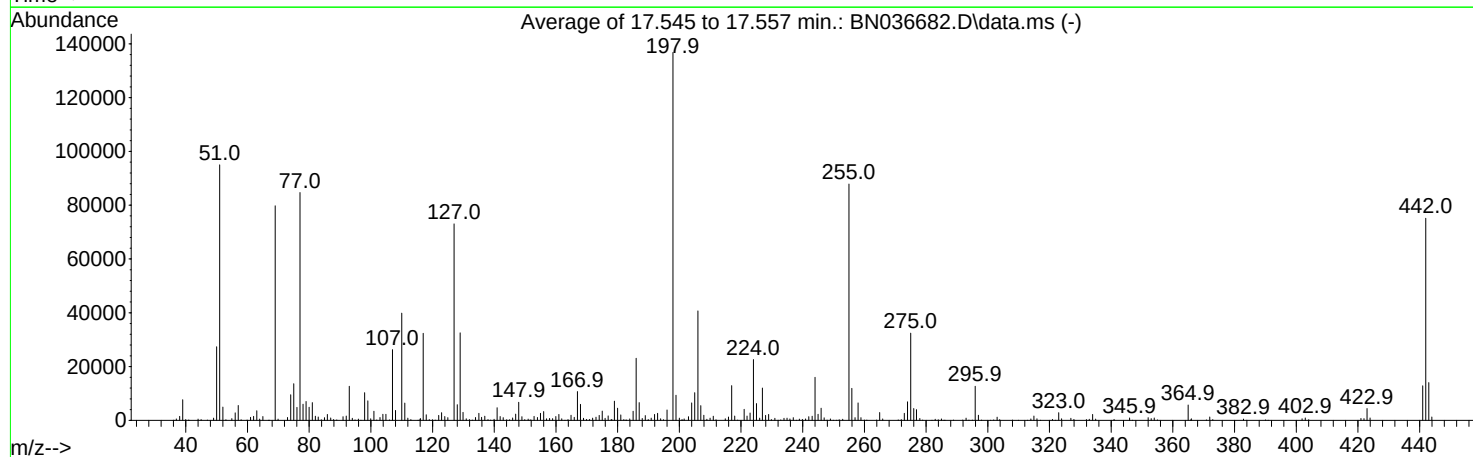
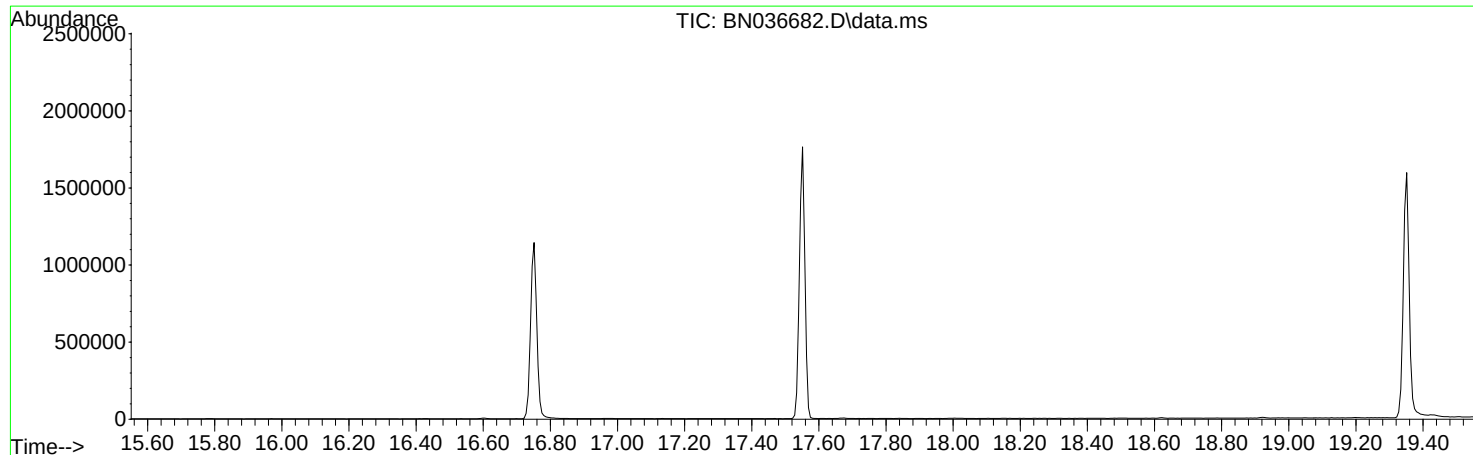
Date	Instrument Name	DFTPP Data File
3/17/2025	BNA_N	<u>BN036667.D</u>
Compound Name	Response	Retention Time
DDT	323246	20.592
DDD	4464	20.151
DDE	248	19.645
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
4712	327958	1.44

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
Data File : BN036682.D
Acq On : 18 Mar 2025 08:42
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-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025



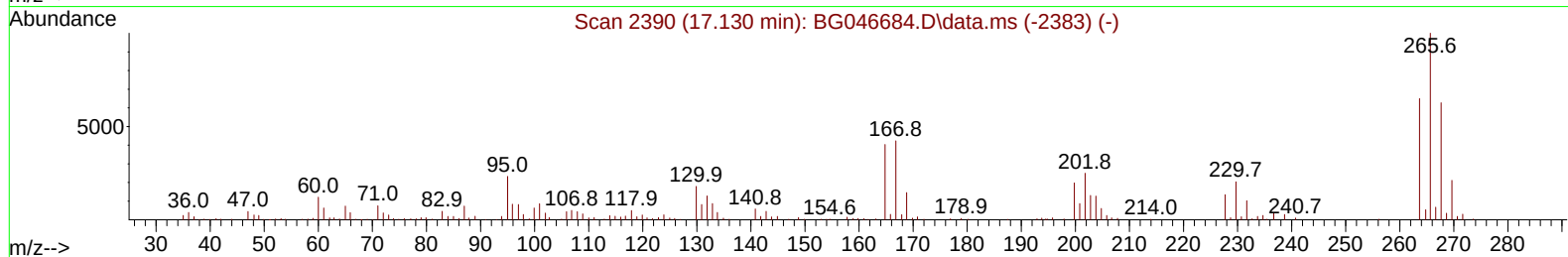
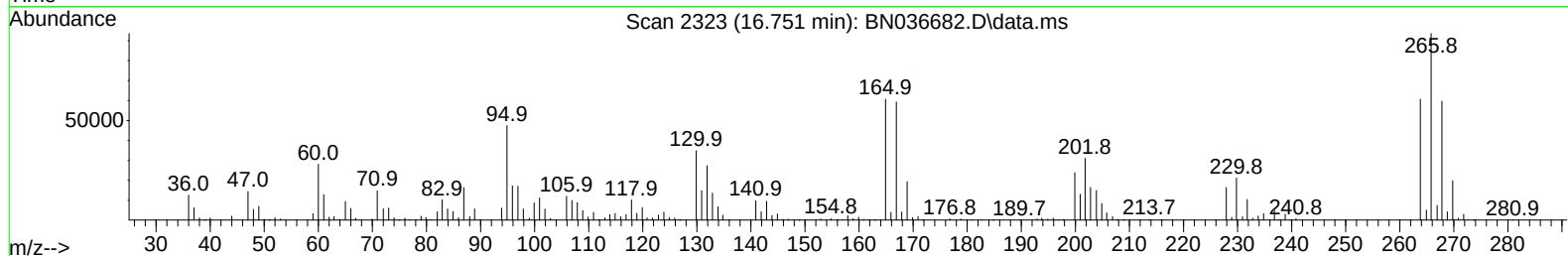
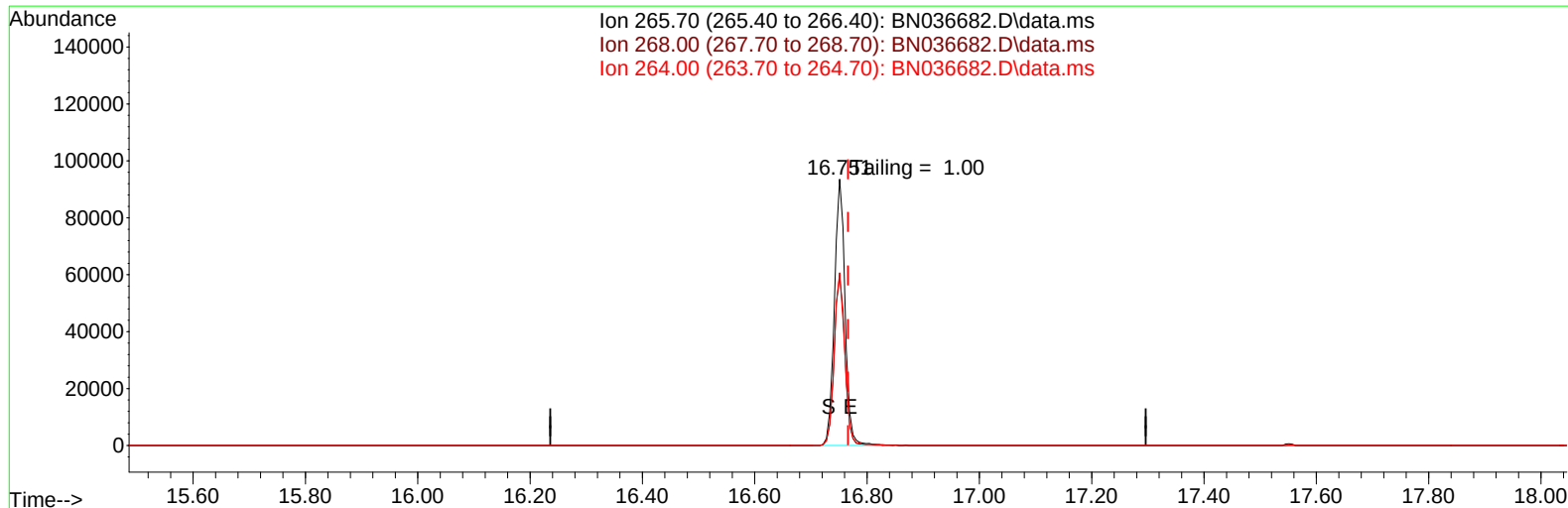
AutoFind: Scans 2458, 2459, 2460; Background Corrected with Scan 2451

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	69.5	95037	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	58.3	79763	PASS
70	69	0.00	2	0.6	478	PASS
127	198	10	80	53.4	73040	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	136773	PASS
199	198	5	9	6.8	9344	PASS
275	198	10	60	23.7	32411	PASS
365	198	1	100	4.2	5709	PASS
441	198	0.01	100	9.4	12840	PASS
442	442	50	100	100.0	75131	PASS
443	442	15	24	18.7	14045	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
Data File : BN036682.D
Acq On : 18 Mar 2025 08:42
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 18 13:19:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Mar 18 01:27:23 2025
Response via : Initial Calibration



TIC: BN036682.D\data.ms

(70) Pentachlorophenol (C)

16.751min (-0.015) 15755.93 ng

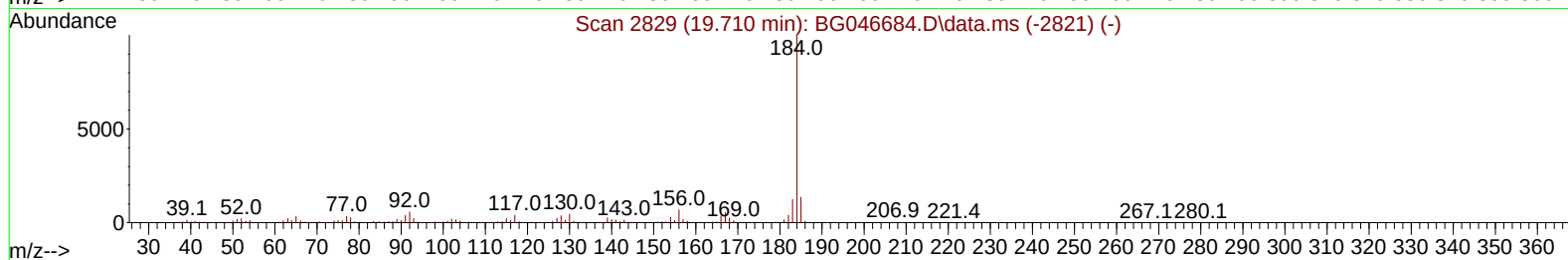
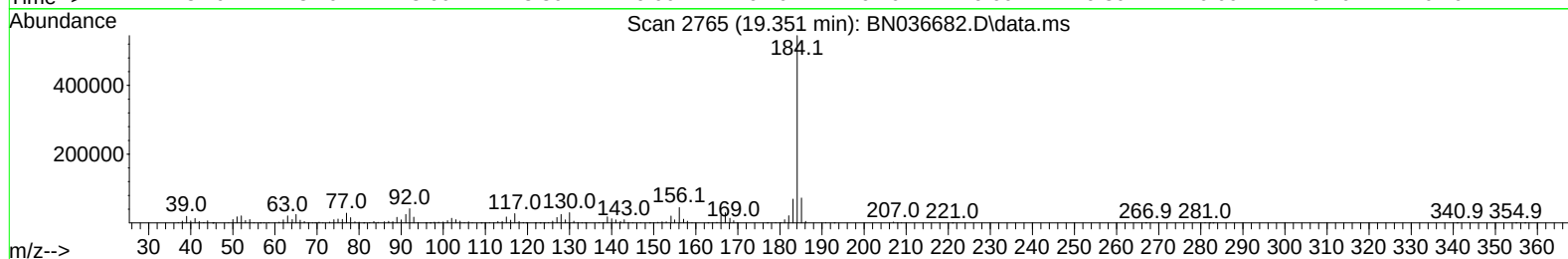
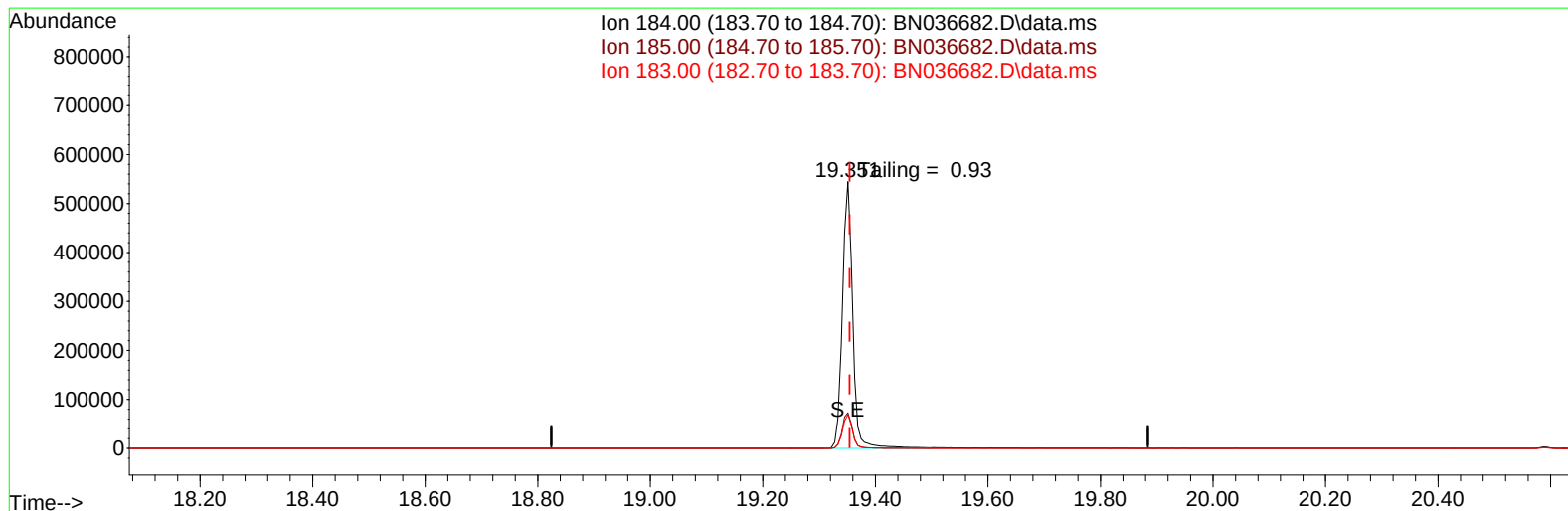
response 123154

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.71
264.00	61.60	64.87
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
Data File : BN036682.D
Acq On : 18 Mar 2025 08:42
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 18 13:19:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Mar 18 01:27:23 2025
Response via : Initial Calibration



TIC: BN036682.D\data.ms

(77) Benzidine

19.351min (-0.003) 0.00 ng

response 688778

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.35
183.00	13.20	12.70
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
3/18/2025	BNA_N	<u>BN036682.D</u>
Compound Name	Response	Retention Time
DDT	424064	20.592
DDD	5924	20.151
DDE	402	19.639
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
6326	430390	1.47

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:	PB167159BL	SDG No.:	Q1582
Lab Sample ID:	PB167159BL	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
BN036684.D	1	03/17/25 08:48	03/18/25 09:57	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		86%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		105%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		91%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.25		53 - 106		63%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		107%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1700	7.717				
1146-65-2	Naphthalene-d8	3700	10.52				
15067-26-2	Acenaphthene-d10	2060	14.366				
1517-22-2	Phenanthrene-d10	3780	17.124				
1719-03-5	Chrysene-d12	2640	21.304				
1520-96-3	Perylene-d12	2440	23.549				

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\BN031825\
Data File : BN036684.D
Acq On : 18 Mar 2025 09:57
Operator : RC/JU
Sample : PB167159BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167159BL

Quant Time: Mar 18 10:42:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1698	0.400	ng	0.00
7) Naphthalene-d8	10.520	136	3698	0.400	ng	0.01
13) Acenaphthene-d10	14.366	164	2056	0.400	ng	0.00
19) Phenanthrene-d10	17.124	188	3776	0.400	ng	# 0.01
29) Chrysene-d12	21.304	240	2642	0.400	ng	0.00
35) Perylene-d12	23.549	264	2442	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	1752	0.443	ng	0.00
5) Phenol-d6	6.894	99	1764	0.361	ng	0.00
8) Nitrobenzene-d5	8.875	82	1459	0.363	ng	0.00
11) 2-Methylnaphthalene-d10	12.126	152	1897	0.345	ng	0.02
14) 2,4,6-Tribromophenol	15.883	330	280	0.300	ng	0.03
15) 2-Fluorobiphenyl	13.009	172	3010	0.252	ng	0.02
27) Fluoranthene-d10	19.146	212	4054	0.419	ng	0.00
31) Terphenyl-d14	19.745	244	2710	0.428	ng	0.00

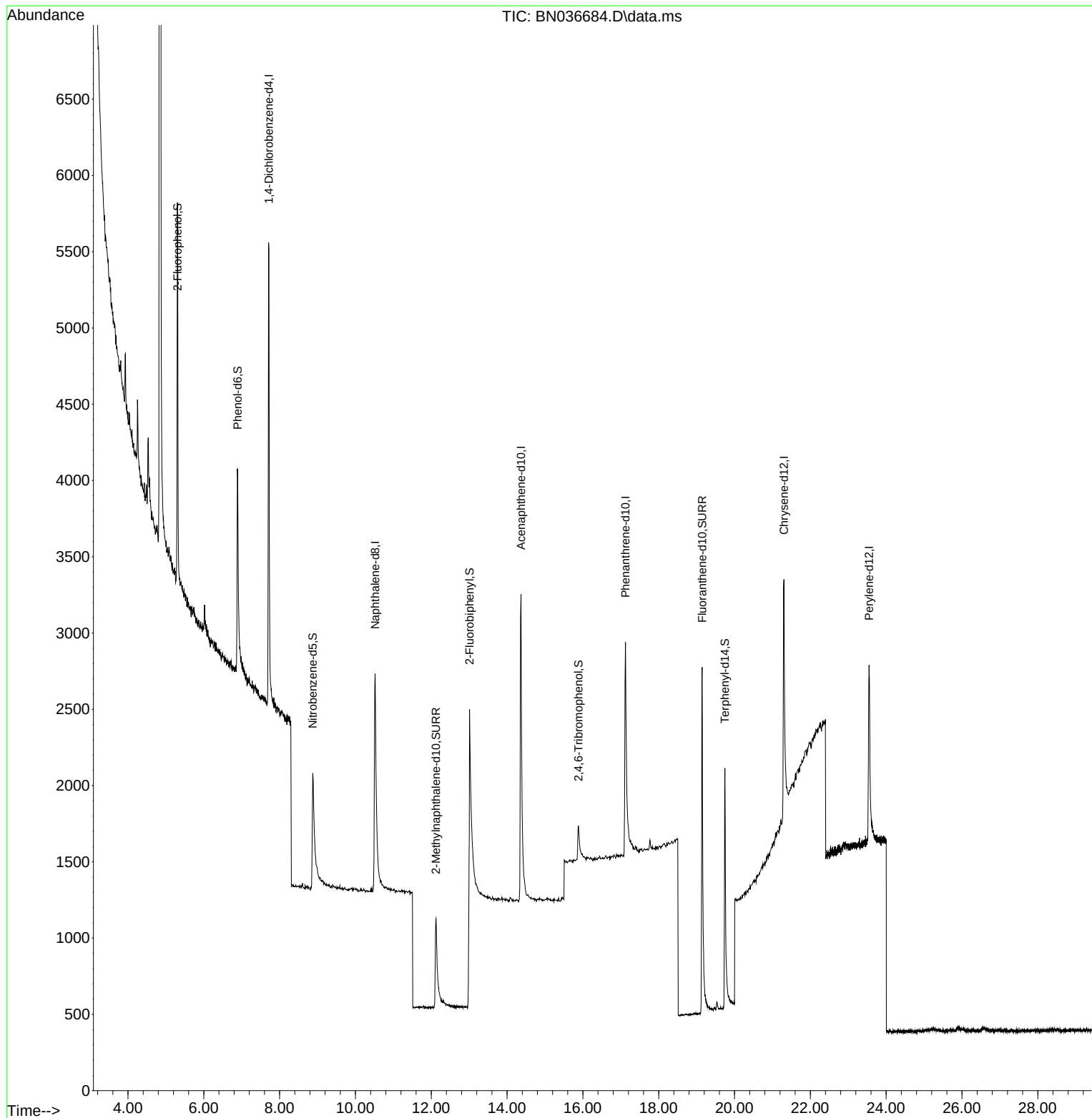
Target Compounds	Qvalue
------------------	--------

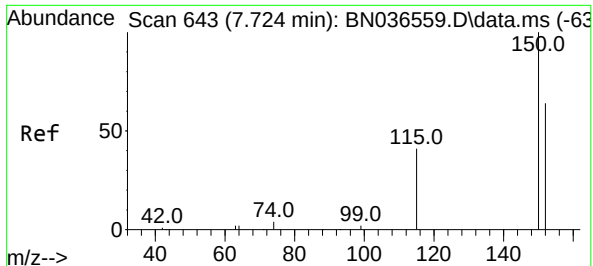
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
Data File : BN036684.D
Acq On : 18 Mar 2025 09:57
Operator : RC/JU
Sample : PB167159BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167159BL

Quant Time: Mar 18 10:42:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

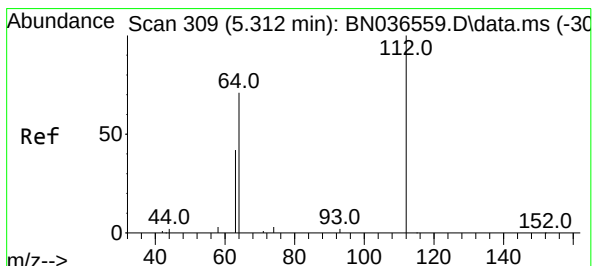
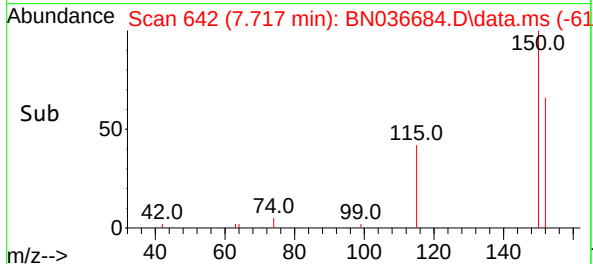
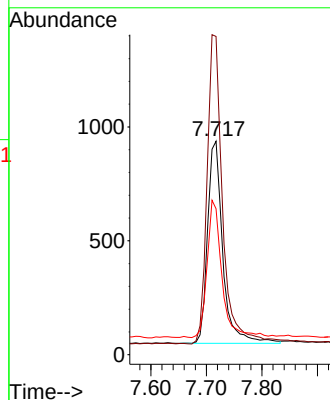
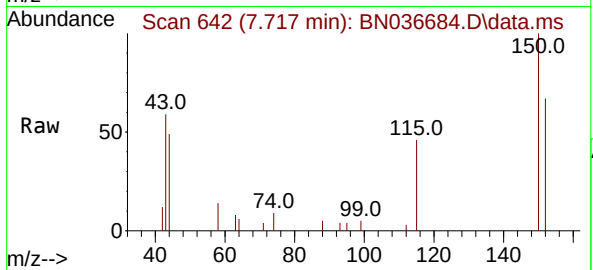




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

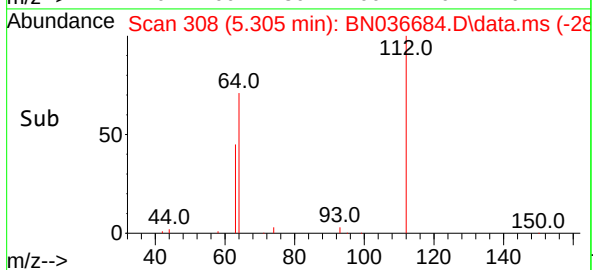
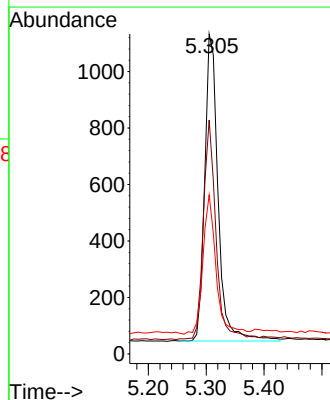
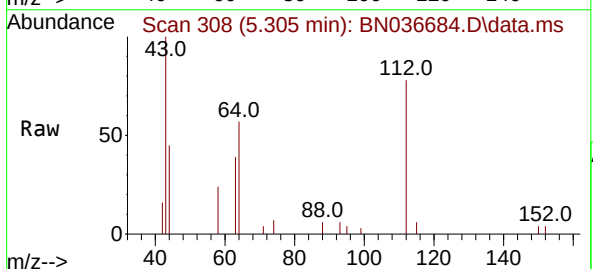
Instrument :
BNA_N
ClientSampleId :
PB167159BL

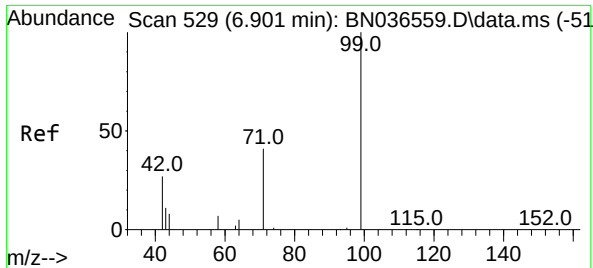
Tgt Ion:152 Resp: 1698
Ion Ratio Lower Upper
152 100
150 149.1 123.7 185.5
115 68.4 54.3 81.5



#4
2-Fluorophenol
Concen: 0.443 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.007 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

Tgt Ion:112 Resp: 1752
Ion Ratio Lower Upper
112 100
64 67.7 53.1 79.7
63 44.2 31.8 47.8

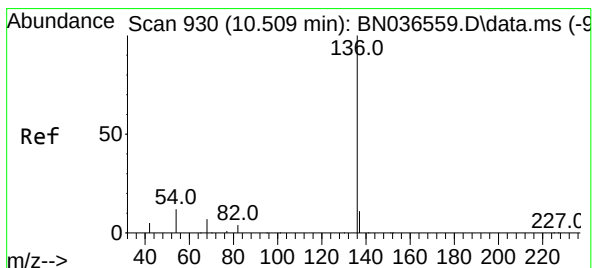
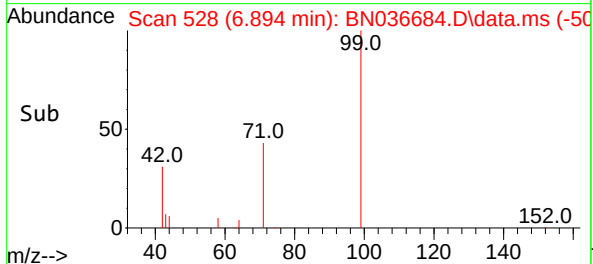
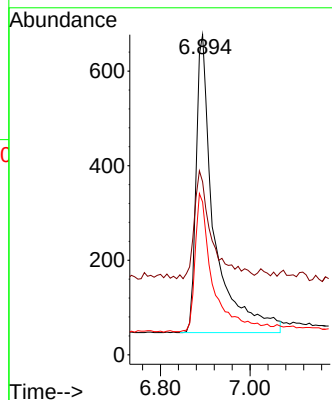
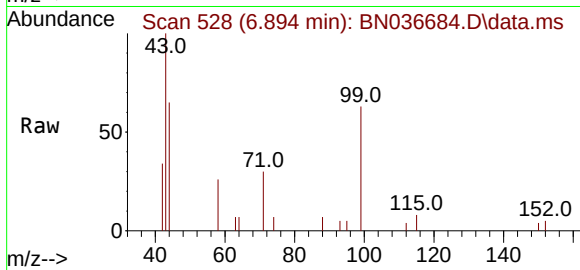




#5
Phenol-d6
Concen: 0.361 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

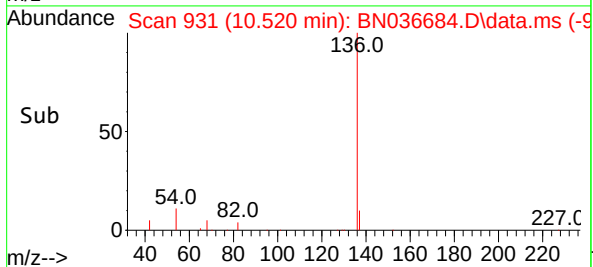
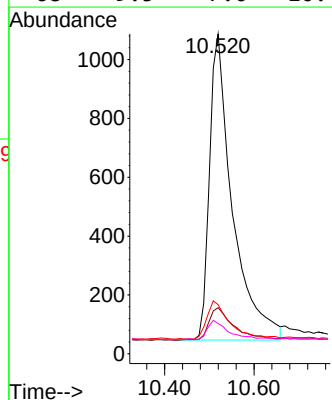
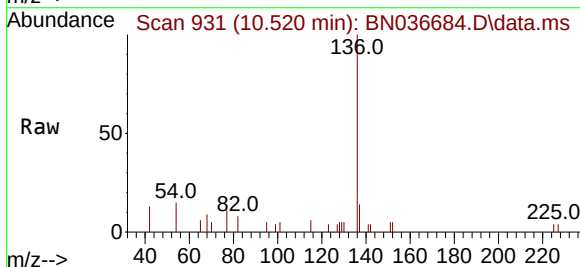
Instrument :
BNA_N
ClientSampleId :
PB167159BL

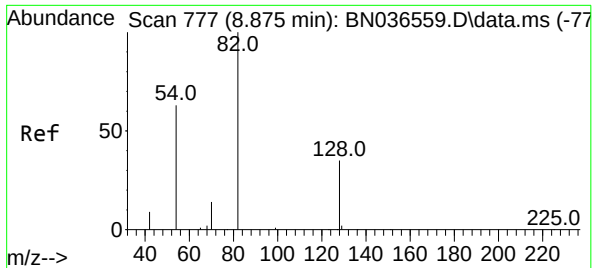
Tgt Ion: 99 Resp: 1764
Ion Ratio Lower Upper
99 100
42 35.0 26.5 39.7
71 46.0 34.1 51.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.520 min Scan# 931
Delta R.T. 0.011 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

Tgt Ion: 136 Resp: 3698
Ion Ratio Lower Upper
136 100
137 14.4 10.3 15.5
54 15.4 11.5 17.3
68 9.5 7.0 10.4

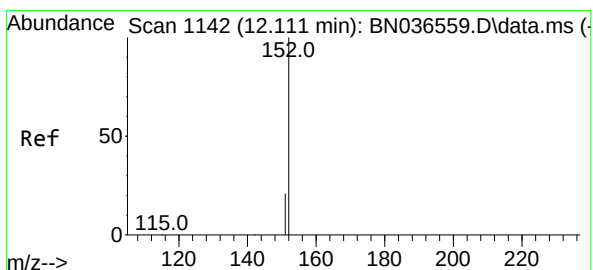
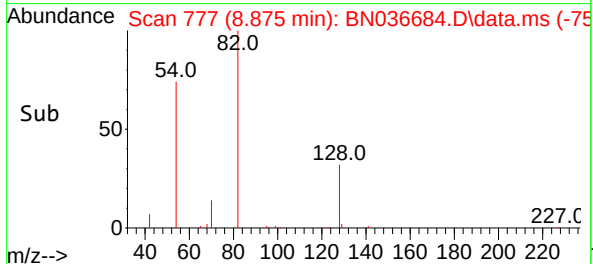
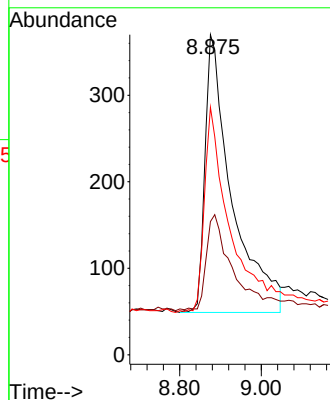
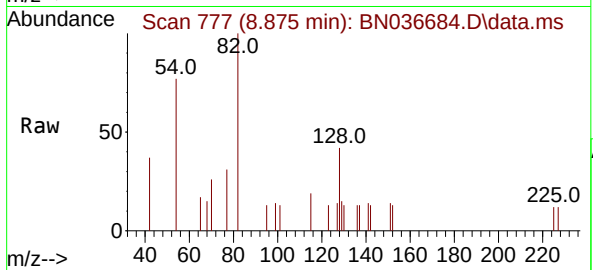




#8
Nitrobenzene-d5
Concen: 0.363 ng
RT: 8.875 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

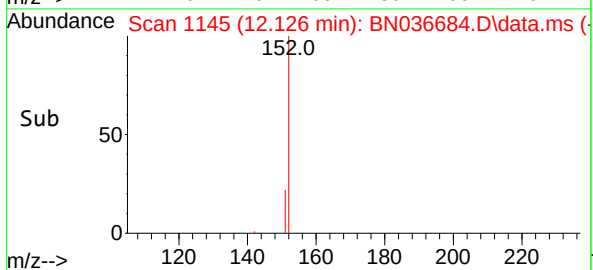
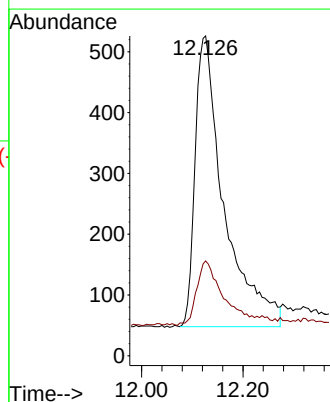
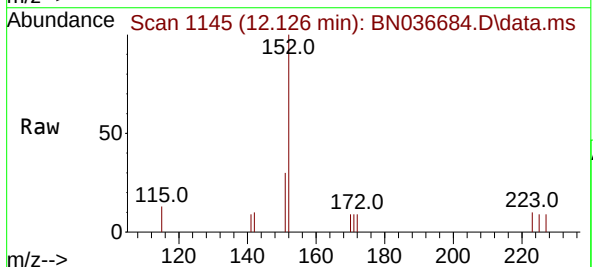
Instrument :
BNA_N
ClientSampleId :
PB167159BL

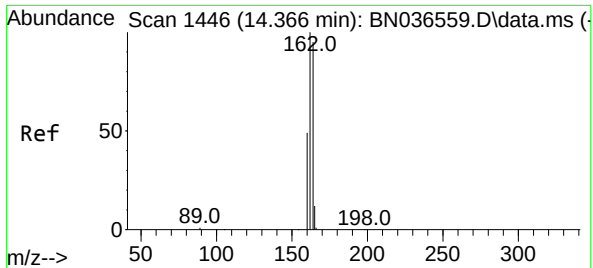
Tgt Ion	Ratio	Lower	Upper
82	100		
128	41.6	30.6	45.8
54	77.3	52.2	78.4



#11
2-Methylnaphthalene-d10
Concen: 0.345 ng
RT: 12.126 min Scan# 1145
Delta R.T. 0.015 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.5	17.0	25.6

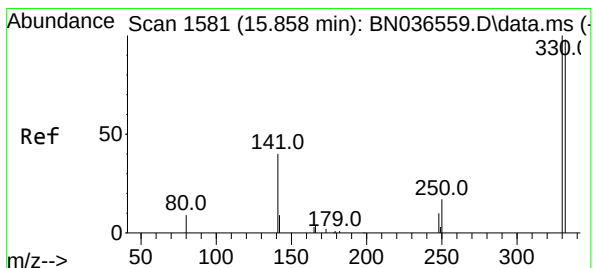
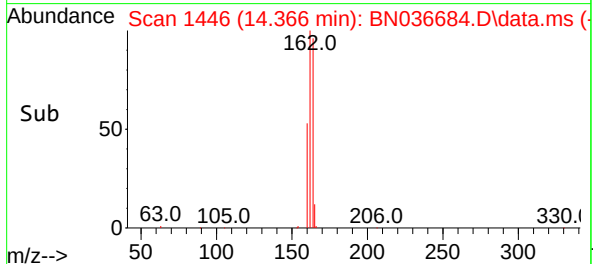
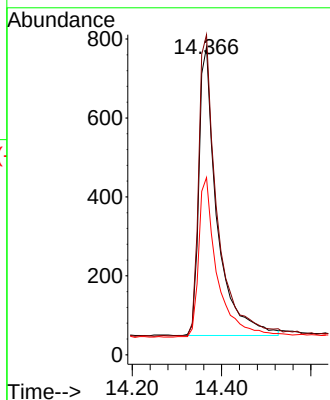
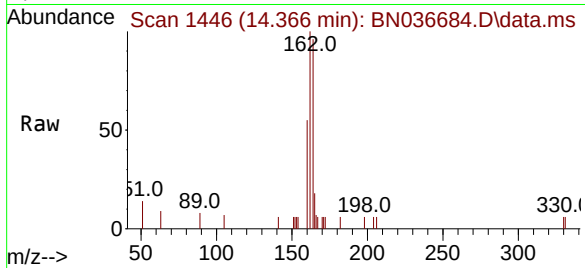




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

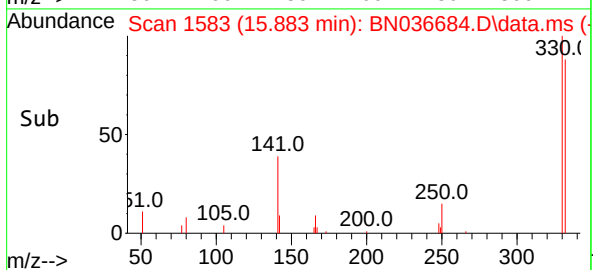
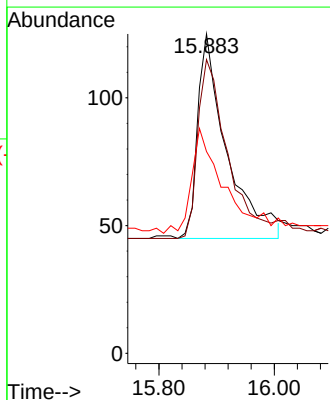
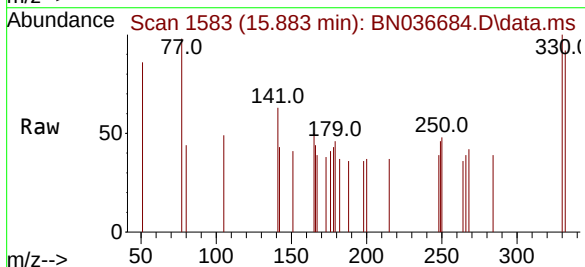
Instrument :
BNA_N
ClientSampleId :
PB167159BL

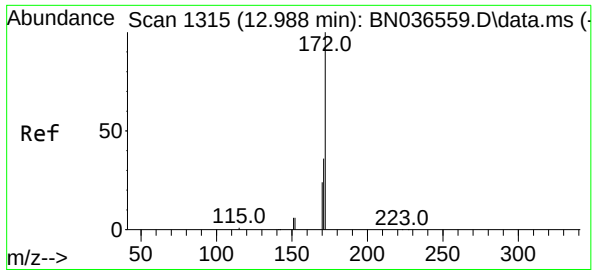
Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.0	84.2	126.2
160	57.6	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.300 ng
RT: 15.883 min Scan# 1583
Delta R.T. 0.025 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

Tgt Ion	Ratio	Lower	Upper
330	100		
332	90.0	75.2	112.8
141	56.8	43.4	65.2

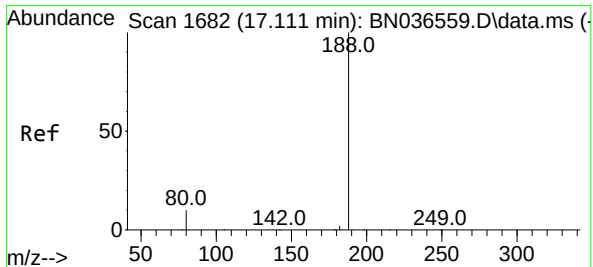
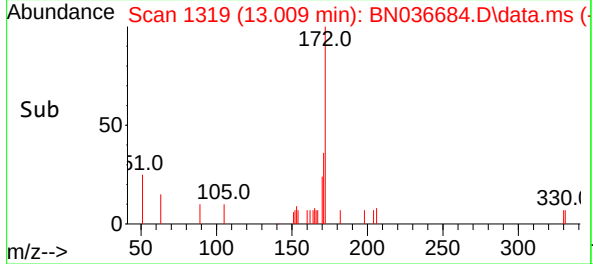
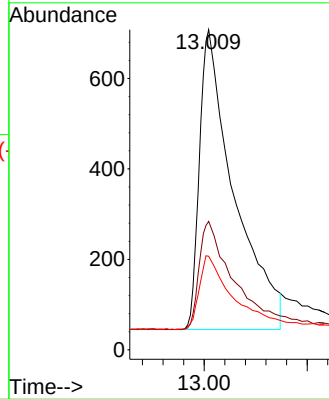
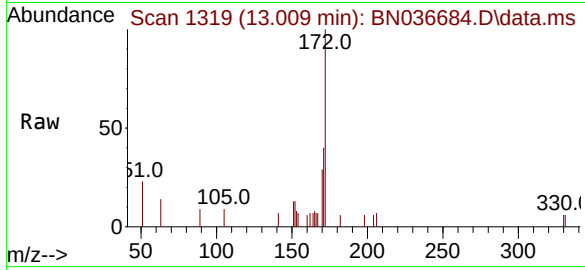




#15
2-Fluorobiphenyl
Concen: 0.252 ng
RT: 13.009 min Scan# 1319
Delta R.T. 0.020 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

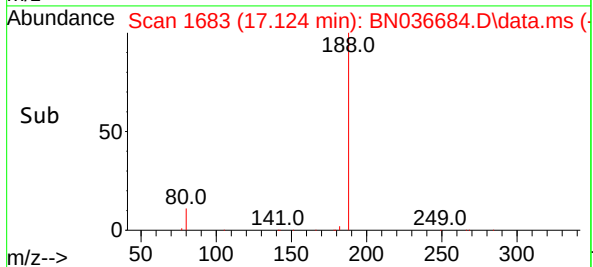
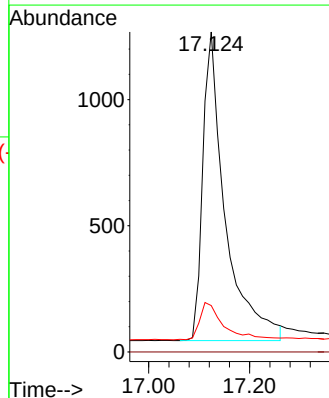
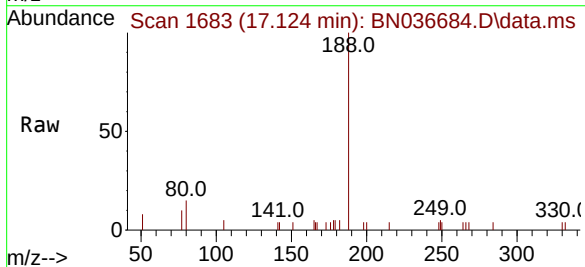
Instrument :
BNA_N
ClientSampleId :
PB167159BL

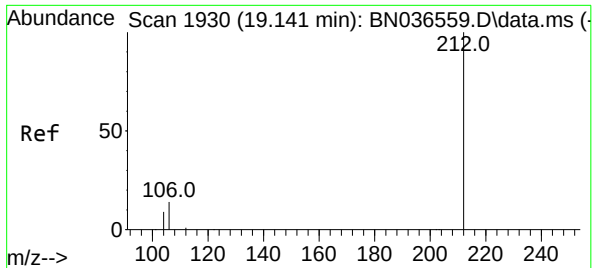
Tgt Ion:	172	Resp:	3010
Ion	Ratio	Lower	Upper
172	100		
171	40.1	29.5	44.3
170	29.2	20.2	30.4



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.013 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

Tgt Ion:	188	Resp:	3776
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.5	8.8	13.2

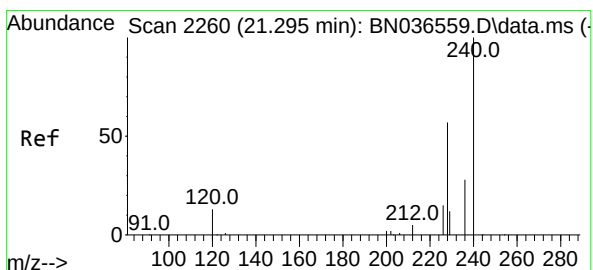
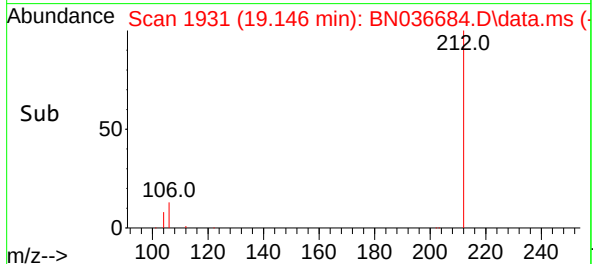
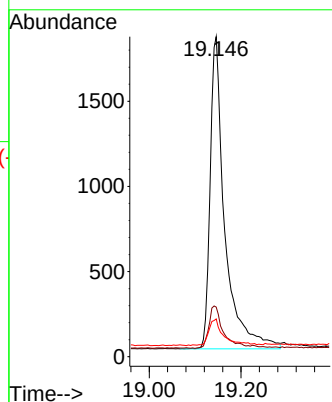
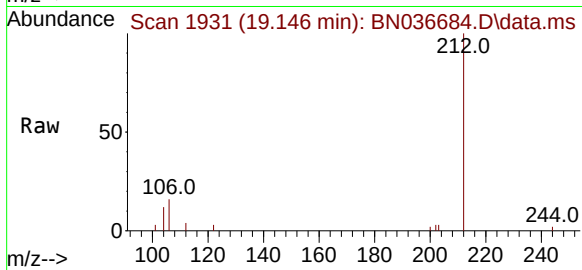




#27
Fluoranthene-d10
Concen: 0.419 ng
RT: 19.146 min Scan# 1931
Delta R.T. 0.005 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

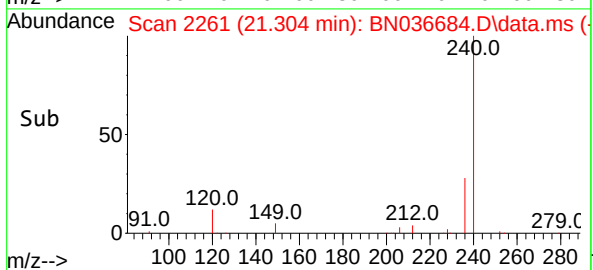
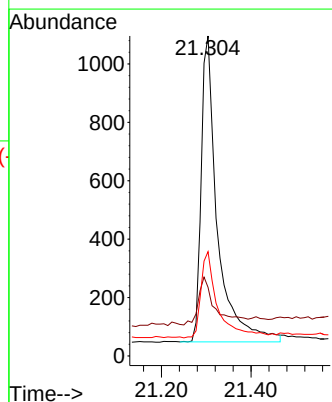
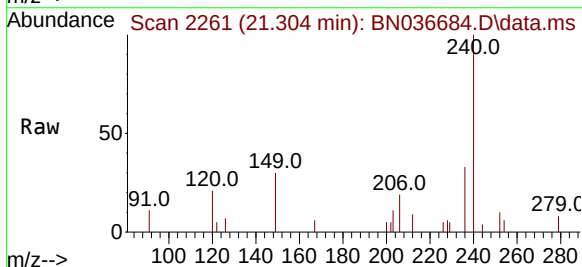
Instrument :
BNA_N
ClientSampleId :
PB167159BL

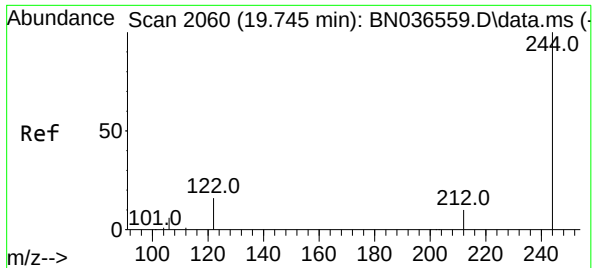
Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.4	11.8	17.6
104	9.0	7.3	10.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.304 min Scan# 2261
Delta R.T. 0.009 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

Tgt Ion	Ratio	Lower	Upper
240	100		
120	21.4	14.6	22.0
236	32.6	24.1	36.1

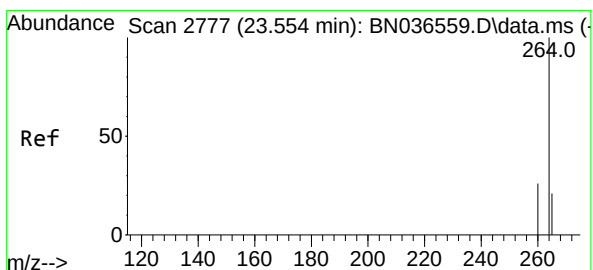
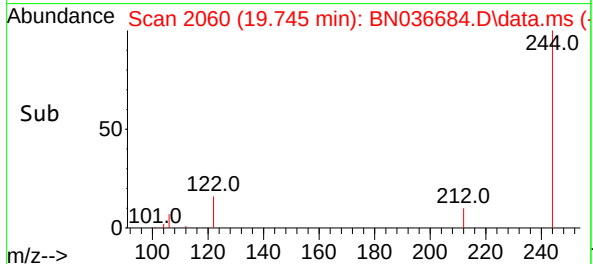
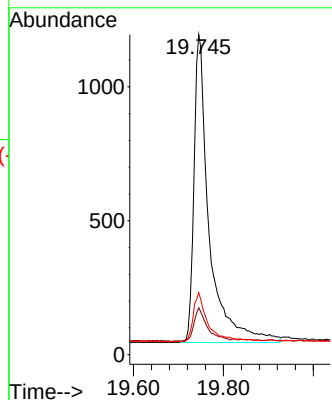
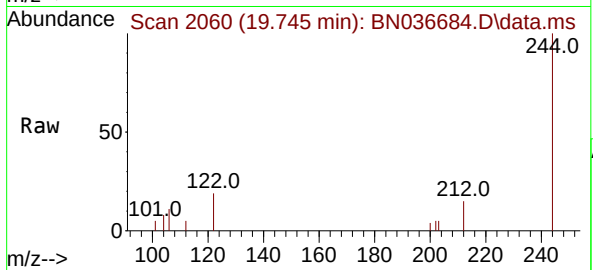




#31
Terphenyl-d14
Concen: 0.428 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

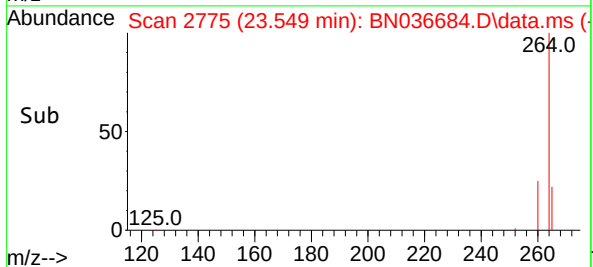
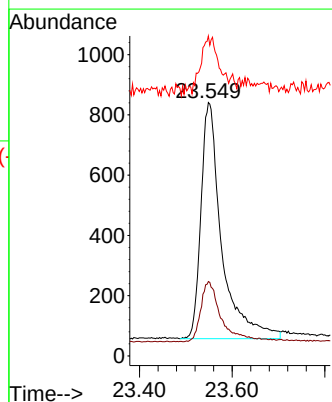
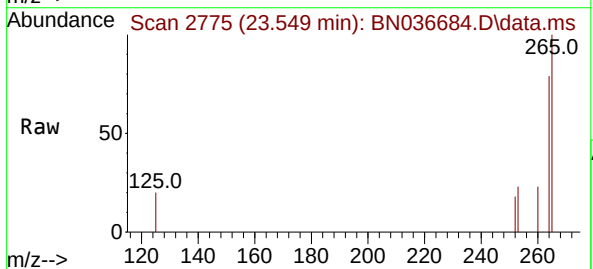
Instrument :
BNA_N
ClientSampleId :
PB167159BL

Tgt Ion:244 Resp: 2710
Ion Ratio Lower Upper
244 100
212 14.6 9.6 14.4#
122 19.4 13.9 20.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.549 min Scan# 2775
Delta R.T. -0.006 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

Tgt Ion:264 Resp: 2442
Ion Ratio Lower Upper
264 100
260 29.4 22.6 33.8
265 126.3 88.1 132.1



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:	PB167159BS	SDG No.:	Q1582
Lab Sample ID:	PB167159BS	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
BN036665.D	1	03/17/25 08:48	03/17/25 18:31	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.37		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.43		30 - 150		108%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		85%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		92%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		53 - 106		103%	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	1650	7.717				
1146-65-2	Naphthalene-d8	3860	10.498				
15067-26-2	Acenaphthene-d10	1950	14.356				
1517-22-2	Phenanthrene-d10	3290	17.099				
1719-03-5	Chrysene-d12	1970	21.295				
1520-96-3	Perylene-d12	1880	23.552				

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\BN031725\
 Data File : BN036665.D
 Acq On : 17 Mar 2025 18:31
 Operator : RC/JU
 Sample : PB167159BS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB167159BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/18/2025
 Supervised By :Jagrut Upadhyay 03/18/2025

Quant Time: Mar 18 00:55:04 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1650	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	3863	0.400	ng	-0.01
13) Acenaphthene-d10	14.356	164	1951	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	3290	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	1972	0.400	ng	0.00
35) Perylene-d12	23.552	264	1878	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1561	0.406	ng	0.00
5) Phenol-d6	6.894	99	1791	0.377	ng	0.00
8) Nitrobenzene-d5	8.865	82	1547	0.368	ng	-0.01
11) 2-Methylnaphthalene-d10	12.096	152	2492m	0.434	ng	-0.01
14) 2,4,6-Tribromophenol	15.858	330	287	0.324	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	4691	0.413	ng	0.00
27) Fluoranthene-d10	19.137	212	2860	0.339	ng	0.00
31) Terphenyl-d14	19.745	244	1935	0.410	ng	0.00
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.239	88	682	0.373	ng	# 23
3) n-Nitrosodimethylamine	3.550	42	1682	0.454	ng	93
6) bis(2-Chloroethyl)ether	7.147	93	1884	0.384	ng	97
9) Naphthalene	10.552	128	4632	0.408	ng	99
10) Hexachlorobutadiene	10.840	225	1141	0.427	ng	# 98
12) 2-Methylnaphthalene	12.172	142	2867	0.397	ng	98
16) Acenaphthylene	14.078	152	4194	0.456	ng	99
17) Acenaphthene	14.420	154	2595	0.431	ng	99
18) Fluorene	15.403	166	3260	0.400	ng	99
20) 4,6-Dinitro-2-methylph...	15.510	198	204	0.389	ng	91
21) 4-Bromophenyl-phenylether	16.305	248	921	0.447	ng	89
22) Hexachlorobenzene	16.416	284	1125	0.452	ng	93
23) Atrazine	16.578	200	729	0.441	ng	# 89
24) Pentachlorophenol	16.764	266	690	0.608	ng	99
25) Phenanthrene	17.149	178	4250	0.431	ng	100
26) Anthracene	17.236	178	3990	0.448	ng	99
28) Fluoranthene	19.169	202	4249	0.383	ng	98
30) Pyrene	19.531	202	4301	0.446	ng	99
32) Benzo(a)anthracene	21.277	228	2770	0.404	ng	98
33) Chrysene	21.331	228	3606	0.481	ng	98
34) Bis(2-ethylhexyl)phtha...	21.214	149	1852	0.379	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.829	276	3428	0.506	ng	# 91
37) Benzo(b)fluoranthene	22.870	252	2702	0.395	ng	96
38) Benzo(k)fluoranthene	22.914	252	3373m	0.470	ng	
39) Benzo(a)pyrene	23.452	252	2835	0.493	ng	96
40) Dibenzo(a,h)anthracene	25.850	278	2578	0.489	ng	93
41) Benzo(g,h,i)perylene	26.519	276	2857	0.473	ng	97

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036665.D
Acq On : 17 Mar 2025 18:31
Operator : RC/JU
Sample : PB167159BS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB167159BS

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/18/2025

Supervised By :Jagrut Upadhyay 03/18/2025

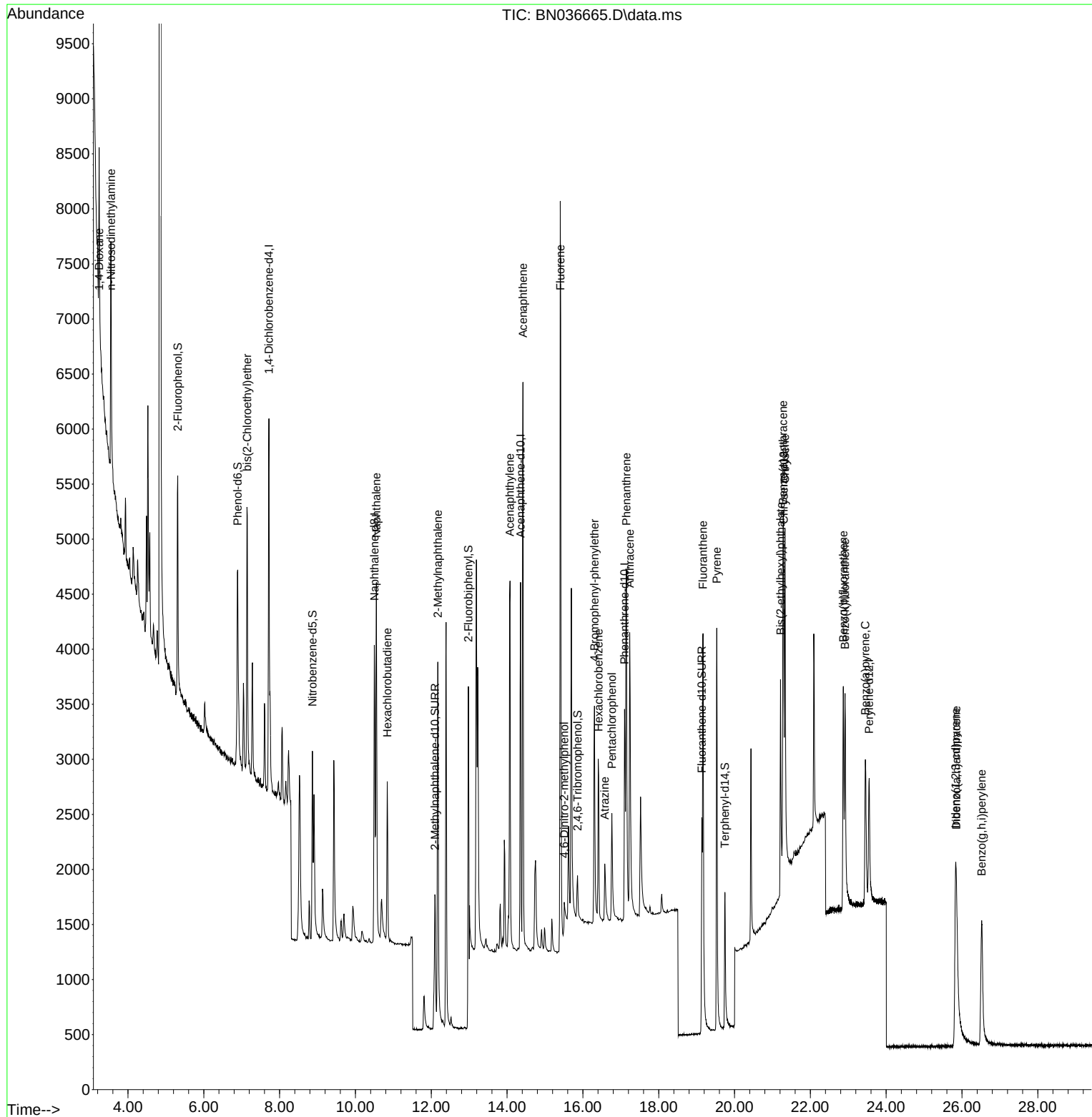
Quant Time: Mar 18 00:55:04 2025

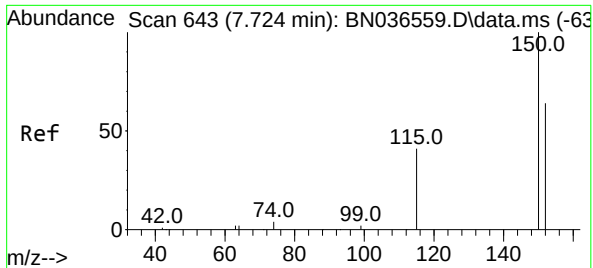
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Mar 10 16:06:28 2025

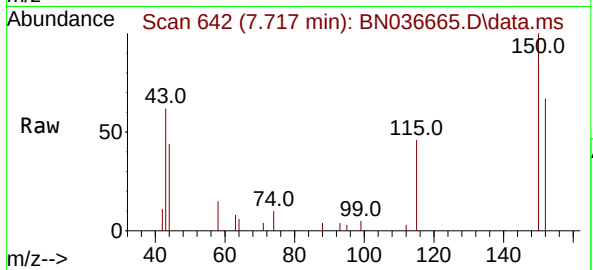
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

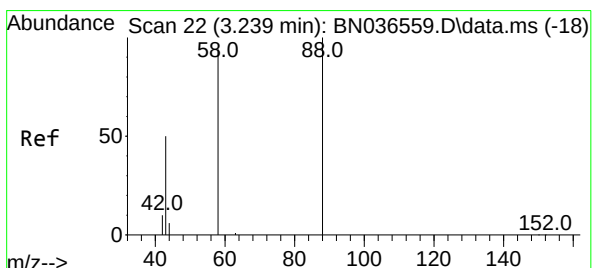
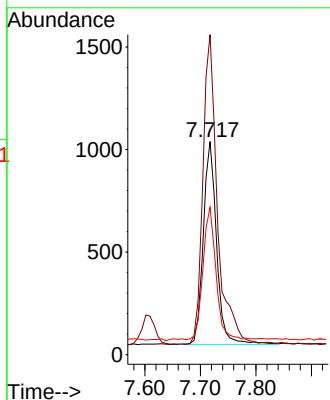
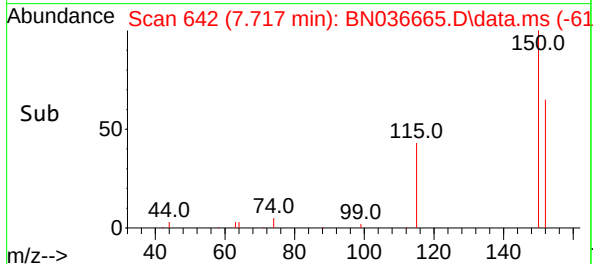
Instrument :
BNA_N
ClientSampleId :
PB167159BS



Tgt Ion:152 Resp: 1650
Ion Ratio Lower Upper
152 100
150 150.1 123.7 185.5
115 69.1 54.3 81.5

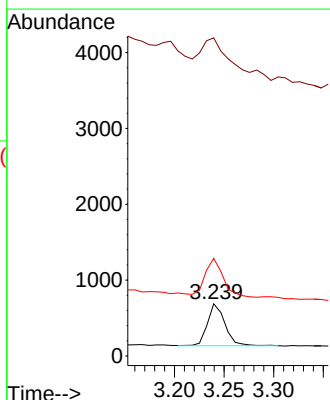
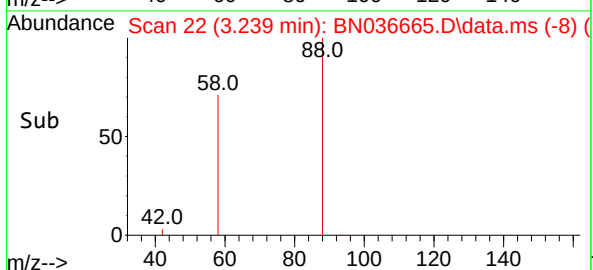
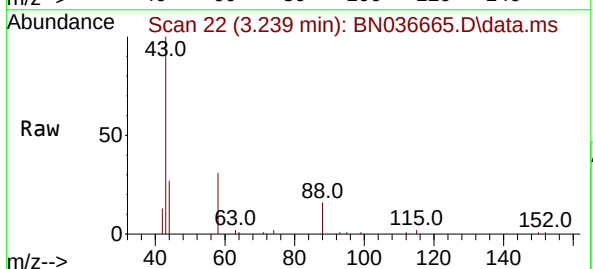
Manual Integrations
APPROVED

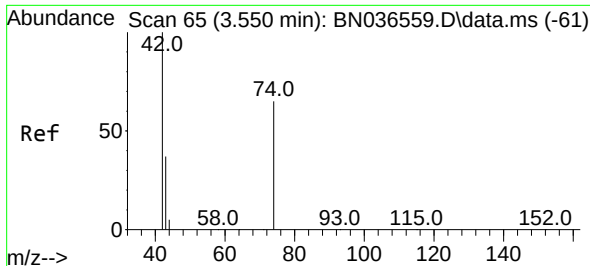
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#2
1,4-Dioxane
Concen: 0.373 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion: 88 Resp: 682
Ion Ratio Lower Upper
88 100
43 177.0 37.8 56.8#
58 94.6 67.4 101.2





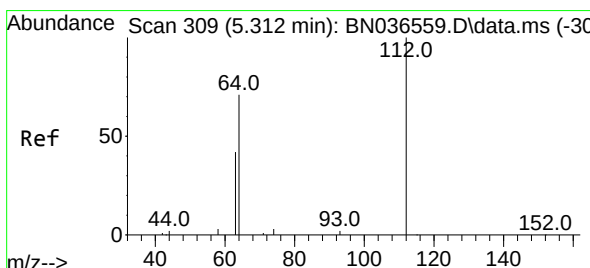
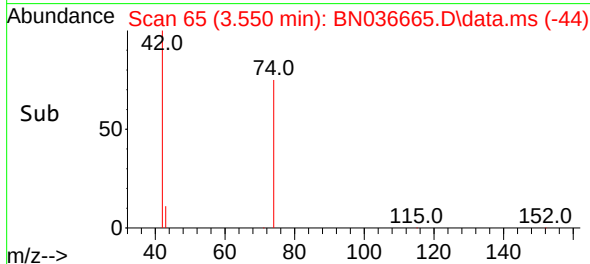
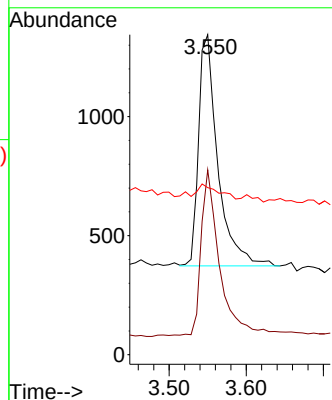
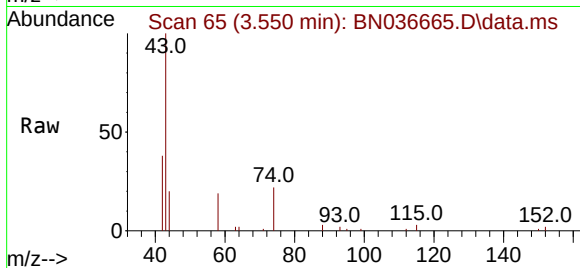
#3
n-Nitrosodimethylamine
Concen: 0.454 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Tgt Ion: 42 Resp: 168
Ion Ratio Lower Upper
42 100
74 69.5 60.6 90.8
44 7.4 6.3 9.5

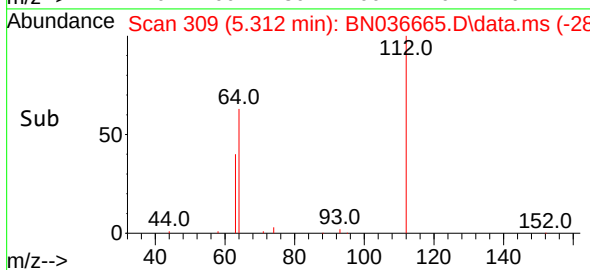
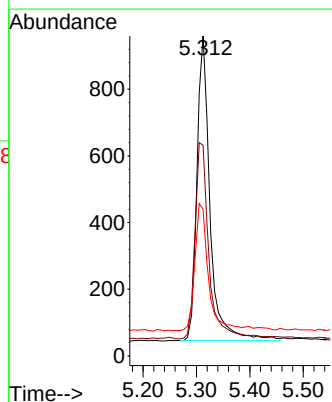
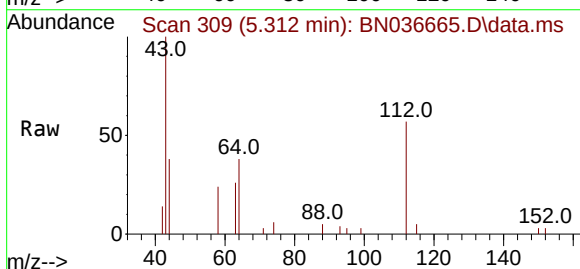
Manual Integrations
APPROVED

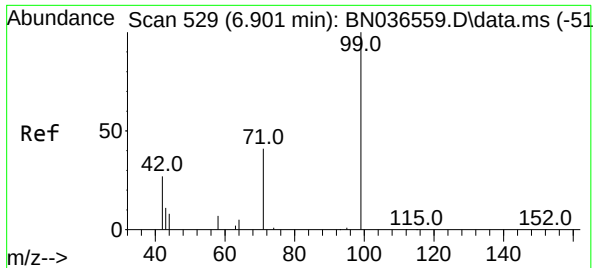
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#4
2-Fluorophenol
Concen: 0.406 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

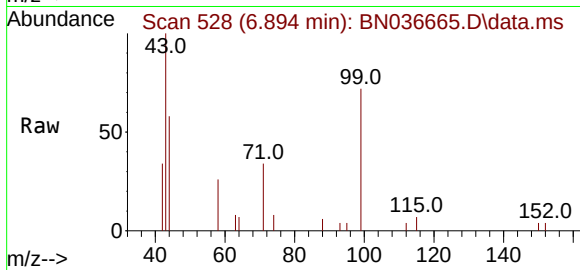
Tgt Ion:112 Resp: 1561
Ion Ratio Lower Upper
112 100
64 68.9 53.1 79.7
63 42.5 31.8 47.8





#5
Phenol-d6
Concen: 0.377 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

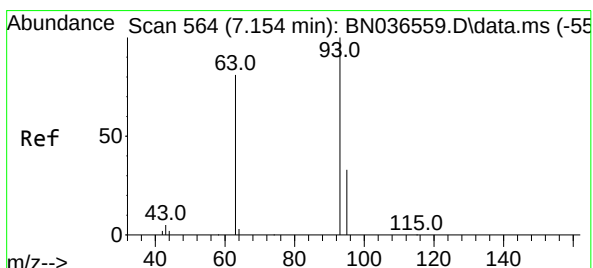
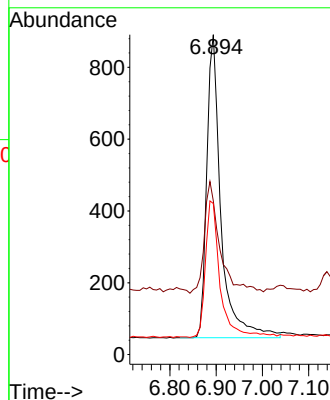
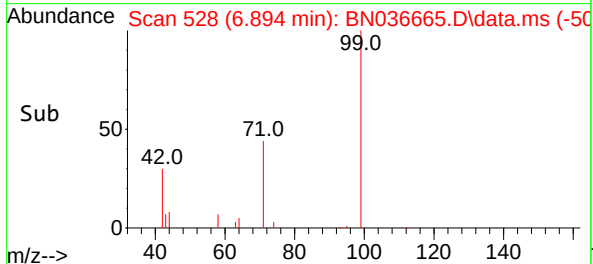
Instrument :
BNA_N
ClientSampleId :
PB167159BS



Tgt Ion: 99 Resp: 179
Ion Ratio Lower Upper
99 100
42 40.4 26.5 39.7
71 46.6 34.1 51.1

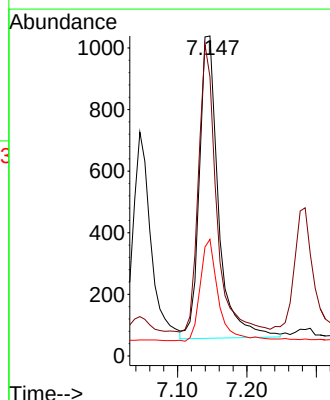
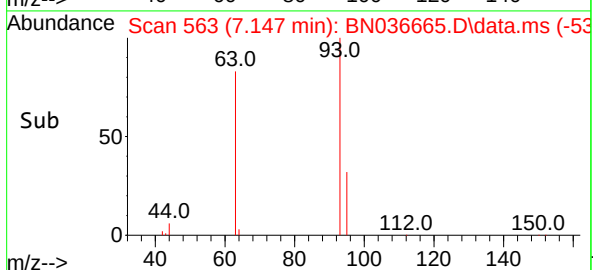
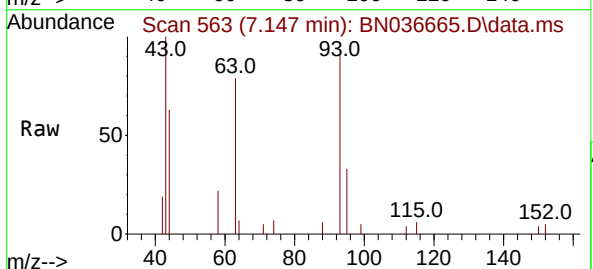
Manual Integrations
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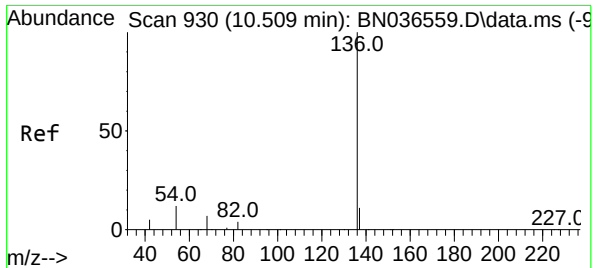
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.384 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

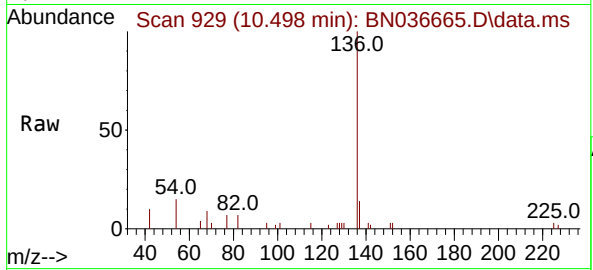
Tgt Ion: 93 Resp: 1884
Ion Ratio Lower Upper
93 100
63 88.0 67.7 101.5
95 31.6 25.6 38.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

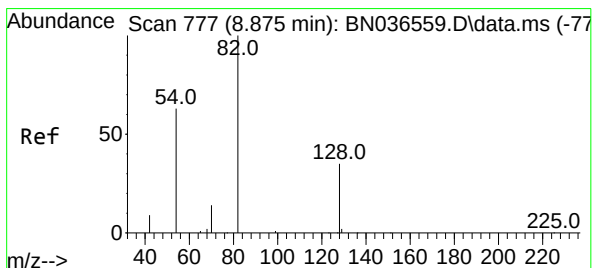
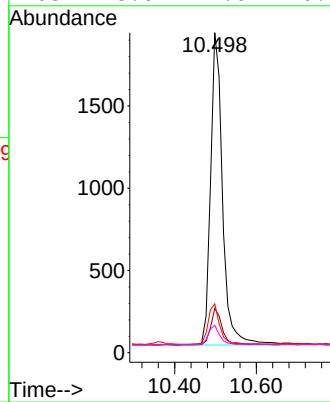
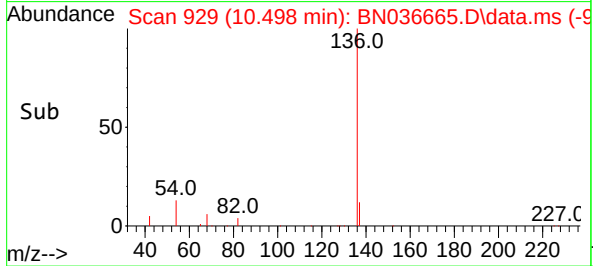
Instrument :
BNA_N
ClientSampleId :
PB167159BS



Tgt Ion: 136 Resp: 386
Ion Ratio Lower Upper
136 100
137 13.8 10.3 15.5
54 15.3 11.5 17.3
68 8.6 7.0 10.4

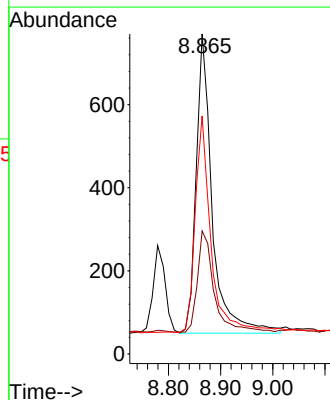
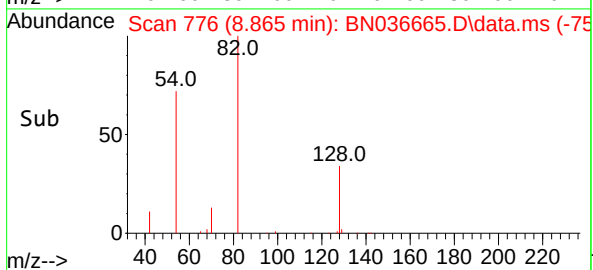
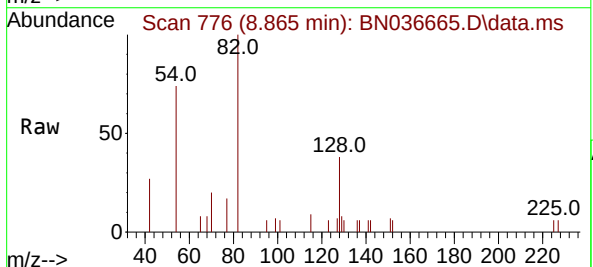
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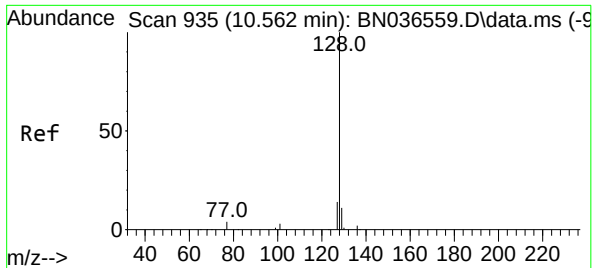
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#8
Nitrobenzene-d5
Concen: 0.368 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

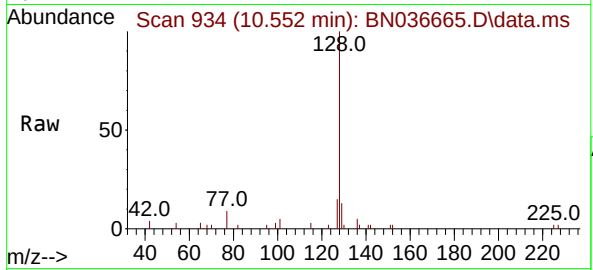
Tgt Ion: 82 Resp: 1547
Ion Ratio Lower Upper
82 100
128 38.4 30.6 45.8
54 74.4 52.2 78.4





#9
Naphthalene
Concen: 0.408 ng
RT: 10.552 min Scan# 91
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

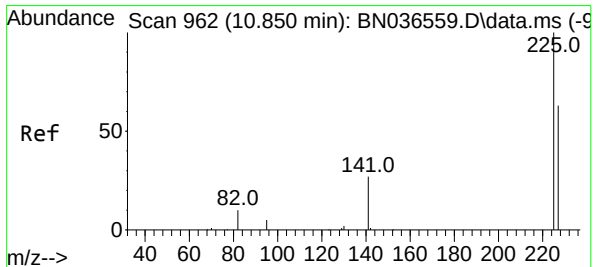
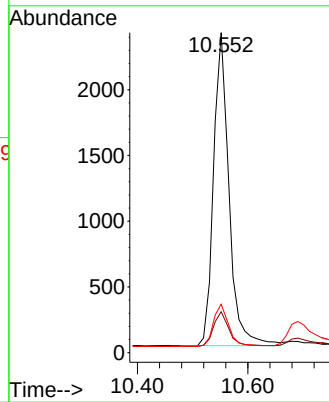
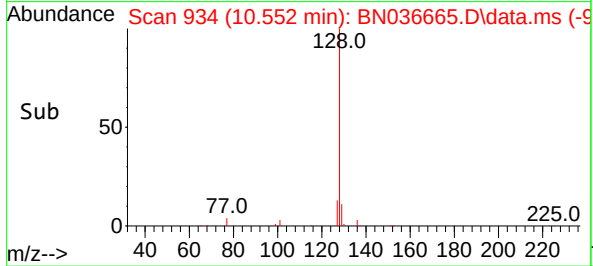
Instrument :
BNA_N
ClientSampleId :
PB167159BS



Tgt Ion:128 Resp: 463
Ion Ratio Lower Upper
128 100
129 12.8 9.8 14.6
127 15.2 11.8 17.8

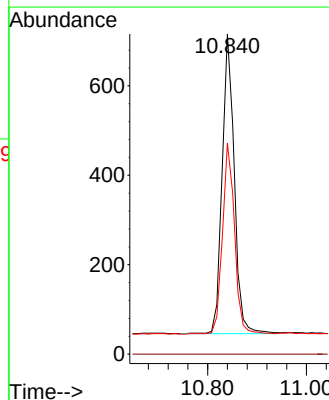
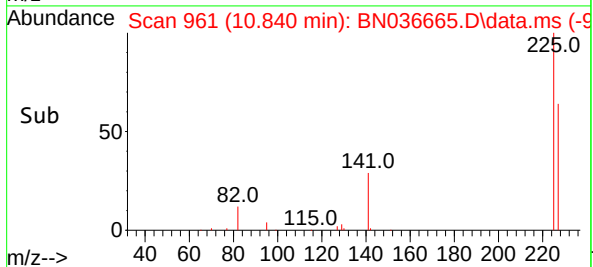
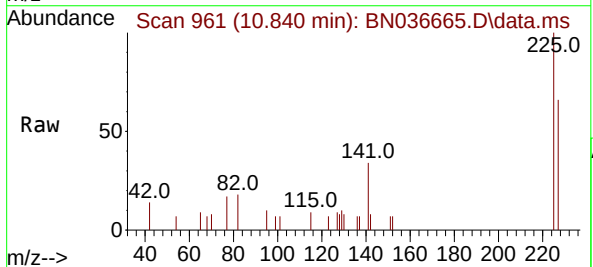
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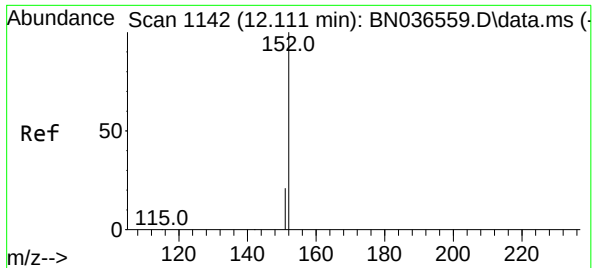
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#10
Hexachlorobutadiene
Concen: 0.427 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

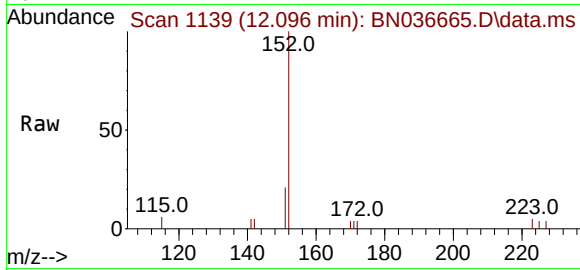
Tgt Ion:225 Resp: 1141
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 51.8 77.8





#11
2-Methylnaphthalene-d10
Concen: 0.434 ng m
RT: 12.096 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

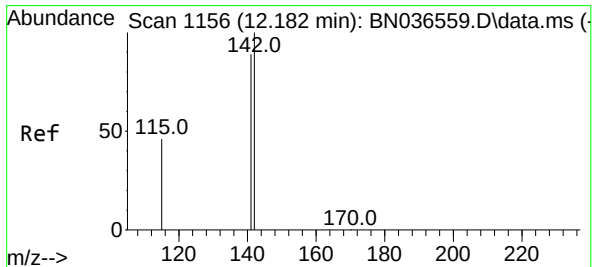
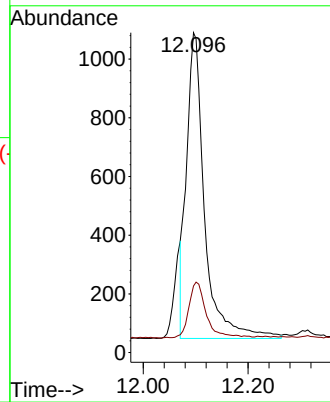
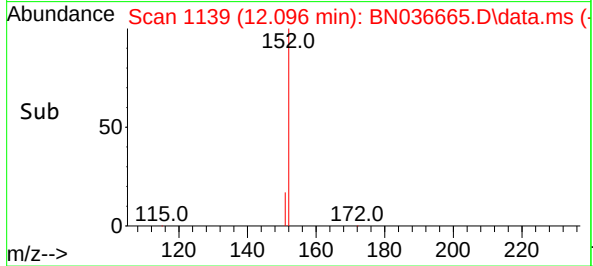
Instrument :
BNA_N
ClientSampleId :
PB167159BS



Tgt Ion:152 Resp: 249
Ion Ratio Lower Upper
152 100
151 17.1 17.0 25.6

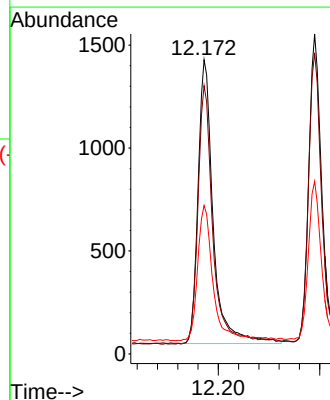
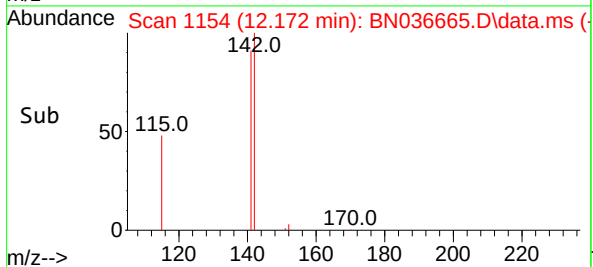
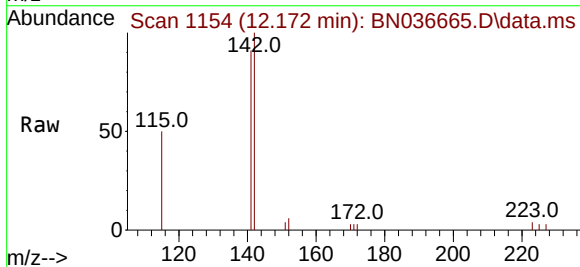
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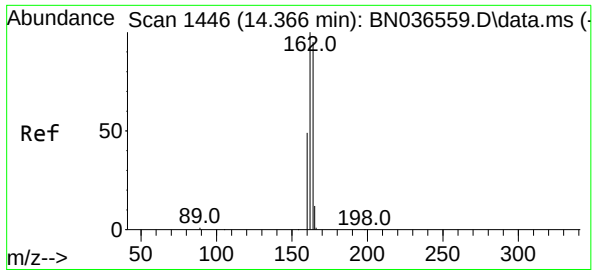
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#12
2-Methylnaphthalene
Concen: 0.397 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

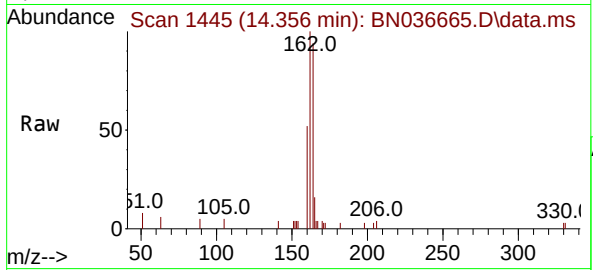
Tgt Ion:142 Resp: 2867
Ion Ratio Lower Upper
142 100
141 91.2 71.7 107.5
115 50.5 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1446
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

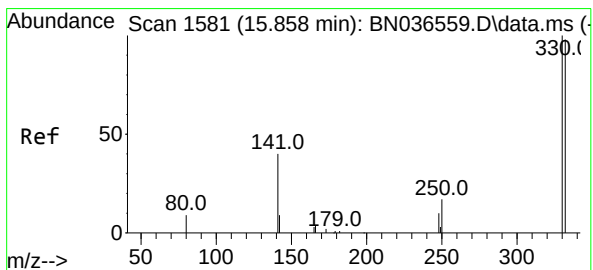
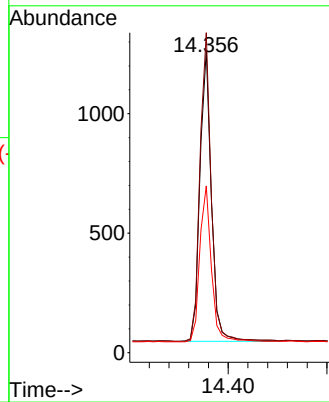
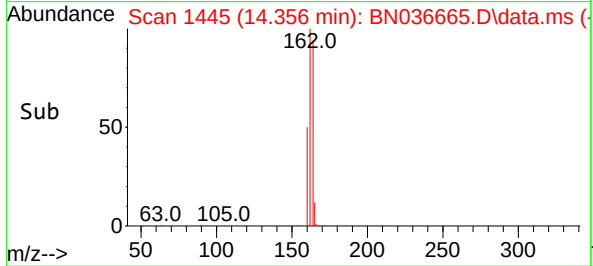
Instrument :
BNA_N
ClientSampleId :
PB167159BS



Tgt Ion:164 Resp: 195
Ion Ratio Lower Upper
164 100
162 105.8 84.2 126.2
160 55.2 42.2 63.2

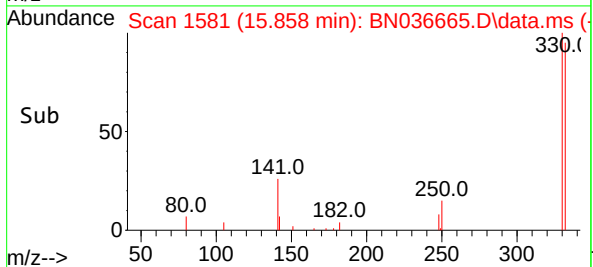
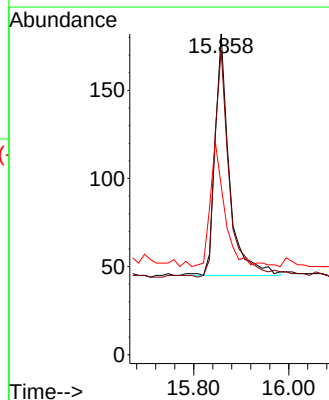
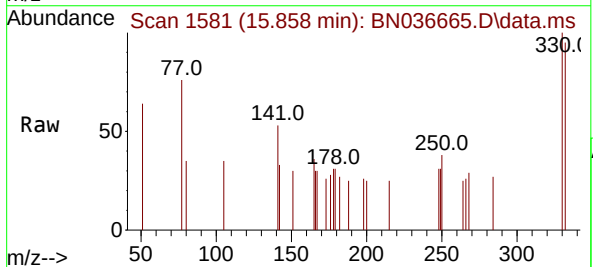
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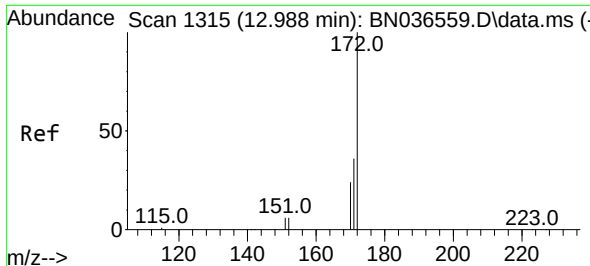
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#14
2,4,6-Tribromophenol
Concen: 0.324 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

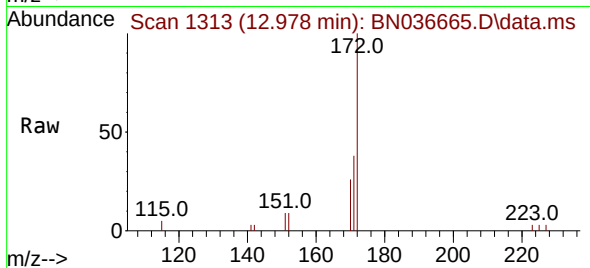
Tgt Ion:330 Resp: 287
Ion Ratio Lower Upper
330 100
332 97.9 75.2 112.8
141 52.3 43.4 65.2





#15
2-Fluorobiphenyl
Concen: 0.413 ng
RT: 12.978 min Scan# 1315
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

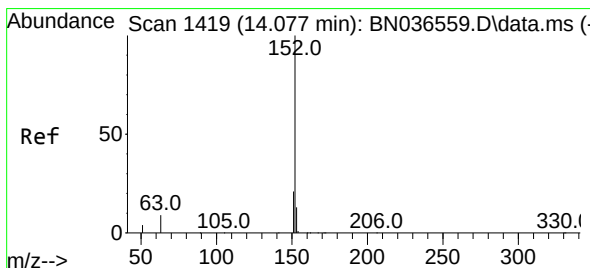
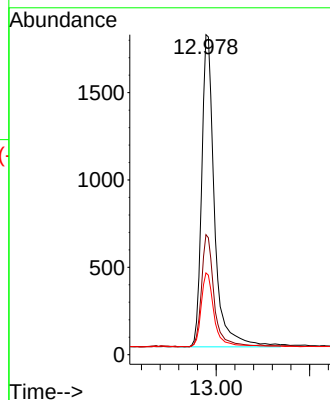
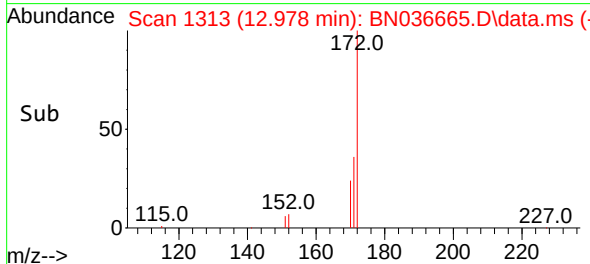
Instrument :
BNA_N
ClientSampleId :
PB167159BS



Tgt Ion:172 Resp: 469
Ion Ratio Lower Upper
172 100
171 37.5 29.5 44.3
170 25.5 20.2 30.4

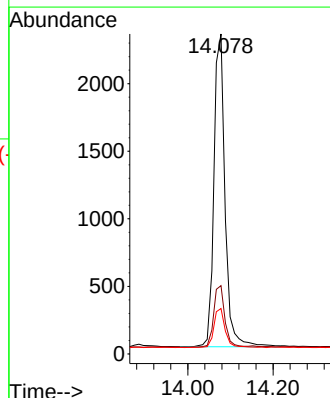
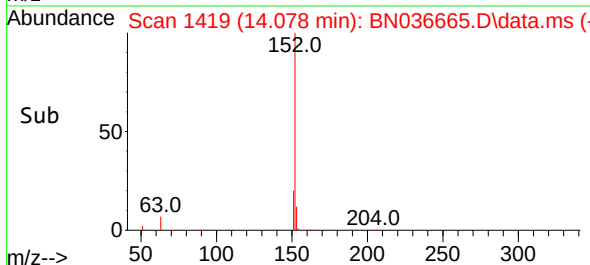
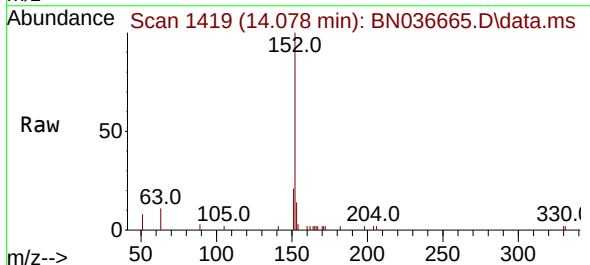
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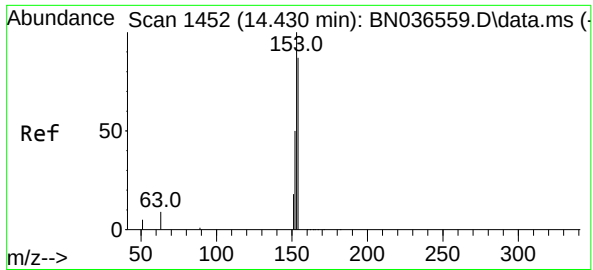
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#16
Acenaphthylene
Concen: 0.456 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

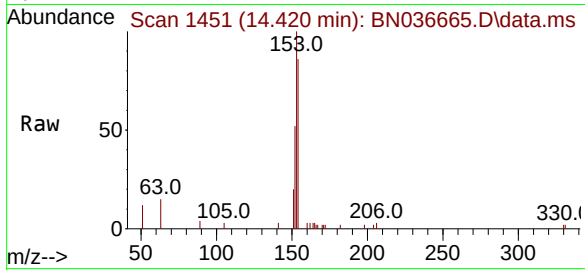
Tgt Ion:152 Resp: 4194
Ion Ratio Lower Upper
152 100
151 19.7 16.2 24.4
153 12.9 10.6 15.8





#17
Acenaphthene
Concen: 0.431 ng
RT: 14.420 min Scan# 1452
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

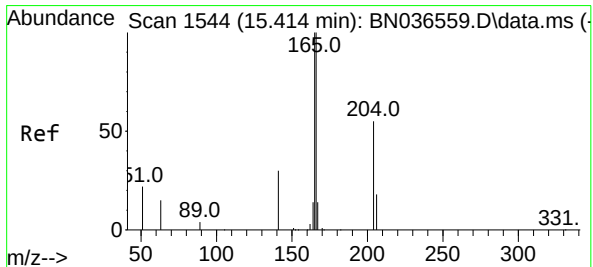
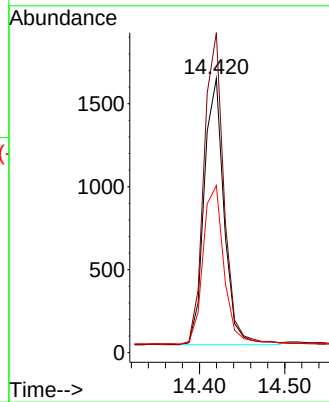
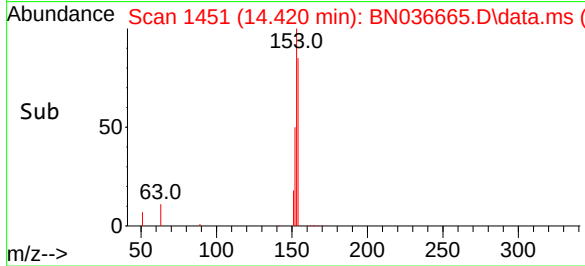
Instrument :
BNA_N
ClientSampleId :
PB167159BS



Tgt Ion:154 Resp: 259
Ion Ratio Lower Upper
154 100
153 118.7 94.1 141.1
152 63.4 49.8 74.6

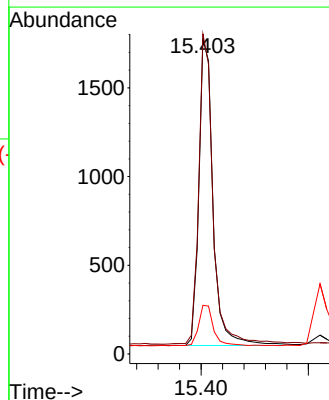
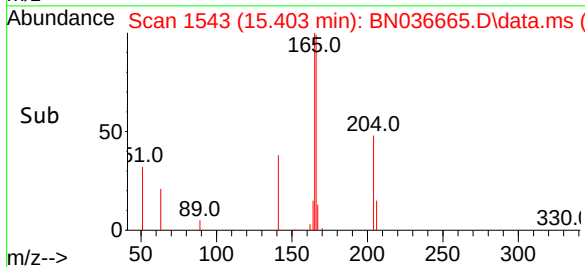
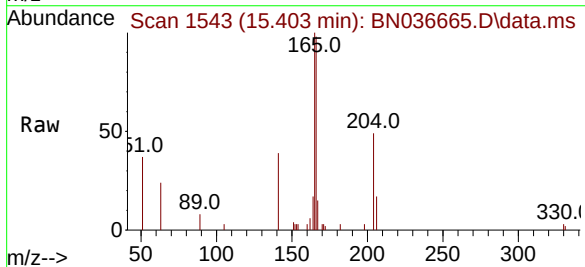
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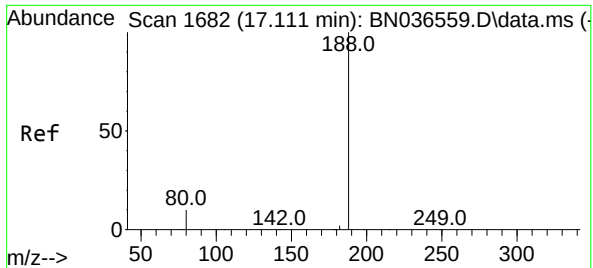
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#18
Fluorene
Concen: 0.400 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:166 Resp: 3260
Ion Ratio Lower Upper
166 100
165 100.8 79.8 119.8
167 14.0 10.6 15.8





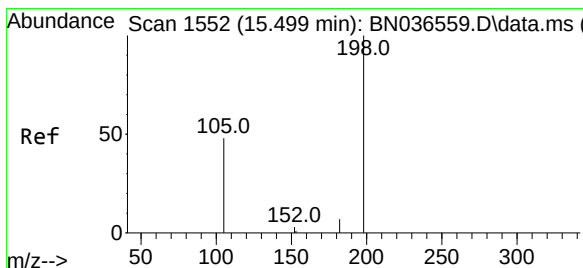
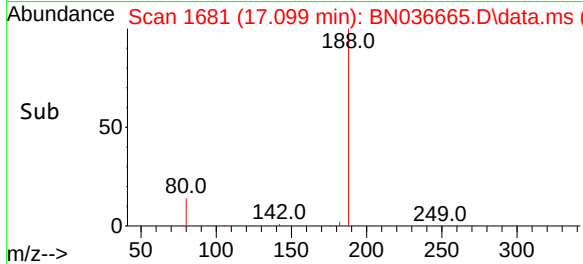
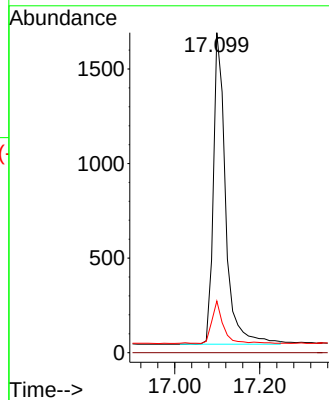
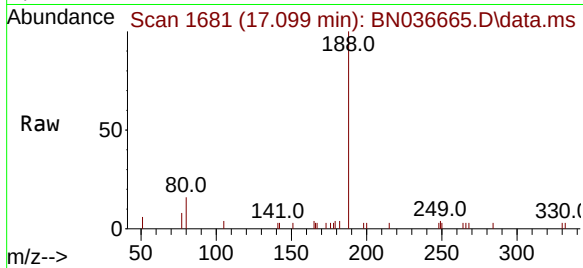
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1682
Delta R.T. -0.012 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Tgt Ion:188 Resp: 3290
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 16.1 8.8 13.2

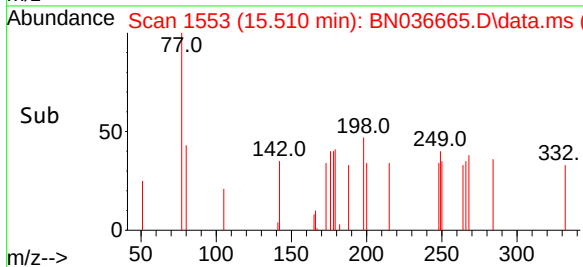
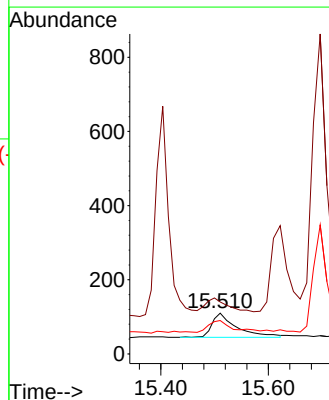
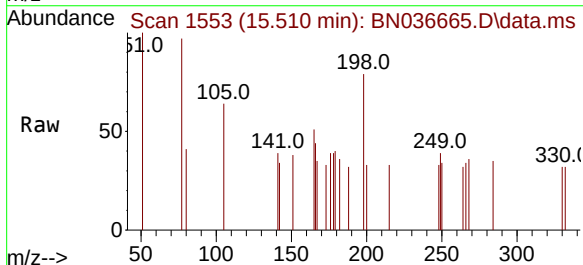
Manual Integrations
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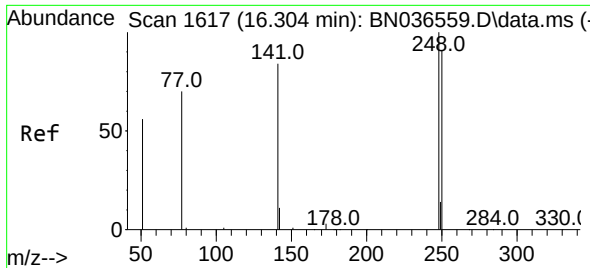
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#20
4,6-Dinitro-2-methylphenol
Concen: 0.389 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:198 Resp: 204
Ion Ratio Lower Upper
198 100
51 127.3 107.9 161.9
105 81.8 56.2 84.2





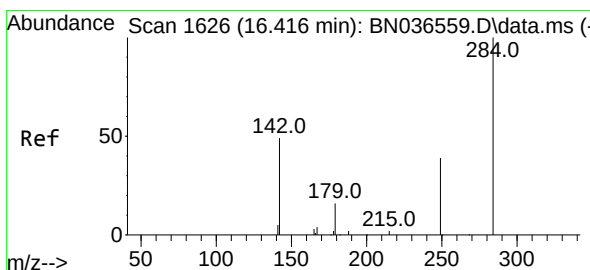
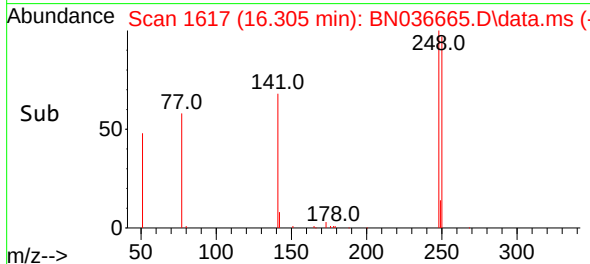
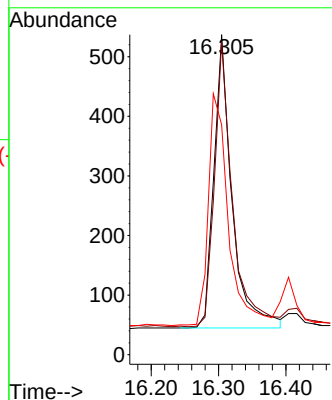
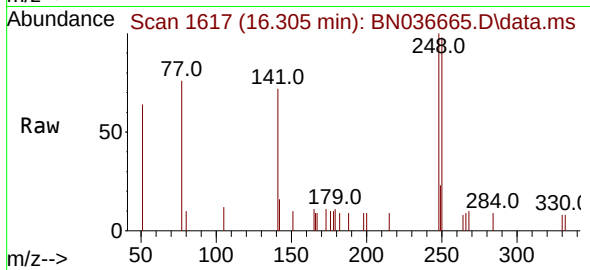
#21
4-Bromophenyl-phenylether
Concen: 0.447 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Tgt Ion:248 Resp: 92.0
Ion Ratio Lower Upper
248 100
250 97.8 73.0 109.6
141 71.9 68.6 103.0

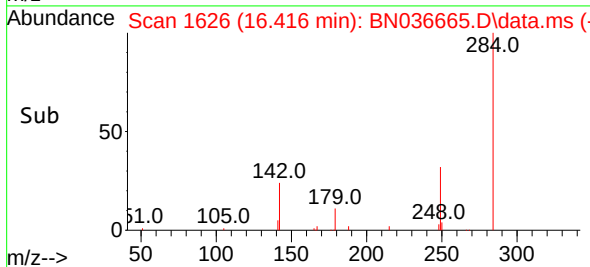
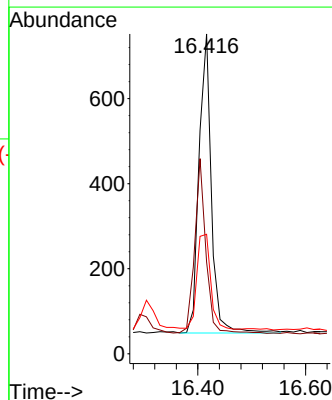
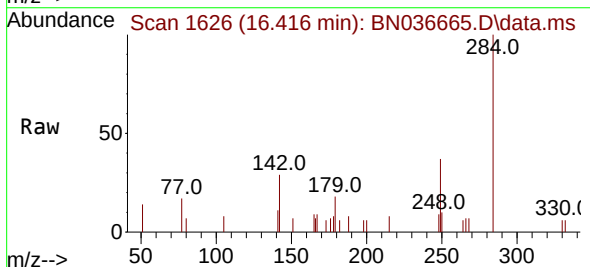
Manual Integrations
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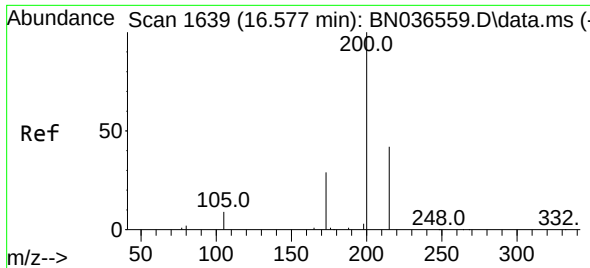
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#22
Hexachlorobenzene
Concen: 0.452 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

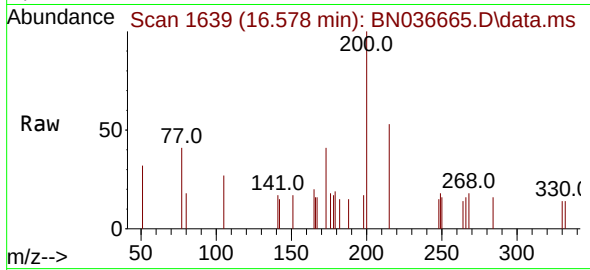
Tgt Ion:284 Resp: 1125
Ion Ratio Lower Upper
284 100
142 53.7 37.0 55.4
249 35.8 28.1 42.1





#23
Atrazine
Concen: 0.441 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

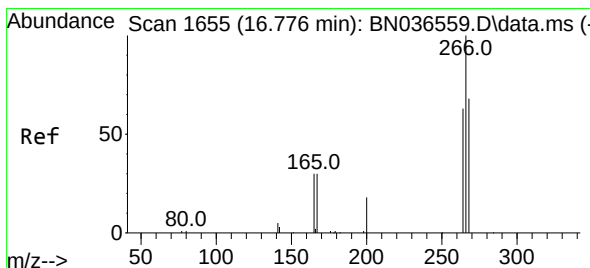
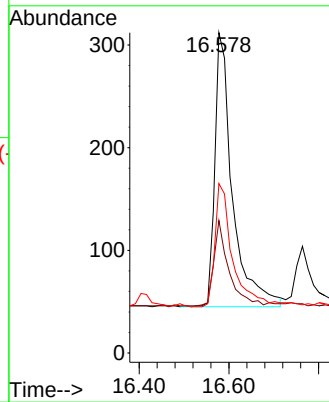
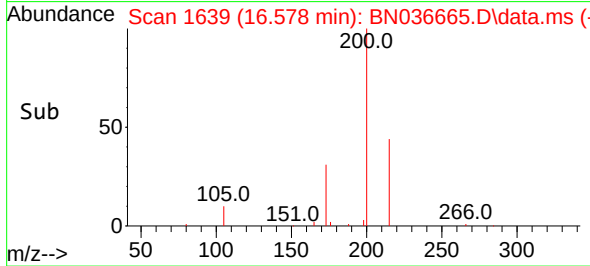
Instrument :
BNA_N
ClientSampleId :
PB167159BS



Tgt Ion:200 Resp: 729
Ion Ratio Lower Upper
200 100
173 41.3 27.3 40.9
215 52.9 36.8 55.2

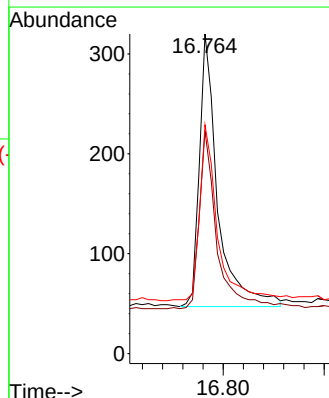
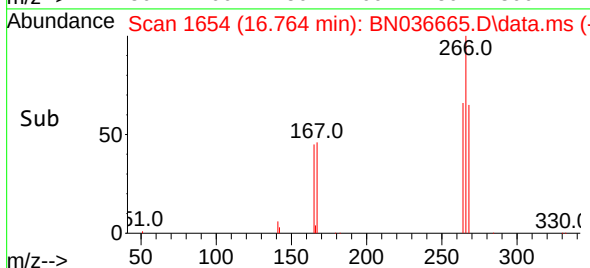
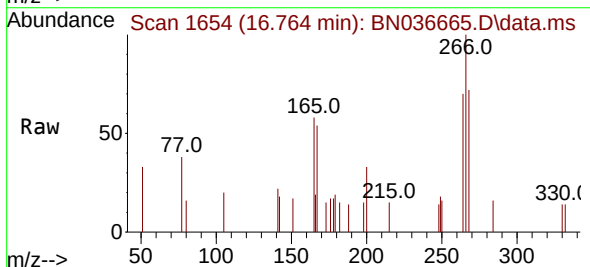
Manual Integrations
APPROVED

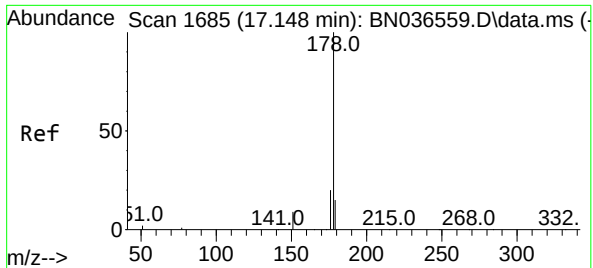
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#24
Pentachlorophenol
Concen: 0.608 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

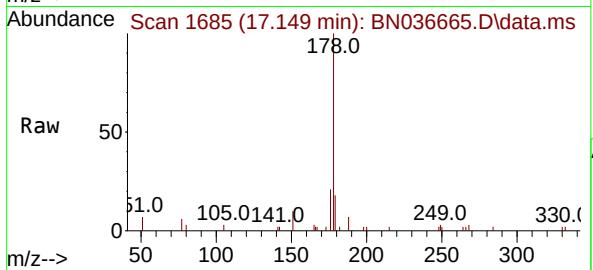
Tgt Ion:266 Resp: 690
Ion Ratio Lower Upper
266 100
264 61.6 49.6 74.4
268 62.8 50.9 76.3





#25
Phenanthrene
Concen: 0.431 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

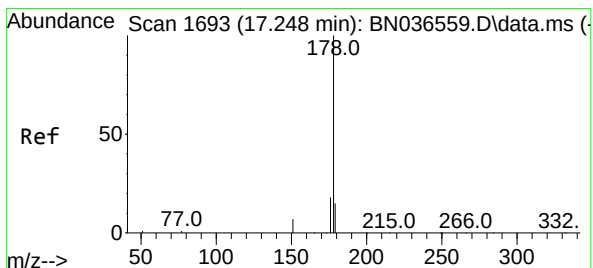
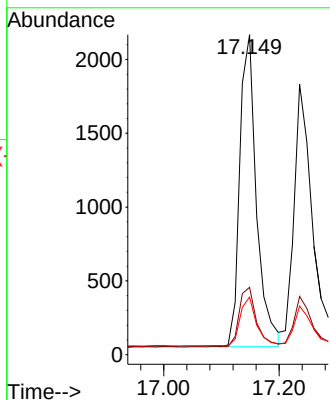
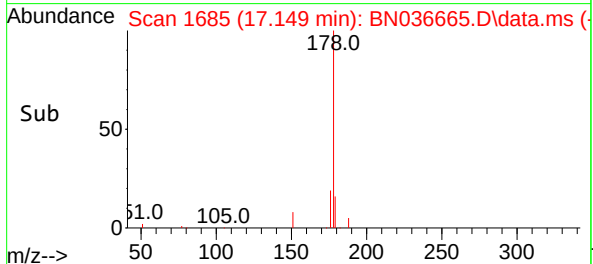
Instrument :
BNA_N
ClientSampleId :
PB167159BS



Tgt Ion:178 Resp: 4250
Ion Ratio Lower Upper
178 100
176 19.9 15.9 23.9
179 15.3 12.2 18.4

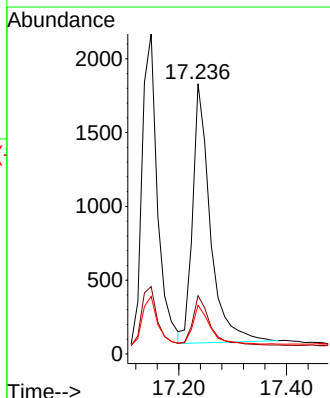
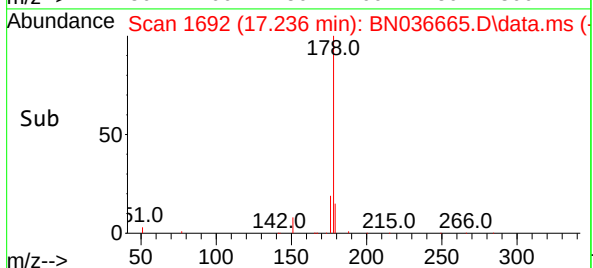
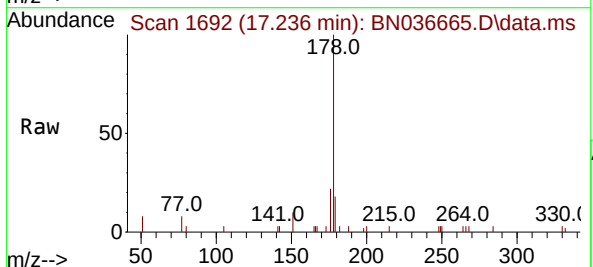
Manual Integrations
APPROVED

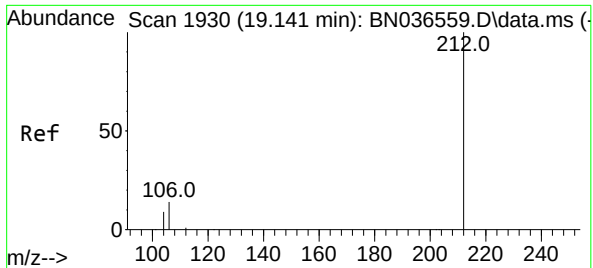
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#26
Anthracene
Concen: 0.448 ng
RT: 17.236 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

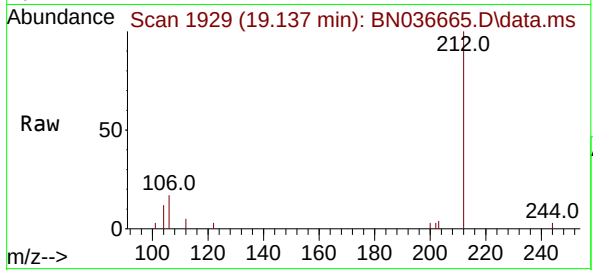
Tgt Ion:178 Resp: 3990
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 14.9 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.339 ng
RT: 19.137 min Scan# 1930
Delta R.T. -0.004 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

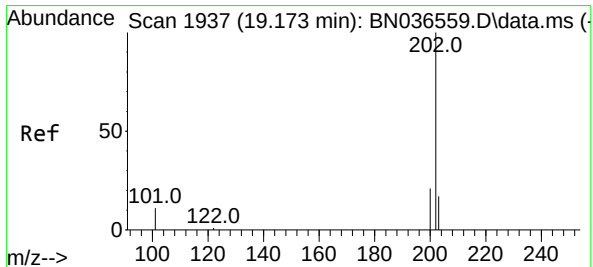
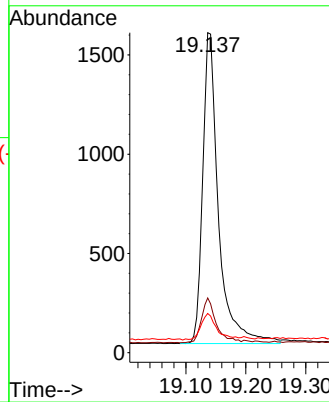
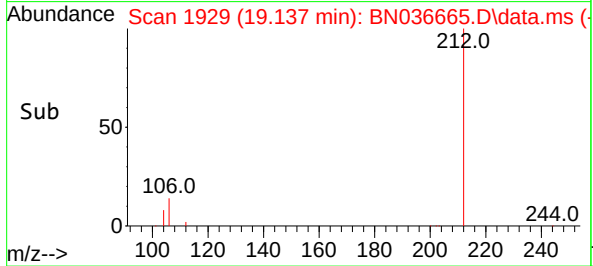
Instrument :
BNA_N
ClientSampleId :
PB167159BS



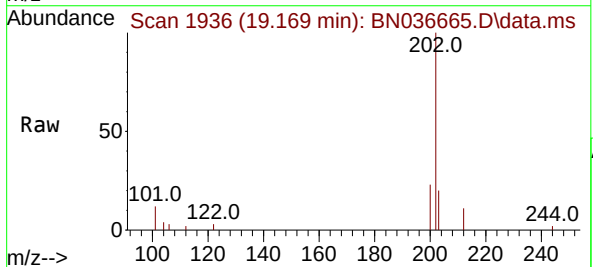
Tgt Ion:212 Resp: 2860
Ion Ratio Lower Upper
212 100
106 13.3 11.8 17.6
104 8.7 7.3 10.9

Manual Integrations
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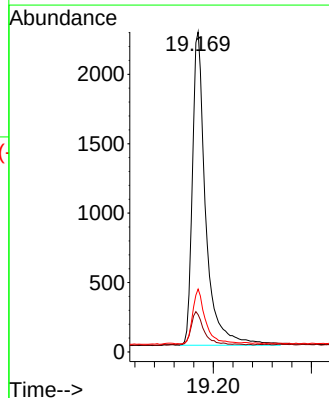
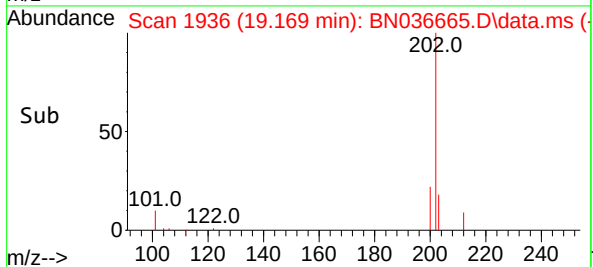
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

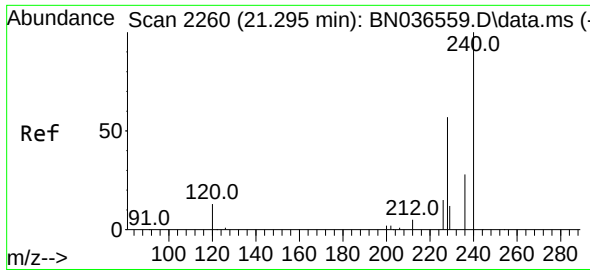


#28
Fluoranthene
Concen: 0.383 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.004 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31



Tgt Ion:202 Resp: 4249
Ion Ratio Lower Upper
202 100
101 10.3 9.4 14.0
203 16.8 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036665.D

Acq: 17 Mar 2025 18:31

Instrument :

BNA_N

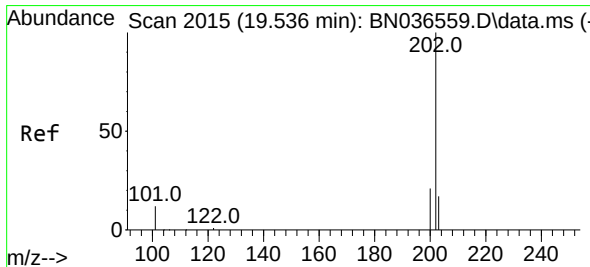
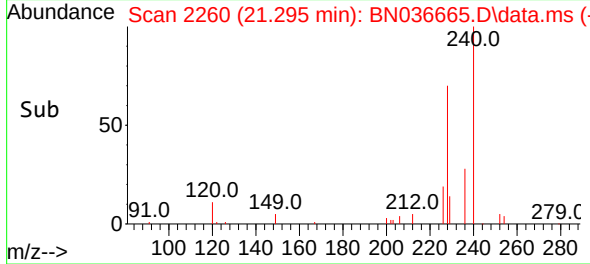
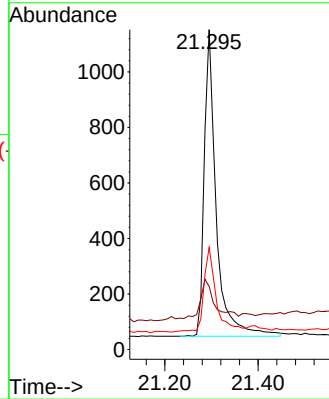
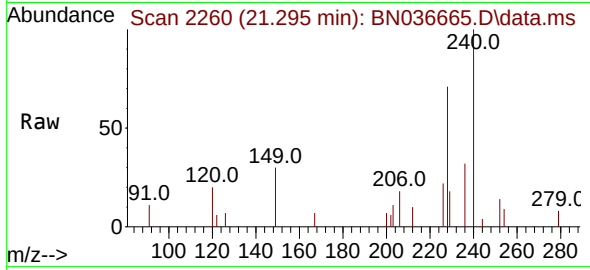
ClientSampleId :

PB167159BS

Tgt Ion:	240	Resp:	197
Ion Ratio	Lower	Upper	
240	100		
120	19.7	14.6	22.0
236	31.9	24.1	36.1

Manual Integrations
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Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#30

Pyrene

Concen: 0.446 ng

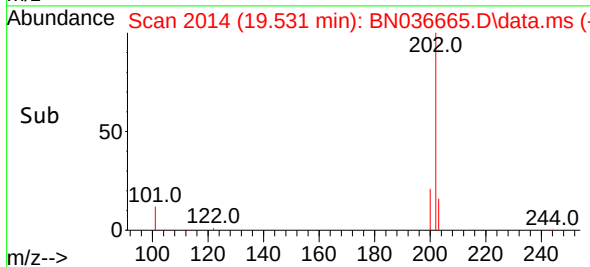
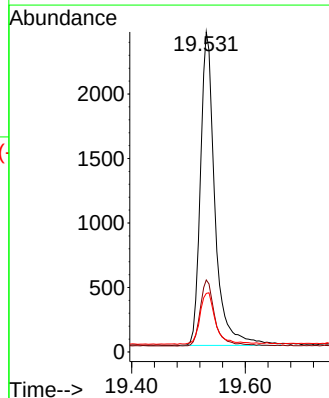
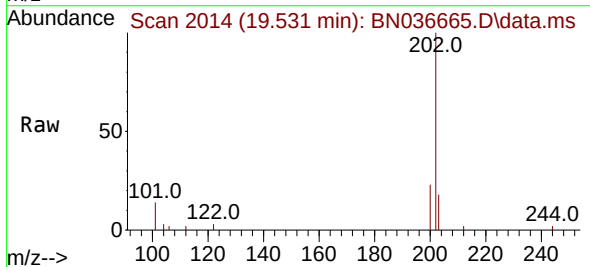
RT: 19.531 min Scan# 2014

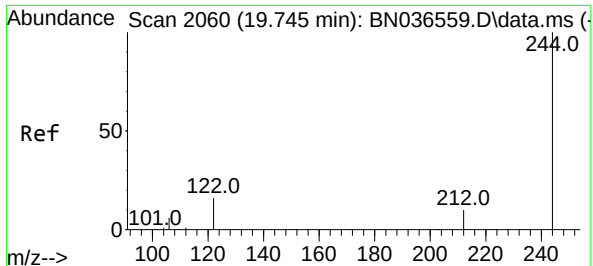
Delta R.T. -0.004 min

Lab File: BN036665.D

Acq: 17 Mar 2025 18:31

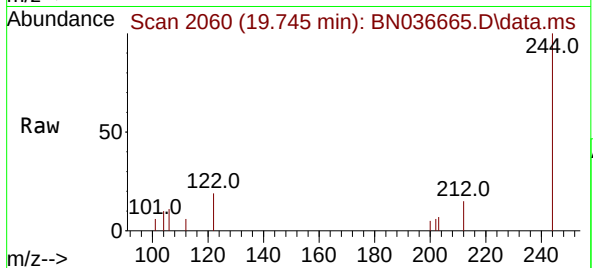
Tgt Ion:	202	Resp:	4301
Ion Ratio	Lower	Upper	
202	100		
200	21.8	17.1	25.7
203	17.3	14.1	21.1





#31
Terphenyl-d14
Concen: 0.410 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

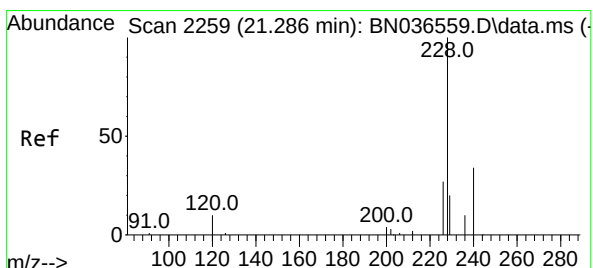
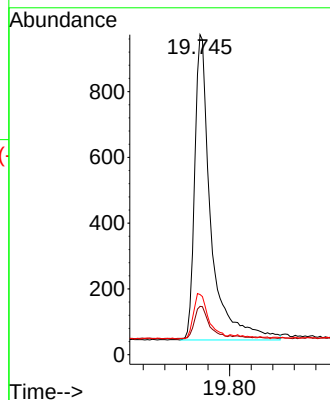
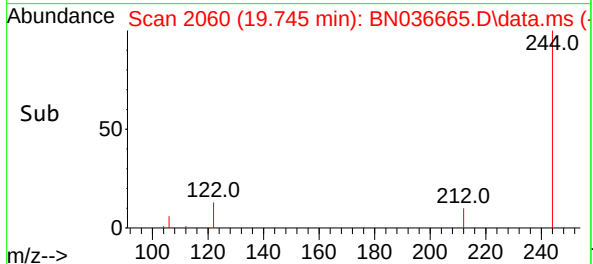
Instrument :
BNA_N
ClientSampleId :
PB167159BS



Tgt Ion:244 Resp: 1935
Ion Ratio Lower Upper
244 100
212 15.1 9.6 14.4
122 18.8 13.9 20.9

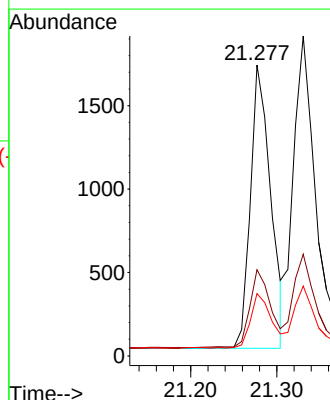
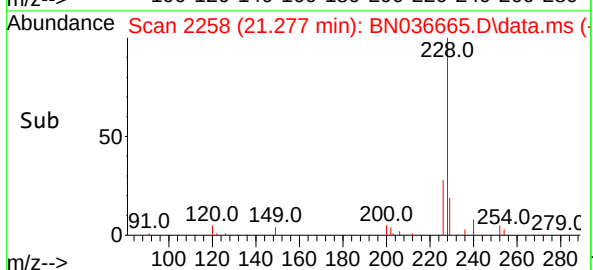
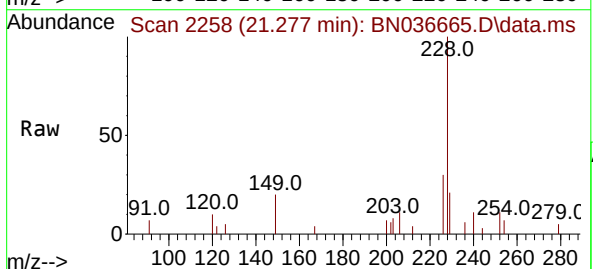
Manual Integrations
APPROVED

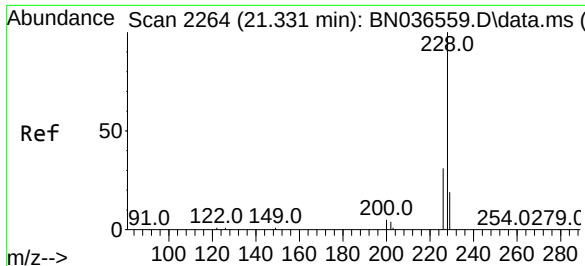
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#32
Benzo(a)anthracene
Concen: 0.404 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

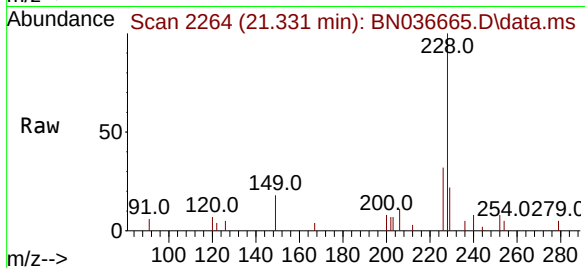
Tgt Ion:228 Resp: 2770
Ion Ratio Lower Upper
228 100
226 29.7 22.5 33.7
229 21.5 16.6 25.0





#33
Chrysene
Concen: 0.481 ng
RT: 21.331 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

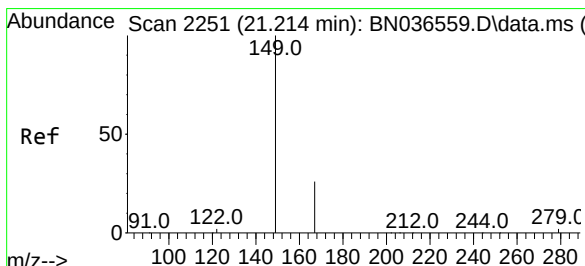
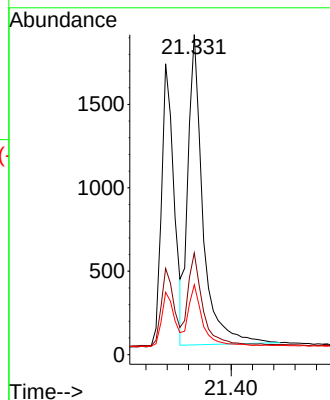
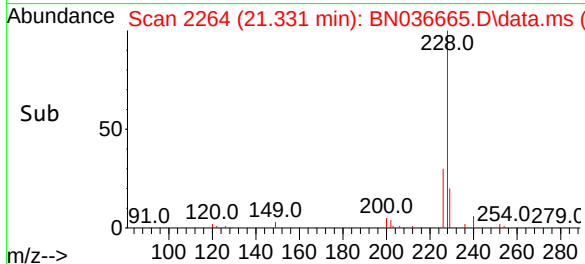
Instrument :
BNA_N
ClientSampleId :
PB167159BS



Tgt Ion: 228 Resp: 3600
Ion Ratio Lower Upper
228 100
226 31.8 25.3 37.9
229 21.8 15.8 23.8

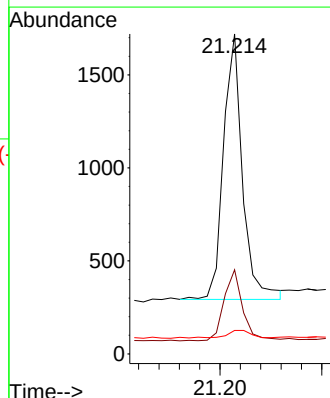
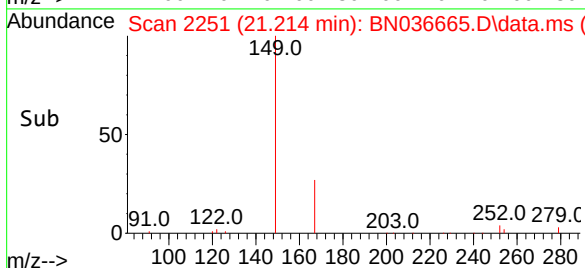
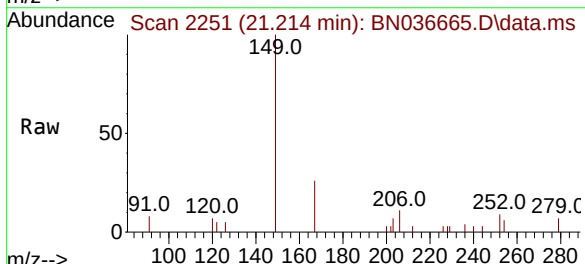
Manual Integrations
APPROVED

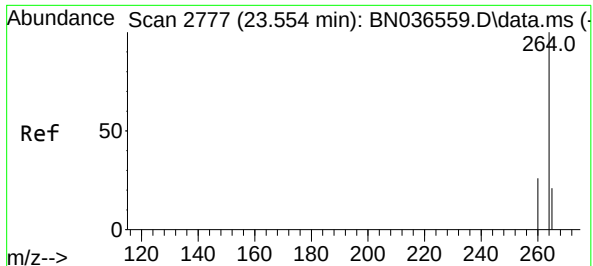
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.379 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion: 149 Resp: 1852
Ion Ratio Lower Upper
149 100
167 27.1 20.7 31.1
279 3.4 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.552 min Scan# 2776

Delta R.T. -0.003 min

Lab File: BN036665.D

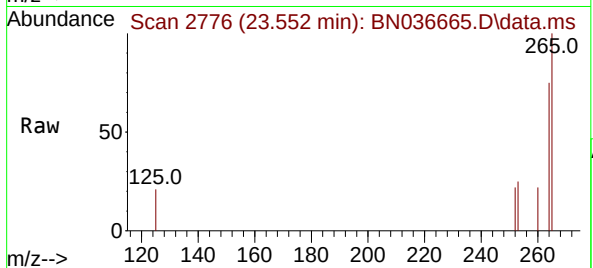
Acq: 17 Mar 2025 18:31

Instrument :

BNA_N

ClientSampleId :

PB167159BS



Tgt Ion:264 Resp: 1878

Ion Ratio Lower Upper

264 100

260 28.8 22.6 33.8

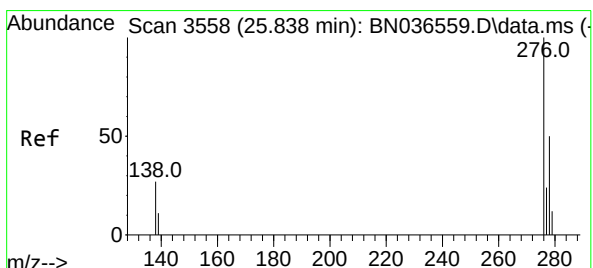
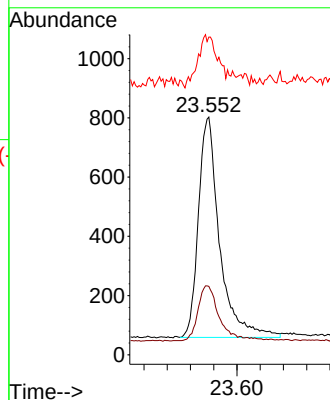
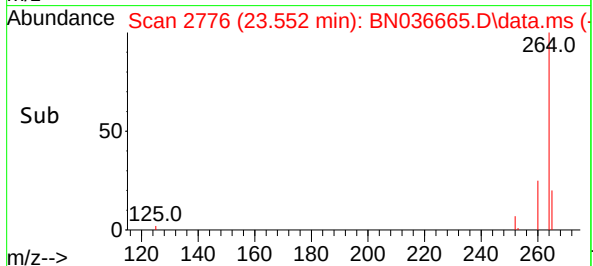
265 133.6 88.1 132.1

Manual Integrations

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Reviewed By :Anahy Claudio 03/18/2025

Supervised By :Jagrut Upadhyay 03/18/2025



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.506 ng

RT: 25.829 min Scan# 3555

Delta R.T. -0.009 min

Lab File: BN036665.D

Acq: 17 Mar 2025 18:31

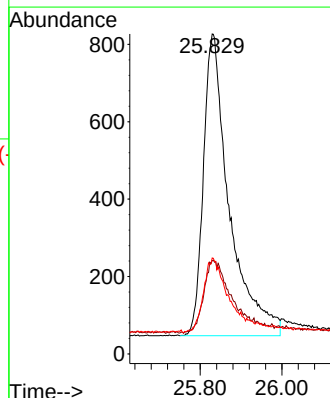
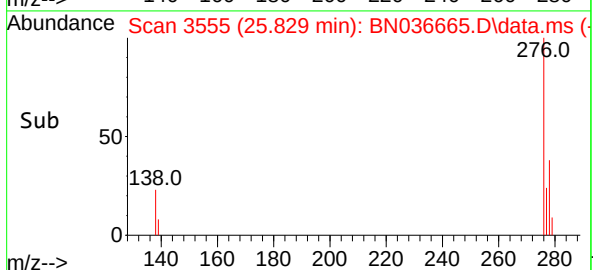
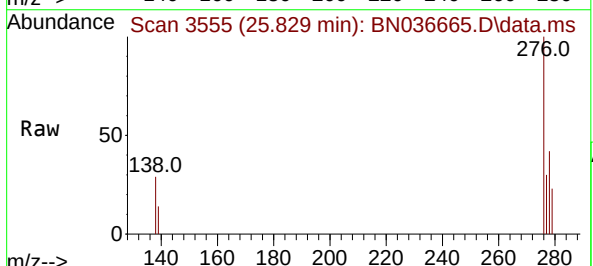
Tgt Ion:276 Resp: 3428

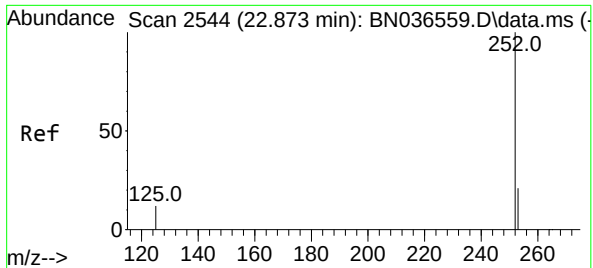
Ion Ratio Lower Upper

276 100

138 22.7 23.4 35.2#

277 22.8 20.0 30.0





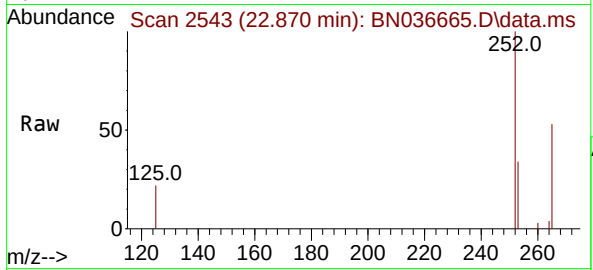
#37
Benzo(b)fluoranthene
Concen: 0.395 ng
RT: 22.870 min Scan# 2543
Delta R.T. -0.003 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :

BNA_N

ClientSampleId :

PB167159BS

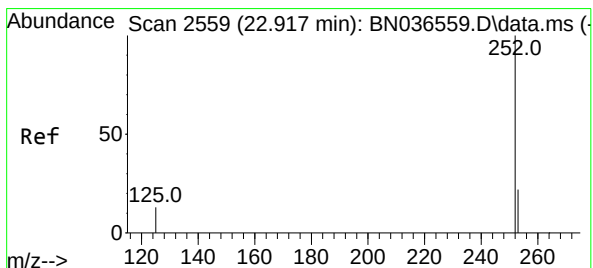
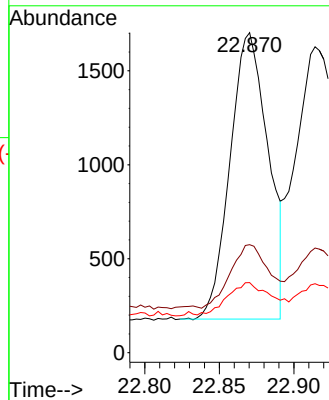
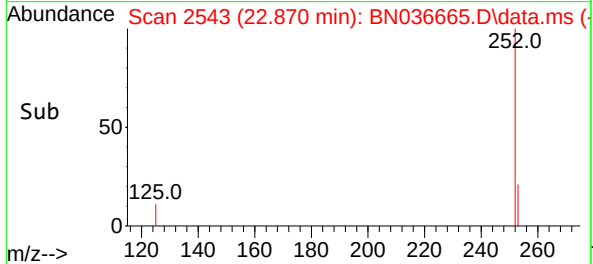


Tgt Ion:252 Resp: 270
Ion Ratio Lower Upper
252 100
253 33.8 23.9 35.9
125 21.9 17.4 26.2

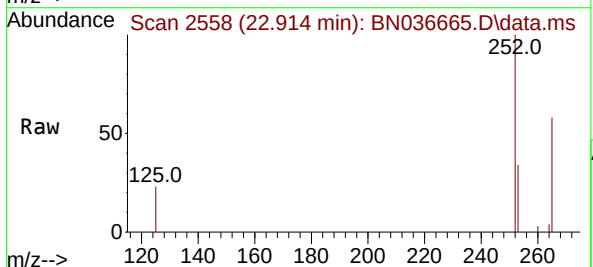
Manual Integrations

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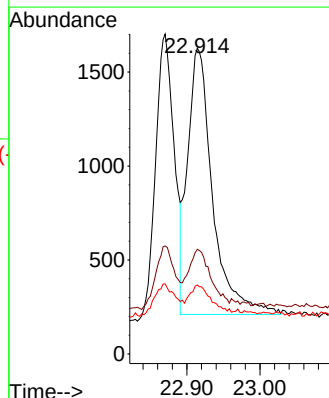
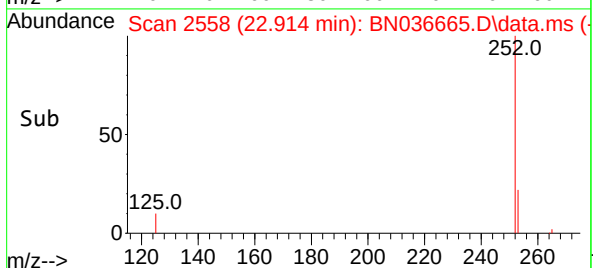
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

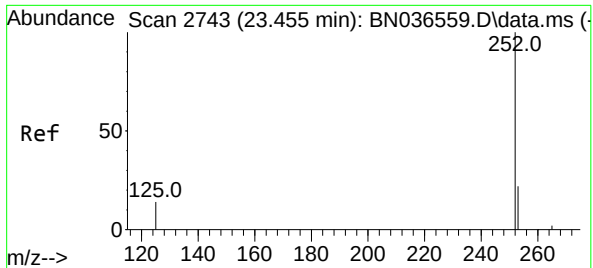


#38
Benzo(k)fluoranthene
Concen: 0.470 ng m
RT: 22.914 min Scan# 2558
Delta R.T. -0.003 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31



Tgt Ion:252 Resp: 3373
Ion Ratio Lower Upper
252 100
253 34.2 24.6 36.8
125 22.5 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.493 ng

RT: 23.452 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036665.D

Acq: 17 Mar 2025 18:31

Instrument :

BNA_N

ClientSampleId :

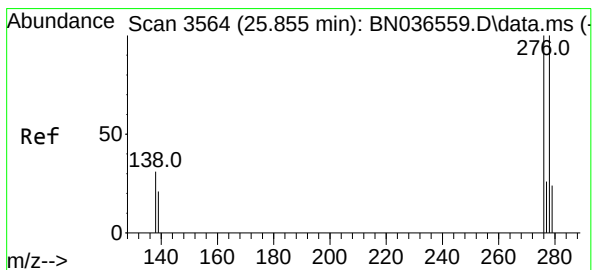
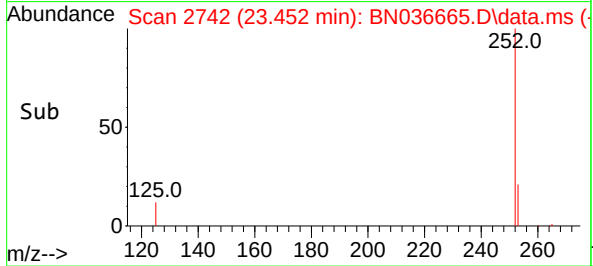
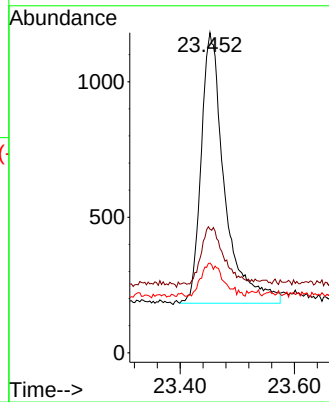
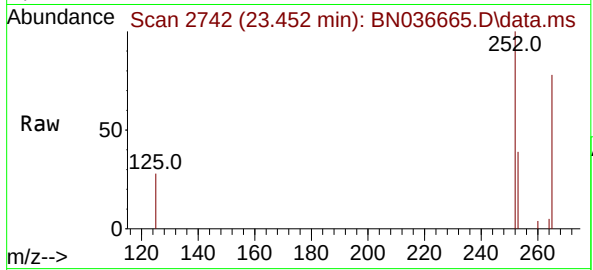
PB167159BS

Tgt Ion:	252	Resp:	283
Ion Ratio	Lower	Upper	
252	100		
253	38.6	27.8	41.8
125	28.0	22.7	34.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.489 ng

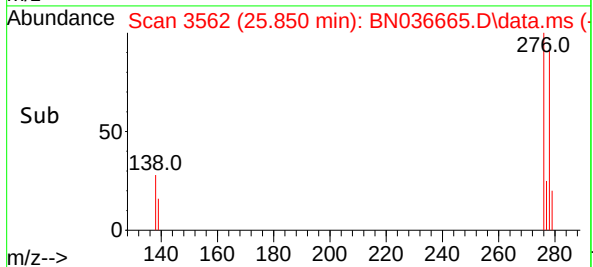
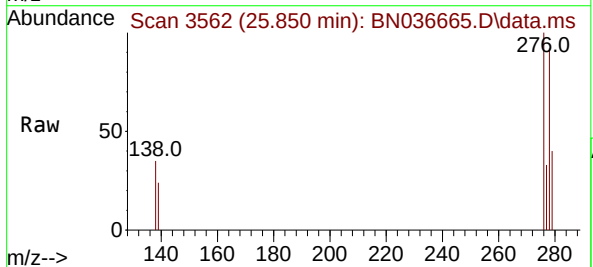
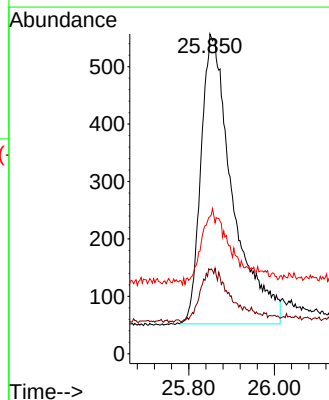
RT: 25.850 min Scan# 3562

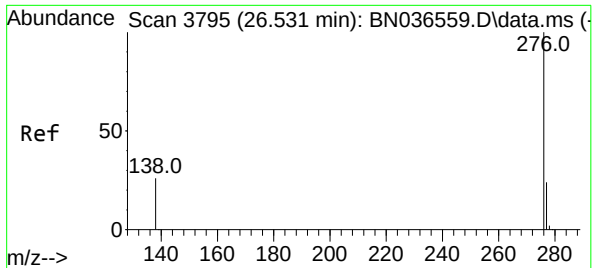
Delta R.T. -0.006 min

Lab File: BN036665.D

Acq: 17 Mar 2025 18:31

Tgt Ion:	278	Resp:	2578
Ion Ratio	Lower	Upper	
278	100		
139	26.2	20.8	31.2
279	42.9	28.8	43.2





#41

Benzo(g,h,i)perylene

Concen: 0.473 ng

RT: 26.519 min Scan# 31

Delta R.T. -0.011 min

Lab File: BN036665.D

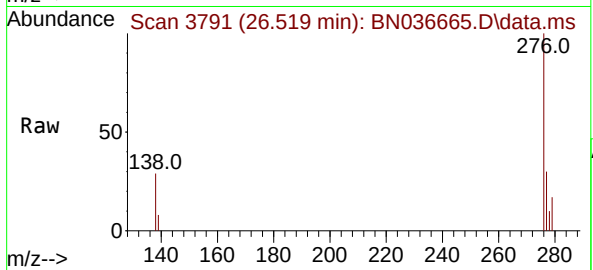
Acq: 17 Mar 2025 18:31

Instrument :

BNA_N

ClientSampleId :

PB167159BS



Tgt Ion: 276 Resp: 285

Ion Ratio Lower Upper

276 100

277 29.8 22.2 33.4

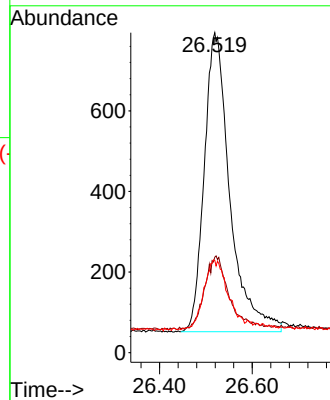
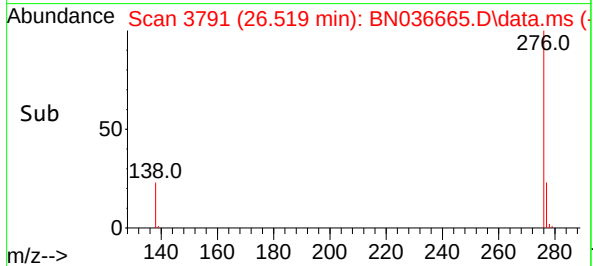
138 28.8 24.1 36.1

Manual Integrations

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Reviewed By :Anahy Claudio 03/18/2025

Supervised By :Jagrut Upadhyay 03/18/2025



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:	PB167159BSD	SDG No.:	Q1582
Lab Sample ID:	PB167159BSD	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
BN036680.D	1	03/17/25 08:48	03/18/25 04:16	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.38		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.40		30 - 150		99%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		94%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43	*	53 - 106		108%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		107%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1800	7.717				
1146-65-2	Naphthalene-d8	4270	10.498				
15067-26-2	Acenaphthene-d10	2250	14.355				
1517-22-2	Phenanthrene-d10	4160	17.099				
1719-03-5	Chrysene-d12	2620	21.295				
1520-96-3	Perylene-d12	2260	23.543				

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\BN031725\
 Data File : BN036680.D
 Acq On : 18 Mar 2025 04:16
 Operator : RC/JU
 Sample : PB167159BSD
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB167159BSD

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 03/18/2025
 Supervised By :Jagrut Upadhyay 03/18/2025

Quant Time: Mar 18 05:22:27 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1799	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4271	0.400	ng	-0.01
13) Acenaphthene-d10	14.355	164	2251	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	4157	0.400	ng	-0.01
29) Chrysene-d12	21.295	240	2623	0.400	ng	0.00
35) Perylene-d12	23.543	264	2261	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1820	0.434	ng	0.00
5) Phenol-d6	6.886	99	2092	0.404	ng	-0.01
8) Nitrobenzene-d5	8.864	82	1743	0.375	ng	-0.01
11) 2-Methylnaphthalene-d10	12.096	152	2512m	0.395	ng	-0.02
14) 2,4,6-Tribromophenol	15.858	330	376	0.368	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	5679	0.434	ng	-0.01
27) Fluoranthene-d10	19.136	212	4030	0.378	ng	0.00
31) Terphenyl-d14	19.740	244	2694	0.429	ng	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	3.239	88	760	0.381	ng	# 30
3) n-Nitrosodimethylamine	3.543	42	1942	0.481	ng	# 87
6) bis(2-Chloroethyl)ether	7.139	93	2145	0.401	ng	98
9) Naphthalene	10.551	128	5272	0.420	ng	100
10) Hexachlorobutadiene	10.840	225	1272	0.430	ng	# 97
12) 2-Methylnaphthalene	12.172	142	3367	0.421	ng	99
16) Acenaphthylene	14.067	152	4978	0.469	ng	99
17) Acenaphthene	14.420	154	3108	0.447	ng	99
18) Fluorene	15.403	166	4054	0.431	ng	99
20) 4,6-Dinitro-2-methylph...	15.499	198	311	0.439	ng	85
21) 4-Bromophenyl-phenylether	16.304	248	1135	0.436	ng	# 82
22) Hexachlorobenzene	16.416	284	1408	0.448	ng	94
23) Atrazine	16.577	200	1005	0.481	ng	95
24) Pentachlorophenol	16.764	266	942	0.657	ng	98
25) Phenanthrene	17.136	178	5745	0.461	ng	100
26) Anthracene	17.235	178	5301	0.471	ng	99
28) Fluoranthene	19.164	202	5883	0.420	ng	98
30) Pyrene	19.527	202	6026	0.470	ng	100
32) Benzo(a)anthracene	21.277	228	3958	0.434	ng	99
33) Chrysene	21.331	228	4801	0.482	ng	99
34) Bis(2-ethylhexyl)phtha...	21.205	149	2813	0.433	ng	97
36) Indeno(1,2,3-cd)pyrene	25.826	276	3886	0.476	ng	96
37) Benzo(b)fluoranthene	22.864	252	3639	0.442	ng	97
38) Benzo(k)fluoranthene	22.908	252	4167m	0.483	ng	
39) Benzo(a)pyrene	23.446	252	3391	0.489	ng	96
40) Dibenzo(a,h)anthracene	25.846	278	3209	0.505	ng	95
41) Benzo(g,h,i)perylene	26.516	276	3330	0.458	ng	98

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

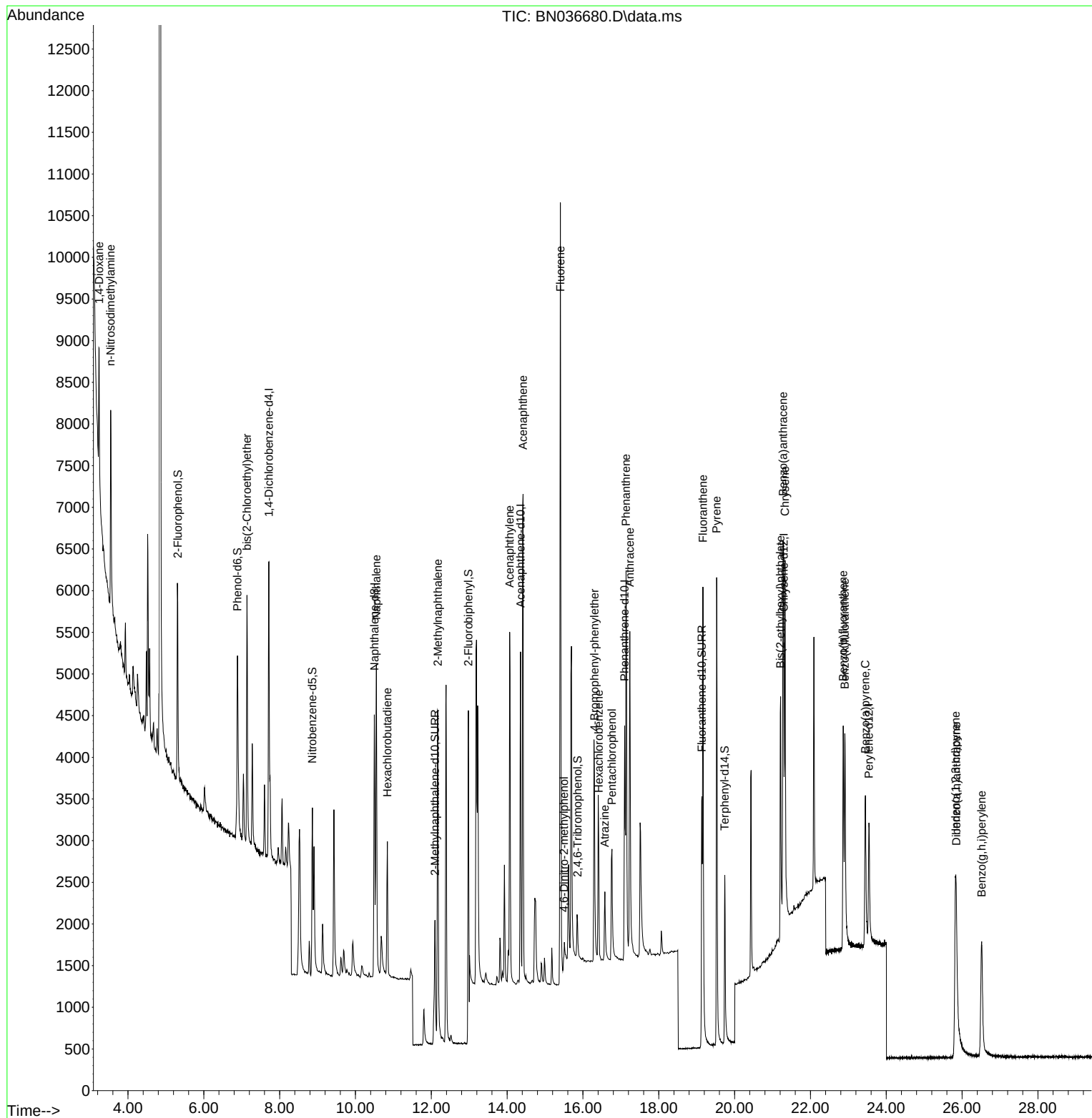
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Data File : BN036680.D
Acq On : 18 Mar 2025 04:16
Operator : RC/JU
Sample : PB167159BSD
Misc :
ALS Vial : 30 Sample Multiplier: 1

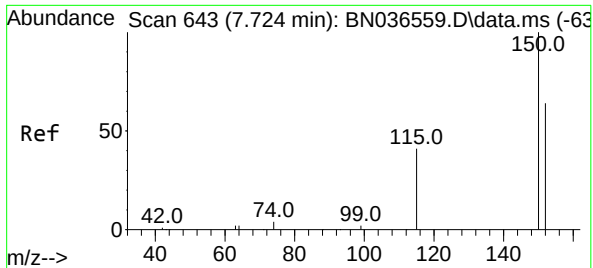
Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Manual Integrations
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Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

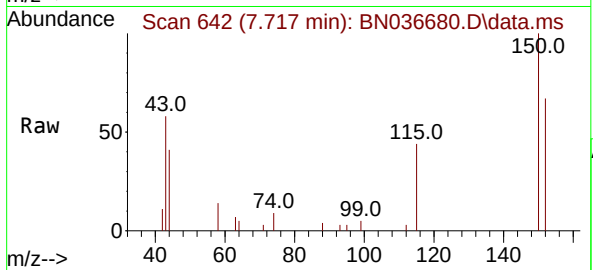
Quant Time: Mar 18 05:22:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

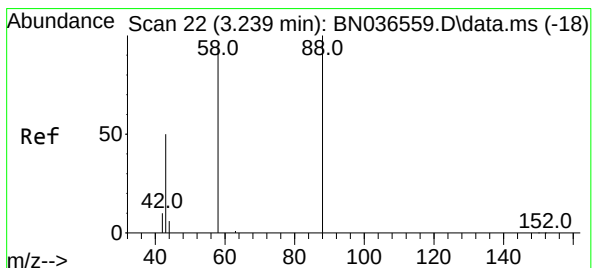
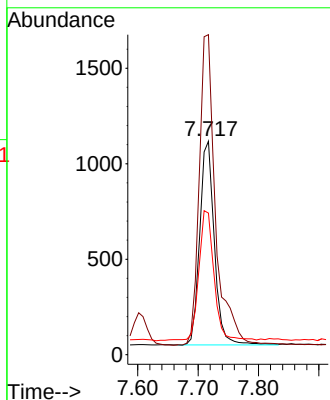
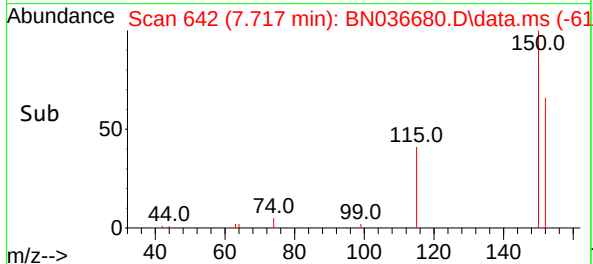
Instrument :
BNA_N
ClientSampleId :
PB167159BSD



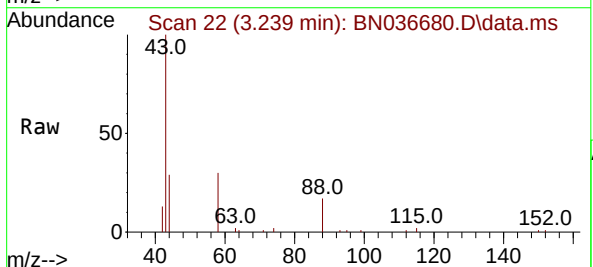
Tgt Ion: 152 Resp: 1799
Ion Ratio Lower Upper
152 100
150 149.9 123.7 185.5
115 66.4 54.3 81.5

Manual Integrations
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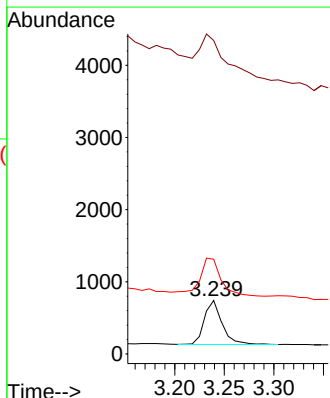
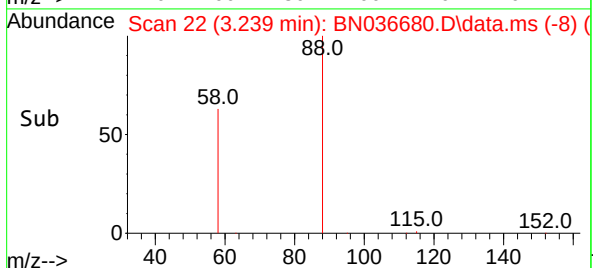
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

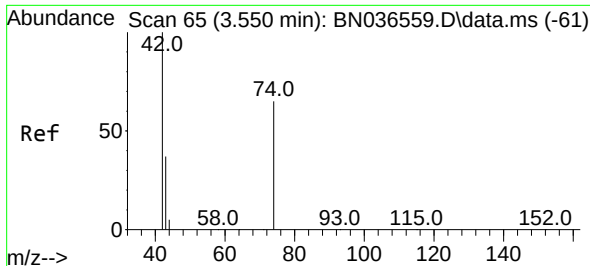


#2
1,4-Dioxane
Concen: 0.381 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16



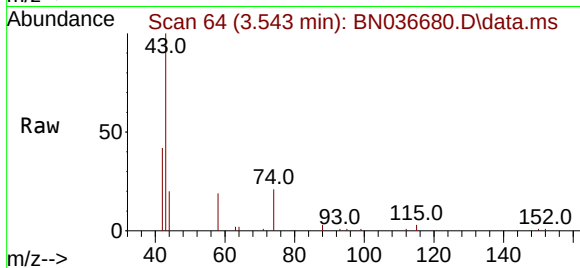
Tgt Ion: 88 Resp: 760
Ion Ratio Lower Upper
88 100
43 153.4 37.8 56.8#
58 102.4 67.4 101.2#





#3
n-Nitrosodimethylamine
Concen: 0.481 ng
RT: 3.543 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

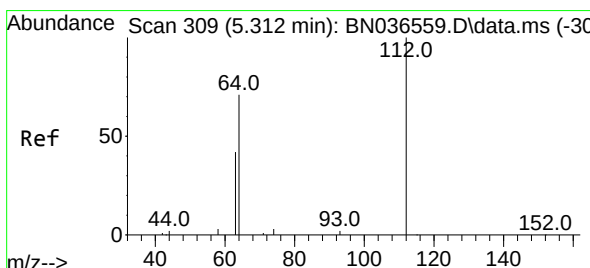
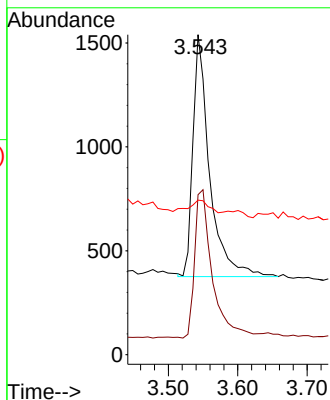
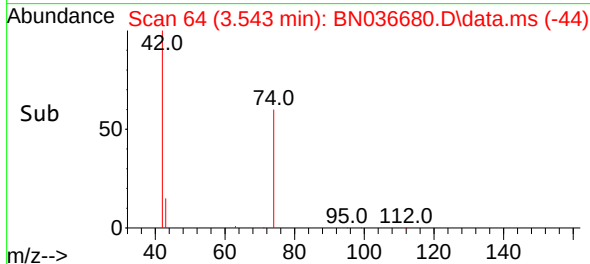
Instrument :
BNA_N
ClientSampleId :
PB167159BSD



Tgt Ion: 42 Resp: 194
Ion Ratio Lower Upper
42 100
74 64.5 60.6 90.8
44 5.4 6.3 9.5

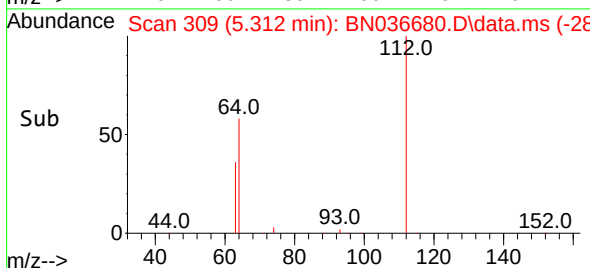
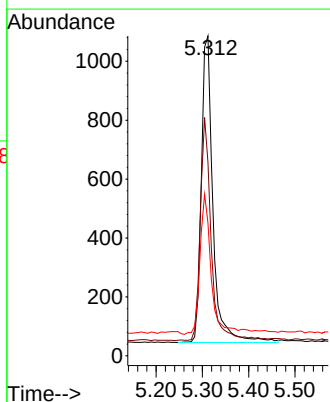
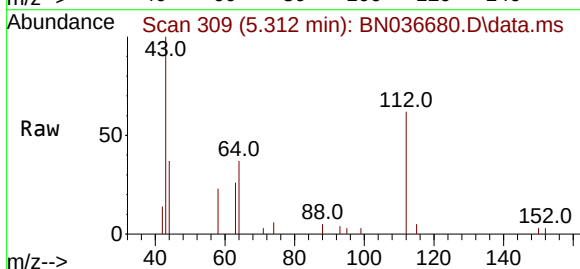
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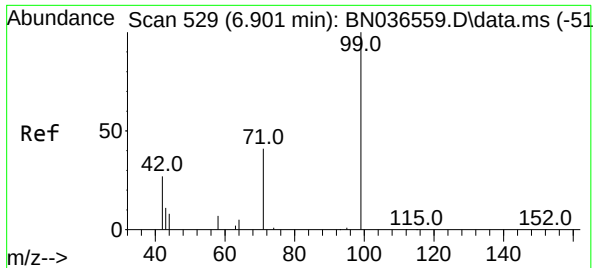
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#4
2-Fluorophenol
Concen: 0.434 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

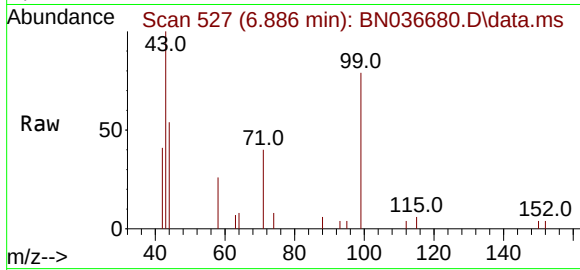
Tgt Ion:112 Resp: 1820
Ion Ratio Lower Upper
112 100
64 67.6 53.1 79.7
63 43.4 31.8 47.8





#5
Phenol-d6
Concen: 0.404 ng
RT: 6.886 min Scan# 51
Delta R.T. -0.014 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

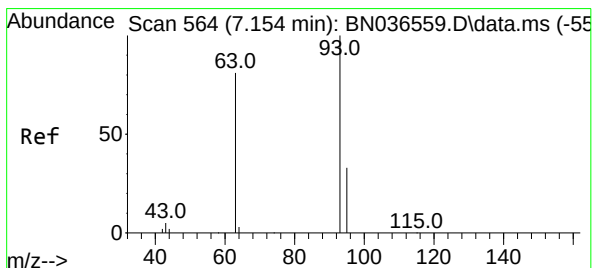
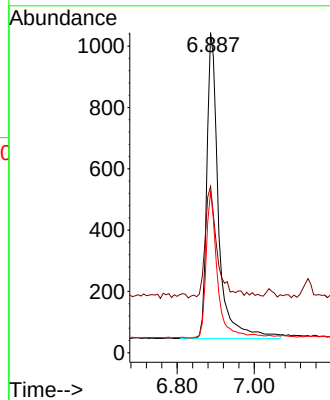
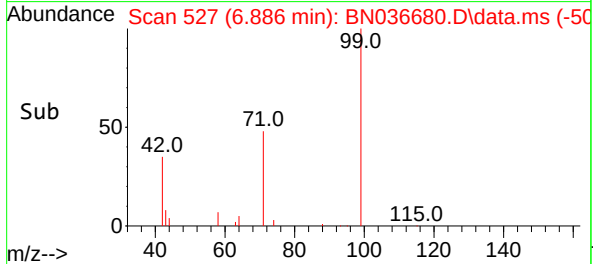
Instrument :
BNA_N
ClientSampleId :
PB167159BSD



Tgt Ion: 99 Resp: 2092
Ion Ratio Lower Upper
99 100
42 36.4 26.5 39.7
71 45.5 34.1 51.1

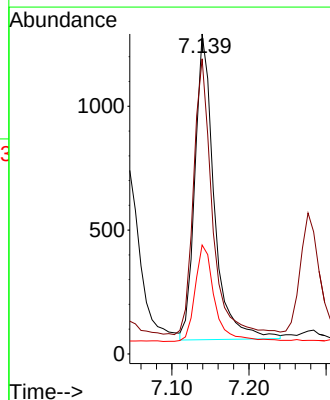
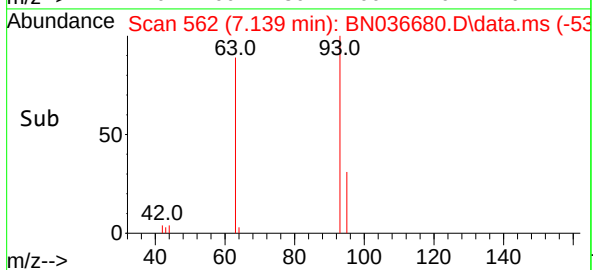
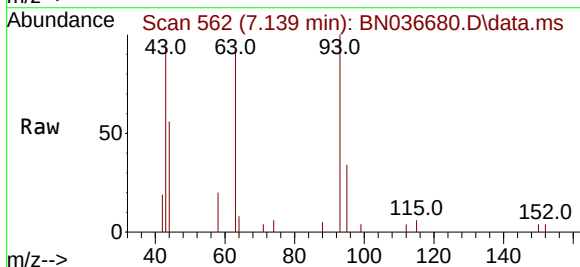
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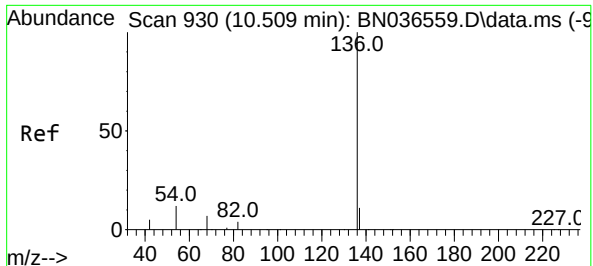
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.401 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.014 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

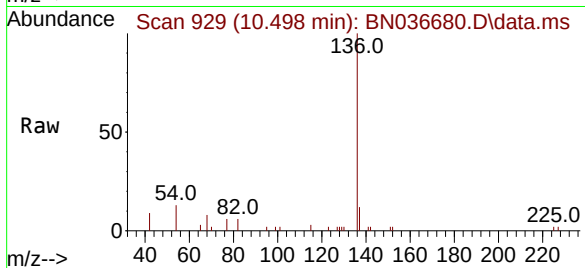
Tgt Ion: 93 Resp: 2145
Ion Ratio Lower Upper
93 100
63 87.1 67.7 101.5
95 32.2 25.6 38.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

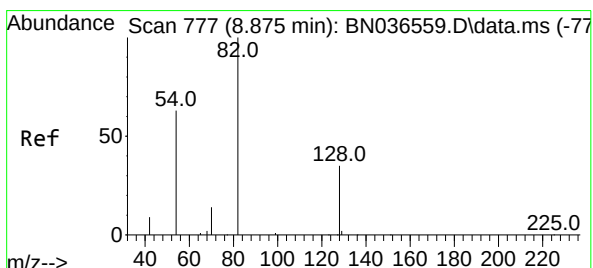
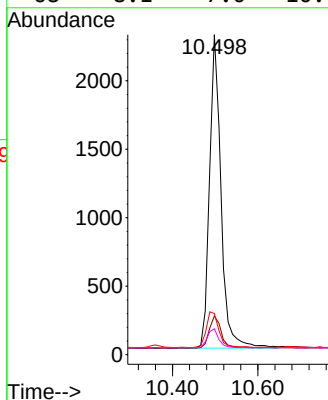
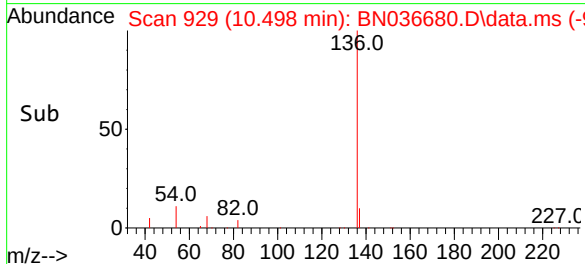
Instrument :
BNA_N
ClientSampleId :
PB167159BSD



Tgt Ion: 136 Resp: 427
Ion Ratio Lower Upper
136 100
137 12.1 10.3 15.5
54 12.9 11.5 17.3
68 8.1 7.0 10.4

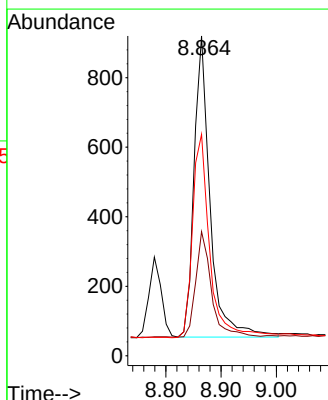
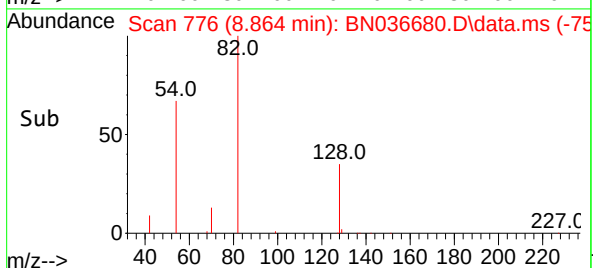
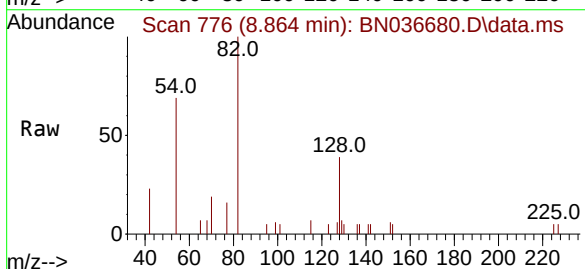
Manual Integrations
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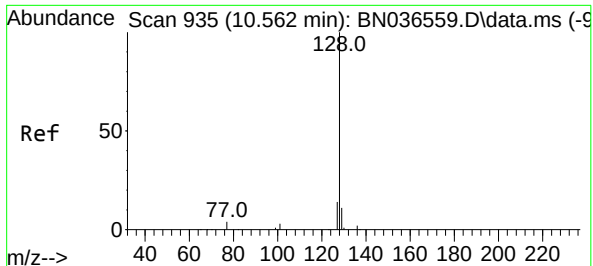
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#8
Nitrobenzene-d5
Concen: 0.375 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion: 82 Resp: 1743
Ion Ratio Lower Upper
82 100
128 38.8 30.6 45.8
54 69.2 52.2 78.4





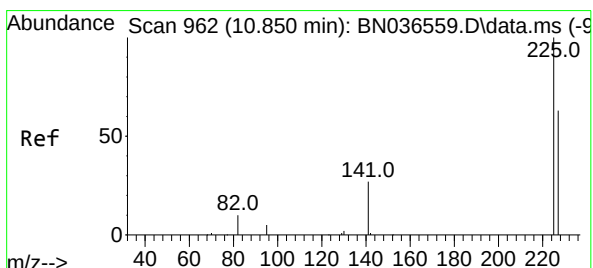
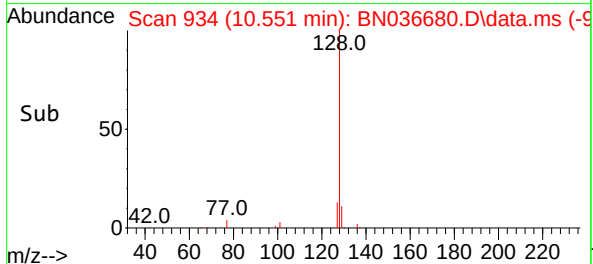
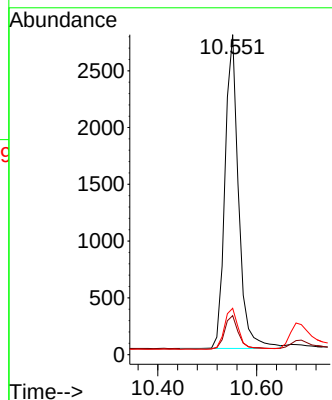
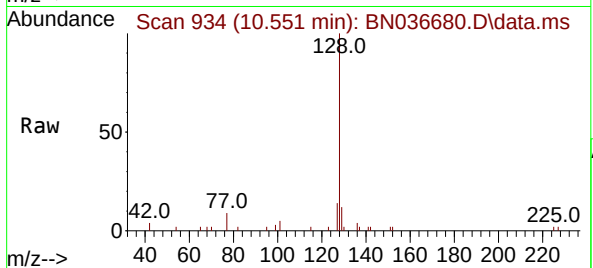
#9
Naphthalene
Concen: 0.420 ng
RT: 10.551 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Tgt Ion:128 Resp: 5272
Ion Ratio Lower Upper
128 100
129 12.2 9.8 14.6
127 14.5 11.8 17.8

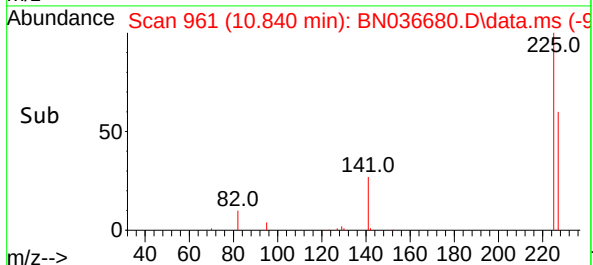
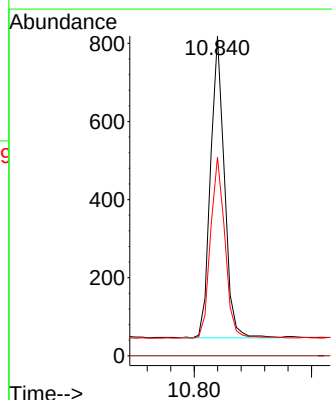
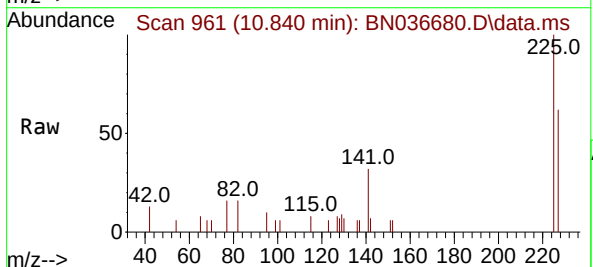
Manual Integrations
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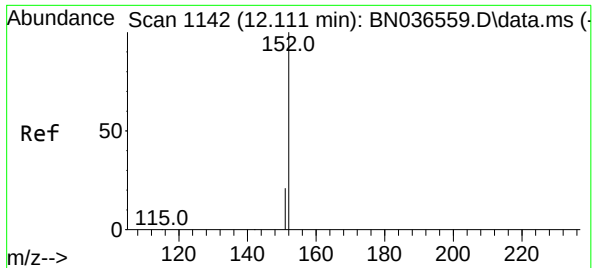
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#10
Hexachlorobutadiene
Concen: 0.430 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

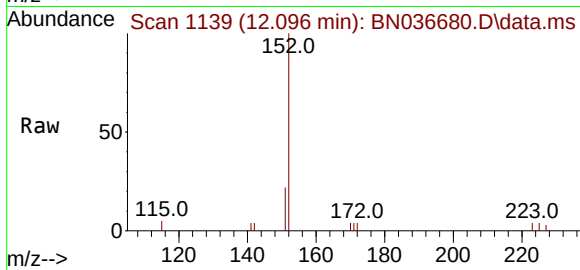
Tgt Ion:225 Resp: 1272
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.7 51.8 77.8





#11
2-Methylnaphthalene-d10
Concen: 0.395 ng m
RT: 12.096 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

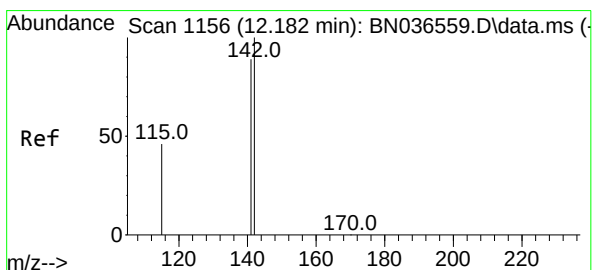
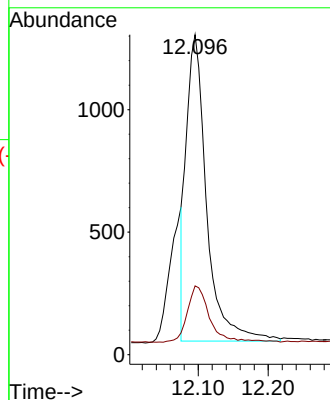
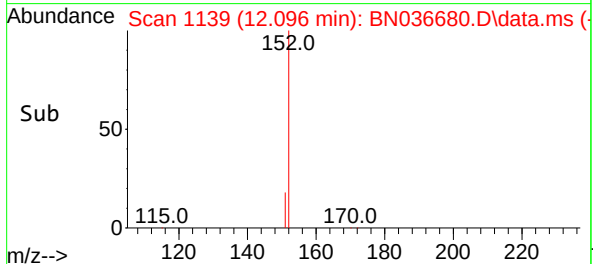
Instrument :
BNA_N
ClientSampleId :
PB167159BSD



Tgt Ion:152 Resp: 251
Ion Ratio Lower Upper
152 100
151 20.5 17.0 25.6

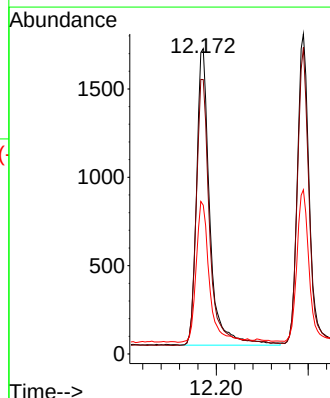
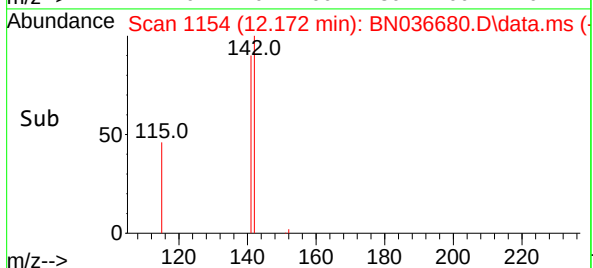
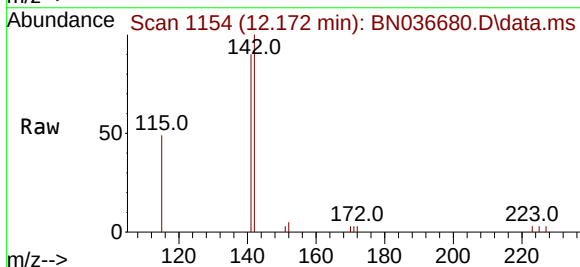
Manual Integrations
APPROVED

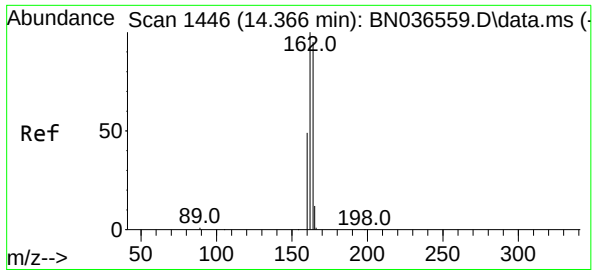
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#12
2-Methylnaphthalene
Concen: 0.421 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

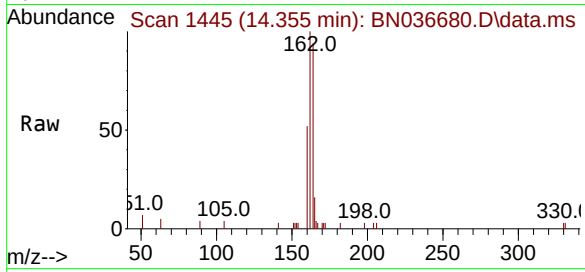
Tgt Ion:142 Resp: 3367
Ion Ratio Lower Upper
142 100
141 89.9 71.7 107.5
115 48.7 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

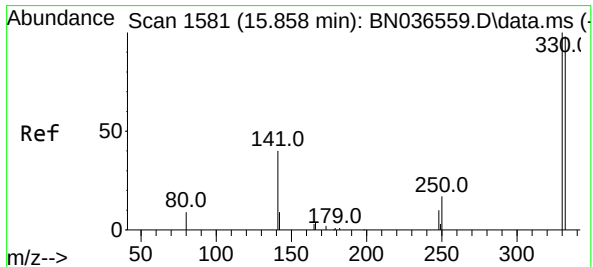
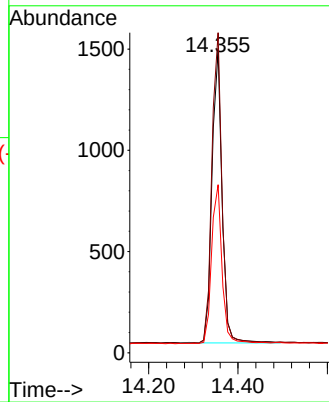
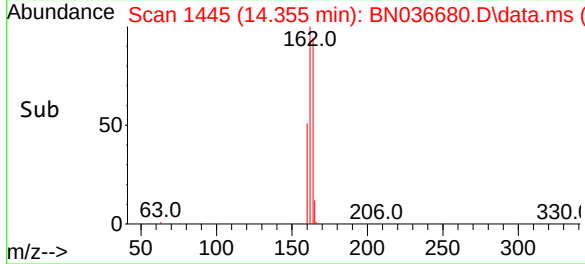
Instrument :
BNA_N
ClientSampleId :
PB167159BSD



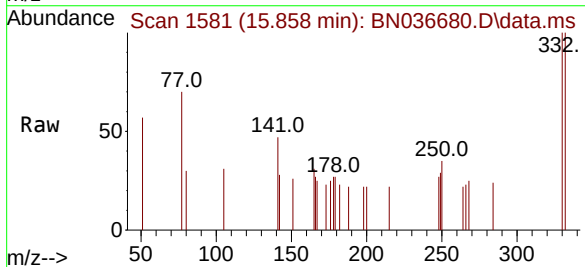
Tgt Ion:164 Resp: 225
Ion Ratio Lower Upper
164 100
162 106.0 84.2 126.2
160 55.7 42.2 63.2

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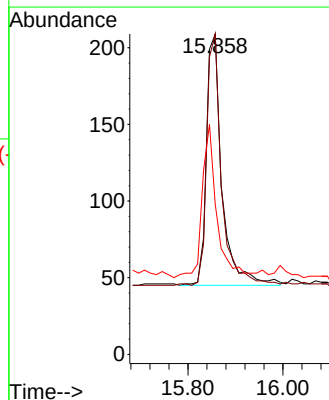
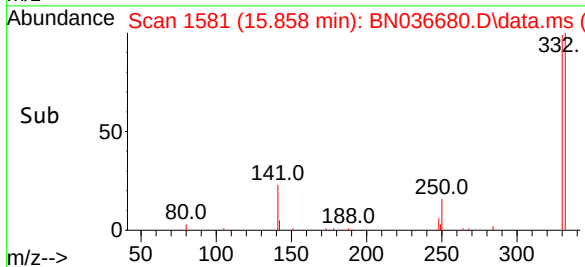
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

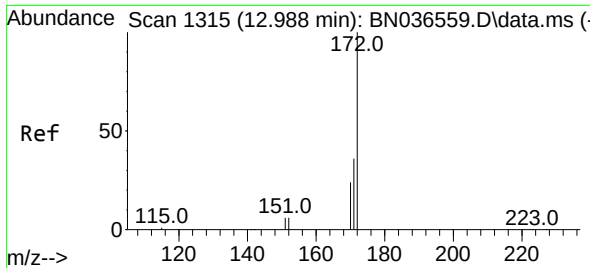


#14
2,4,6-Tribromophenol
Concen: 0.368 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16



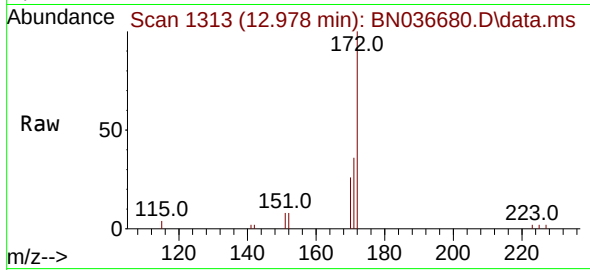
Tgt Ion:330 Resp: 376
Ion Ratio Lower Upper
330 100
332 95.7 75.2 112.8
141 56.4 43.4 65.2





#15
2-Fluorobiphenyl
Concen: 0.434 ng
RT: 12.978 min Scan# 1315
Delta R.T. -0.010 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

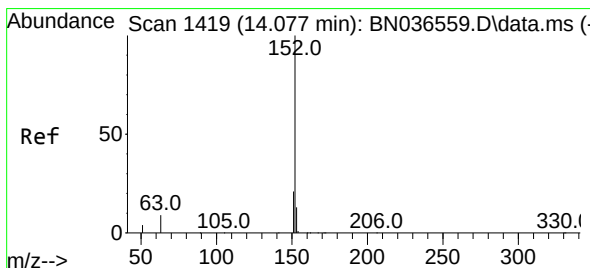
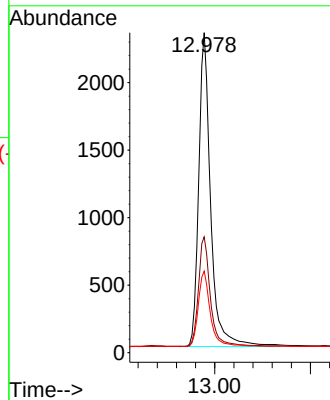
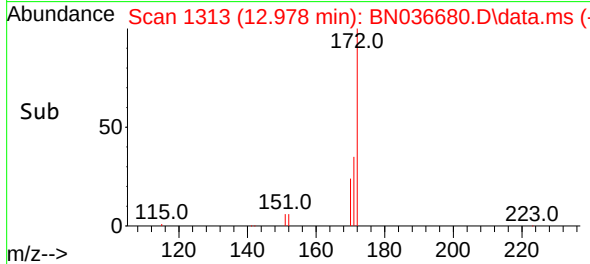
Instrument :
BNA_N
ClientSampleId :
PB167159BSD



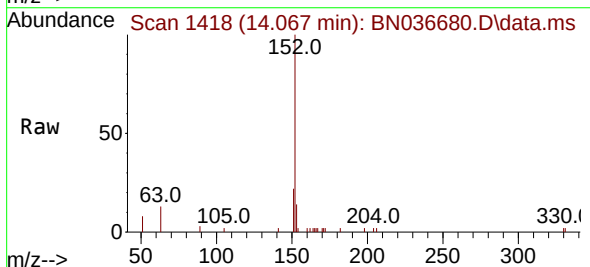
Tgt Ion:172 Resp: 5679
Ion Ratio Lower Upper
172 100
171 36.2 29.5 44.3
170 25.5 20.2 30.4

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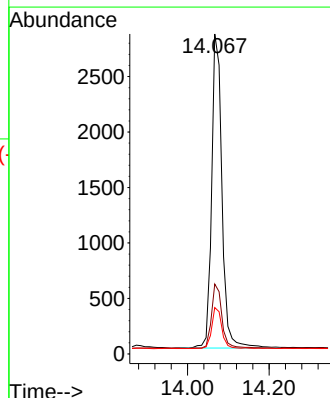
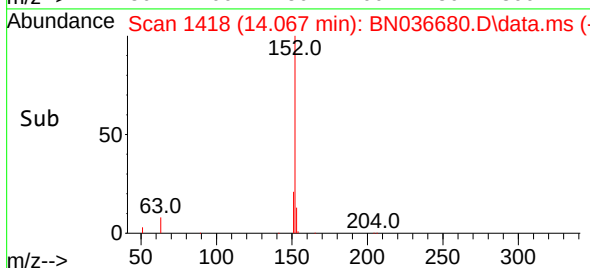
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

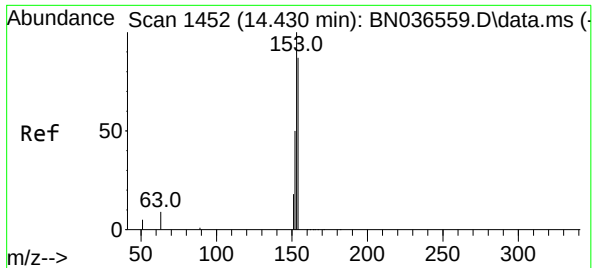


#16
Acenaphthylene
Concen: 0.469 ng
RT: 14.067 min Scan# 1418
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16



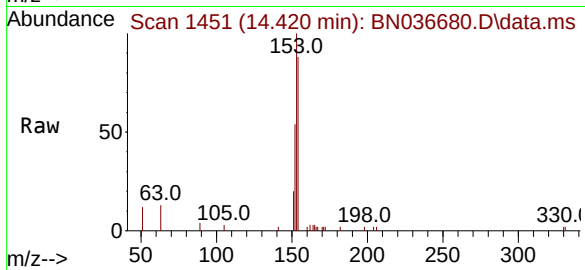
Tgt Ion:152 Resp: 4978
Ion Ratio Lower Upper
152 100
151 20.8 16.2 24.4
153 13.2 10.6 15.8





#17
Acenaphthene
Concen: 0.447 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

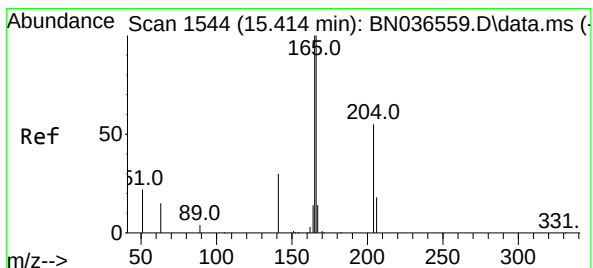
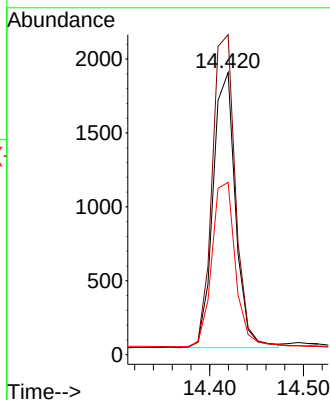
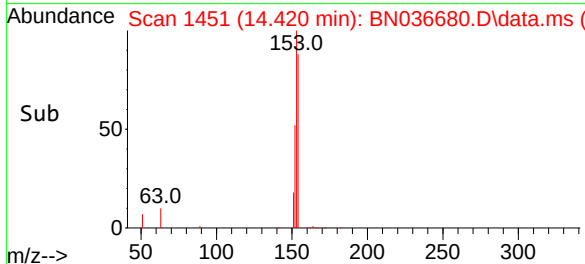
Instrument :
BNA_N
ClientSampleId :
PB167159BSD



Tgt Ion:154 Resp: 3108
Ion Ratio Lower Upper
154 100
153 118.5 94.1 141.1
152 62.8 49.8 74.6

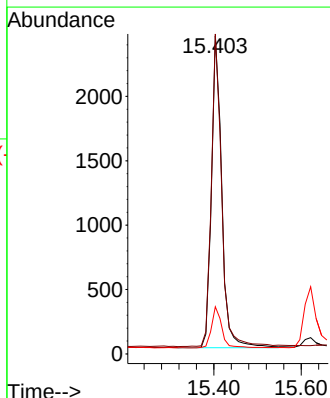
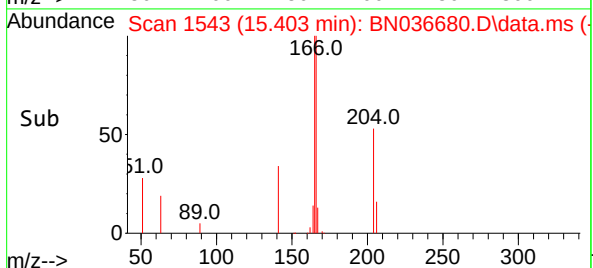
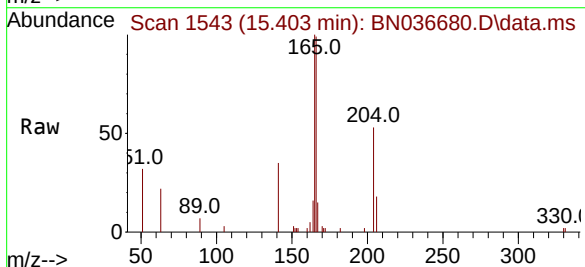
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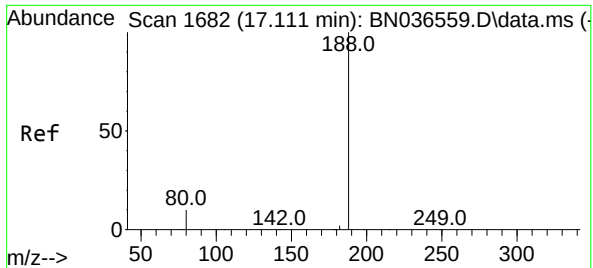
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#18
Fluorene
Concen: 0.431 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:166 Resp: 4054
Ion Ratio Lower Upper
166 100
165 98.7 79.8 119.8
167 13.2 10.6 15.8





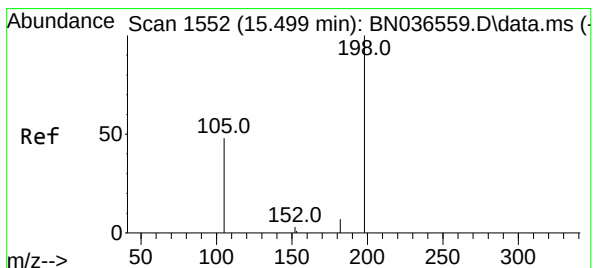
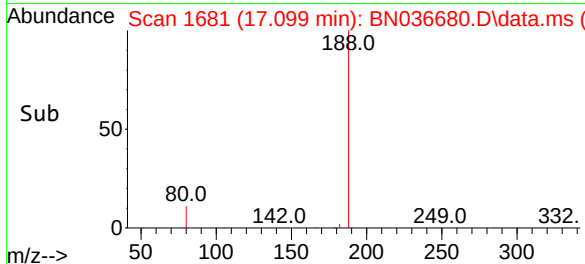
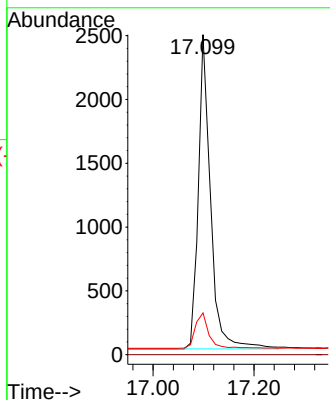
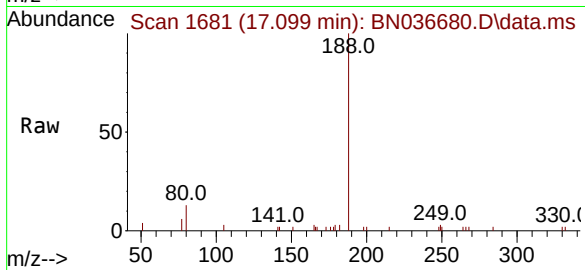
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1682
Delta R.T. -0.012 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Tgt Ion:188 Resp: 415
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.0 8.8 13.2

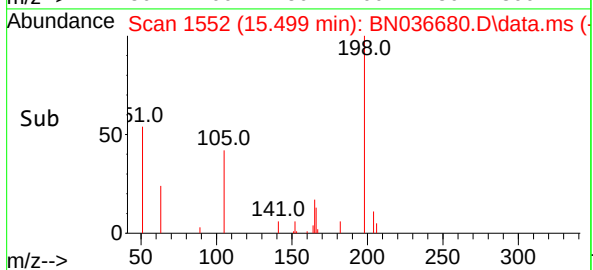
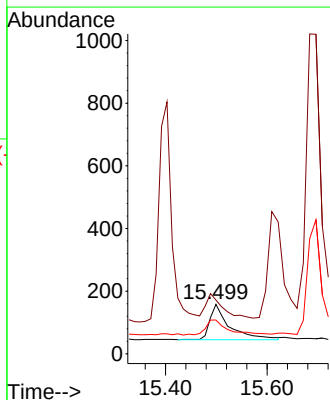
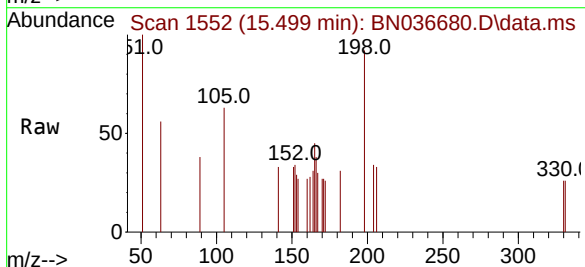
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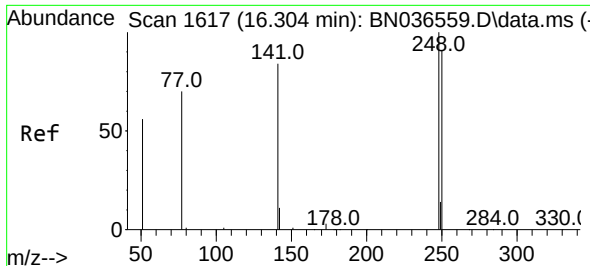
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#20
4,6-Dinitro-2-methylphenol
Concen: 0.439 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

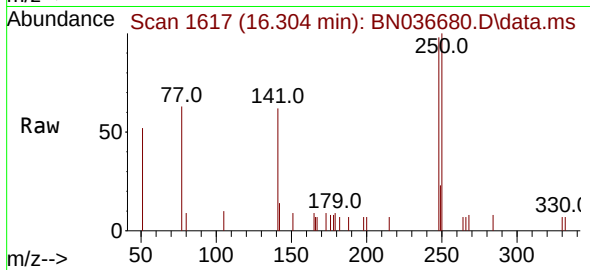
Tgt Ion:198 Resp: 311
Ion Ratio Lower Upper
198 100
51 108.9 107.9 161.9
105 68.4 56.2 84.2





#21
4-Bromophenyl-phenylether
Concen: 0.436 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

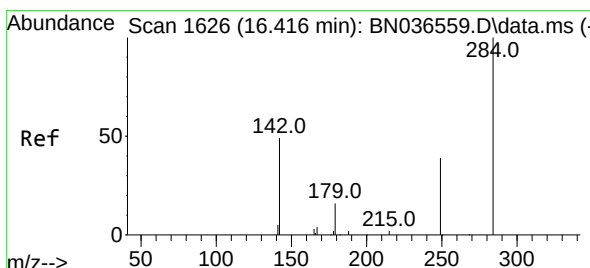
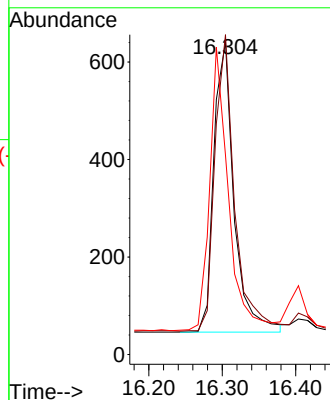
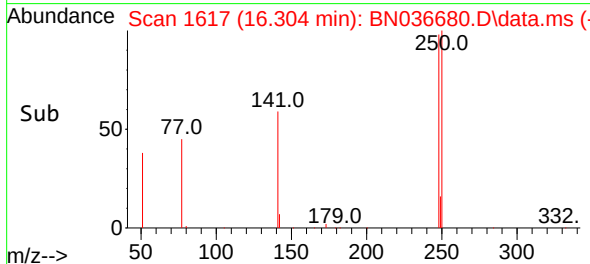
Instrument :
BNA_N
ClientSampleId :
PB167159BSD



Tgt Ion:248 Resp: 113
Ion Ratio Lower Upper
248 100
250 102.3 73.0 109.6
141 63.8 68.6 103.0

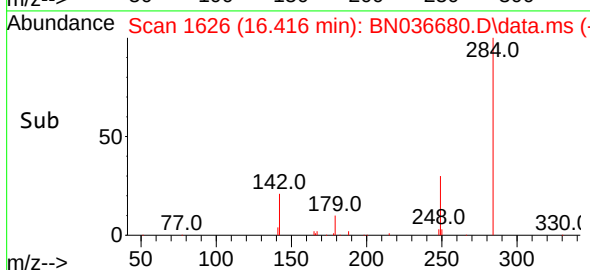
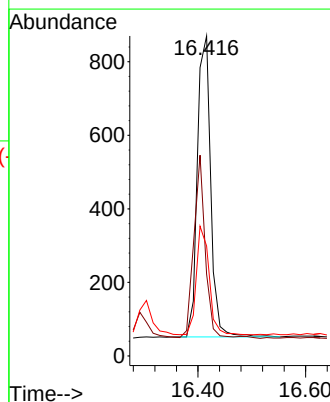
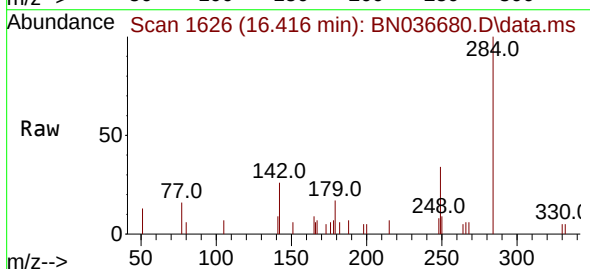
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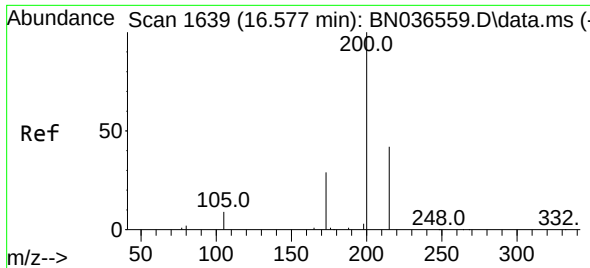
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#22
Hexachlorobenzene
Concen: 0.448 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

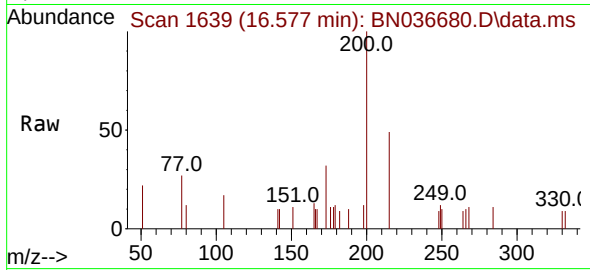
Tgt Ion:284 Resp: 1408
Ion Ratio Lower Upper
284 100
142 52.8 37.0 55.4
249 35.0 28.1 42.1





#23
Atrazine
Concen: 0.481 ng
RT: 16.577 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

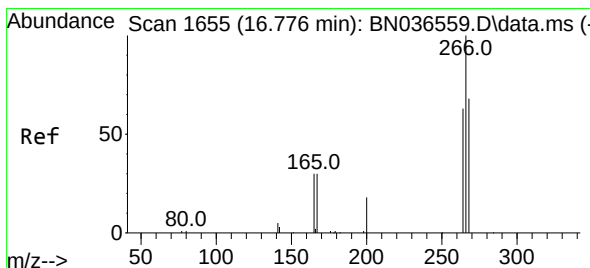
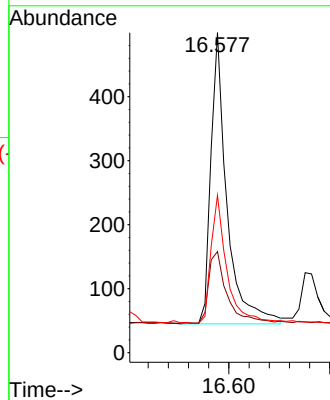
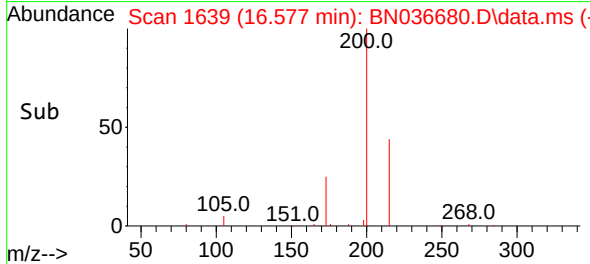
Instrument :
BNA_N
ClientSampleId :
PB167159BSD



Tgt Ion:200 Resp: 100
Ion Ratio Lower Upper
200 100
173 31.6 27.3 40.9
215 49.2 36.8 55.2

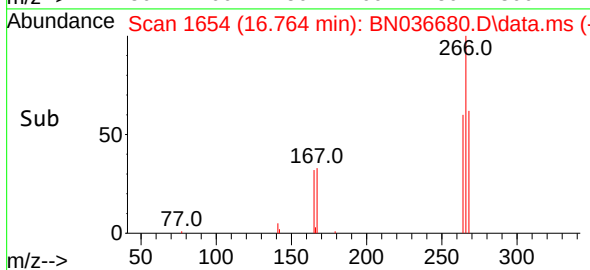
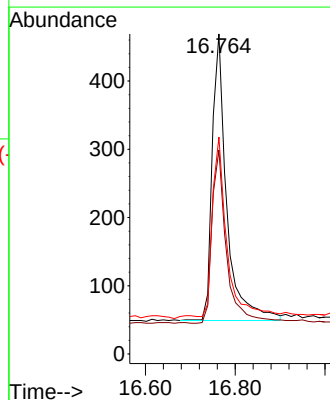
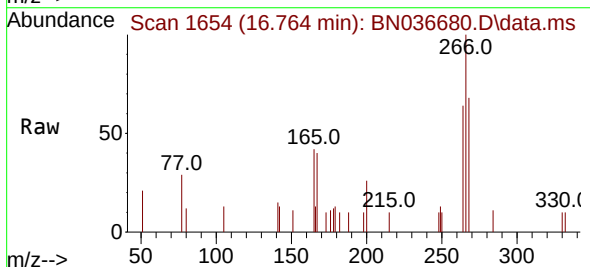
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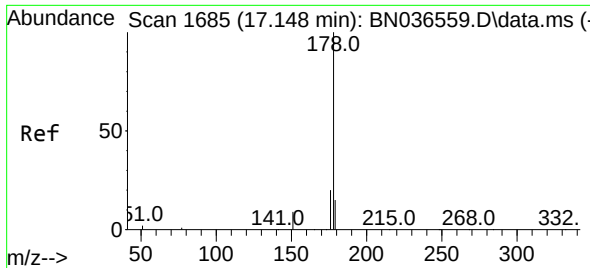
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#24
Pentachlorophenol
Concen: 0.657 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

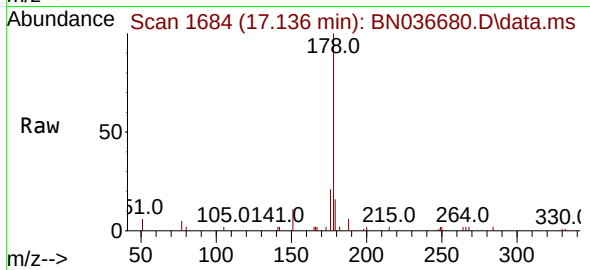
Tgt Ion:266 Resp: 942
Ion Ratio Lower Upper
266 100
264 60.7 49.6 74.4
268 61.6 50.9 76.3





#25
Phenanthrene
Concen: 0.461 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.012 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

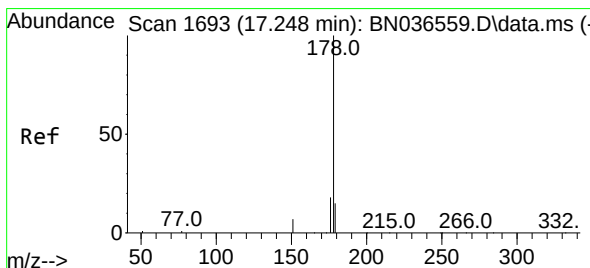
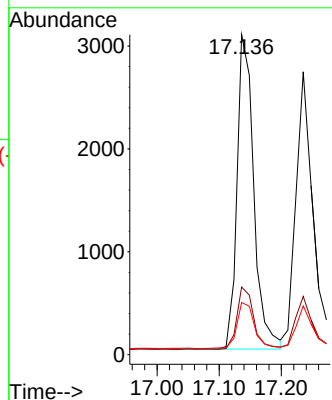
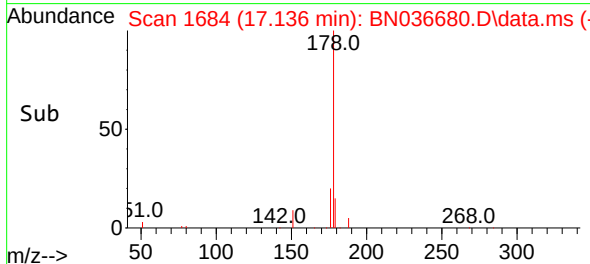
Instrument :
BNA_N
ClientSampleId :
PB167159BSD



Tgt Ion:178 Resp: 574
Ion Ratio Lower Upper
178 100
176 19.8 15.9 23.9
179 15.2 12.2 18.4

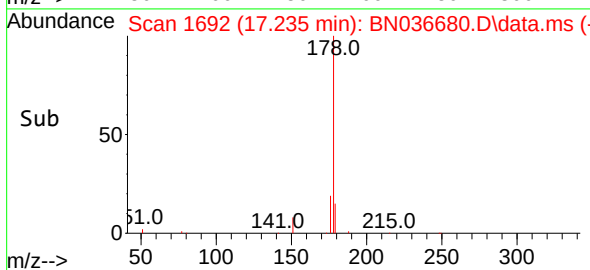
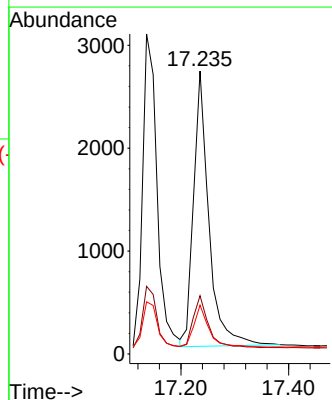
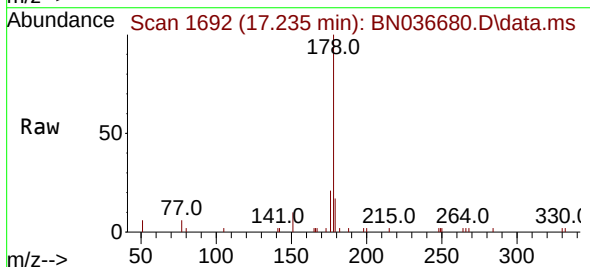
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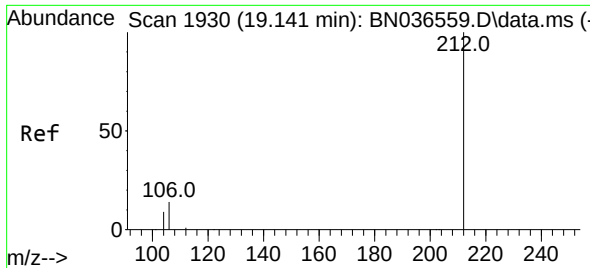
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#26
Anthracene
Concen: 0.471 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:178 Resp: 5301
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.1 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.378 ng

RT: 19.136 min Scan# 1930

Delta R.T. -0.005 min

Lab File: BN036680.D

Acq: 18 Mar 2025 04:16

Instrument :

BNA_N

ClientSampleId :

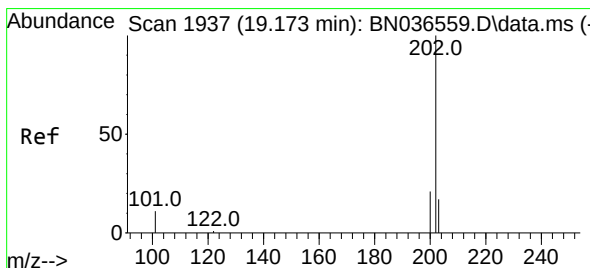
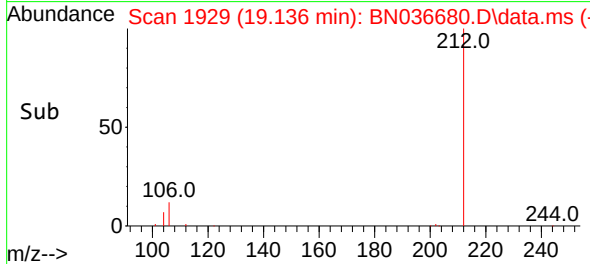
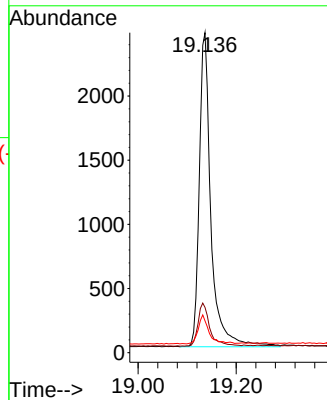
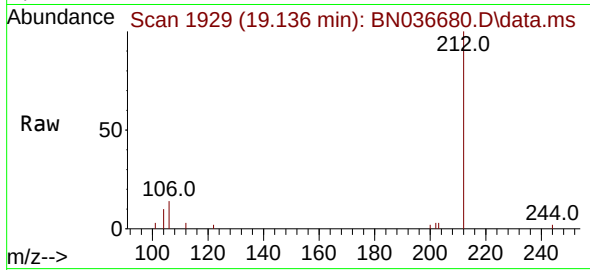
PB167159BSD

Tgt Ion:	212	Resp:	4030
Ion	Ratio	Lower	Upper
212	100		
106	13.8	11.8	17.6
104	8.5	7.3	10.9

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APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#28

Fluoranthene

Concen: 0.420 ng

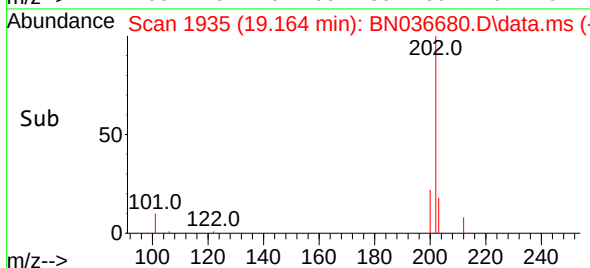
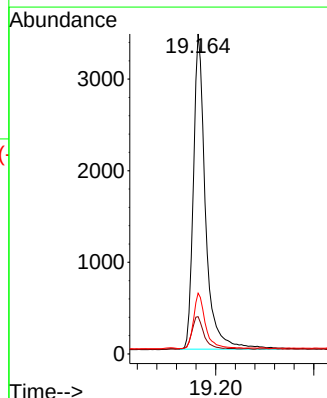
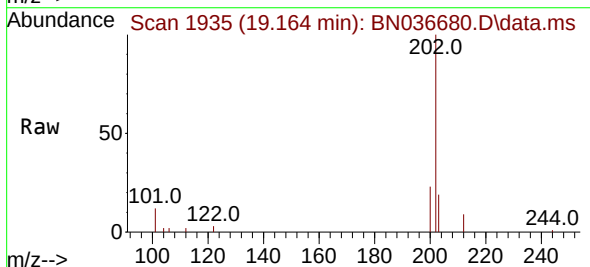
RT: 19.164 min Scan# 1935

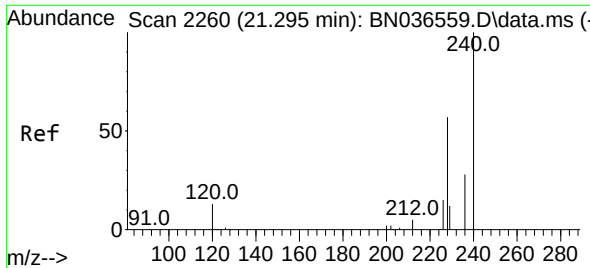
Delta R.T. -0.009 min

Lab File: BN036680.D

Acq: 18 Mar 2025 04:16

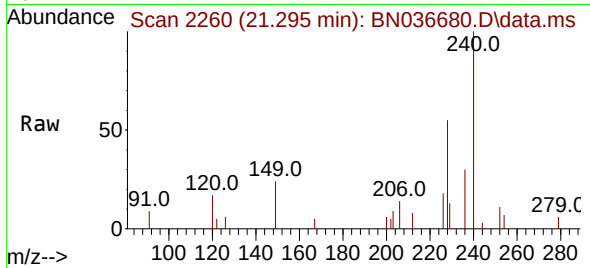
Tgt Ion:	202	Resp:	5883
Ion	Ratio	Lower	Upper
202	100		
101	10.4	9.4	14.0
203	17.0	13.5	20.3





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

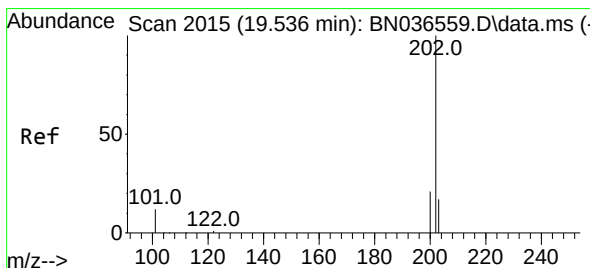
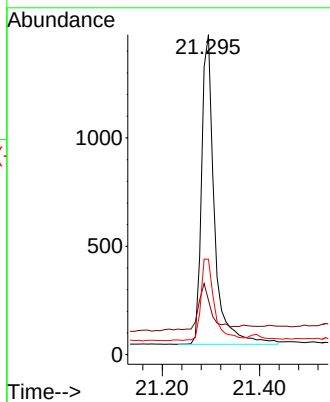
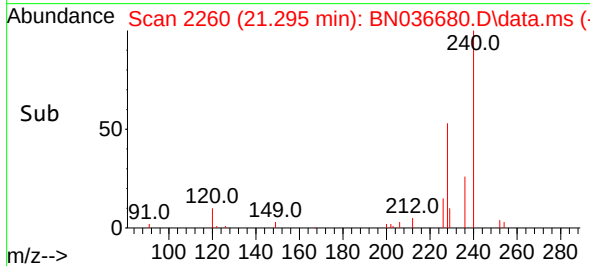
Instrument :
BNA_N
ClientSampleId :
PB167159BSD



Tgt Ion:240 Resp: 262
Ion Ratio Lower Upper
240 100
120 17.1 14.6 22.0
236 29.9 24.1 36.1

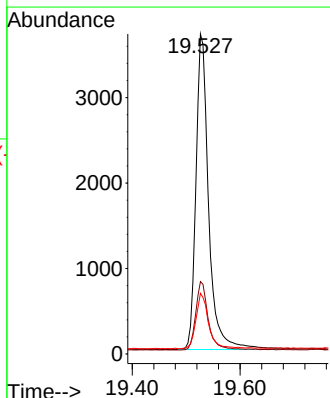
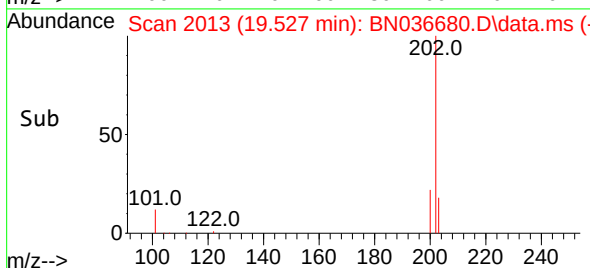
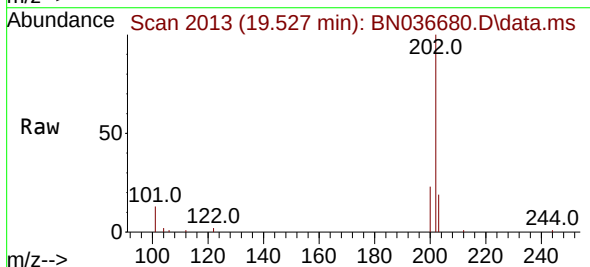
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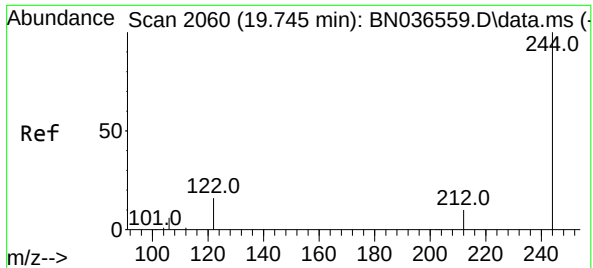
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#30
Pyrene
Concen: 0.470 ng
RT: 19.527 min Scan# 2013
Delta R.T. -0.009 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:202 Resp: 6026
Ion Ratio Lower Upper
202 100
200 21.3 17.1 25.7
203 17.5 14.1 21.1





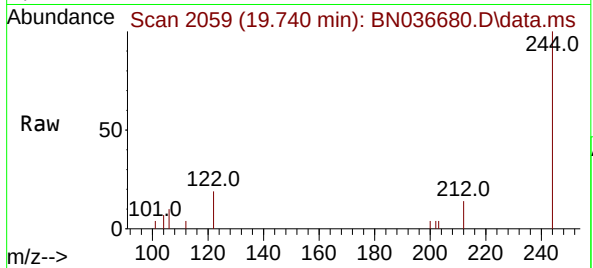
#31
Terphenyl-d14
Concen: 0.429 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :

BNA_N

ClientSampleId :

PB167159BSD

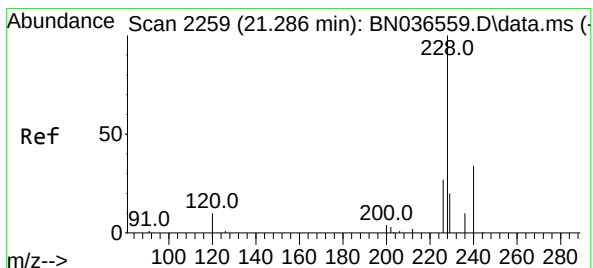
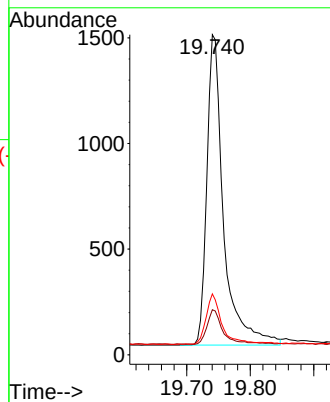
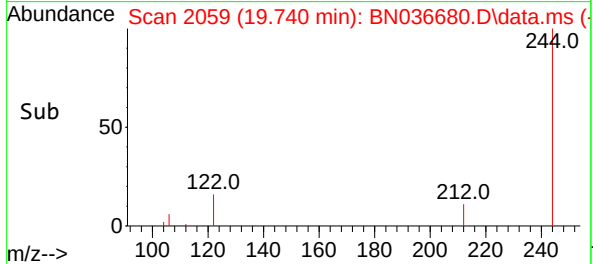


Tgt Ion:244 Resp: 2694
Ion Ratio Lower Upper
244 100
212 14.1 9.6 14.4
122 19.0 13.9 20.9

Manual Integrations

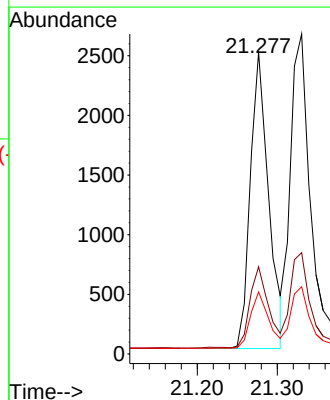
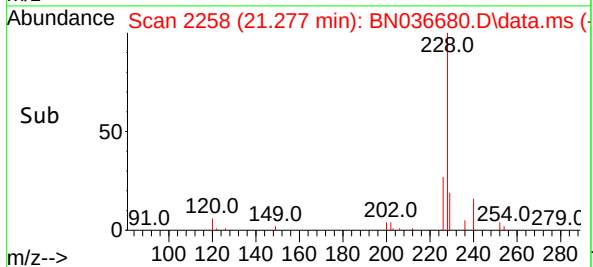
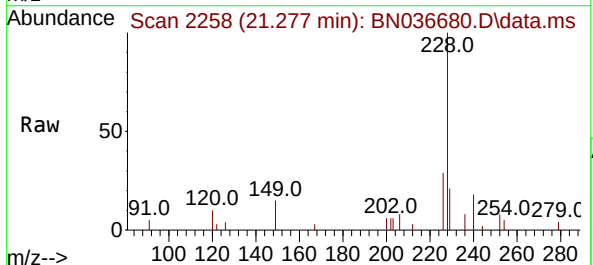
APPROVED

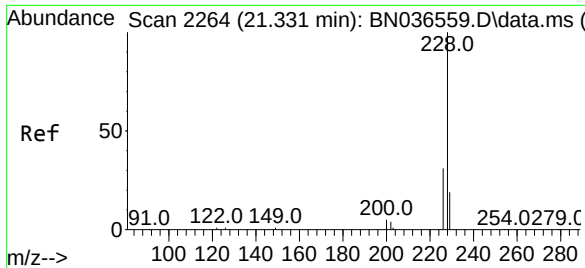
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#32
Benzo(a)anthracene
Concen: 0.434 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

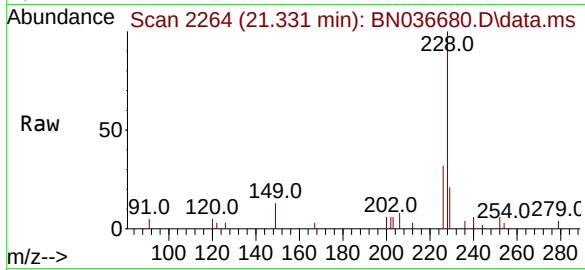
Tgt Ion:228 Resp: 3958
Ion Ratio Lower Upper
228 100
226 28.9 22.5 33.7
229 20.6 16.6 25.0





#33
Chrysene
Concen: 0.482 ng
RT: 21.331 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

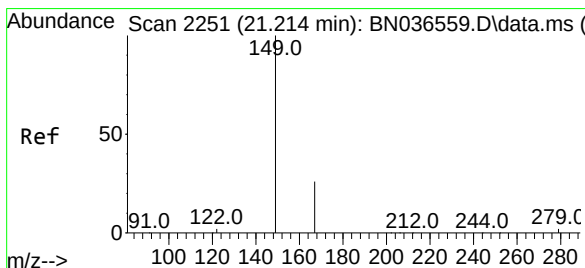
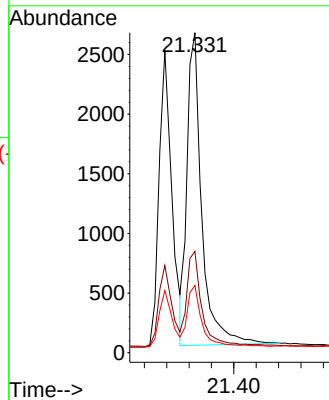
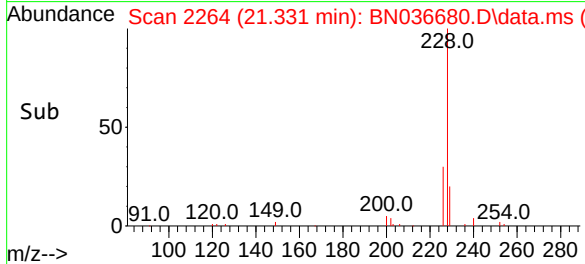
Instrument :
BNA_N
ClientSampleId :
PB167159BSD



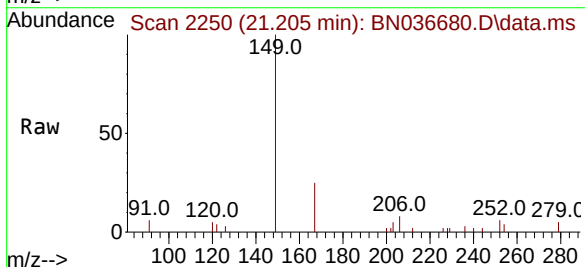
Tgt Ion: 228 Resp: 480
Ion Ratio Lower Upper
228 100
226 31.6 25.3 37.9
229 21.0 15.8 23.8

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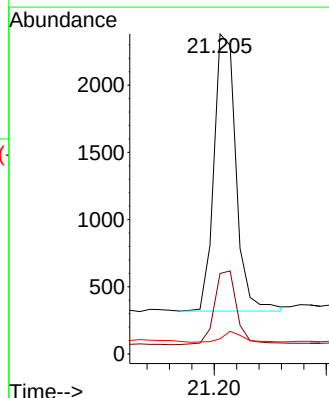
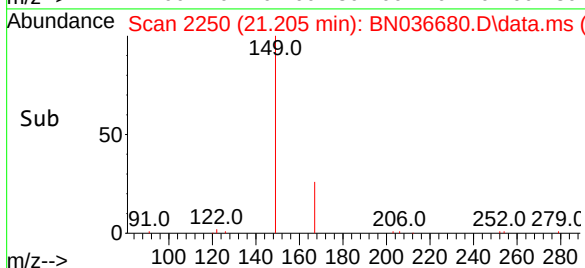
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

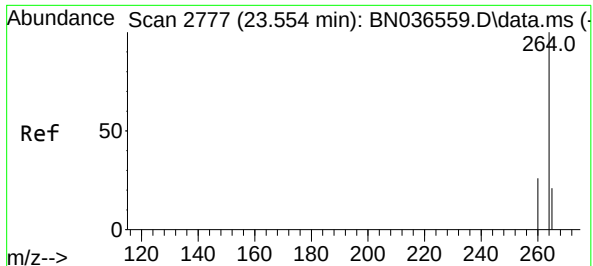


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.433 ng
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16



Tgt Ion: 149 Resp: 2813
Ion Ratio Lower Upper
149 100
167 27.7 20.7 31.1
279 3.8 3.6 5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.543 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN036680.D

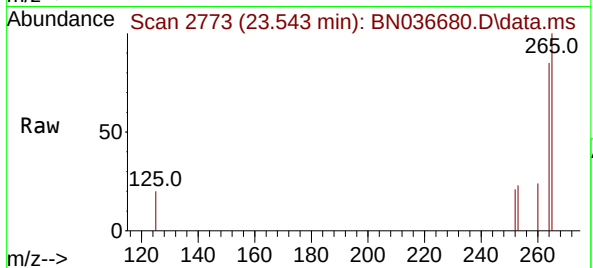
Acq: 18 Mar 2025 04:16

Instrument :

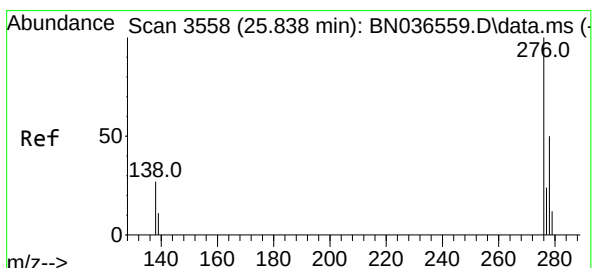
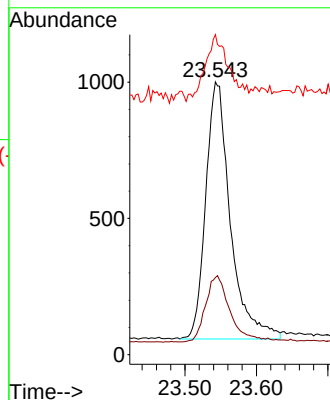
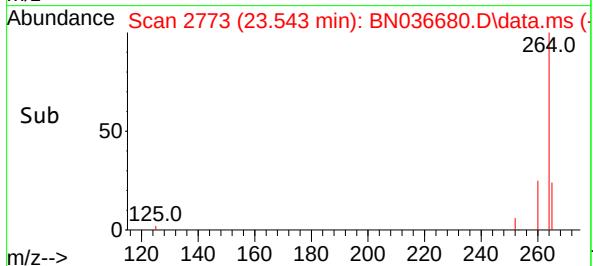
BNA_N

ClientSampleId :

PB167159BSD



Tgt Ion:	264	Resp:	226
Ion Ratio	Lower	Upper	
264	100		
260	28.3	22.6	33.8
265	117.3	88.1	132.1

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

#36

Indeno(1,2,3-cd)pyrene

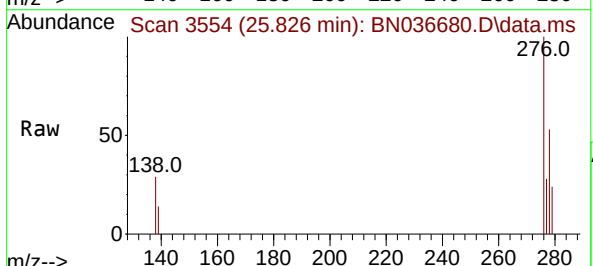
Concen: 0.476 ng

RT: 25.826 min Scan# 3554

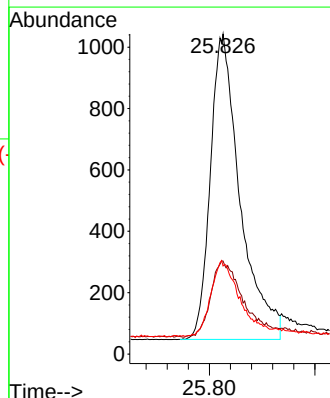
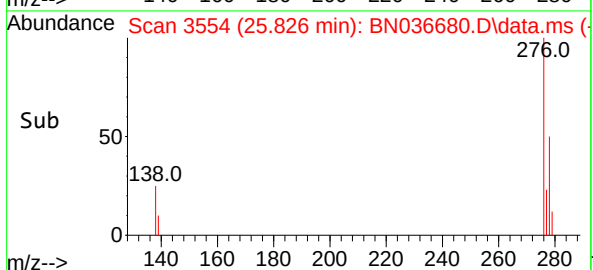
Delta R.T. -0.012 min

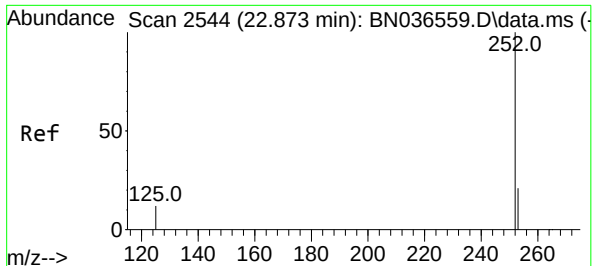
Lab File: BN036680.D

Acq: 18 Mar 2025 04:16



Tgt Ion:	276	Resp:	3886
Ion Ratio	Lower	Upper	
276	100		
138	26.2	23.4	35.2
277	24.2	20.0	30.0





#37

Benzo(b)fluoranthene

Concen: 0.442 ng

RT: 22.864 min Scan# 2541

Delta R.T. -0.009 min

Lab File: BN036680.D

Acq: 18 Mar 2025 04:16

Instrument :

BNA_N

ClientSampleId :

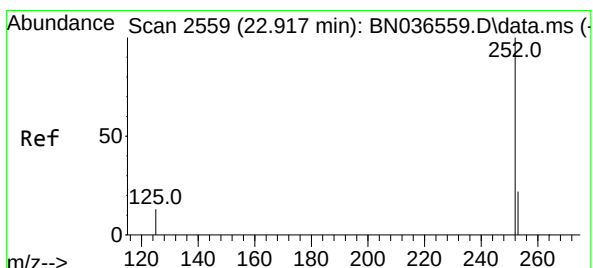
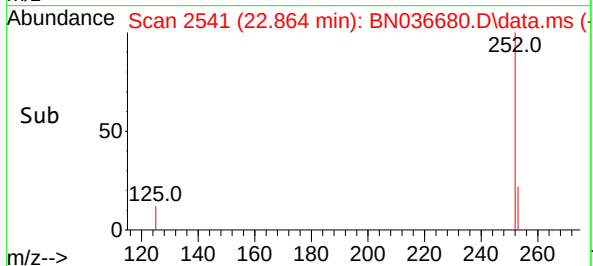
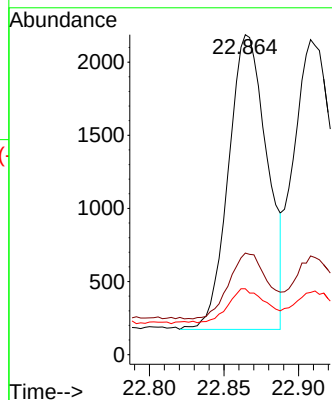
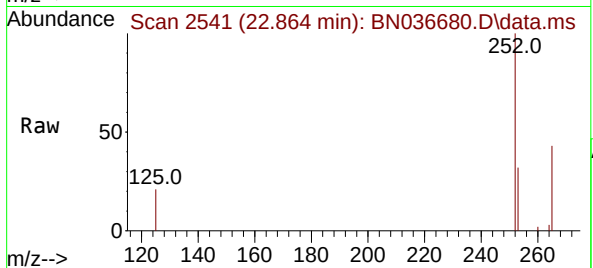
PB167159BSD

Tgt Ion:252 Resp: 3639

Ion	Ratio	Lower	Upper
252	100		
253	31.7	23.9	35.9
125	20.6	17.4	26.2

Manual Integrations
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Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#38

Benzo(k)fluoranthene

Concen: 0.483 ng m

RT: 22.908 min Scan# 2556

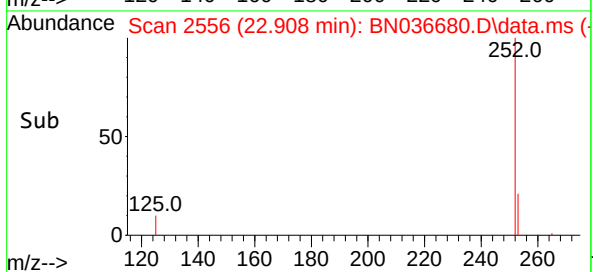
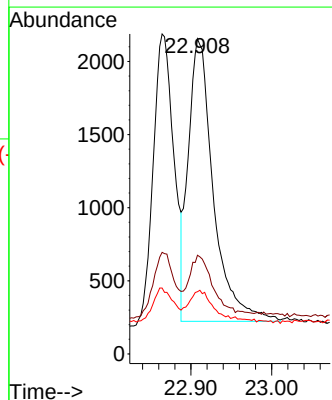
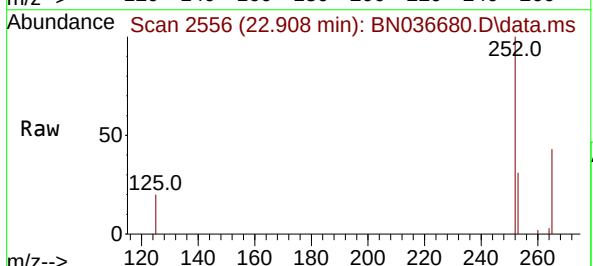
Delta R.T. -0.009 min

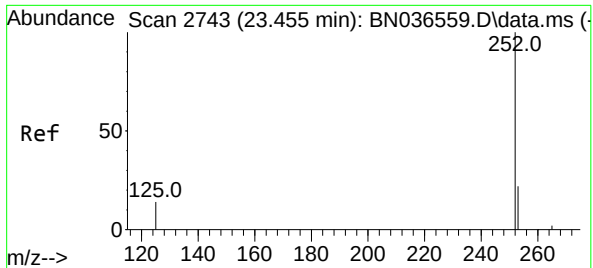
Lab File: BN036680.D

Acq: 18 Mar 2025 04:16

Tgt Ion:252 Resp: 4167

Ion	Ratio	Lower	Upper
252	100		
253	31.3	24.6	36.8
125	19.7	17.8	26.8





#39

Benzo(a)pyrene

Concen: 0.489 ng

RT: 23.446 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036680.D

Acq: 18 Mar 2025 04:16

Instrument :

BNA_N

ClientSampleId :

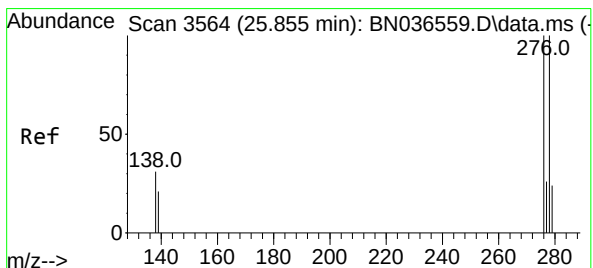
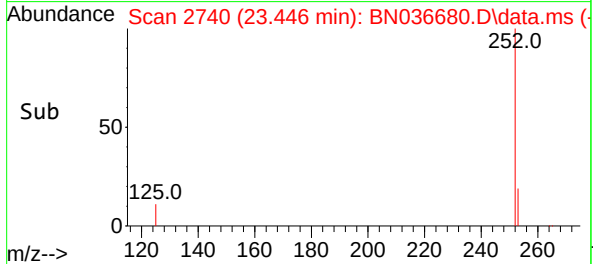
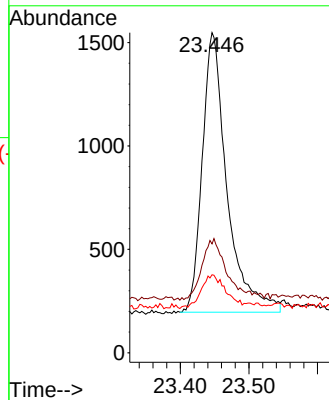
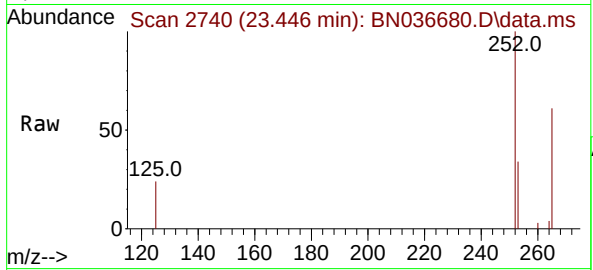
PB167159BSD

Tgt Ion:	252	Resp:	339
Ion Ratio	Lower	Upper	
252	100		
253	34.0	27.8	41.8
125	24.4	22.7	34.1

Manual Integrations

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Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.505 ng

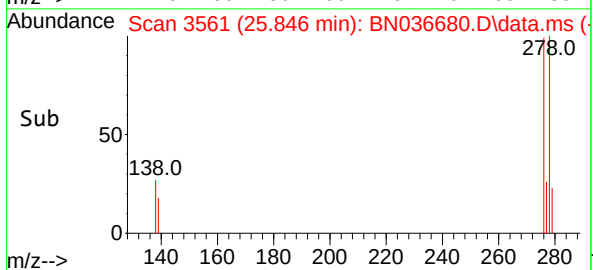
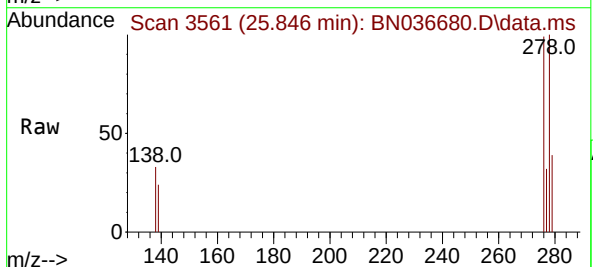
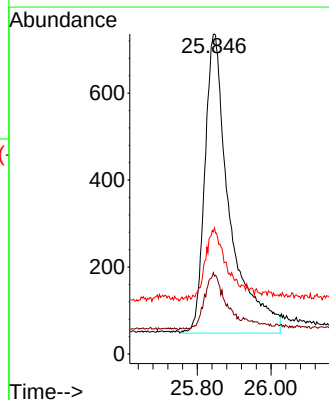
RT: 25.846 min Scan# 3561

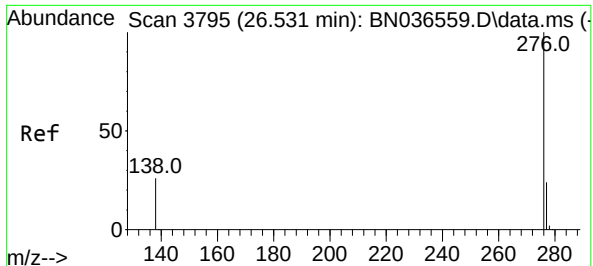
Delta R.T. -0.009 min

Lab File: BN036680.D

Acq: 18 Mar 2025 04:16

Tgt Ion:	278	Resp:	3209
Ion Ratio	Lower	Upper	
278	100		
139	24.3	20.8	31.2
279	39.4	28.8	43.2





#41

Benzo(g,h,i)perylene

Concen: 0.458 ng

RT: 26.516 min Scan# 31

Delta R.T. -0.015 min

Lab File: BN036680.D

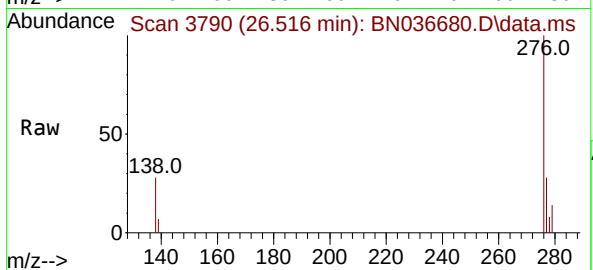
Acq: 18 Mar 2025 04:16

Instrument :

BNA_N

ClientSampleId :

PB167159BSD



Tgt Ion:276 Resp: 3330

Ion Ratio Lower Upper

276 100

277 28.4 22.2 33.4

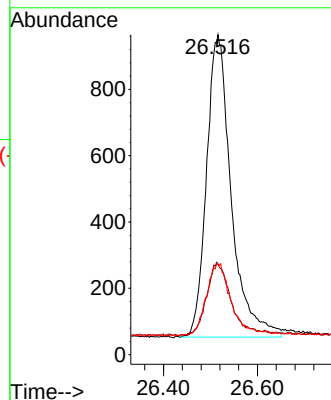
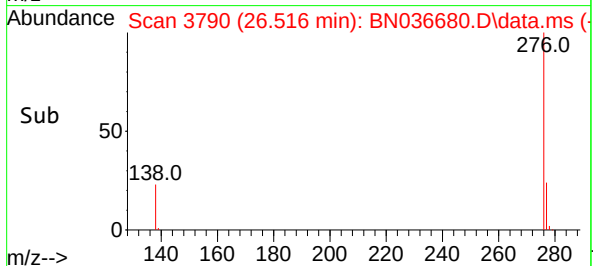
138 28.2 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/18/2025

Supervised By :Jagrut Upadhyay 03/18/2025



Manual Integration Report

Sequence:	BN031025	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN036557.D	1,4-Dioxane	anahy	3/11/2025 9:18:29 AM	Jagrut	3/11/2025 10:27:49 AM	Peak Integrated by Software
SSTDICC0.2	BN036558.D	1,4-Dioxane	anahy	3/11/2025 9:19:12 AM	Jagrut	3/11/2025 10:27:51 AM	Peak Integrated by Software
SSTDCCC0.4	BN036572.D	Benzo(k)fluoranthene	anahy	3/11/2025 9:20:59 AM	Jagrut	3/11/2025 10:27:55 AM	Peak Integrated by Software
SSTDCCC0.4	BN036572.D	Chrysene-d12	anahy	3/11/2025 9:20:59 AM	Jagrut	3/11/2025 10:27:55 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	BN031725	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1582-06	BN036664.D	Benzo(g,h,i)perylene	anahy	3/18/2025 9:59:49 AM	Jagrut	3/18/2025 11:57:19 AM	Peak Integrated by Software
PB167159BS	BN036665.D	2-Methylnaphthalene-d10	anahy	3/18/2025 10:00:56 AM	Jagrut	3/18/2025 11:57:22 AM	Peak Integrated by Software
PB167159BS	BN036665.D	Benzo(k)fluoranthene	anahy	3/18/2025 10:00:56 AM	Jagrut	3/18/2025 11:57:22 AM	Peak Integrated by Software
SSTDCCC0.4	BN036666.D	Benzo(b)fluoranthene	anahy	3/18/2025 10:33:50 AM	Jagrut	3/18/2025 11:57:25 AM	Peak Integrated by Software
SSTDCCC0.4	BN036666.D	Benzo(k)fluoranthene	anahy	3/18/2025 10:33:50 AM	Jagrut	3/18/2025 11:57:25 AM	Peak Integrated by Software
SSTDCCC0.4	BN036668.D	Benzo(b)fluoranthene	anahy	3/18/2025 10:34:34 AM	Jagrut	3/18/2025 11:57:30 AM	Peak Integrated by Software
Q1582-11	BN036674.D	Bis(2-ethylhexyl)phthalate	anahy	3/18/2025 11:03:02 AM	Jagrut	3/18/2025 11:57:35 AM	Peak Integrated by Software
Q1582-15	BN036678.D	Bis(2-ethylhexyl)phthalate	anahy	3/18/2025 11:03:43 AM	Jagrut	3/18/2025 11:57:37 AM	Peak Integrated by Software
PB167159BSD	BN036680.D	2-Methylnaphthalene-d10	anahy	3/18/2025 11:04:52 AM	Jagrut	3/18/2025 11:57:39 AM	Peak Integrated by Software
PB167159BSD	BN036680.D	Benzo(k)fluoranthene	anahy	3/18/2025 11:04:52 AM	Jagrut	3/18/2025 11:57:39 AM	Peak Integrated by Software



Manual Integration Report

Sequence:	BN031825	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN031025

Review By	anahy	Review On	3/11/2025 9:36:11 AM
Supervise By	Jagrut	Supervise On	3/11/2025 10:28:11 AM
SubDirectory	BN031025	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn031025
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036556.D	10 Mar 2025 11:03	RC/JU	Ok
2	SSTDIC0.1	BN036557.D	10 Mar 2025 11:42	RC/JU	Ok,M
3	SSTDIC0.2	BN036558.D	10 Mar 2025 12:18	RC/JU	Ok,M
4	SSTDIC0.4	BN036559.D	10 Mar 2025 12:54	RC/JU	Ok
5	SSTDIC0.8	BN036560.D	10 Mar 2025 13:31	RC/JU	Ok
6	SSTDIC1.6	BN036561.D	10 Mar 2025 14:07	RC/JU	Ok
7	SSTDIC3.2	BN036562.D	10 Mar 2025 14:43	RC/JU	Ok
8	SSTDIC5.0	BN036563.D	10 Mar 2025 15:19	RC/JU	Ok
9	SSTDICV0.4	BN036564.D	10 Mar 2025 16:38	RC/JU	Ok
10	PB167057BL	BN036565.D	10 Mar 2025 17:14	RC/JU	Ok
11	Q1531-03	BN036566.D	10 Mar 2025 17:50	RC/JU	Ok
12	Q1531-04	BN036567.D	10 Mar 2025 18:26	RC/JU	Ok
13	Q1531-05	BN036568.D	10 Mar 2025 19:02	RC/JU	Ok
14	Q1531-06	BN036569.D	10 Mar 2025 19:38	RC/JU	Ok,M
15	Q1531-13	BN036570.D	10 Mar 2025 20:14	RC/JU	Ok
16	Q1531-14	BN036571.D	10 Mar 2025 20:50	RC/JU	Ok
17	SSTDCCC0.4	BN036572.D	10 Mar 2025 21:26	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN031725

Review By	anahy	Review On	3/18/2025 11:05:14 AM
Supervise By	Jagrut	Supervise On	3/18/2025 11:59:32 AM
SubDirectory	BN031725	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn031025
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036650.D	17 Mar 2025 09:10	RC/JU	Ok
2	SSTDCCC0.4	BN036651.D	17 Mar 2025 09:49	RC/JU	Ok
3	PB167128BL	BN036652.D	17 Mar 2025 10:25	RC/JU	Not Ok
4	Q1559-09DL	BN036653.D	17 Mar 2025 11:01	RC/JU	Ok
5	Q1559-01DL	BN036654.D	17 Mar 2025 11:38	RC/JU	Ok
6	Q1559-21DL	BN036655.D	17 Mar 2025 12:13	RC/JU	Ok
7	Q1559-02DL	BN036656.D	17 Mar 2025 12:49	RC/JU	Not Ok
8	Q1559-04DL	BN036657.D	17 Mar 2025 13:26	RC/JU	Ok
9	Q1559-02DL	BN036658.D	17 Mar 2025 14:14	RC/JU	Ok
10	Q1582-01	BN036659.D	17 Mar 2025 14:55	RC/JU	Ok
11	Q1582-02	BN036660.D	17 Mar 2025 15:31	RC/JU	Ok
12	Q1582-03	BN036661.D	17 Mar 2025 16:07	RC/JU	Dilution
13	Q1582-04	BN036662.D	17 Mar 2025 16:43	RC/JU	Ok
14	Q1582-05	BN036663.D	17 Mar 2025 17:19	RC/JU	Ok
15	Q1582-06	BN036664.D	17 Mar 2025 17:55	RC/JU	Dilution
16	PB167159BS	BN036665.D	17 Mar 2025 18:31	RC/JU	Ok,M
17	SSTDCCC0.4	BN036666.D	17 Mar 2025 19:08	RC/JU	Ok,M
18	DFTPP	BN036667.D	17 Mar 2025 20:23	RC/JU	Ok
19	SSTDCCC0.4	BN036668.D	17 Mar 2025 21:02	RC/JU	Ok,M
20	PB167159BL	BN036669.D	17 Mar 2025 21:39	RC/JU	Not Ok
21	Q1582-07	BN036670.D	17 Mar 2025 22:15	RC/JU	Dilution

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN031725

Review By	anahy	Review On	3/18/2025 11:05:14 AM
Supervise By	Jagrut	Supervise On	3/18/2025 11:59:32 AM
SubDirectory	BN031725	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn031025
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q1582-08	BN036671.D	17 Mar 2025 22:51	RC/JU	Ok
23	Q1582-09	BN036672.D	17 Mar 2025 23:27	RC/JU	Ok
24	Q1582-10	BN036673.D	18 Mar 2025 00:03	RC/JU	Ok
25	Q1582-11	BN036674.D	18 Mar 2025 00:39	RC/JU	Ok,M
26	Q1582-12	BN036675.D	18 Mar 2025 01:15	RC/JU	Ok
27	Q1582-13	BN036676.D	18 Mar 2025 01:51	RC/JU	Ok
28	Q1582-14	BN036677.D	18 Mar 2025 02:28	RC/JU	Ok
29	Q1582-15	BN036678.D	18 Mar 2025 03:04	RC/JU	Ok,M
30	Q1582-03DL	BN036679.D	18 Mar 2025 03:40	RC/JU	Ok
31	PB167159BSD	BN036680.D	18 Mar 2025 04:16	RC/JU	Ok,M
32	SSTDCCC0.4	BN036681.D	18 Mar 2025 04:52	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # BN031825

Review By	anahy	Review On	3/19/2025 8:44:41 AM
Supervise By	Jagrut	Supervise On	3/20/2025 5:02:49 PM
SubDirectory	BN031825	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn031025
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036682.D	18 Mar 2025 08:42	RC/JU	Ok
2	SSTDCCC0.4	BN036683.D	18 Mar 2025 09:21	RC/JU	Ok
3	PB167159BL	BN036684.D	18 Mar 2025 09:57	RC/JU	Ok
4	Q1582-06DL	BN036685.D	18 Mar 2025 10:34	RC/JU	Ok
5	Q1582-07DL	BN036686.D	18 Mar 2025 11:10	RC/JU	Ok
6	SSTDCCC0.4	BN036687.D	18 Mar 2025 12:35	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN031025

Review By	anahy	Review On	3/11/2025 9:36:11 AM
Supervise By	Jagrut	Supervise On	3/11/2025 10:28:11 AM
SubDirectory	BN031025	HP Acquire Method	BNA_N, 8270_HP Processing Method bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036556.D	10 Mar 2025 11:03		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN036557.D	10 Mar 2025 11:42	Compound #20 removed.	RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN036558.D	10 Mar 2025 12:18		RC/JU	Ok,M
4	SSTDICCC0.4	SSTDICCC0.4	BN036559.D	10 Mar 2025 12:54		RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN036560.D	10 Mar 2025 13:31		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN036561.D	10 Mar 2025 14:07	Compound #20 kept on QR.	RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN036562.D	10 Mar 2025 14:43	Method is good for DOD.	RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN036563.D	10 Mar 2025 15:19		RC/JU	Ok
9	SSTDICV0.4	ICVBN031025	BN036564.D	10 Mar 2025 16:38		RC/JU	Ok
10	PB167057BL	PB167057BL	BN036565.D	10 Mar 2025 17:14		RC/JU	Ok
11	Q1531-03	RE122D1-20250305	BN036566.D	10 Mar 2025 17:50		RC/JU	Ok
12	Q1531-04	RE126D1-20250306	BN036567.D	10 Mar 2025 18:26		RC/JU	Ok
13	Q1531-05	RE126D2-20250306	BN036568.D	10 Mar 2025 19:02		RC/JU	Ok
14	Q1531-06	DUP01-20250306	BN036569.D	10 Mar 2025 19:38		RC/JU	Ok,M
15	Q1531-13	RE108D1-20250306	BN036570.D	10 Mar 2025 20:14		RC/JU	Ok
16	Q1531-14	RE105D1-20250306	BN036571.D	10 Mar 2025 20:50		RC/JU	Ok
17	SSTDCCC0.4	SSTDCCC0.4EC	BN036572.D	10 Mar 2025 21:26		RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN031725

Review By	anahy	Review On	3/18/2025 11:05:14 AM
Supervise By	Jagrut	Supervise On	3/18/2025 11:59:32 AM
SubDirectory	BN031725	HP Acquire Method	BNA_N, 8270_HP Processing Method bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036650.D	17 Mar 2025 09:10		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036651.D	17 Mar 2025 09:49		RC/JU	Ok
3	PB167128BL	PB167128BL	BN036652.D	17 Mar 2025 10:25	Not Used	RC/JU	Not Ok
4	Q1559-09DL	DUP03-20250310DL	BN036653.D	17 Mar 2025 11:01		RC/JU	Ok
5	Q1559-01DL	RE115D1-20250310DL	BN036654.D	17 Mar 2025 11:38		RC/JU	Ok
6	Q1559-21DL	RE120D3-20250312DL	BN036655.D	17 Mar 2025 12:13		RC/JU	Ok
7	Q1559-02DL	RE115D2-20250310DL	BN036656.D	17 Mar 2025 12:49	Make a fresh Dilution and run Dilution again	RC/JU	Not Ok
8	Q1559-04DL	RE134D3-20250310DL	BN036657.D	17 Mar 2025 13:26		RC/JU	Ok
9	Q1559-02DL	RE115D2-20250310DL	BN036658.D	17 Mar 2025 14:14		RC/JU	Ok
10	Q1582-01	RE117D1-20250313	BN036659.D	17 Mar 2025 14:55		RC/JU	Ok
11	Q1582-02	TT180D1-20250313	BN036660.D	17 Mar 2025 15:31		RC/JU	Ok
12	Q1582-03	TT180D2-20250313	BN036661.D	17 Mar 2025 16:07	Need 2X dilution	RC/JU	Dilution
13	Q1582-04	TT180D-20250313	BN036662.D	17 Mar 2025 16:43		RC/JU	Ok
14	Q1582-05	FB02-20250313	BN036663.D	17 Mar 2025 17:19		RC/JU	Ok
15	Q1582-06	RE131D1-20250313	BN036664.D	17 Mar 2025 17:55	Need 5X Dilution	RC/JU	Dilution
16	PB167159BS	PB167159BS	BN036665.D	17 Mar 2025 18:31		RC/JU	Ok,M
17	SSTDCCC0.4	SSTDCCC0.4EC	BN036666.D	17 Mar 2025 19:08		RC/JU	Ok,M

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN031725

Review By	anahy	Review On	3/18/2025 11:05:14 AM
Supervise By	Jagrut	Supervise On	3/18/2025 11:59:32 AM
SubDirectory	BN031725	HP Acquire Method	BNA_N, 8270_HP Processing Method bn031025
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

18	DFTPP	DFTPP	BN036667.D	17 Mar 2025 20:23		RC/JU	Ok
19	SSTDCCC0.4	SSTDCCC0.4	BN036668.D	17 Mar 2025 21:02		RC/JU	Ok,M
20	PB167159BL	PB167159BL	BN036669.D	17 Mar 2025 21:39	Not Used	RC/JU	Not Ok
21	Q1582-07	RE131D2-20250313	BN036670.D	17 Mar 2025 22:15	Need 5X Dilution	RC/JU	Dilution
22	Q1582-08	RE131D3-20250313	BN036671.D	17 Mar 2025 22:51		RC/JU	Ok
23	Q1582-09	TT119S1-20250313	BN036672.D	17 Mar 2025 23:27		RC/JU	Ok
24	Q1582-10	RE114D1-20250313	BN036673.D	18 Mar 2025 00:03		RC/JU	Ok
25	Q1582-11	BPOW1-7-20250314	BN036674.D	18 Mar 2025 00:39		RC/JU	Ok,M
26	Q1582-12	BPOW1-8-20250314	BN036675.D	18 Mar 2025 01:15		RC/JU	Ok
27	Q1582-13	TT191D1-20250314	BN036676.D	18 Mar 2025 01:51		RC/JU	Ok
28	Q1582-14	TT191D2-20250314	BN036677.D	18 Mar 2025 02:28		RC/JU	Ok
29	Q1582-15	DUP06-20250314	BN036678.D	18 Mar 2025 03:04		RC/JU	Ok,M
30	Q1582-03DL	TT180D2-20250313DL	BN036679.D	18 Mar 2025 03:40		RC/JU	Ok
31	PB167159BSD	PB167159BSD	BN036680.D	18 Mar 2025 04:16		RC/JU	Ok,M
32	SSTDCCC0.4	SSTDCCC0.4EC	BN036681.D	18 Mar 2025 04:52		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN031825

Review By	anahy	Review On	3/19/2025 8:44:41 AM
Supervise By	Jagrut	Supervise On	3/20/2025 5:02:49 PM
SubDirectory	BN031825	HP Acquire Method	BNA_N, 8270_HP Processing Method bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036682.D	18 Mar 2025 08:42		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036683.D	18 Mar 2025 09:21		RC/JU	Ok
3	PB167159BL	PB167159BL	BN036684.D	18 Mar 2025 09:57		RC/JU	Ok
4	Q1582-06DL	RE131D1-20250313DL	BN036685.D	18 Mar 2025 10:34		RC/JU	Ok
5	Q1582-07DL	RE131D2-20250313DL	BN036686.D	18 Mar 2025 11:10		RC/JU	Ok
6	SSTDCCC0.4	SSTDCCC0.4EC	BN036687.D	18 Mar 2025 12:35		RC/JU	Ok

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 03/17/2025

Extraction Start Time : 08:48

Extraction End Date : 03/17/2025

Extraction End Time : 14:00

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: ☒ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6739
Surrogate	1.0ML	0.4 PPM	SP6741
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	E3904
Baked Na2SO4	N/A	EP2593
10N NaOH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/17/25	RS (B4 Lab)	R/SVOC
14:05	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 03/17/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167159BL	SBLK159	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			SEP-1
PB167159BS	SLCS159	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			2
PB167159BS D	SLCSD159	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			3
Q1582-01	RE117D1-20250313	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		4
Q1582-02	TT180D1-20250313	SVOC-SIMGrou p1	940	6	RUPESH	ritesh	1	C		5
Q1582-03	TT180D2-20250313	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		6
Q1582-04	TT180D-20250313	SVOC-SIMGrou p1	980	6	RUPESH	ritesh	1	C		7
Q1582-05	FB02-20250313	SVOC-SIMGrou p1	960	6	RUPESH	ritesh	1	C		8
Q1582-06	RE131D1-20250313	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	C		9
Q1582-07	RE131D2-20250313	SVOC-SIMGrou p1	950	6	RUPESH	ritesh	1	C		10
Q1582-08	RE131D3-20250313	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		11
Q1582-09	TT119S1-20250313	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		12
Q1582-10	RE114D1-20250313	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		13
Q1582-11	BPOW1-7-20250314	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		14
Q1582-12	BPOW1-8-20250314	SVOC-SIMGrou p1	960	6	RUPESH	ritesh	1	C		15
Q1582-13	TT191D1-20250314	SVOC-SIMGrou p1	950	6	RUPESH	ritesh	1	C		16
Q1582-14	TT191D2-20250314	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		17
Q1582-15	DUP06-20250314	SVOC-SIMGrou p1	980	6	RUPESH	ritesh	1	C		18

* Extracts relinquished on the same date as received.



WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1582

WorkList ID : 188313

Department : Extraction

Date : 03-17-2025 08:42:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1582-01	RE117D1-20250313	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-02	TT180D1-20250313	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-03	TT180D2-20250313	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-04	TT180D-20250313	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-05	FB02-20250313	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-06	RE131D1-20250313	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-07	RE131D2-20250313	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-08	RE131D3-20250313	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-09	TT119S1-20250313	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-10	RE114D1-20250313	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-11	BPOW1-7-20250314	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-12	BPOW1-8-20250314	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-13	TT191D1-20250314	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-14	TT191D2-20250314	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-15	DUP06-20250314	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified

Date/Time 3/17/25 8:42

Raw Sample Received by: RS (Ext-Lab)

Raw Sample Relinquished by: CP

Q1582-SVOC-SIMGroup1

Date/Time 3/17/25 9:25

Raw Sample Received by: CP

Raw Sample Relinquished by: RS (Ext-Lab)

Prep Standard - Chemical Standard Summary

Order ID : Q1582
Test : SVOC-SIMGroup1
Prepbatch ID : PB167159,
Sequence ID/Qc Batch ID: BN031725,BN031825,

Standard ID :
EP2559,EP2565,EP2593,SP6682,SP6683,SP6684,SP6717,SP6730,SP6731,SP6732,SP6733,SP6734,SP6735,SP6736,SP6738,SP6739,SP6740,SP6741,

Chemical ID :
1ul/100ul
sample,E3551,E3657,E3828,E3871,E3873,E3874,E3904,M5173,S10104,S10246,S11074,S11495,S11650,S11785,S11831,S11832,S12114,S12142,S12189,S12208,S12270,S12328,S12469,S12478,S12517,S12525,S12651,S12791,S12966,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	EP2559	11/14/2024	05/14/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024

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	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024

FROM 1000.00000ml of M5173 + 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	EP2593	03/07/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 03/07/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6682	11/15/2024	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.10000ml of S12328 + 4.90000ml of E3828 = Final Quantity: 5.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6683	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
SOURCE FROM 0.00630ml of S12189 + 0.01280ml of S12208 + 0.03200ml of S11074 + 0.03200ml of S11831 + 0.06400ml of S12142 + 0.06400ml of S12469 + 0.06400ml of S12517 + 19.72490ml of E3828 = Final Quantity: 20.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6684	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
SOURCE FROM 0.87500ml of E3828 + 0.01000ml of SP6682 + 0.12500ml of SP6683 = 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>
3895	50 ug/ml DFTPP 8270E	SP6717	01/15/2025	03/31/2025	Rahul Chavli	None	None	Yogesh Patel
								01/16/2025

FROM 1.00000ml of S10246 + 19.00000ml of E3871 = Final Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3339	8270 sim calibration stock 10ppm (CPI)	SP6730	02/04/2025	05/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								02/07/2025

FROM 0.03350ml of S10104 + 0.05000ml of S11495 + 0.12500ml of S11832 + 0.12500ml of S12114 + 0.25000ml of S12270 + 0.25000ml of S12791 + 24.16650ml of E3874 = 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	SP6731	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml of SP6730 = 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	SP6732	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.68000ml of E3874 + 0.01000ml of SP6682 + 0.32000ml of SP6730 = 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	SP6733	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.84000ml of E3874 + 0.01000ml of SP6682 + 0.16000ml of SP6730 = 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	SP6734	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.92000ml of E3874 + 0.01000ml of SP6682 + 0.08000ml of SP6730 = 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	SP6735	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.96000ml of E3874 + 0.01000ml of SP6682 + 0.04000ml of SP6730 = 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	SP6736	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml of SP6735 = 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	SP6738	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.75000ml of E3874 + 0.01000ml of SP6682 + 0.25000ml of SP6735 = 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	SP6739	02/05/2025	07/29/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.00080ml of S11650 + 0.01000ml of S11785 + 0.02000ml of S12478 + 0.02000ml of S12525 + 0.02000ml of S12966 + 49.92920ml of E3873 = 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>
3493	Internal Standard 0.4 PPM	SP6740	02/13/2025	07/30/2025	Rahul Chavli	None	None	Yogesh Patel
								02/28/2025

FROM 0.10000ml of S12651 + 4.90000ml of E3874 = Final Quantity: 5.000 ml

<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	SP6741	02/20/2025	04/10/2025	Rahul Chavli	None	None	mohammad ahmed
								02/28/2025

FROM 0.00400ml of S12189 + 0.00800ml of S12208 + 0.02000ml of S11832 + 99.96800ml of E3873 = Final Quantity: 100.000 ml

CHEMICAL RECEIPT LOG BOOK

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

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

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	07/14/2025	01/14/2025 / Rajesh	12/27/2024 / Rajesh	E3871

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	07/29/2025	01/29/2025 / Rajesh	01/29/2025 / Rajesh	E3873

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	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-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 / RUPESH	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	07/30/2025	01/30/2025 / anahy	12/09/2021 / Christian	S10104

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0182667	03/31/2025	01/15/2025 / Rahul	03/18/2022 / Christian	S10246

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	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074

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	05/12/2025	11/12/2024 / Jagrut	08/11/2023 / Yogesh	S11495

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	07/29/2025	01/29/2025 / anahy	11/09/2023 / Yogesh	S11650

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11785

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	04/11/2025	10/11/2024 / Jagrut	11/21/2023 / rahul	S11831

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	07/24/2025	01/24/2025 / anahy	11/21/2023 / rahul	S11832

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	05/12/2025	11/12/2024 / Jagrut	03/08/2024 / Rahul	S12114

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]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12142

CHEMICAL RECEIPT LOG BOOK

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	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189

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	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208

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	07/30/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12270

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	A0206540	05/13/2025	11/13/2024 / anahy	05/30/2024 / Rahul	S12328

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	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

[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	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12478

[CS 4978-1]

CHEMICAL RECEIPT LOG BOOK

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	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

[CS 4978-2]

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	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12525

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0212266	08/07/2025	02/07/2025 / anahy	09/20/2024 / anahy	S12651

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	06/21/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12791

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	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12966

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090	440246	≤ -10 °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 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: _____

Erica Castiglione
Chemist



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
03/10/22
by
CG
S10242
to
S10247

Catalog No. : 31615 **Lot No.:** A0182667

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 : March 31, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachlorophenol CAS # 87-86-5 (Lot 211229RSR) Purity 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) CAS # 5074-71-5 (Lot Q117-147) Purity 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine CAS # 92-87-5 (Lot 211228JLM) Purity 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

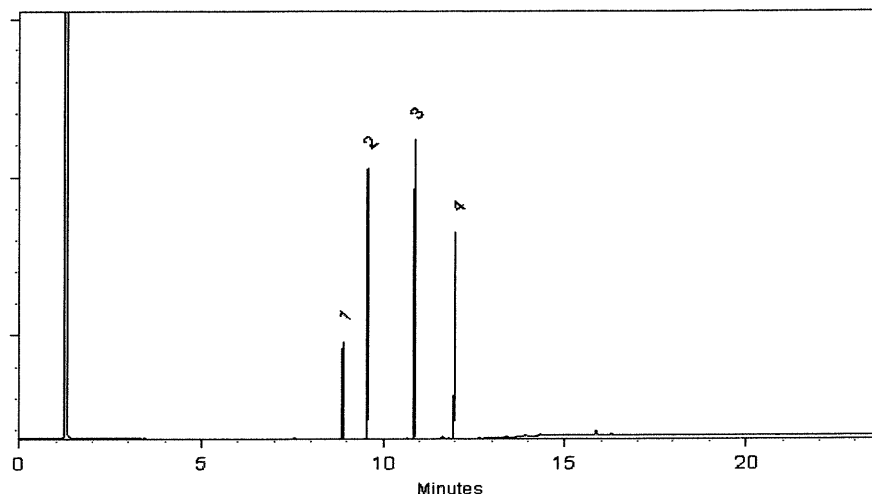
Carrier Gas:
hydrogen-constant pressure 10 psi.

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



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.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022

Balance: B345965662

Marlene Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
02/08/23

b1
CG

S 11071
to
S 11075

Catalog No. : 31853 Lot No.: A0187043
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2027 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,4-Dioxane CAS # 123-91-1 Purity 99% (Lot SHBN5929)	2,019.0 µg/mL	+/- 11.8486 µg/mL Gravimetric +/- 43.2570 µg/mL Unstressed +/- 44.5129 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

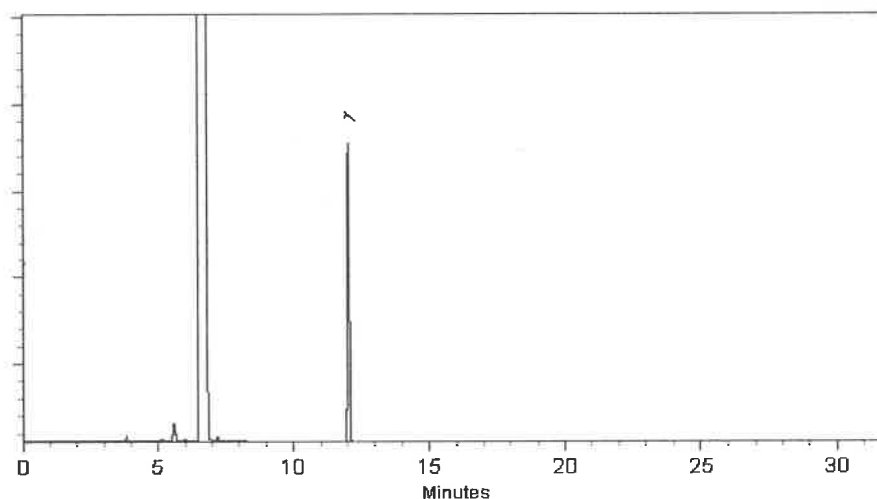
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



**PRODUCTOS
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MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3



Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	$\leq 0.005 \%$	$< 0.005 \%$	PASS
Chloride	$\leq 0.005 \%$	0.002 %	PASS
Heavy Metals	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Iron	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Magnesium	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Mercury	$\leq 0.1 \text{ ppm}$	$< 0.1 \text{ ppm}$	PASS
Nickel	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Nitrogen Compounds	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Phosphate	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Potassium	$\leq 0.02 \%$	$< 0.02 \%$	PASS
Purity	$\geq 97.0 \%$	99.2 %	PASS
Sodium Carbonate	$\leq 1.0 \%$	0.5 %	PASS
Sulfate	$\leq 0.003 \%$	$< 0.003 \%$	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

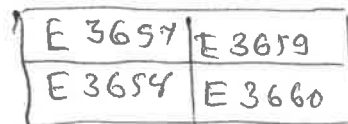
This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™



Material No.: 9266-A4

Batch No.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date: 2025-12-12

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
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	0.2 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 3828

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)

avantor



Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date: 2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0%
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	0.0
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 3871

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	<= 0.3	0.2
Titration Base (μeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 1/29/25

E 3873

Jamie Croak

Director Quality Operations, Bioscience Production

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

Avantor

Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3874



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date: 2026-01-07
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 ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μ eq/g)	≤ 0.3	0.0
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

E3904


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

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis



Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.6
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	1
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.189
ACS – Bromide (Br)	<= 0.005 %	< 0.005
ACS – Extractable Organic Substances	<= 5 ppm	< 1
ACS – Free Chlorine (as Cl ₂)	<= 0.5 ppm	< 0.5
Phosphate (PO ₄)	<= 0.05 ppm	< 0.03
Sulfate (SO ₄)	<= 0.5 ppm	< 0.3
Sulfite (SO ₃)	<= 0.8 ppm	0.3
Ammonium (NH ₄)	<= 3 ppm	< 1
Trace Impurities – Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities – Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities – Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities – Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Test	Specification	Result
Trace Impurities – Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities – Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities – Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities – Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities – Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities – Selenium (Se), For Information Only	ppb	1.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities – Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities – Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities – Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities – Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use

Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓
511498 } 08/11/2023

*Not a certified value

Certified By: Shane C. Tipton
Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** A0201728

Description : Custom Pentachlorophenol Standard
Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

511649
↓
511658 } Y.P.
11/13/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023

Balance: B251644995

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
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Fax: 1-814-353-1309

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Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

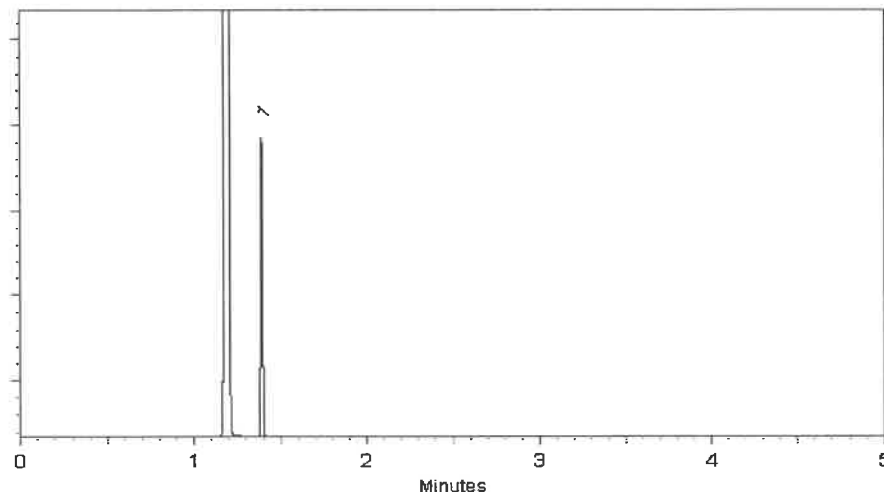
FID

Split Vent:

100 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0201976

Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

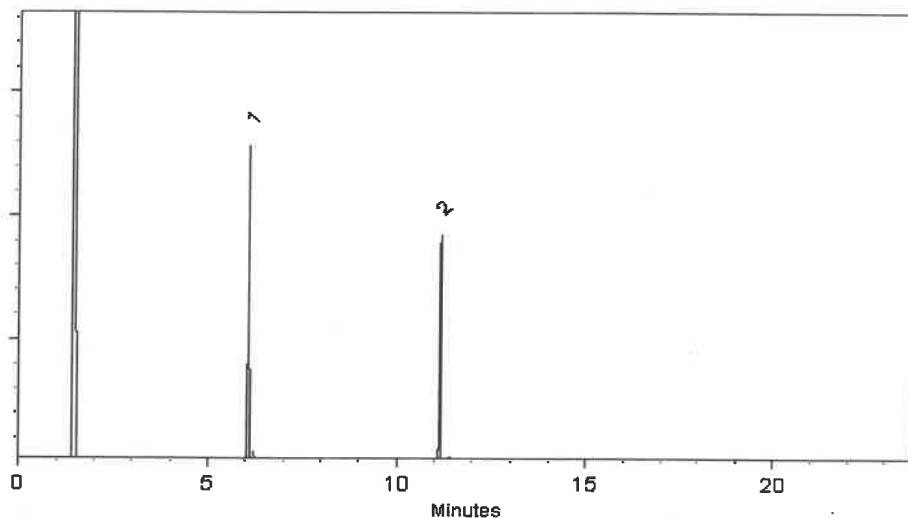
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

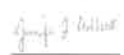


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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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:

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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:

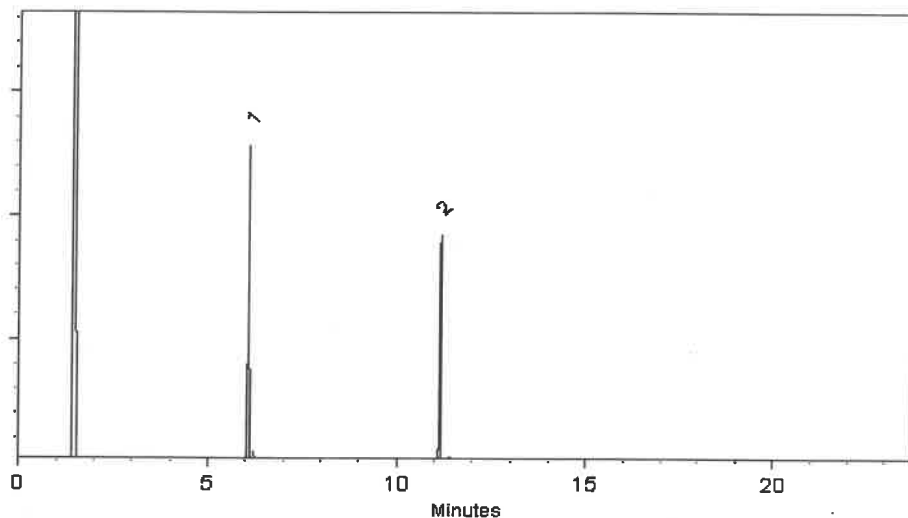
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

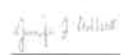


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.
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- Purity values are rounded to the nearest whole number.

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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.
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5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146

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%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	18
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265	
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422	
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968	
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998	
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634	
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221	
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240	
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553	
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251	
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220	
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674	
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979	
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130	
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857	
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220	
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958	
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230	
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553	

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%



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Fax: 1-814-353-1309

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Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓
512206 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

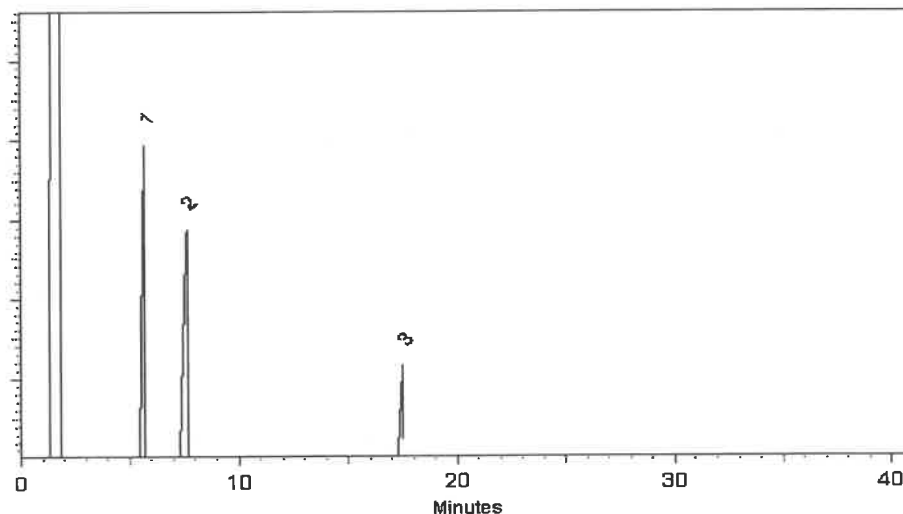
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope A. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

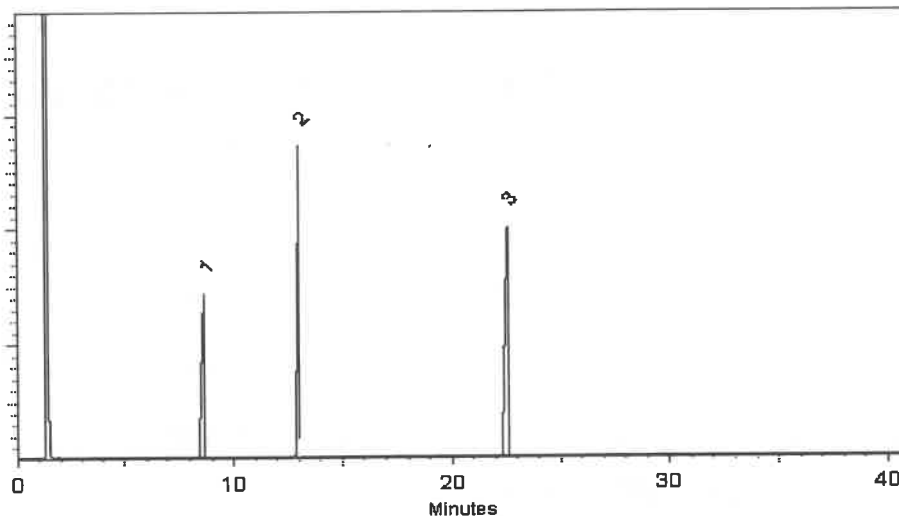
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.

Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value



Certified By:

Kerry Kane
Chemist

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Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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Certificate of Analysis

chromatographic plus



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0206540

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 : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12312 } RC/
↓ 05/30/24
S12331

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%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* 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:

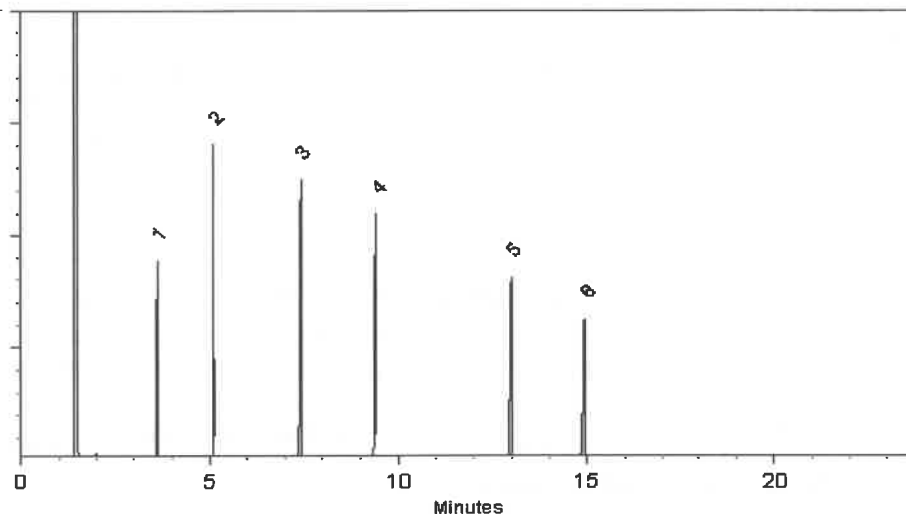
FID

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.

Malina Homan
Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905

Jennifer J. Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, 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. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645
↓
S12674
AC
10/1/24



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

~~512280~~ } RCL
↓
~~512284~~ } 05/24/24

New Numbers Generated.

512790 } RCL
↓
512794 } 11/12/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963
↓
S12992 } AC
12/17/20

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCKK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCKK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCKK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.



SHIPPING DOCUMENTS

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CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. Q1582
QUOTE NO.
COC Number 2041507

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: RESOLUTION
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: ELEANOR VIVAUDOU
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP BETHPAGE
PROJECT NO.: 60731872 LOCATION: BETHPAGE
PROJECT MANAGER: E. VIVAUDOU
e-mail: ELEANOR.VIVAUDOU@AECOM.COM
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: E. VIVAUDOU PO#:
ADDRESS: 27 ELLIS PL.
CITY: OSSINING STATE: NY ZIP: 10563
ATTENTION: E. VIVAUDOU PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: STANDARD DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☒ EDD FORMAT MS/DEC EDD CAT B

VOCs 8260
14 DIOXANE SIM 8270

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	RE117D1-20250313	6W		X	3-13-25	0910	3	2	1								
2.	TT180D1-20250313	6W		X		0915	3	2	1								
3.	TT180D2-20250313	6W		X		0915	3	2	1								
4.	TT180D3-20250313	6W		X		0915	3	2	1								
5.	FB02-20250313	DW		X		1130	3	2	1								
6.	RE131D1-20250313	6W		X		1130	3	2	1								
7.	RE131D2-20250313	6W		X		1130	3	2	1								
8.	RE131D3-20250313	6W		X		1115	3	2	1								
9.	TT119S1-20250313	6W		X		1310	3	2	1								
10.	RE114D1-20250313	6W		X		1025	3	2	1								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <u>[Signature]</u>	DATE/TIME: <u>1206</u> <u>3-14-25</u>	RECEIVED BY: 1. <u>[Signature]</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP <u>3.1</u> °C
RELINQUISHED BY SAMPLER: 2. <u>[Signature]</u>	DATE/TIME:	RECEIVED BY: 2. <u>[Signature]</u>	Comments:
RELINQUISHED BY SAMPLER: 3. <u>[Signature]</u>	DATE/TIME: <u>1516</u> <u>3-14-2025</u>	RECEIVED BY: 3. <u>[Signature]</u>	

Page 1 of 2

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.

QUOTE NO.

COC Number 2041508

Q1582

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: RESOLUTION

ADDRESS:

CITY: STATE: ZIP:

ATTENTION: ELEANOR VIVAUDOU

PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP BETHPAGE

PROJECT NO.: 6073187 LOCATION: BETHPAGE

PROJECT MANAGER: E. VIVAUDOU

e-mail: ELEANOR.VIVAUDOU@AECOM.COM

PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: E. VIVAUDOU PO#:

ADDRESS: 27 ELLIS PL.

CITY: OSSINING STATE: NY ZIP: 10963

ATTENTION: E. VIVAUDOU PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*

HARDCOPY (DATA PACKAGE): DAYS*

EDD: STANDARD DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)

☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP

☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B

+ Raw Data) ☐ Other

EDD FORMAT: NYS DEC EDD CTR

VOL 8260
14 DIKANE SW
8270

PRESERVATIVES

COMMENTS

← Specify Preservatives

A-HCl D-NaOH
B-HNO3 E-ICE
C-H2SO4 F-OTHER

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9		
1.	BPDW1-7-20250314	6W	X	X	3/4-25	0910	3	2	1									
2.	BPDW1-8-20250314	6W	X	X		0915	3	2	1									
3.	TT191D1-20250314	6W	X	X		1045	3	2	1									
4.	TT191D2-20250314	6W	X	X		1015	3	2	1									
5.	DUPD6-20250314	6W	X	X		—	3	2	1									
6.	FB	DW	X	X	11-15-24	—	2	2										
7.																		
8.																		
9.																		
10.																		

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME: 3/4-25 1206	RECEIVED BY: [Signature]	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 3.2 °C
1. [Signature]		1. [Signature]	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2. [Signature]		2. [Signature]	
RELINQUISHED BY SAMPLER:	DATE/TIME: 3/14/25	RECEIVED BY: [Signature]	Client: ☐ Hand Delivered ☐ Other
3. [Signature]		3. [Signature]	CHEMTECH: ☐ Picked Up ☐ Field Sampling
Page 2 of 2			Shipment Complete ☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1582	AECO15	Order Date : 3/14/2025 1:09:00 PM	Project Mgr :
Client Name : AECOM Technical Services		Project Name : NAVFAC NWIRP Bethpage	Report Type : Results Only NYS ASP B
Client Contact : Eleanor Vivadou		Receive DateTime : 3/14/2025 12:00:00 AM	EDD Type : EQUIS
Invoice Name : AECOM Technical Services		Purchase Order : 15:16	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
Q1582-01	RE117D1-20250313	Water	03/13/2025	09:10					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1582-02	TT180D1-20250313	Water	03/13/2025	09:15					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1582-03	TT180D2-20250313	Water	03/13/2025	09:15					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1582-04	TT180D-20250313	Water	03/13/2025	09:45					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1582-05	FB02-20250313	Water	03/13/2025	11:30					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1582-06	RE131D1-20250313	Water	03/13/2025	11:30					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1582-07	RE131D2-20250313	Water	03/13/2025	11:30					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1582-08	RE131D3-20250313	Water	03/13/2025	11:15					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1582	AECO15	Order Date : 3/14/2025 1:09:00 PM	Project Mgr :
Client Name : AECOM Technical Services		Project Name : NAVFAC NWIRP Bethpage	Report Type : Results Only NYS ASP B
Client Contact : Eleanor Vivadou		Receive DateTime : 3/14/2025 12:00:00 AM 15:16	EDD Type : EQUIS
Invoice Name : AECOM Technical Services		Purchase Order :	Hard Copy Date :
Invoice Contact : Eleanor Vivadou			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1582-09	TT119S1-20250313	Water	03/13/2025	13:10					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1582-10	RE114D1-20250313	Water	03/13/2025	10:25					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1582-11	BPOW1-7-20250314	Water	03/13/2025	09:10					
			03/14/2025		VOCMS Group1		8260-Low	10 Bus. Days	
Q1582-12	BPOW1-8-20250314	Water	03/13/2025	09:15					
			03/14/2025		VOCMS Group1		8260-Low	10 Bus. Days	
Q1582-13	TT191D1-20250314	Water	03/13/2025	10:45					
			03/14/2025		VOCMS Group1		8260-Low	10 Bus. Days	
Q1582-14	TT191D2-20250314	Water	03/13/2025	10:15					
			03/14/2025		VOCMS Group1		8260-Low	10 Bus. Days	
Q1582-15	DUP06-20250314	Water	03/13/2025	00:00					
			03/14/2025		VOCMS Group1		8260-Low	10 Bus. Days	

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1582	AECO15	Order Date : 3/14/2025 1:09:00 PM	Project Mgr :
Client Name : AECOM Technical Services		Project Name : NAVFAC NWIRP Bethpage	Report Type : Results Only NYS ASP B
Client Contact : Eleanor Vivadou		Receive DateTime : 3/14/2025 12:00:00 AM 15:16	EDD Type : EQUIS
Invoice Name : AECOM Technical Services		Purchase Order :	Hard Copy Date :
Invoice Contact : Eleanor Vivadou			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1582-16	FB	Water	03/13/2025	00:00					
			03/14/2025		VOCMS Group1		8260-Low	10 Bus. Days	

Relinquished By :

Date / Time :

1. C. J.
3.14.2025 1615

Received By :

Date / Time :

Sam
03/14/25 16:15 1844

Storage Area : VOA Refridgerator Room

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036557.D
 Acq On : 10 Mar 2025 11:42
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Mar 10 16:00:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

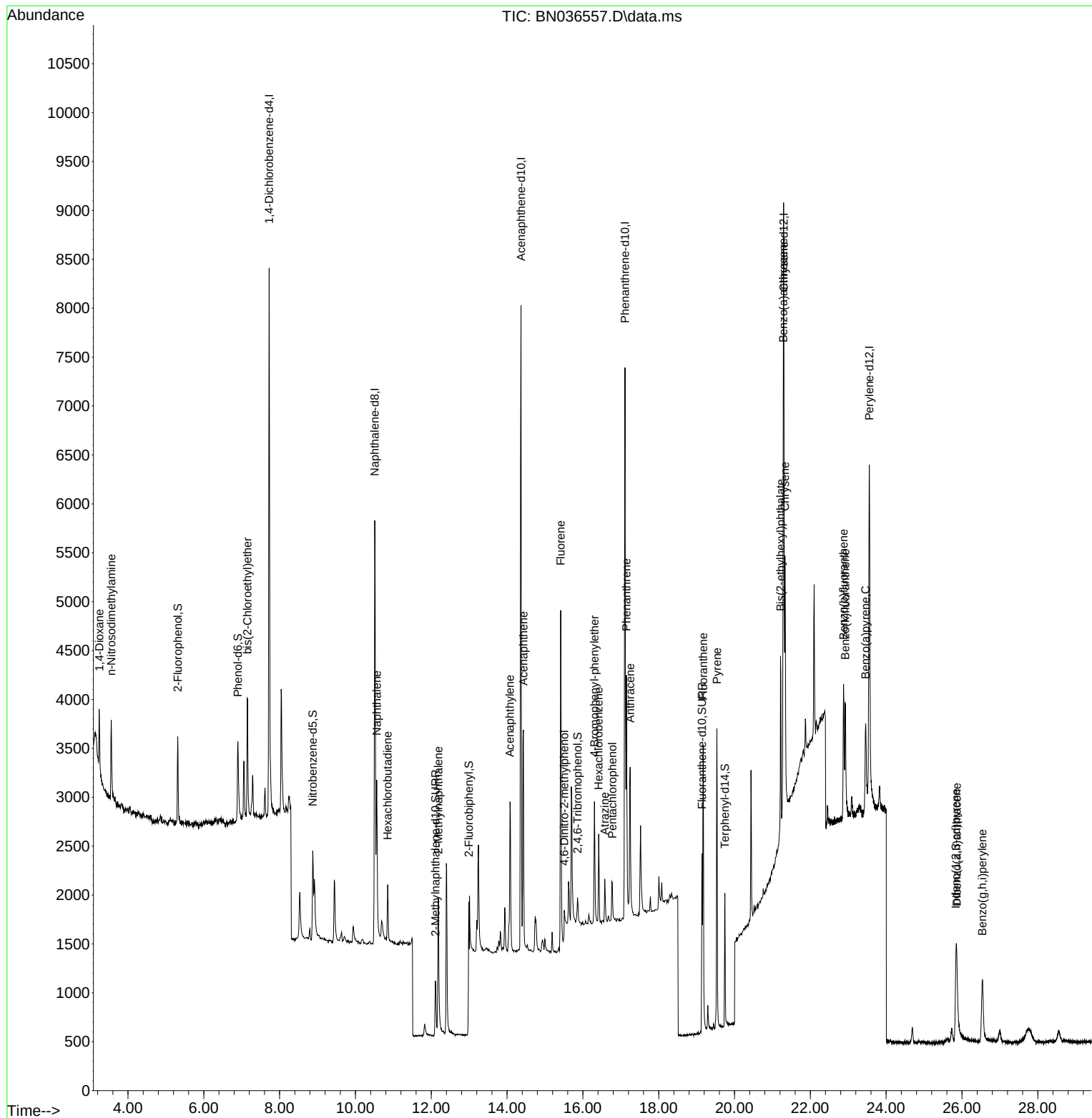
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2755	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	6575	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3958	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	8269	0.400	ng	0.00
29) Chrysene-d12	21.295	240	5886	0.400	ng	0.00
35) Perylene-d12	23.554	264	5207	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	641	0.100	ng	0.00
5) Phenol-d6	6.901	99	856	0.108	ng	0.00
8) Nitrobenzene-d5	8.875	82	940	0.131	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	1079	0.110	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	179	0.100	ng	0.00
15) 2-Fluorobiphenyl	12.993	172	2185	0.095	ng	0.00
27) Fluoranthene-d10	19.141	212	2144	0.101	ng	0.00
31) Terphenyl-d14	19.745	244	1416	0.100	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.247	88	534	0.175	ng	# 78
3) n-Nitrosodimethylamine	3.557	42	766	0.124	ng	# 95
6) bis(2-Chloroethyl)ether	7.154	93	982	0.120	ng	# 98
9) Naphthalene	10.562	128	2254	0.117	ng	# 94
10) Hexachlorobutadiene	10.850	225	486	0.107	ng	# 100
12) 2-Methylnaphthalene	12.187	142	1331	0.108	ng	96
16) Acenaphthylene	14.078	152	1862	0.100	ng	99
17) Acenaphthene	14.430	154	1244	0.102	ng	99
18) Fluorene	15.414	166	1612	0.097	ng	99
20) 4,6-Dinitro-2-methylph...	15.510	198	122	0.204	ng	# 24
21) 4-Bromophenyl-phenylether	16.304	248	502	0.097	ng	95
22) Hexachlorobenzene	16.416	284	632	0.101	ng	98
23) Atrazine	16.578	200	400	0.096	ng	# 90
24) Pentachlorophenol	16.776	266	290	0.102	ng	98
25) Phenanthrene	17.148	178	2459	0.099	ng	99
26) Anthracene	17.248	178	2121	0.095	ng	100
28) Fluoranthene	19.174	202	2772	0.099	ng	97
30) Pyrene	19.536	202	2862	0.099	ng	100
32) Benzo(a)anthracene	21.286	228	2044	0.100	ng	94
33) Chrysene	21.331	228	2187	0.098	ng	93
34) Bis(2-ethylhexyl)phtha...	21.214	149	1760	0.121	ng	96
36) Indeno(1,2,3-cd)pyrene	25.841	276	1510	0.080	ng	98
37) Benzo(b)fluoranthene	22.876	252	1707	0.090	ng	# 62
38) Benzo(k)fluoranthene	22.923	252	1958	0.098	ng	# 62
39) Benzo(a)pyrene	23.458	252	1419	0.089	ng	# 51
40) Dibenzo(a,h)anthracene	25.861	278	1163	0.079	ng	# 59
41) Benzo(g,h,i)perylene	26.539	276	1482	0.089	ng	# 84

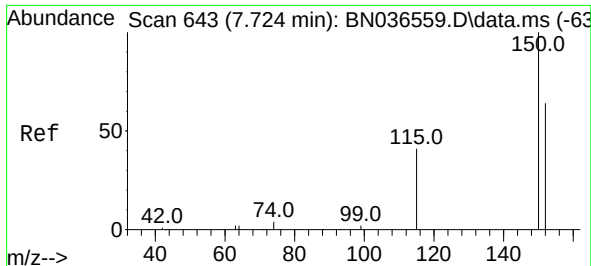
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036557.D
Acq On : 10 Mar 2025 11:42
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

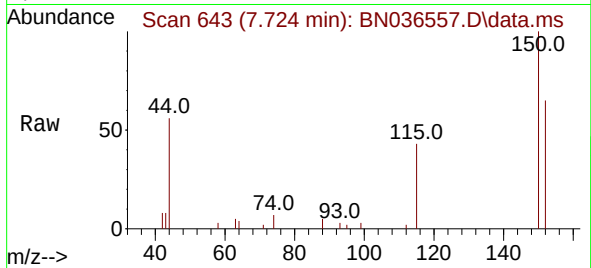
Quant Time: Mar 10 16:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration



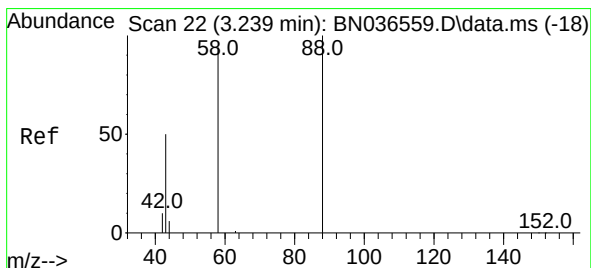
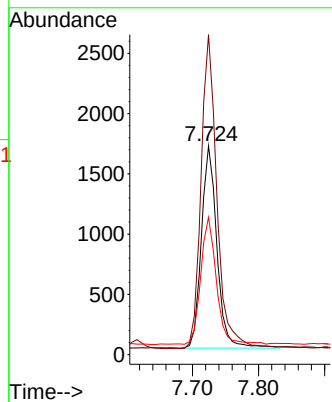
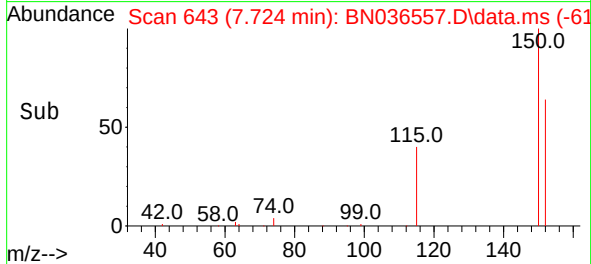


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.724 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN036557.D
 Acq: 10 Mar 2025 11:42

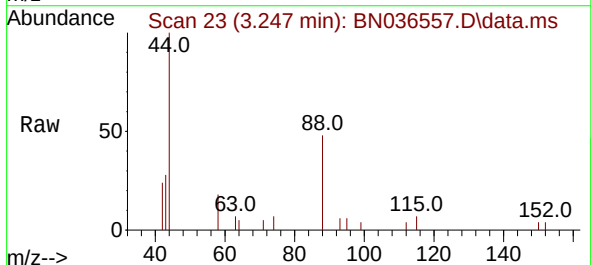
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1



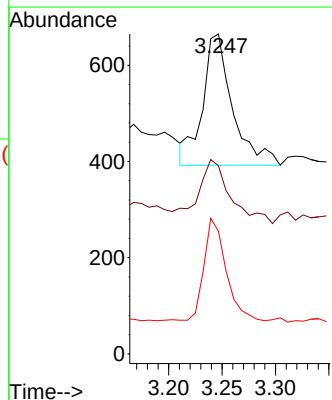
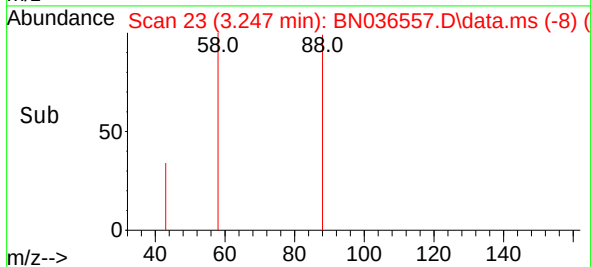
Tgt Ion:152 Resp: 2755
 Ion Ratio Lower Upper
 152 100
 150 153.3 123.7 185.5
 115 65.8 54.3 81.5

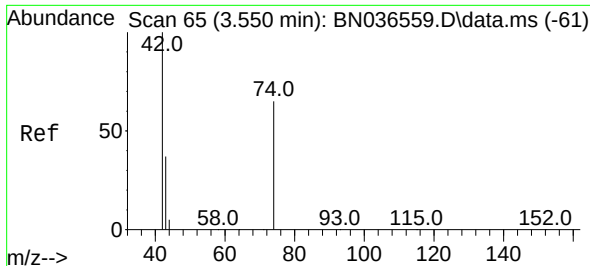


#2
 1,4-Dioxane
 Concen: 0.175 ng
 RT: 3.247 min Scan# 23
 Delta R.T. 0.007 min
 Lab File: BN036557.D
 Acq: 10 Mar 2025 11:42



Tgt Ion: 88 Resp: 534
 Ion Ratio Lower Upper
 88 100
 43 53.0 37.8 56.8
 58 57.3 67.4 101.2#

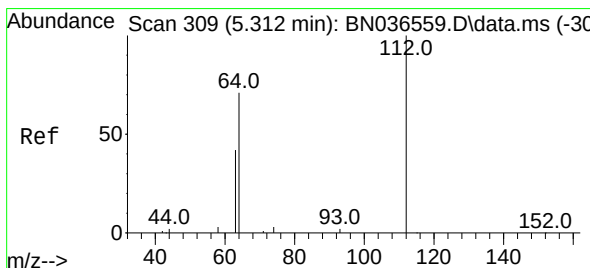
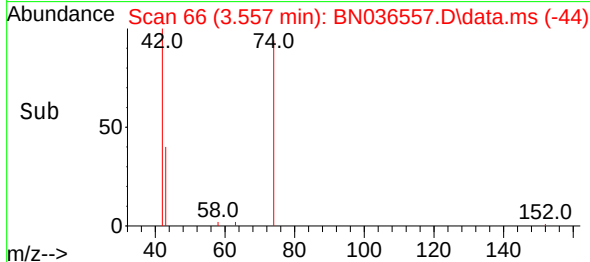
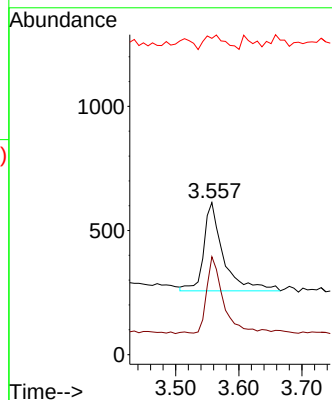
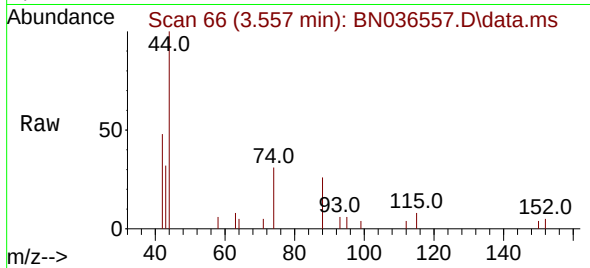




#3
n-Nitrosodimethylamine
Concen: 0.124 ng
RT: 3.557 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

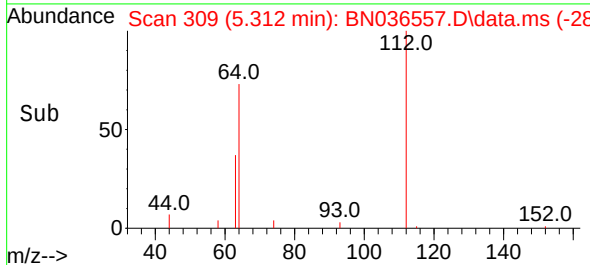
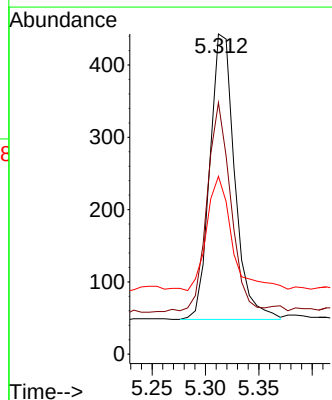
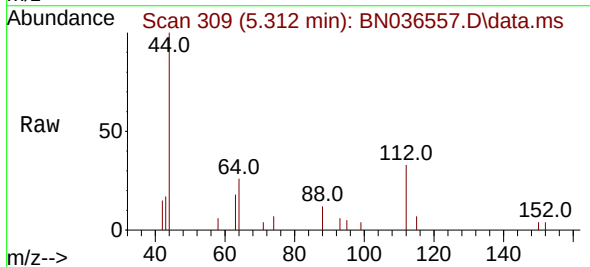
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

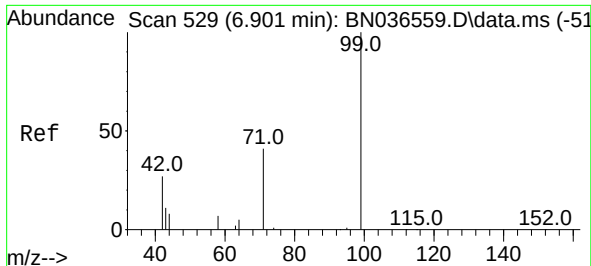
Tgt Ion: 42 Resp: 766
Ion Ratio Lower Upper
42 100
74 73.0 60.6 90.8
44 16.6 6.3 9.5#



#4
2-Fluorophenol
Concen: 0.100 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 112 Resp: 641
Ion Ratio Lower Upper
112 100
64 70.4 53.1 79.7
63 40.9 31.8 47.8

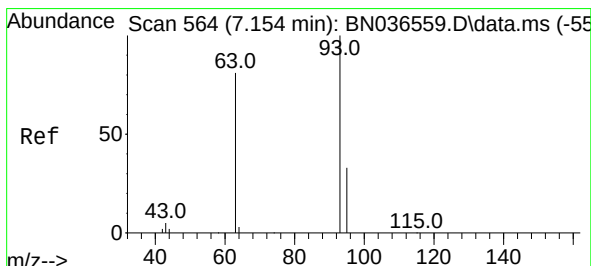
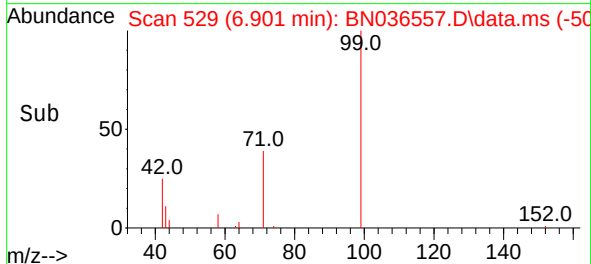
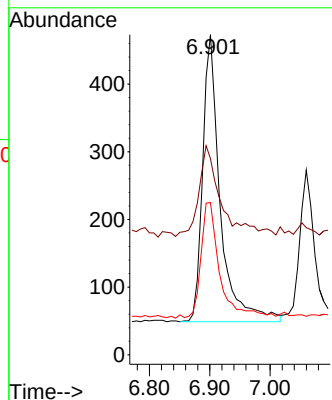
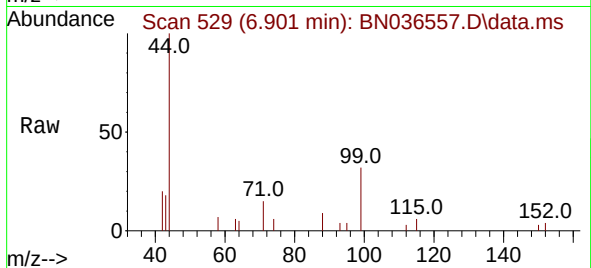




#5
Phenol-d6
Concen: 0.108 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

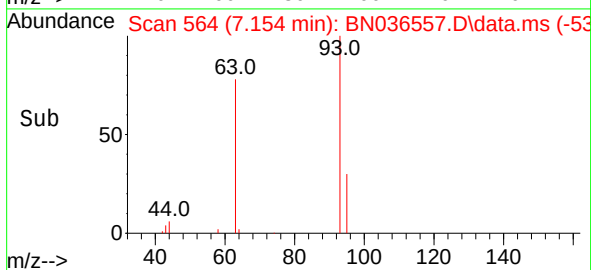
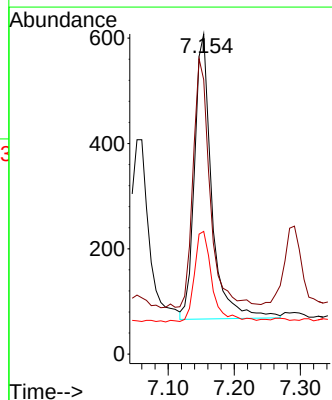
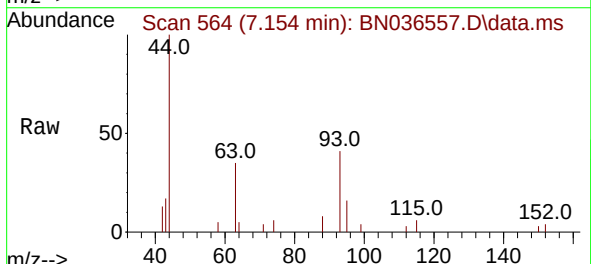
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

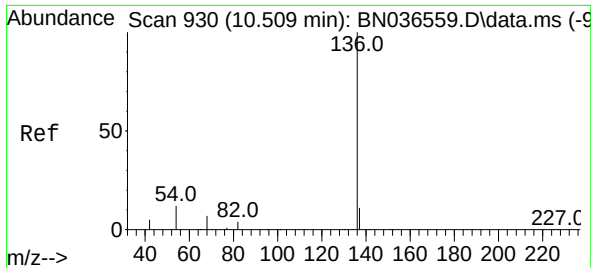
Tgt Ion: 99 Resp: 856
Ion Ratio Lower Upper
99 100
42 39.8 26.5 39.7#
71 42.8 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.120 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 93 Resp: 982
Ion Ratio Lower Upper
93 100
63 86.7 67.7 101.5
95 33.0 25.6 38.4

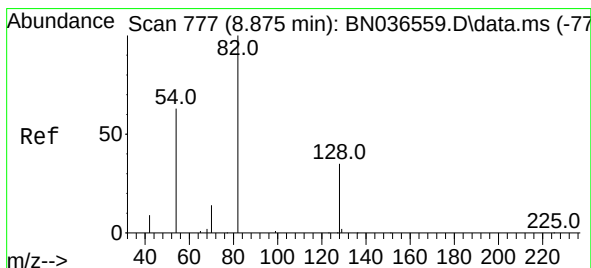
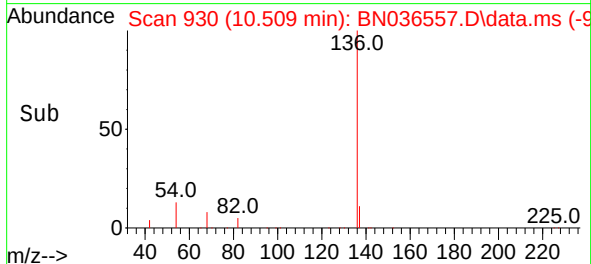
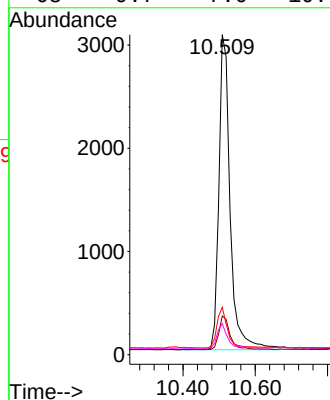
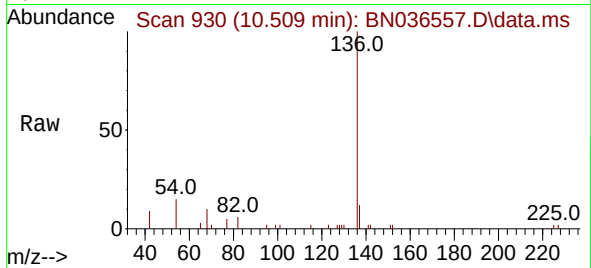




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

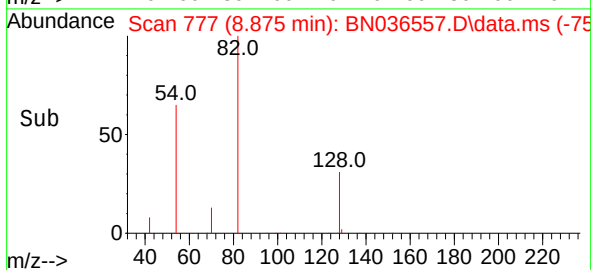
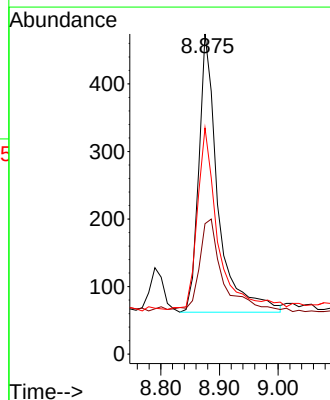
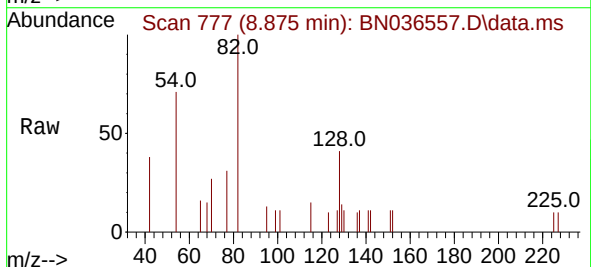
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

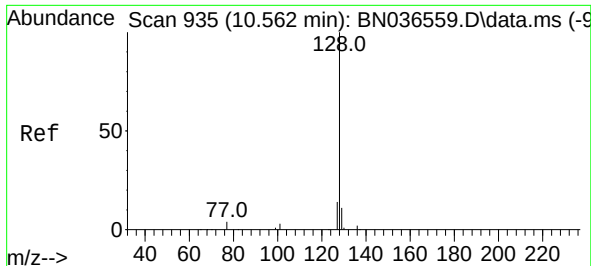
Tgt Ion:	136	Resp:	6575
Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.3	15.5
54	14.8	11.5	17.3
68	9.7	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.131 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:	82	Resp:	940
Ion	Ratio	Lower	Upper
82	100		
128	40.7	30.6	45.8
54	70.7	52.2	78.4

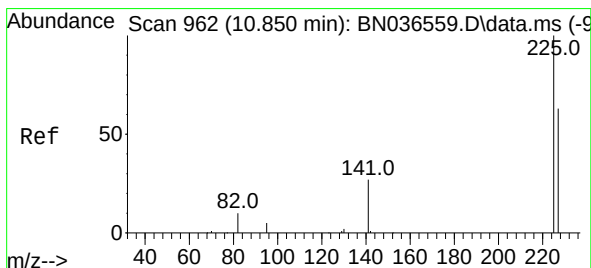
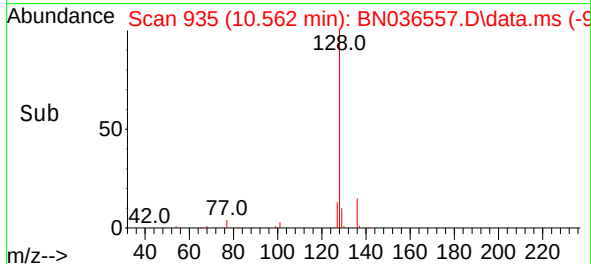
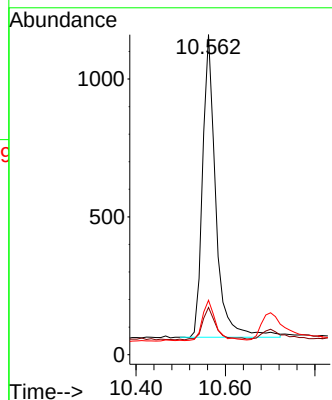
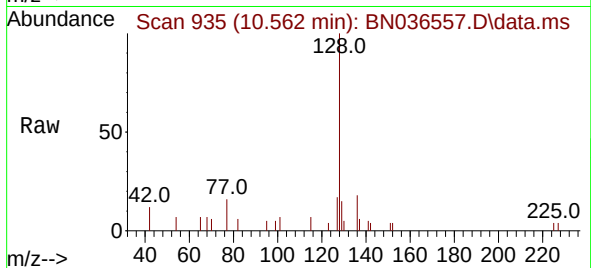




#9
Naphthalene
Concen: 0.117 ng
RT: 10.562 min Scan# 935
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

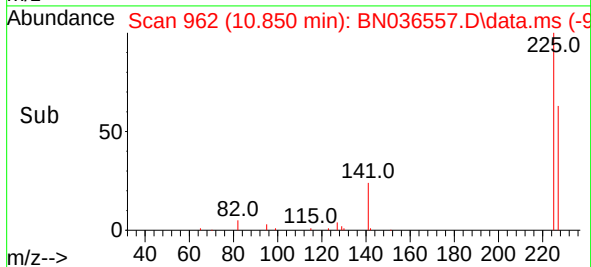
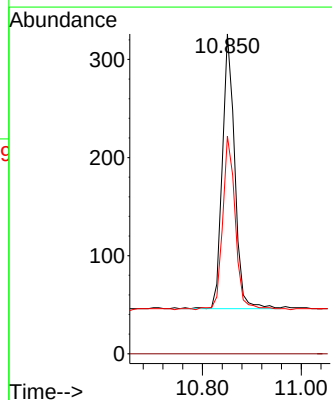
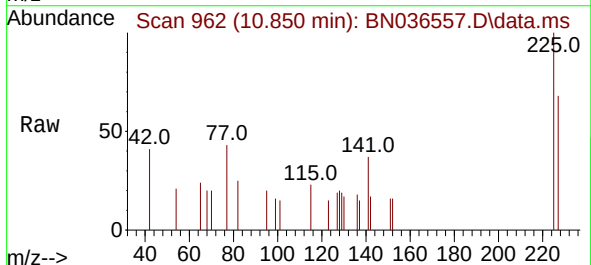
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

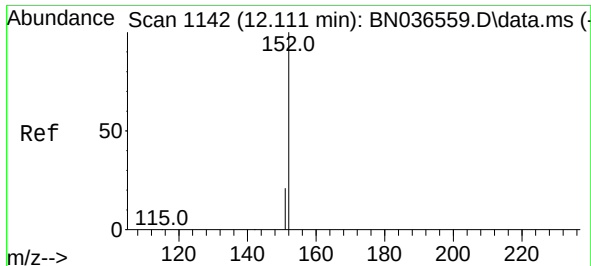
Tgt Ion:128 Resp: 2254
Ion Ratio Lower Upper
128 100
129 14.7 9.8 14.6#
127 17.0 11.8 17.8



#10
Hexachlorobutadiene
Concen: 0.107 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:225 Resp: 486
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.8 51.8 77.8

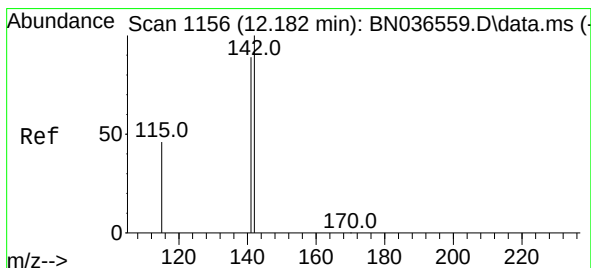
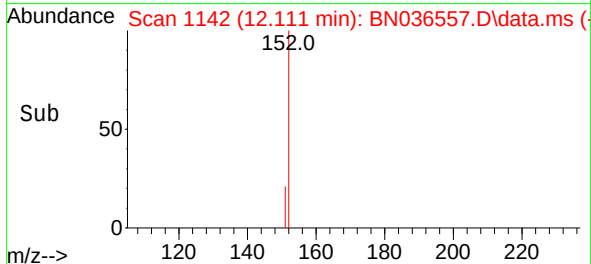
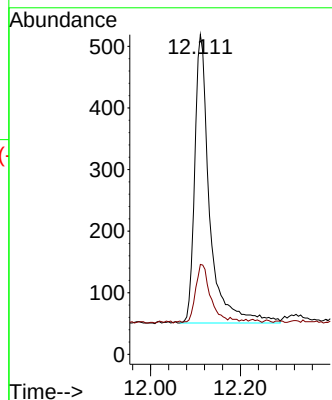
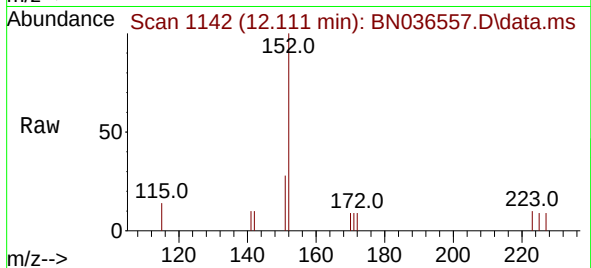




#11
2-Methylnaphthalene-d10
Concen: 0.110 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

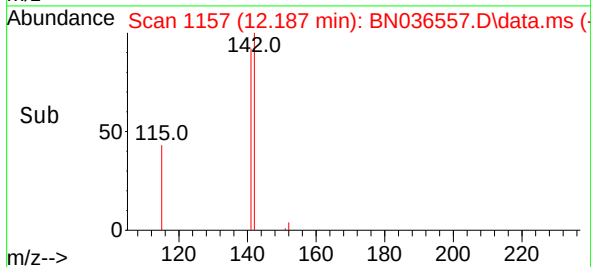
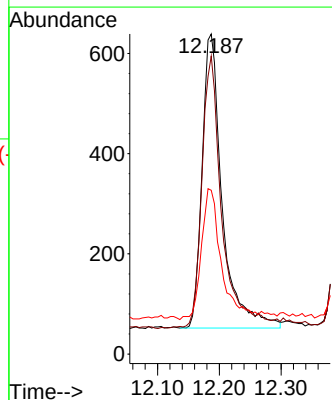
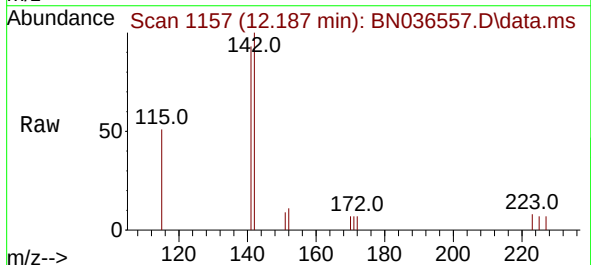
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

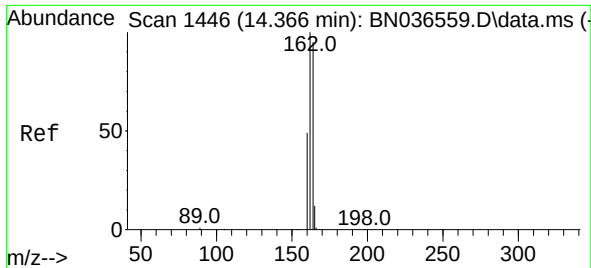
Tgt Ion:152 Resp: 1079
Ion Ratio Lower Upper
152 100
151 19.5 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.108 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:142 Resp: 1331
Ion Ratio Lower Upper
142 100
141 93.1 71.7 107.5
115 51.2 38.3 57.5

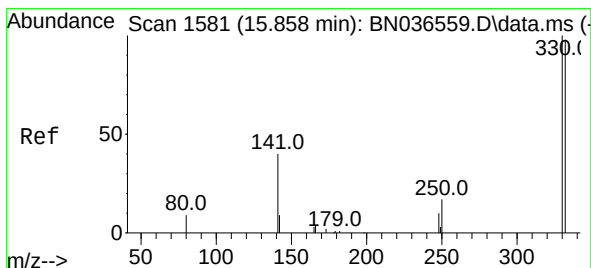
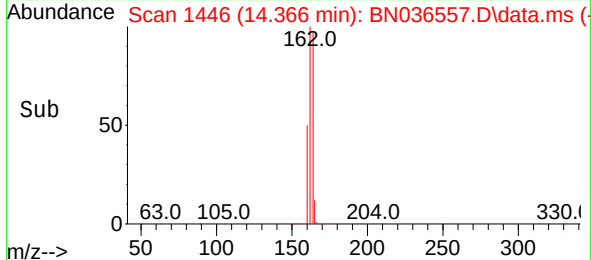
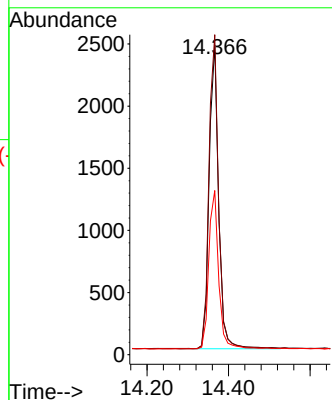
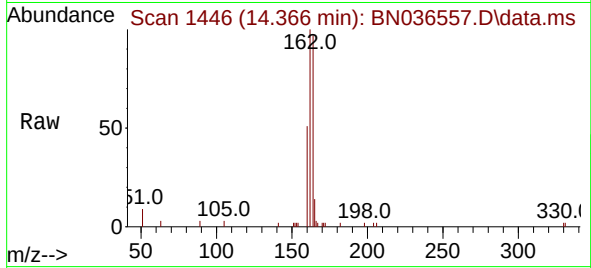




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

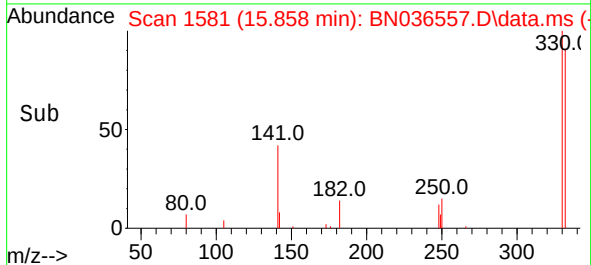
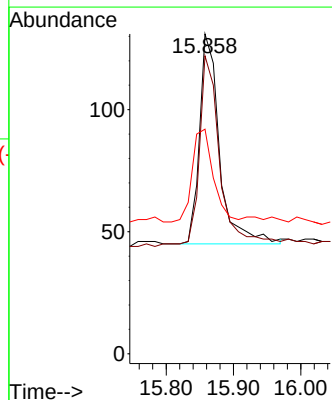
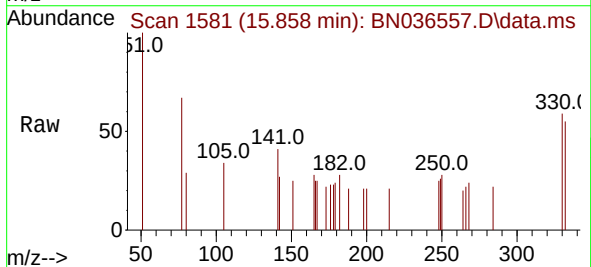
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

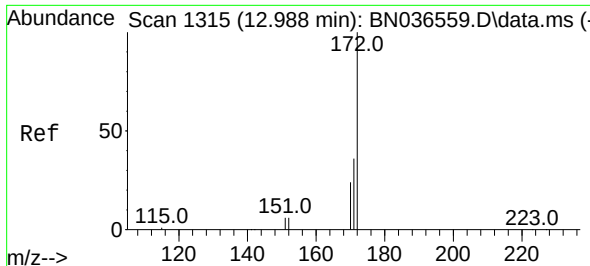
Tgt Ion:	164	Resp:	3958
Ion Ratio	Lower	Upper	
164	100		
162	103.3	84.2	126.2
160	53.0	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.100 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:	330	Resp:	179
Ion Ratio	Lower	Upper	
330	100		
332	96.1	75.2	112.8
141	46.4	43.4	65.2

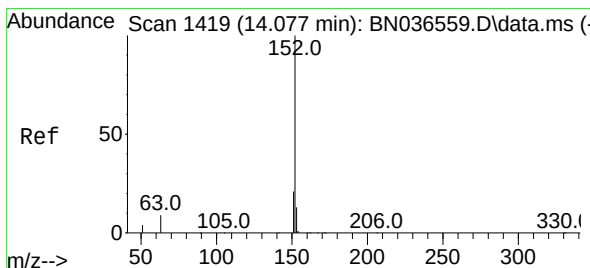
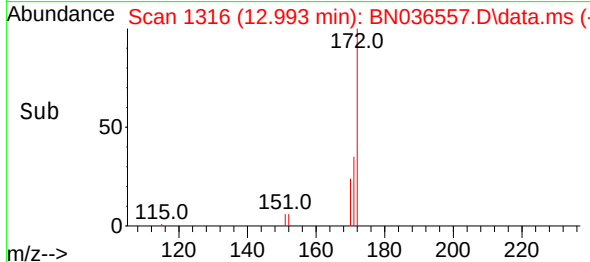
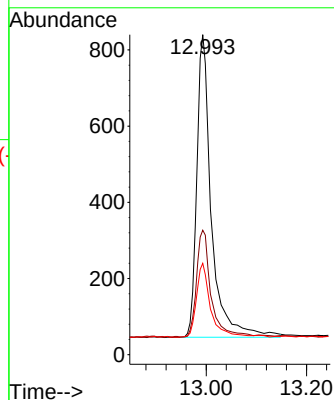
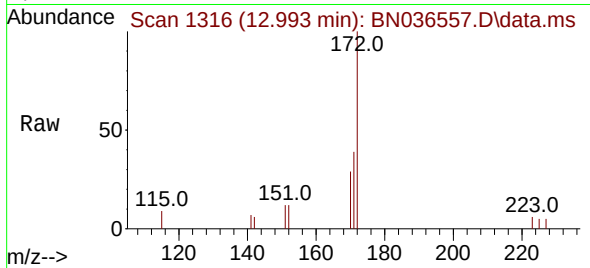




#15
2-Fluorobiphenyl
Concen: 0.095 ng
RT: 12.993 min Scan# 1416
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

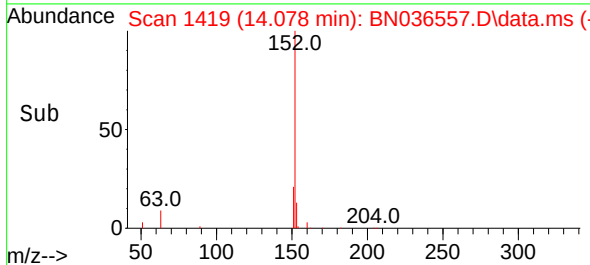
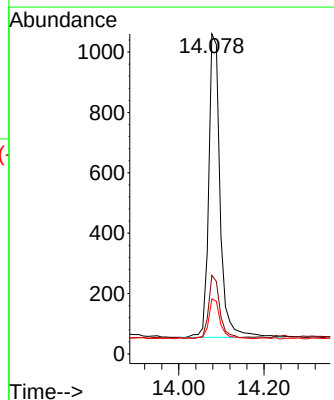
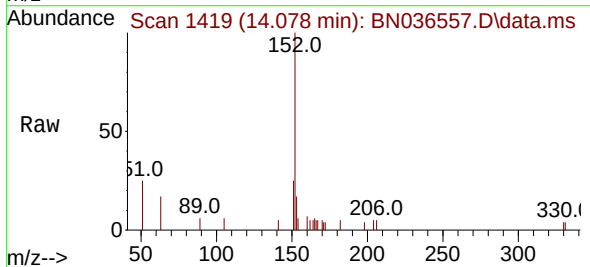
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

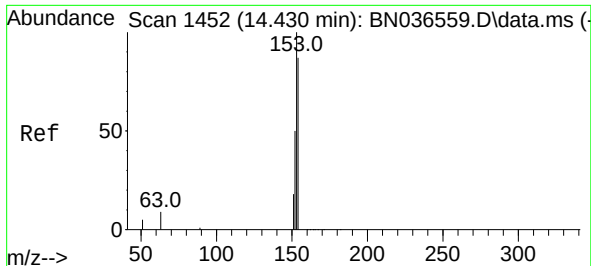
Tgt Ion:	172	Resp:	2185
Ion	Ratio	Lower	Upper
172	100		
171	38.9	29.5	44.3
170	28.6	20.2	30.4



#16
Acenaphthylene
Concen: 0.100 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:	152	Resp:	1862
Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.4
153	14.1	10.6	15.8

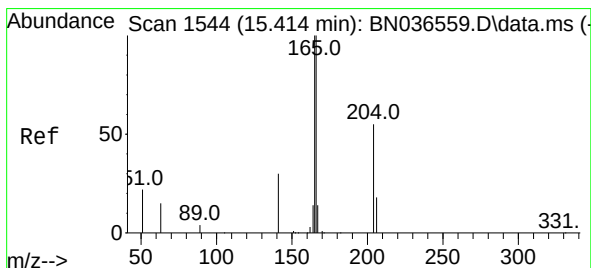
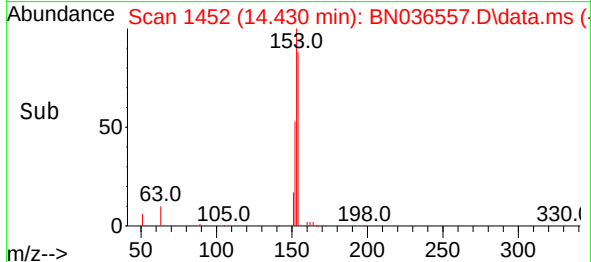
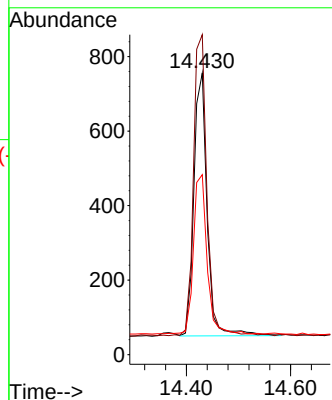
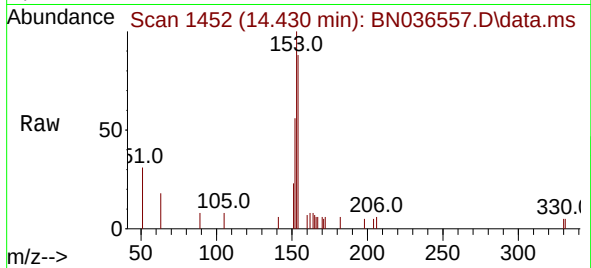




#17
Acenaphthene
Concen: 0.102 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

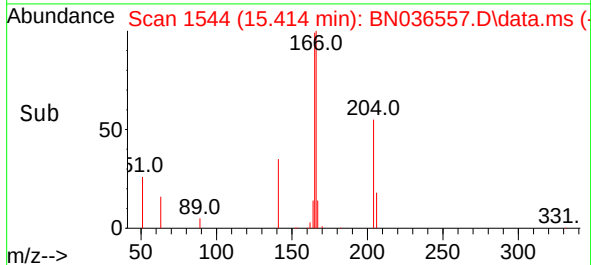
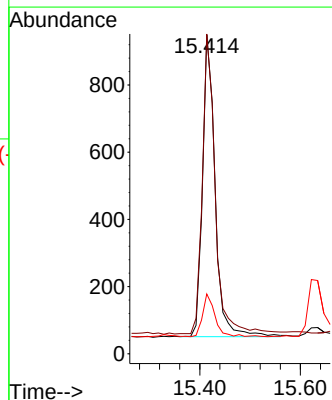
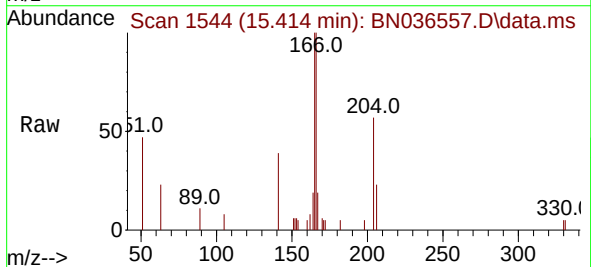
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

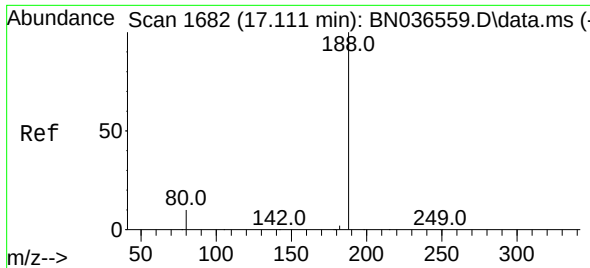
Tgt Ion:154 Resp: 1244
Ion Ratio Lower Upper
154 100
153 115.9 94.1 141.1
152 62.5 49.8 74.6



#18
Fluorene
Concen: 0.097 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:166 Resp: 1612
Ion Ratio Lower Upper
166 100
165 100.9 79.8 119.8
167 13.9 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

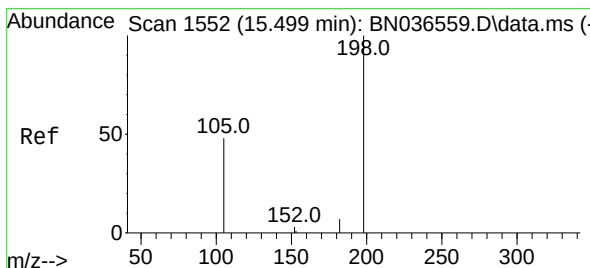
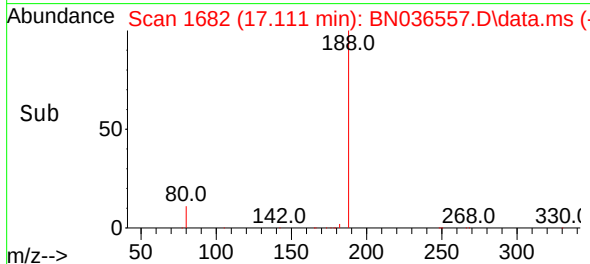
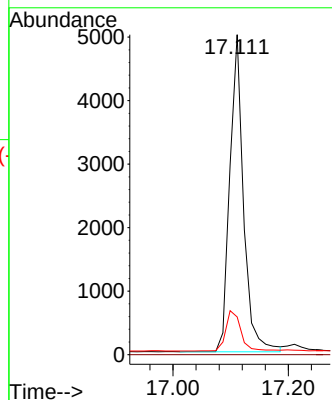
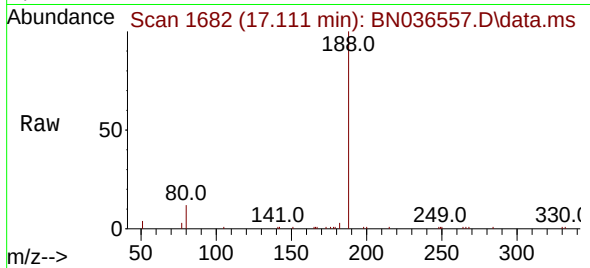
Tgt Ion:188 Resp: 8269

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.8 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.204 ng

RT: 15.510 min Scan# 1553

Delta R.T. 0.011 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

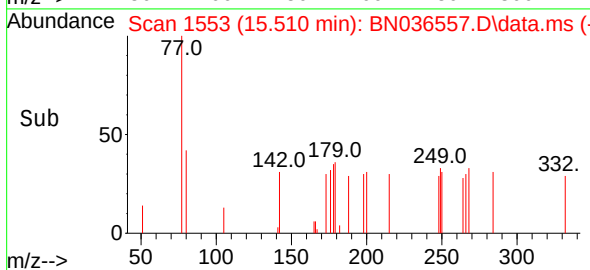
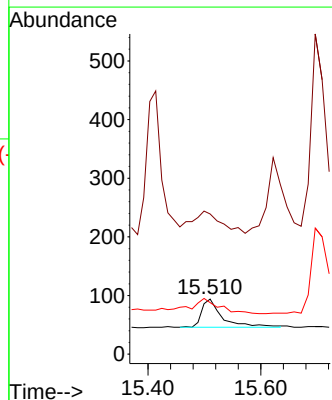
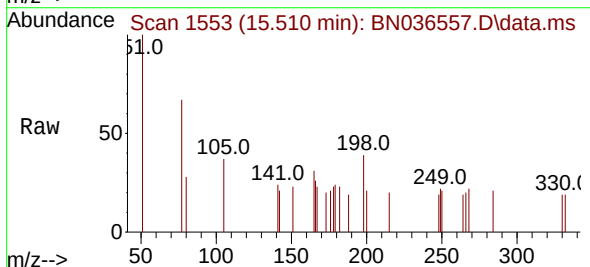
Tgt Ion:198 Resp: 122

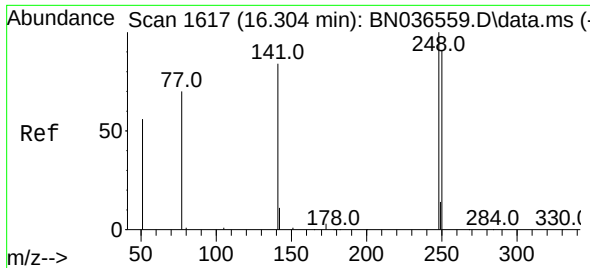
Ion Ratio Lower Upper

198 100

51 254.3 107.9 161.9#

105 93.6 56.2 84.2#

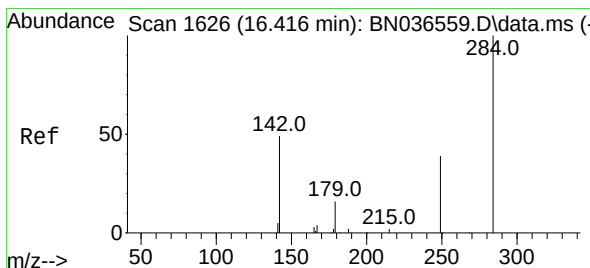
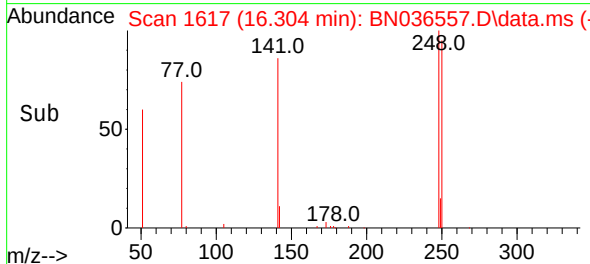
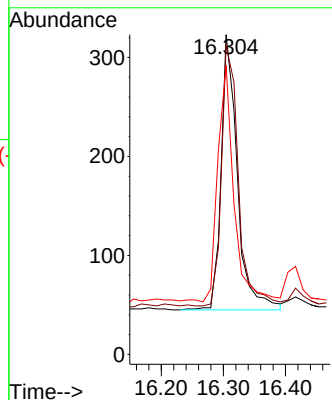
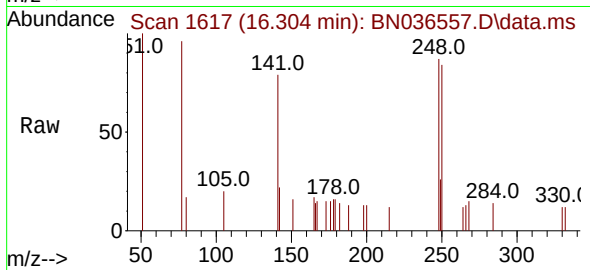




#21
4-Bromophenyl-phenylether
Concen: 0.097 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

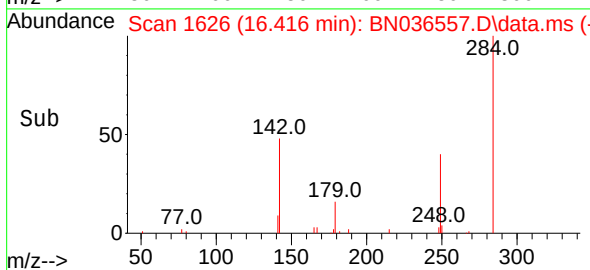
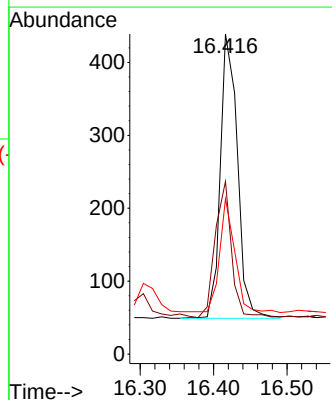
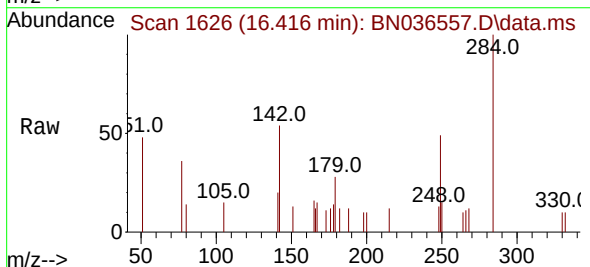
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

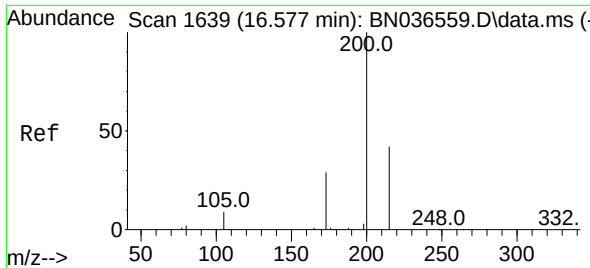
Tgt Ion:	248	Resp:	502
Ion Ratio	Lower	Upper	
248	100		
250	96.6	73.0	109.6
141	90.4	68.6	103.0



#22
Hexachlorobenzene
Concen: 0.101 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:	284	Resp:	632
Ion Ratio	Lower	Upper	
284	100		
142	45.7	37.0	55.4
249	37.2	28.1	42.1

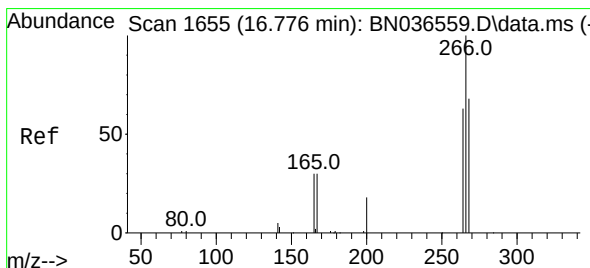
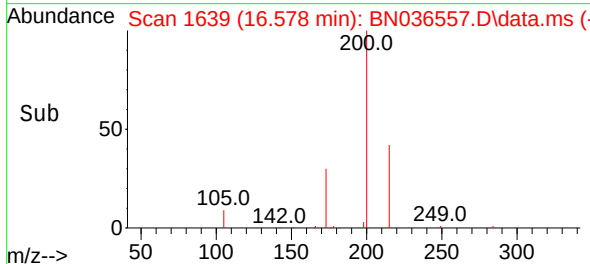
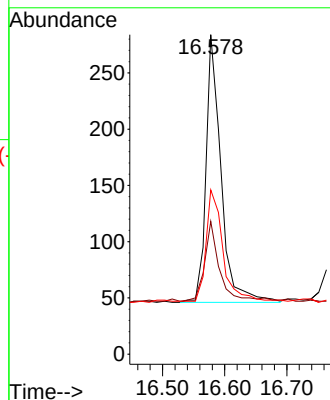
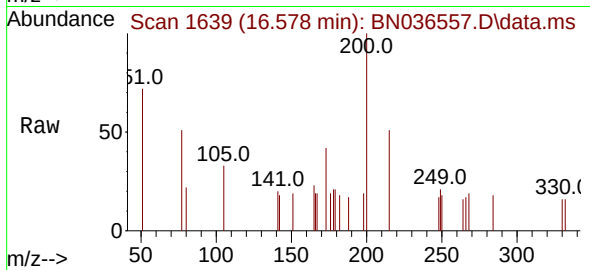




#23
Atrazine
Concen: 0.096 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

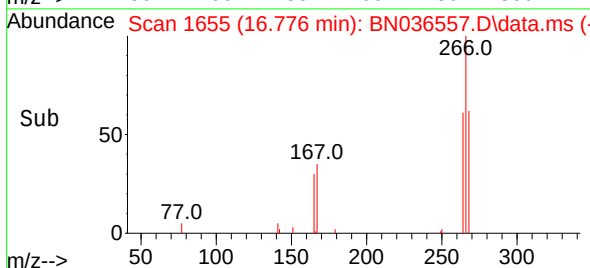
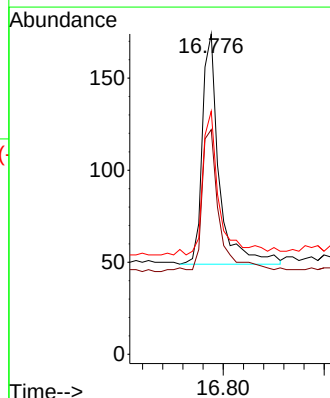
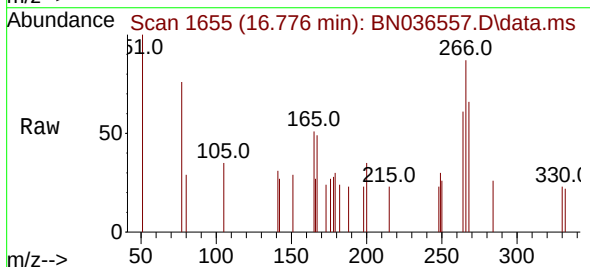
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

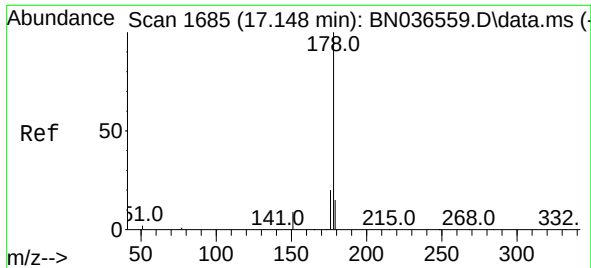
Tgt Ion:200 Resp: 400
Ion Ratio Lower Upper
200 100
173 41.5 27.3 40.9#
215 51.4 36.8 55.2



#24
Pentachlorophenol
Concen: 0.102 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:266 Resp: 290
Ion Ratio Lower Upper
266 100
264 64.8 49.6 74.4
268 62.8 50.9 76.3

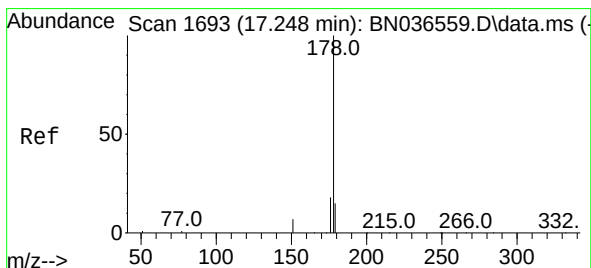
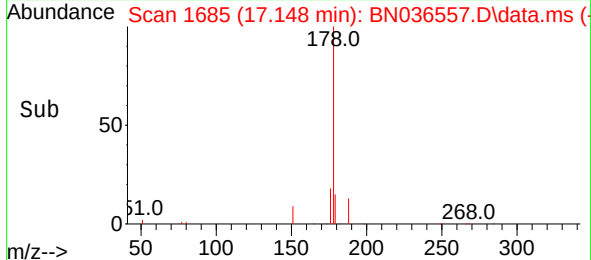
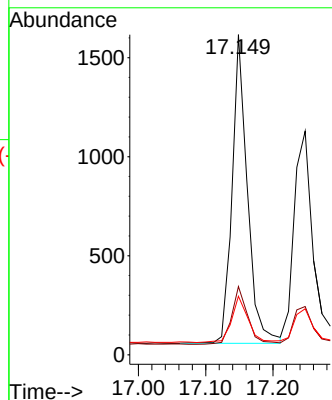
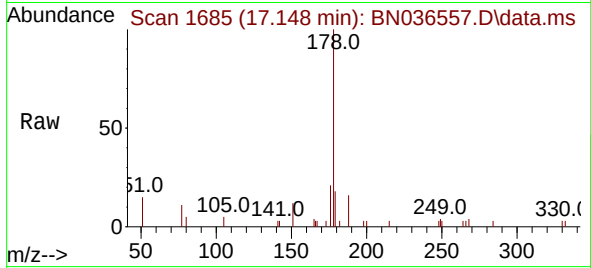




#25
Phenanthrene
Concen: 0.099 ng
RT: 17.148 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

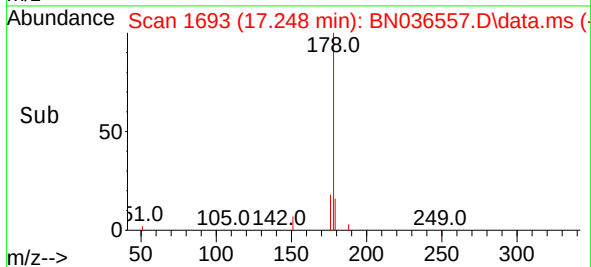
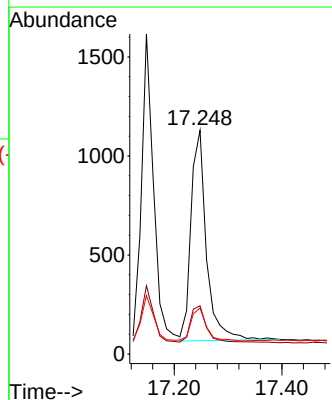
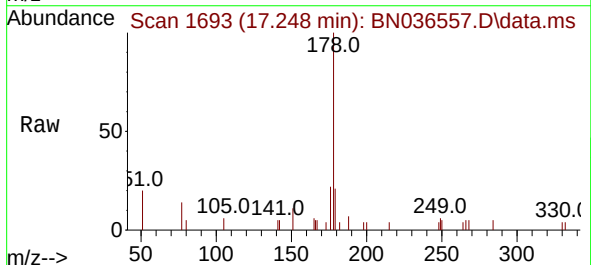
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

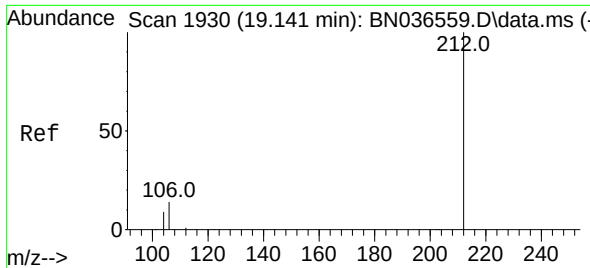
Tgt Ion:	178	Resp:	2459
Ion Ratio	Lower	Upper	
178	100		
176	19.6	15.9	23.9
179	16.1	12.2	18.4



#26
Anthracene
Concen: 0.095 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:	178	Resp:	2121
Ion Ratio	Lower	Upper	
178	100		
176	19.3	15.4	23.2
179	15.7	12.6	18.8

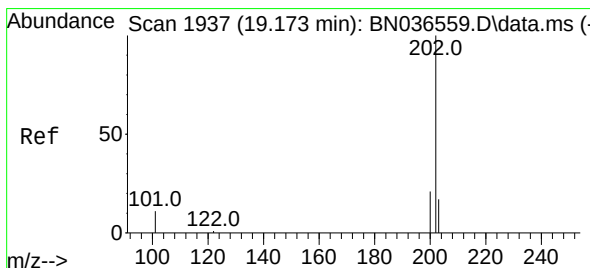
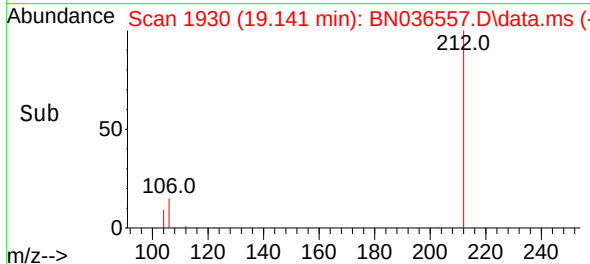
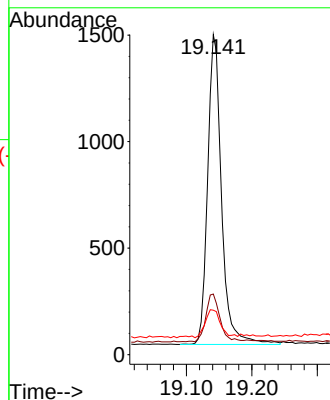
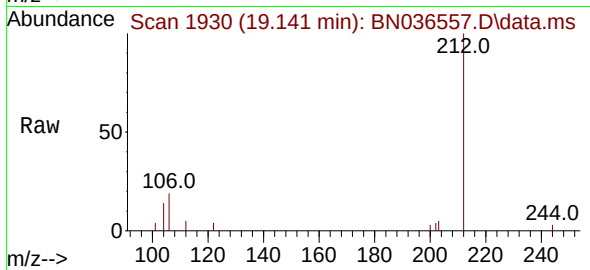




#27
Fluoranthene-d10
Concen: 0.101 ng
RT: 19.141 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

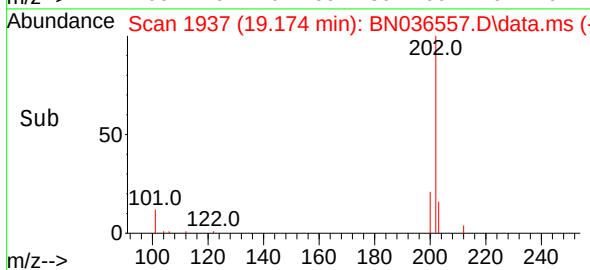
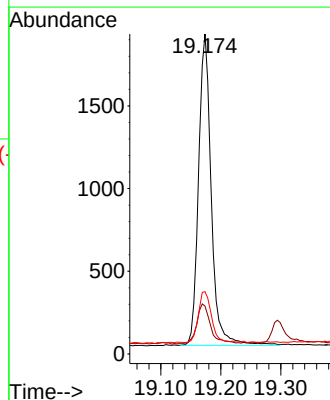
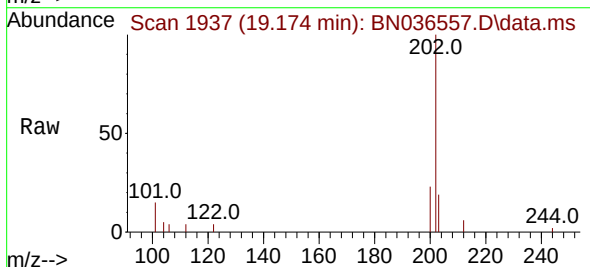
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

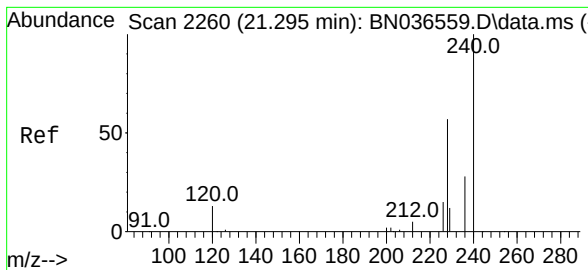
Tgt Ion:	212	Resp:	2144
Ion Ratio	Lower	Upper	
212	100		
106	15.5	11.8	17.6
104	9.7	7.3	10.9



#28
Fluoranthene
Concen: 0.099 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:	202	Resp:	2772
Ion Ratio	Lower	Upper	
202	100		
101	14.0	9.4	14.0
203	17.0	13.5	20.3

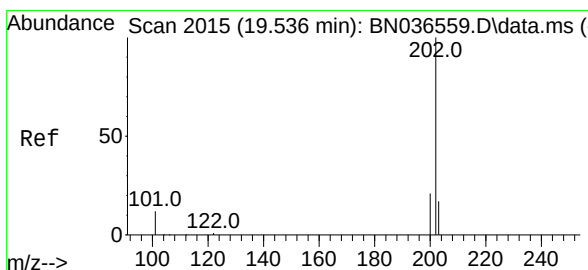
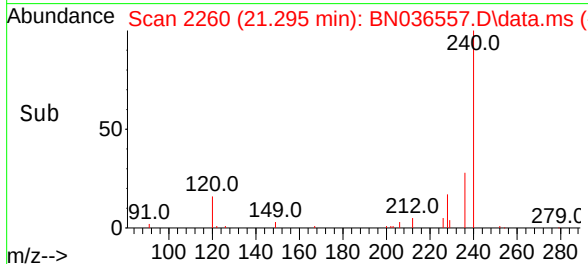
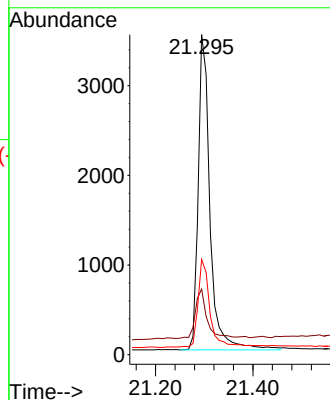
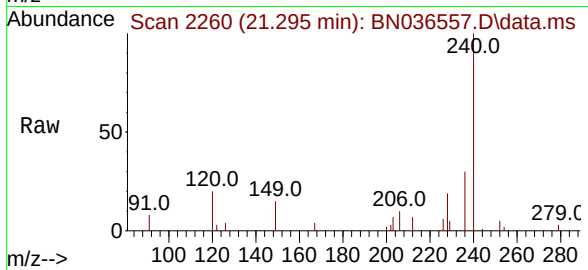




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

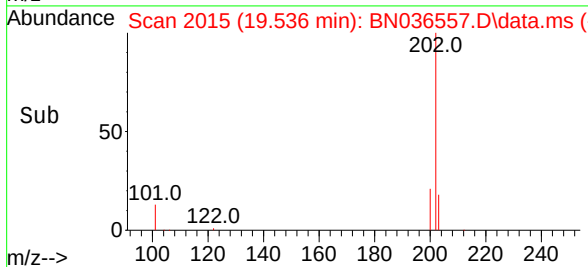
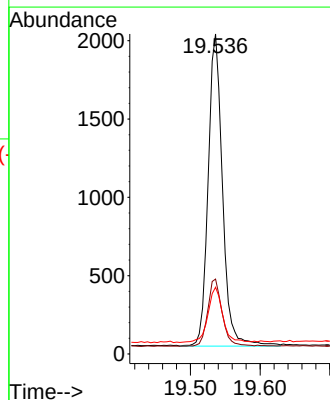
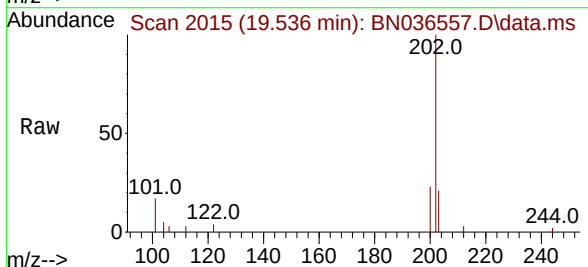
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

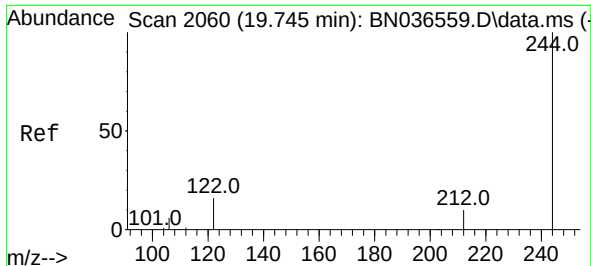
Tgt Ion:	240	Resp:	5886
Ion Ratio	Lower	Upper	
240	100		
120	20.5	14.6	22.0
236	29.8	24.1	36.1



#30
Pyrene
Concen: 0.099 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

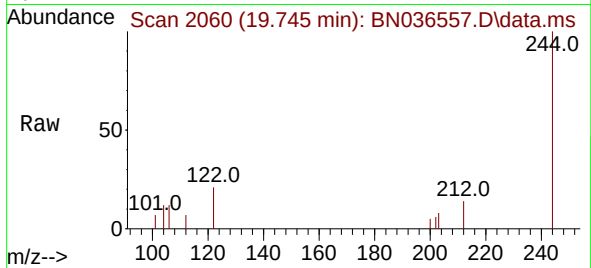
Tgt Ion:	202	Resp:	2862
Ion Ratio	Lower	Upper	
202	100		
200	21.3	17.1	25.7
203	17.9	14.1	21.1



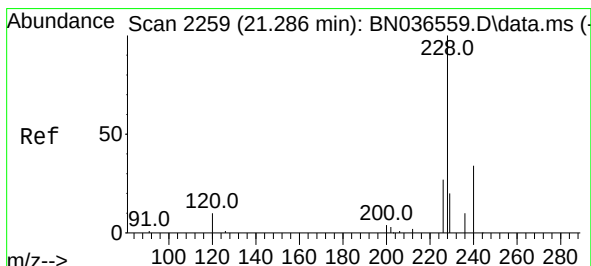
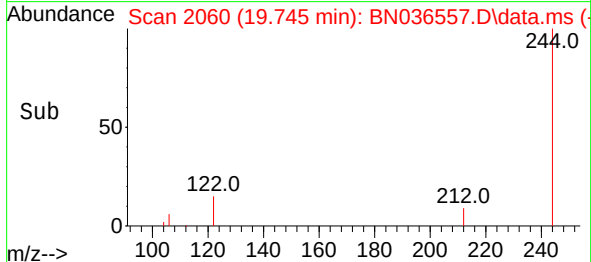
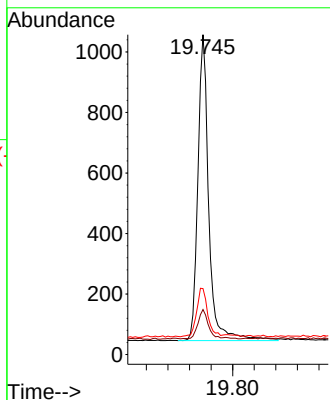


#31
 Terphenyl-d14
 Concen: 0.100 ng
 RT: 19.745 min Scan# 2060
 Delta R.T. 0.000 min
 Lab File: BN036557.D
 Acq: 10 Mar 2025 11:42

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

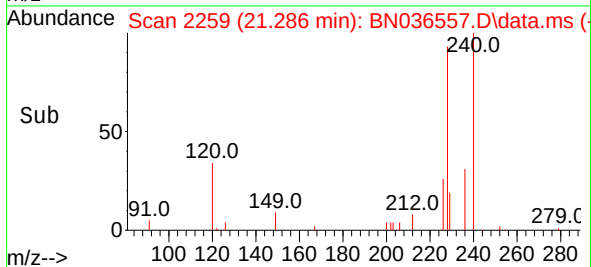
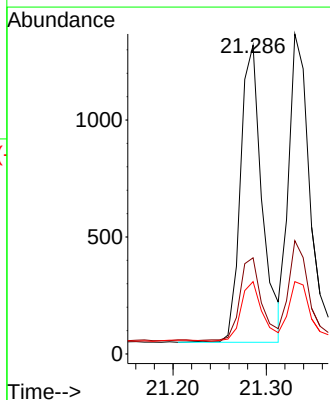
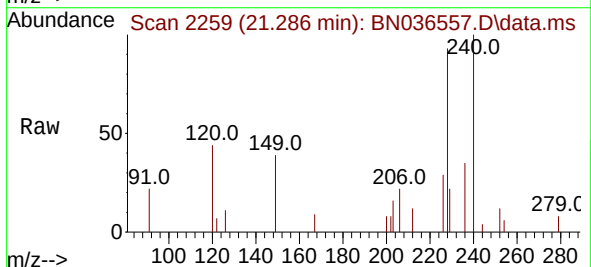


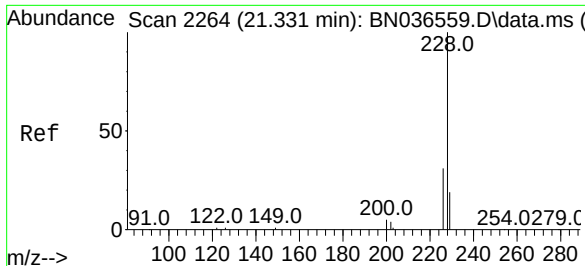
Tgt Ion:	244	Resp:	1416
Ion Ratio	Lower	Upper	
244	100		
212	14.1	9.6	14.4
122	20.6	13.9	20.9



#32
 Benzo(a)anthracene
 Concen: 0.100 ng
 RT: 21.286 min Scan# 2259
 Delta R.T. 0.000 min
 Lab File: BN036557.D
 Acq: 10 Mar 2025 11:42

Tgt Ion:	228	Resp:	2044
Ion Ratio	Lower	Upper	
228	100		
226	31.1	22.5	33.7
229	23.4	16.6	25.0

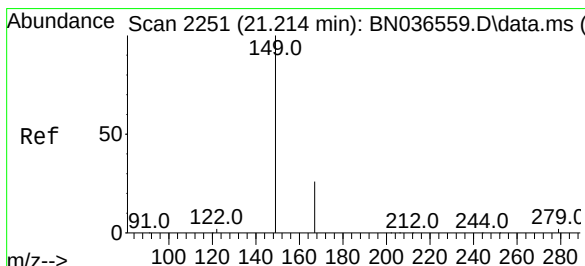
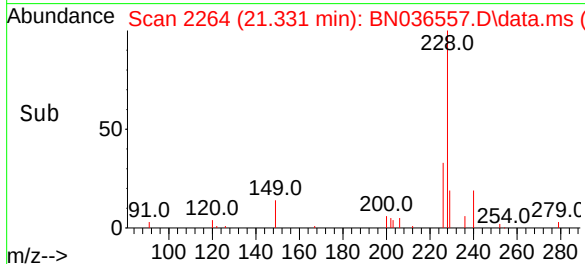
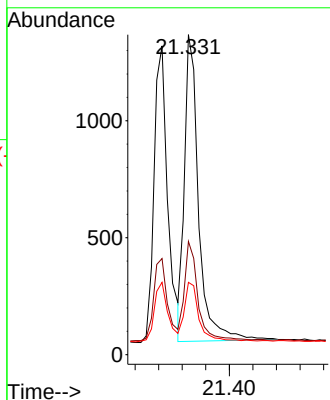
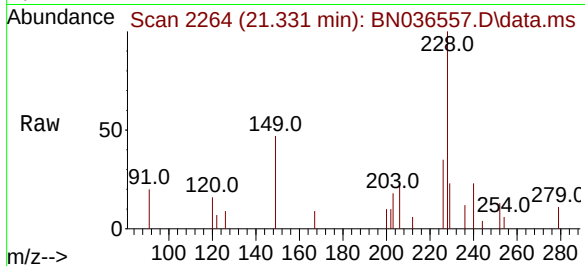




#33
Chrysene
Concen: 0.098 ng
RT: 21.331 min Scan# 2187
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

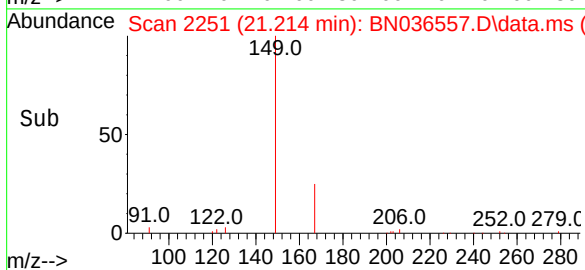
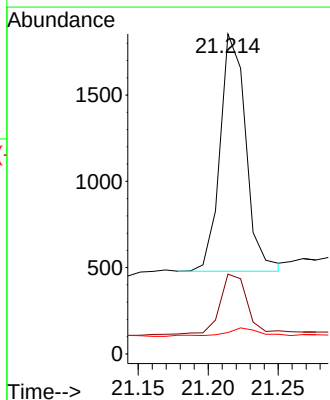
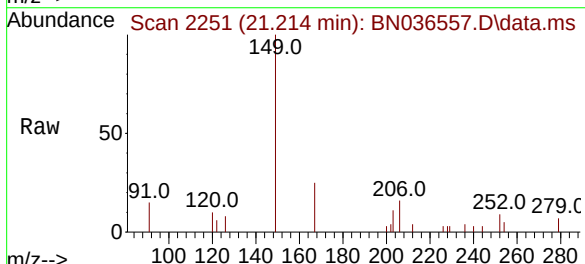
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

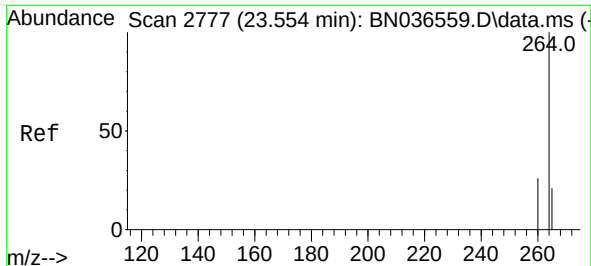
Tgt Ion:228	Resp:	2187
Ion Ratio	Lower	Upper
228	100	
226	35.4	25.3 37.9
229	22.6	15.8 23.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.121 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:149	Resp:	1760
Ion Ratio	Lower	Upper
149	100	
167	27.9	20.7 31.1
279	4.9	3.6 5.4

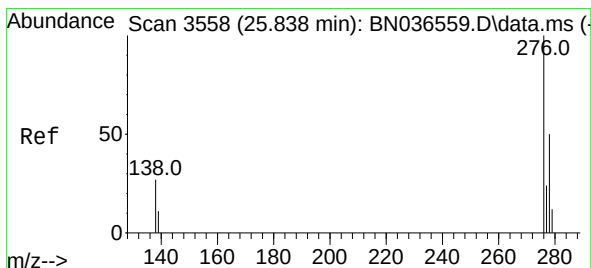
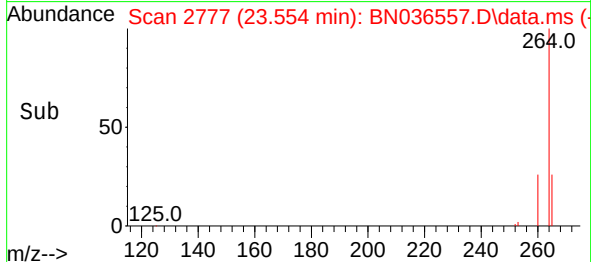
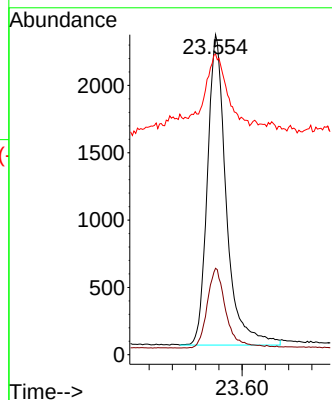
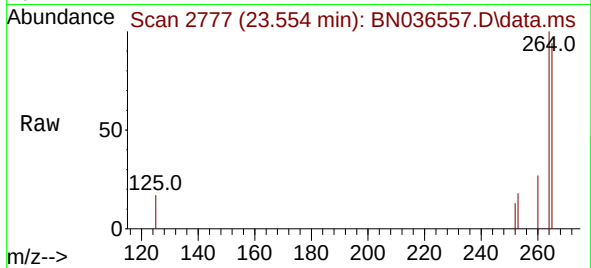




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

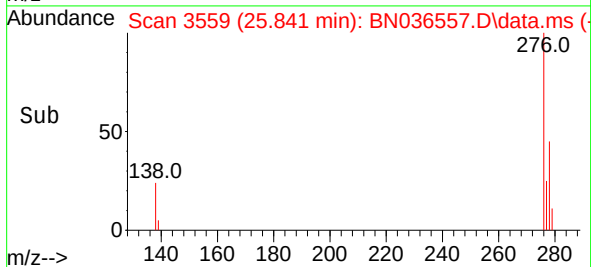
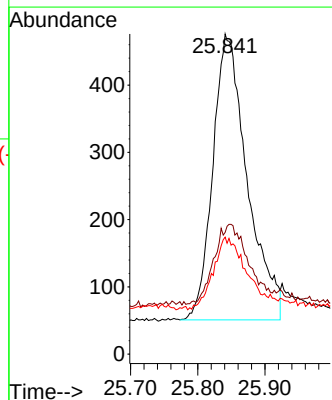
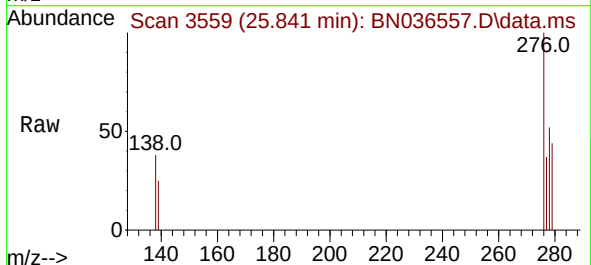
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

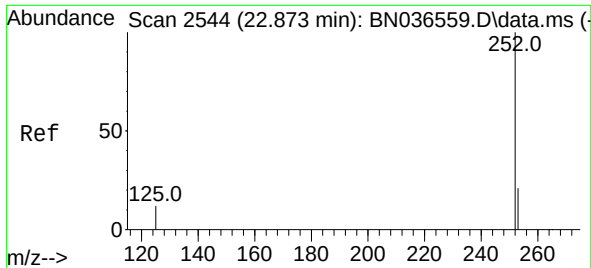
Tgt Ion:264 Resp: 5207
Ion Ratio Lower Upper
264 100
260 27.0 22.6 33.8
265 93.9 88.1 132.1



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.080 ng
RT: 25.841 min Scan# 3559
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:276 Resp: 1510
Ion Ratio Lower Upper
276 100
138 27.6 23.4 35.2
277 24.2 20.0 30.0

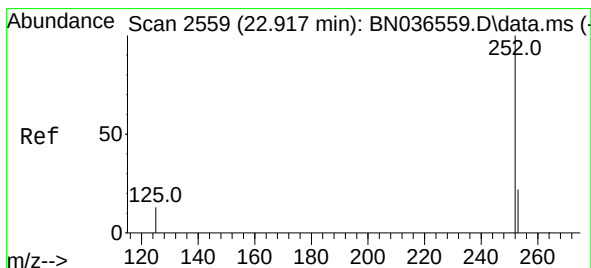
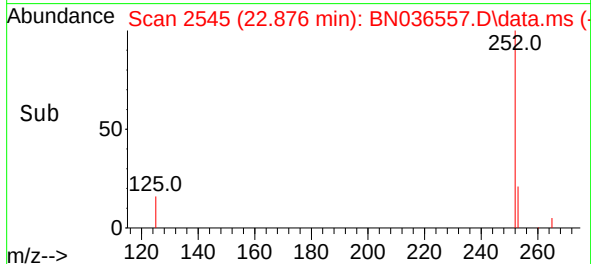
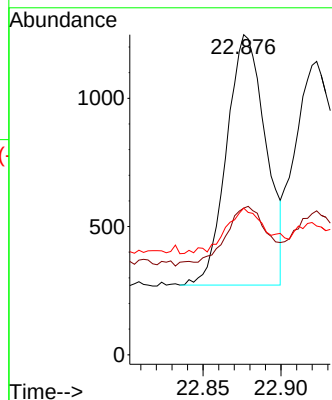
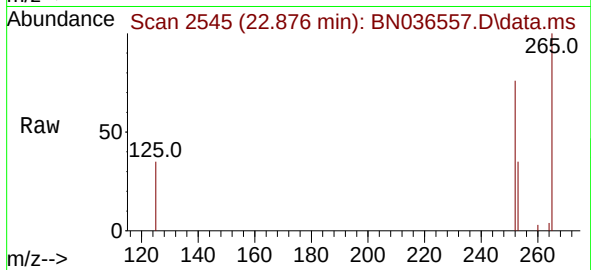




#37
Benzo(b)fluoranthene
Concen: 0.090 ng
RT: 22.876 min Scan# 2544
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

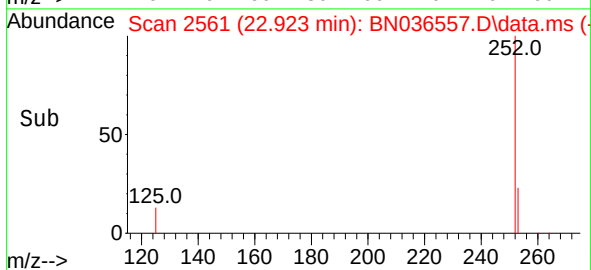
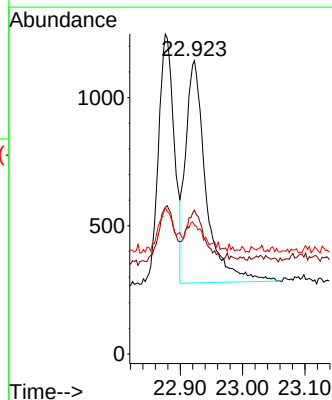
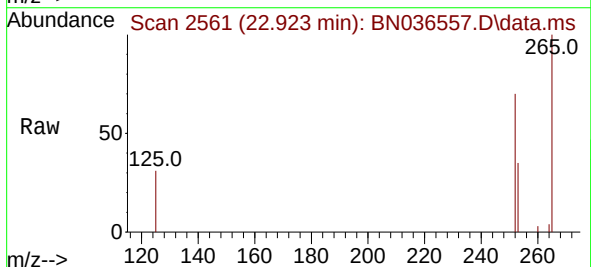
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

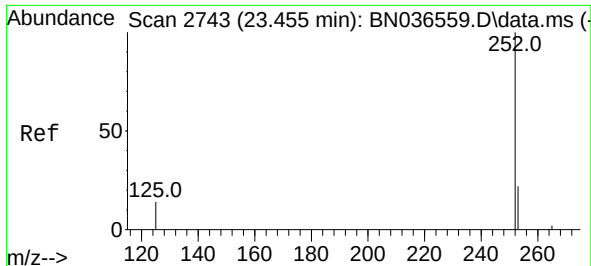
Tgt Ion:252 Resp: 1707
Ion Ratio Lower Upper
252 100
253 45.8 23.9 35.9#
125 45.8 17.4 26.2#



#38
Benzo(k)fluoranthene
Concen: 0.098 ng
RT: 22.923 min Scan# 2561
Delta R.T. 0.006 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:252 Resp: 1958
Ion Ratio Lower Upper
252 100
253 49.0 24.6 36.8#
125 43.9 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 0.089 ng

RT: 23.458 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

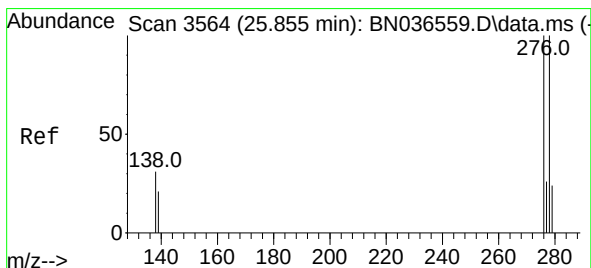
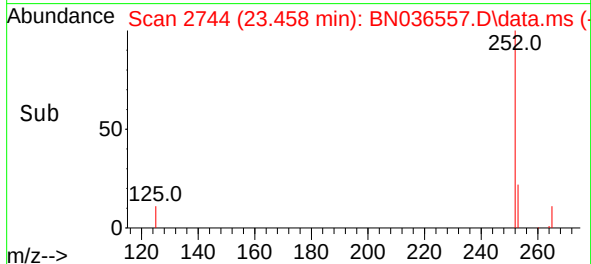
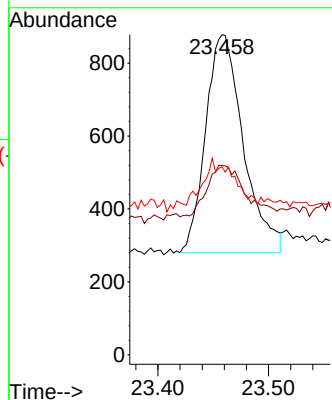
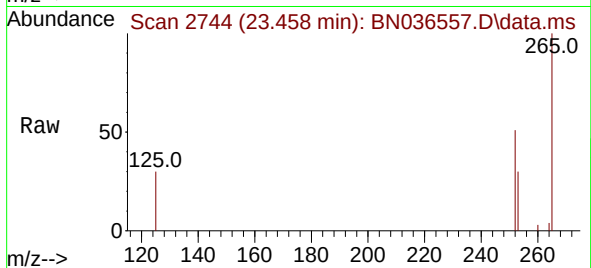
Tgt Ion:252 Resp: 1419

Ion Ratio Lower Upper

252 100

253 59.1 27.8 41.8#

125 58.8 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.079 ng

RT: 25.861 min Scan# 3566

Delta R.T. 0.006 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

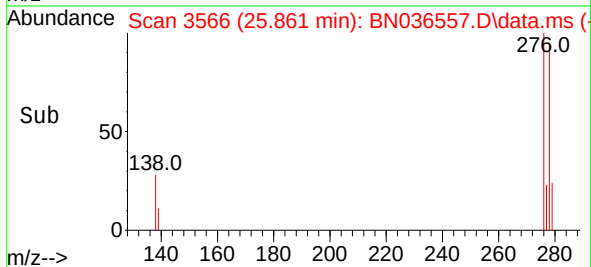
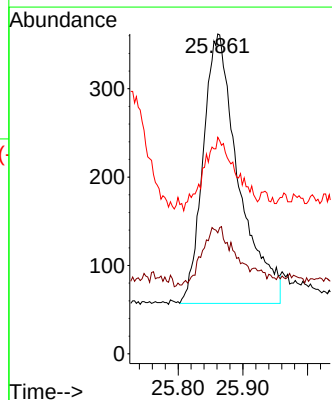
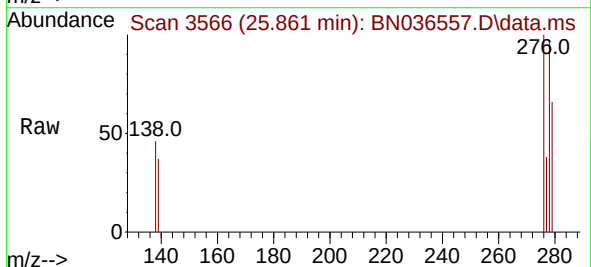
Tgt Ion:278 Resp: 1163

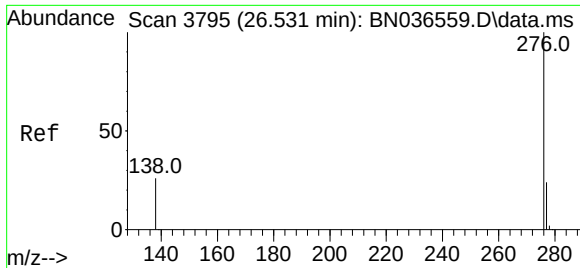
Ion Ratio Lower Upper

278 100

139 37.8 20.8 31.2#

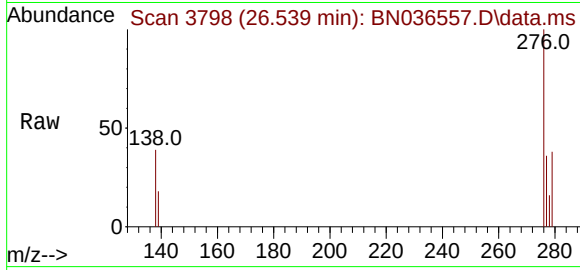
279 67.7 28.8 43.2#



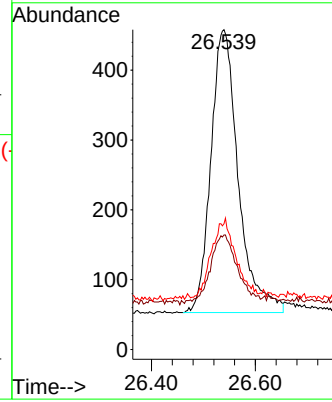
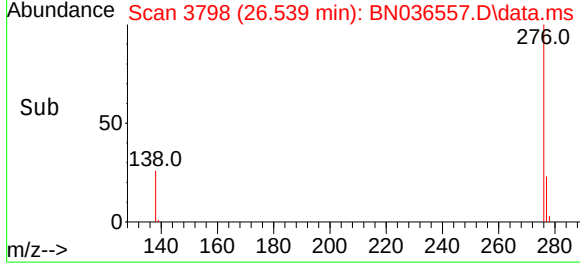


#41
 Benzo(g,h,i)perylene
 Concen: 0.089 ng
 RT: 26.539 min Scan# 31
 Delta R.T. 0.009 min
 Lab File: BN036557.D
 Acq: 10 Mar 2025 11:42

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1



Tgt Ion:	276	Resp:	1482
Ion Ratio	Lower	Upper	
276	100		
277	35.8	22.2	33.4#
138	39.3	24.1	36.1#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036558.D
 Acq On : 10 Mar 2025 12:18
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Mar 10 16:00:58 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

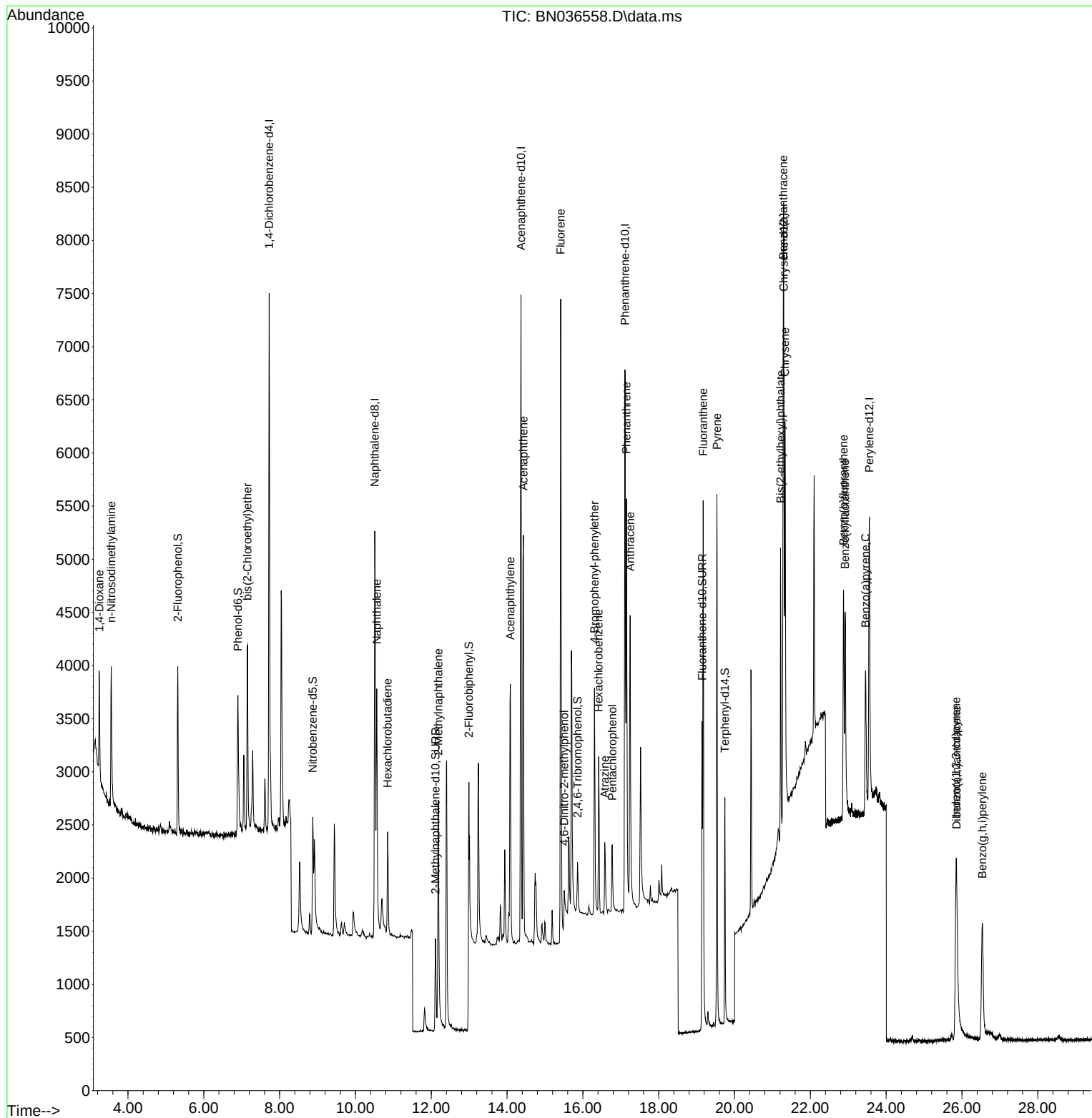
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2504	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5844	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3516	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	7506	0.400	ng	0.00
29) Chrysene-d12	21.295	240	4730	0.400	ng	0.00
35) Perylene-d12	23.554	264	4241	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1137	0.195	ng	0.00
5) Phenol-d6	6.901	99	1323	0.184	ng	0.00
8) Nitrobenzene-d5	8.875	82	1156	0.182	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	1603	0.184	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	282	0.177	ng	0.00
15) 2-Fluorobiphenyl	12.993	172	3485	0.170	ng	0.00
27) Fluoranthene-d10	19.146	212	3583	0.186	ng	0.00
31) Terphenyl-d14	19.745	244	2283	0.201	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.247	88	700	0.252	ng	91
3) n-Nitrosodimethylamine	3.557	42	1094	0.195	ng	92
6) bis(2-Chloroethyl)ether	7.154	93	1440	0.193	ng	99
9) Naphthalene	10.562	128	3286	0.191	ng	97
10) Hexachlorobutadiene	10.850	225	828	0.205	ng	# 97
12) 2-Methylnaphthalene	12.187	142	2034	0.186	ng	97
16) Acenaphthylene	14.088	152	3087	0.186	ng	100
17) Acenaphthene	14.430	154	2038	0.188	ng	99
18) Fluorene	15.414	166	2813	0.191	ng	99
20) 4,6-Dinitro-2-methylph...	15.510	198	214	0.258	ng	# 69
21) 4-Bromophenyl-phenylether	16.304	248	853	0.181	ng	93
22) Hexachlorobenzene	16.416	284	1079	0.190	ng	99
23) Atrazine	16.578	200	716	0.190	ng	97
24) Pentachlorophenol	16.776	266	435	0.168	ng	98
25) Phenanthrene	17.148	178	4171	0.185	ng	100
26) Anthracene	17.248	178	3645	0.179	ng	99
28) Fluoranthene	19.174	202	4666	0.184	ng	99
30) Pyrene	19.536	202	4742	0.205	ng	100
32) Benzo(a)anthracene	21.286	228	3111	0.189	ng	97
33) Chrysene	21.331	228	3568	0.199	ng	97
34) Bis(2-ethylhexyl)phtha...	21.214	149	2601	0.222	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.844	276	2790	0.182	ng	98
37) Benzo(b)fluoranthene	22.876	252	2883	0.187	ng	# 83
38) Benzo(k)fluoranthene	22.917	252	2962	0.183	ng	# 86
39) Benzo(a)pyrene	23.458	252	2443	0.188	ng	# 76
40) Dibenzo(a,h)anthracene	25.858	278	2080	0.175	ng	# 83
41) Benzo(g,h,i)perylene	26.536	276	2573	0.189	ng	95

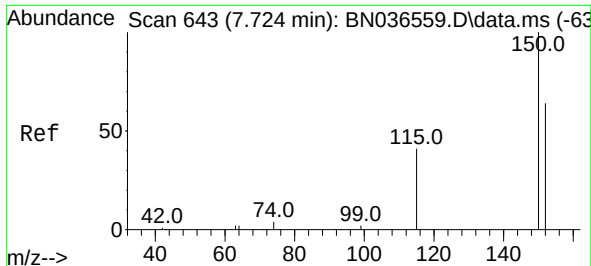
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036558.D
Acq On : 10 Mar 2025 12:18
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

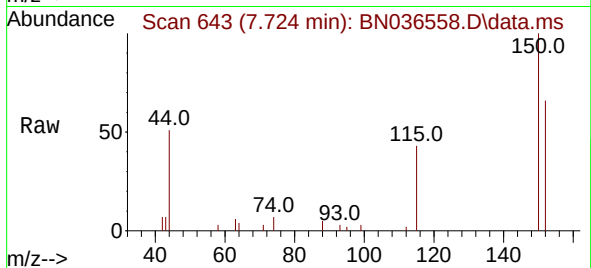
Quant Time: Mar 10 16:00:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration



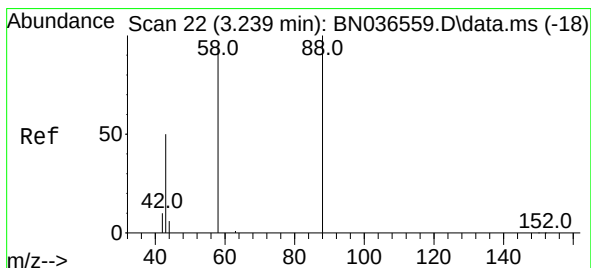
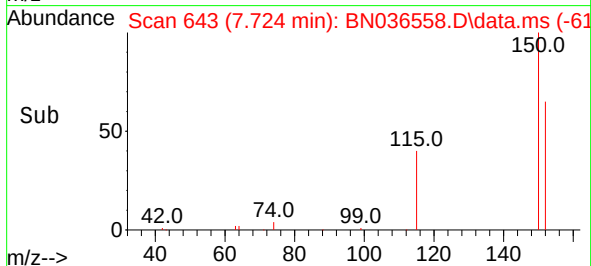
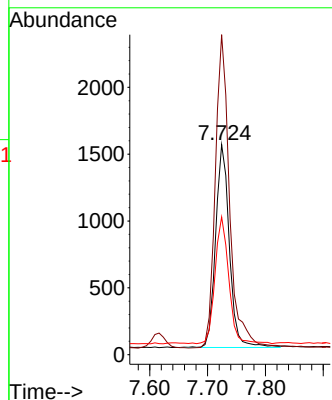


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.724 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

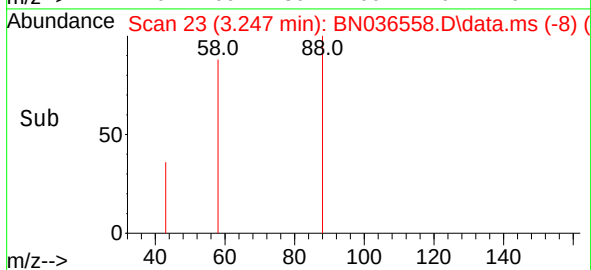
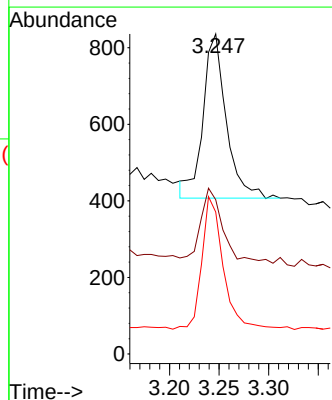
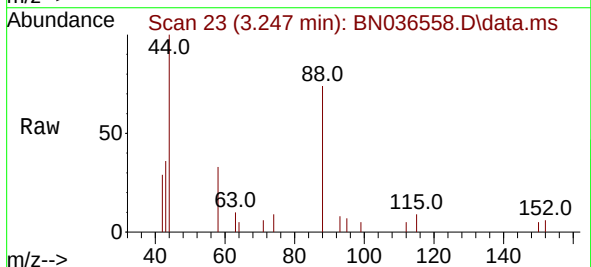


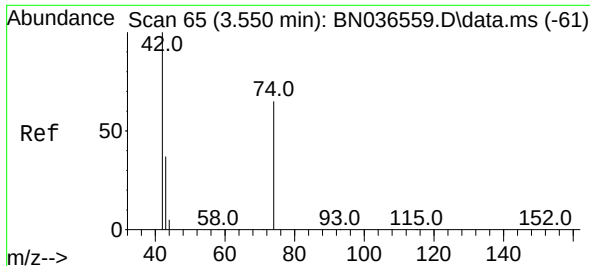
Tgt Ion:152 Resp: 2504
 Ion Ratio Lower Upper
 152 100
 150 152.3 123.7 185.5
 115 65.5 54.3 81.5



#2
 1,4-Dioxane
 Concen: 0.252 ng
 RT: 3.247 min Scan# 23
 Delta R.T. 0.007 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

Tgt Ion: 88 Resp: 700
 Ion Ratio Lower Upper
 88 100
 43 44.4 37.8 56.8
 58 73.7 67.4 101.2

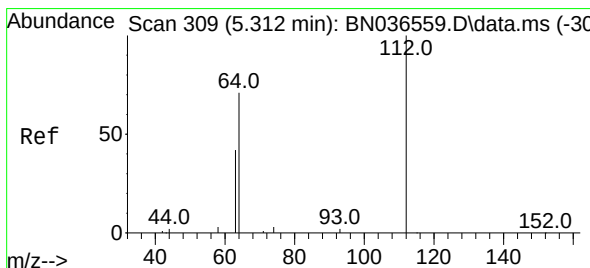
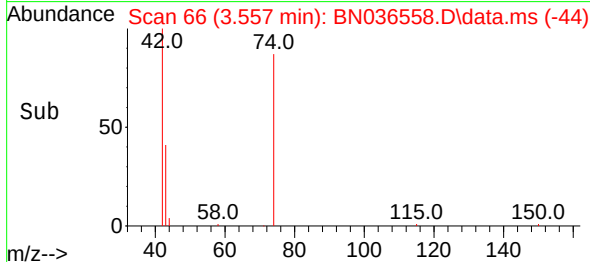
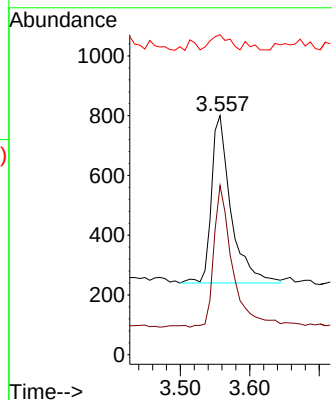
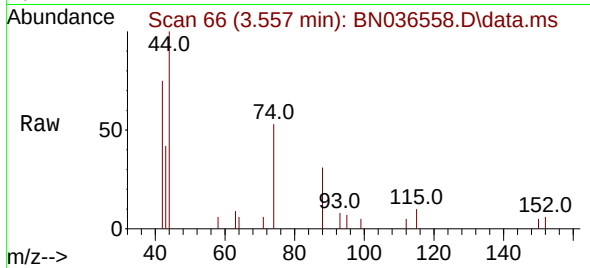




#3
 n-Nitrosodimethylamine
 Concen: 0.195 ng
 RT: 3.557 min Scan# 61
 Delta R.T. 0.007 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

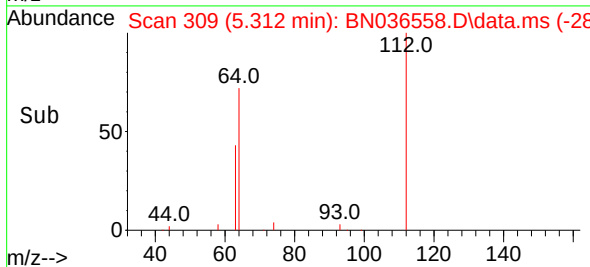
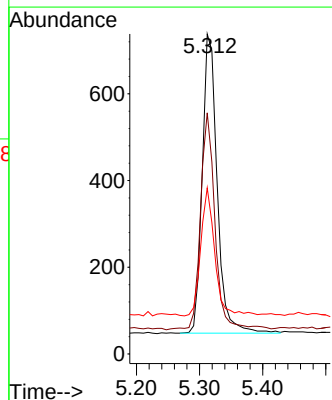
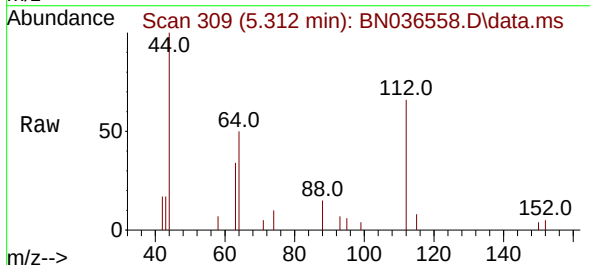
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

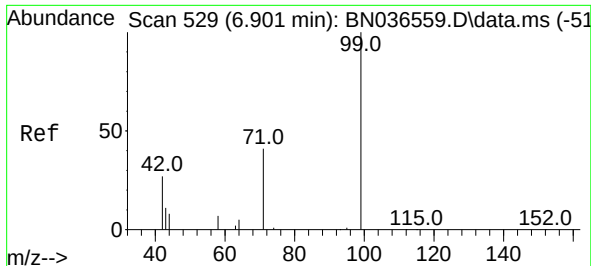
Tgt Ion: 42 Resp: 1094
 Ion Ratio Lower Upper
 42 100
 74 83.2 60.6 90.8
 44 8.5 6.3 9.5



#4
 2-Fluorophenol
 Concen: 0.195 ng
 RT: 5.312 min Scan# 309
 Delta R.T. 0.000 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

Tgt Ion: 112 Resp: 1137
 Ion Ratio Lower Upper
 112 100
 64 70.6 53.1 79.7
 63 40.3 31.8 47.8

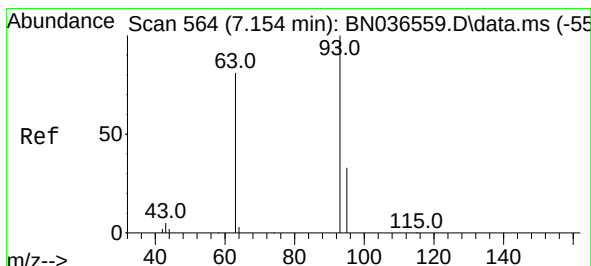
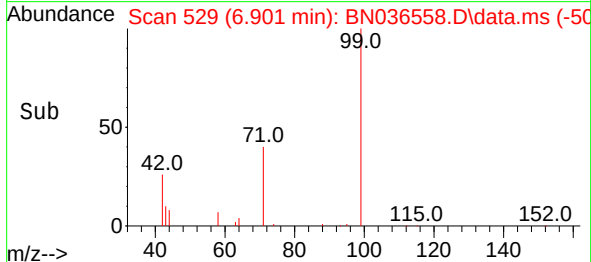
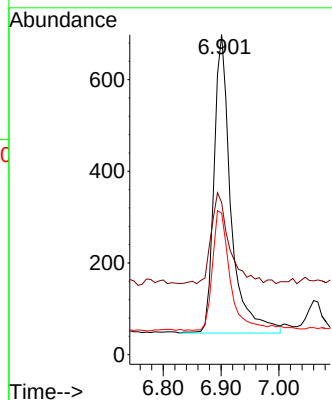
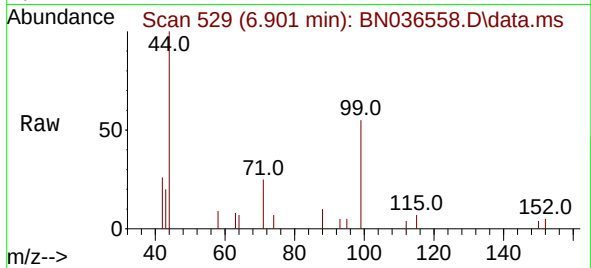




#5
Phenol-d6
Concen: 0.184 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

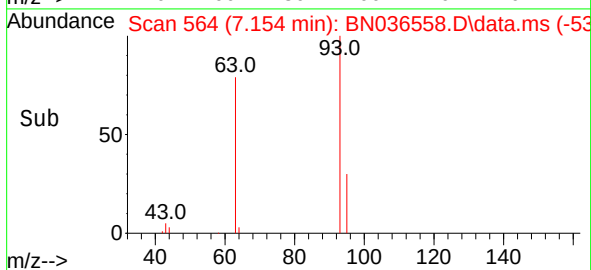
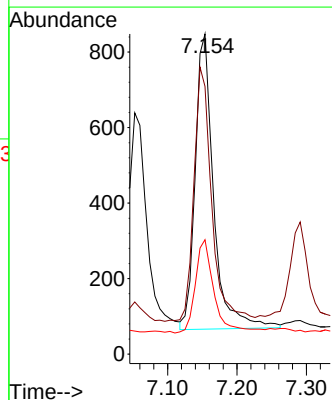
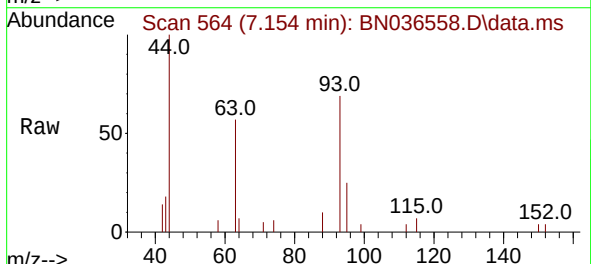
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

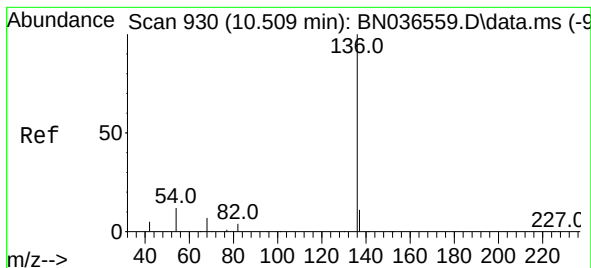
Tgt Ion: 99 Resp: 1323
Ion Ratio Lower Upper
99 100
42 32.7 26.5 39.7
71 41.3 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.193 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 93 Resp: 1440
Ion Ratio Lower Upper
93 100
63 82.9 67.7 101.5
95 31.9 25.6 38.4





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.509 min Scan# 930

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:136 Resp: 5844

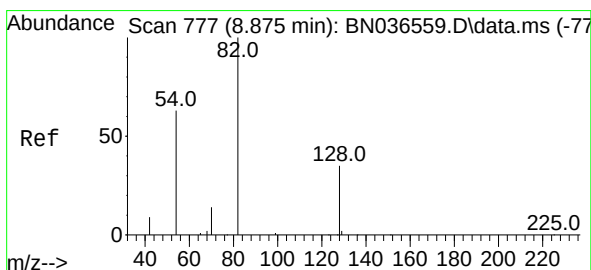
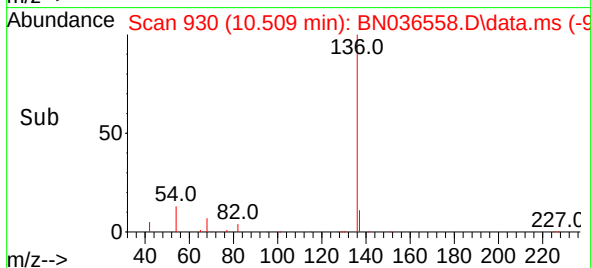
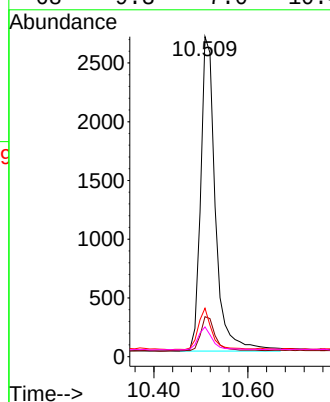
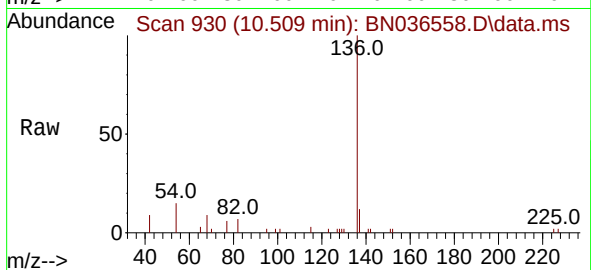
Ion Ratio Lower Upper

136 100

137 12.5 10.3 15.5

54 15.1 11.5 17.3

68 9.3 7.0 10.4



#8

Nitrobenzene-d5

Concen: 0.182 ng

RT: 8.875 min Scan# 777

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

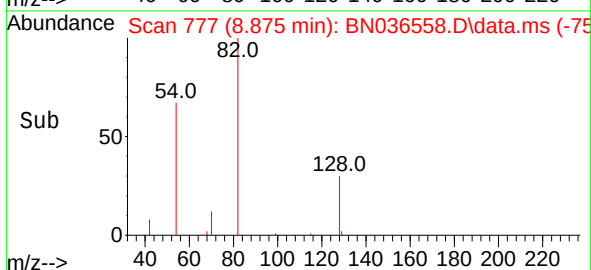
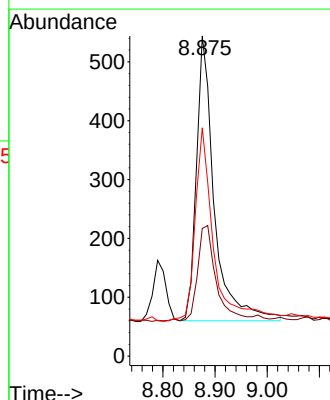
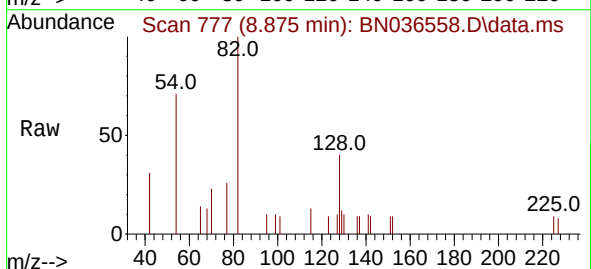
Tgt Ion: 82 Resp: 1156

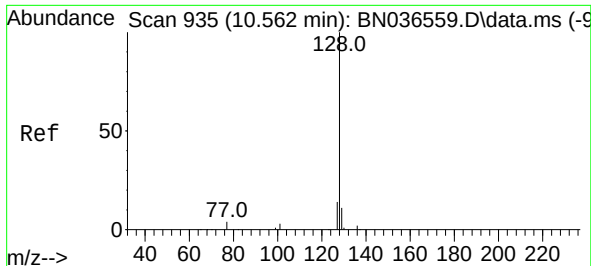
Ion Ratio Lower Upper

82 100

128 39.9 30.6 45.8

54 71.3 52.2 78.4

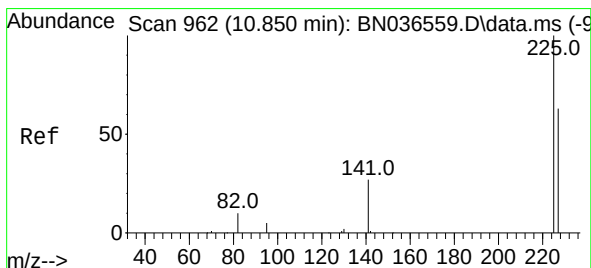
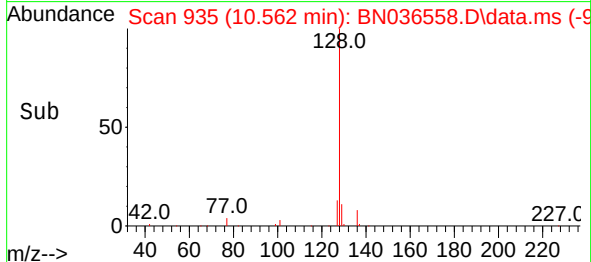
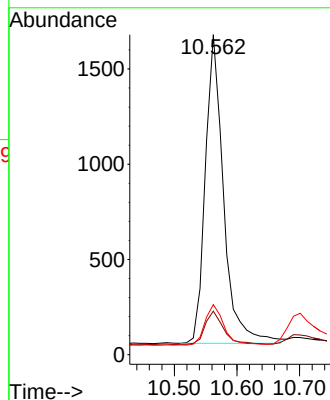
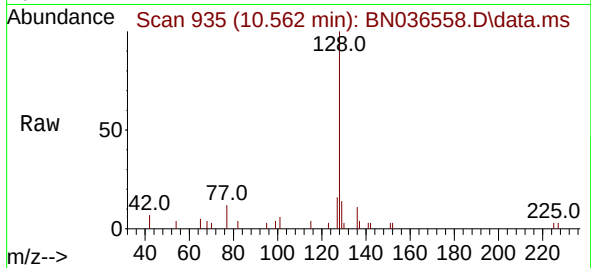




#9
Naphthalene
Concen: 0.191 ng
RT: 10.562 min Scan# 935
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

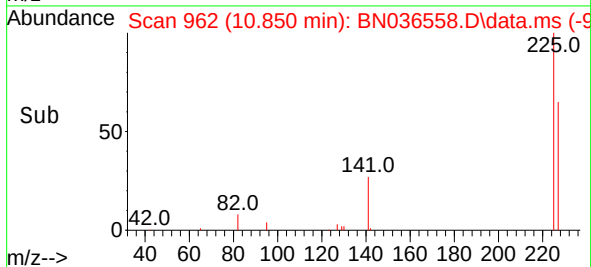
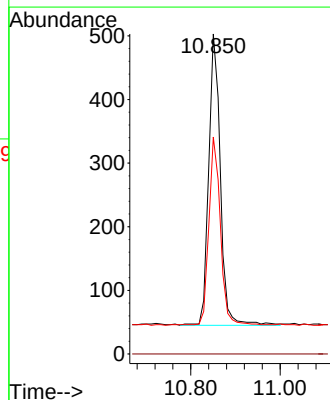
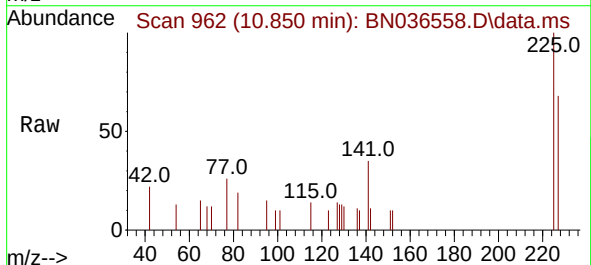
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

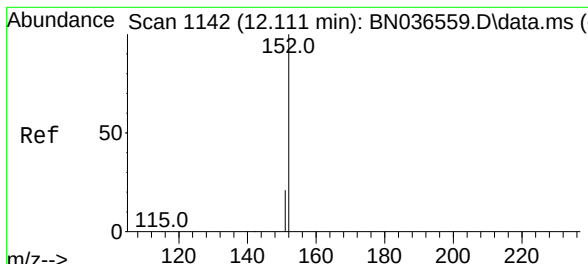
Tgt Ion:	128	Resp:	3286
Ion Ratio	Lower	Upper	
128	100		
129	13.6	9.8	14.6
127	15.7	11.8	17.8



#10
Hexachlorobutadiene
Concen: 0.205 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:	225	Resp:	828
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	62.6	51.8	77.8

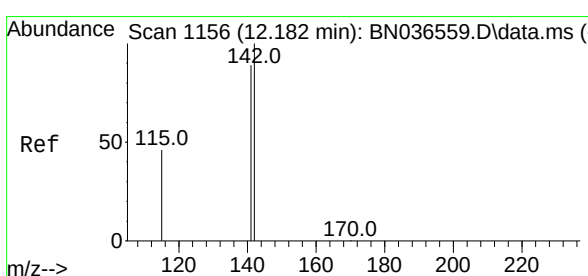
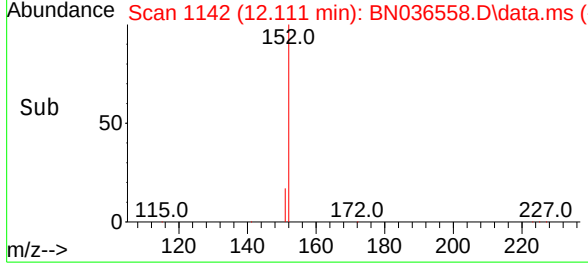
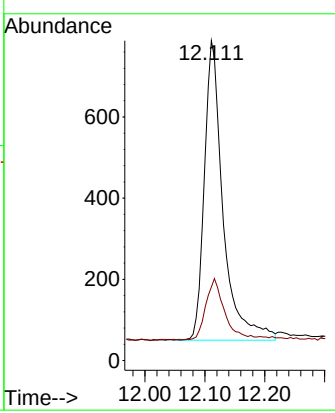
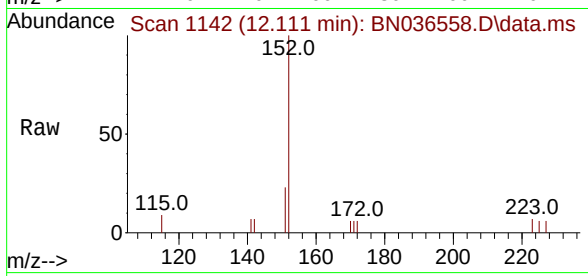




#11
 2-Methylnaphthalene-d10
 Concen: 0.184 ng
 RT: 12.111 min Scan# 1142
 Delta R.T. 0.000 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

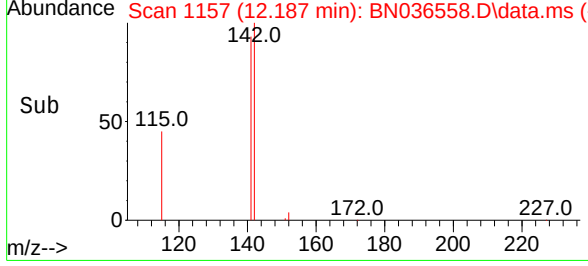
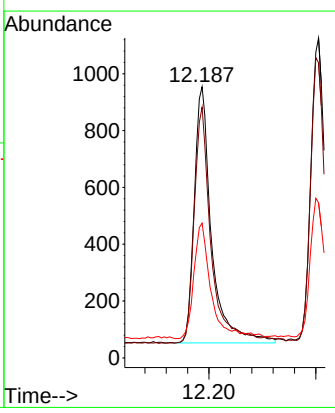
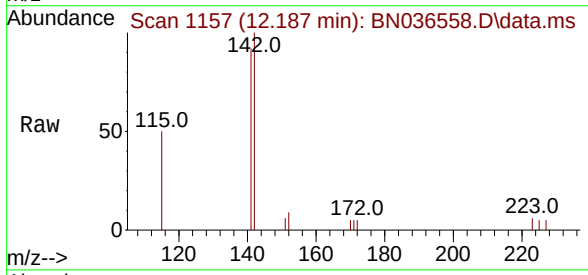
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

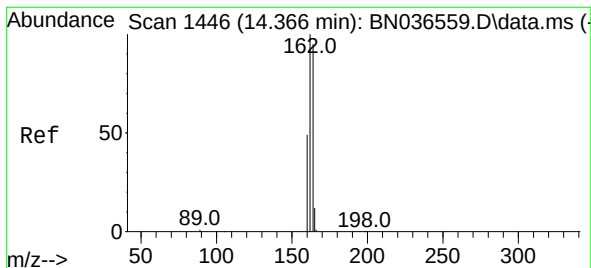
Tgt Ion:	152	Resp:	1603
Ion Ratio	Lower	Upper	
152	100		
151	21.0	17.0	25.6



#12
 2-Methylnaphthalene
 Concen: 0.186 ng
 RT: 12.187 min Scan# 1157
 Delta R.T. 0.005 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

Tgt Ion:	142	Resp:	2034
Ion Ratio	Lower	Upper	
142	100		
141	92.5	71.7	107.5
115	49.7	38.3	57.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.366 min Scan# 1446

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

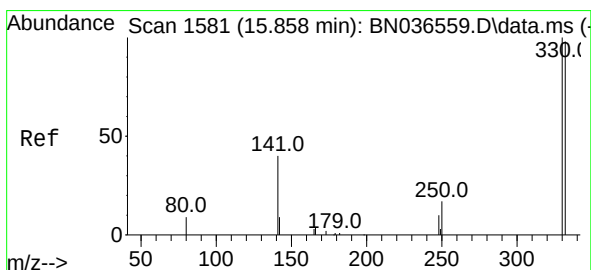
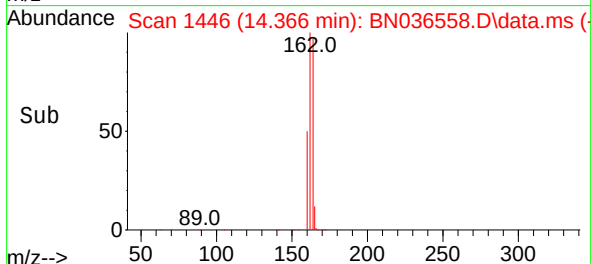
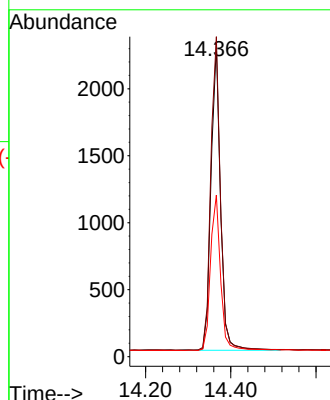
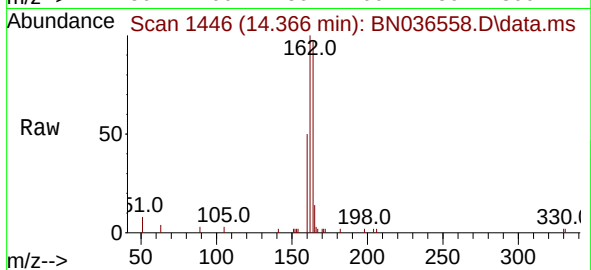
Tgt Ion:164 Resp: 3516

Ion Ratio Lower Upper

164 100

162 102.6 84.2 126.2

160 51.8 42.2 63.2



#14

2,4,6-Tribromophenol

Concen: 0.177 ng

RT: 15.858 min Scan# 1581

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

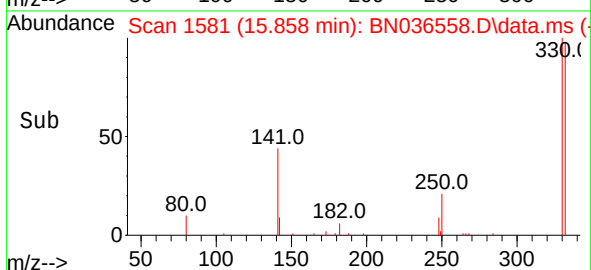
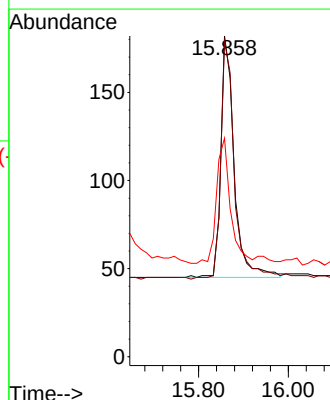
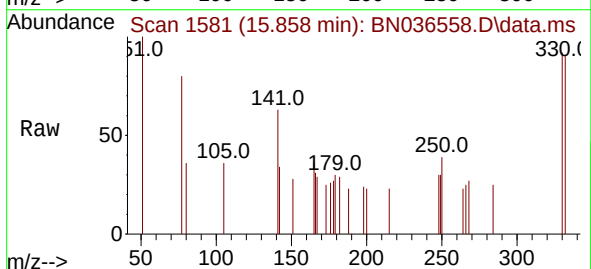
Tgt Ion:330 Resp: 282

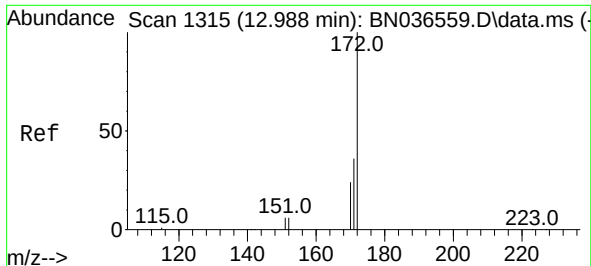
Ion Ratio Lower Upper

330 100

332 103.5 75.2 112.8

141 53.9 43.4 65.2





#15

2-Fluorobiphenyl

Concen: 0.170 ng

RT: 12.993 min Scan# 1415

Delta R.T. 0.005 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

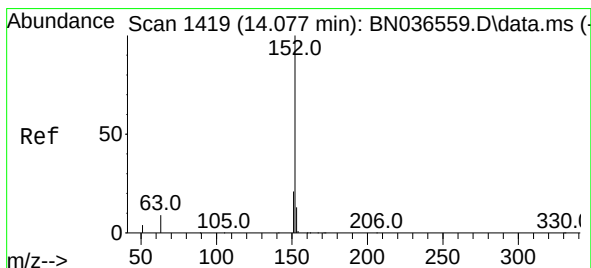
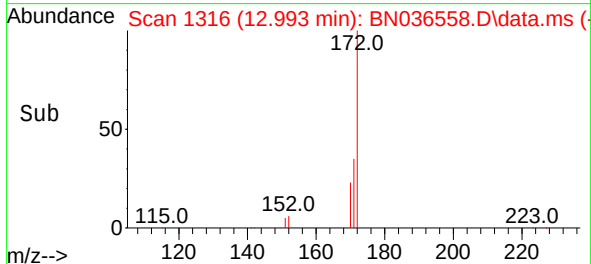
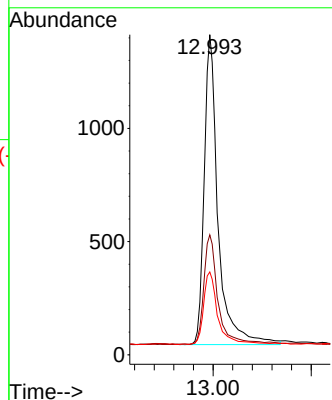
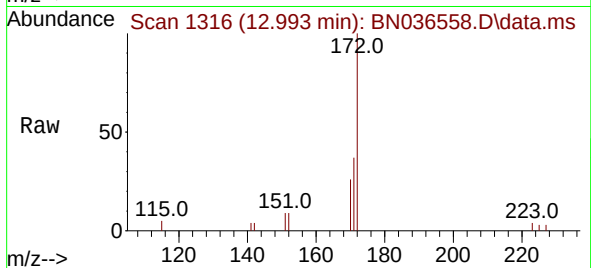
Tgt Ion:172 Resp: 3485

Ion Ratio Lower Upper

172 100

171 37.5 29.5 44.3

170 25.9 20.2 30.4



#16

Acenaphthylene

Concen: 0.186 ng

RT: 14.088 min Scan# 1420

Delta R.T. 0.011 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

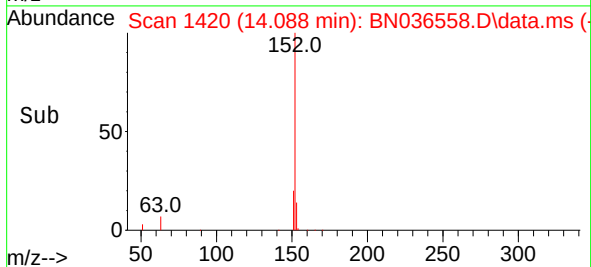
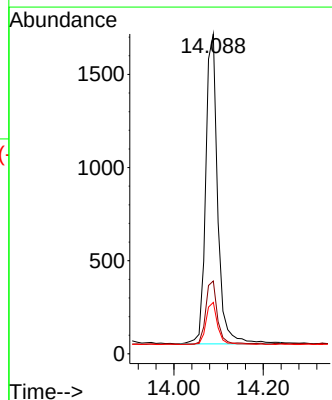
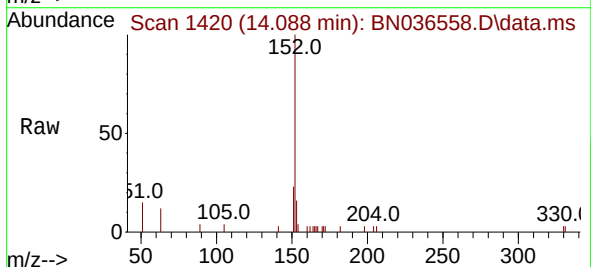
Tgt Ion:152 Resp: 3087

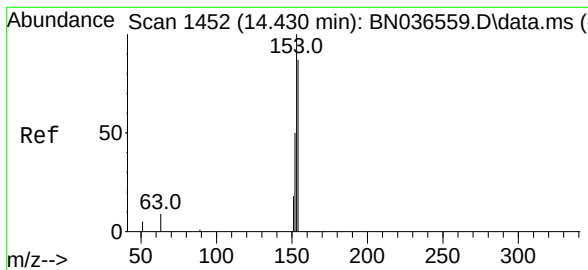
Ion Ratio Lower Upper

152 100

151 20.4 16.2 24.4

153 13.0 10.6 15.8

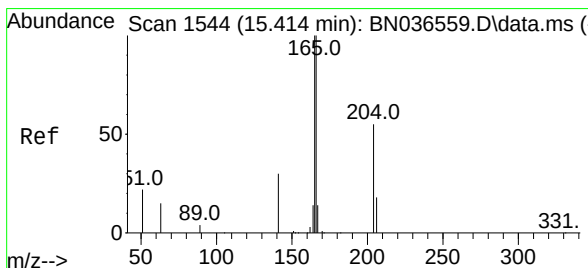
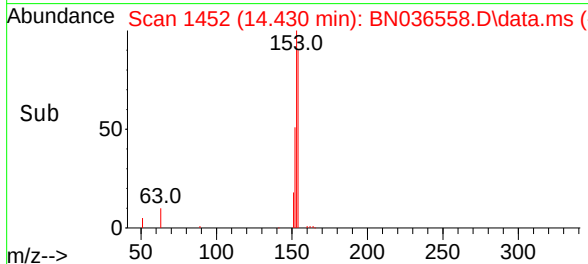
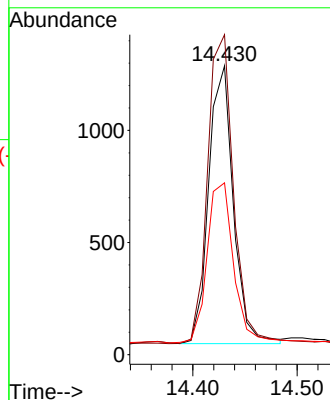
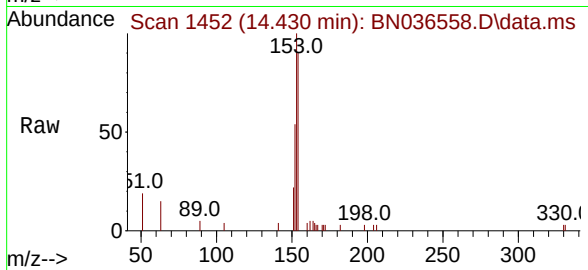




#17
Acenaphthene
Concen: 0.188 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

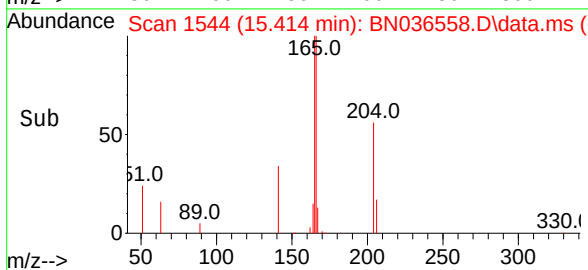
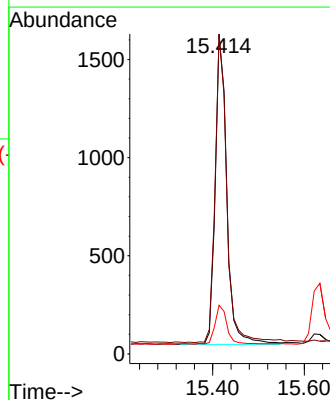
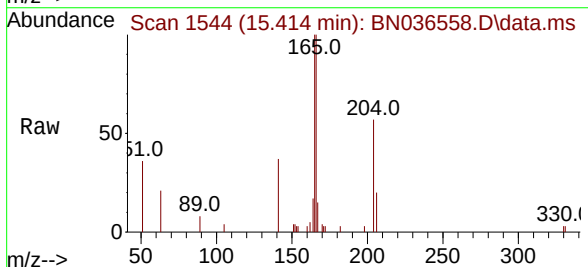
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

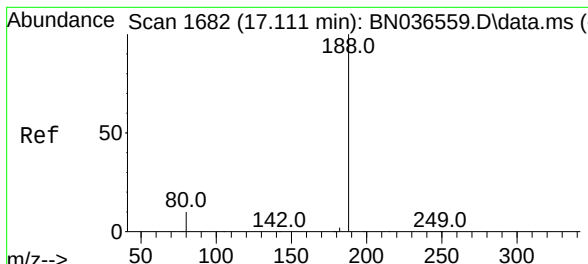
Tgt Ion:	154	Resp:	2038
Ion Ratio	Lower	Upper	
154	100		
153	117.8	94.1	141.1
152	63.1	49.8	74.6



#18
Fluorene
Concen: 0.191 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:	166	Resp:	2813
Ion Ratio	Lower	Upper	
166	100		
165	101.1	79.8	119.8
167	12.6	10.6	15.8

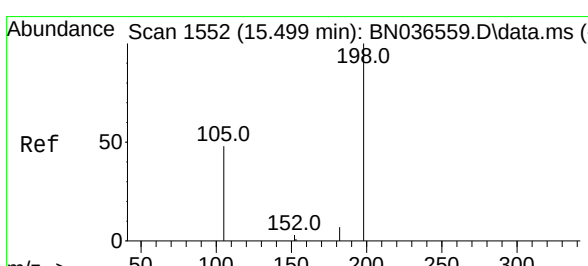
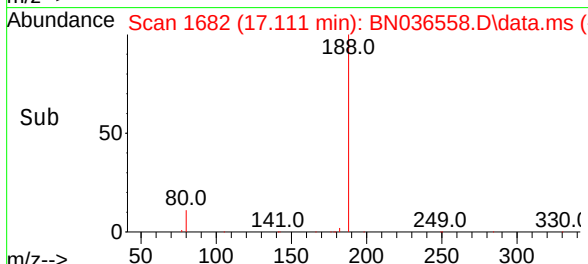
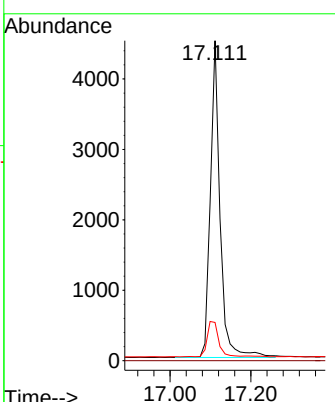
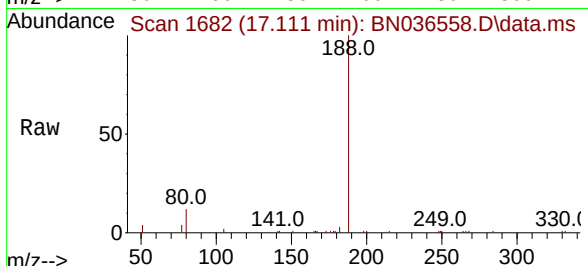




#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.111 min Scan# 1
 Delta R.T. 0.000 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

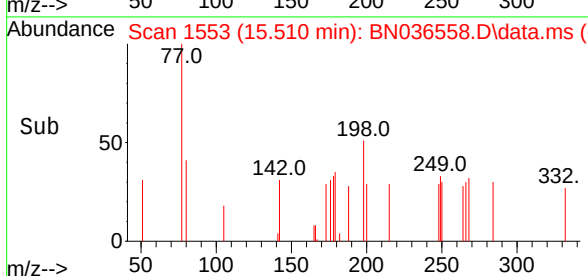
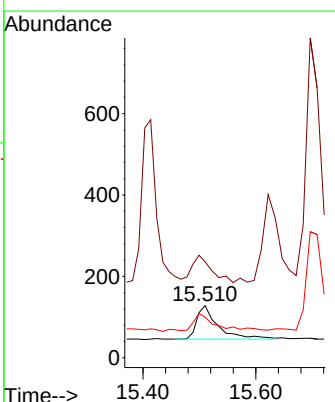
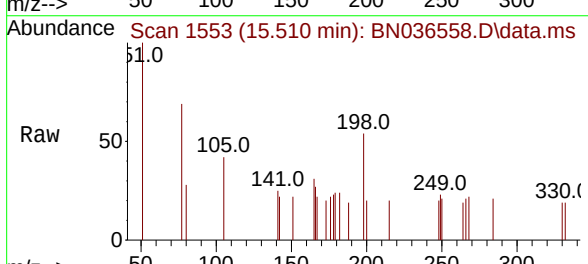
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

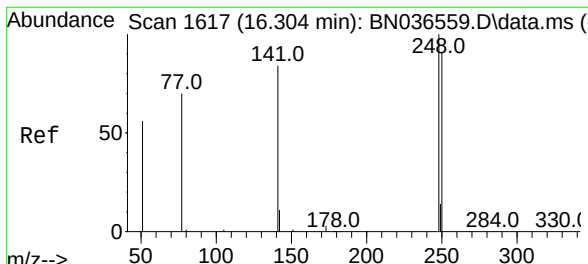
Tgt Ion:	188	Resp:	7506
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	11.9	8.8	13.2



#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.258 ng
 RT: 15.510 min Scan# 1553
 Delta R.T. 0.011 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

Tgt Ion:	198	Resp:	214
Ion Ratio	Lower	Upper	
198	100		
51	184.4	107.9	161.9#
105	78.1	56.2	84.2

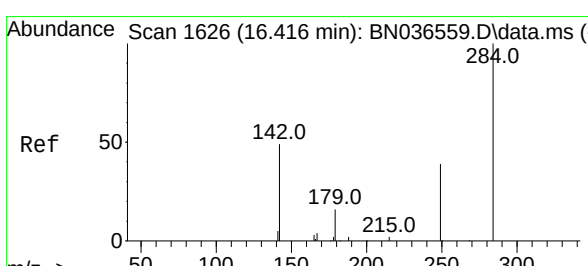
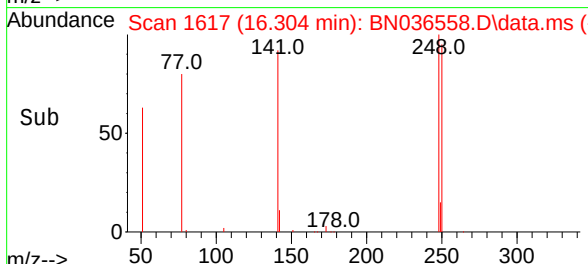
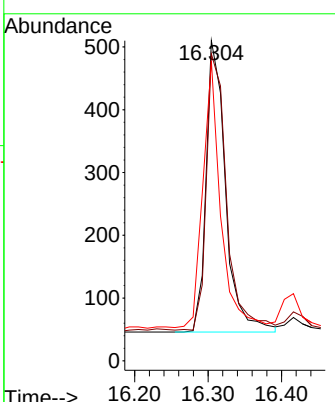
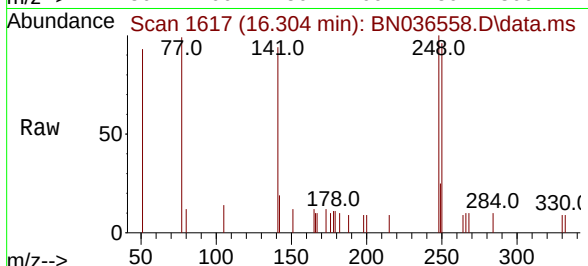




#21
 4-Bromophenyl-phenylether
 Concen: 0.181 ng
 RT: 16.304 min Scan# 1617
 Delta R.T. 0.000 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

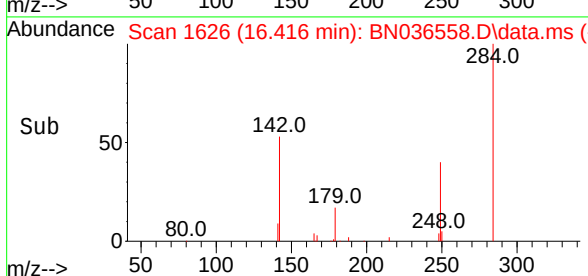
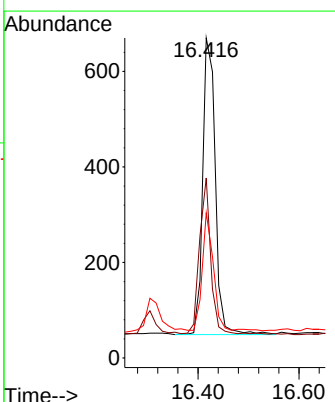
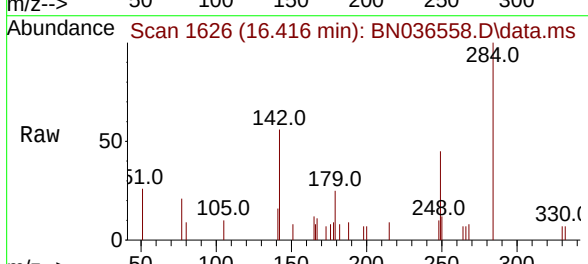
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

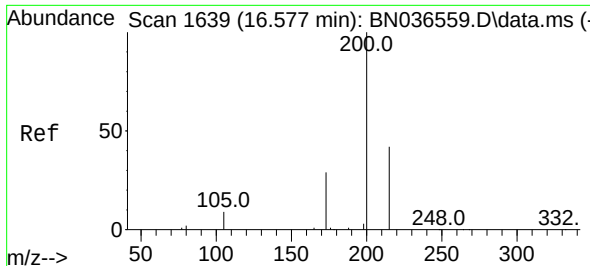
Tgt Ion:	248	Resp:	853
Ion Ratio	Lower	Upper	
248	100		
250	95.9	73.0	109.6
141	93.7	68.6	103.0



#22
 Hexachlorobenzene
 Concen: 0.190 ng
 RT: 16.416 min Scan# 1626
 Delta R.T. 0.000 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

Tgt Ion:	284	Resp:	1079
Ion Ratio	Lower	Upper	
284	100		
142	47.0	37.0	55.4
249	34.8	28.1	42.1

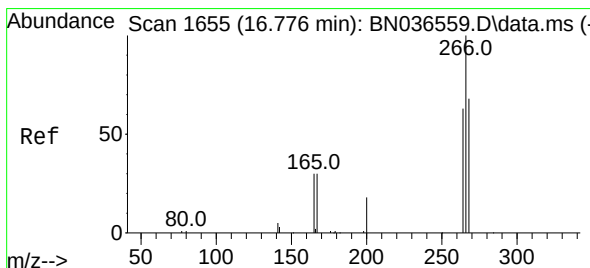
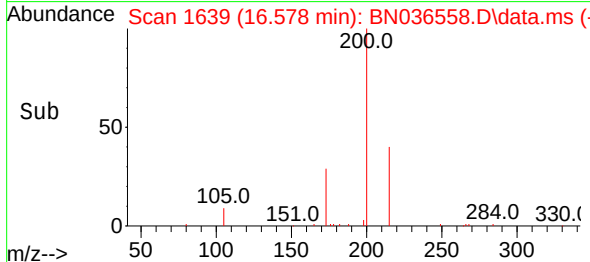
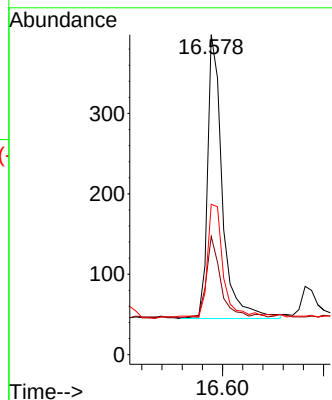
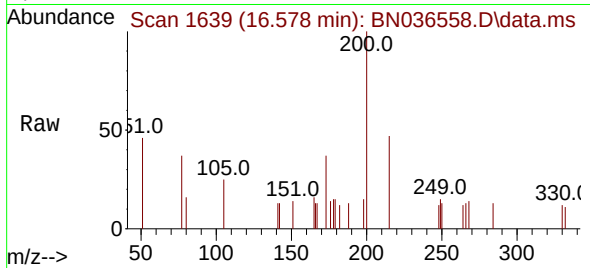




#23
Atrazine
Concen: 0.190 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

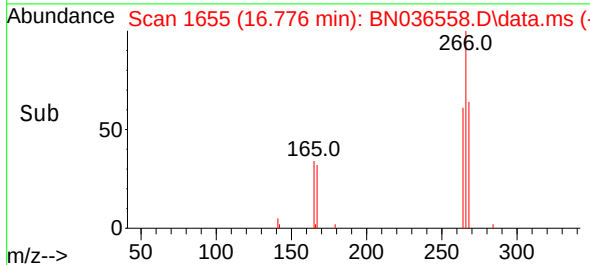
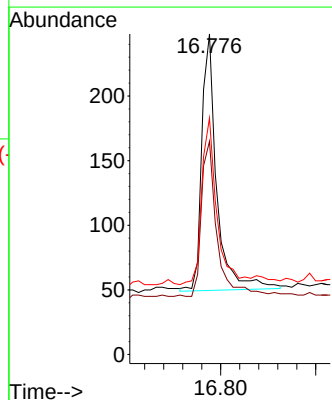
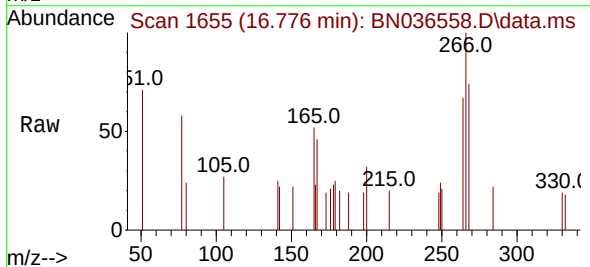
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

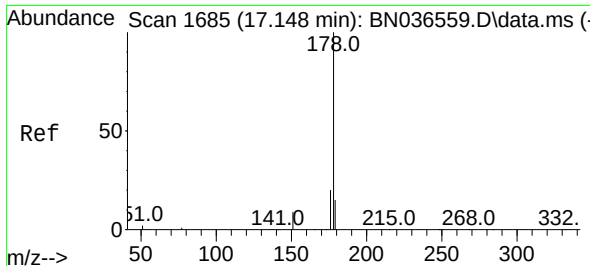
Tgt Ion:200 Resp: 716
Ion Ratio Lower Upper
200 100
173 36.9 27.3 40.9
215 47.0 36.8 55.2



#24
Pentachlorophenol
Concen: 0.168 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:266 Resp: 435
Ion Ratio Lower Upper
266 100
264 63.4 49.6 74.4
268 65.7 50.9 76.3

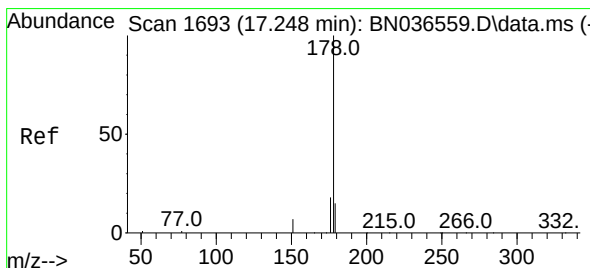
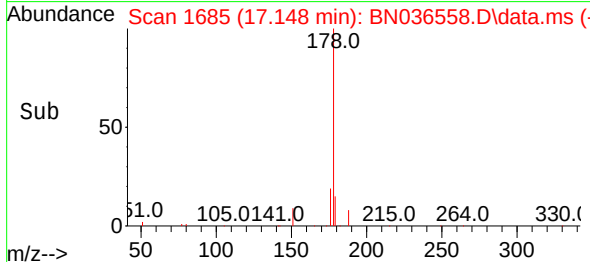
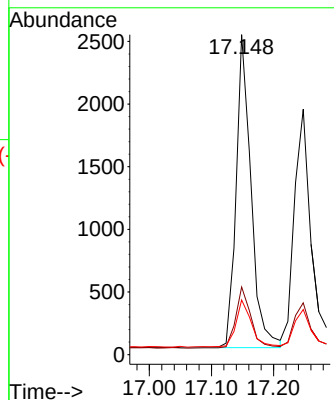
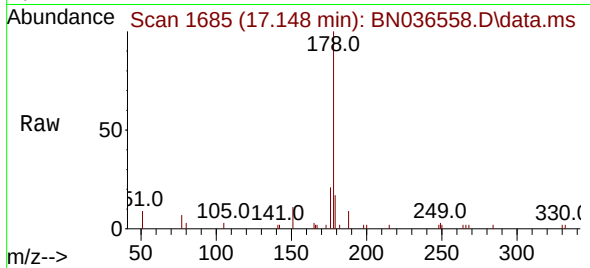




#25
Phenanthrene
Concen: 0.185 ng
RT: 17.148 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

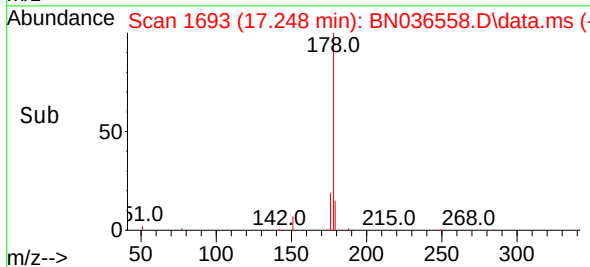
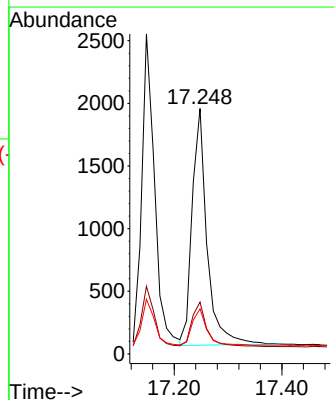
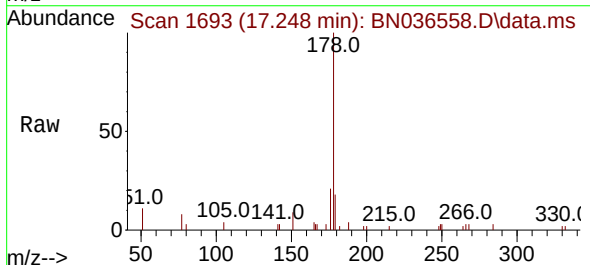
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

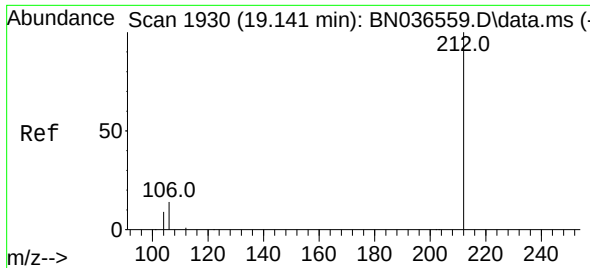
Tgt Ion:	178	Resp:	4171
Ion Ratio	Lower	Upper	
178	100		
176	20.0	15.9	23.9
179	15.5	12.2	18.4



#26
Anthracene
Concen: 0.179 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:	178	Resp:	3645
Ion Ratio	Lower	Upper	
178	100		
176	19.1	15.4	23.2
179	15.1	12.6	18.8





#27

Fluoranthene-d10

Concen: 0.186 ng

RT: 19.146 min Scan# 1931

Delta R.T. 0.005 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

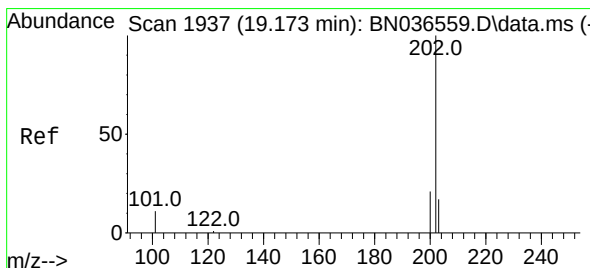
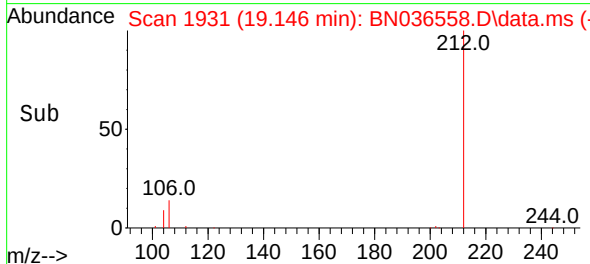
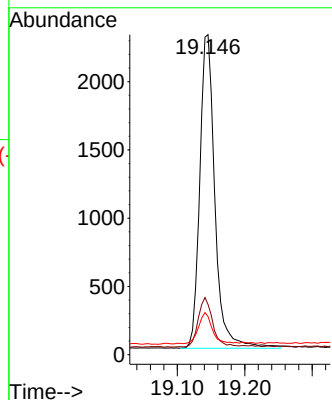
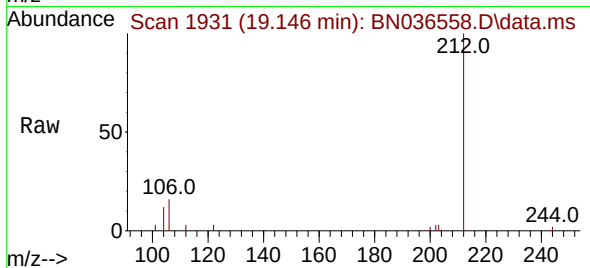
Tgt Ion:212 Resp: 3583

Ion Ratio Lower Upper

212 100

106 15.0 11.8 17.6

104 9.3 7.3 10.9



#28

Fluoranthene

Concen: 0.184 ng

RT: 19.174 min Scan# 1937

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

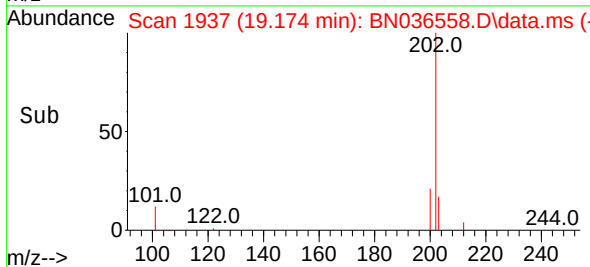
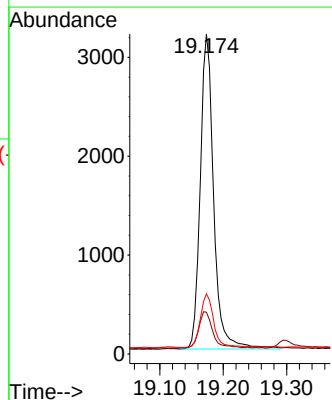
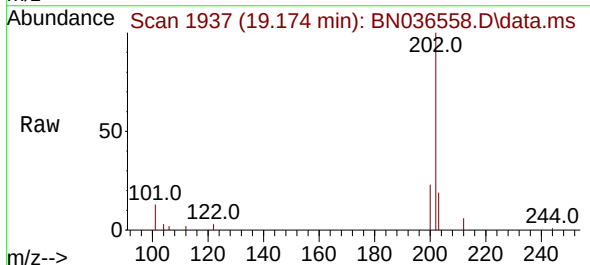
Tgt Ion:202 Resp: 4666

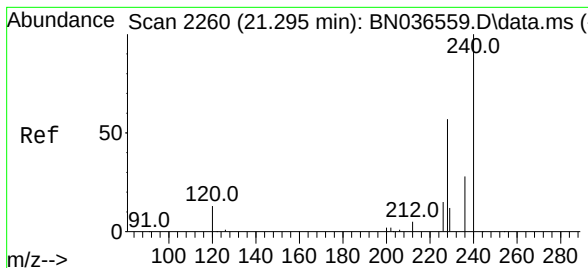
Ion Ratio Lower Upper

202 100

101 12.1 9.4 14.0

203 17.1 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

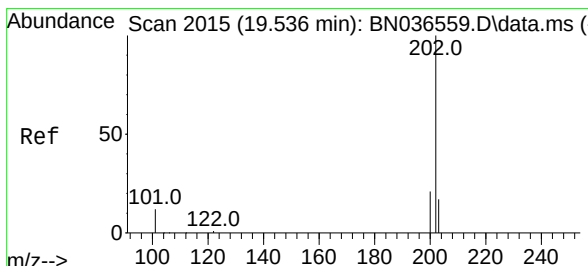
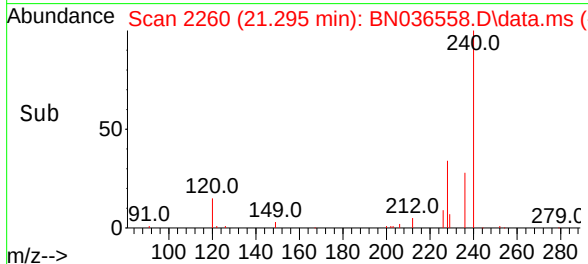
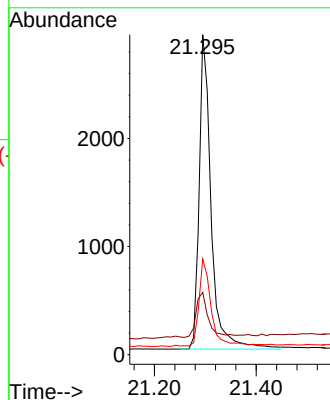
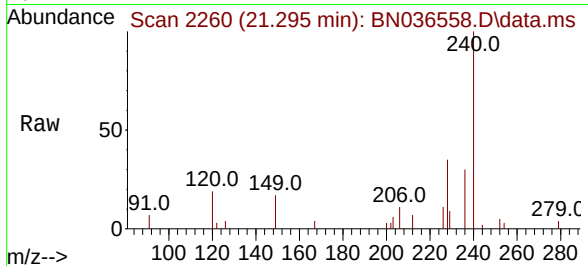
Tgt Ion:240 Resp: 4730

Ion Ratio Lower Upper

240 100

120 19.5 14.6 22.0

236 29.9 24.1 36.1



#30

Pyrene

Concen: 0.205 ng

RT: 19.536 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

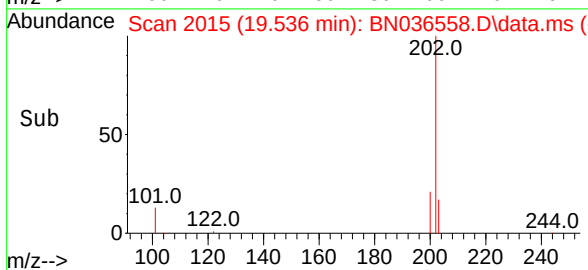
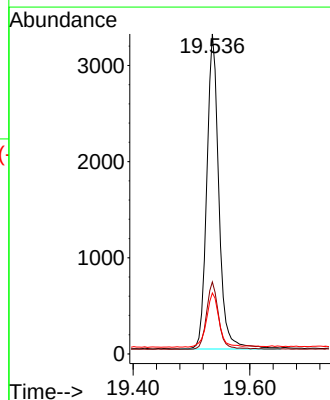
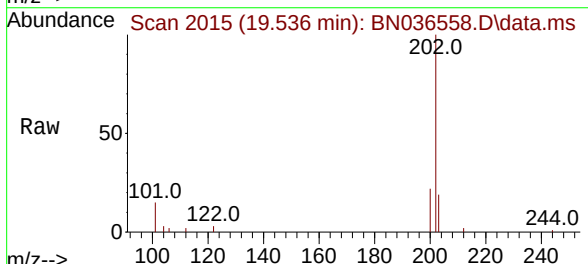
Tgt Ion:202 Resp: 4742

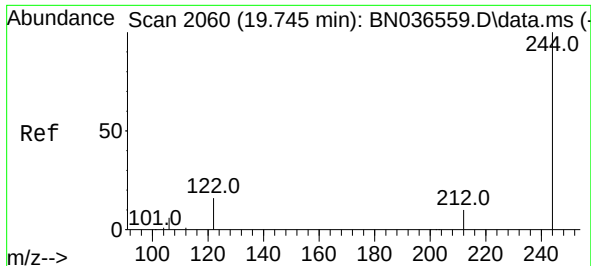
Ion Ratio Lower Upper

202 100

200 21.1 17.1 25.7

203 17.7 14.1 21.1

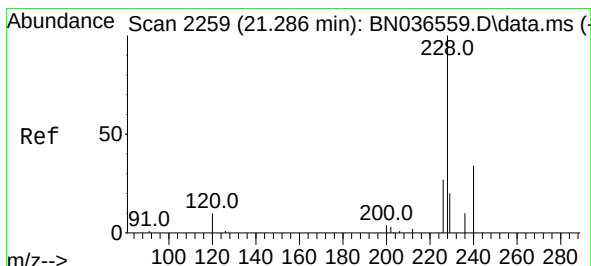
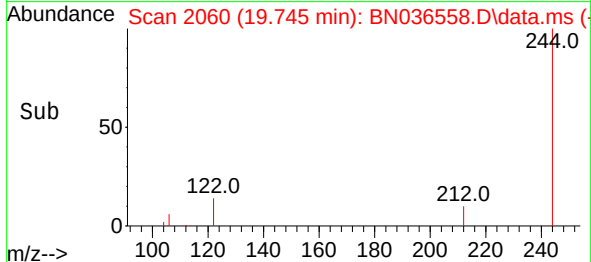
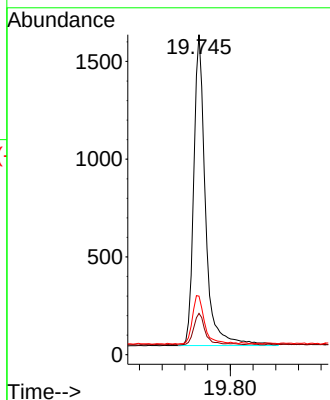
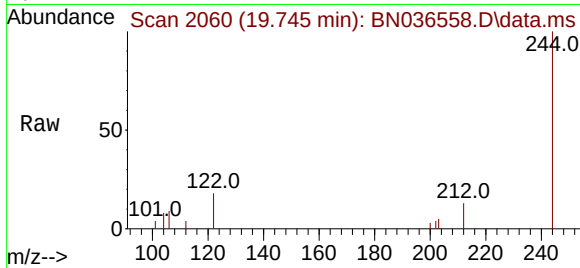




#31
 Terphenyl-d14
 Concen: 0.201 ng
 RT: 19.745 min Scan# 2060
 Delta R.T. 0.000 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

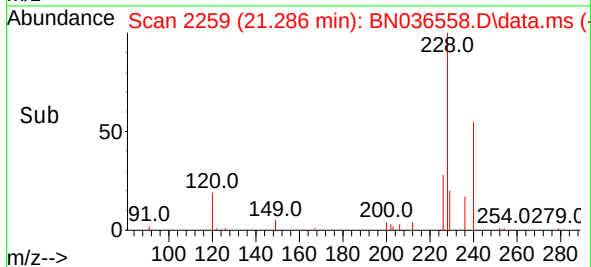
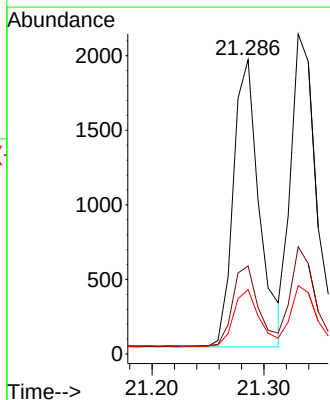
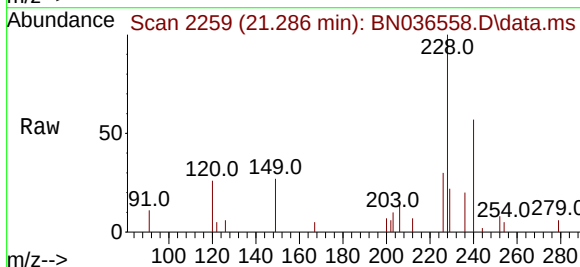
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

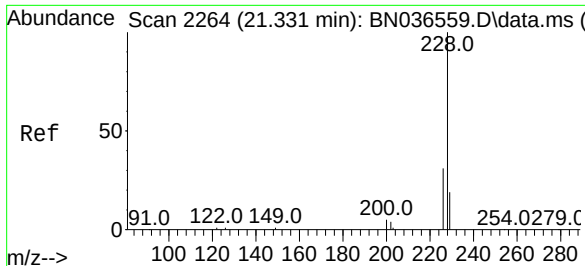
Tgt Ion:244	Resp:	2283	
Ion	Ratio	Lower	Upper
244	100		
212	12.9	9.6	14.4
122	18.3	13.9	20.9



#32
 Benzo(a)anthracene
 Concen: 0.189 ng
 RT: 21.286 min Scan# 2259
 Delta R.T. 0.000 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

Tgt Ion:228	Resp:	3111	
Ion	Ratio	Lower	Upper
228	100		
226	29.9	22.5	33.7
229	21.9	16.6	25.0

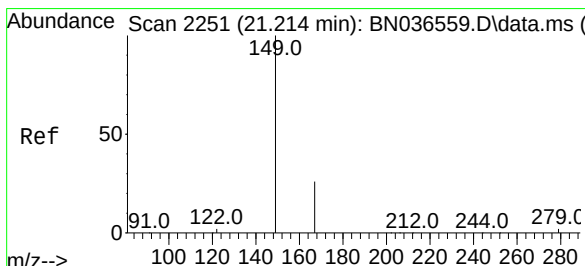
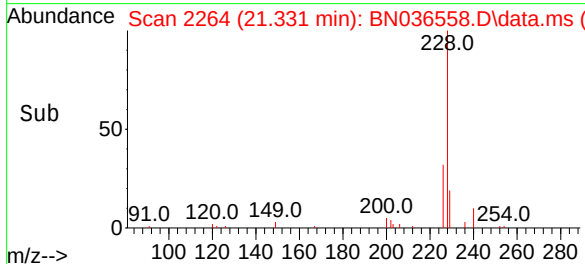
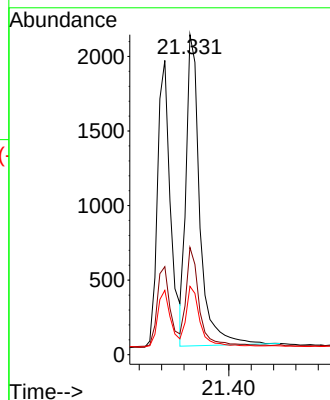
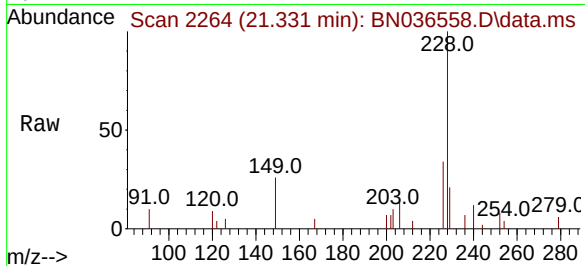




#33
Chrysene
Concen: 0.199 ng
RT: 21.331 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

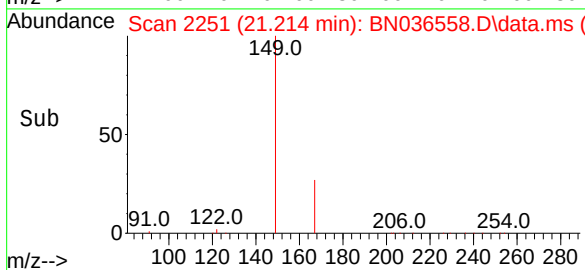
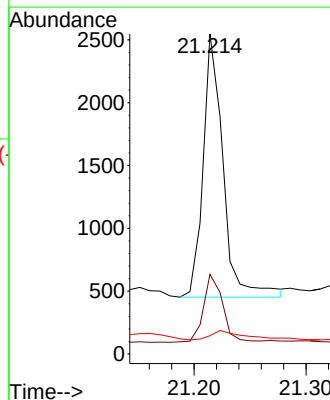
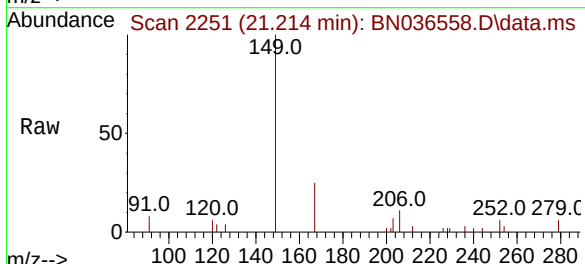
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

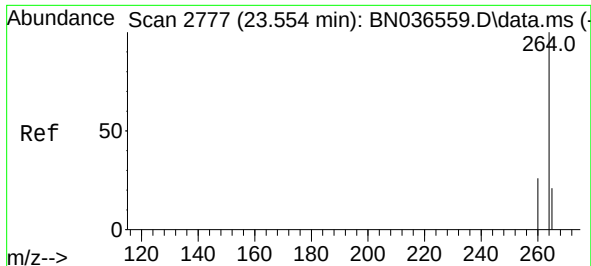
Tgt Ion:228 Resp: 3568
Ion Ratio Lower Upper
228 100
226 33.5 25.3 37.9
229 21.4 15.8 23.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.222 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:149 Resp: 2601
Ion Ratio Lower Upper
149 100
167 24.7 20.7 31.1
279 5.7 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036558.D

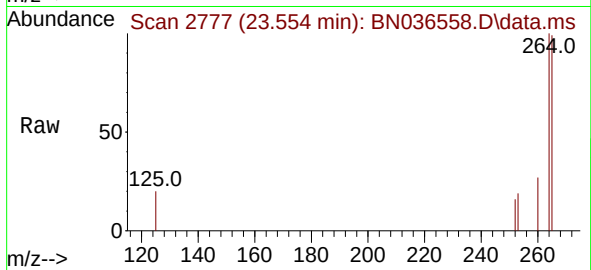
Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



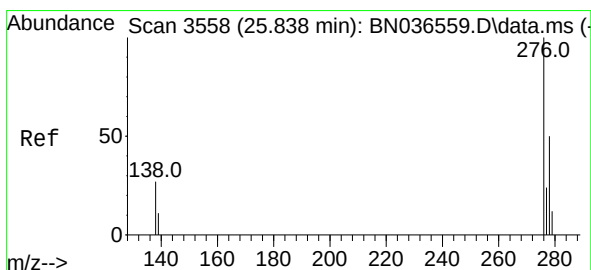
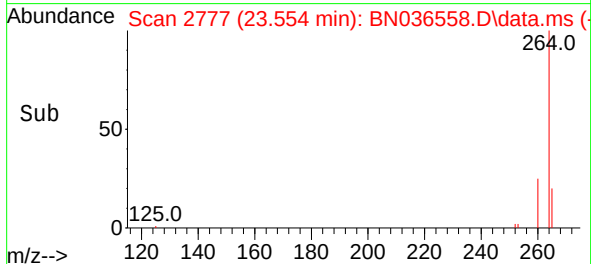
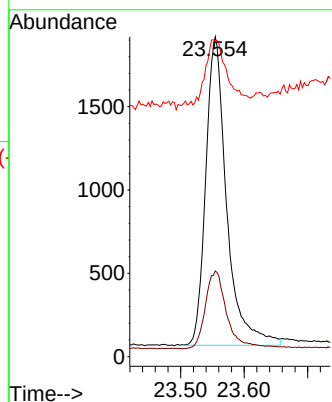
Tgt Ion:264 Resp: 4241

Ion Ratio Lower Upper

264 100

260 26.8 22.6 33.8

265 98.5 88.1 132.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.182 ng

RT: 25.844 min Scan# 3560

Delta R.T. 0.006 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

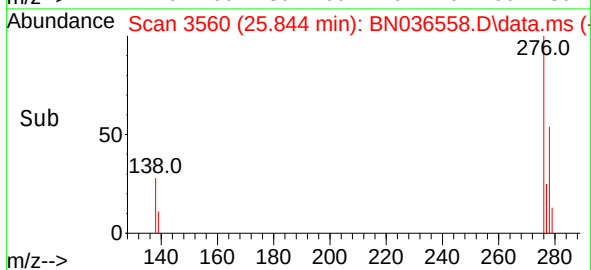
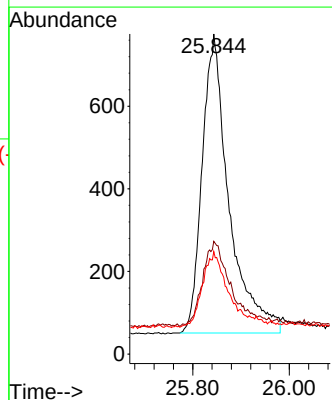
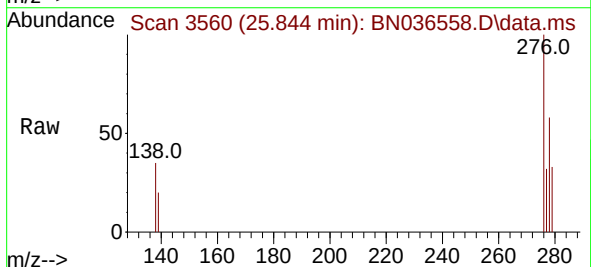
Tgt Ion:276 Resp: 2790

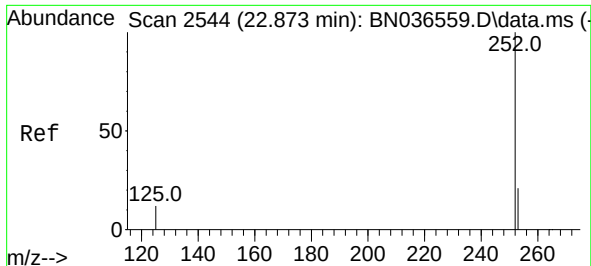
Ion Ratio Lower Upper

276 100

138 29.1 23.4 35.2

277 23.4 20.0 30.0

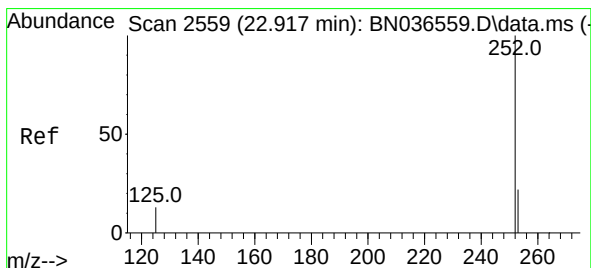
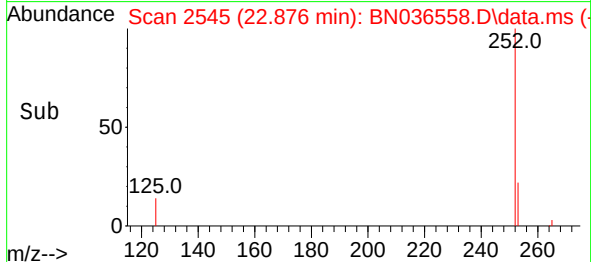
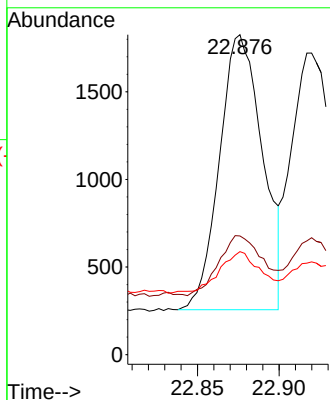
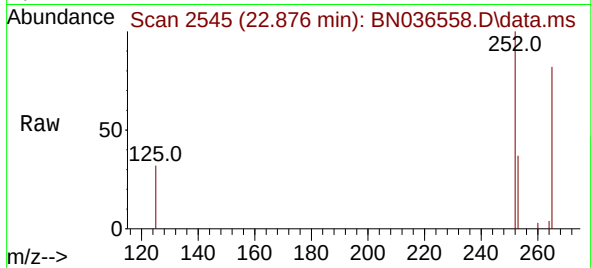




#37
Benzo(b)fluoranthene
Concen: 0.187 ng
RT: 22.876 min Scan# 2544
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

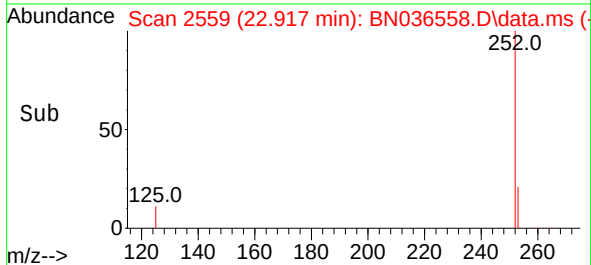
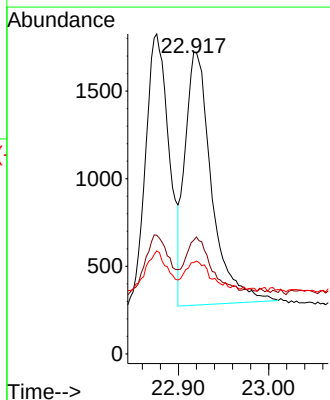
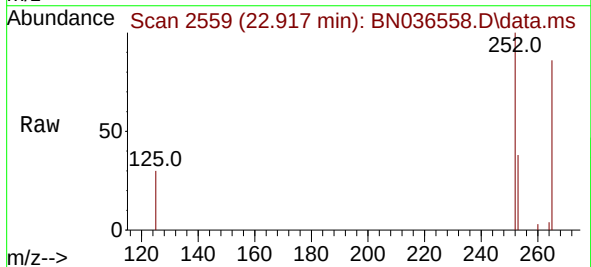
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

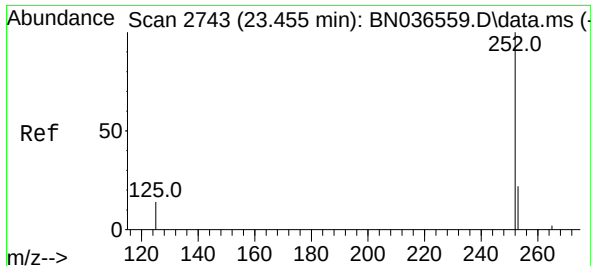
Tgt Ion:252 Resp: 2883
Ion Ratio Lower Upper
252 100
253 37.1 23.9 35.9#
125 32.2 17.4 26.2#



#38
Benzo(k)fluoranthene
Concen: 0.183 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:252 Resp: 2962
Ion Ratio Lower Upper
252 100
253 37.7 24.6 36.8#
125 30.3 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 0.188 ng

RT: 23.458 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

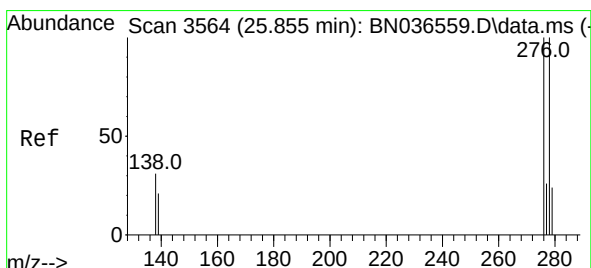
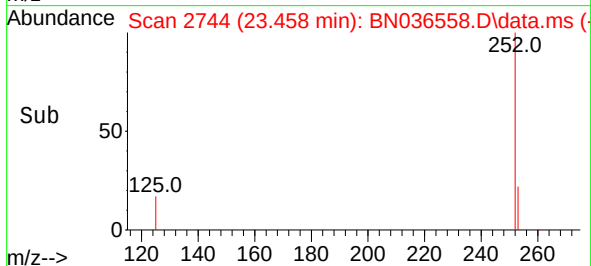
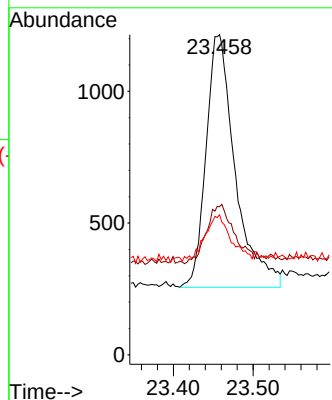
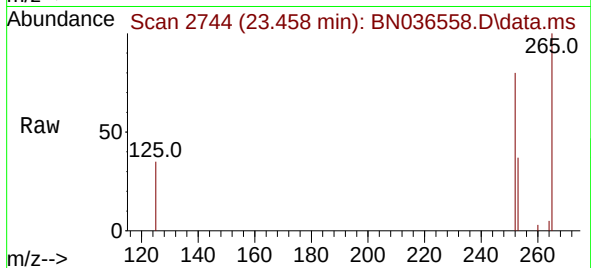
Tgt Ion:252 Resp: 2443

Ion Ratio Lower Upper

252 100

253 46.3 27.8 41.8#

125 43.7 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.175 ng

RT: 25.858 min Scan# 3565

Delta R.T. 0.003 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

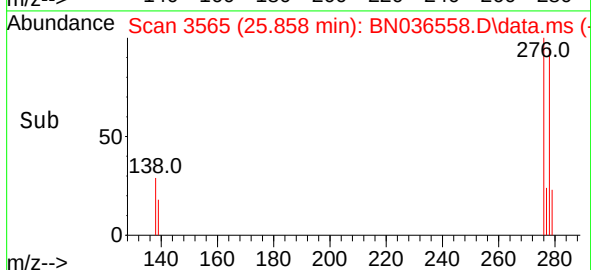
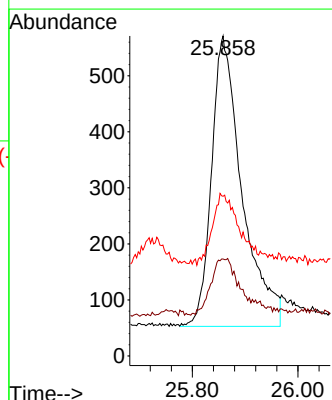
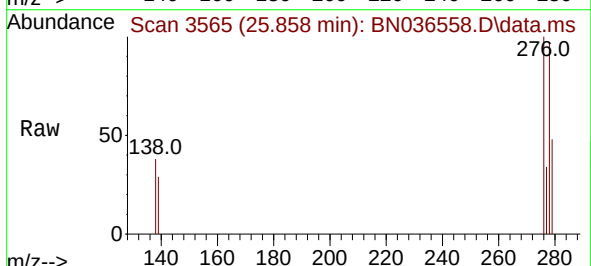
Tgt Ion:278 Resp: 2080

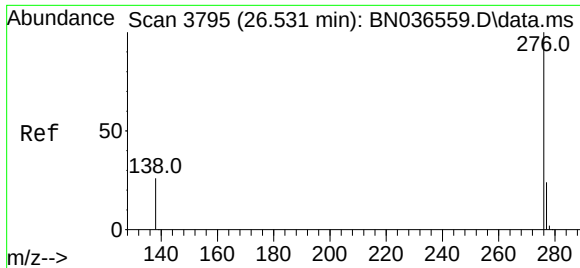
Ion Ratio Lower Upper

278 100

139 30.3 20.8 31.2

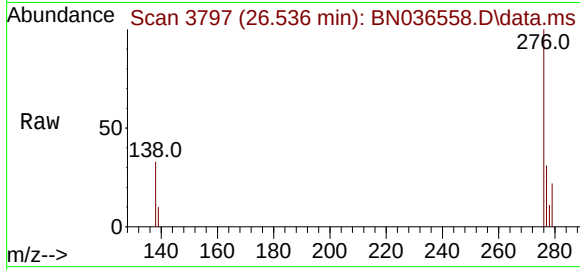
279 49.9 28.8 43.2#



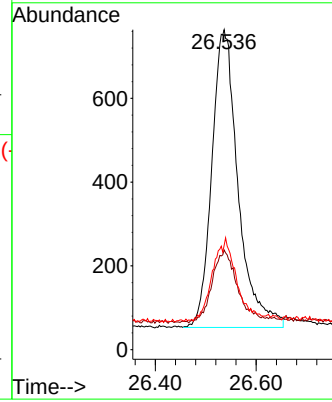
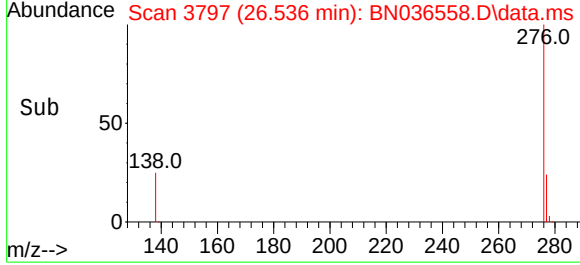


#41
 Benzo(g,h,i)perylene
 Concen: 0.189 ng
 RT: 26.536 min Scan# 31
 Delta R.T. 0.006 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2



Tgt Ion:	276	Resp:	2573
Ion	Ratio	Lower	Upper
276	100		
277	31.2	22.2	33.4
138	32.6	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
 Data File : BN036665.D
 Acq On : 17 Mar 2025 18:31
 Operator : RC/JU
 Sample : PB167159BS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB167159BS

Quant Time: Mar 18 00:55:04 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

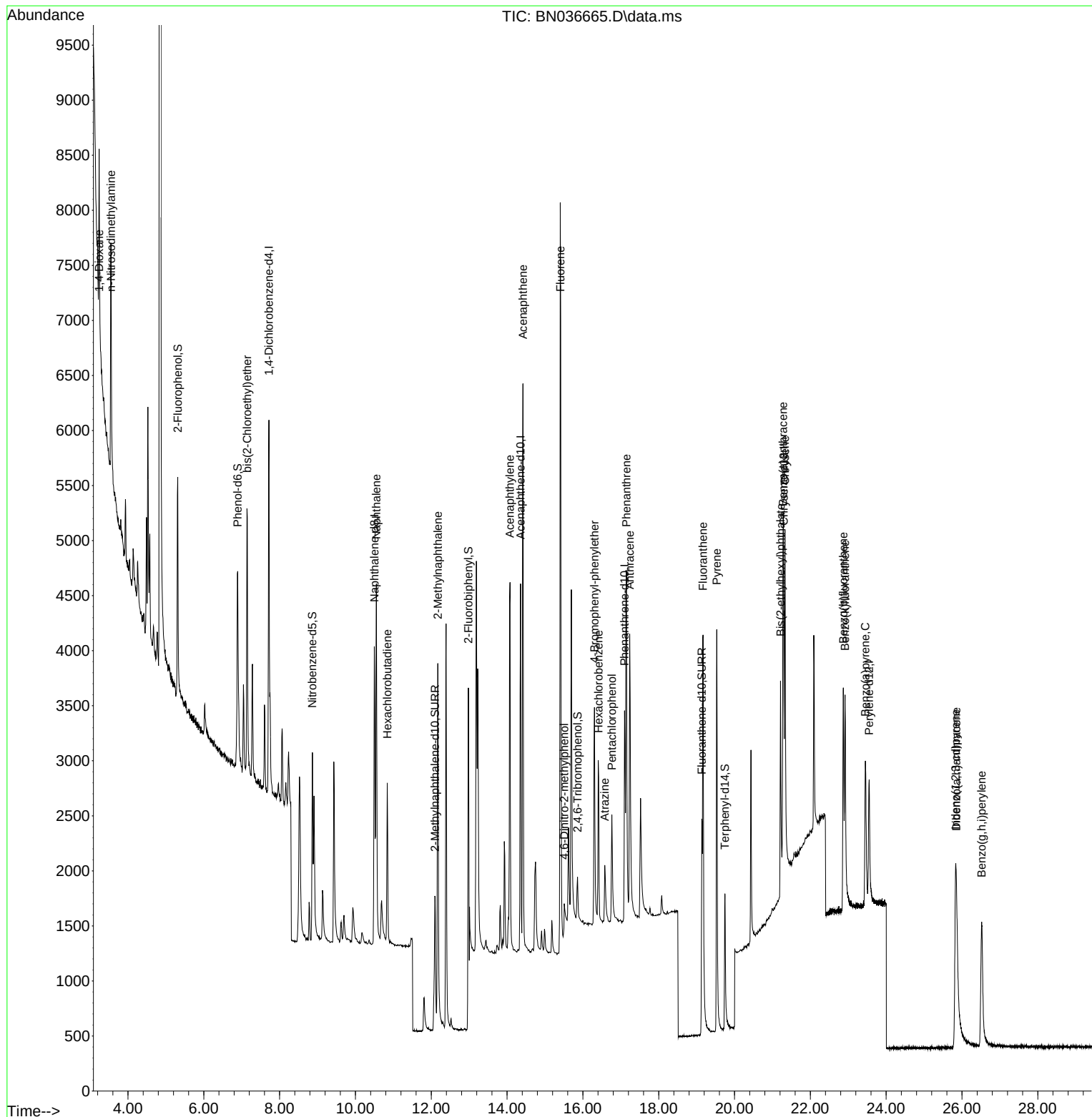
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1650	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	3863	0.400	ng	-0.01
13) Acenaphthene-d10	14.356	164	1951	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	3290	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	1972	0.400	ng	0.00
35) Perylene-d12	23.552	264	1878	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1561	0.406	ng	0.00
5) Phenol-d6	6.894	99	1791	0.377	ng	0.00
8) Nitrobenzene-d5	8.865	82	1547	0.368	ng	-0.01
11) 2-Methylnaphthalene-d10	12.096	152	2789	0.485	ng	-0.01
14) 2,4,6-Tribromophenol	15.858	330	287	0.324	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	4691	0.413	ng	0.00
27) Fluoranthene-d10	19.137	212	2860	0.339	ng	0.00
31) Terphenyl-d14	19.745	244	1935	0.410	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	682	0.373	ng	# 23
3) n-Nitrosodimethylamine	3.550	42	1682	0.454	ng	93
6) bis(2-Chloroethyl)ether	7.147	93	1884	0.384	ng	97
9) Naphthalene	10.552	128	4632	0.408	ng	99
10) Hexachlorobutadiene	10.840	225	1141	0.427	ng	# 98
12) 2-Methylnaphthalene	12.172	142	2867	0.397	ng	98
16) Acenaphthylene	14.078	152	4194	0.456	ng	99
17) Acenaphthene	14.420	154	2595	0.431	ng	99
18) Fluorene	15.403	166	3260	0.400	ng	99
20) 4,6-Dinitro-2-methylph...	15.510	198	204	0.389	ng	91
21) 4-Bromophenyl-phenylether	16.305	248	921	0.447	ng	89
22) Hexachlorobenzene	16.416	284	1125	0.452	ng	93
23) Atrazine	16.578	200	729	0.441	ng	# 89
24) Pentachlorophenol	16.764	266	690	0.608	ng	99
25) Phenanthrene	17.149	178	4250	0.431	ng	100
26) Anthracene	17.236	178	3990	0.448	ng	99
28) Fluoranthene	19.169	202	4249	0.383	ng	98
30) Pyrene	19.531	202	4301	0.446	ng	99
32) Benzo(a)anthracene	21.277	228	2770	0.404	ng	98
33) Chrysene	21.331	228	3606	0.481	ng	98
34) Bis(2-ethylhexyl)phtha...	21.214	149	1852	0.379	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.829	276	3428	0.506	ng	# 91
37) Benzo(b)fluoranthene	22.870	252	2702	0.395	ng	96
38) Benzo(k)fluoranthene	22.914	252	3322	0.463	ng	96
39) Benzo(a)pyrene	23.452	252	2835	0.493	ng	96
40) Dibenzo(a,h)anthracene	25.850	278	2578	0.489	ng	93
41) Benzo(g,h,i)perylene	26.519	276	2857	0.473	ng	97

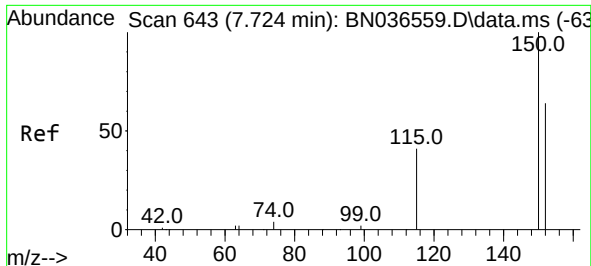
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036665.D
Acq On : 17 Mar 2025 18:31
Operator : RC/JU
Sample : PB167159BS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167159BS

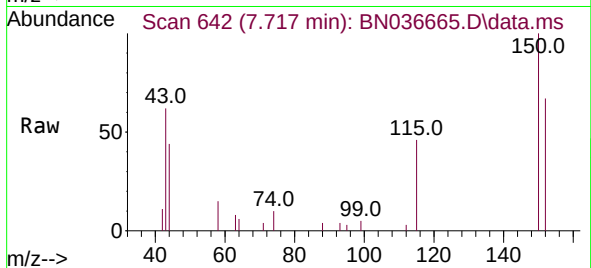
Quant Time: Mar 18 00:55:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



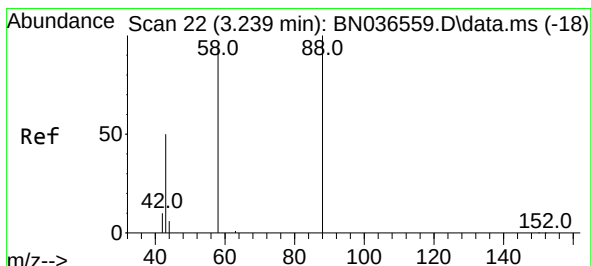
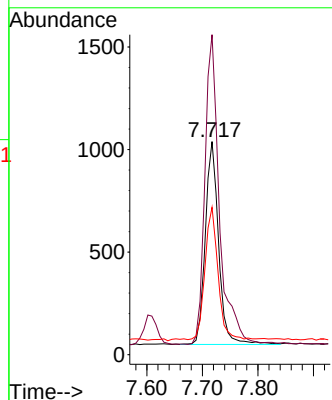
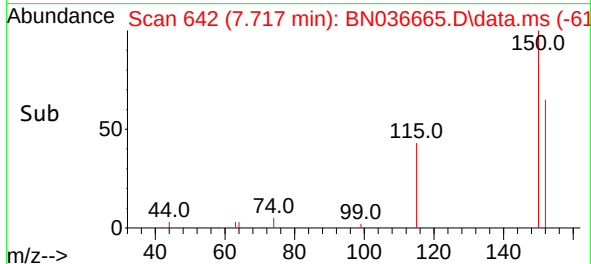


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

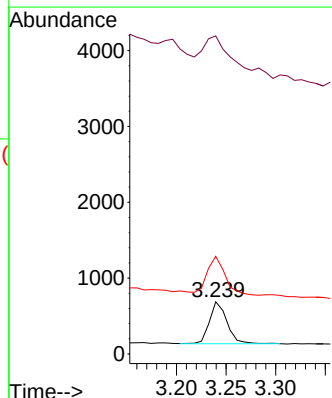
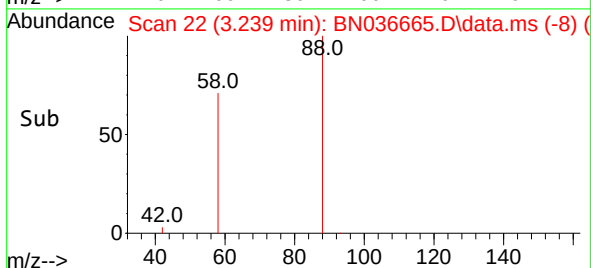
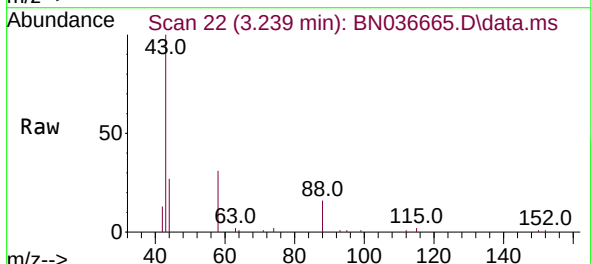


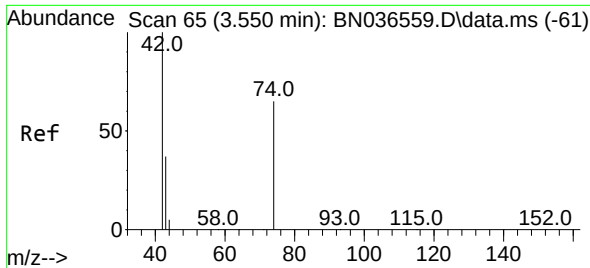
Tgt Ion:152 Resp: 1650
Ion Ratio Lower Upper
152 100
150 150.1 123.7 185.5
115 69.1 54.3 81.5



#2
1,4-Dioxane
Concen: 0.373 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion: 88 Resp: 682
Ion Ratio Lower Upper
88 100
43 177.0 37.8 56.8#
58 94.6 67.4 101.2

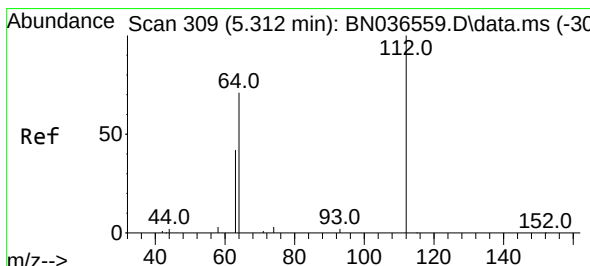
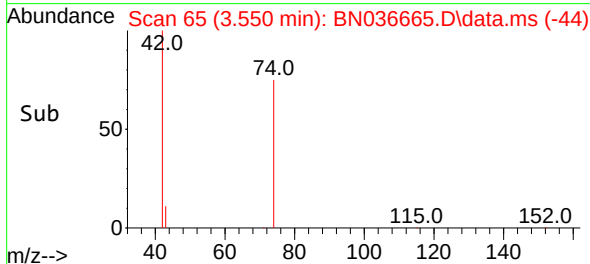
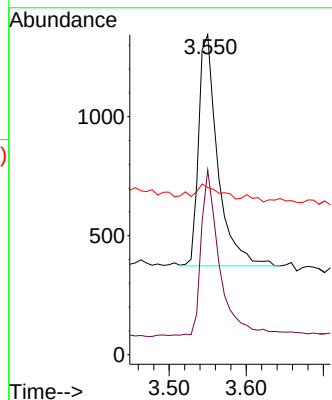
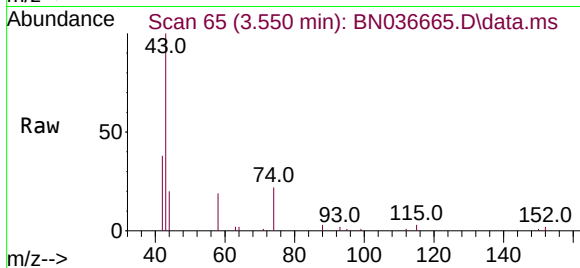




#3
 n-Nitrosodimethylamine
 Concen: 0.454 ng
 RT: 3.550 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: BN036665.D
 Acq: 17 Mar 2025 18:31

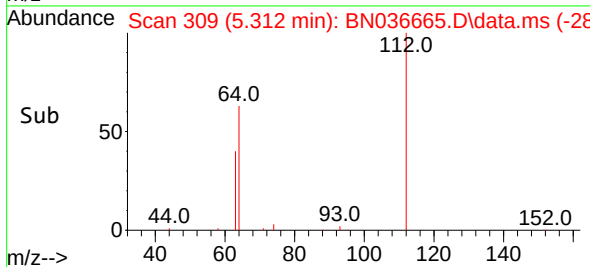
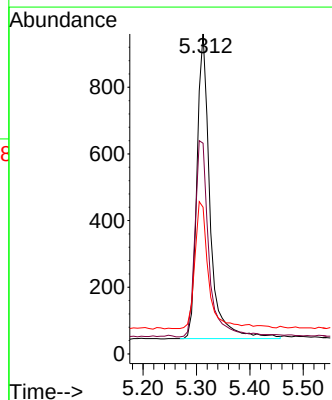
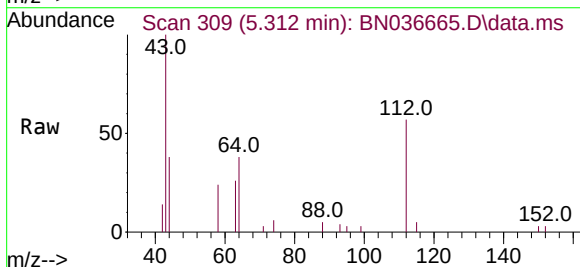
Instrument :
 BNA_N
 ClientSampleId :
 PB167159BS

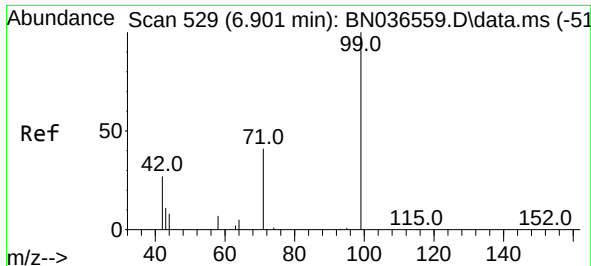
Tgt Ion: 42 Resp: 1682
 Ion Ratio Lower Upper
 42 100
 74 69.5 60.6 90.8
 44 7.4 6.3 9.5



#4
 2-Fluorophenol
 Concen: 0.406 ng
 RT: 5.312 min Scan# 309
 Delta R.T. 0.000 min
 Lab File: BN036665.D
 Acq: 17 Mar 2025 18:31

Tgt Ion: 112 Resp: 1561
 Ion Ratio Lower Upper
 112 100
 64 68.9 53.1 79.7
 63 42.5 31.8 47.8

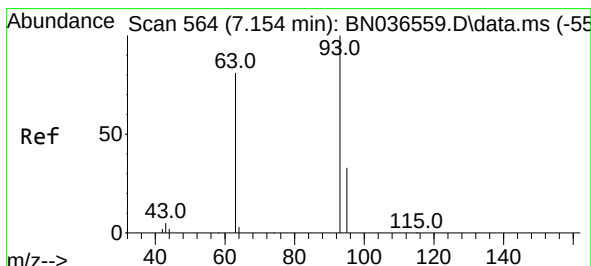
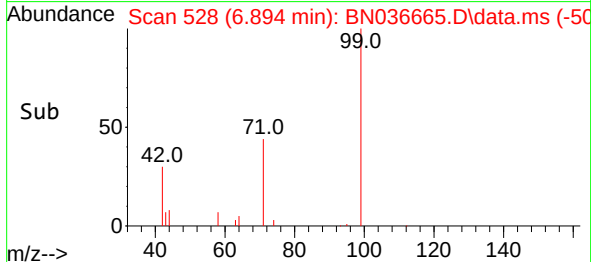
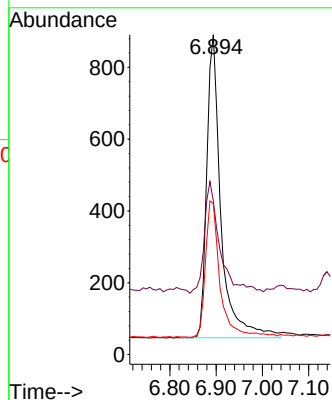
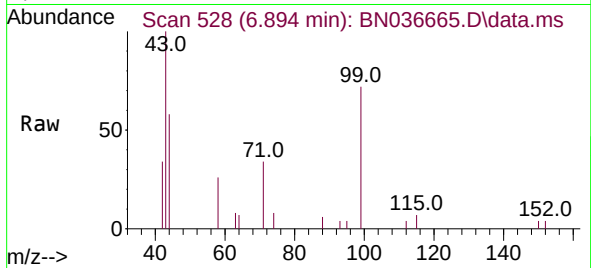




#5
Phenol-d6
Concen: 0.377 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

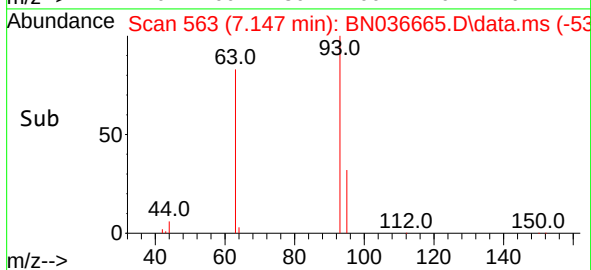
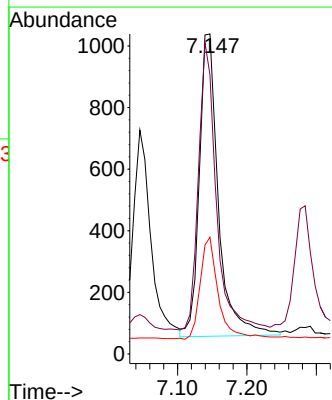
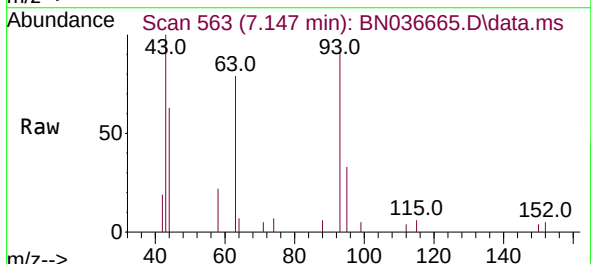
Instrument :
BNA_N
ClientSampleId :
PB167159BS

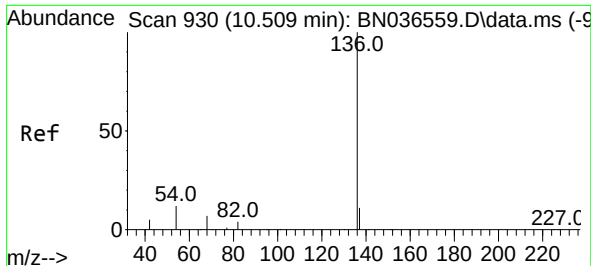
Tgt Ion: 99 Resp: 1791
Ion Ratio Lower Upper
99 100
42 40.4 26.5 39.7#
71 46.6 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.384 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion: 93 Resp: 1884
Ion Ratio Lower Upper
93 100
63 88.0 67.7 101.5
95 31.6 25.6 38.4

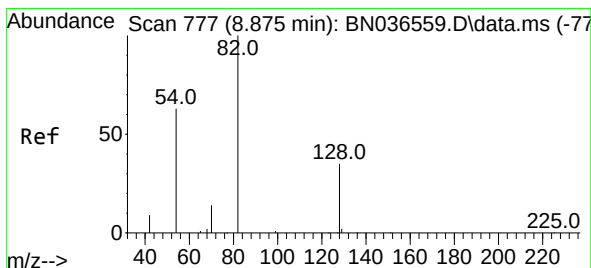
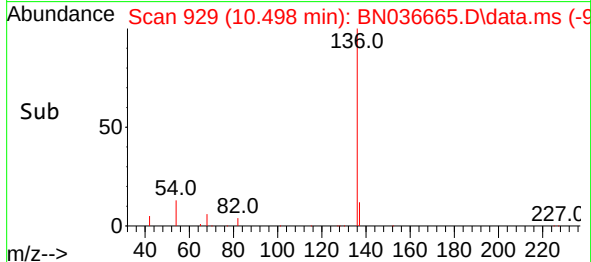
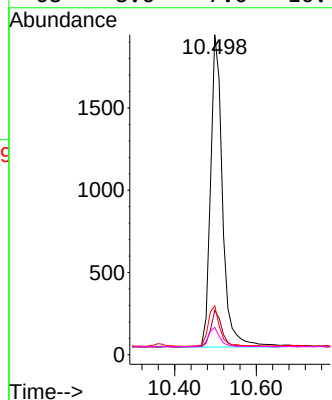
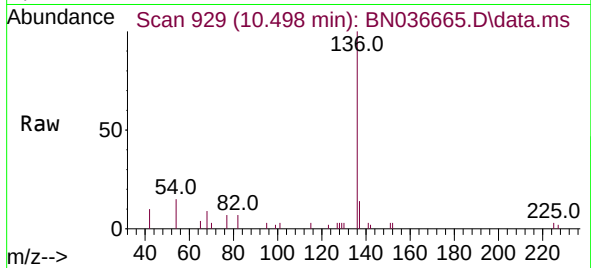




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

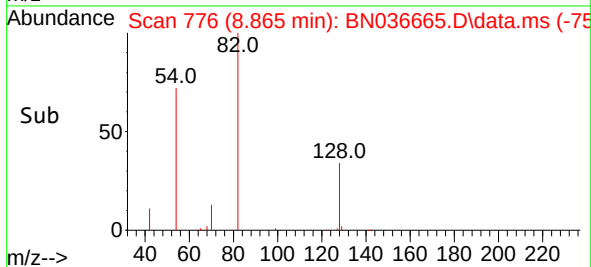
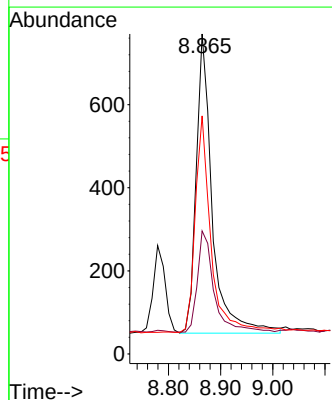
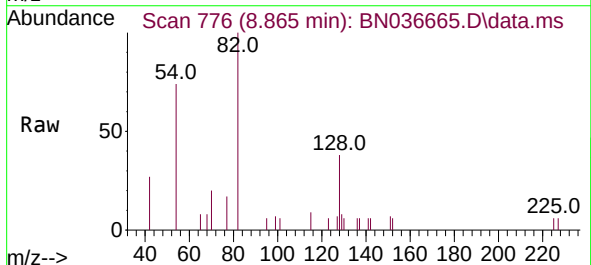
Instrument :
BNA_N
ClientSampleId :
PB167159BS

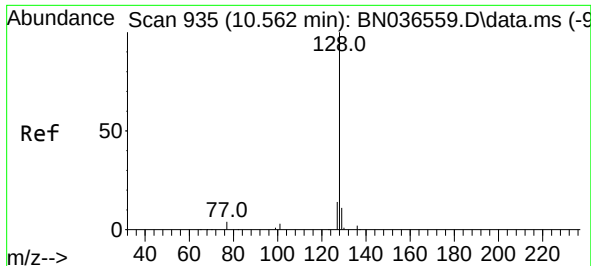
Tgt Ion:	136	Resp:	3863
Ion	Ratio	Lower	Upper
136	100		
137	13.8	10.3	15.5
54	15.3	11.5	17.3
68	8.6	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.368 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:	82	Resp:	1547
Ion	Ratio	Lower	Upper
82	100		
128	38.4	30.6	45.8
54	74.4	52.2	78.4

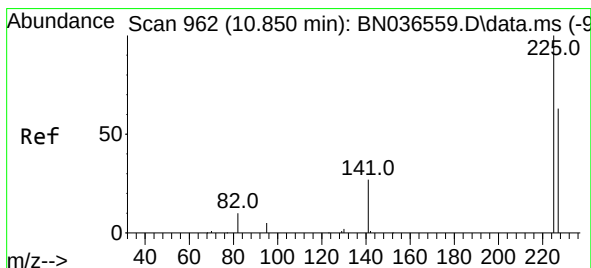
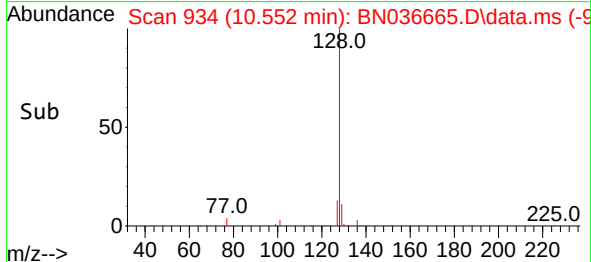
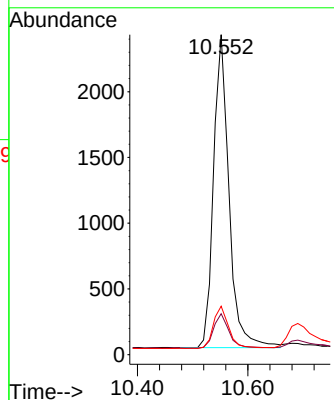
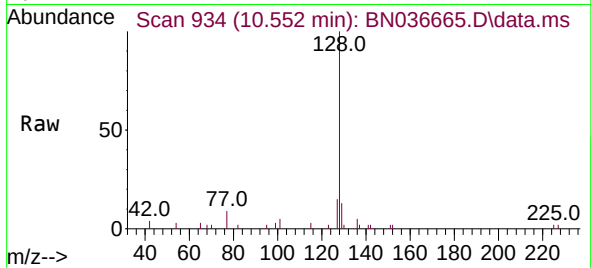




#9
Naphthalene
Concen: 0.408 ng
RT: 10.552 min Scan# 91
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

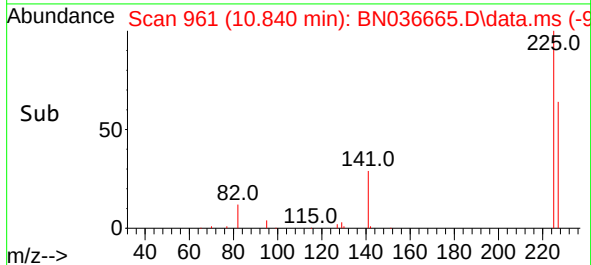
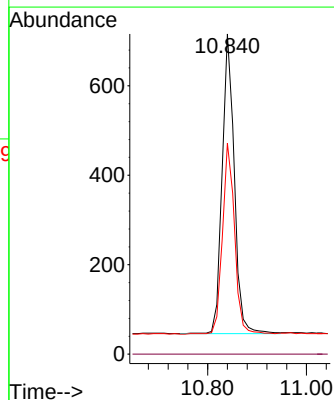
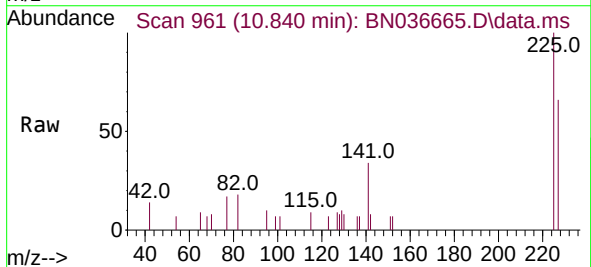
Instrument :
BNA_N
ClientSampleId :
PB167159BS

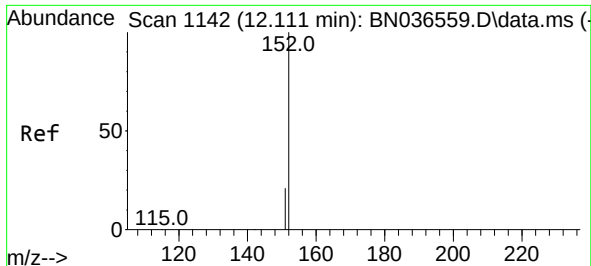
Tgt Ion:	128	Resp:	4632
Ion	Ratio	Lower	Upper
128	100		
129	12.8	9.8	14.6
127	15.2	11.8	17.8



#10
Hexachlorobutadiene
Concen: 0.427 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:	225	Resp:	1141
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	51.8	77.8

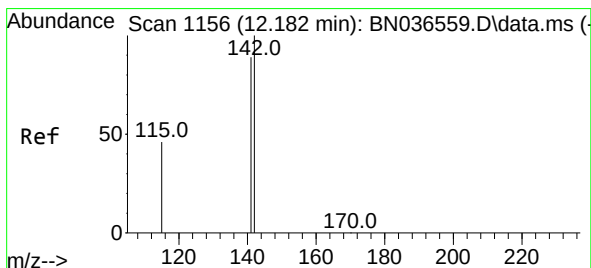
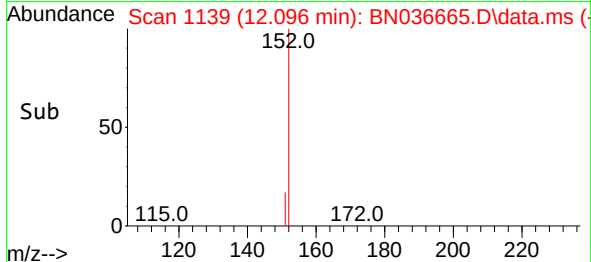
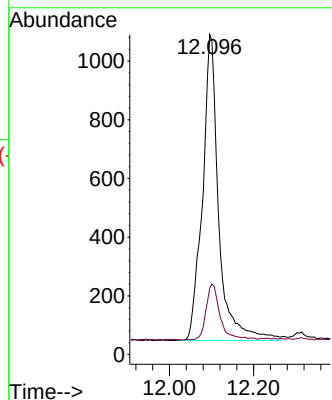
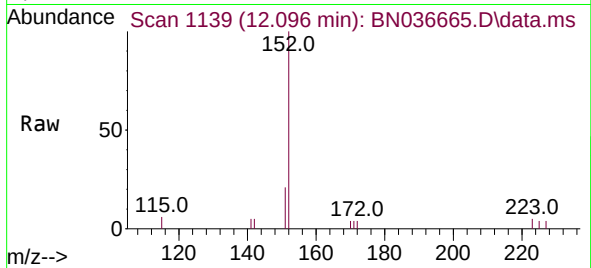




#11
2-Methylnaphthalene-d10
Concen: 0.485 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

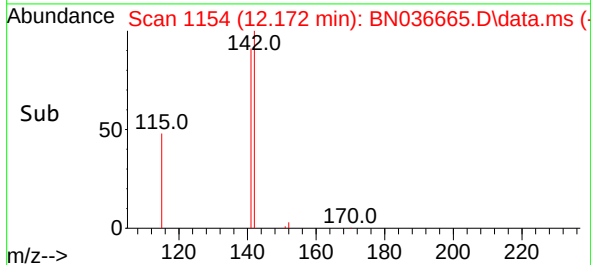
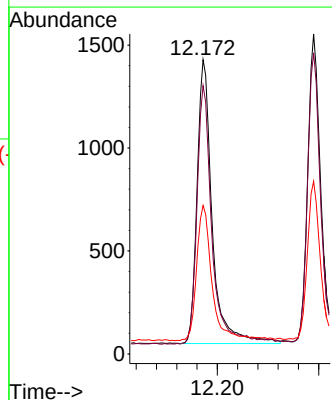
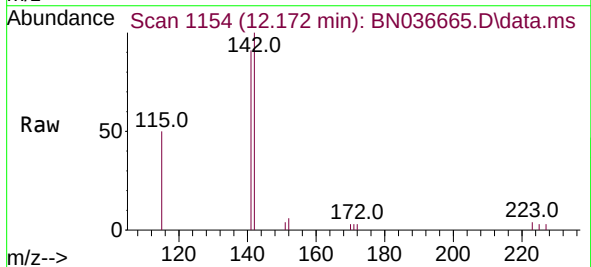
Instrument :
BNA_N
ClientSampleId :
PB167159BS

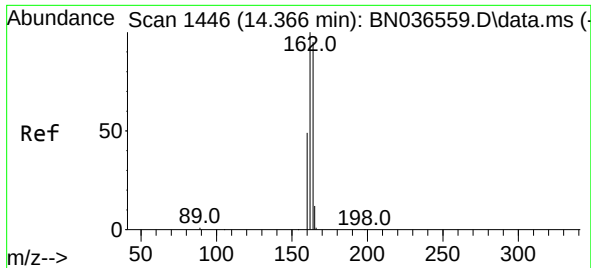
Tgt Ion:152 Resp: 2789
Ion Ratio Lower Upper
152 100
151 15.3 17.0 25.6#



#12
2-Methylnaphthalene
Concen: 0.397 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:142 Resp: 2867
Ion Ratio Lower Upper
142 100
141 91.2 71.7 107.5
115 50.5 38.3 57.5

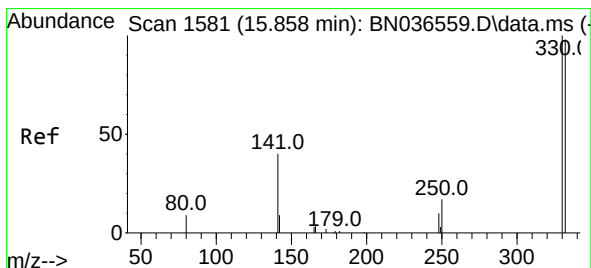
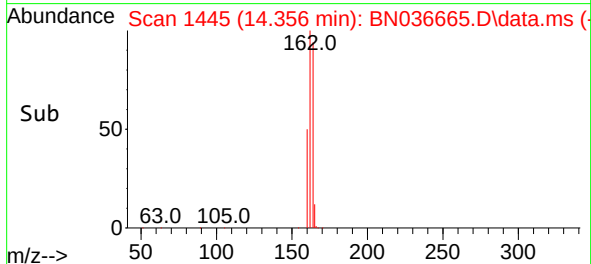
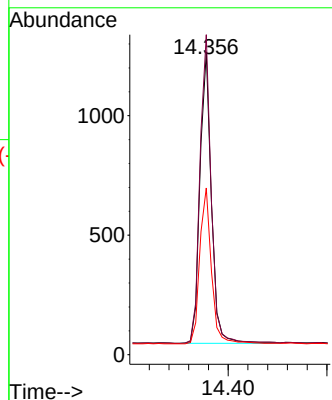
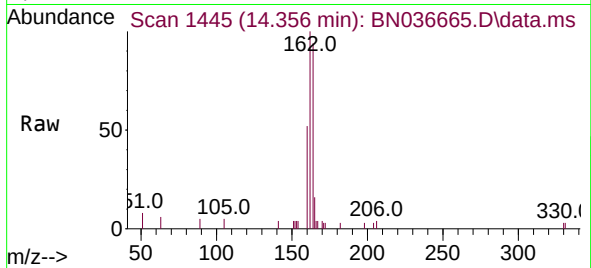




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.356 min Scan# 1445
 Delta R.T. -0.010 min
 Lab File: BN036665.D
 Acq: 17 Mar 2025 18:31

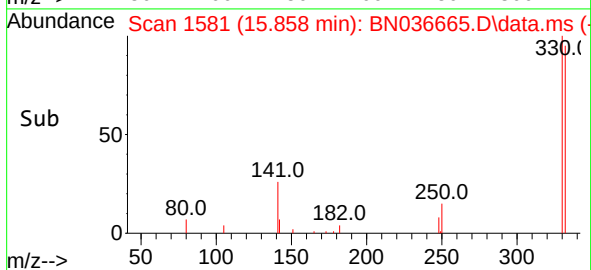
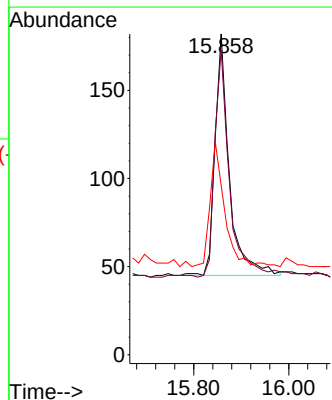
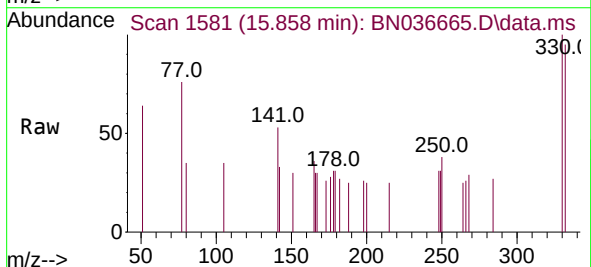
Instrument :
 BNA_N
 ClientSampleId :
 PB167159BS

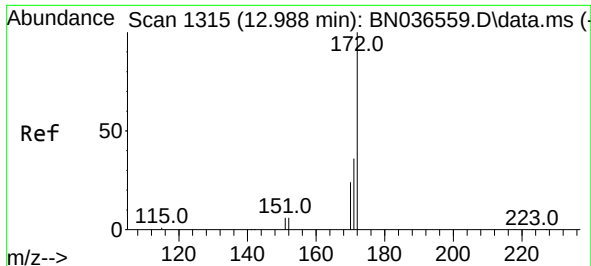
Tgt Ion:164	Resp:	1951
Ion Ratio	Lower	Upper
164	100	
162	105.8	84.2 126.2
160	55.2	42.2 63.2



#14
 2,4,6-Tribromophenol
 Concen: 0.324 ng
 RT: 15.858 min Scan# 1581
 Delta R.T. 0.000 min
 Lab File: BN036665.D
 Acq: 17 Mar 2025 18:31

Tgt Ion:330	Resp:	287
Ion Ratio	Lower	Upper
330	100	
332	97.9	75.2 112.8
141	52.3	43.4 65.2

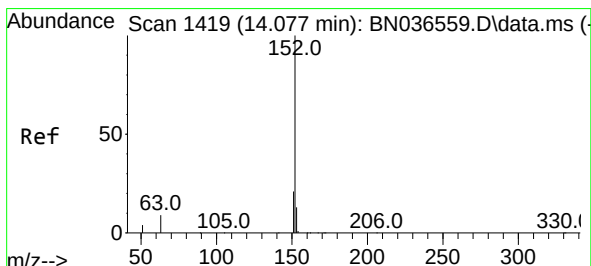
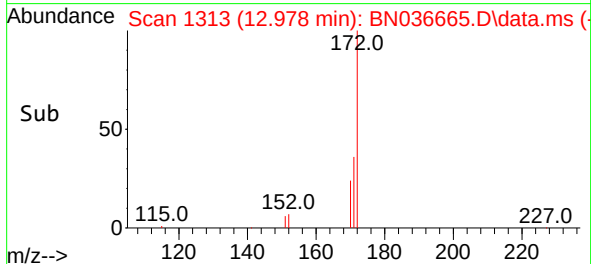
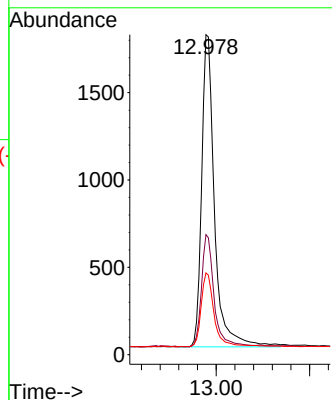
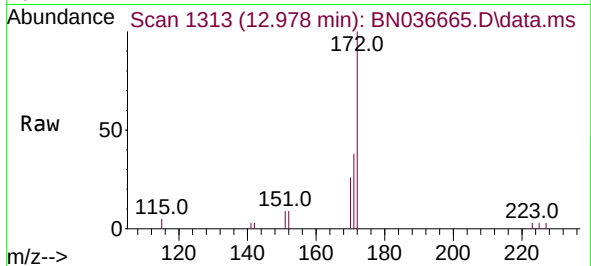




#15
2-Fluorobiphenyl
Concen: 0.413 ng
RT: 12.978 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

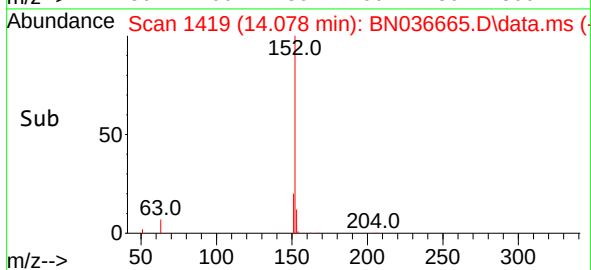
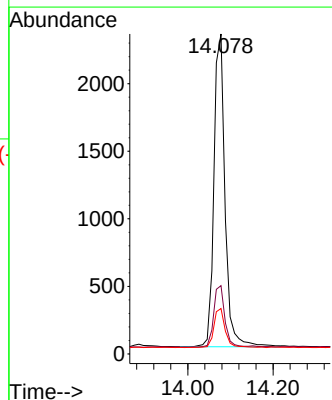
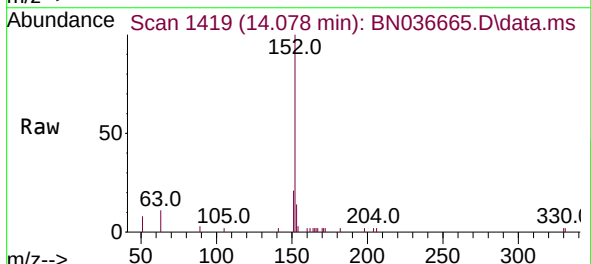
Instrument :
BNA_N
ClientSampleId :
PB167159BS

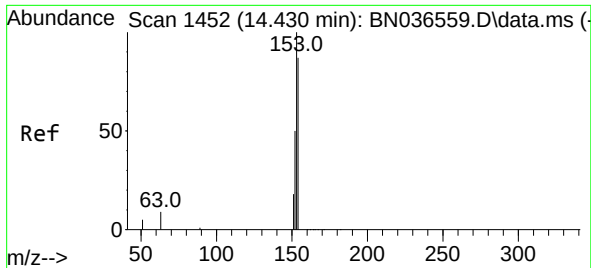
Tgt Ion:172	Resp:	4691
Ion Ratio	Lower	Upper
172	100	
171	37.5	29.5 44.3
170	25.5	20.2 30.4



#16
Acenaphthylene
Concen: 0.456 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:152	Resp:	4194
Ion Ratio	Lower	Upper
152	100	
151	19.7	16.2 24.4
153	12.9	10.6 15.8

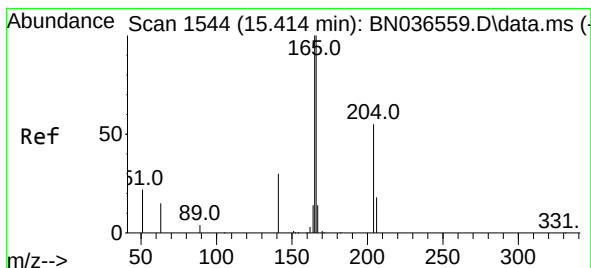
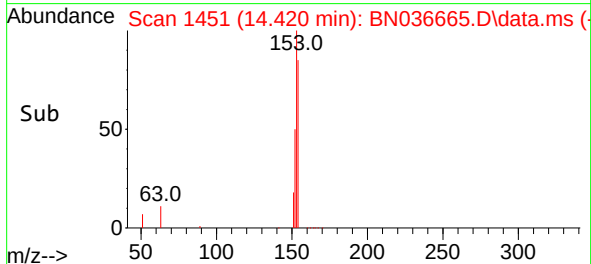
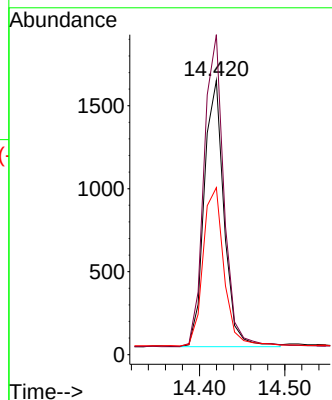
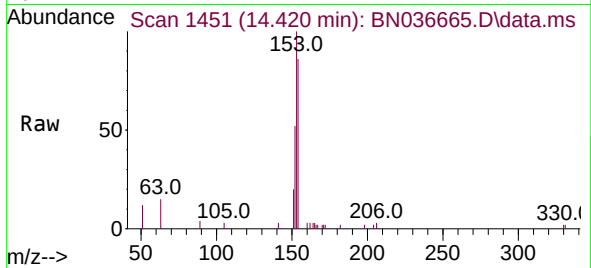




#17
Acenaphthene
Concen: 0.431 ng
RT: 14.420 min Scan# 1452
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

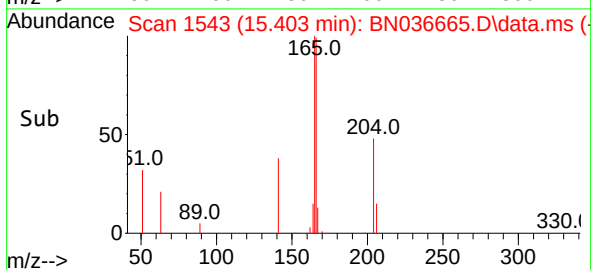
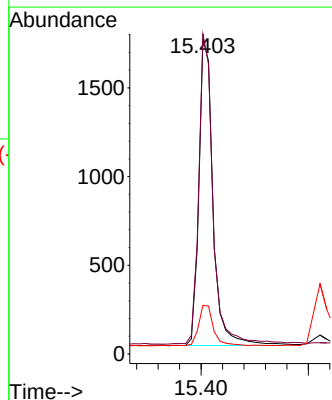
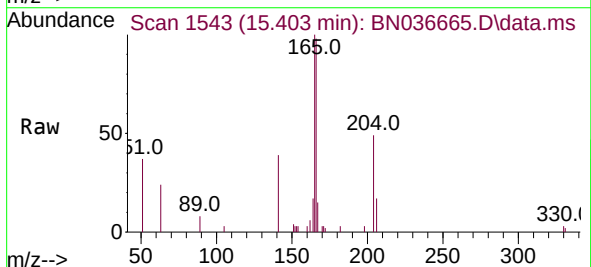
Instrument :
BNA_N
ClientSampleId :
PB167159BS

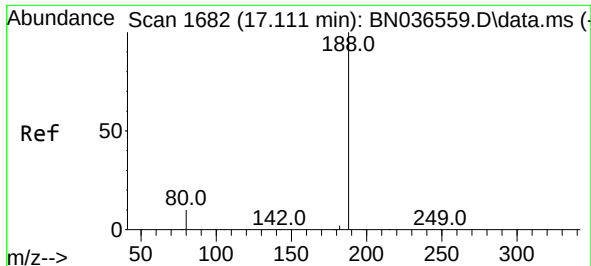
Tgt Ion	Ratio	Lower	Upper
154	100		
153	118.7	94.1	141.1
152	63.4	49.8	74.6



#18
Fluorene
Concen: 0.400 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.8	79.8	119.8
167	14.0	10.6	15.8

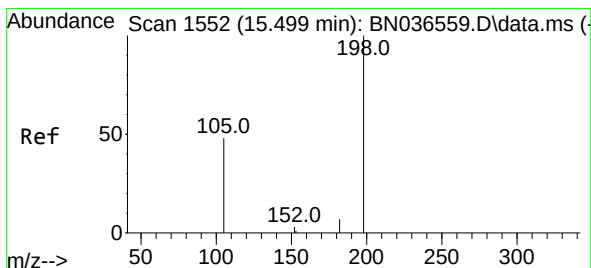
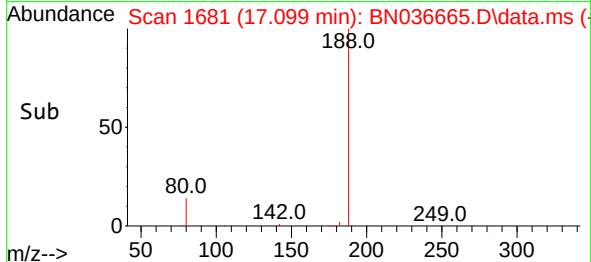
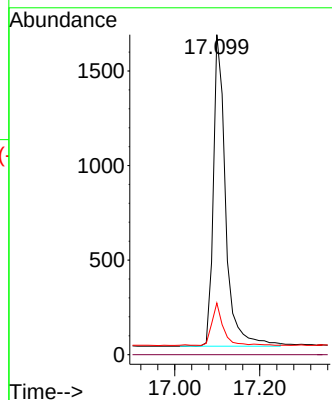
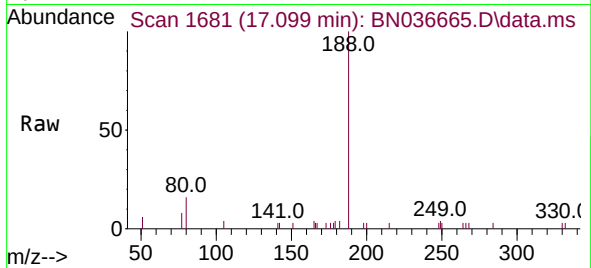




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

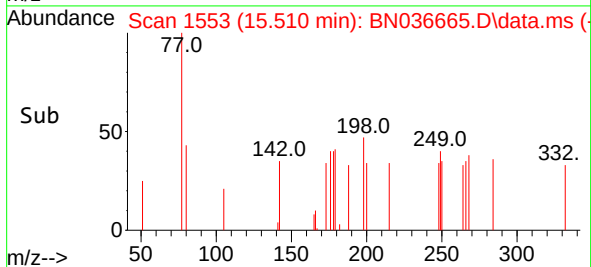
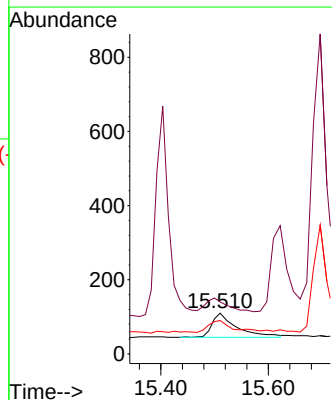
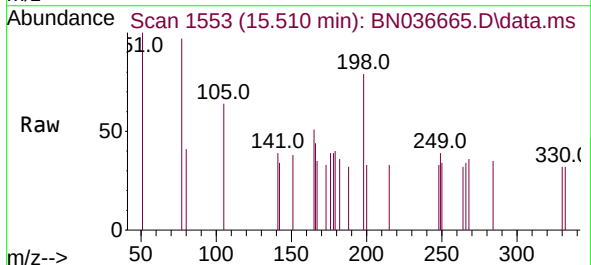
Instrument :
BNA_N
ClientSampleId :
PB167159BS

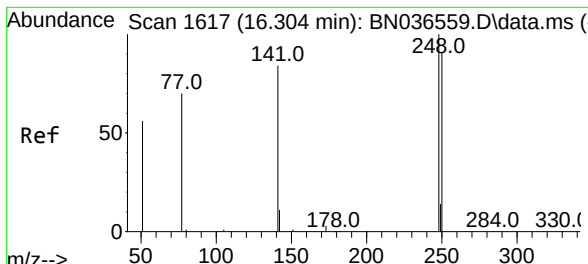
Tgt Ion:188 Resp: 3290
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 16.1 8.8 13.2#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.389 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:198 Resp: 204
Ion Ratio Lower Upper
198 100
51 127.3 107.9 161.9
105 81.8 56.2 84.2

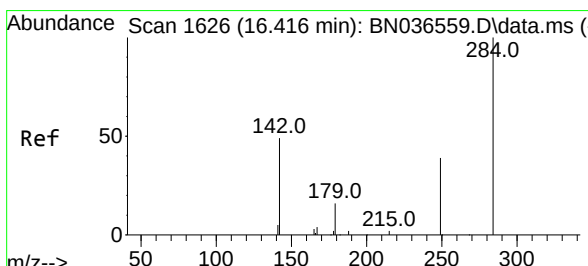
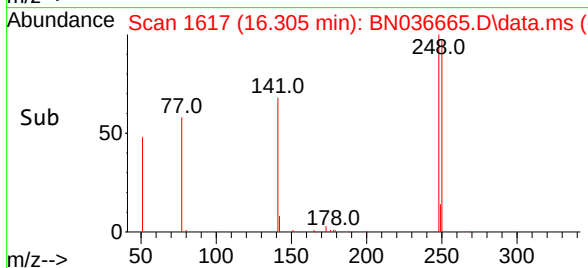
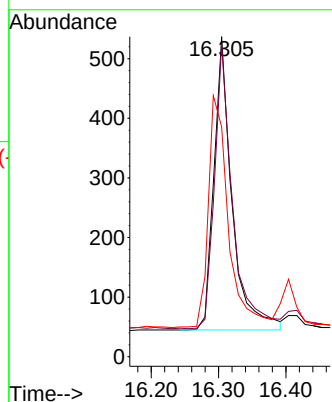
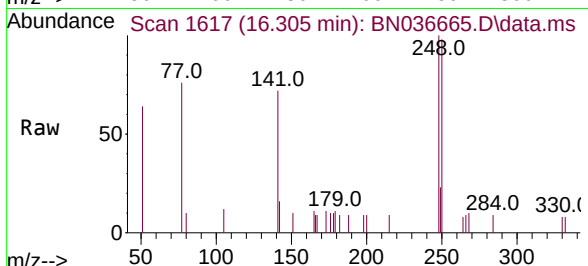




#21
4-Bromophenyl-phenylether
Concen: 0.447 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

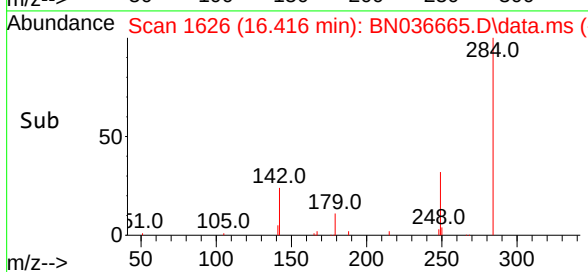
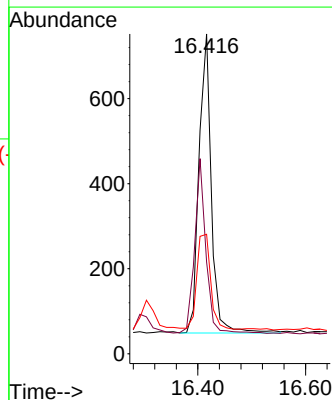
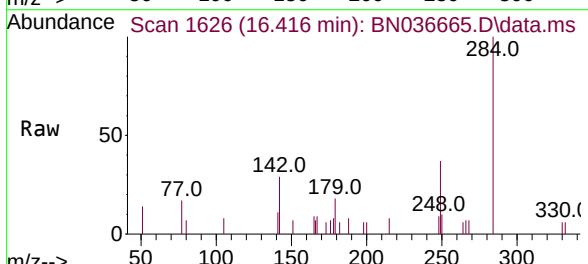
Instrument :
BNA_N
ClientSampleId :
PB167159BS

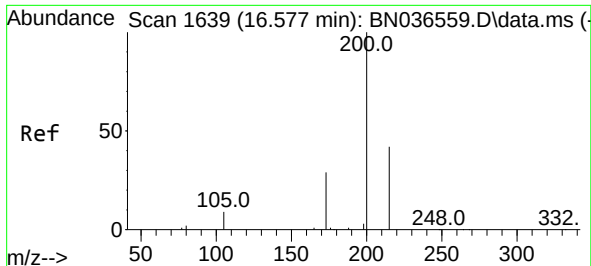
Tgt Ion:	248	Resp:	921
Ion	Ratio	Lower	Upper
248	100		
250	97.8	73.0	109.6
141	71.9	68.6	103.0



#22
Hexachlorobenzene
Concen: 0.452 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:	284	Resp:	1125
Ion	Ratio	Lower	Upper
284	100		
142	53.7	37.0	55.4
249	35.8	28.1	42.1

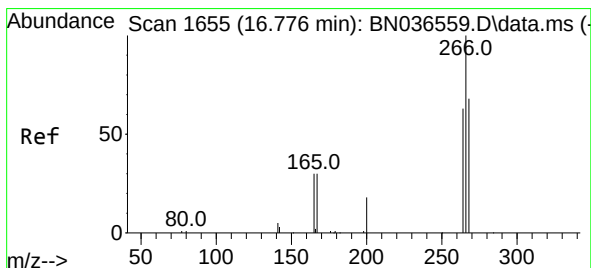
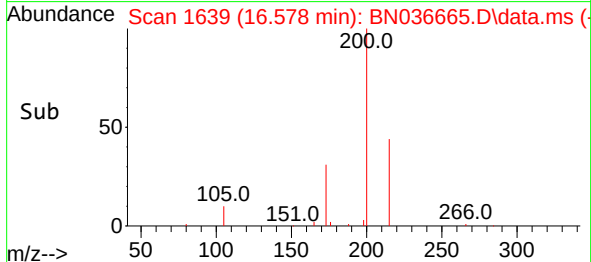
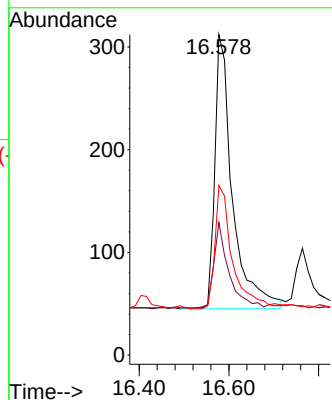
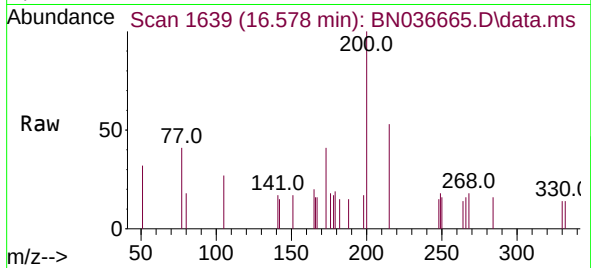




#23
 Atrazine
 Concen: 0.441 ng
 RT: 16.578 min Scan# 1639
 Delta R.T. 0.000 min
 Lab File: BN036665.D
 Acq: 17 Mar 2025 18:31

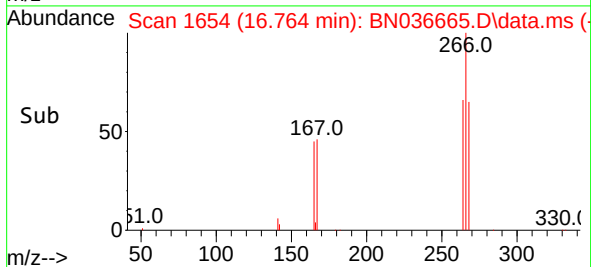
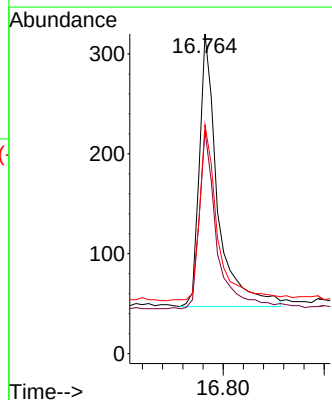
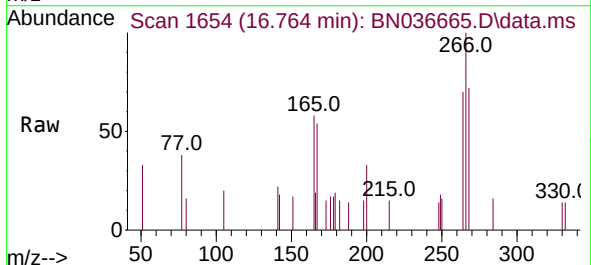
Instrument :
 BNA_N
 ClientSampleId :
 PB167159BS

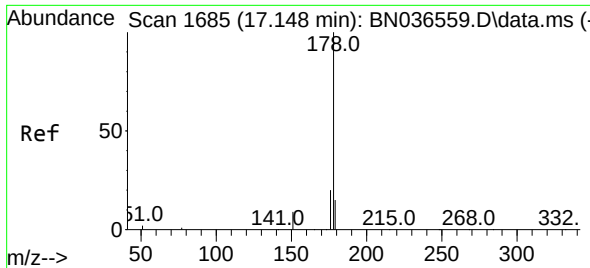
Tgt Ion:200 Resp: 729
 Ion Ratio Lower Upper
 200 100
 173 41.3 27.3 40.9#
 215 52.9 36.8 55.2



#24
 Pentachlorophenol
 Concen: 0.608 ng
 RT: 16.764 min Scan# 1654
 Delta R.T. -0.012 min
 Lab File: BN036665.D
 Acq: 17 Mar 2025 18:31

Tgt Ion:266 Resp: 690
 Ion Ratio Lower Upper
 266 100
 264 61.6 49.6 74.4
 268 62.8 50.9 76.3

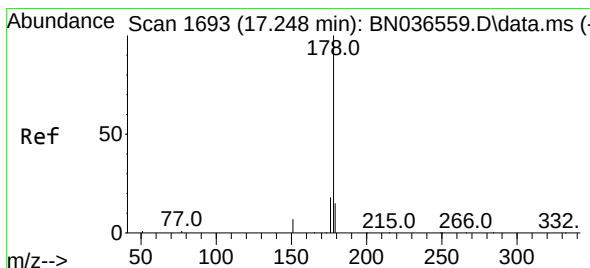
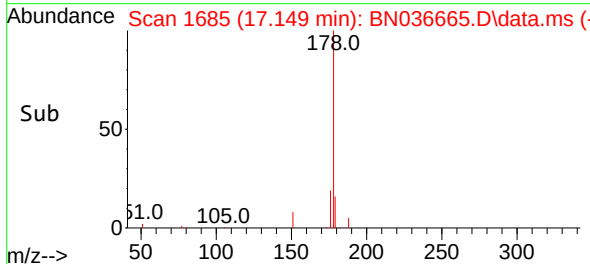
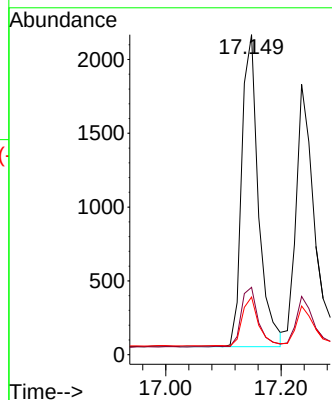
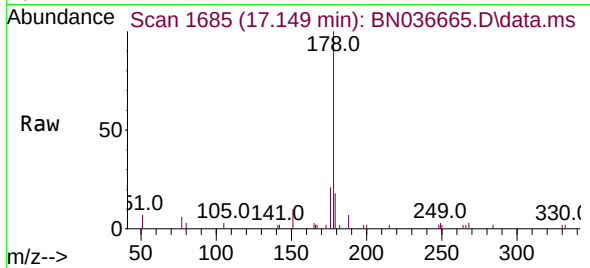




#25
Phenanthrene
Concen: 0.431 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

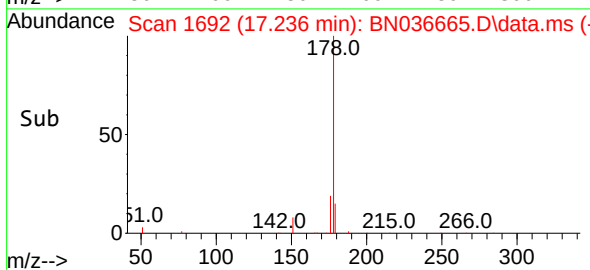
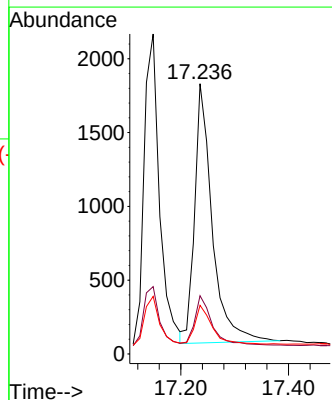
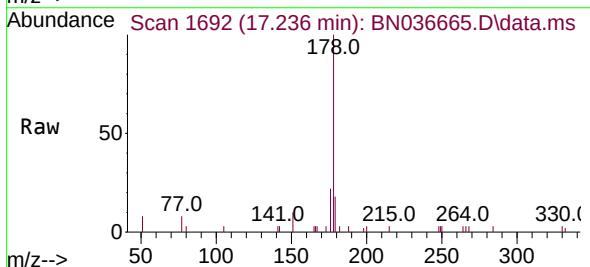
Instrument :
BNA_N
ClientSampleId :
PB167159BS

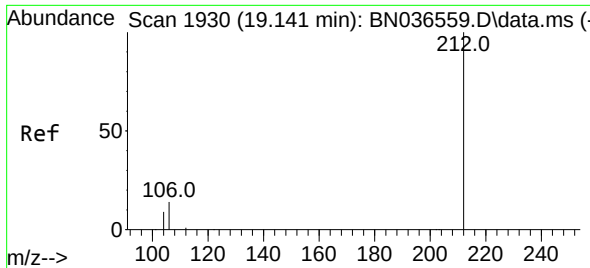
Tgt Ion:178 Resp: 4250
Ion Ratio Lower Upper
178 100
176 19.9 15.9 23.9
179 15.3 12.2 18.4



#26
Anthracene
Concen: 0.448 ng
RT: 17.236 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:178 Resp: 3990
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 14.9 12.6 18.8

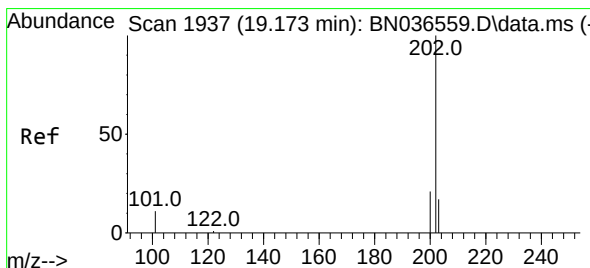
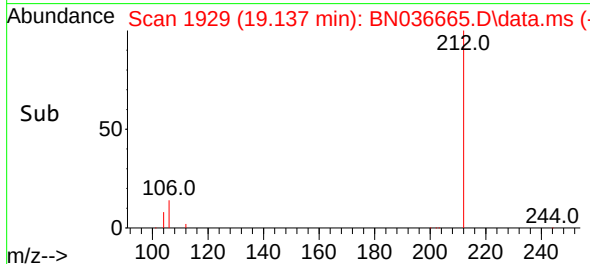
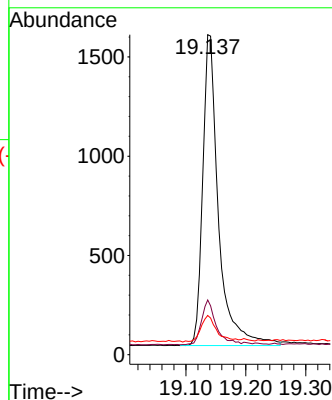
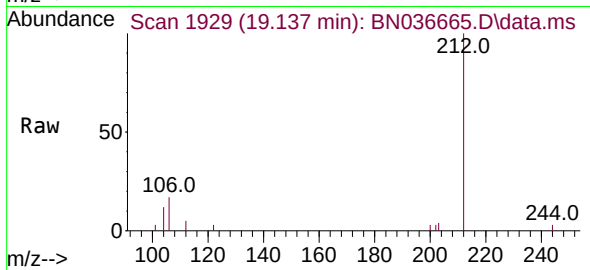




#27
Fluoranthene-d10
Concen: 0.339 ng
RT: 19.137 min Scan# 1936
Delta R.T. -0.004 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

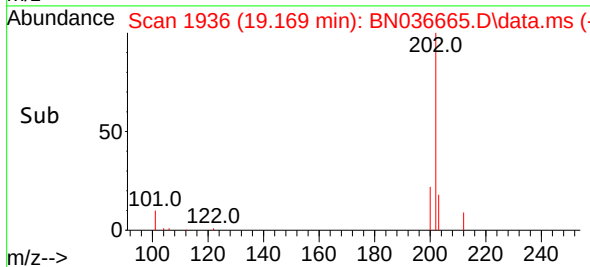
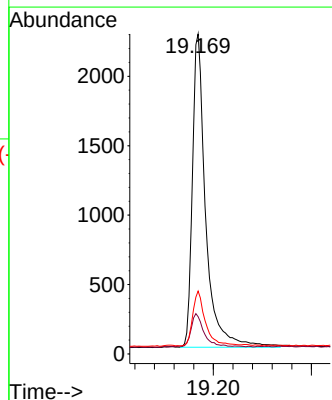
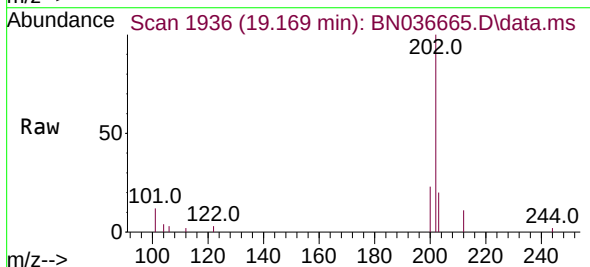
Instrument :
BNA_N
ClientSampleId :
PB167159BS

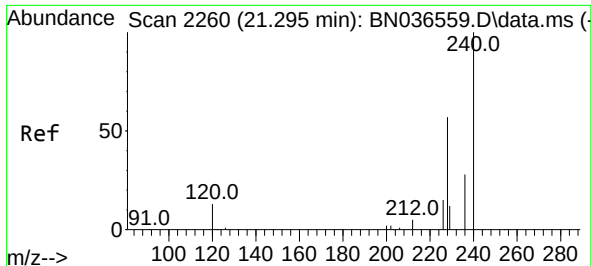
Tgt Ion:212 Resp: 2860
Ion Ratio Lower Upper
212 100
106 13.3 11.8 17.6
104 8.7 7.3 10.9



#28
Fluoranthene
Concen: 0.383 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.004 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:202 Resp: 4249
Ion Ratio Lower Upper
202 100
101 10.3 9.4 14.0
203 16.8 13.5 20.3

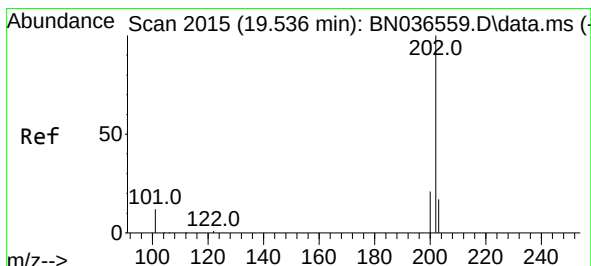
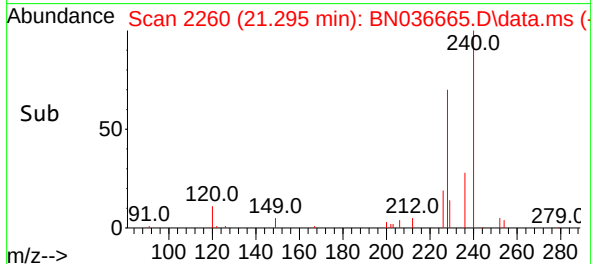
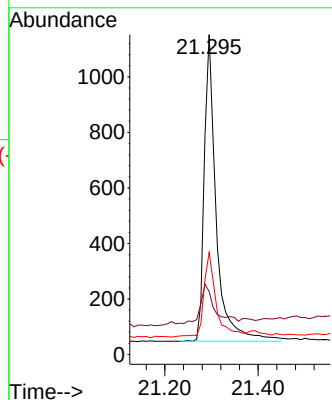
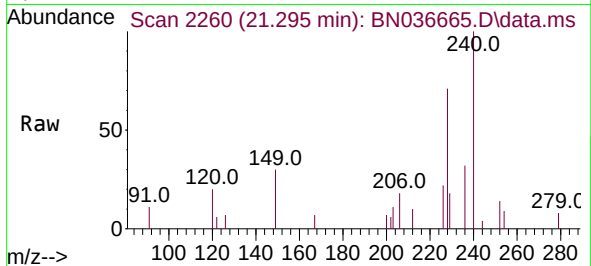




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

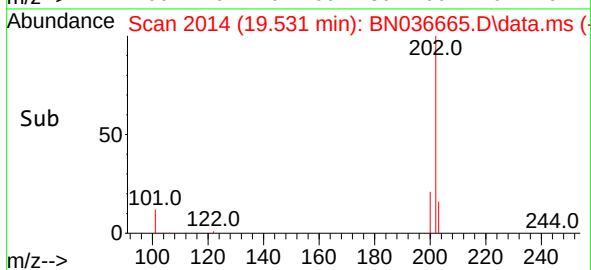
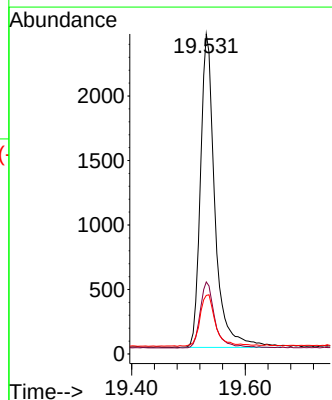
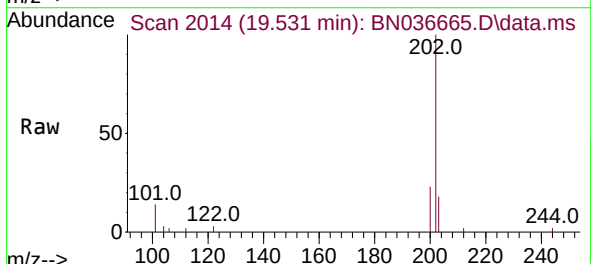
Instrument :
BNA_N
ClientSampleId :
PB167159BS

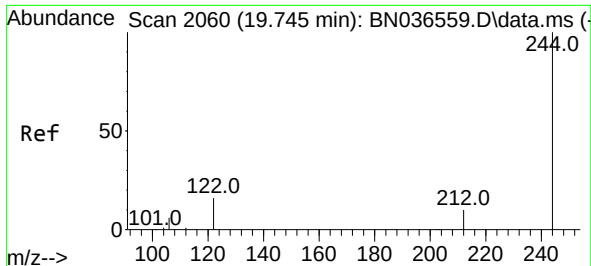
Tgt Ion:240 Resp: 1972
Ion Ratio Lower Upper
240 100
120 19.7 14.6 22.0
236 31.9 24.1 36.1



#30
Pyrene
Concen: 0.446 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.004 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:202 Resp: 4301
Ion Ratio Lower Upper
202 100
200 21.8 17.1 25.7
203 17.3 14.1 21.1

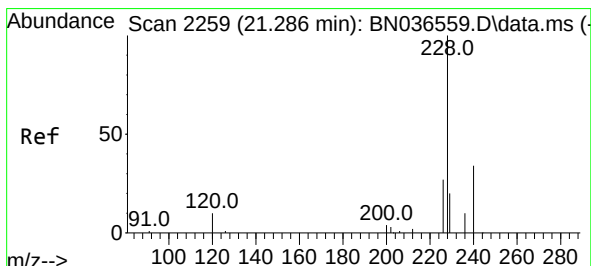
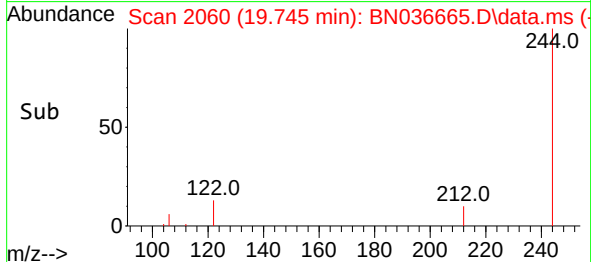
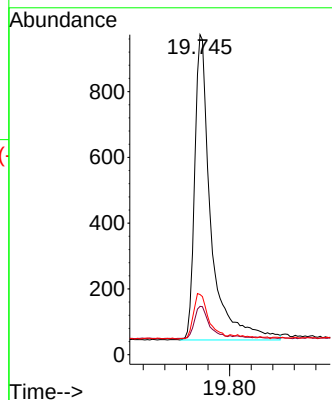
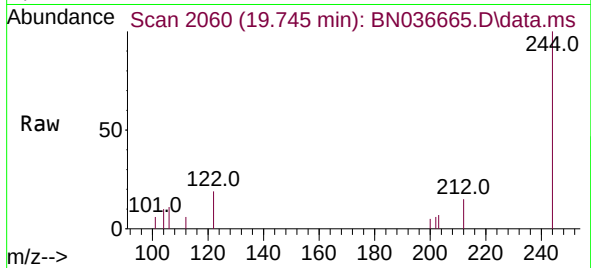




#31
 Terphenyl-d14
 Concen: 0.410 ng
 RT: 19.745 min Scan# 2060
 Delta R.T. 0.000 min
 Lab File: BN036665.D
 Acq: 17 Mar 2025 18:31

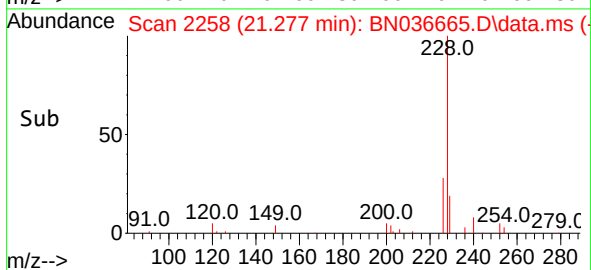
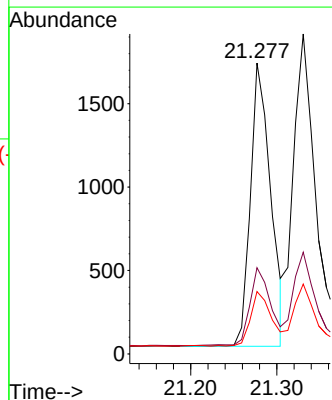
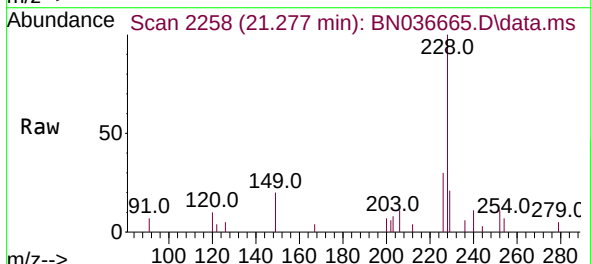
Instrument :
 BNA_N
 ClientSampleId :
 PB167159BS

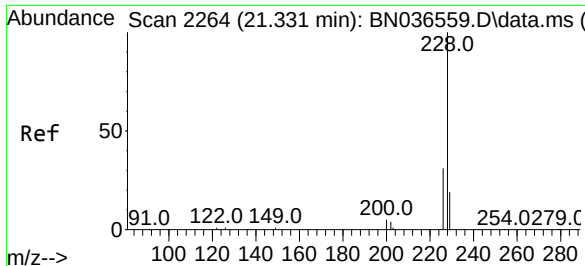
Tgt Ion:244 Resp: 1935
 Ion Ratio Lower Upper
 244 100
 212 15.1 9.6 14.4#
 122 18.8 13.9 20.9



#32
 Benzo(a)anthracene
 Concen: 0.404 ng
 RT: 21.277 min Scan# 2258
 Delta R.T. -0.009 min
 Lab File: BN036665.D
 Acq: 17 Mar 2025 18:31

Tgt Ion:228 Resp: 2770
 Ion Ratio Lower Upper
 228 100
 226 29.7 22.5 33.7
 229 21.5 16.6 25.0

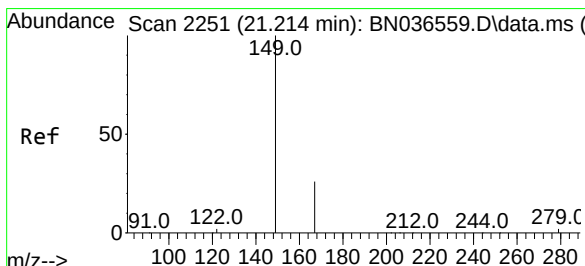
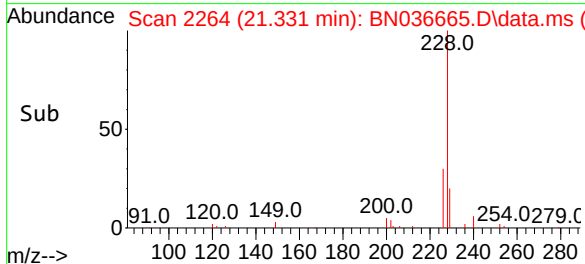
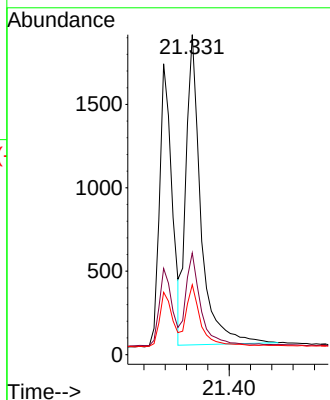
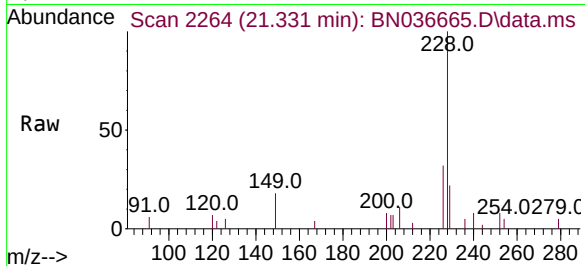




#33
Chrysene
Concen: 0.481 ng
RT: 21.331 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

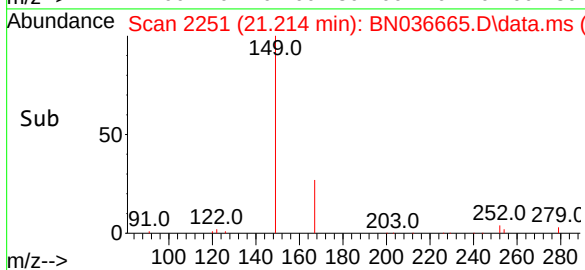
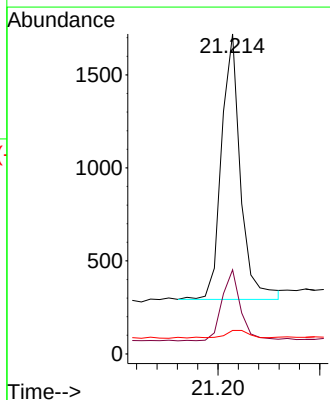
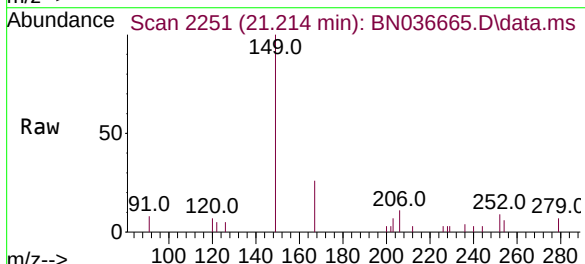
Instrument :
BNA_N
ClientSampleId :
PB167159BS

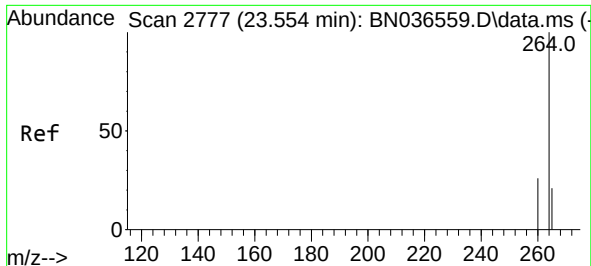
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.8	25.3	37.9
229	21.8	15.8	23.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.379 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

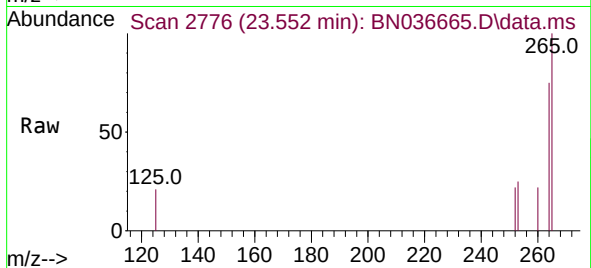
Tgt Ion	Ratio	Lower	Upper
149	100		
167	27.1	20.7	31.1
279	3.4	3.6	5.4



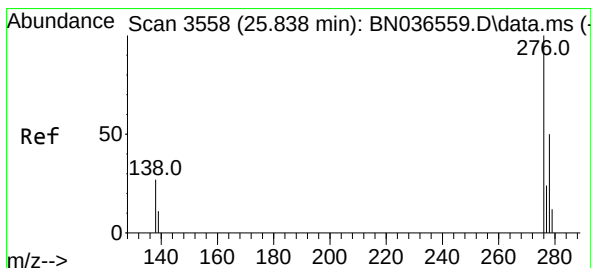
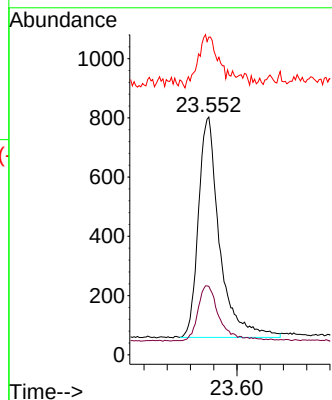
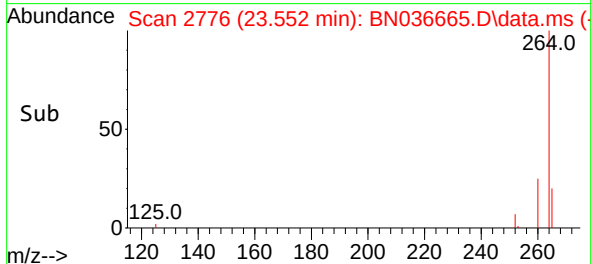


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.552 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

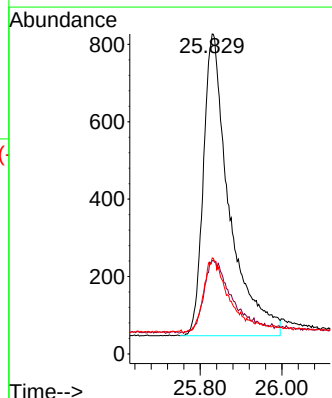
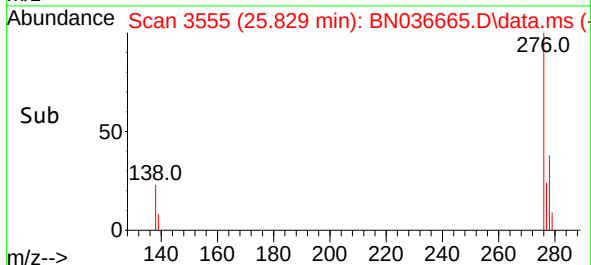
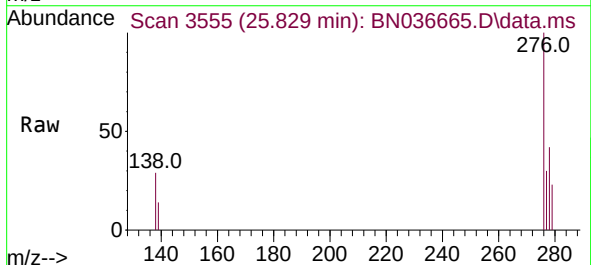


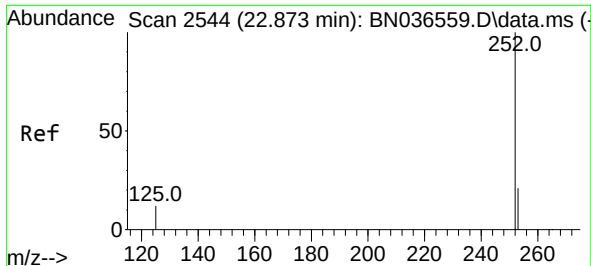
Tgt Ion:264 Resp: 1878
Ion Ratio Lower Upper
264 100
260 28.8 22.6 33.8
265 133.6 88.1 132.1#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.506 ng
RT: 25.829 min Scan# 3555
Delta R.T. -0.009 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:276 Resp: 3428
Ion Ratio Lower Upper
276 100
138 22.7 23.4 35.2#
277 22.8 20.0 30.0

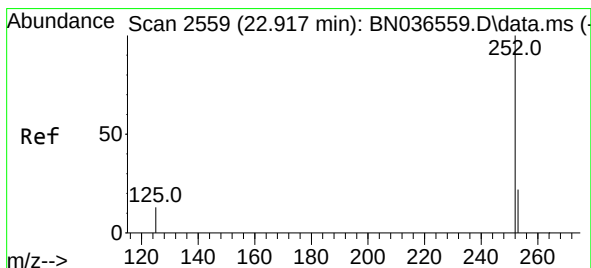
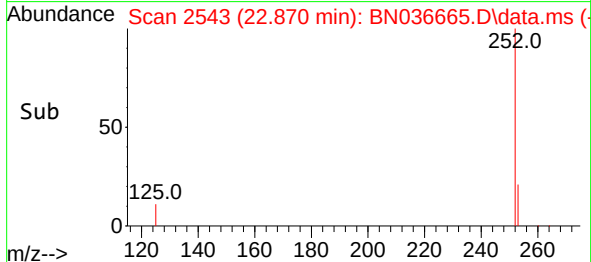
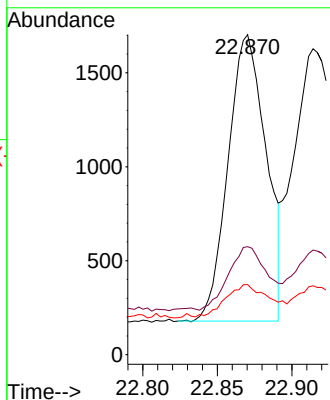
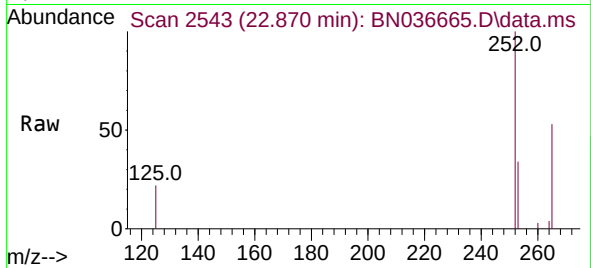




#37
Benzo(b)fluoranthene
Concen: 0.395 ng
RT: 22.870 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

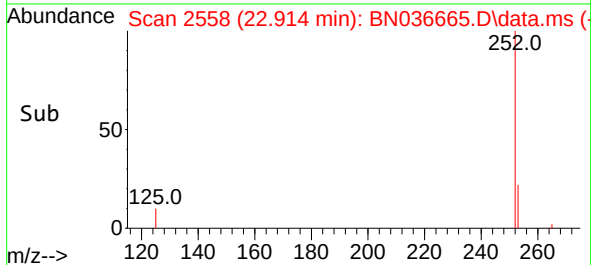
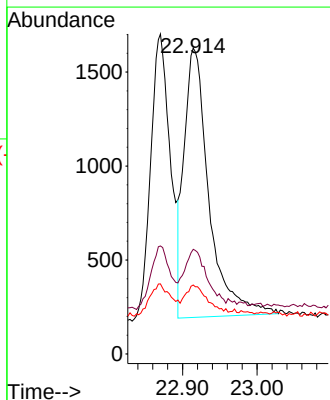
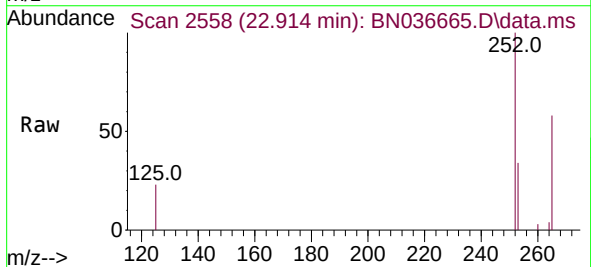
Instrument :
BNA_N
ClientSampleId :
PB167159BS

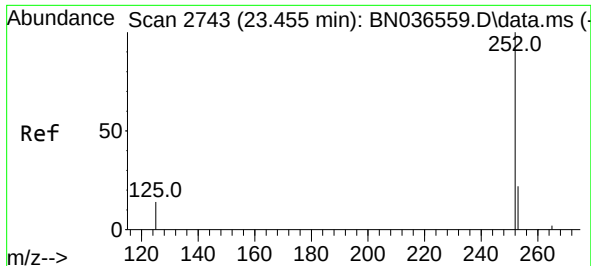
Tgt Ion:252 Resp: 2702
Ion Ratio Lower Upper
252 100
253 33.8 23.9 35.9
125 21.9 17.4 26.2



#38
Benzo(k)fluoranthene
Concen: 0.463 ng
RT: 22.914 min Scan# 2558
Delta R.T. -0.003 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

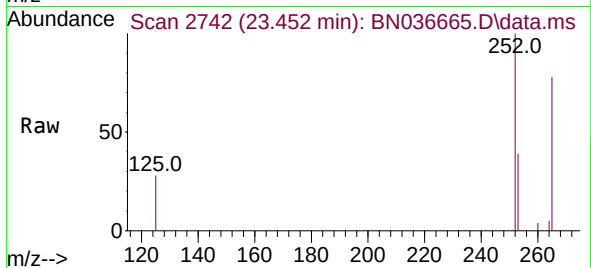
Tgt Ion:252 Resp: 3322
Ion Ratio Lower Upper
252 100
253 34.2 24.6 36.8
125 22.5 17.8 26.8



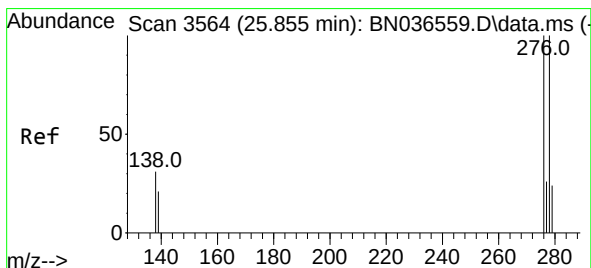
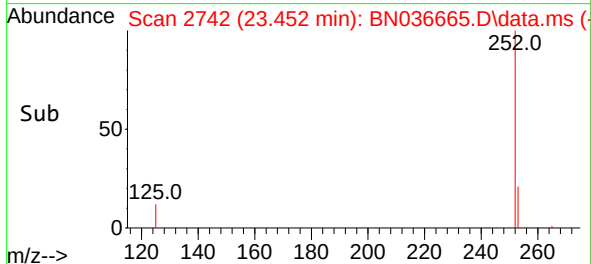
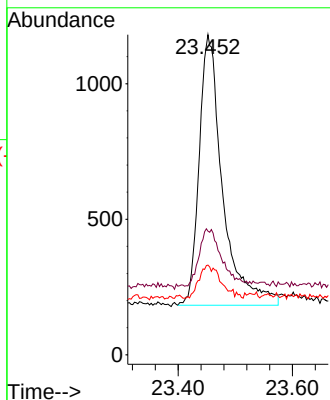


#39
Benzo(a)pyrene
Concen: 0.493 ng
RT: 23.452 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

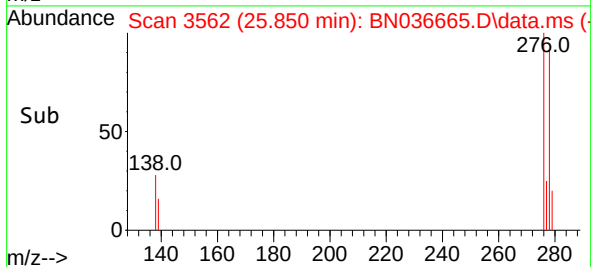
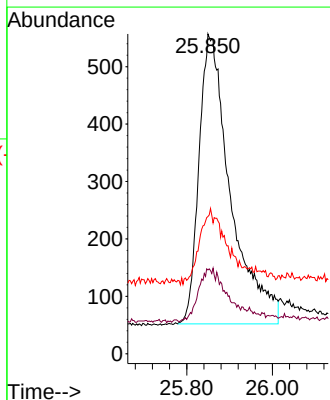
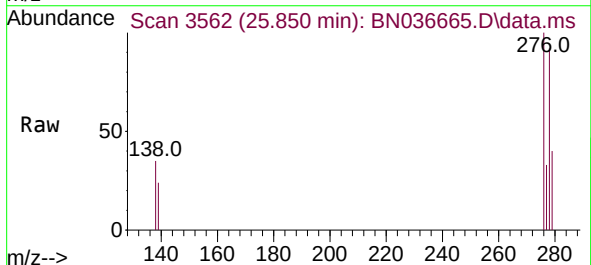


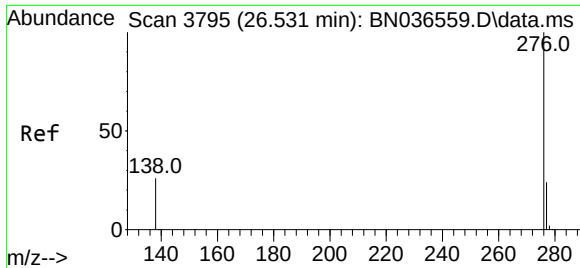
Tgt Ion:252 Resp: 2835
Ion Ratio Lower Upper
252 100
253 38.6 27.8 41.8
125 28.0 22.7 34.1



#40
Dibenzo(a,h)anthracene
Concen: 0.489 ng
RT: 25.850 min Scan# 3562
Delta R.T. -0.006 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

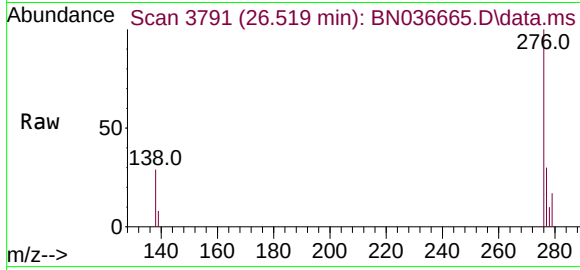
Tgt Ion:278 Resp: 2578
Ion Ratio Lower Upper
278 100
139 26.2 20.8 31.2
279 42.9 28.8 43.2



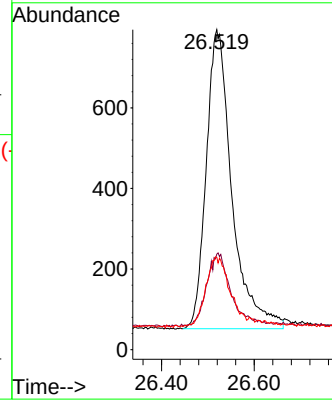
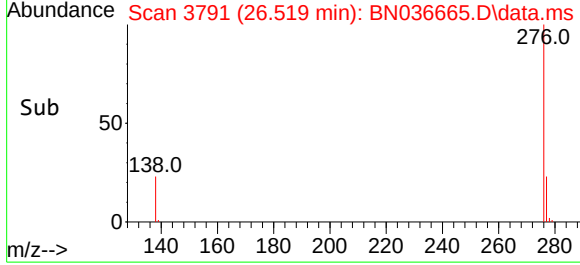


#41
 Benzo(g,h,i)perylene
 Concen: 0.473 ng
 RT: 26.519 min Scan# 31
 Delta R.T. -0.011 min
 Lab File: BN036665.D
 Acq: 17 Mar 2025 18:31

Instrument :
 BNA_N
 ClientSampleId :
 PB167159BS



Tgt Ion:	276	Resp:	2857
Ion	Ratio	Lower	Upper
276	100		
277	29.8	22.2	33.4
138	28.8	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
 Data File : BN036666.D
 Acq On : 17 Mar 2025 19:08
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Mar 18 00:55:25 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

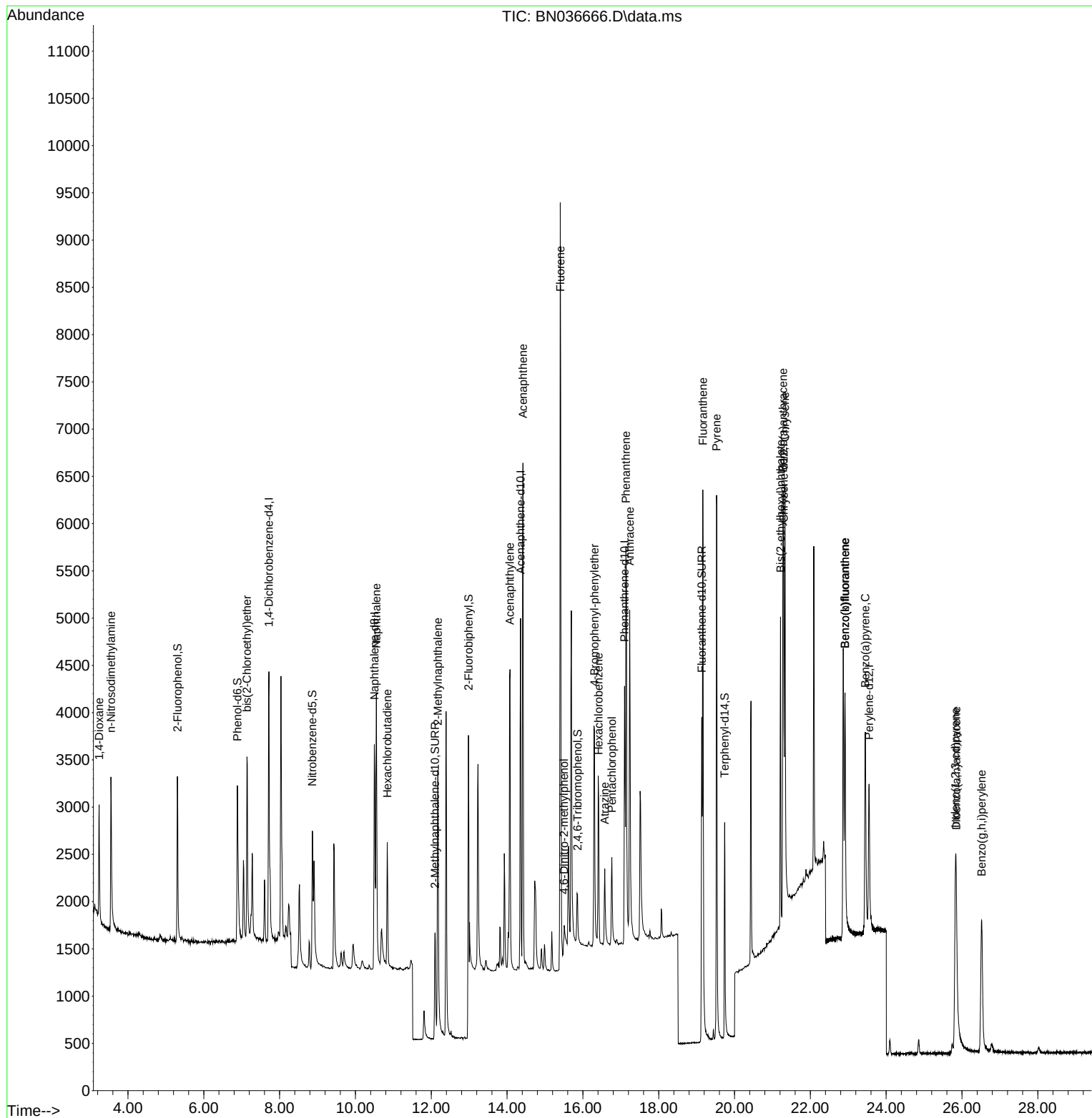
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1400	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	3548	0.400	ng	-0.01
13) Acenaphthene-d10	14.356	164	2067	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	4004	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	2784	0.400	ng	0.00
35) Perylene-d12	23.549	264	2401	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	1336	0.409	ng	0.00
5) Phenol-d6	6.887	99	1589	0.394	ng	-0.01
8) Nitrobenzene-d5	8.865	82	1411	0.366	ng	-0.01
11) 2-Methylnaphthalene-d10	12.101	152	2112	0.400	ng	-0.01
14) 2,4,6-Tribromophenol	15.858	330	387	0.413	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	4842	0.403	ng	0.00
27) Fluoranthene-d10	19.136	212	4416	0.430	ng	0.00
31) Terphenyl-d14	19.740	244	2760	0.414	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	747	0.481	ng	Qvalue 97
3) n-Nitrosodimethylamine	3.550	42	1500	0.477	ng	88
6) bis(2-Chloroethyl)ether	7.139	93	1583	0.380	ng	98
9) Naphthalene	10.552	128	4134	0.396	ng	98
10) Hexachlorobutadiene	10.840	225	1029	0.419	ng	# 98
12) 2-Methylnaphthalene	12.172	142	2633	0.396	ng	95
16) Acenaphthylene	14.078	152	4009	0.411	ng	100
17) Acenaphthene	14.420	154	2697	0.422	ng	99
18) Fluorene	15.403	166	3637	0.421	ng	99
20) 4,6-Dinitro-2-methylph...	15.499	198	285	0.424	ng	94
21) 4-Bromophenyl-phenylether	16.305	248	1057	0.421	ng	# 83
22) Hexachlorobenzene	16.416	284	1345	0.444	ng	94
23) Atrazine	16.578	200	916	0.455	ng	97
24) Pentachlorophenol	16.764	266	582	0.421	ng	97
25) Phenanthrene	17.136	178	5204	0.433	ng	99
26) Anthracene	17.235	178	4660	0.430	ng	99
28) Fluoranthene	19.164	202	5887	0.436	ng	98
30) Pyrene	19.527	202	5967	0.438	ng	100
32) Benzo(a)anthracene	21.277	228	3762	0.389	ng	99
33) Chrysene	21.331	228	4705	0.445	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	3084	0.447	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.826	276	3581	0.413	ng	# 94
37) Benzo(b)fluoranthene	22.914	252	3889	0.445	ng	96
38) Benzo(k)fluoranthene	22.914	252	3889	0.424	ng	97
39) Benzo(a)pyrene	23.449	252	3280	0.446	ng	# 87
40) Dibenzo(a,h)anthracene	25.849	278	2826	0.419	ng	95
41) Benzo(g,h,i)perylene	26.519	276	3263	0.423	ng	99

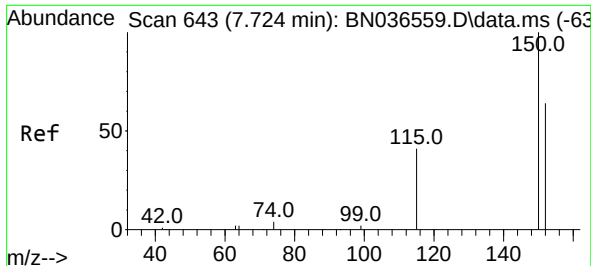
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036666.D
Acq On : 17 Mar 2025 19:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 18 00:55:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

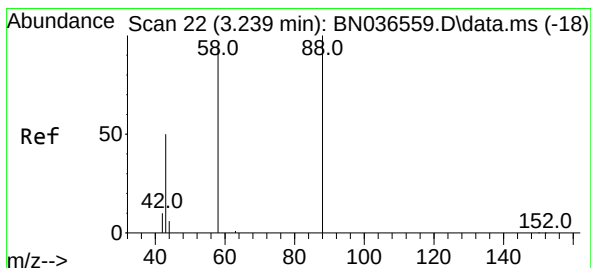
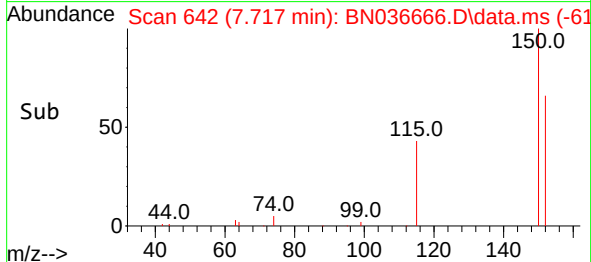
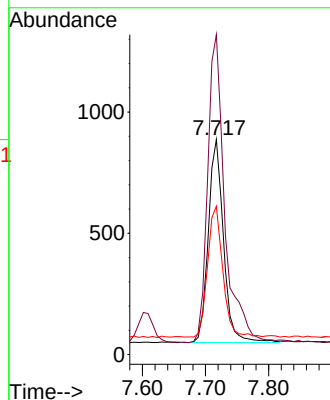
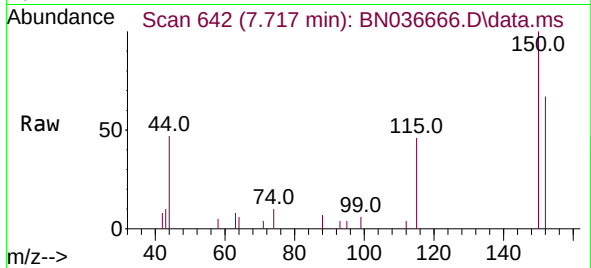




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.717 min Scan# 64
 Delta R.T. -0.007 min
 Lab File: BN036666.D
 Acq: 17 Mar 2025 19:08

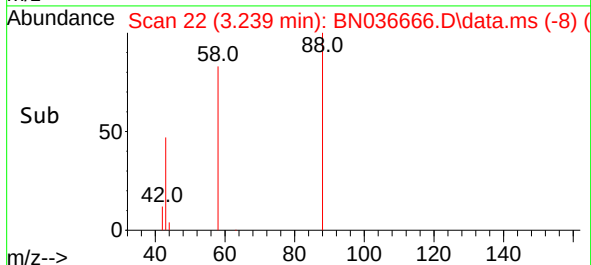
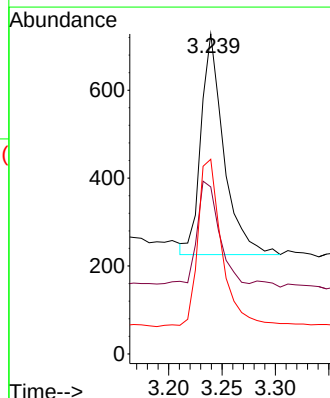
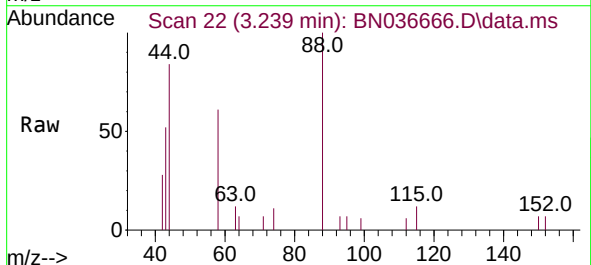
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

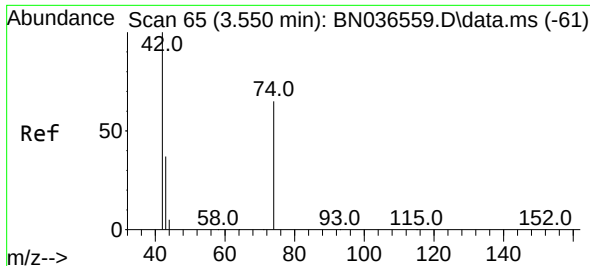
Tgt Ion:152 Resp: 1400
 Ion Ratio Lower Upper
 152 100
 150 148.7 123.7 185.5
 115 69.0 54.3 81.5



#2
 1,4-Dioxane
 Concen: 0.481 ng
 RT: 3.239 min Scan# 22
 Delta R.T. 0.000 min
 Lab File: BN036666.D
 Acq: 17 Mar 2025 19:08

Tgt Ion: 88 Resp: 747
 Ion Ratio Lower Upper
 88 100
 43 46.2 37.8 56.8
 58 80.9 67.4 101.2

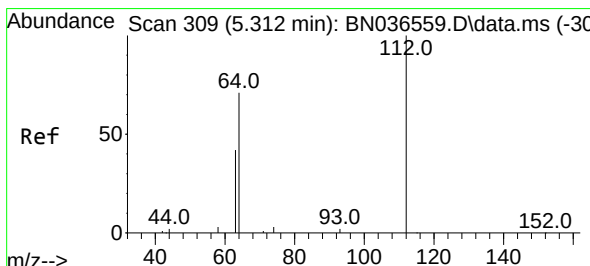
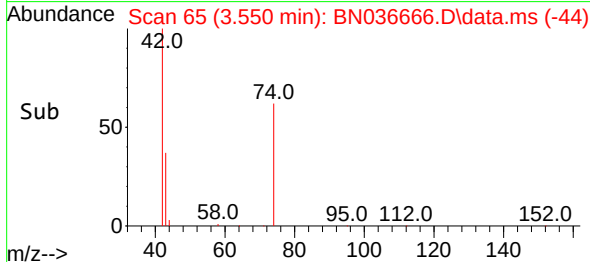
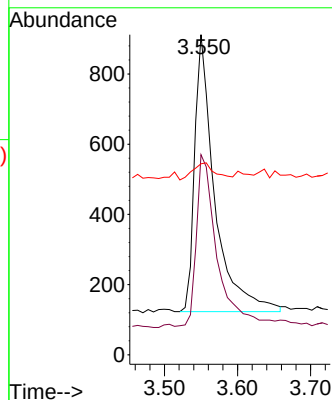
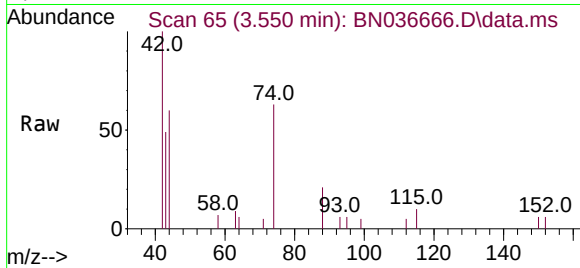




#3
n-Nitrosodimethylamine
Concen: 0.477 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

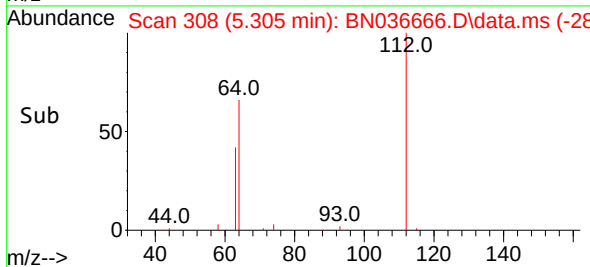
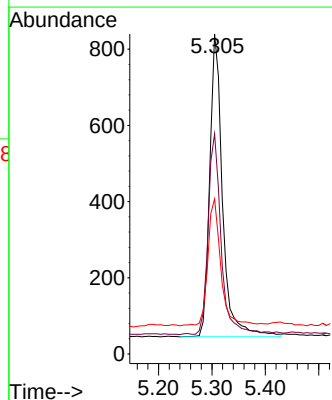
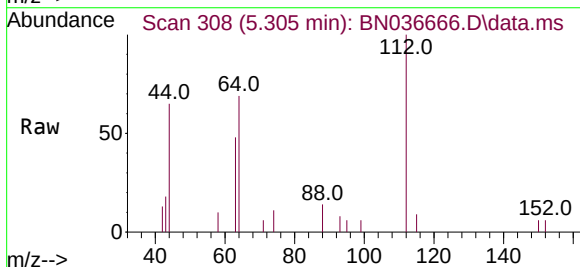
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

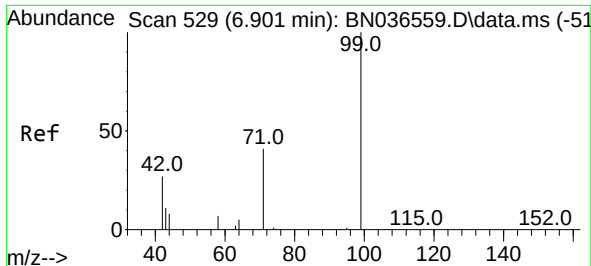
Tgt Ion: 42 Resp: 1500
Ion Ratio Lower Upper
42 100
74 65.0 60.6 90.8
44 6.9 6.3 9.5



#4
2-Fluorophenol
Concen: 0.409 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.007 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion: 112 Resp: 1336
Ion Ratio Lower Upper
112 100
64 68.0 53.1 79.7
63 43.6 31.8 47.8

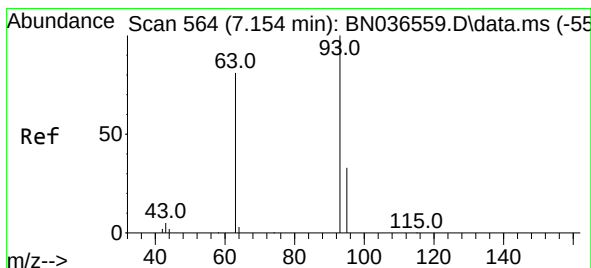
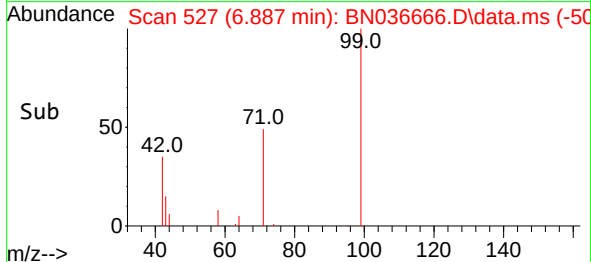
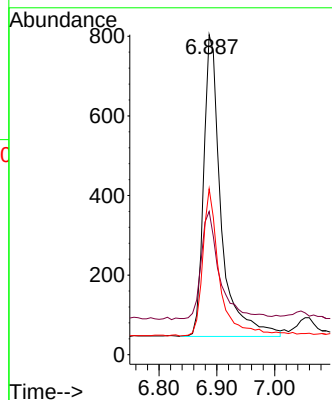
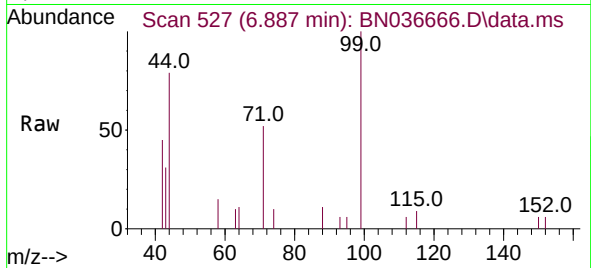




#5
Phenol-d6
Concen: 0.394 ng
RT: 6.887 min Scan# 51
Delta R.T. -0.014 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

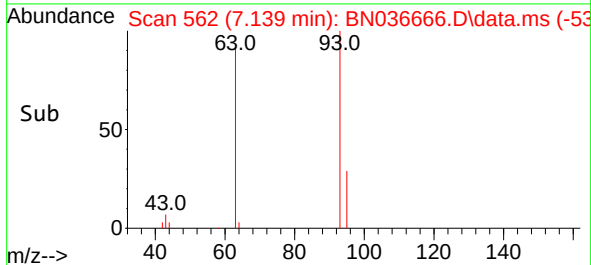
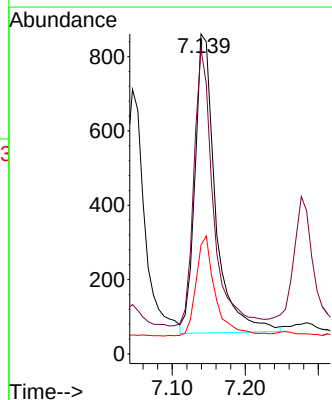
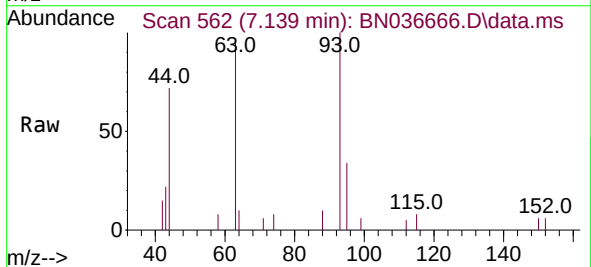
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

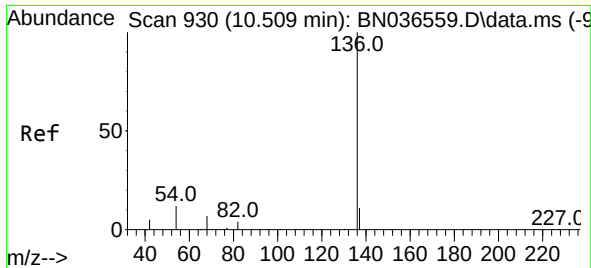
Tgt Ion:	99	Resp:	1589
Ion	Ratio	Lower	Upper
99	100		
42	39.2	26.5	39.7
71	48.1	34.1	51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.380 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.014 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:	93	Resp:	1583
Ion	Ratio	Lower	Upper
93	100		
63	86.4	67.7	101.5
95	31.5	25.6	38.4

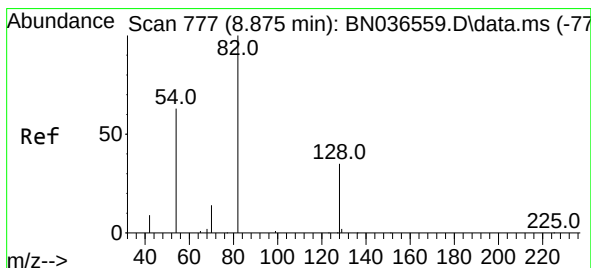
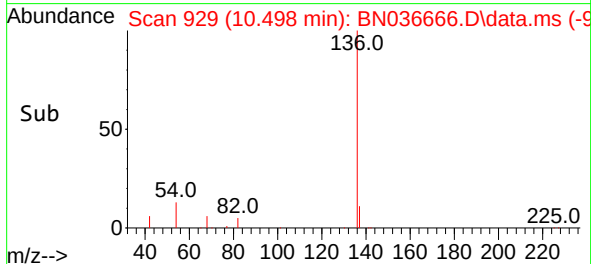
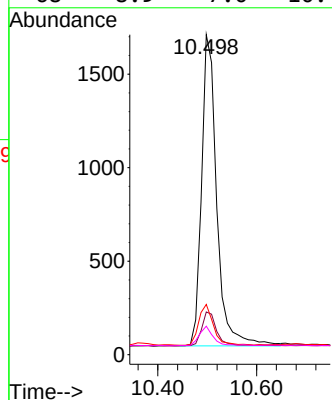
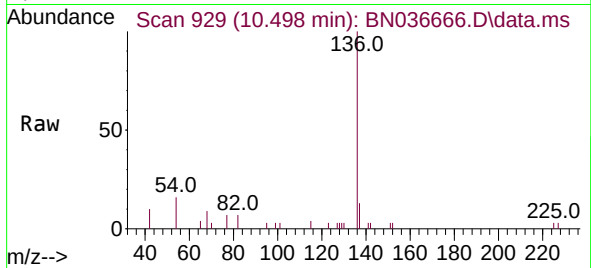




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

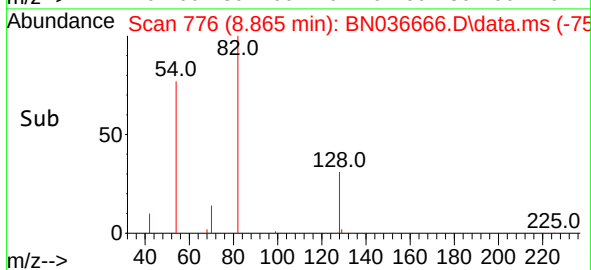
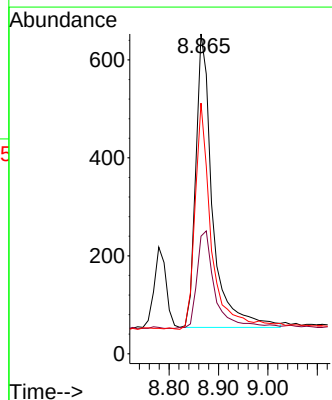
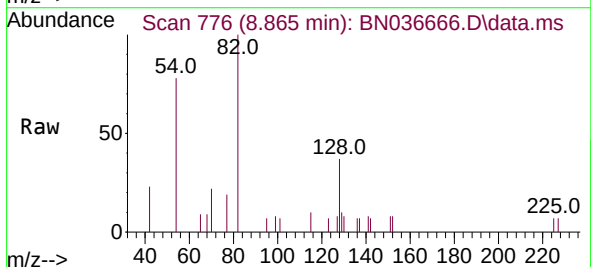
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

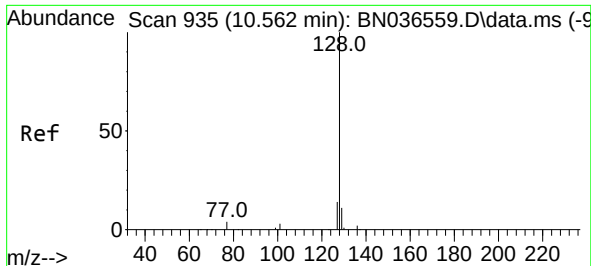
Tgt Ion:	136	Resp:	3548
Ion	Ratio	Lower	Upper
136	100		
137	13.4	10.3	15.5
54	15.7	11.5	17.3
68	8.9	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.366 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:	82	Resp:	1411
Ion	Ratio	Lower	Upper
82	100		
128	36.8	30.6	45.8
54	78.4	52.2	78.4#

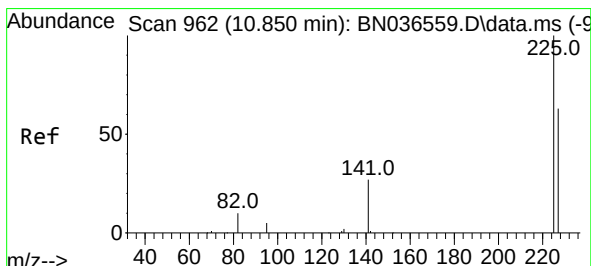
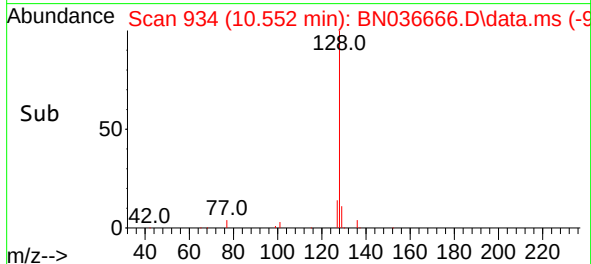
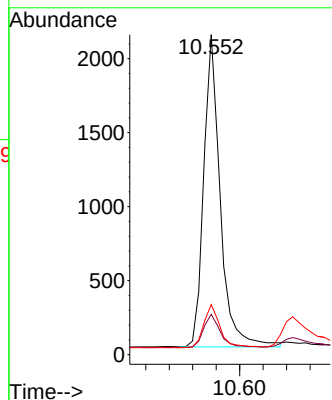
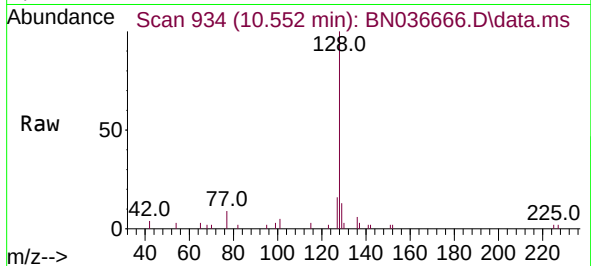




#9
Naphthalene
Concen: 0.396 ng
RT: 10.552 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

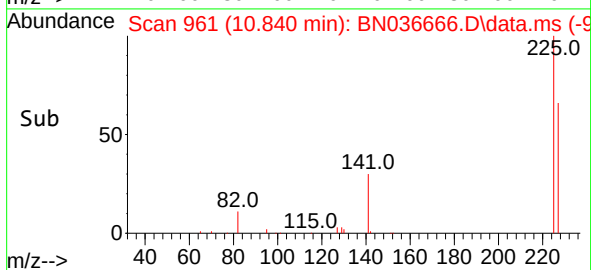
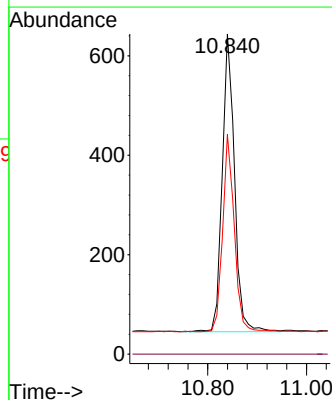
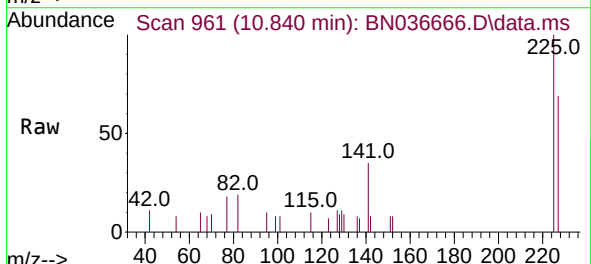
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

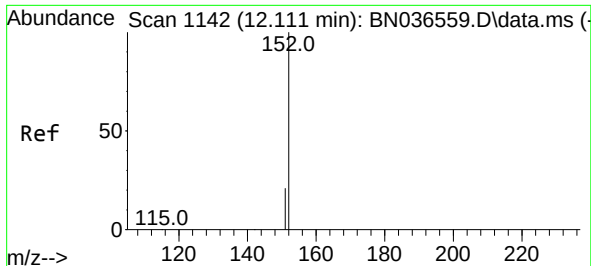
Tgt Ion:	128	Resp:	4134
Ion	Ratio	Lower	Upper
128	100		
129	12.6	9.8	14.6
127	15.6	11.8	17.8



#10
Hexachlorobutadiene
Concen: 0.419 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:	225	Resp:	1029
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	51.8	77.8

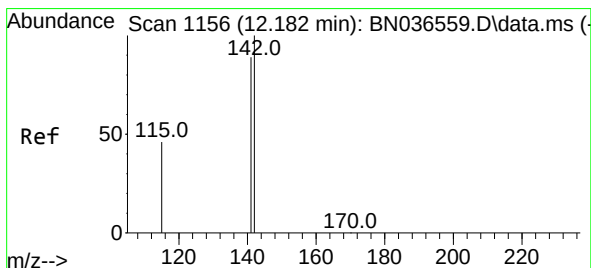
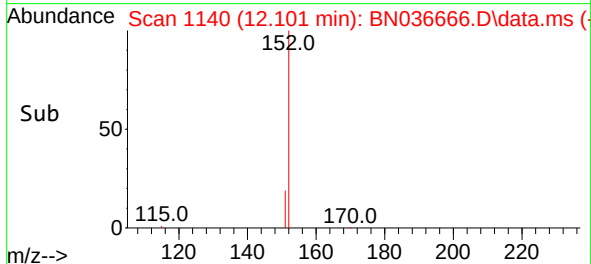
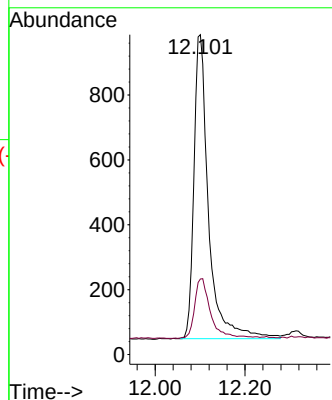
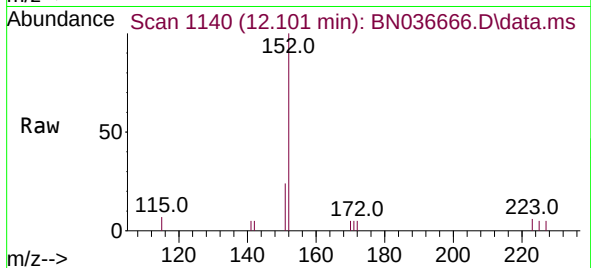




#11
2-Methylnaphthalene-d10
Concen: 0.400 ng
RT: 12.101 min Scan# 1140
Delta R.T. -0.010 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

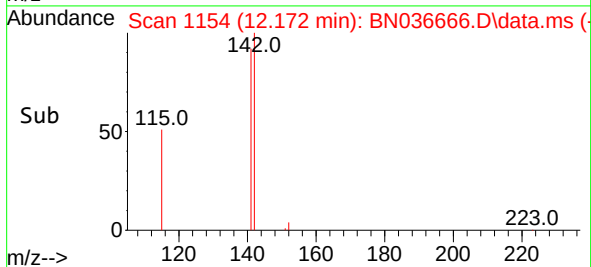
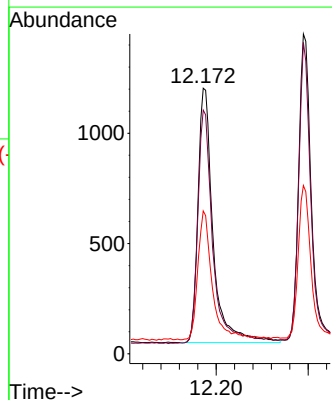
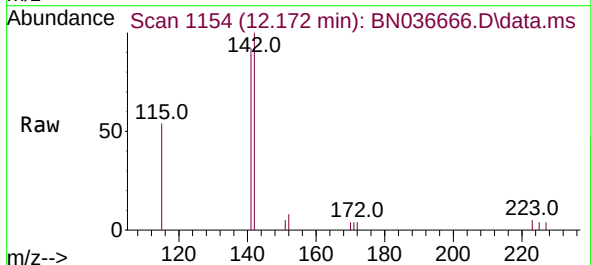
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

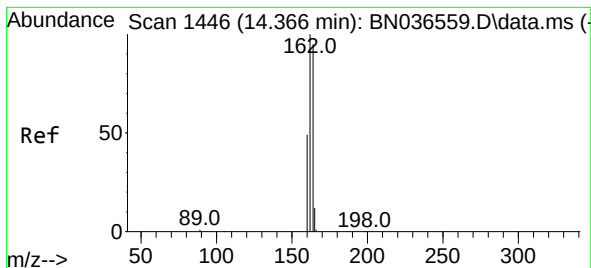
Tgt Ion:152 Resp: 2112
Ion Ratio Lower Upper
152 100
151 20.8 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.396 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:142 Resp: 2633
Ion Ratio Lower Upper
142 100
141 91.8 71.7 107.5
115 53.8 38.3 57.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.356 min Scan# 1445

Delta R.T. -0.011 min

Lab File: BN036666.D

Acq: 17 Mar 2025 19:08

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

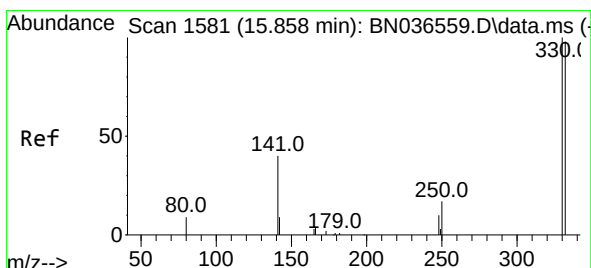
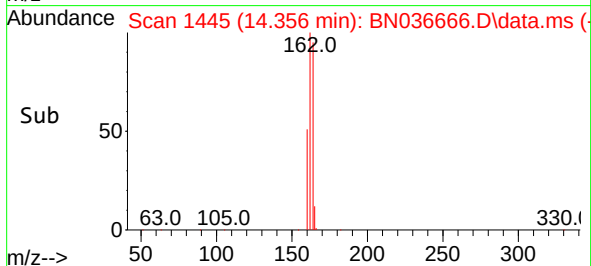
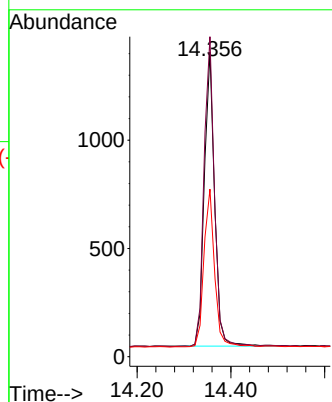
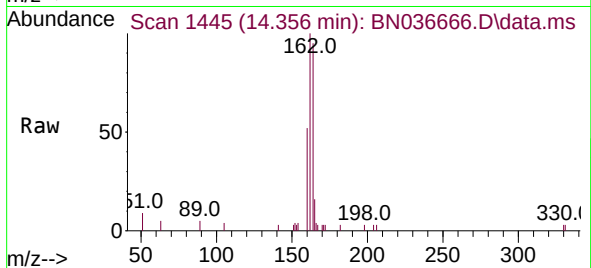
Tgt Ion:164 Resp: 2067

Ion Ratio Lower Upper

164 100

162 105.1 84.2 126.2

160 55.0 42.2 63.2



#14

2,4,6-Tribromophenol

Concen: 0.413 ng

RT: 15.858 min Scan# 1581

Delta R.T. 0.000 min

Lab File: BN036666.D

Acq: 17 Mar 2025 19:08

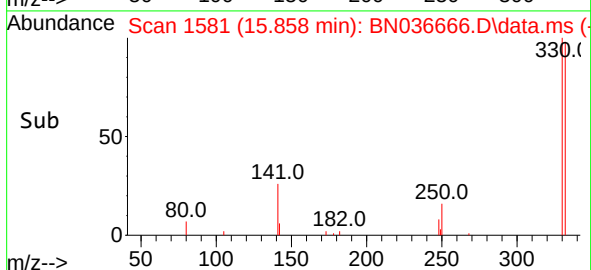
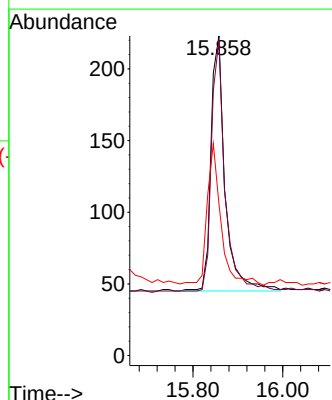
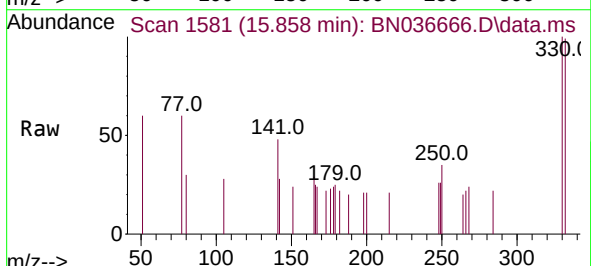
Tgt Ion:330 Resp: 387

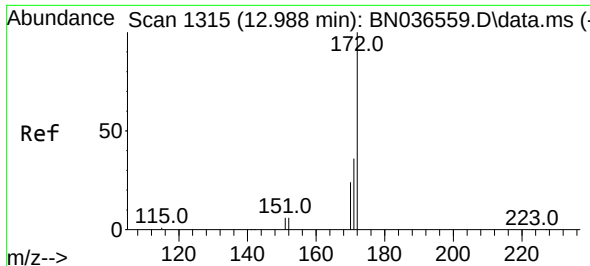
Ion Ratio Lower Upper

330 100

332 94.1 75.2 112.8

141 54.8 43.4 65.2

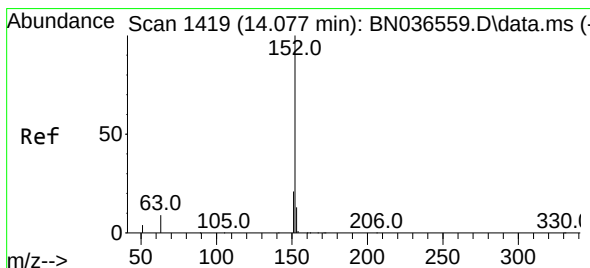
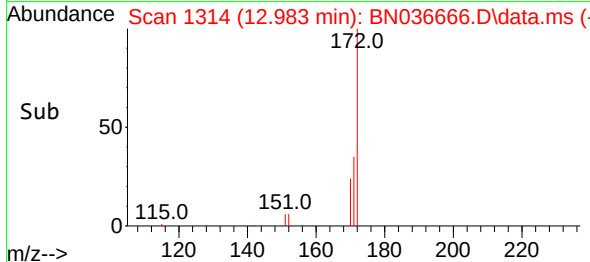
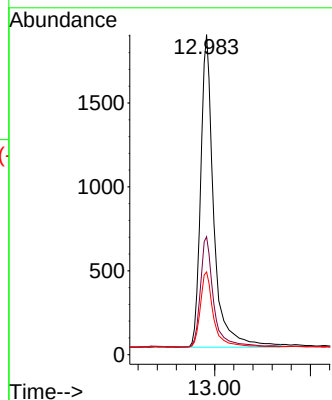
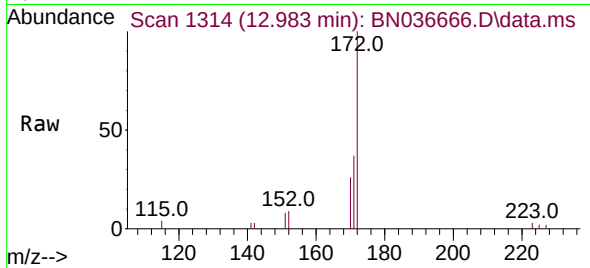




#15
2-Fluorobiphenyl
Concen: 0.403 ng
RT: 12.983 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

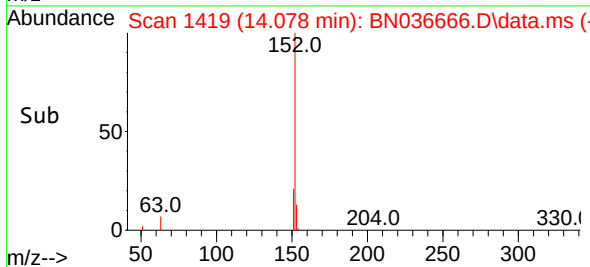
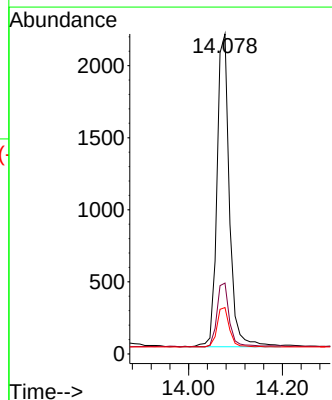
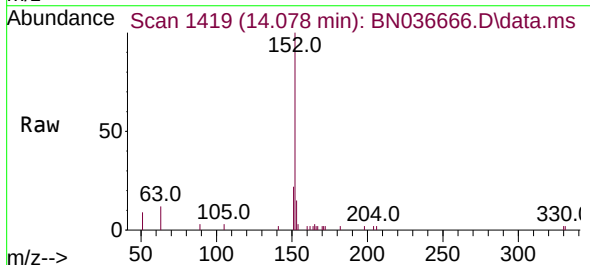
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

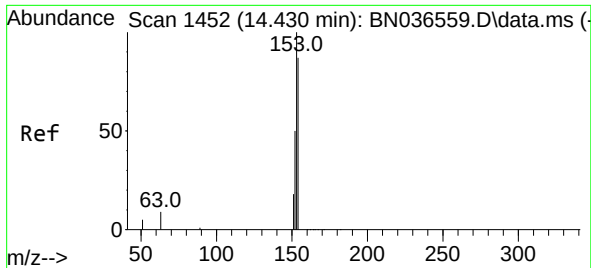
Tgt Ion:172	Resp:	4842
Ion Ratio	Lower	Upper
172	100	
171	36.9	29.5 44.3
170	25.9	20.2 30.4



#16
Acenaphthylene
Concen: 0.411 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:152	Resp:	4009
Ion Ratio	Lower	Upper
152	100	
151	20.1	16.2 24.4
153	13.0	10.6 15.8

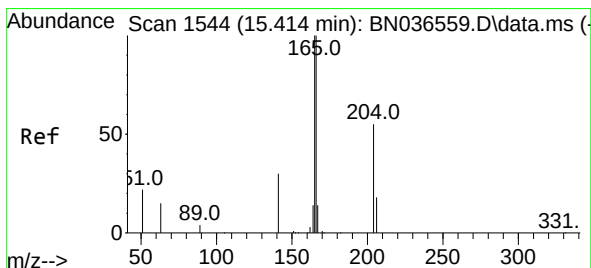
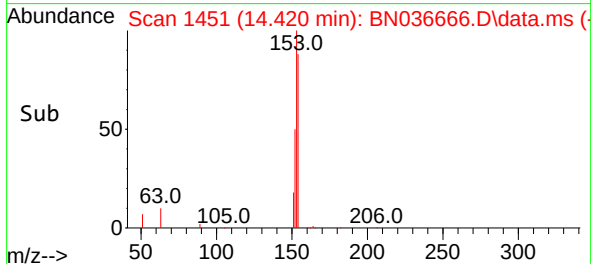
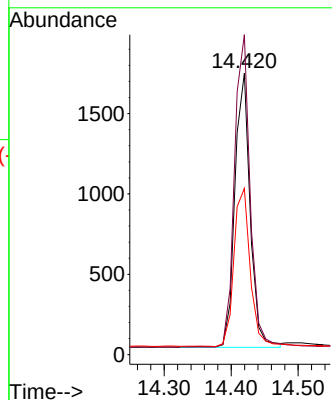
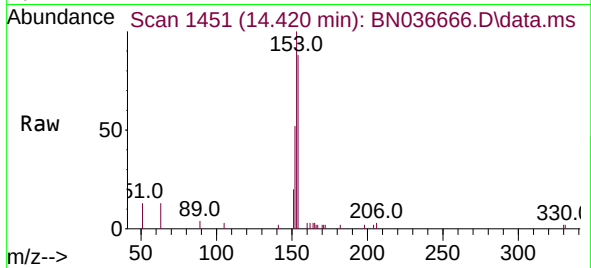




#17
Acenaphthene
Concen: 0.422 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

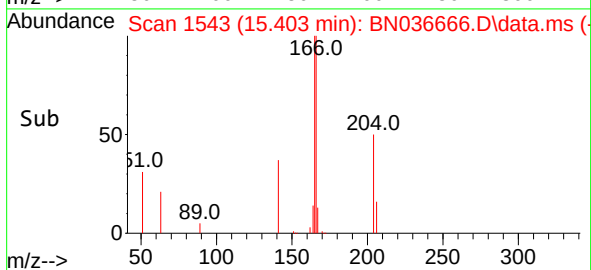
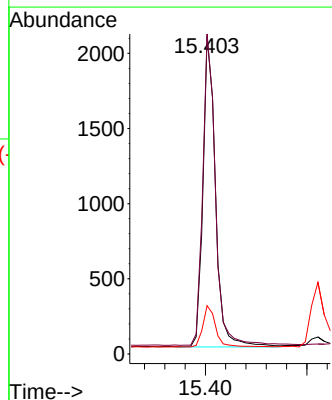
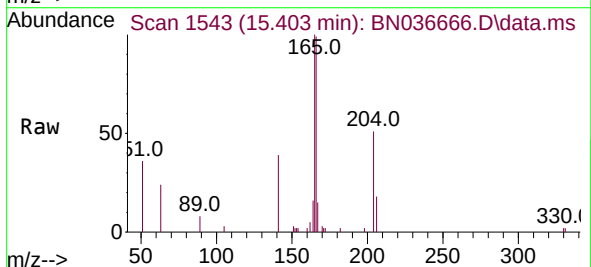
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

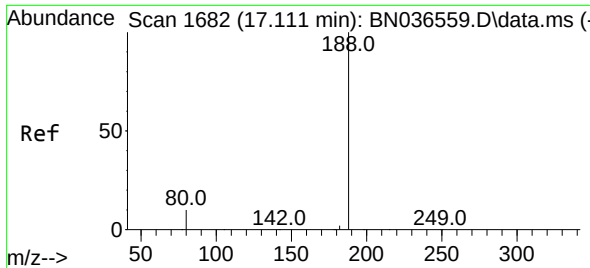
Tgt Ion:154 Resp: 2697
Ion Ratio Lower Upper
154 100
153 116.7 94.1 141.1
152 61.7 49.8 74.6



#18
Fluorene
Concen: 0.421 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.011 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:166 Resp: 3637
Ion Ratio Lower Upper
166 100
165 100.9 79.8 119.8
167 13.4 10.6 15.8

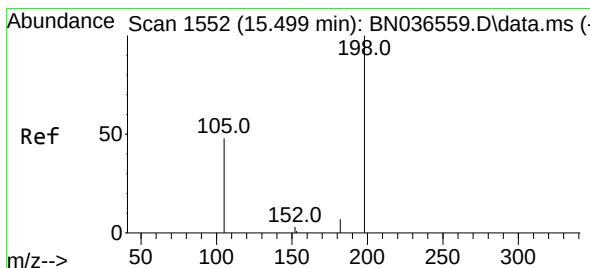
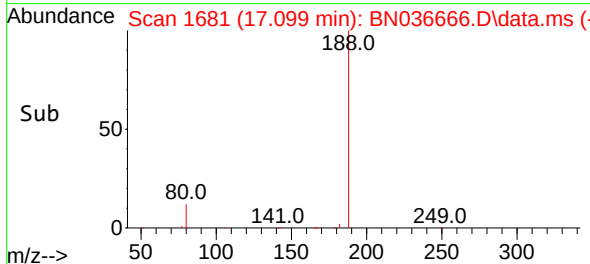
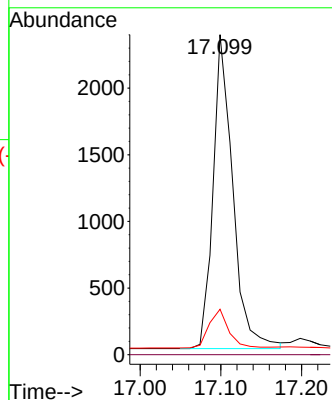
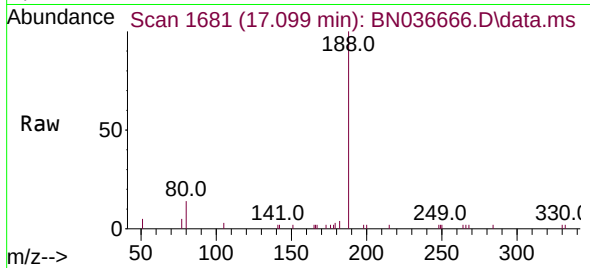




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

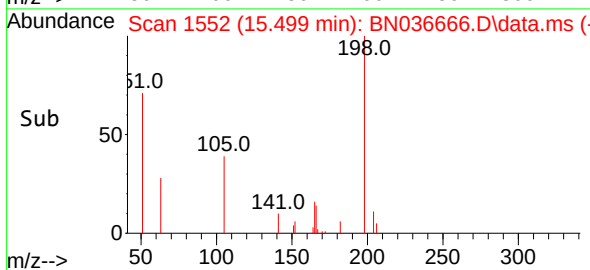
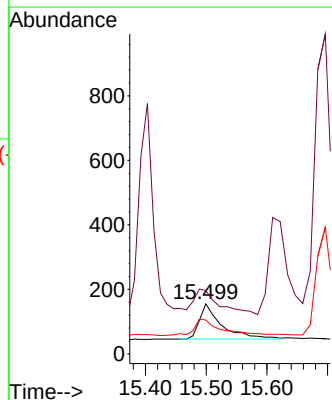
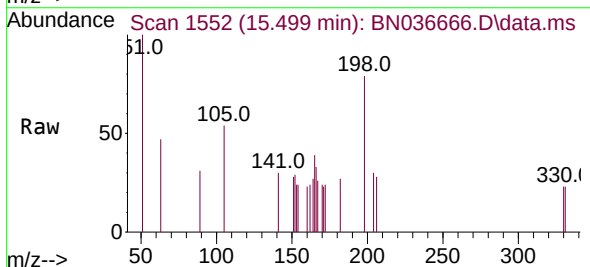
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

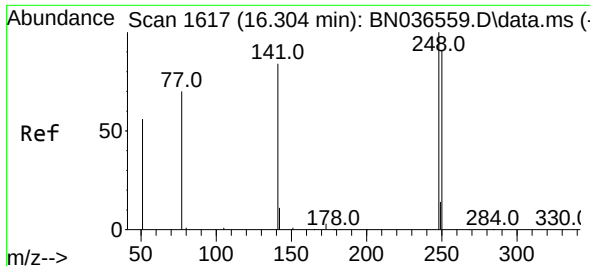
Tgt Ion:188 Resp: 4004
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 14.2 8.8 13.2#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.424 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:198 Resp: 285
Ion Ratio Lower Upper
198 100
51 126.5 107.9 161.9
105 67.7 56.2 84.2

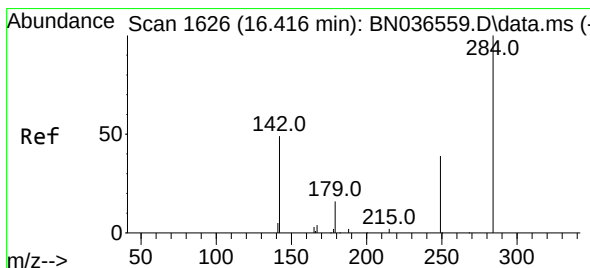
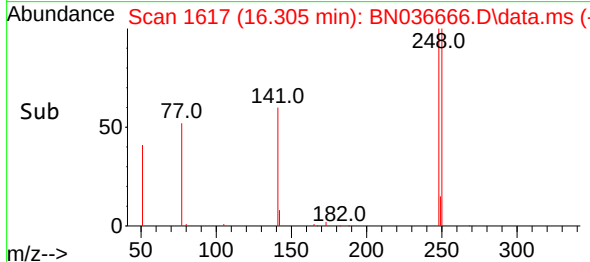
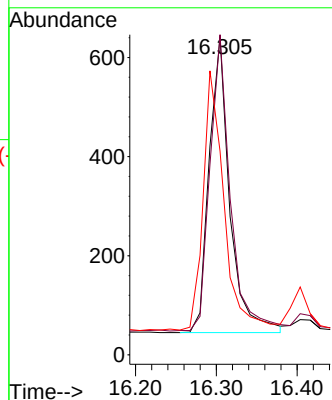
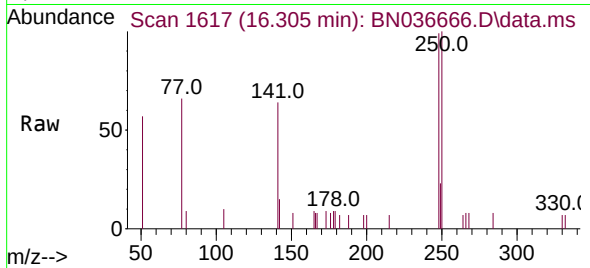




#21
4-Bromophenyl-phenylether
Concen: 0.421 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

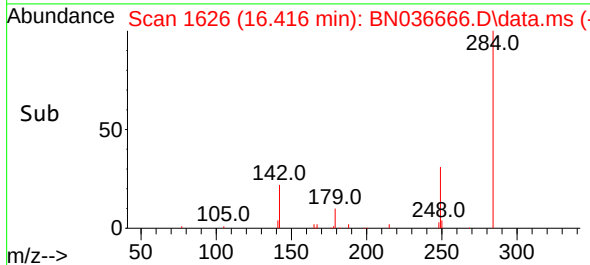
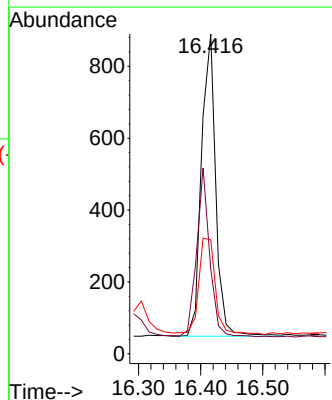
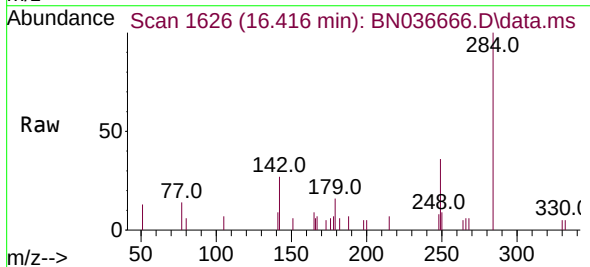
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

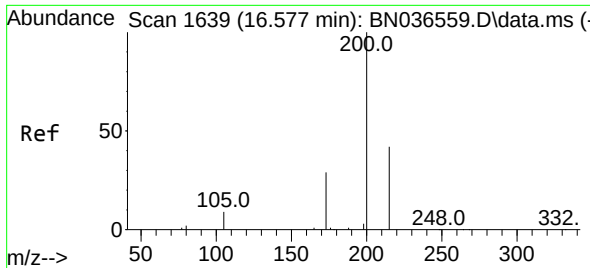
Tgt Ion:248 Resp: 1057
Ion Ratio Lower Upper
248 100
250 100.6 73.0 109.6
141 64.0 68.6 103.0#



#22
Hexachlorobenzene
Concen: 0.444 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:284 Resp: 1345
Ion Ratio Lower Upper
284 100
142 50.9 37.0 55.4
249 37.2 28.1 42.1

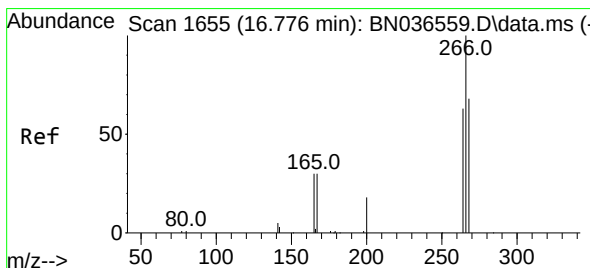
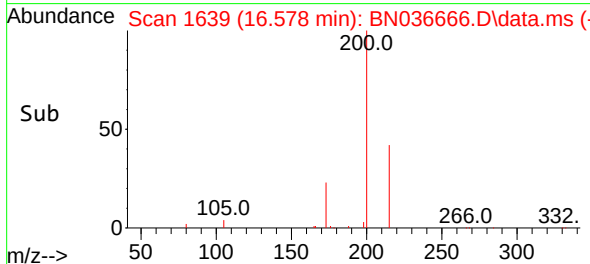
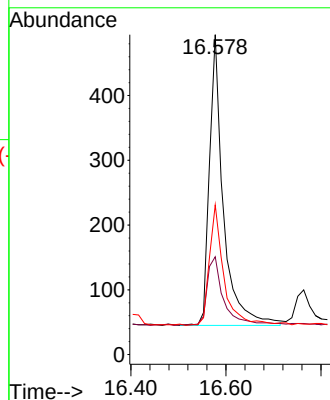
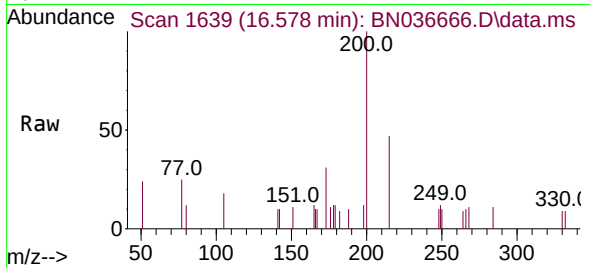




#23
 Atrazine
 Concen: 0.455 ng
 RT: 16.578 min Scan# 1639
 Delta R.T. 0.000 min
 Lab File: BN036666.D
 Acq: 17 Mar 2025 19:08

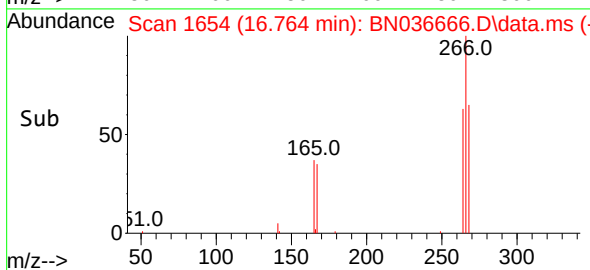
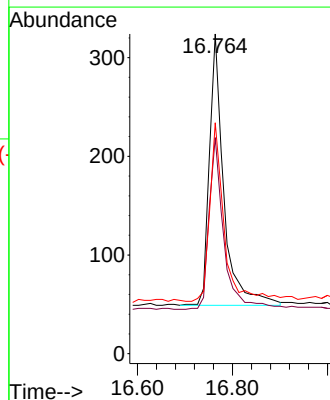
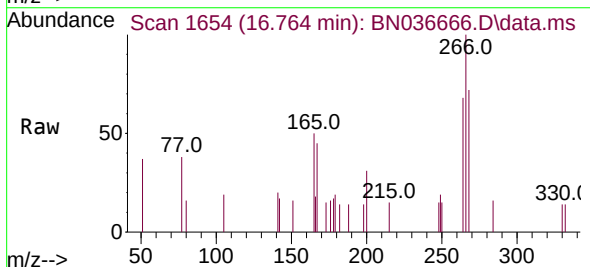
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

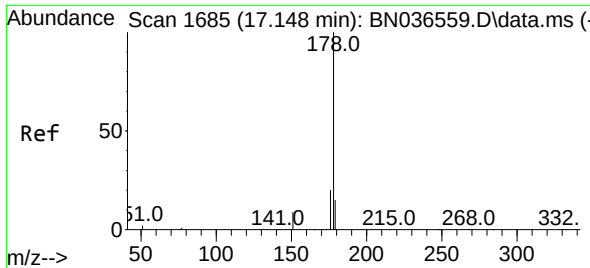
Tgt Ion:	200	Resp:	916
Ion Ratio	Lower	Upper	
200	100		
173	30.6	27.3	40.9
215	46.8	36.8	55.2



#24
 Pentachlorophenol
 Concen: 0.421 ng
 RT: 16.764 min Scan# 1654
 Delta R.T. -0.012 min
 Lab File: BN036666.D
 Acq: 17 Mar 2025 19:08

Tgt Ion:	266	Resp:	582
Ion Ratio	Lower	Upper	
266	100		
264	64.6	49.6	74.4
268	65.5	50.9	76.3

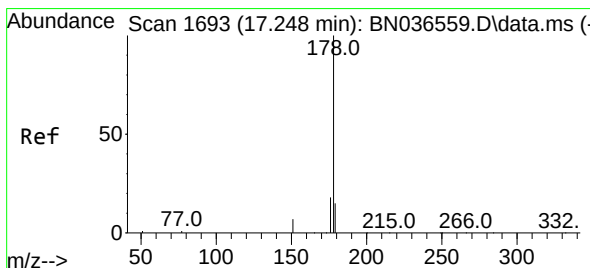
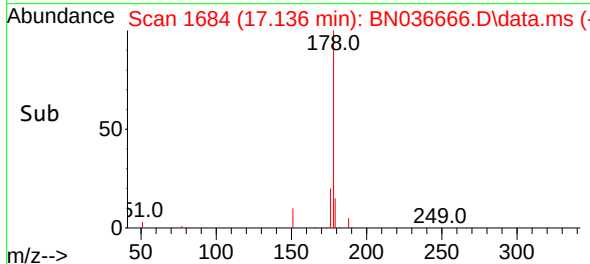
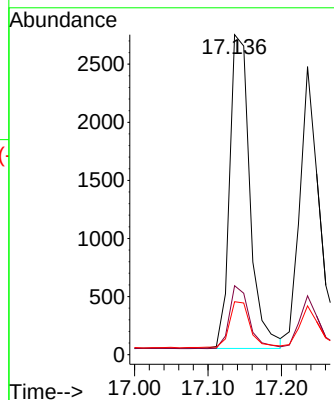
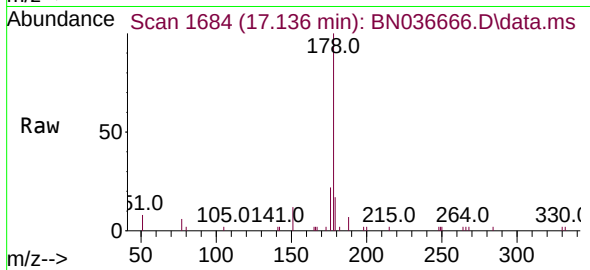




#25
Phenanthrene
Concen: 0.433 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.012 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

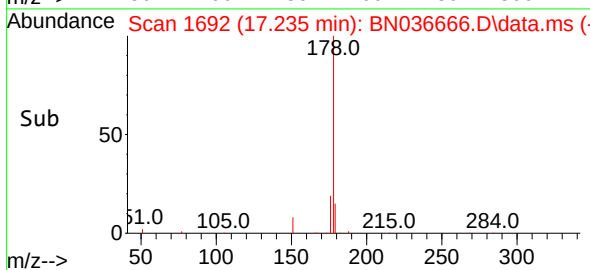
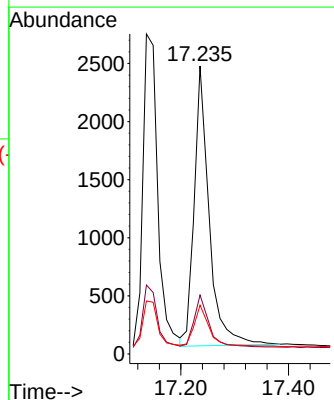
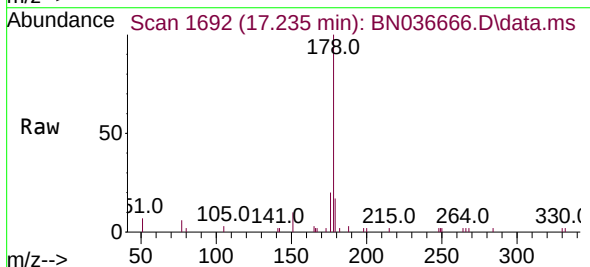
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

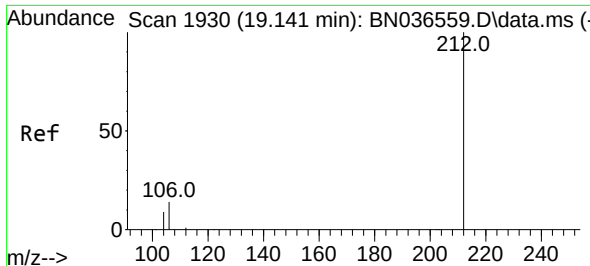
Tgt Ion:178 Resp: 5204
Ion Ratio Lower Upper
178 100
176 19.5 15.9 23.9
179 15.2 12.2 18.4



#26
Anthracene
Concen: 0.430 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:178 Resp: 4660
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 15.5 12.6 18.8

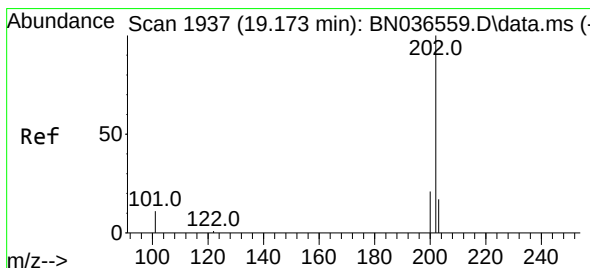
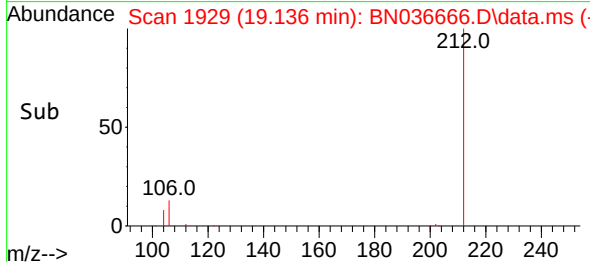
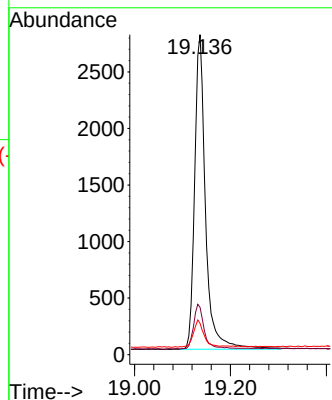
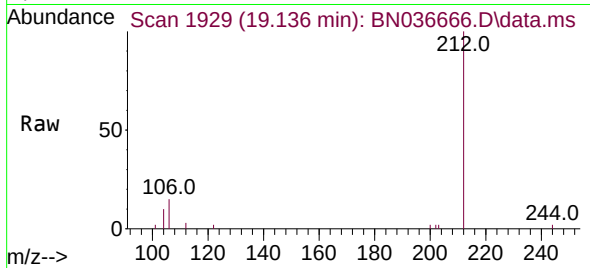




#27
Fluoranthene-d10
Concen: 0.430 ng
RT: 19.136 min Scan# 1935
Delta R.T. -0.005 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

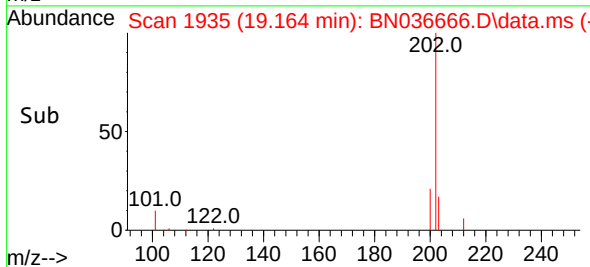
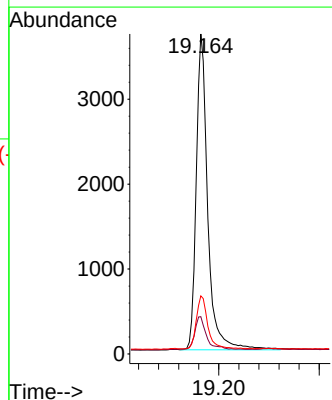
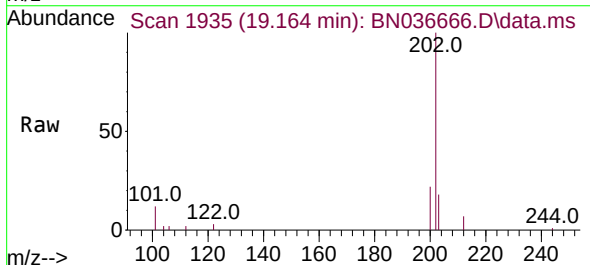
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

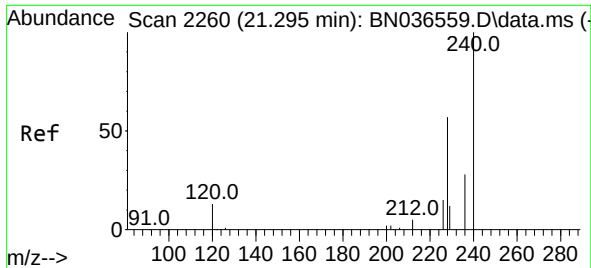
Tgt Ion:212 Resp: 4416
Ion Ratio Lower Upper
212 100
106 13.7 11.8 17.6
104 8.0 7.3 10.9



#28
Fluoranthene
Concen: 0.436 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:202 Resp: 5887
Ion Ratio Lower Upper
202 100
101 10.5 9.4 14.0
203 16.6 13.5 20.3

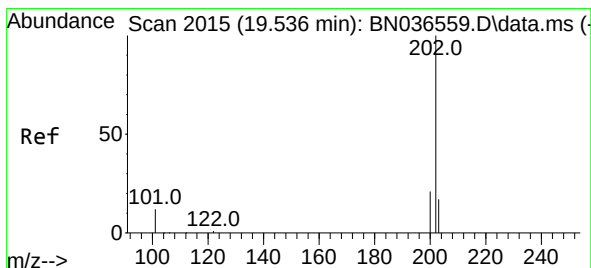
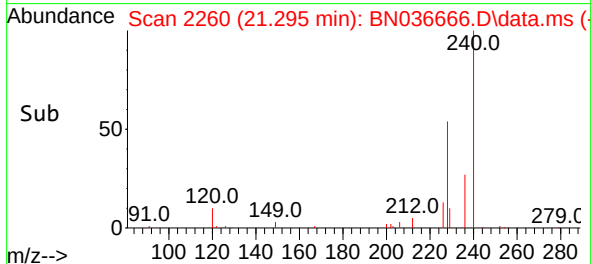
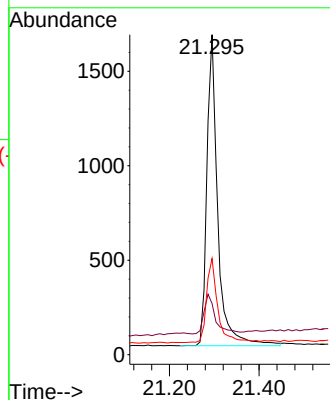
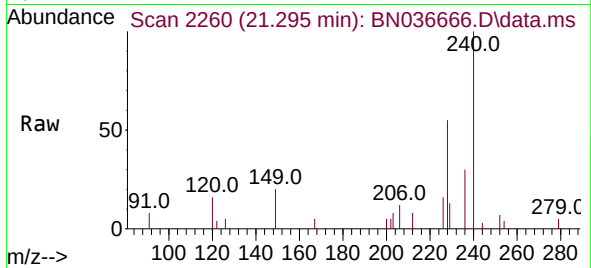




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

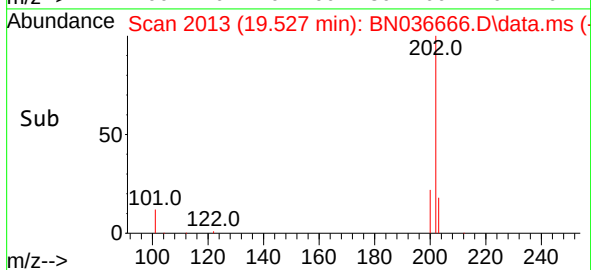
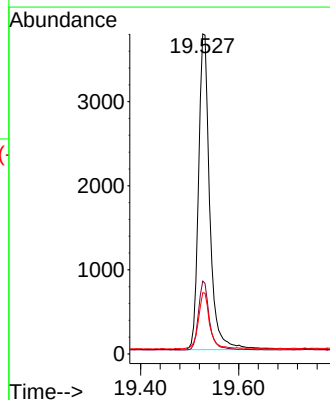
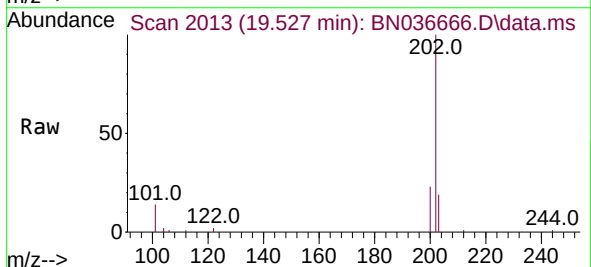
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

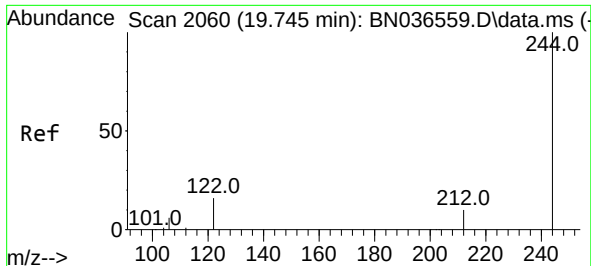
Tgt Ion:240 Resp: 2784
Ion Ratio Lower Upper
240 100
120 16.0 14.6 22.0
236 30.0 24.1 36.1



#30
Pyrene
Concen: 0.438 ng
RT: 19.527 min Scan# 2013
Delta R.T. -0.009 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:202 Resp: 5967
Ion Ratio Lower Upper
202 100
200 21.4 17.1 25.7
203 17.8 14.1 21.1

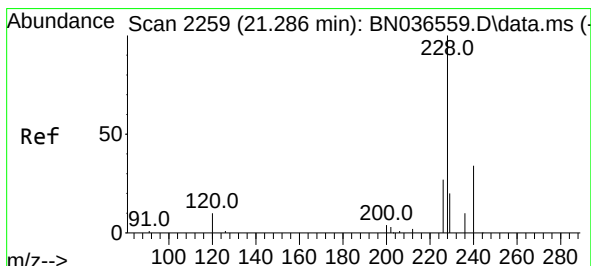
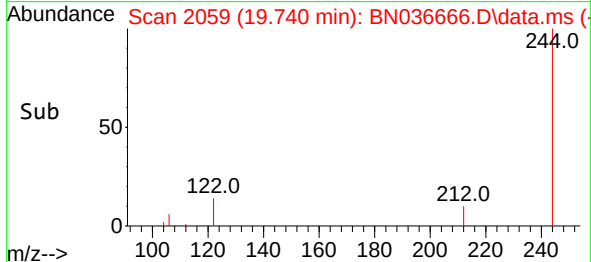
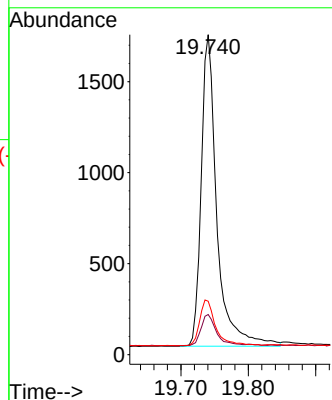
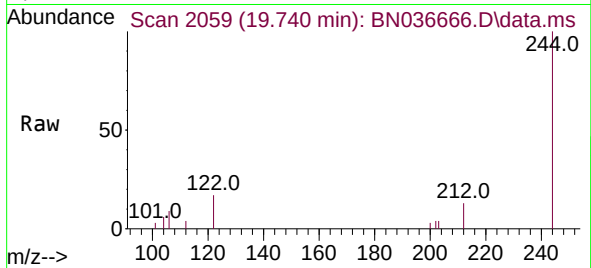




#31
 Terphenyl-d14
 Concen: 0.414 ng
 RT: 19.740 min Scan# 2060
 Delta R.T. -0.005 min
 Lab File: BN036666.D
 Acq: 17 Mar 2025 19:08

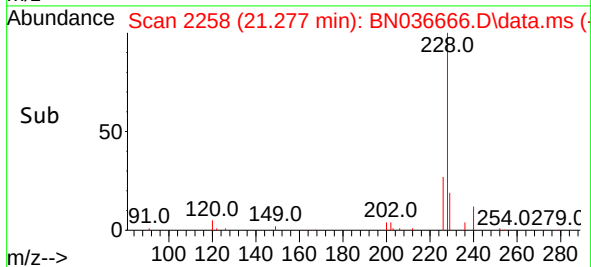
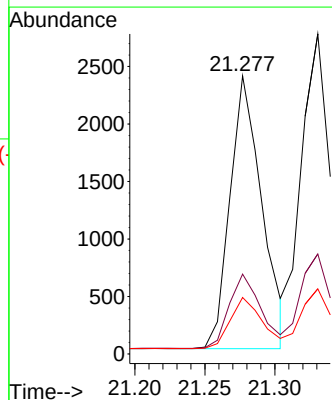
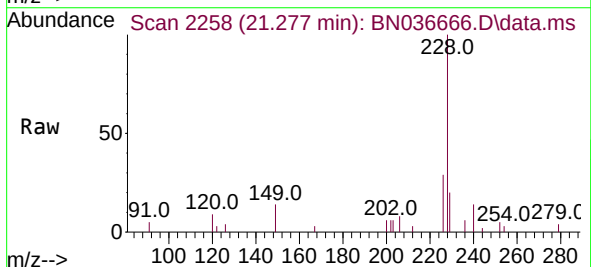
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

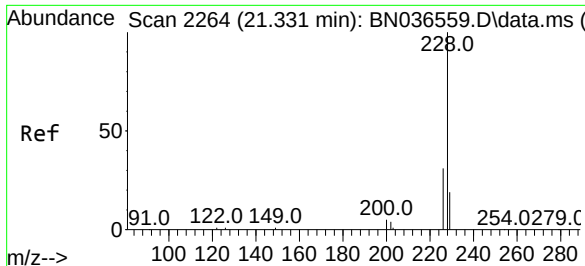
Tgt Ion:244 Resp: 2760
 Ion Ratio Lower Upper
 244 100
 212 12.5 9.6 14.4
 122 16.7 13.9 20.9



#32
 Benzo(a)anthracene
 Concen: 0.389 ng
 RT: 21.277 min Scan# 2258
 Delta R.T. -0.009 min
 Lab File: BN036666.D
 Acq: 17 Mar 2025 19:08

Tgt Ion:228 Resp: 3762
 Ion Ratio Lower Upper
 228 100
 226 28.7 22.5 33.7
 229 20.3 16.6 25.0

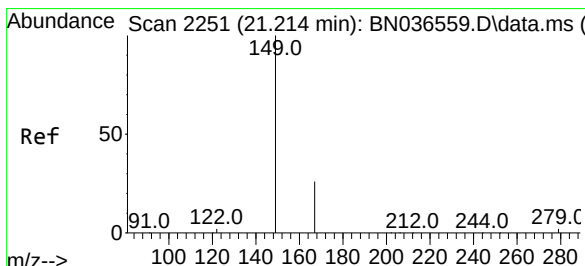
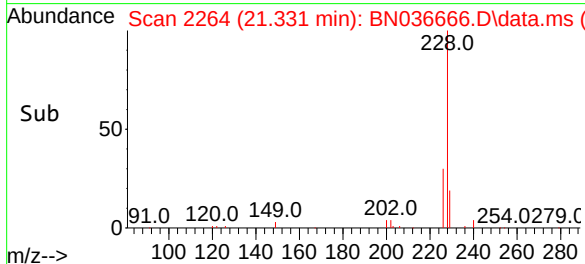
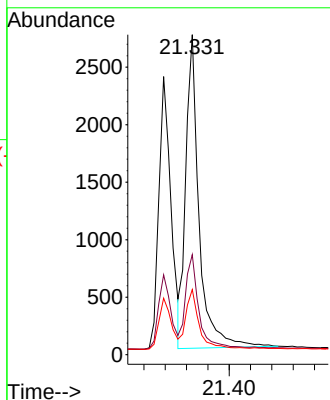
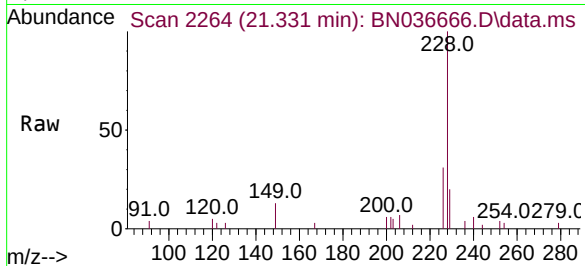




#33
Chrysene
Concen: 0.445 ng
RT: 21.331 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

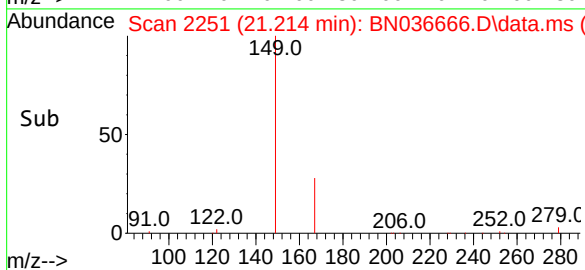
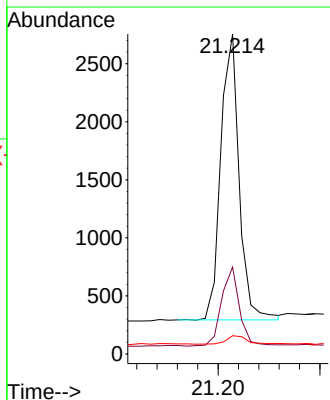
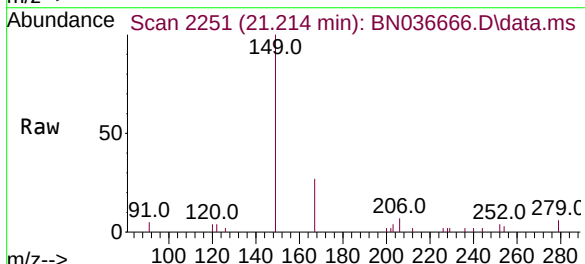
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

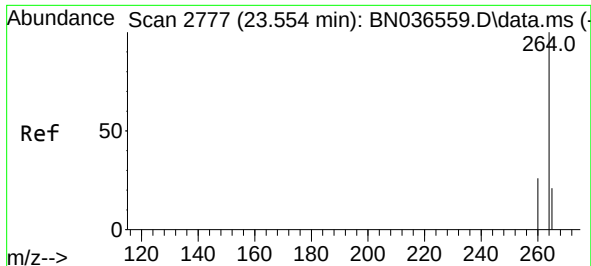
Tgt Ion:228 Resp: 4705
Ion Ratio Lower Upper
228 100
226 31.3 25.3 37.9
229 20.4 15.8 23.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.447 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

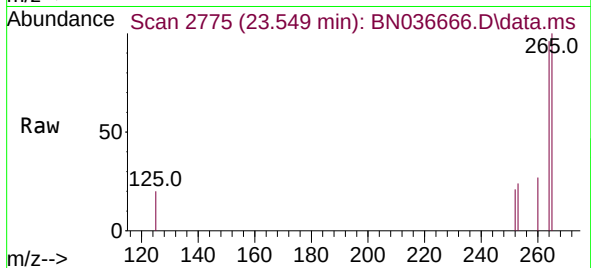
Tgt Ion:149 Resp: 3084
Ion Ratio Lower Upper
149 100
167 27.0 20.7 31.1
279 3.5 3.6 5.4#



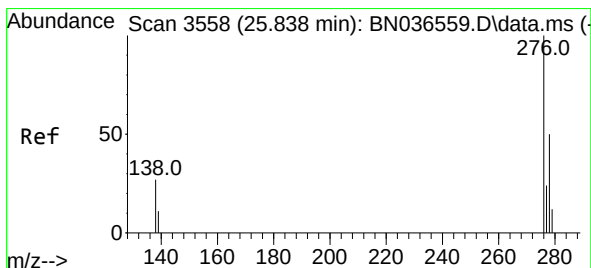
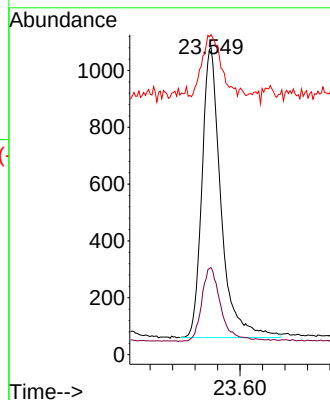
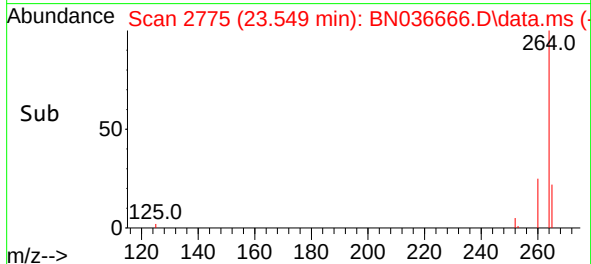


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.549 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

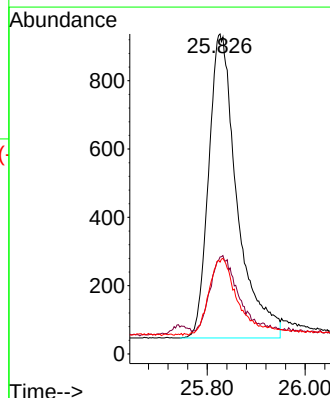
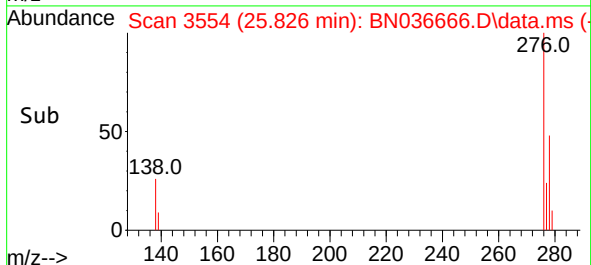
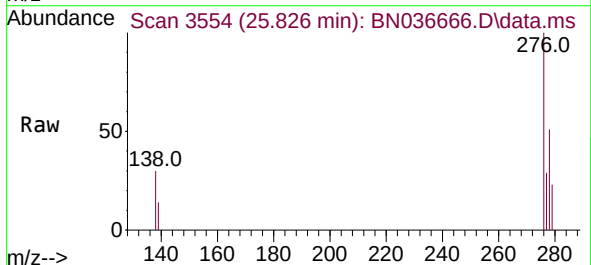


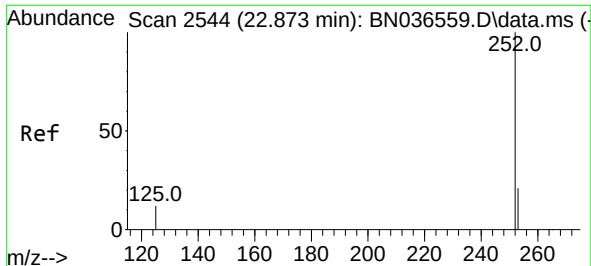
Tgt Ion:264 Resp: 2401
Ion Ratio Lower Upper
264 100
260 28.3 22.6 33.8
265 104.3 88.1 132.1



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.413 ng
RT: 25.826 min Scan# 3554
Delta R.T. -0.012 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:276 Resp: 3581
Ion Ratio Lower Upper
276 100
138 23.3 23.4 35.2#
277 25.1 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.445 ng

RT: 22.914 min Scan# 2558

Delta R.T. 0.041 min

Lab File: BN036666.D

Acq: 17 Mar 2025 19:08

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

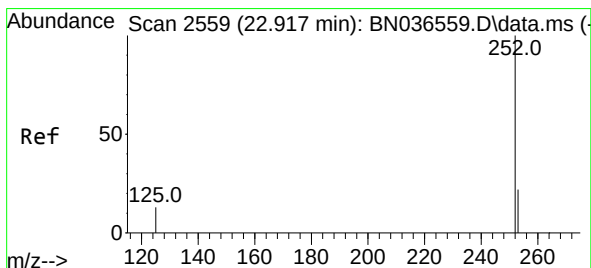
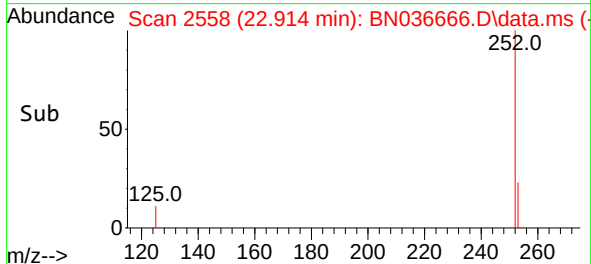
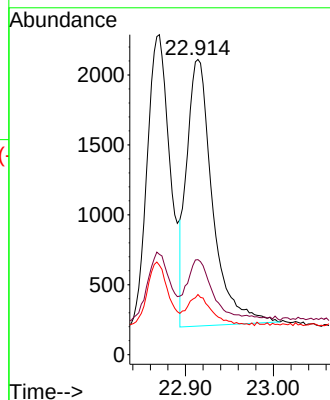
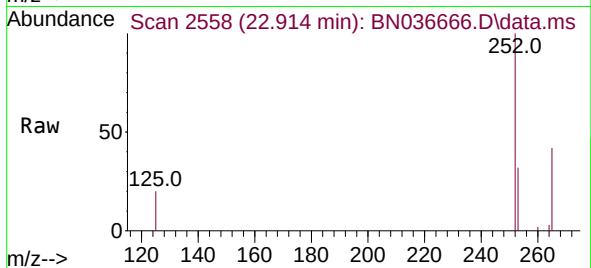
Tgt Ion:252 Resp: 3889

Ion Ratio Lower Upper

252 100

253 32.2 23.9 35.9

125 20.4 17.4 26.2



#38

Benzo(k)fluoranthene

Concen: 0.424 ng

RT: 22.914 min Scan# 2558

Delta R.T. -0.003 min

Lab File: BN036666.D

Acq: 17 Mar 2025 19:08

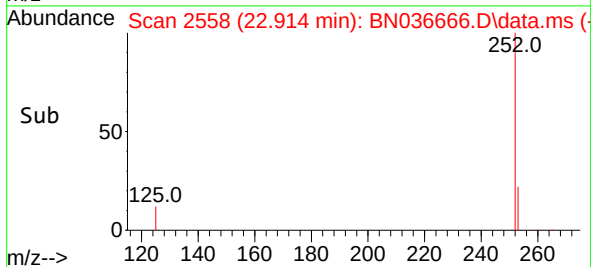
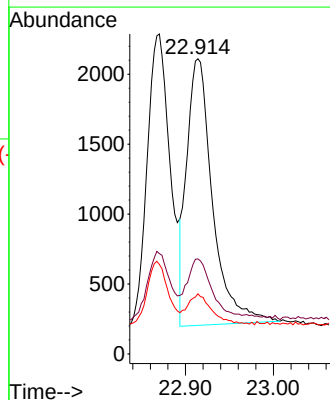
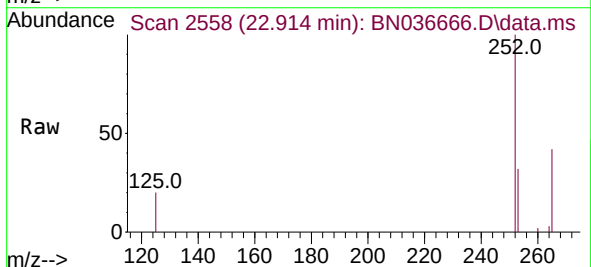
Tgt Ion:252 Resp: 3889

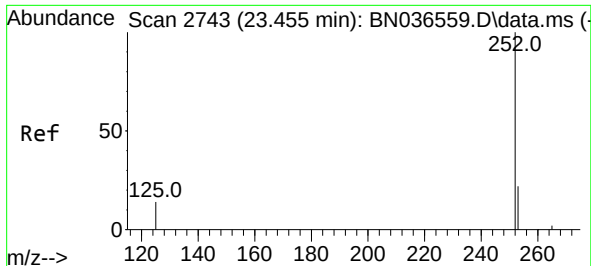
Ion Ratio Lower Upper

252 100

253 32.2 24.6 36.8

125 20.4 17.8 26.8

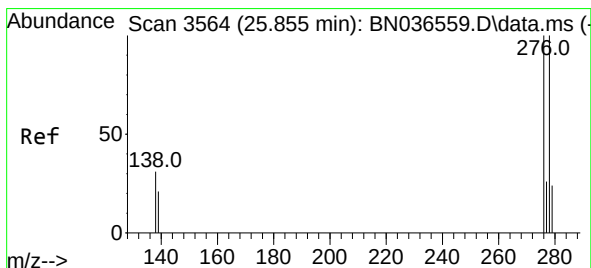
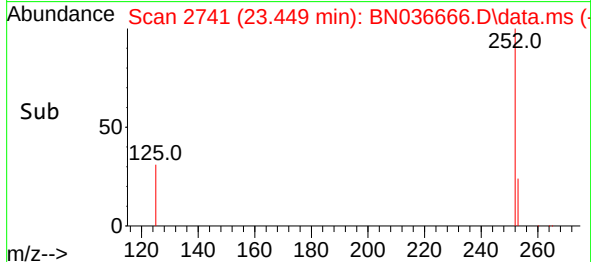
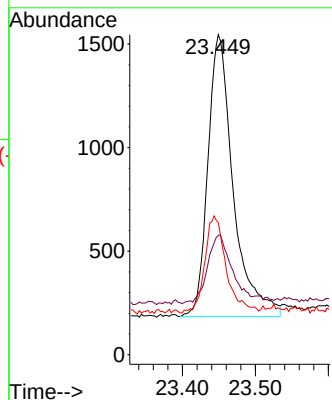
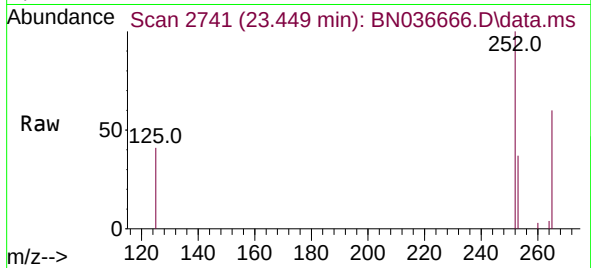




#39
Benzo(a)pyrene
Concen: 0.446 ng
RT: 23.449 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

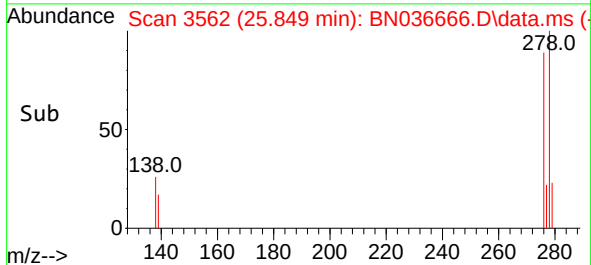
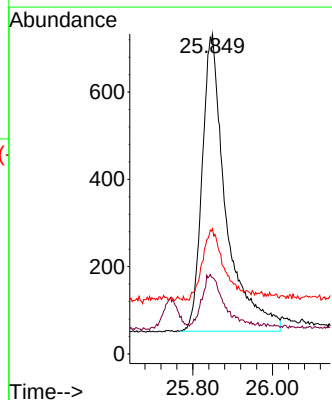
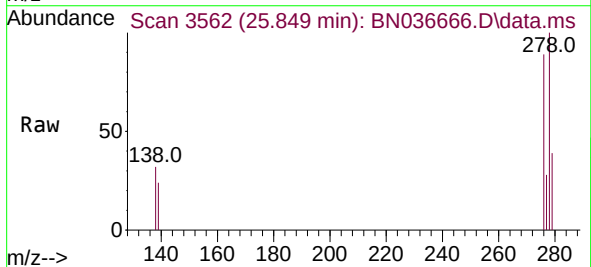
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

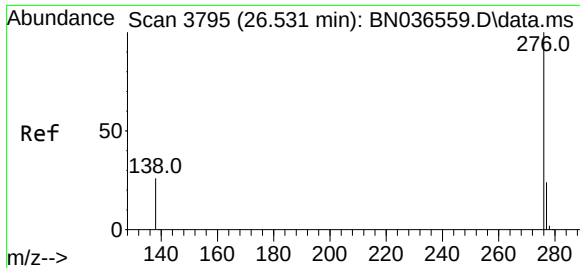
Tgt Ion:252 Resp: 3280
Ion Ratio Lower Upper
252 100
253 37.3 27.8 41.8
125 41.3 22.7 34.1#



#40
Dibenzo(a,h)anthracene
Concen: 0.419 ng
RT: 25.849 min Scan# 3562
Delta R.T. -0.006 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

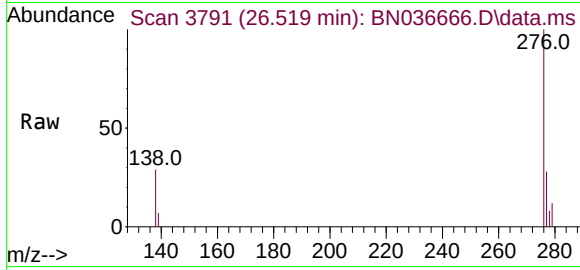
Tgt Ion:278 Resp: 2826
Ion Ratio Lower Upper
278 100
139 23.9 20.8 31.2
279 39.2 28.8 43.2



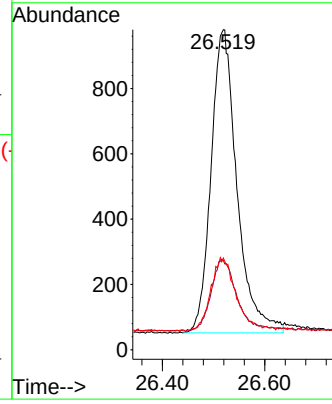
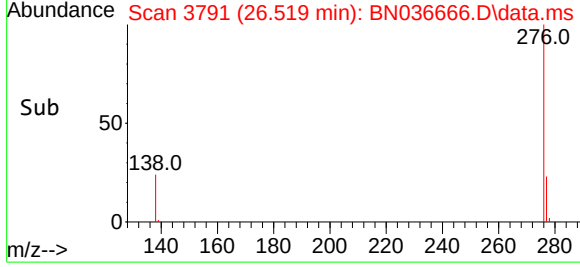


#41
Benzo(g,h,i)perylene
Concen: 0.423 ng
RT: 26.519 min Scan# 31
Delta R.T. -0.012 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:276 Resp: 3263
Ion Ratio Lower Upper
276 100
277 27.9 22.2 33.4
138 28.7 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
 Data File : BN036668.D
 Acq On : 17 Mar 2025 21:02
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Mar 18 00:55:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

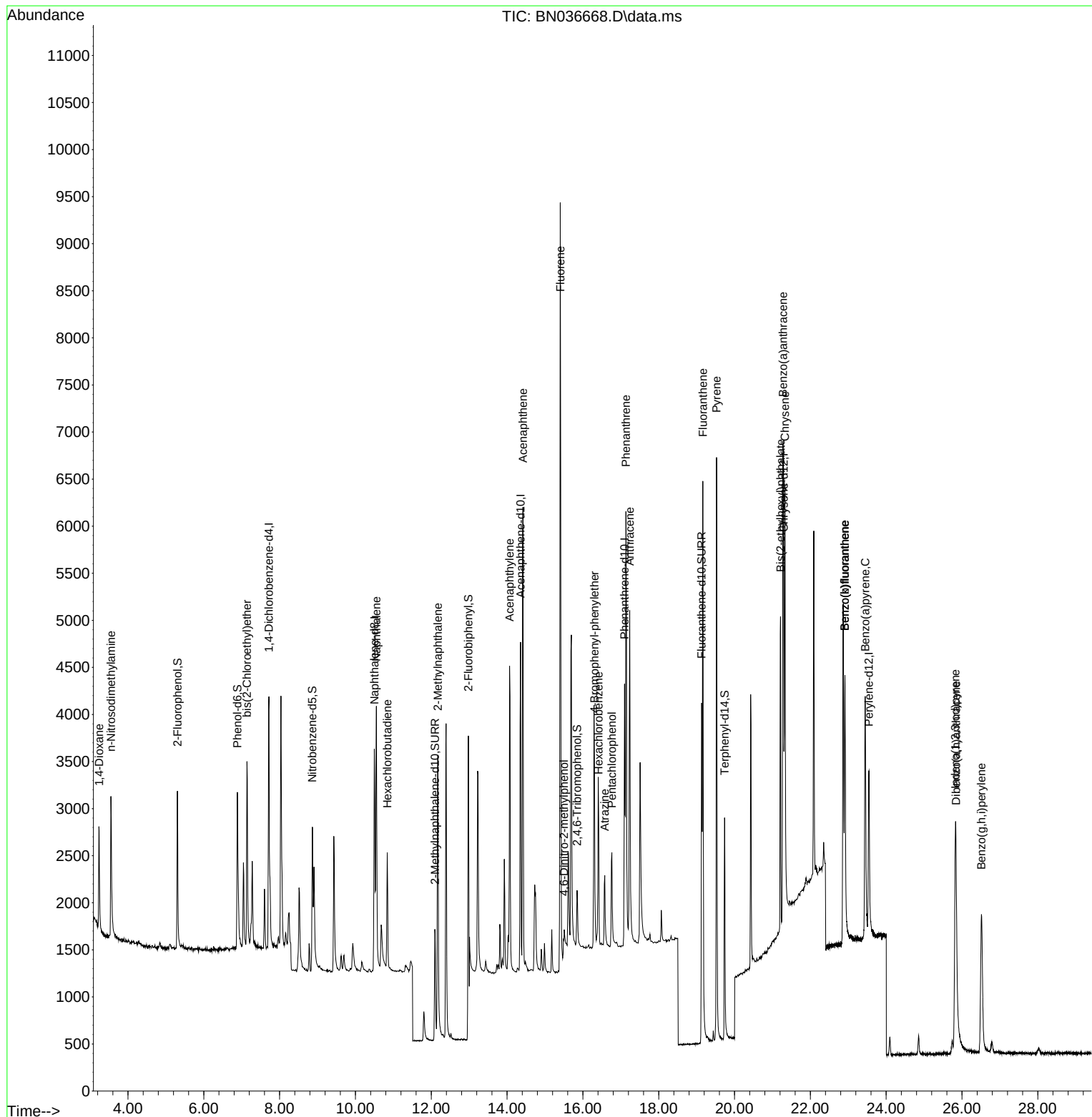
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1326	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	3375	0.400	ng	-0.01
13) Acenaphthene-d10	14.356	164	1969	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	3924	0.400	ng	-0.01
29) Chrysene-d12	21.295	240	2929	0.400	ng	0.00
35) Perylene-d12	23.543	264	2659	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	1236	0.400	ng	0.00
5) Phenol-d6	6.887	99	1530	0.401	ng	-0.01
8) Nitrobenzene-d5	8.865	82	1438	0.392	ng	-0.01
11) 2-Methylnaphthalene-d10	12.096	152	2025	0.403	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	378	0.423	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	4741	0.414	ng	0.00
27) Fluoranthene-d10	19.132	212	4416	0.439	ng	0.00
31) Terphenyl-d14	19.740	244	2835	0.404	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	647	0.440	ng	92
3) n-Nitrosodimethylamine	3.550	42	1474	0.495	ng	# 85
6) bis(2-Chloroethyl)ether	7.139	93	1549	0.393	ng	98
9) Naphthalene	10.552	128	4011	0.404	ng	98
10) Hexachlorobutadiene	10.840	225	968	0.414	ng	# 97
12) 2-Methylnaphthalene	12.172	142	2540	0.402	ng	95
16) Acenaphthylene	14.067	152	3862	0.416	ng	99
17) Acenaphthene	14.420	154	2516	0.414	ng	98
18) Fluorene	15.403	166	3484	0.423	ng	100
20) 4,6-Dinitro-2-methylph...	15.499	198	313	0.458	ng	86
21) 4-Bromophenyl-phenylether	16.305	248	1052	0.428	ng	# 77
22) Hexachlorobenzene	16.416	284	1271	0.428	ng	94
23) Atrazine	16.578	200	865	0.439	ng	95
24) Pentachlorophenol	16.764	266	643	0.475	ng	98
25) Phenanthrene	17.136	178	5152	0.438	ng	100
26) Anthracene	17.235	178	4534	0.427	ng	99
28) Fluoranthene	19.164	202	5895	0.446	ng	99
30) Pyrene	19.527	202	6066	0.424	ng	100
32) Benzo(a)anthracene	21.277	228	4223	0.415	ng	99
33) Chrysene	21.331	228	4938	0.444	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	3370	0.465	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.826	276	3878	0.404	ng	# 93
37) Benzo(b)fluoranthene	22.911	252	4385	0.453	ng	96
38) Benzo(k)fluoranthene	22.911	252	4385	0.432	ng	96
39) Benzo(a)pyrene	23.446	252	3730	0.458	ng	# 91
40) Dibenzo(a,h)anthracene	25.844	278	2967	0.397	ng	96
41) Benzo(g,h,i)perylene	26.513	276	3542	0.414	ng	99

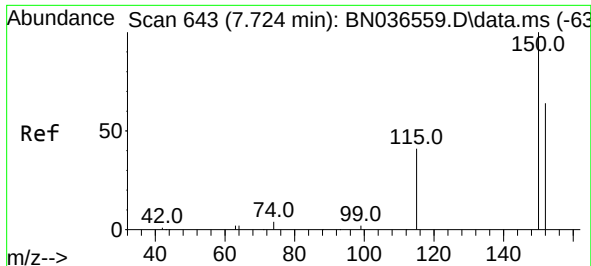
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036668.D
Acq On : 17 Mar 2025 21:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 18 00:55:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

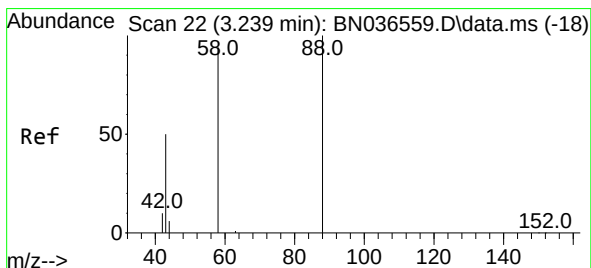
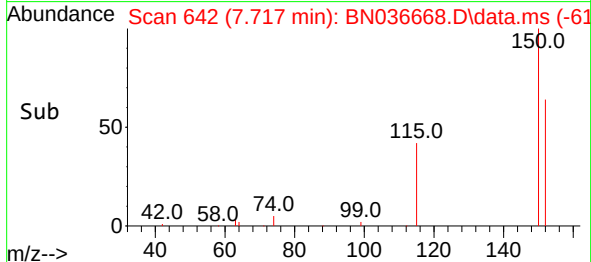
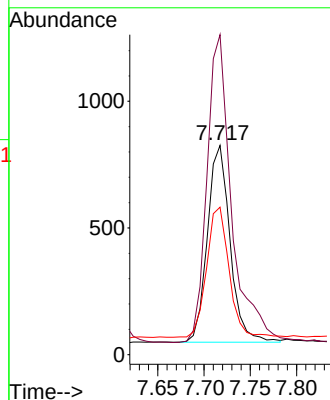
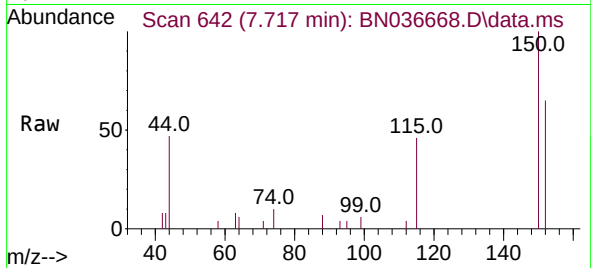




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

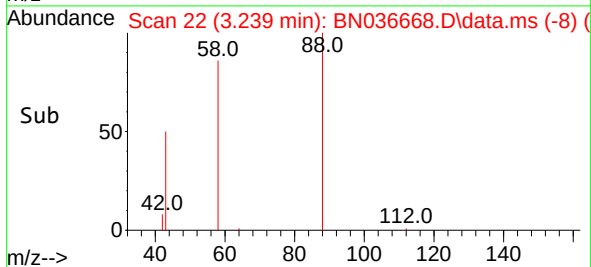
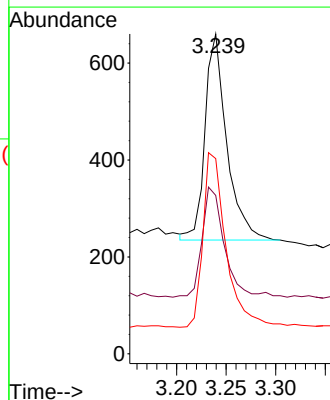
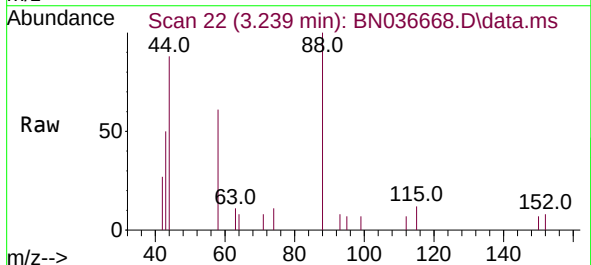
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

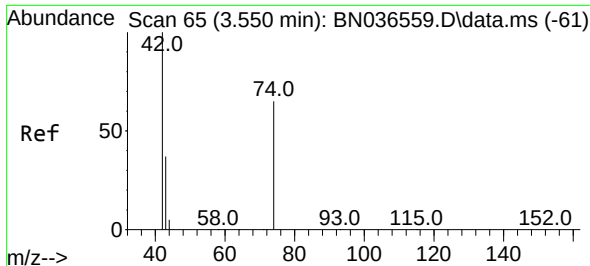
Tgt Ion:152 Resp: 1326
Ion Ratio Lower Upper
152 100
150 152.9 123.7 185.5
115 70.5 54.3 81.5



#2
1,4-Dioxane
Concen: 0.440 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion: 88 Resp: 647
Ion Ratio Lower Upper
88 100
43 54.7 37.8 56.8
58 89.8 67.4 101.2

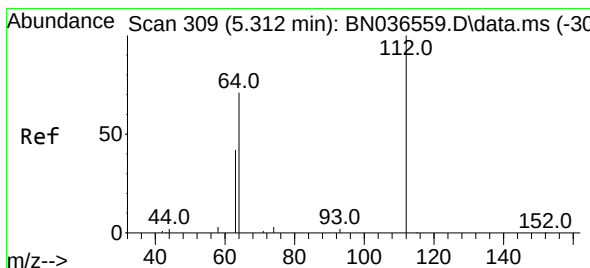
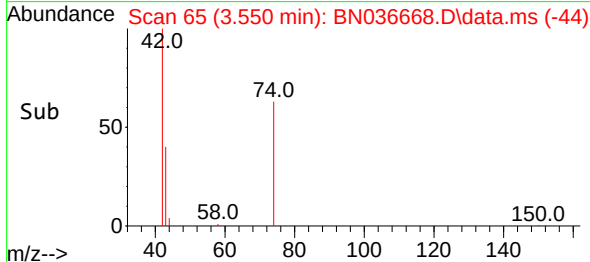
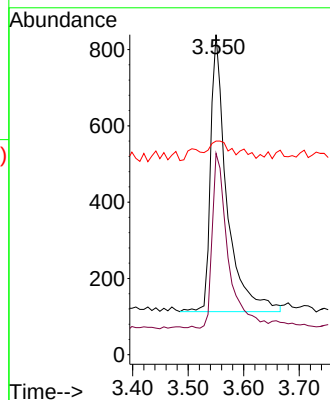
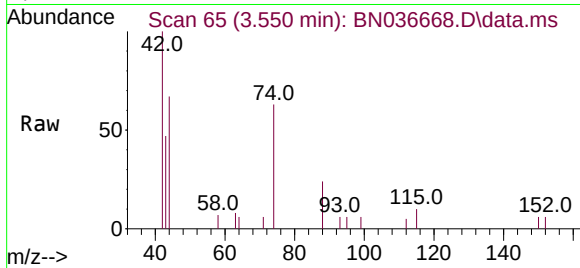




#3
 n-Nitrosodimethylamine
 Concen: 0.495 ng
 RT: 3.550 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: BN036668.D
 Acq: 17 Mar 2025 21:02

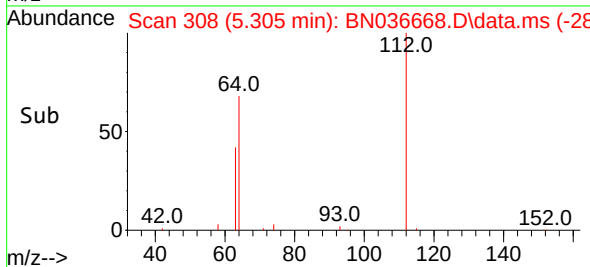
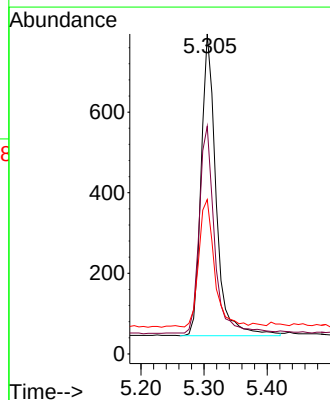
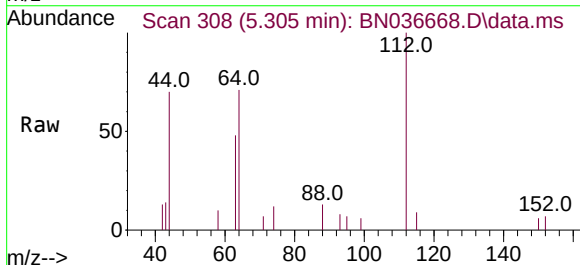
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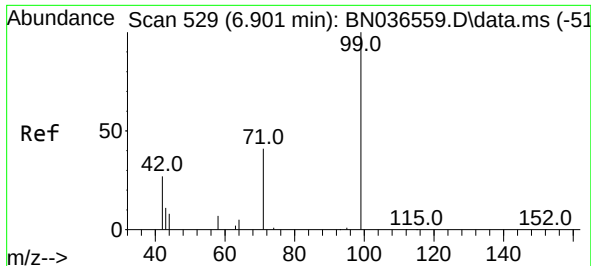
Tgt Ion: 42 Resp: 1474
 Ion Ratio Lower Upper
 42 100
 74 61.7 60.6 90.8
 44 5.8 6.3 9.5#



#4
 2-Fluorophenol
 Concen: 0.400 ng
 RT: 5.305 min Scan# 308
 Delta R.T. -0.007 min
 Lab File: BN036668.D
 Acq: 17 Mar 2025 21:02

Tgt Ion: 112 Resp: 1236
 Ion Ratio Lower Upper
 112 100
 64 69.2 53.1 79.7
 63 43.9 31.8 47.8

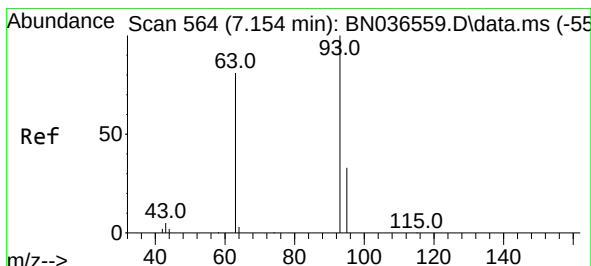
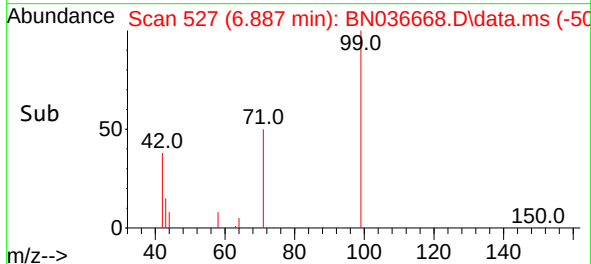
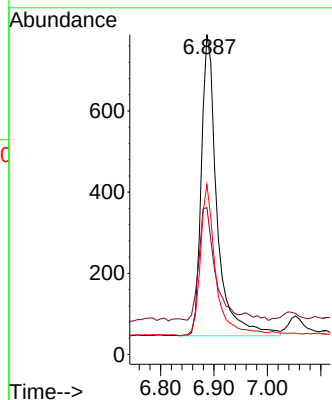
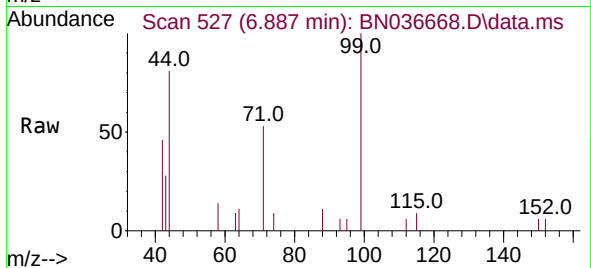




#5
Phenol-d6
Concen: 0.401 ng
RT: 6.887 min Scan# 51
Delta R.T. -0.014 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

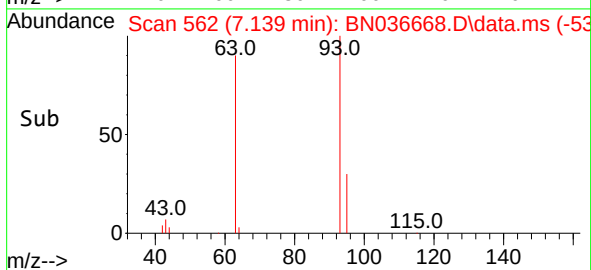
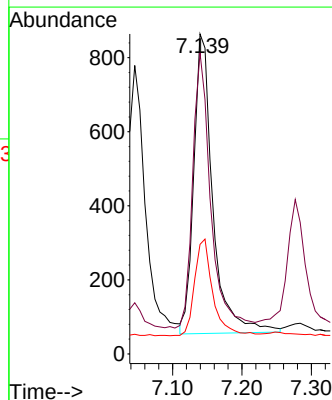
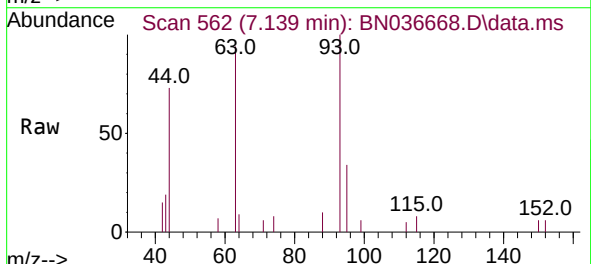
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

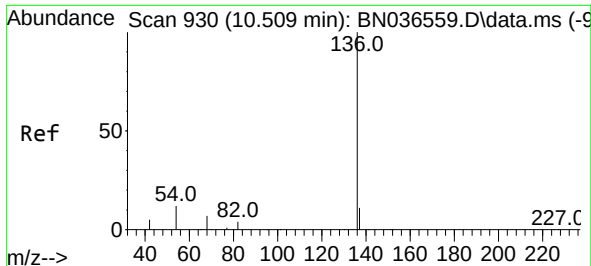
Tgt Ion: 99 Resp: 1530
Ion Ratio Lower Upper
99 100
42 37.6 26.5 39.7
71 48.5 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.393 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.014 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion: 93 Resp: 1549
Ion Ratio Lower Upper
93 100
63 85.9 67.7 101.5
95 31.0 25.6 38.4

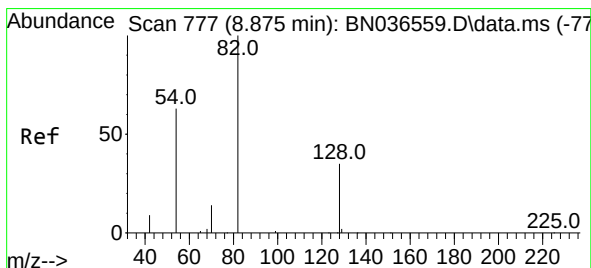
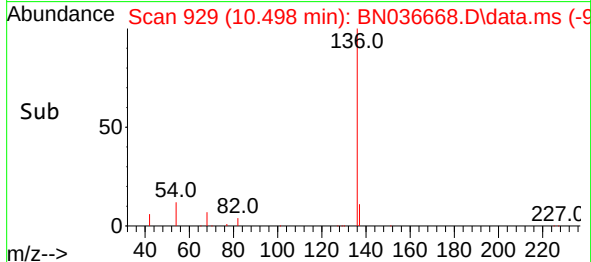
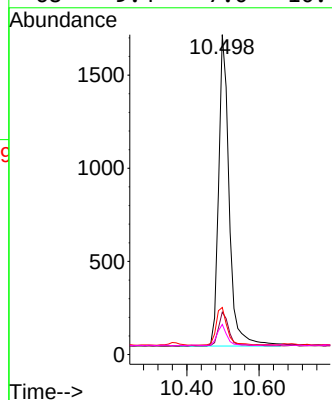
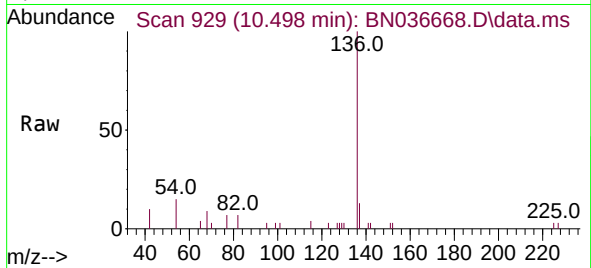




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

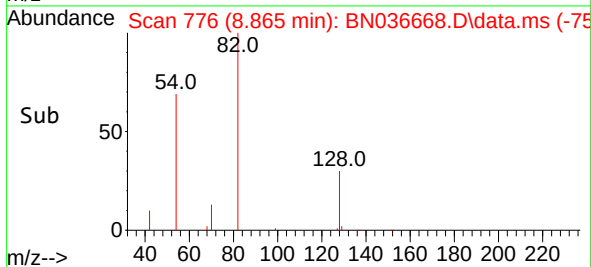
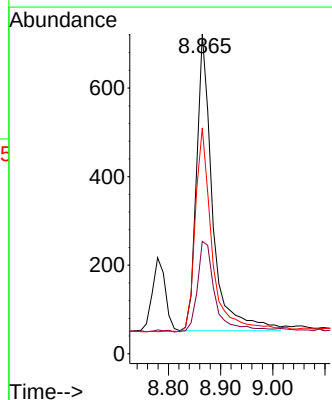
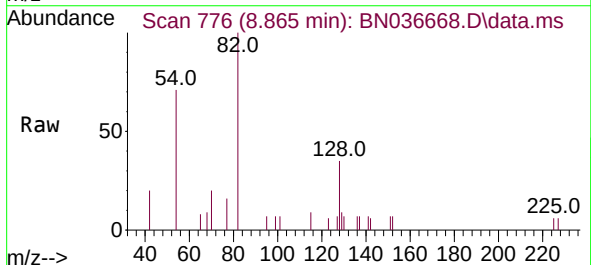
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

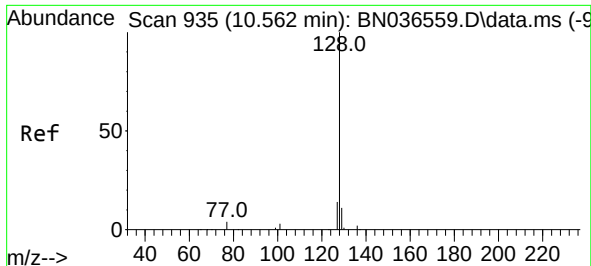
Tgt Ion:	136	Resp:	3375
Ion	Ratio	Lower	Upper
136	100		
137	13.3	10.3	15.5
54	14.7	11.5	17.3
68	9.4	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.392 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:	82	Resp:	1438
Ion	Ratio	Lower	Upper
82	100		
128	35.2	30.6	45.8
54	70.6	52.2	78.4

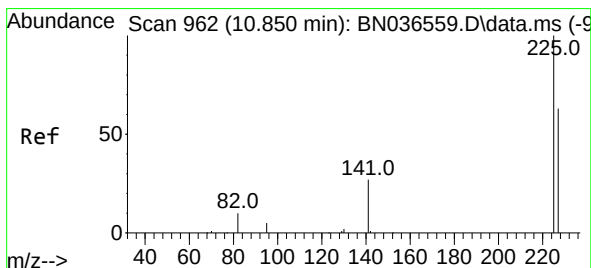
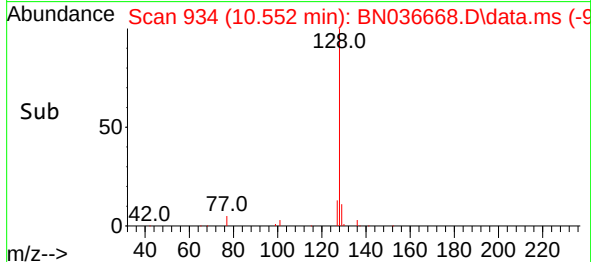
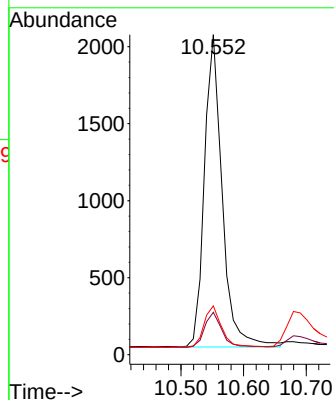
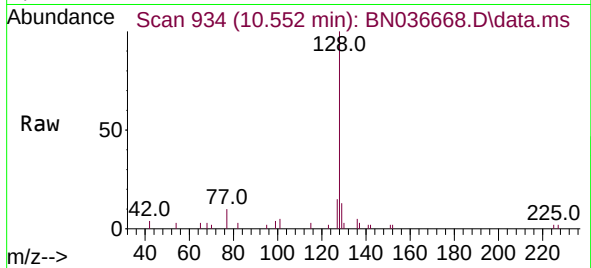




#9
Naphthalene
Concen: 0.404 ng
RT: 10.552 min Scan# 911
Delta R.T. -0.010 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

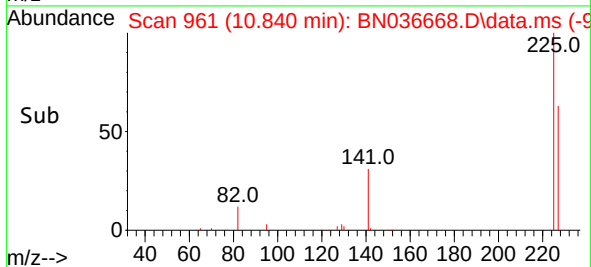
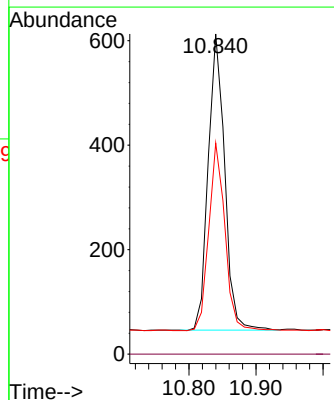
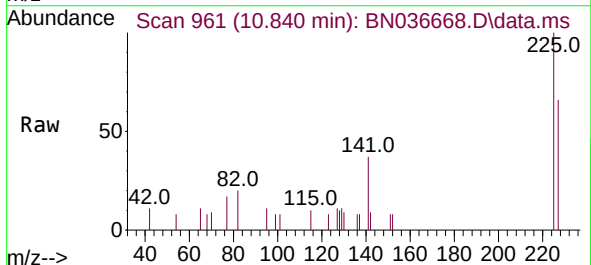
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

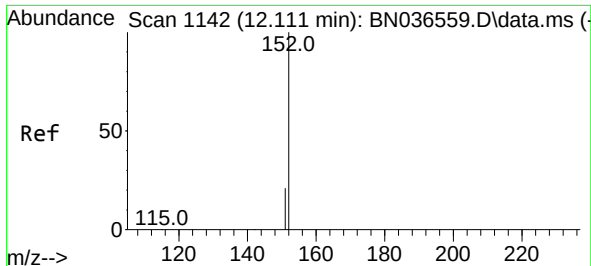
Tgt Ion:	128	Resp:	4011
Ion	Ratio	Lower	Upper
128	100		
129	13.3	9.8	14.6
127	15.3	11.8	17.8



#10
Hexachlorobutadiene
Concen: 0.414 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:	225	Resp:	968
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.7	51.8	77.8

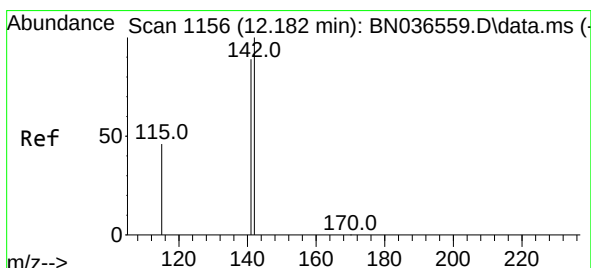
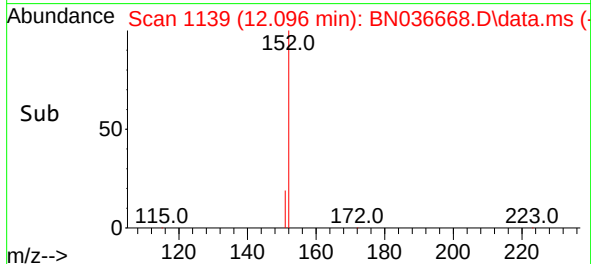
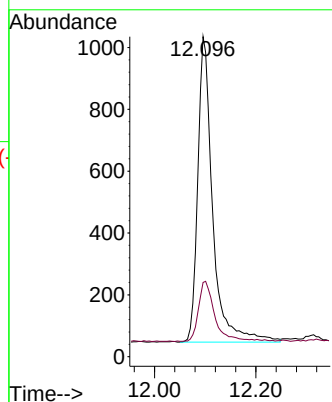
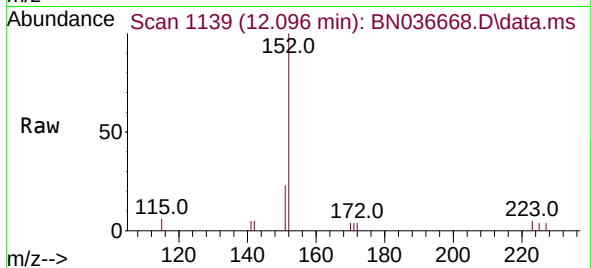




#11
2-Methylnaphthalene-d10
Concen: 0.403 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

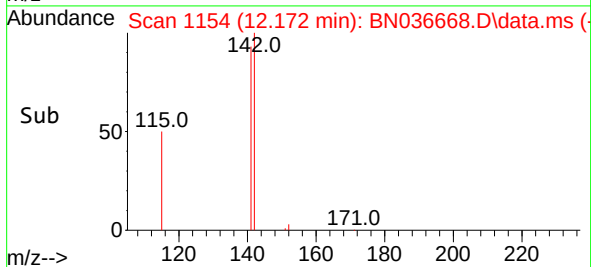
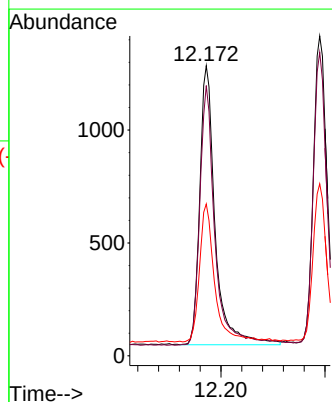
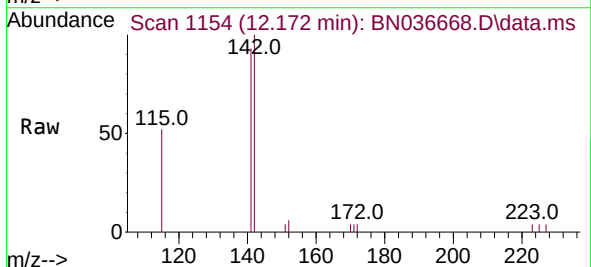
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

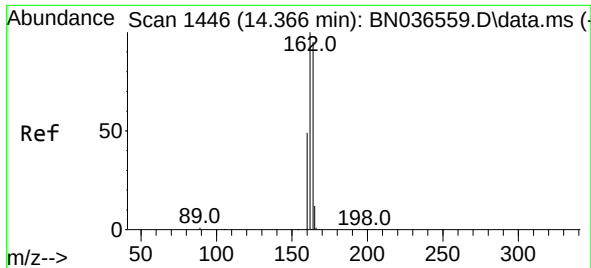
Tgt Ion:152 Resp: 2025
Ion Ratio Lower Upper
152 100
151 21.8 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.402 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:142 Resp: 2540
Ion Ratio Lower Upper
142 100
141 93.2 71.7 107.5
115 52.4 38.3 57.5

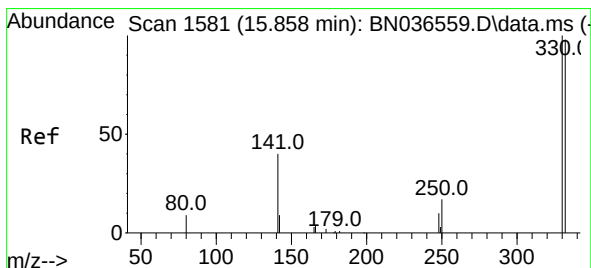
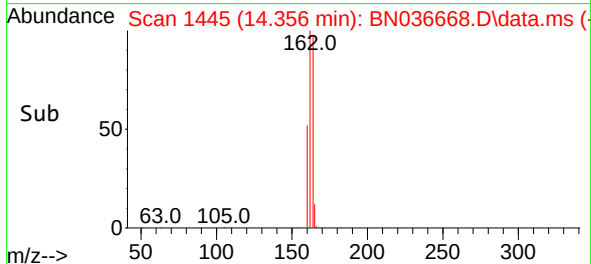
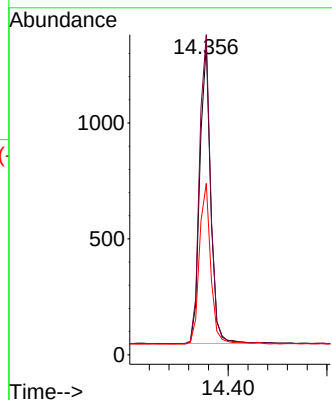
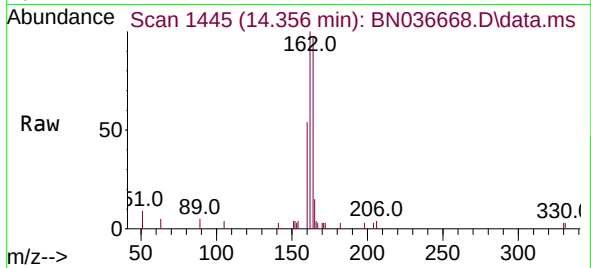




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1446
Delta R.T. -0.011 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

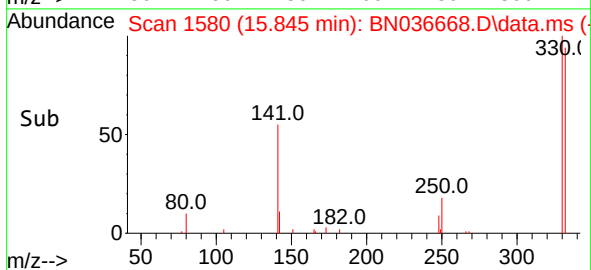
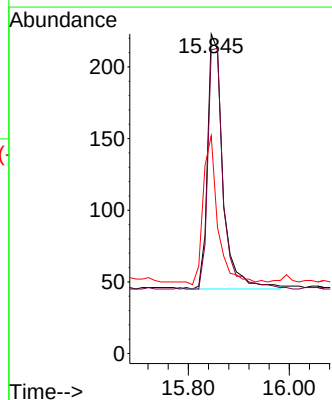
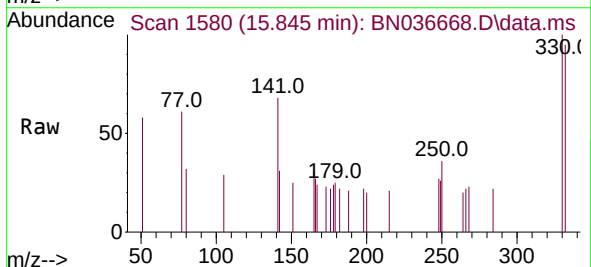
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

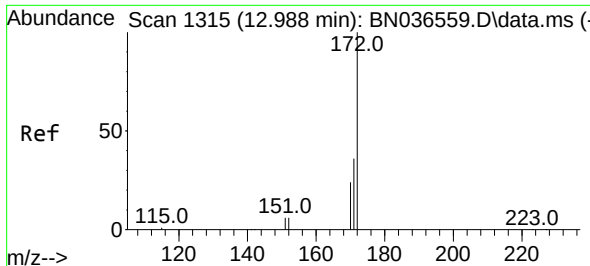
Tgt Ion:164 Resp: 1969
Ion Ratio Lower Upper
164 100
162 103.3 84.2 126.2
160 55.3 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.423 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:330 Resp: 378
Ion Ratio Lower Upper
330 100
332 94.7 75.2 112.8
141 52.1 43.4 65.2

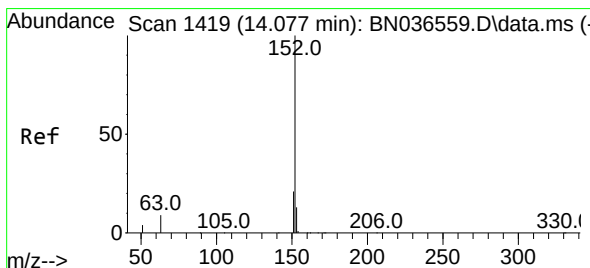
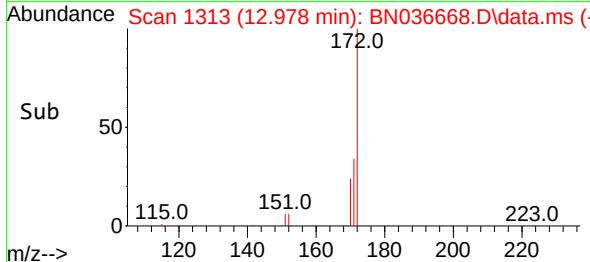
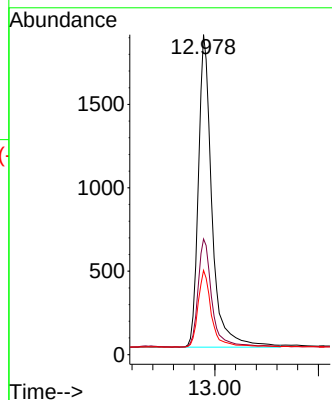
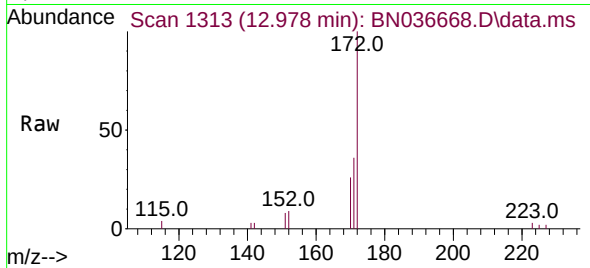




#15
2-Fluorobiphenyl
Concen: 0.414 ng
RT: 12.978 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

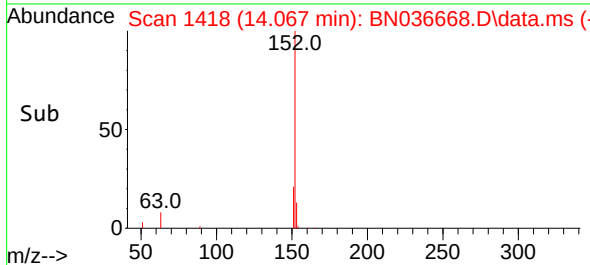
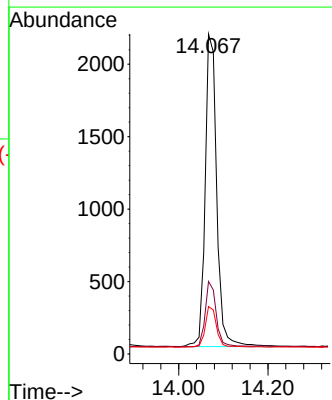
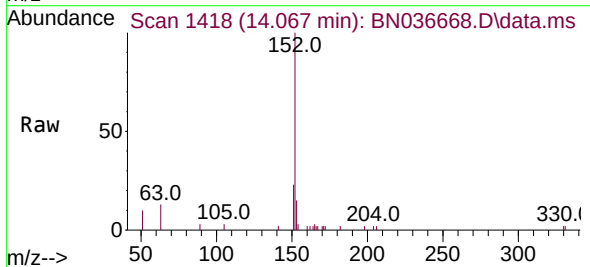
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

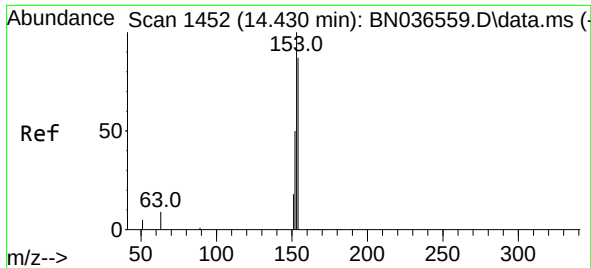
Tgt Ion:172	Resp:	4741
Ion Ratio	Lower	Upper
172	100	
171	36.1	29.5 44.3
170	26.3	20.2 30.4



#16
Acenaphthylene
Concen: 0.416 ng
RT: 14.067 min Scan# 1418
Delta R.T. -0.011 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:152	Resp:	3862
Ion Ratio	Lower	Upper
152	100	
151	19.7	16.2 24.4
153	12.8	10.6 15.8

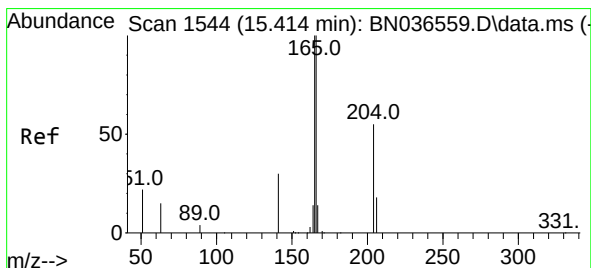
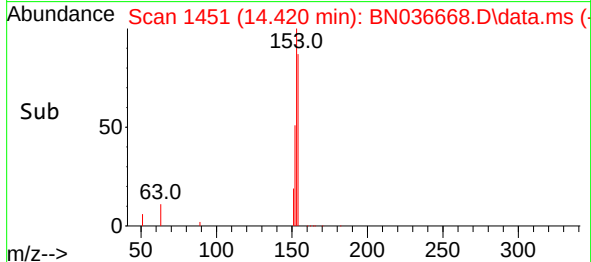
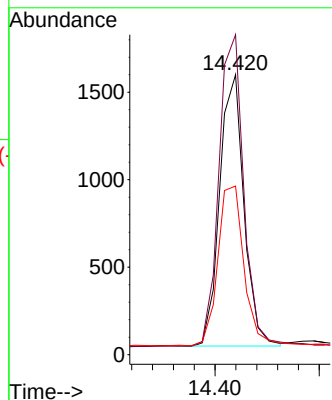
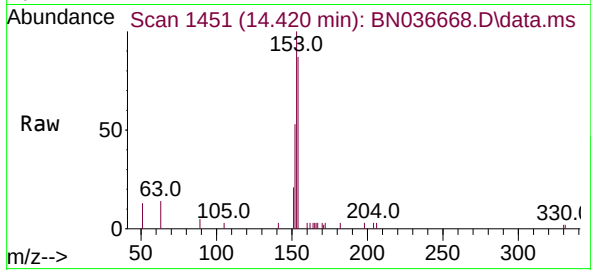




#17
Acenaphthene
Concen: 0.414 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

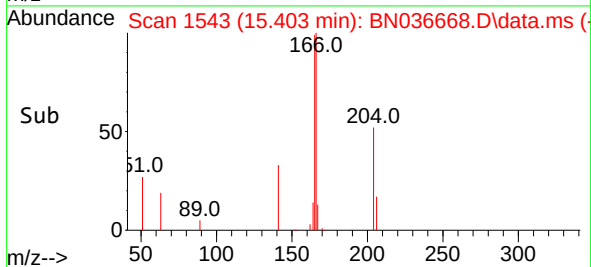
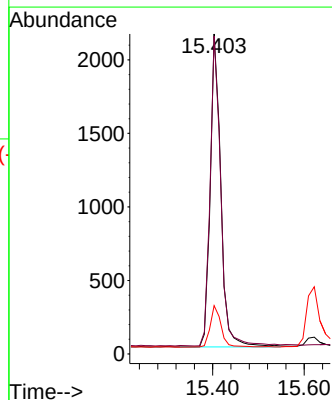
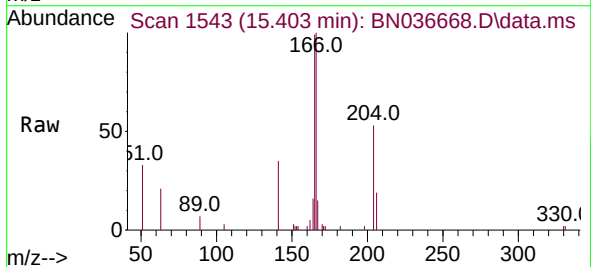
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

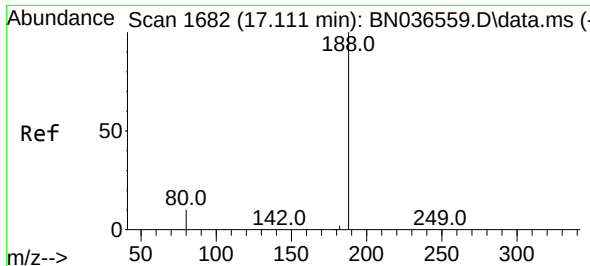
Tgt Ion:154 Resp: 2516
Ion Ratio Lower Upper
154 100
153 119.2 94.1 141.1
152 65.2 49.8 74.6



#18
Fluorene
Concen: 0.423 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.011 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:166 Resp: 3484
Ion Ratio Lower Upper
166 100
165 99.9 79.8 119.8
167 13.3 10.6 15.8

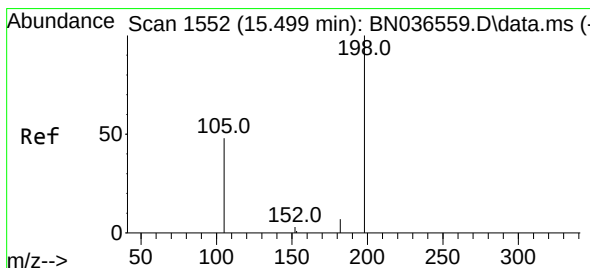
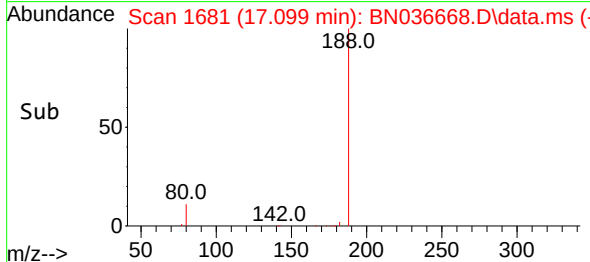
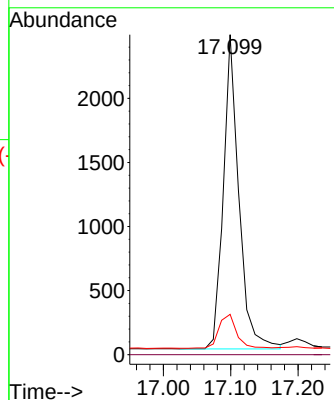
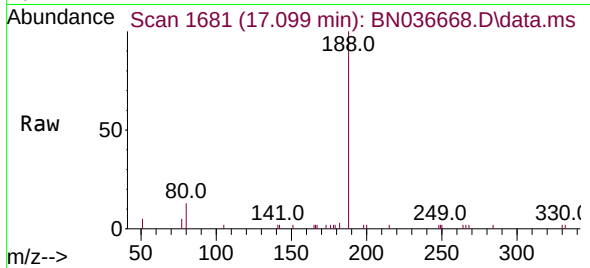




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

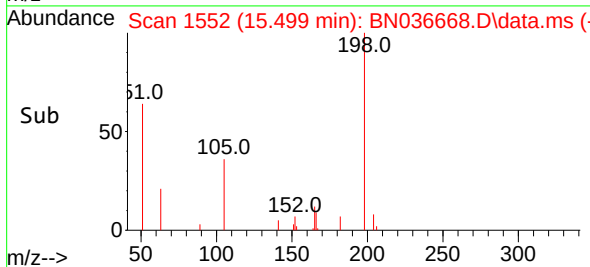
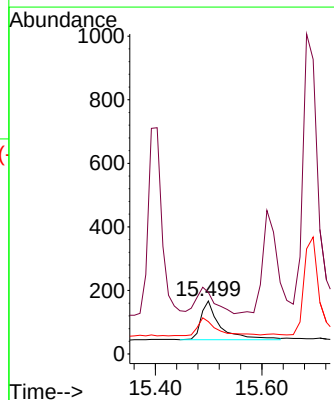
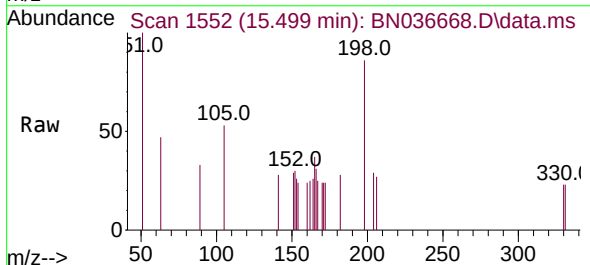
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

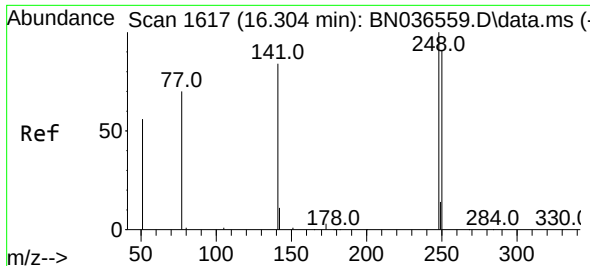
Tgt Ion:188	Resp:	3924
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	12.6	8.8



#20
4,6-Dinitro-2-methylphenol
Concen: 0.458 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:198	Resp:	313
Ion Ratio	Lower	Upper
198	100	
51	116.2	107.9
105	61.1	56.2

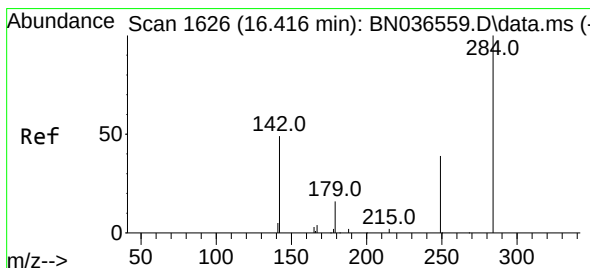
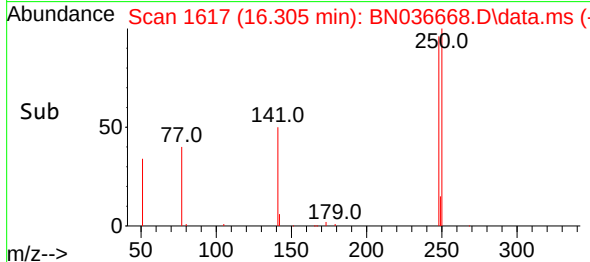
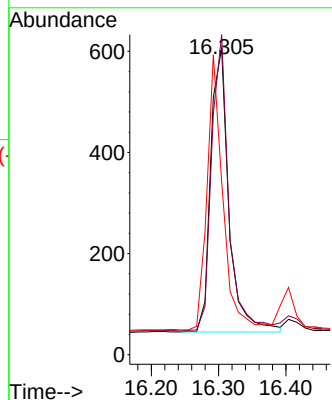
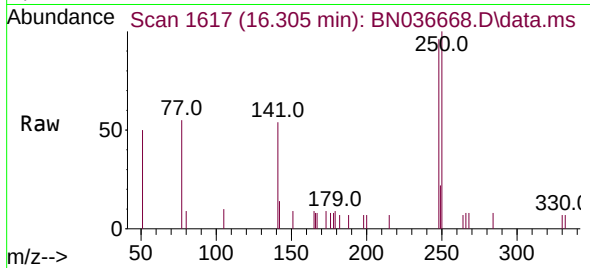




#21
4-Bromophenyl-phenylether
Concen: 0.428 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

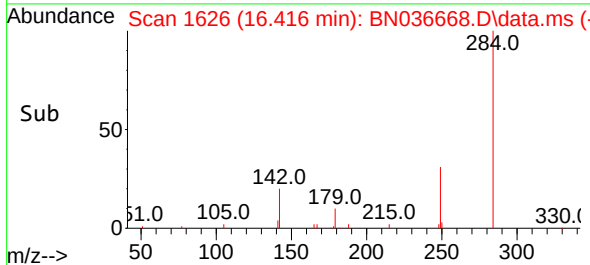
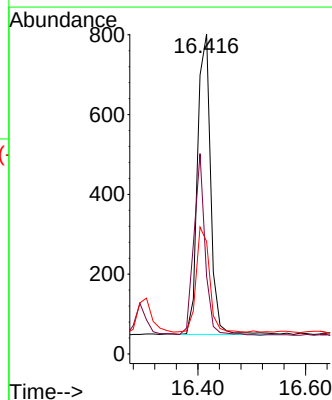
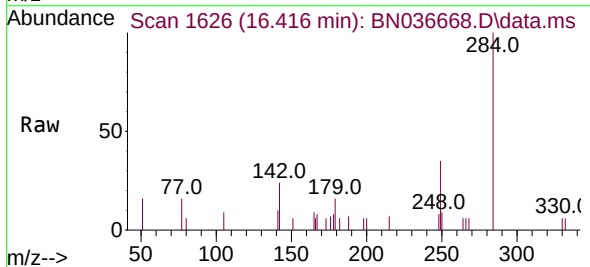
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

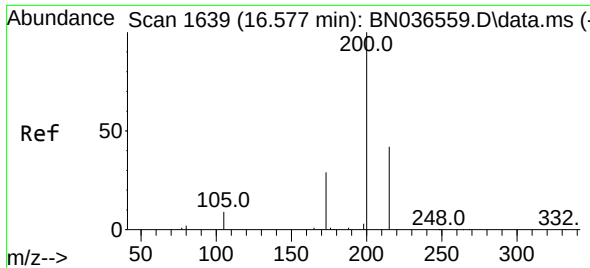
Tgt Ion:248 Resp: 1052
Ion Ratio Lower Upper
248 100
250 104.5 73.0 109.6
141 56.6 68.6 103.0#



#22
Hexachlorobenzene
Concen: 0.428 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:284 Resp: 1271
Ion Ratio Lower Upper
284 100
142 52.7 37.0 55.4
249 35.7 28.1 42.1

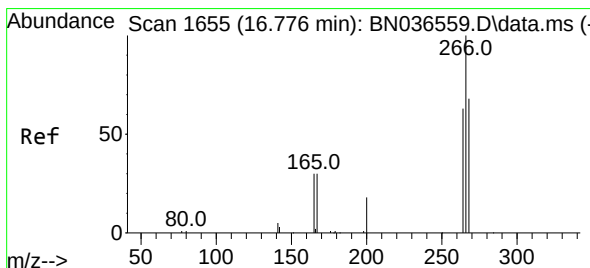
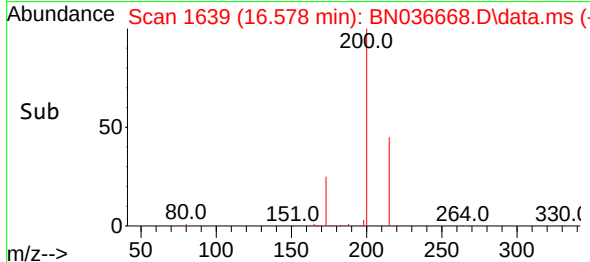
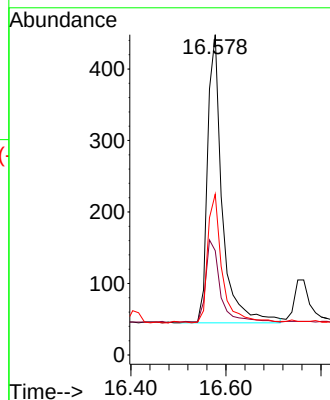
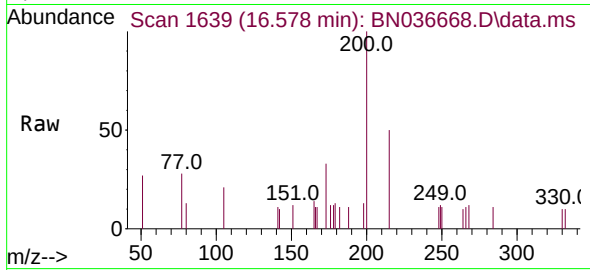




#23
Atrazine
Concen: 0.439 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

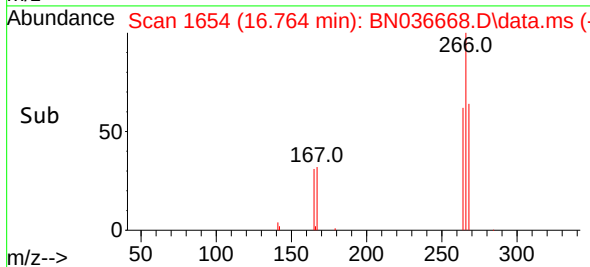
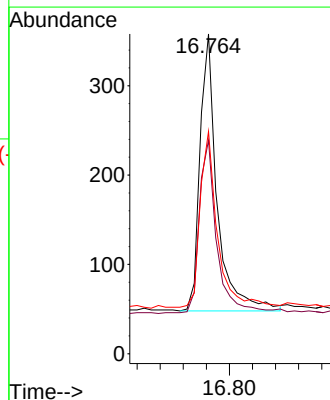
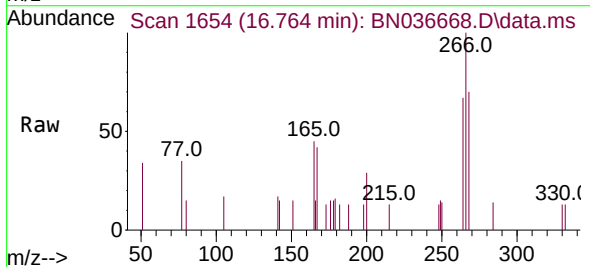
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

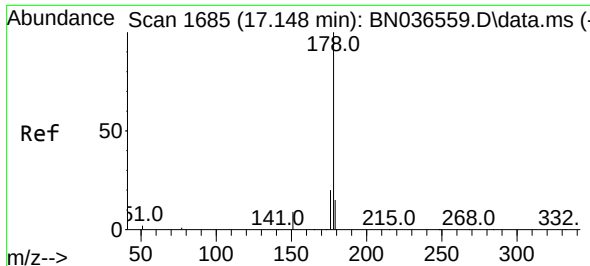
Tgt Ion:	200	Resp:	865
Ion Ratio	Lower	Upper	
200	100		
173	32.6	27.3	40.9
215	50.2	36.8	55.2



#24
Pentachlorophenol
Concen: 0.475 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:	266	Resp:	643
Ion Ratio	Lower	Upper	
266	100		
264	64.7	49.6	74.4
268	63.9	50.9	76.3

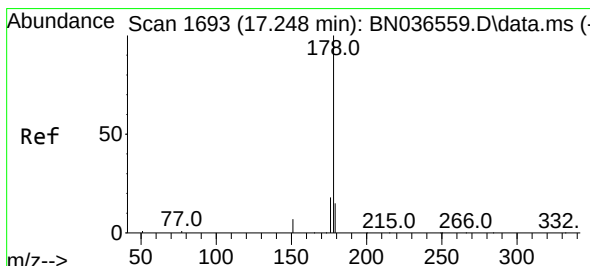
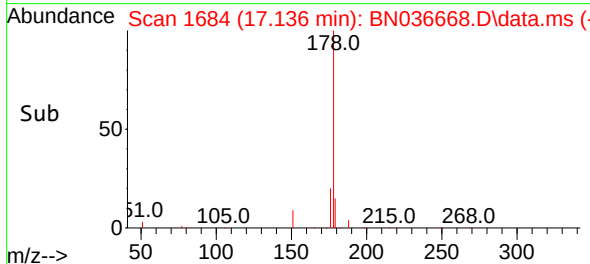
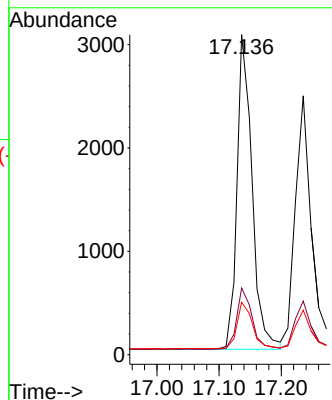
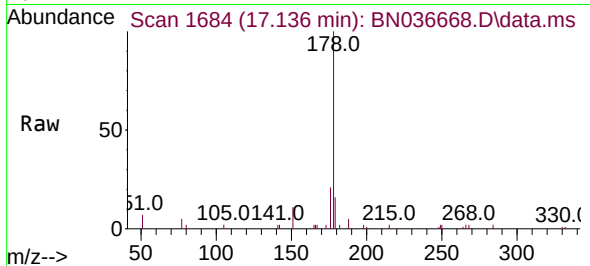




#25
Phenanthrene
Concen: 0.438 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

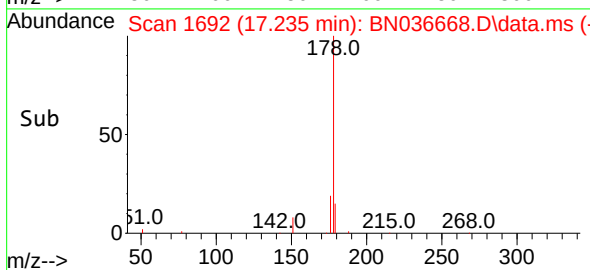
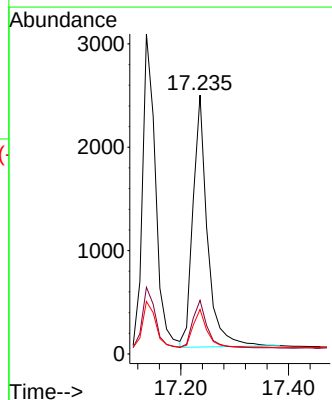
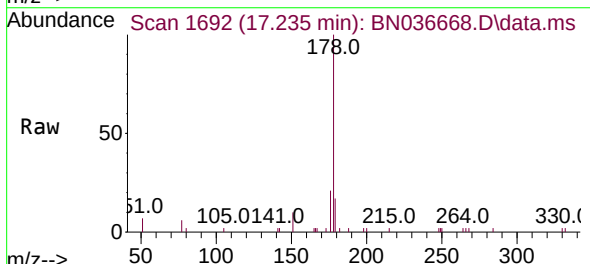
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

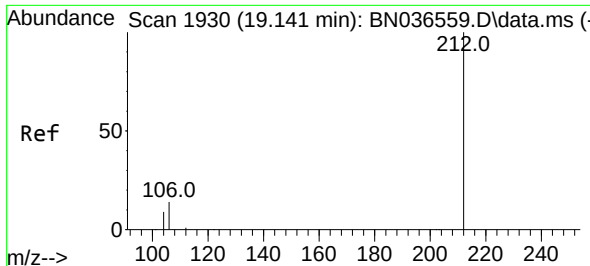
Tgt Ion:178 Resp: 5152
Ion Ratio Lower Upper
178 100
176 19.7 15.9 23.9
179 15.0 12.2 18.4



#26
Anthracene
Concen: 0.427 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:178 Resp: 4534
Ion Ratio Lower Upper
178 100
176 19.6 15.4 23.2
179 14.9 12.6 18.8

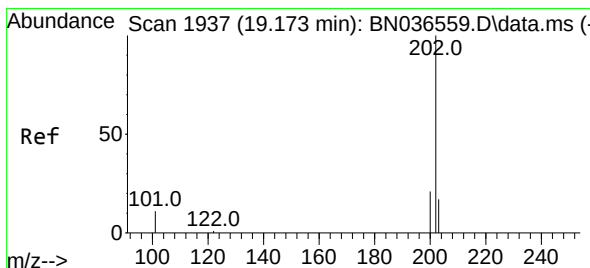
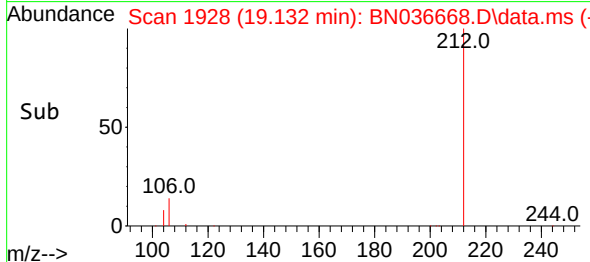
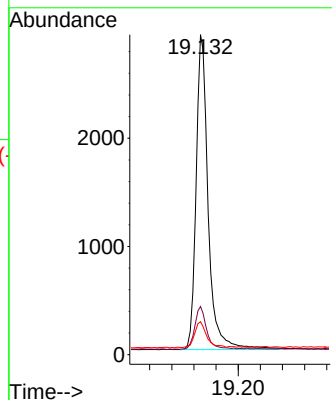
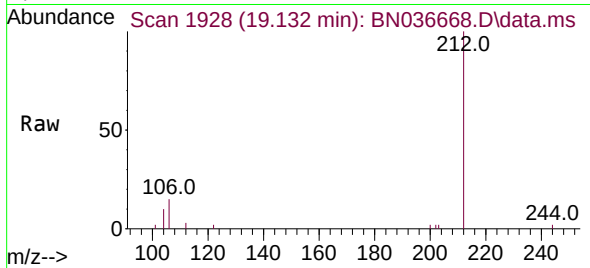




#27
Fluoranthene-d10
Concen: 0.439 ng
RT: 19.132 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

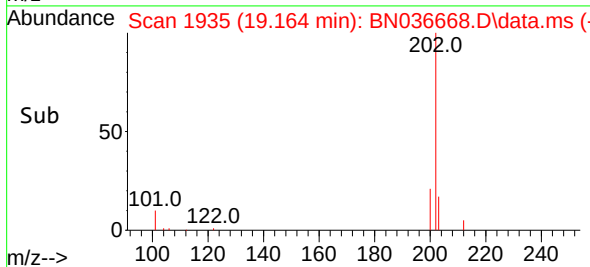
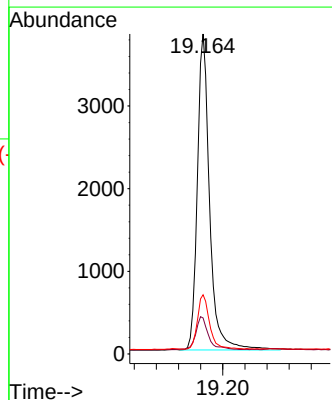
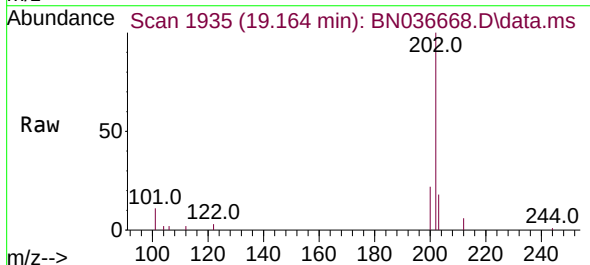
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

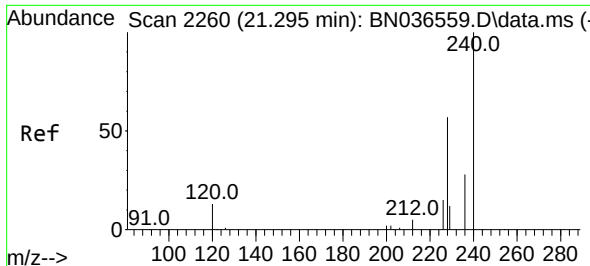
Tgt Ion:212 Resp: 4416
Ion Ratio Lower Upper
212 100
106 13.4 11.8 17.6
104 8.0 7.3 10.9



#28
Fluoranthene
Concen: 0.446 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:202 Resp: 5895
Ion Ratio Lower Upper
202 100
101 10.6 9.4 14.0
203 16.9 13.5 20.3

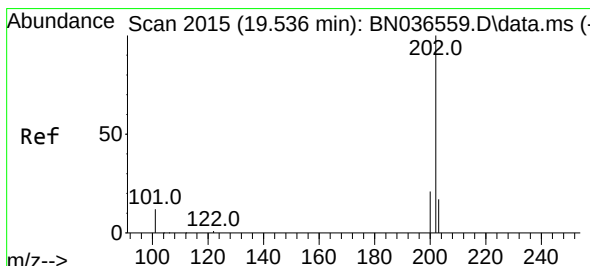
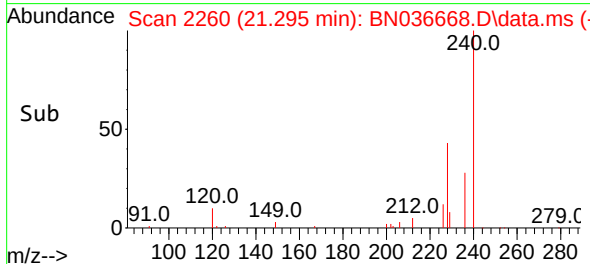
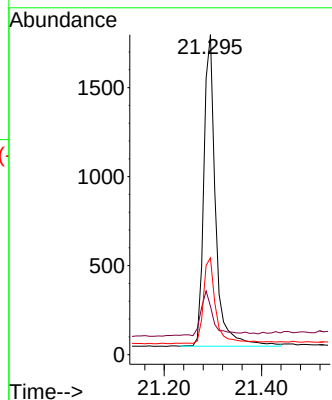
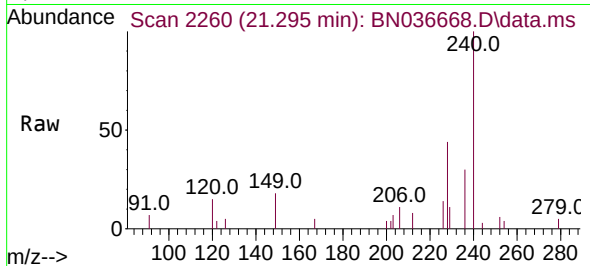




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

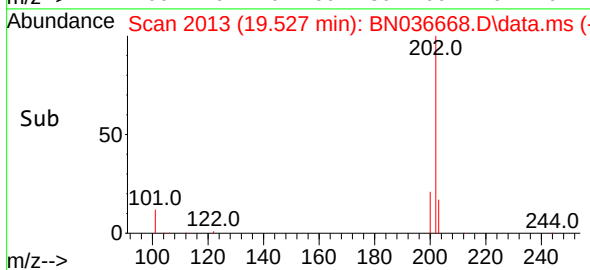
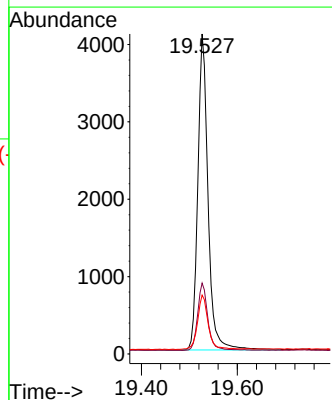
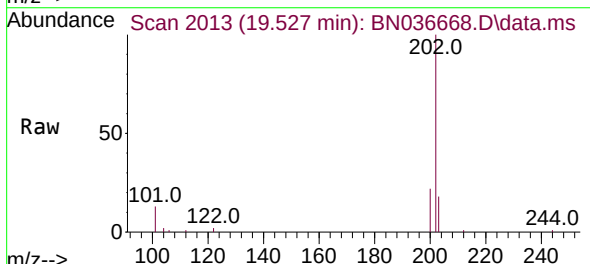
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

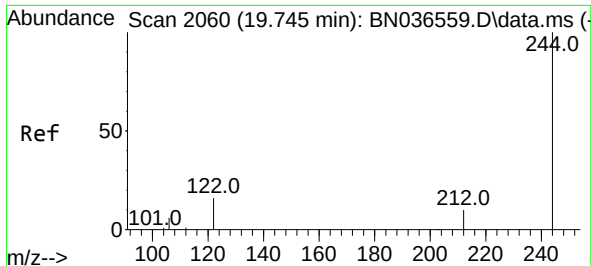
Tgt Ion	Ratio	Lower	Upper
240	100		
120	15.1	14.6	22.0
236	30.3	24.1	36.1



#30
Pyrene
Concen: 0.424 ng
RT: 19.527 min Scan# 2013
Delta R.T. -0.009 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.9	14.1	21.1

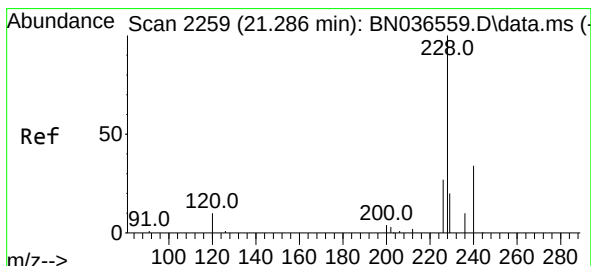
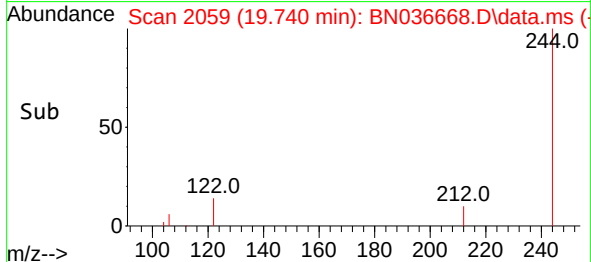
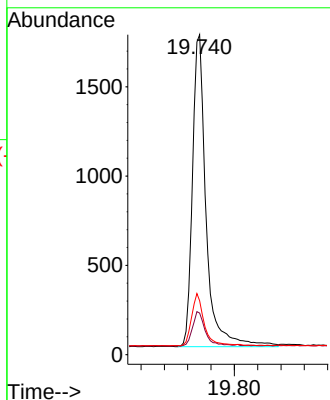
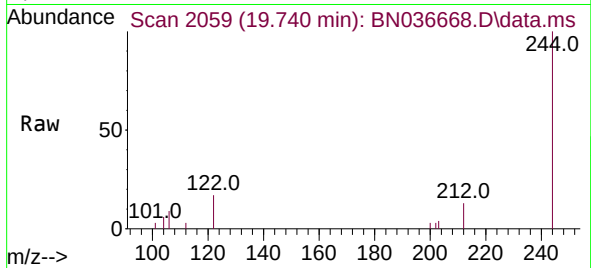




#31
 Terphenyl-d14
 Concen: 0.404 ng
 RT: 19.740 min Scan# 2060
 Delta R.T. -0.004 min
 Lab File: BN036668.D
 Acq: 17 Mar 2025 21:02

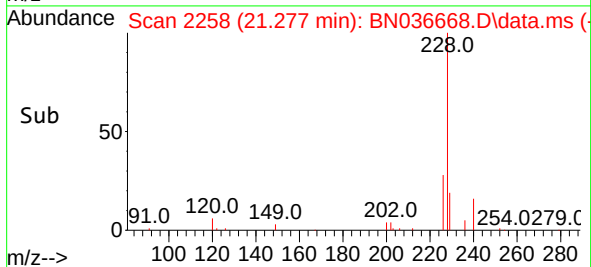
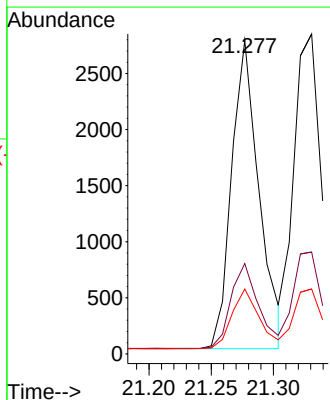
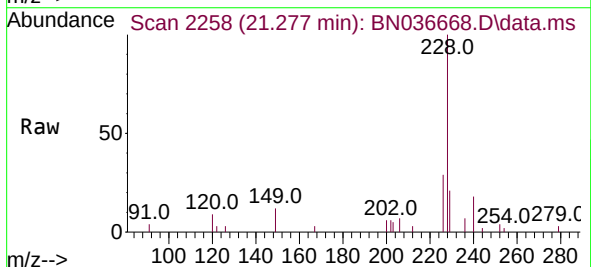
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

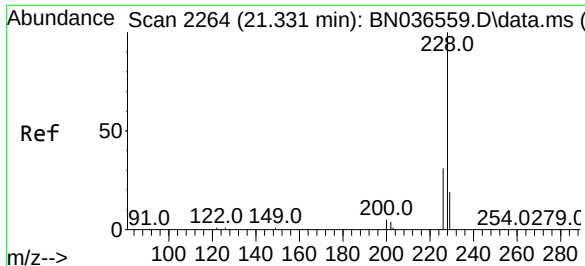
Tgt Ion:244 Resp: 2835
 Ion Ratio Lower Upper
 244 100
 212 13.0 9.6 14.4
 122 16.9 13.9 20.9



#32
 Benzo(a)anthracene
 Concen: 0.415 ng
 RT: 21.277 min Scan# 2258
 Delta R.T. -0.009 min
 Lab File: BN036668.D
 Acq: 17 Mar 2025 21:02

Tgt Ion:228 Resp: 4223
 Ion Ratio Lower Upper
 228 100
 226 28.8 22.5 33.7
 229 20.7 16.6 25.0

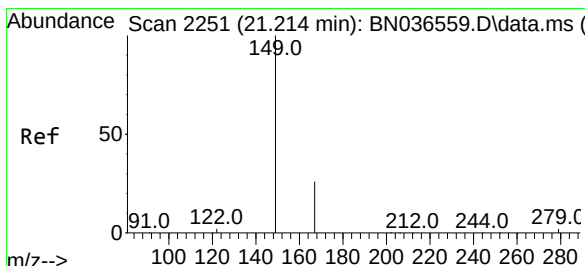
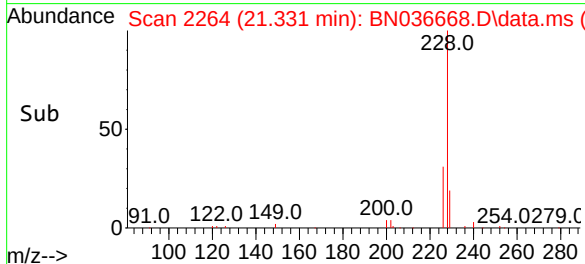
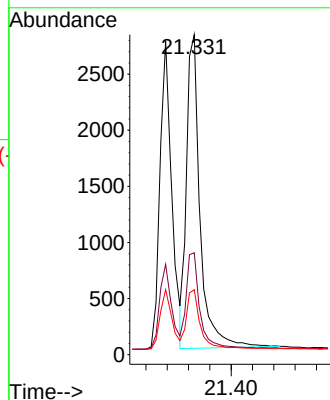
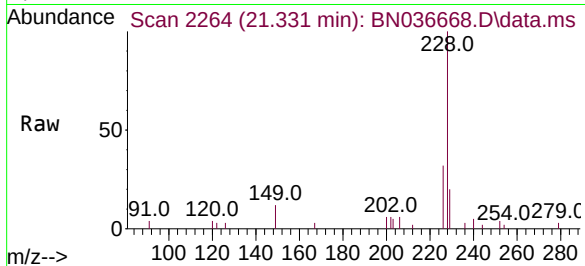




#33
 Chrysene
 Concen: 0.444 ng
 RT: 21.331 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN036668.D
 Acq: 17 Mar 2025 21:02

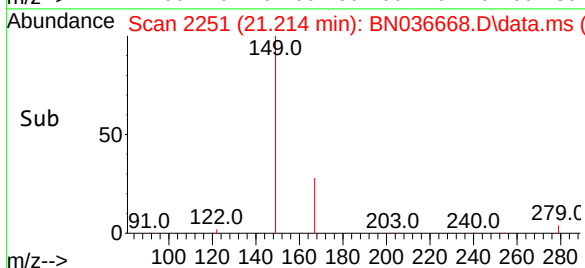
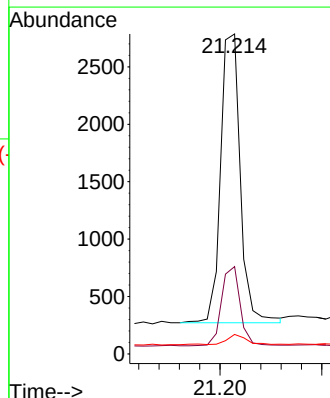
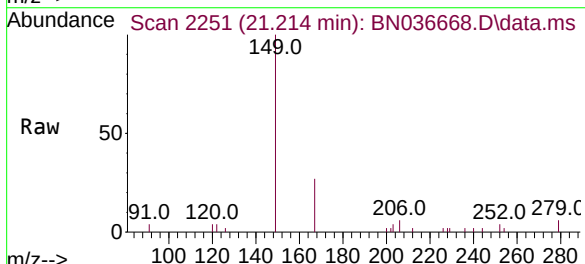
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

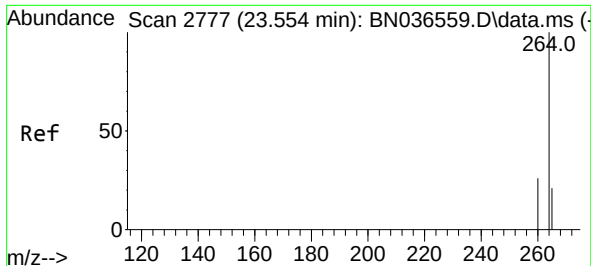
Tgt Ion:	228	Resp:	4938
Ion Ratio	Lower	Upper	
228	100		
226	31.8	25.3	37.9
229	20.3	15.8	23.8



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.465 ng
 RT: 21.214 min Scan# 2251
 Delta R.T. 0.000 min
 Lab File: BN036668.D
 Acq: 17 Mar 2025 21:02

Tgt Ion:	149	Resp:	3370
Ion Ratio	Lower	Upper	
149	100		
167	26.1	20.7	31.1
279	3.5	3.6	5.4

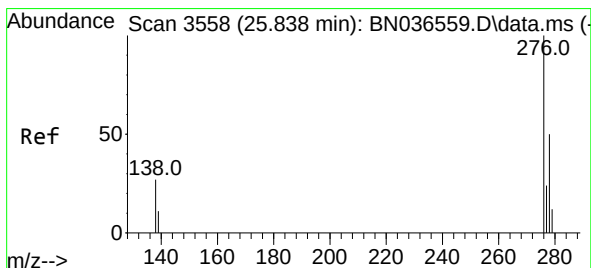
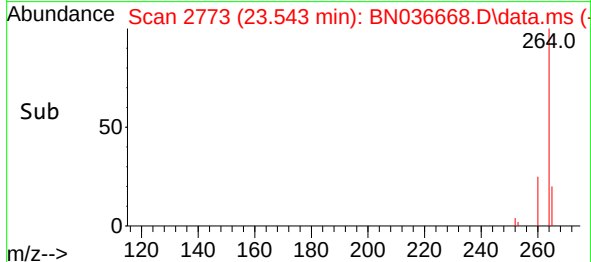
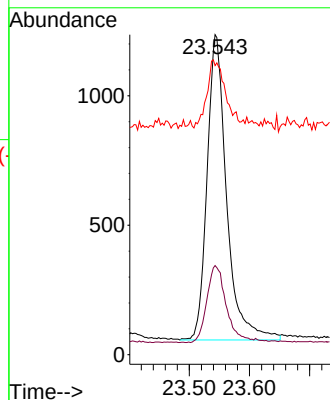
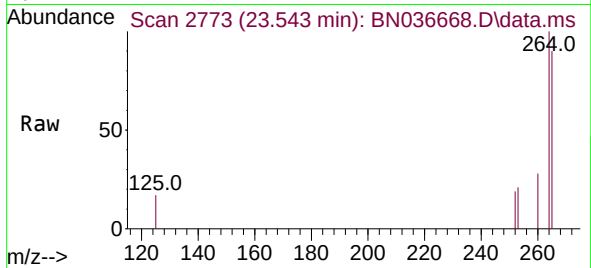




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.543 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

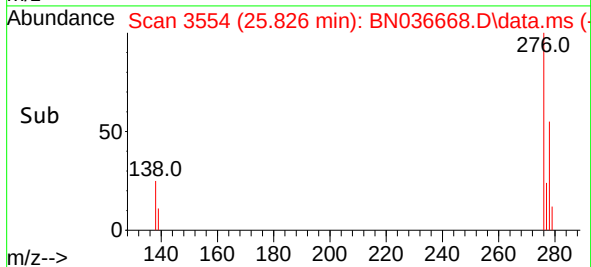
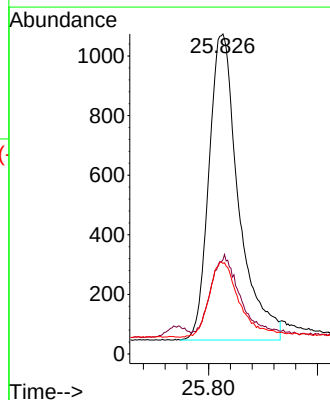
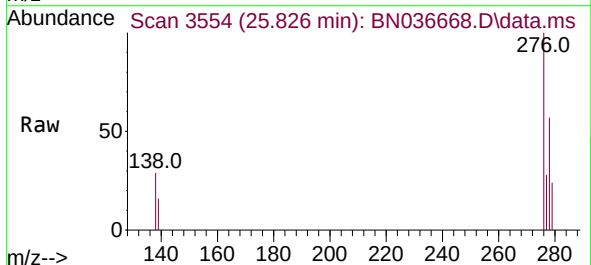
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

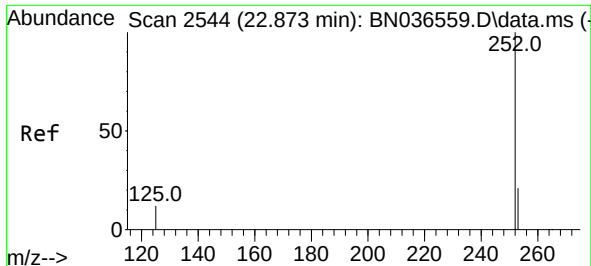
Tgt Ion:264 Resp: 2659
Ion Ratio Lower Upper
264 100
260 27.8 22.6 33.8
265 90.4 88.1 132.1



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.404 ng
RT: 25.826 min Scan# 3554
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:276 Resp: 3878
Ion Ratio Lower Upper
276 100
138 22.7 23.4 35.2#
277 25.7 20.0 30.0

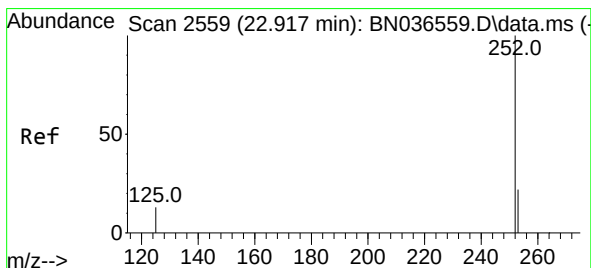
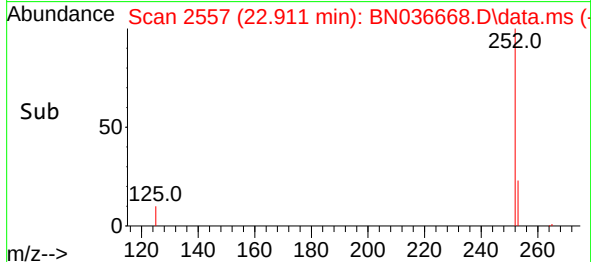
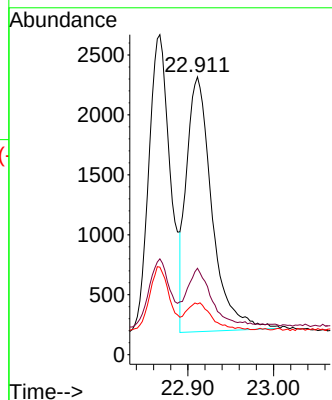
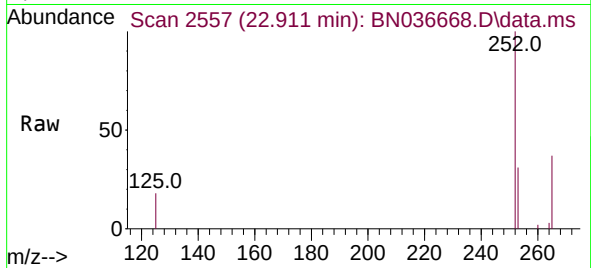




#37
Benzo(b)fluoranthene
Concen: 0.453 ng
RT: 22.911 min Scan# 2557
Delta R.T. 0.038 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

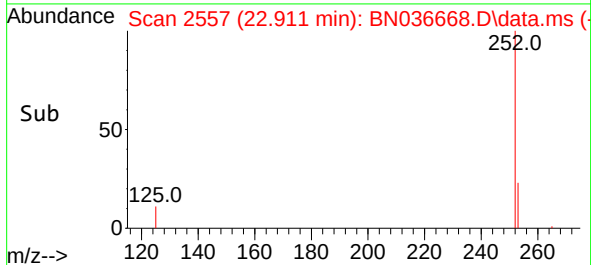
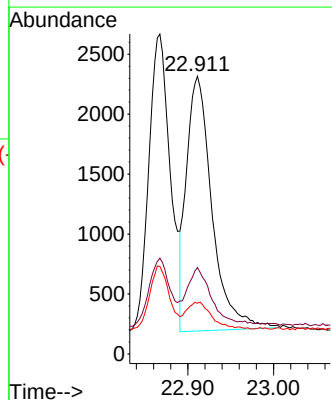
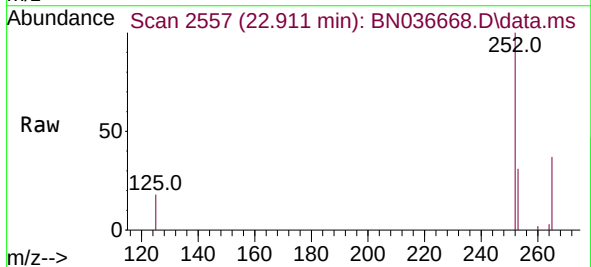
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

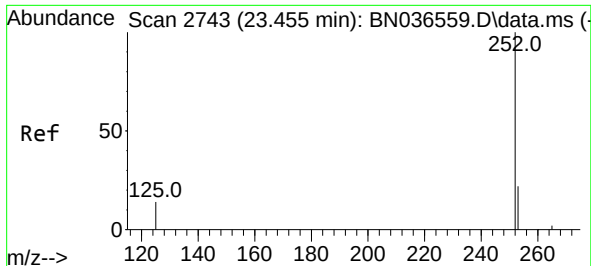
Tgt Ion:	252	Resp:	4385
Ion Ratio	Lower	Upper	
252	100		
253	31.1	23.9	35.9
125	18.3	17.4	26.2



#38
Benzo(k)fluoranthene
Concen: 0.432 ng
RT: 22.911 min Scan# 2557
Delta R.T. -0.006 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:	252	Resp:	4385
Ion Ratio	Lower	Upper	
252	100		
253	31.1	24.6	36.8
125	18.3	17.8	26.8





#39

Benzo(a)pyrene

Concen: 0.458 ng

RT: 23.446 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036668.D

Acq: 17 Mar 2025 21:02

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

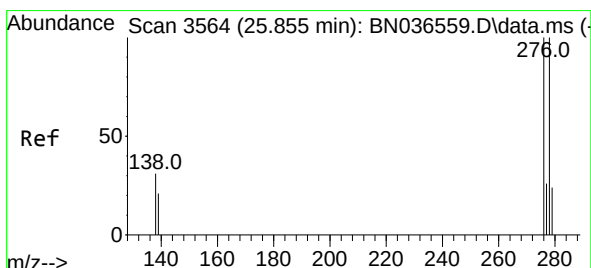
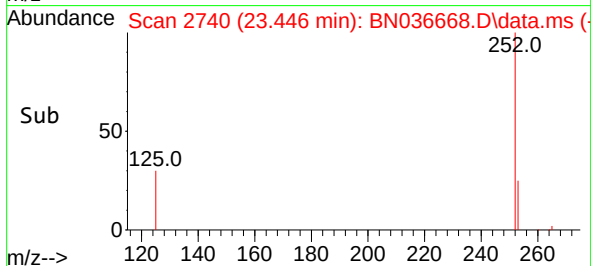
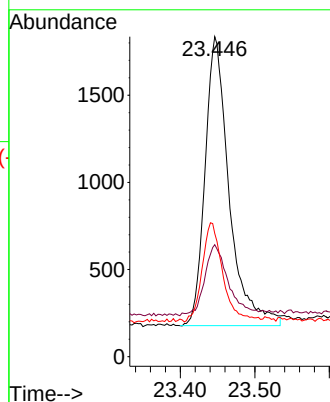
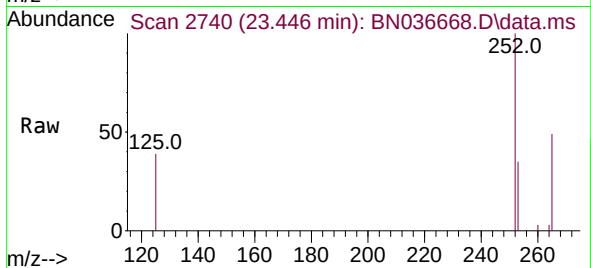
Tgt Ion:252 Resp: 3730

Ion Ratio Lower Upper

252 100

253 35.0 27.8 41.8

125 38.5 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.397 ng

RT: 25.844 min Scan# 3560

Delta R.T. -0.012 min

Lab File: BN036668.D

Acq: 17 Mar 2025 21:02

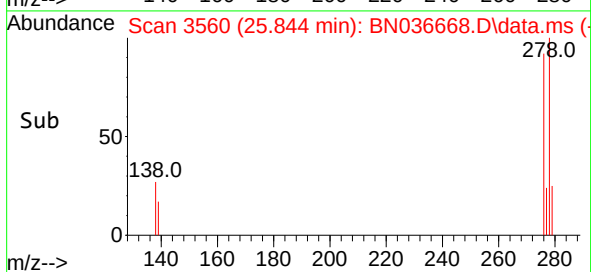
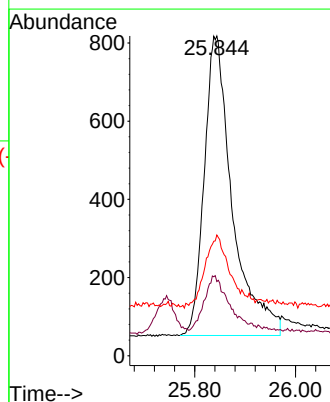
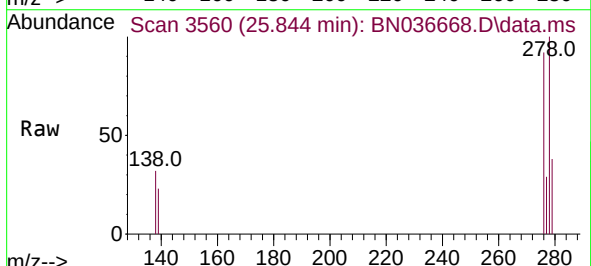
Tgt Ion:278 Resp: 2967

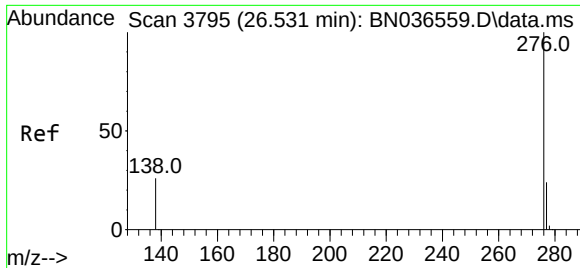
Ion Ratio Lower Upper

278 100

139 23.2 20.8 31.2

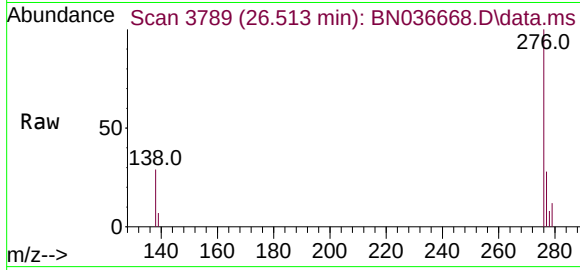
279 37.8 28.8 43.2



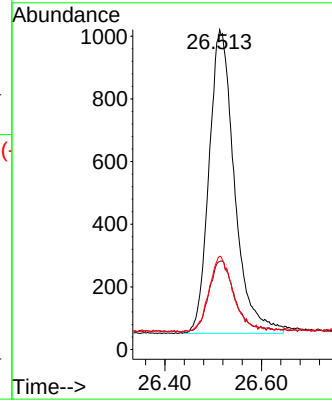
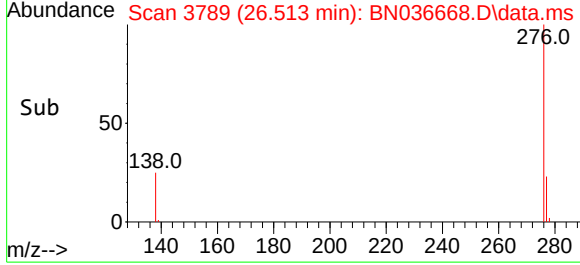


#41
 Benzo(g,h,i)perylene
 Concen: 0.414 ng
 RT: 26.513 min Scan# 31
 Delta R.T. -0.017 min
 Lab File: BN036668.D
 Acq: 17 Mar 2025 21:02

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4



Tgt Ion:	276	Resp:	3542
Ion Ratio	Lower	Upper	
276	100		
277	27.5	22.2	33.4
138	29.2	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
 Data File : BN036674.D
 Acq On : 18 Mar 2025 00:39
 Operator : RC/JU
 Sample : Q1582-11
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BPOW1-7-20250314

Quant Time: Mar 18 01:19:25 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

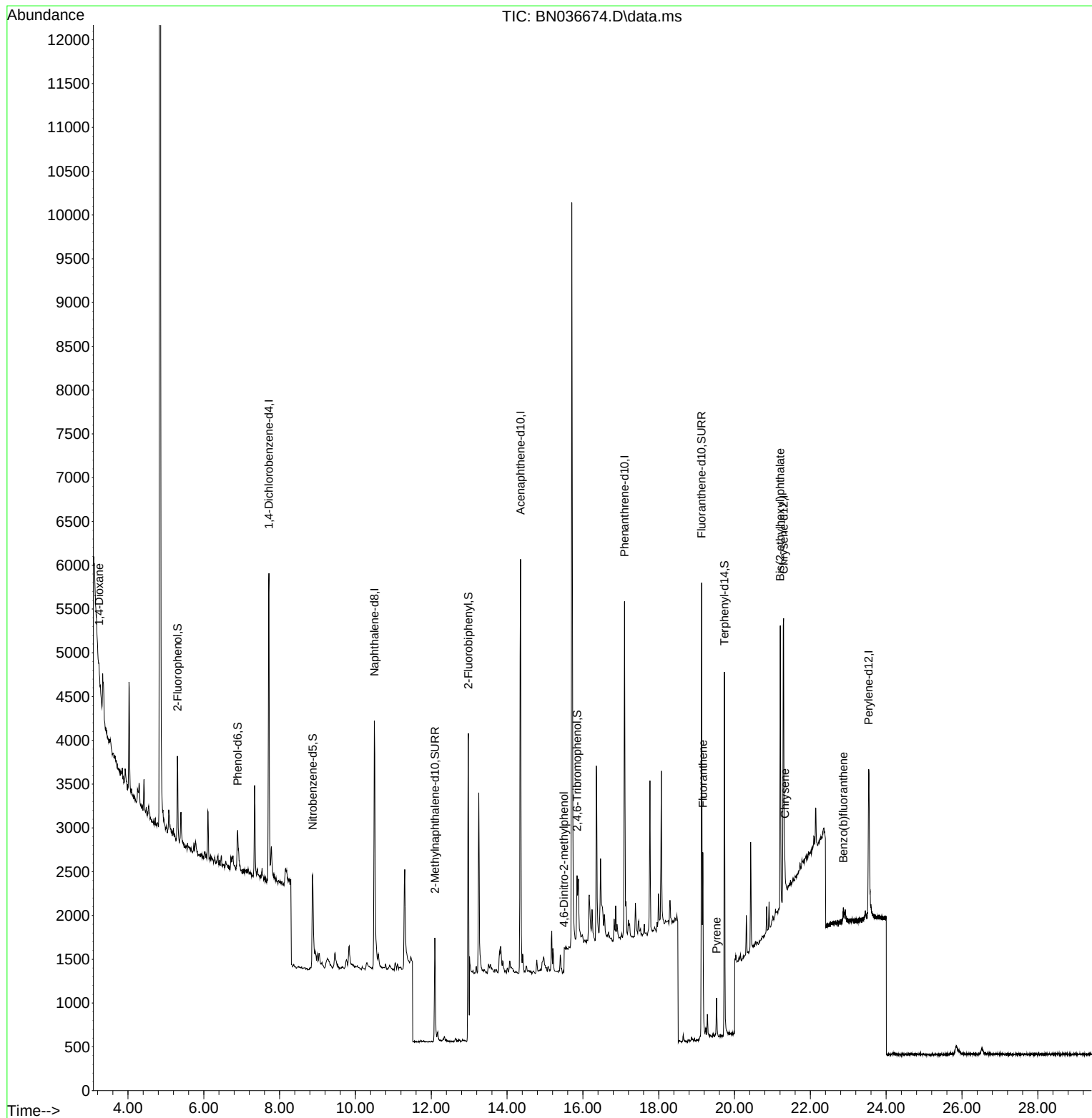
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1843	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4422	0.400	ng	-0.01
13) Acenaphthene-d10	14.355	164	2743	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	5303	0.400	ng	-0.01
29) Chrysene-d12	21.295	240	3399	0.400	ng	0.00
35) Perylene-d12	23.540	264	2777	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	692	0.161	ng	0.00
5) Phenol-d6	6.894	99	458	0.086	ng	0.00
8) Nitrobenzene-d5	8.875	82	1347	0.280	ng	0.00
11) 2-Methylnaphthalene-d10	12.096	152	1913	0.291	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	454	0.365	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	4694	0.294	ng	-0.01
27) Fluoranthene-d10	19.132	212	5847	0.430	ng	0.00
31) Terphenyl-d14	19.736	244	4142	0.509	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	89	0.044	ng	# 44
20) 4,6-Dinitro-2-methylph...	15.499	198	8	0.152	ng	# 1
28) Fluoranthene	19.164	202	392	0.022	ng	# 5
30) Pyrene	19.527	202	368	0.022	ng	# 91
33) Chrysene	21.331	228	263	0.020	ng	# 65
34) Bis(2-ethylhexyl)phtha...	21.205	149	3167	0.376	ng	# 94
37) Benzo(b)fluoranthene	22.870	252	210	0.021	ng	# 1

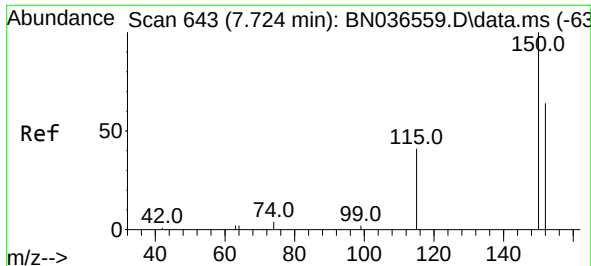
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036674.D
Acq On : 18 Mar 2025 00:39
Operator : RC/JU
Sample : Q1582-11
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

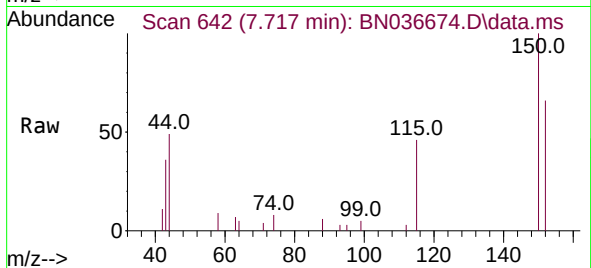
Quant Time: Mar 18 01:19:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



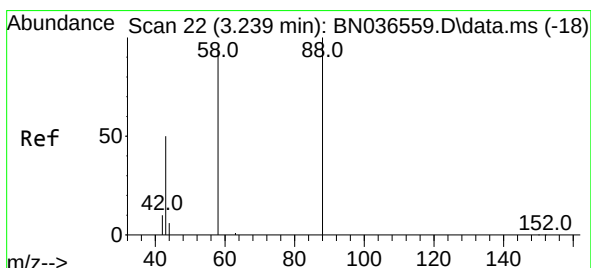
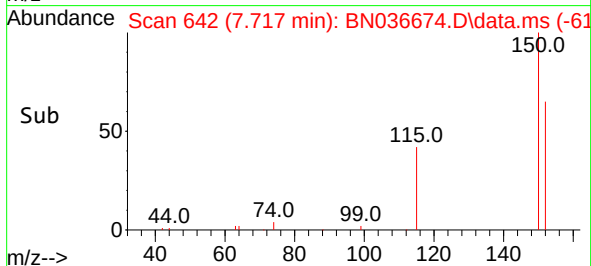
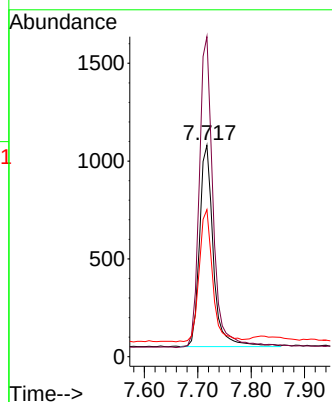


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

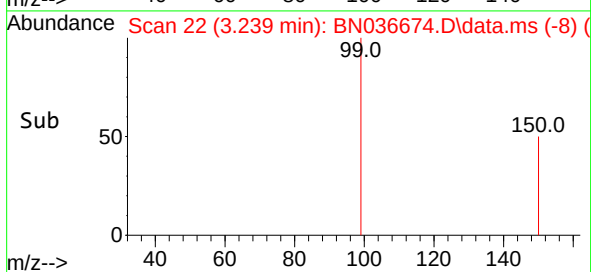
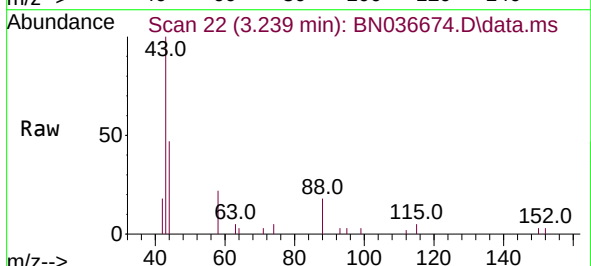
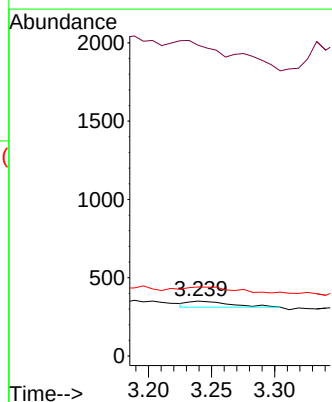


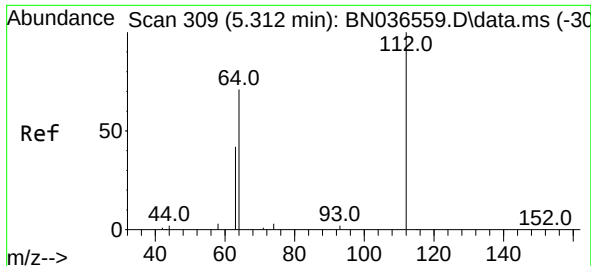
Tgt Ion:152 Resp: 1843
Ion Ratio Lower Upper
152 100
150 151.3 123.7 185.5
115 69.6 54.3 81.5



#2
1,4-Dioxane
Concen: 0.044 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion: 88 Resp: 89
Ion Ratio Lower Upper
88 100
43 0.0 37.8 56.8#
58 128.1 67.4 101.2#

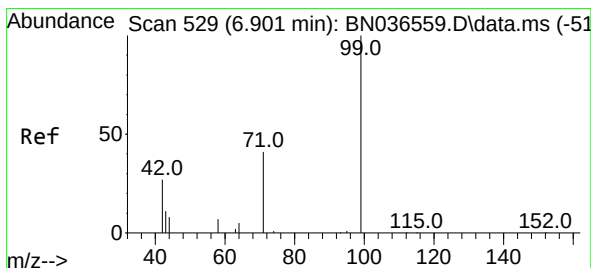
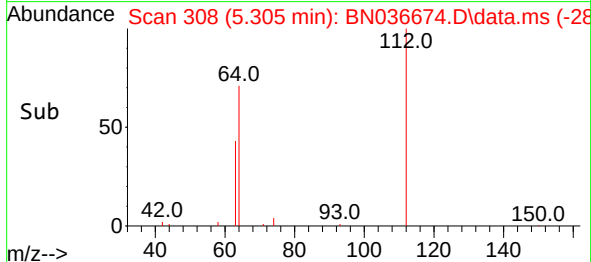
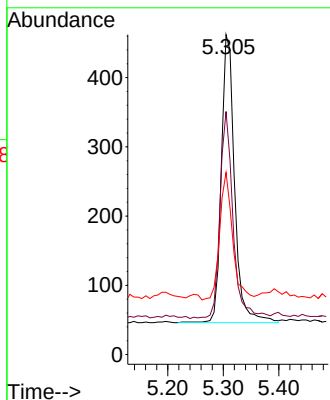
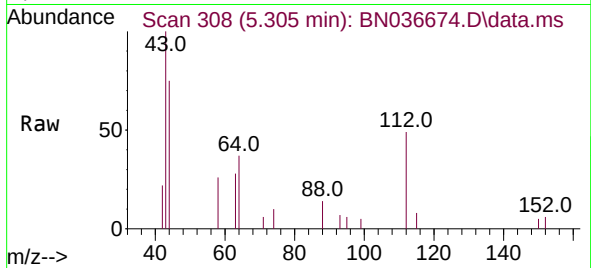




#4
2-Fluorophenol
Concen: 0.161 ng
RT: 5.305 min Scan# 309
Delta R.T. -0.007 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

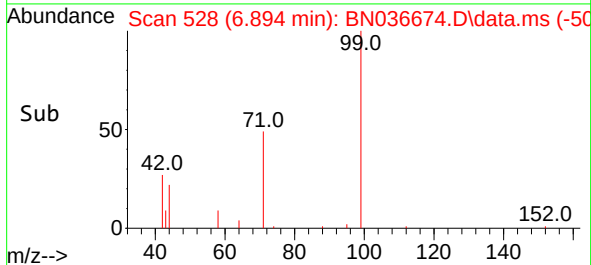
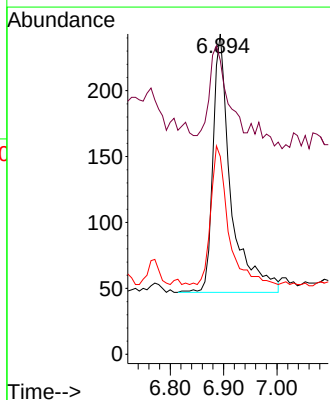
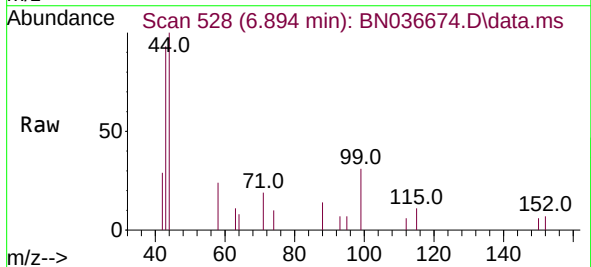
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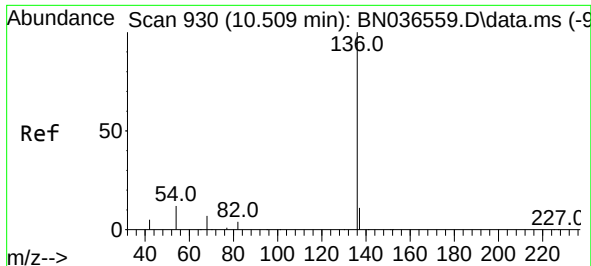
Tgt Ion:112 Resp: 692
Ion Ratio Lower Upper
112 100
64 69.9 53.1 79.7
63 42.8 31.8 47.8



#5
Phenol-d6
Concen: 0.086 ng
RT: 6.894 min Scan# 528
Delta R.T. -0.007 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion: 99 Resp: 458
Ion Ratio Lower Upper
99 100
42 34.9 26.5 39.7
71 52.8 34.1 51.1#

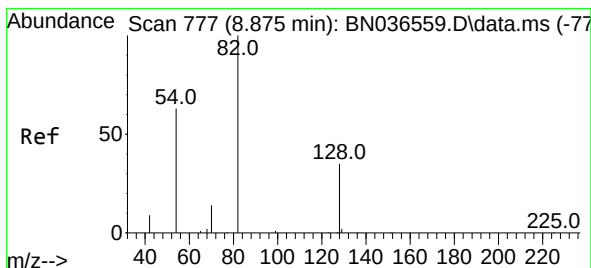
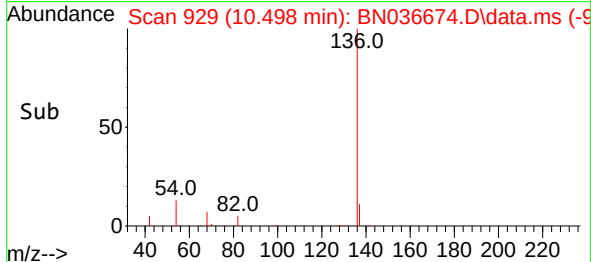
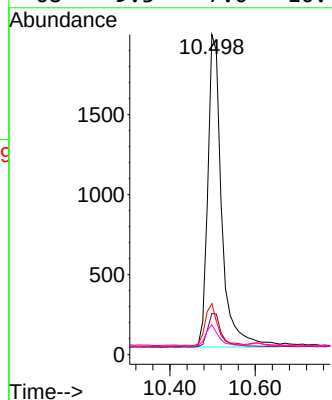
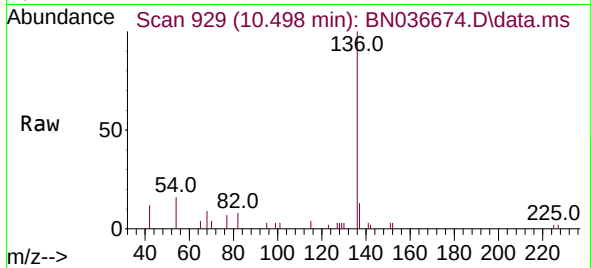




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

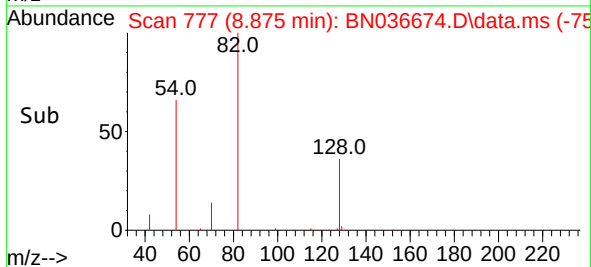
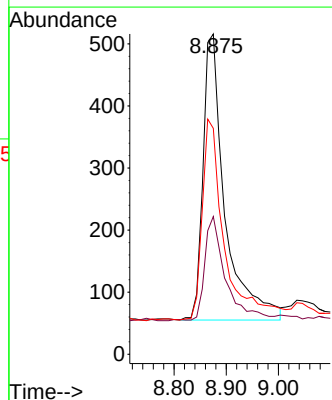
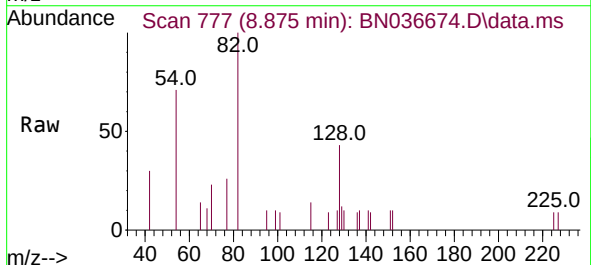
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BPOW1-7-20250314

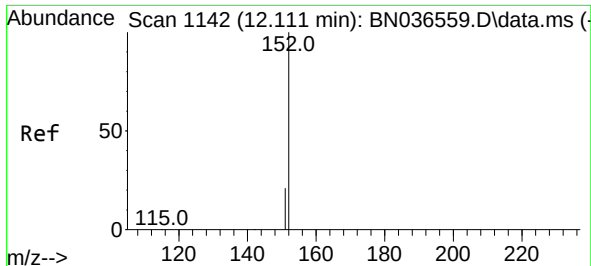
Tgt Ion:136	Resp:	4422
Ion	Ratio	Lower Upper
136	100	
137	12.9	10.3 15.5
54	16.0	11.5 17.3
68	9.3	7.0 10.4



#8
Nitrobenzene-d5
Concen: 0.280 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion: 82	Resp:	1347
Ion	Ratio	Lower Upper
82	100	
128	43.0	30.6 45.8
54	70.5	52.2 78.4

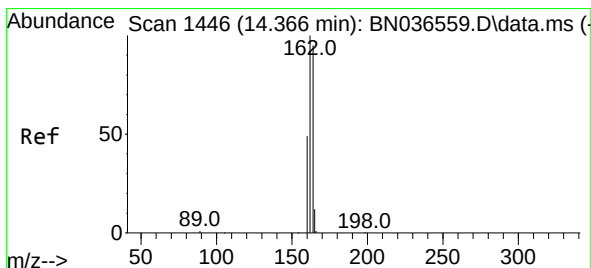
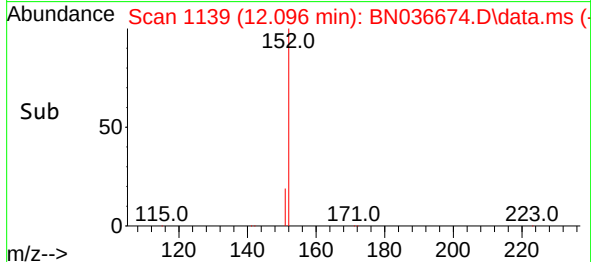
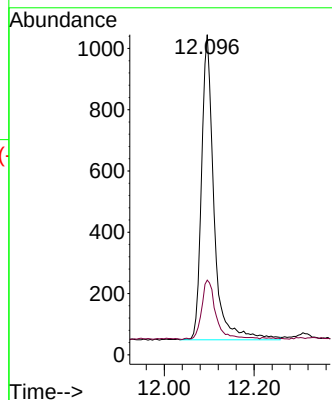
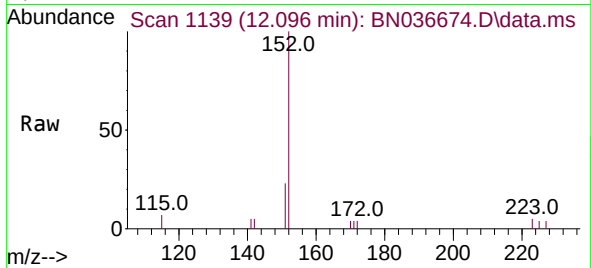




#11
2-Methylnaphthalene-d10
Concen: 0.291 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

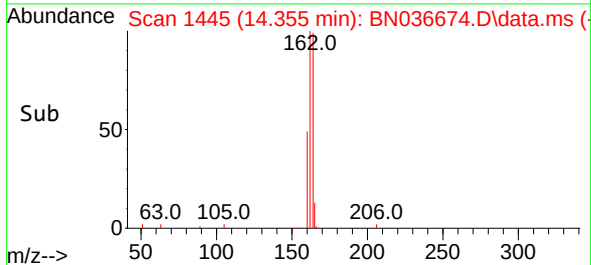
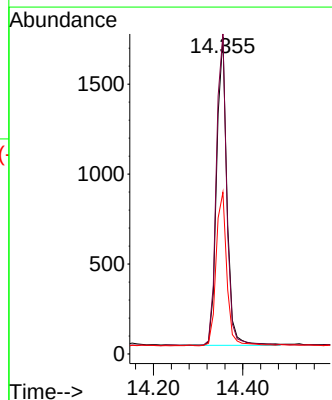
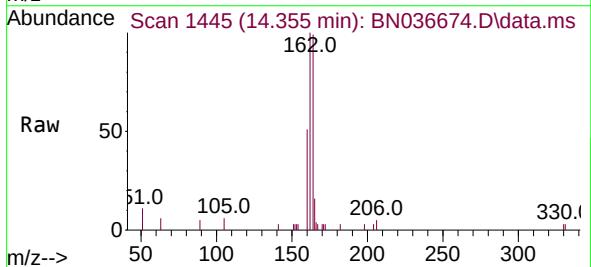
Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

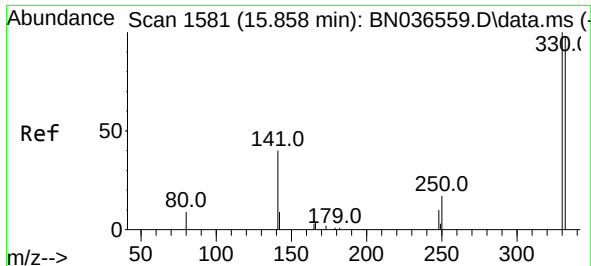
Tgt Ion:152 Resp: 1913
Ion Ratio Lower Upper
152 100
151 21.6 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:164 Resp: 2743
Ion Ratio Lower Upper
164 100
162 100.9 84.2 126.2
160 51.0 42.2 63.2

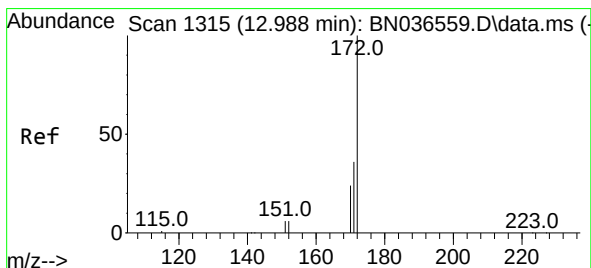
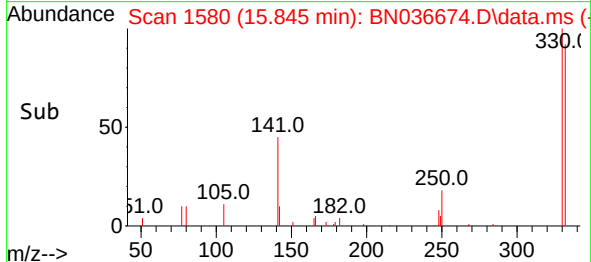
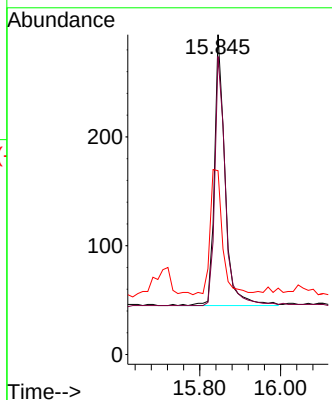
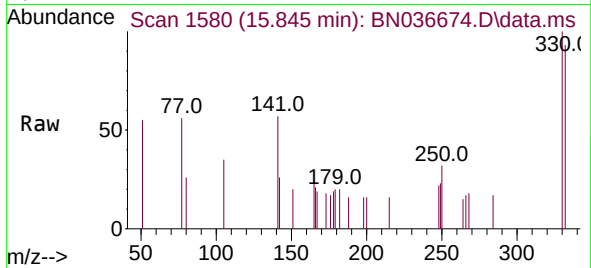




#14
2,4,6-Tribromophenol
Concen: 0.365 ng
RT: 15.845 min Scan# 11
Delta R.T. -0.012 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

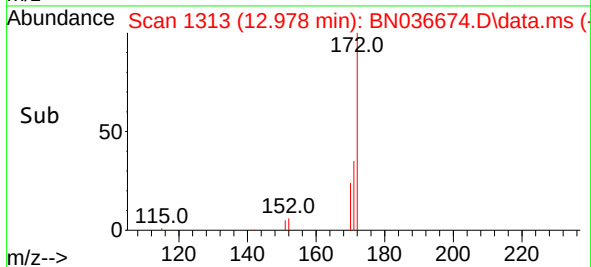
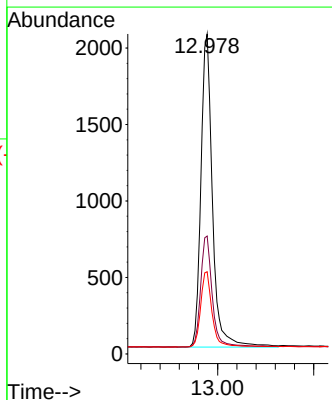
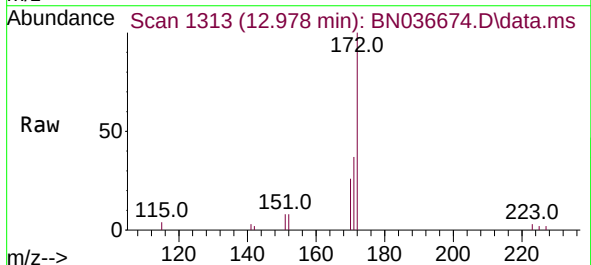
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ClientSampleId :
BPOW1-7-20250314

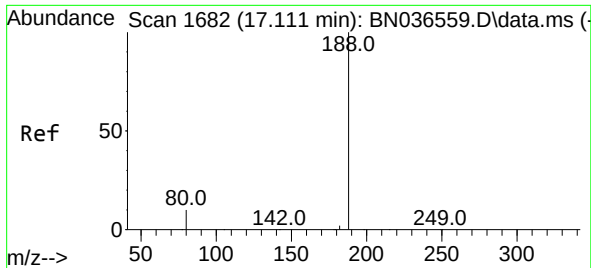
Tgt Ion:330 Resp: 454
Ion Ratio Lower Upper
330 100
332 92.1 75.2 112.8
141 54.0 43.4 65.2



#15
2-Fluorobiphenyl
Concen: 0.294 ng
RT: 12.978 min Scan# 1313
Delta R.T. -0.010 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:172 Resp: 4694
Ion Ratio Lower Upper
172 100
171 36.9 29.5 44.3
170 25.7 20.2 30.4

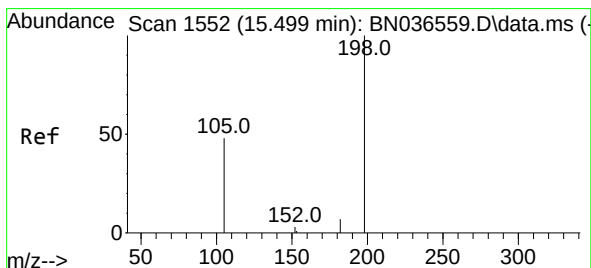
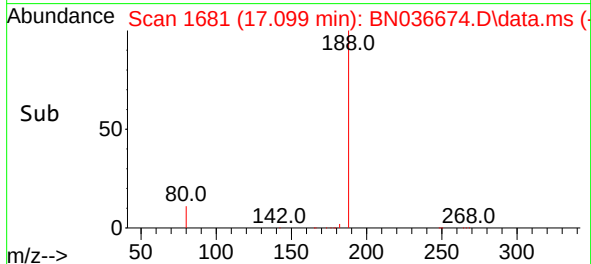
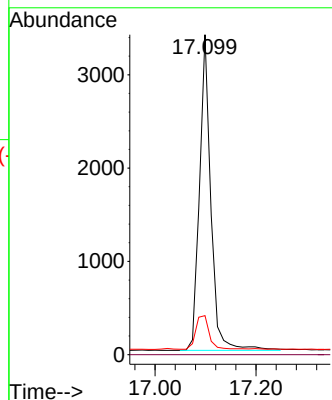
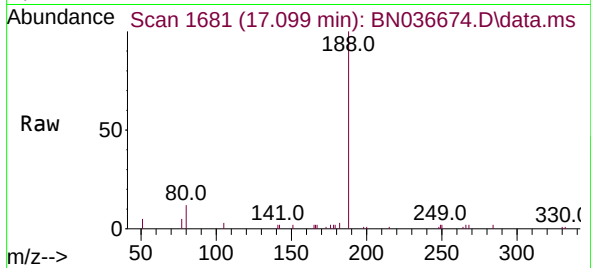




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1682
Delta R.T. -0.012 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

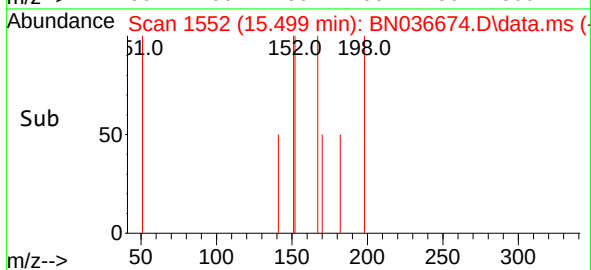
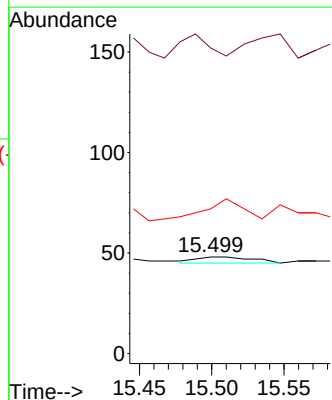
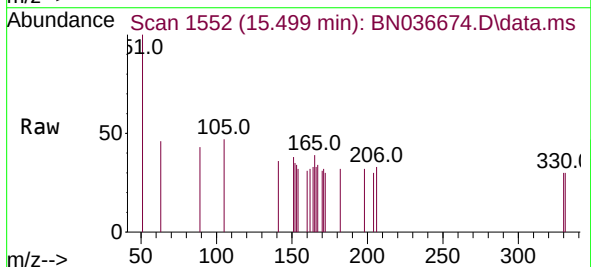
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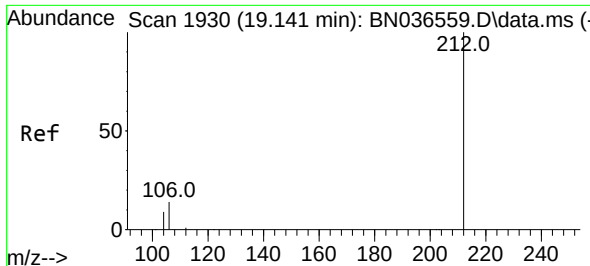
Tgt Ion:188 Resp: 5303
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.2 8.8 13.2



#20
4,6-Dinitro-2-methylphenol
Concen: 0.152 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

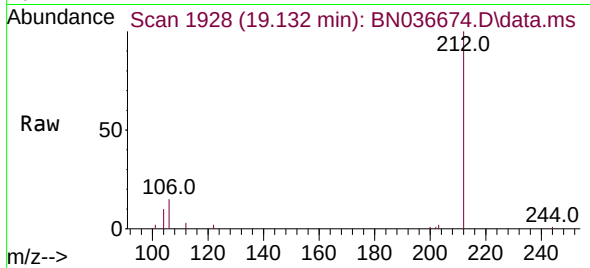
Tgt Ion:198 Resp: 8
Ion Ratio Lower Upper
198 100
51 316.7 107.9 161.9#
105 150.0 56.2 84.2#



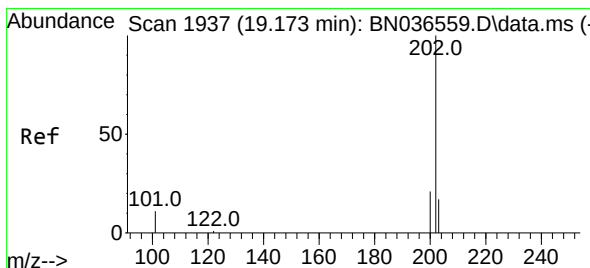
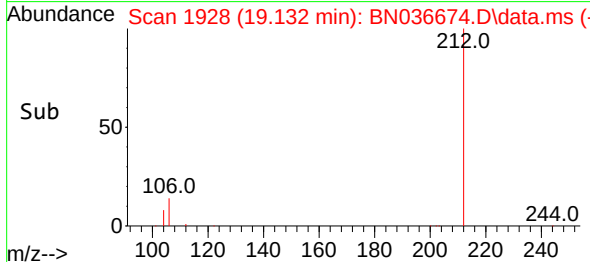
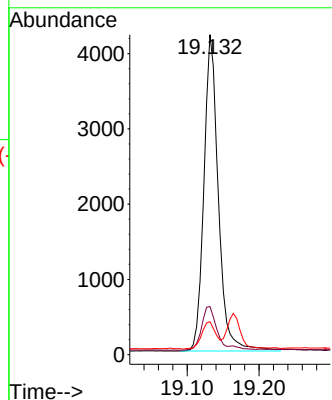


#27
Fluoranthene-d10
Concen: 0.430 ng
RT: 19.132 min Scan# 1928
Delta R.T. -0.009 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

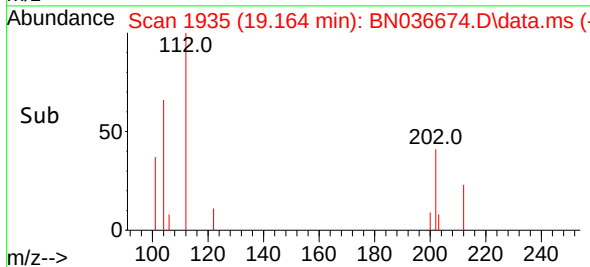
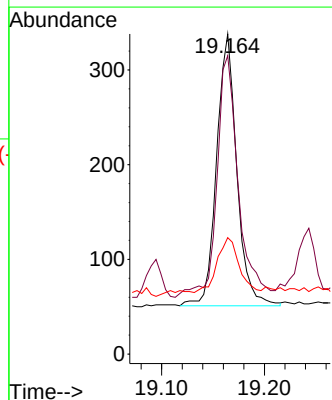
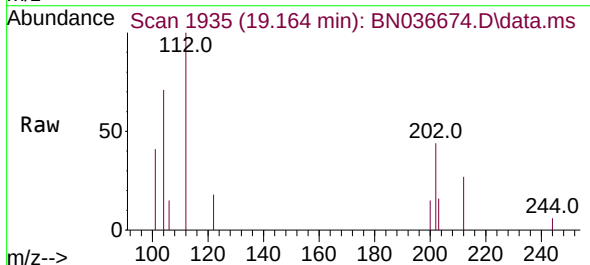


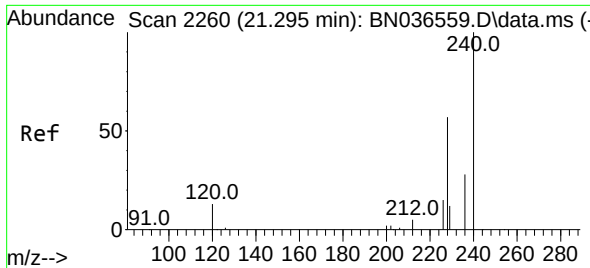
Tgt Ion:212 Resp: 5847
Ion Ratio Lower Upper
212 100
106 15.1 11.8 17.6
104 8.4 7.3 10.9



#28
Fluoranthene
Concen: 0.022 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:202 Resp: 392
Ion Ratio Lower Upper
202 100
101 94.9 9.4 14.0#
203 22.2 13.5 20.3#

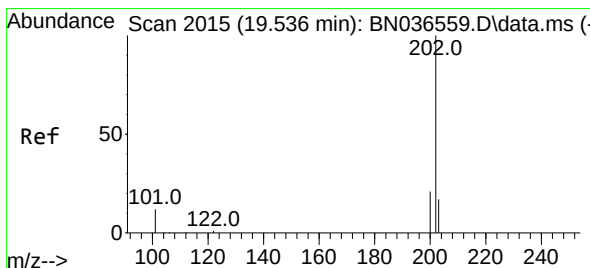
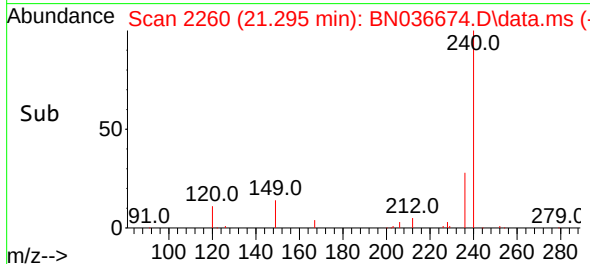
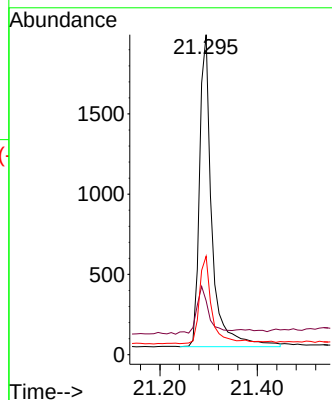
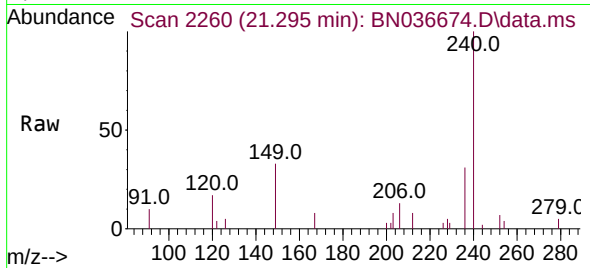




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

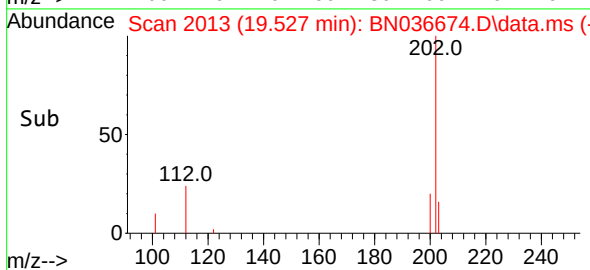
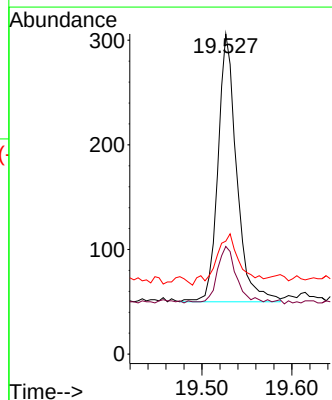
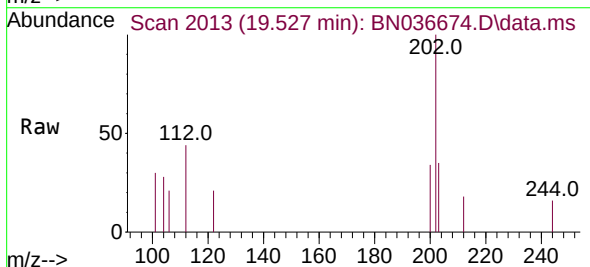
Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

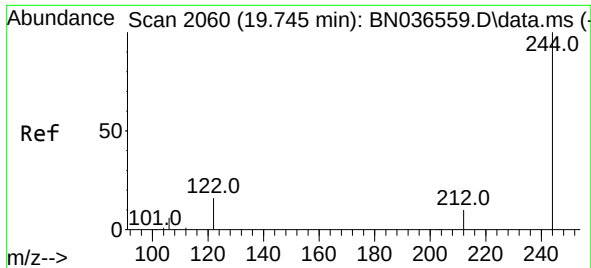
Tgt Ion:240 Resp: 3399
Ion Ratio Lower Upper
240 100
120 16.9 14.6 22.0
236 30.7 24.1 36.1



#30
Pyrene
Concen: 0.022 ng
RT: 19.527 min Scan# 2013
Delta R.T. -0.009 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:202 Resp: 368
Ion Ratio Lower Upper
202 100
200 20.1 17.1 25.7
203 24.5 14.1 21.1#

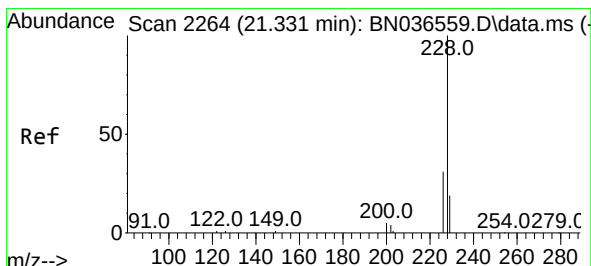
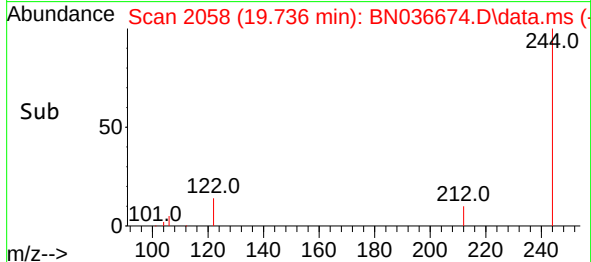
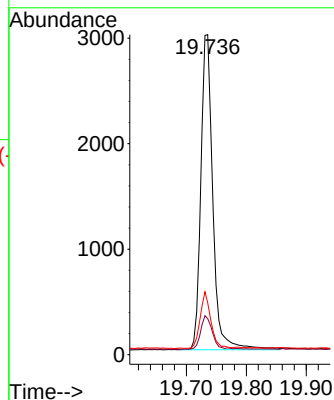
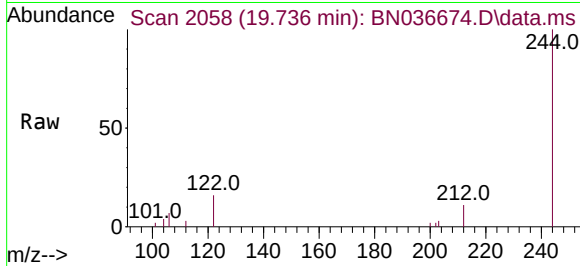




#31
 Terphenyl-d14
 Concen: 0.509 ng
 RT: 19.736 min Scan# 2060
 Delta R.T. -0.009 min
 Lab File: BN036674.D
 Acq: 18 Mar 2025 00:39

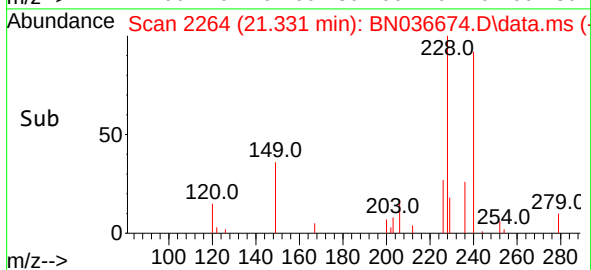
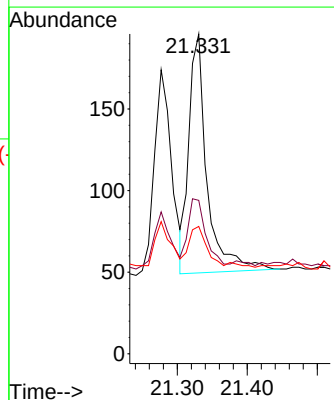
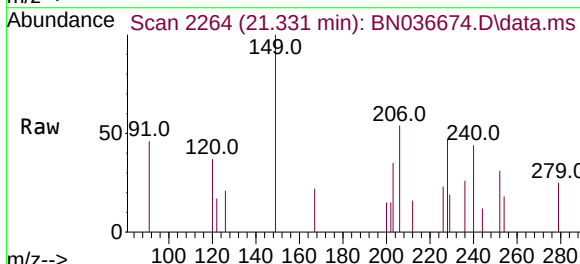
Instrument :
 BNA_N
 ClientSampleId :
 BPOW1-7-20250314

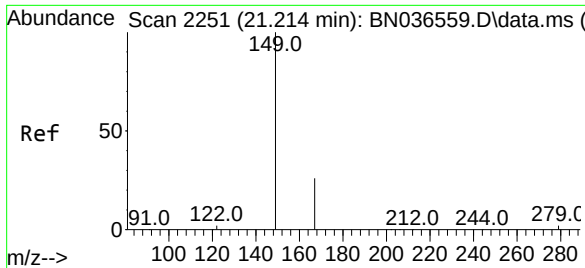
Tgt Ion:244	Resp:	4142
Ion Ratio	Lower	Upper
244	100	
212	11.2	9.6 14.4
122	16.2	13.9 20.9



#33
 Chrysene
 Concen: 0.020 ng
 RT: 21.331 min Scan# 2264
 Delta R.T. 0.000 min
 Lab File: BN036674.D
 Acq: 18 Mar 2025 00:39

Tgt Ion:228	Resp:	263
Ion Ratio	Lower	Upper
228	100	
226	48.0	25.3 37.9#
229	39.8	15.8 23.8#

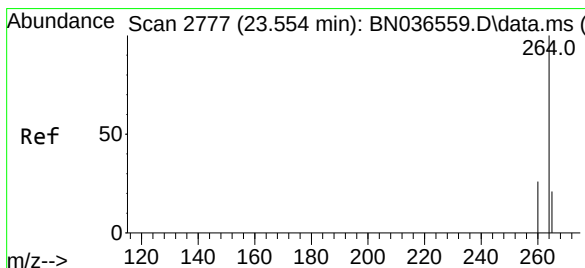
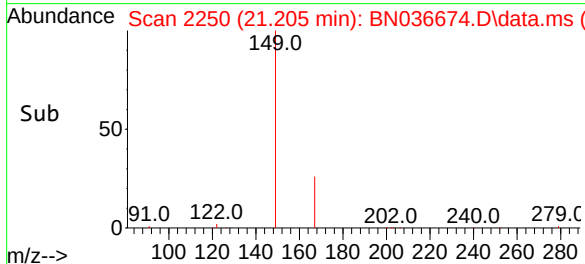
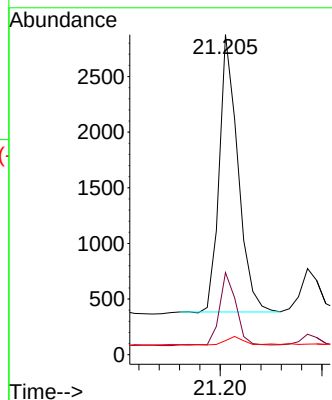
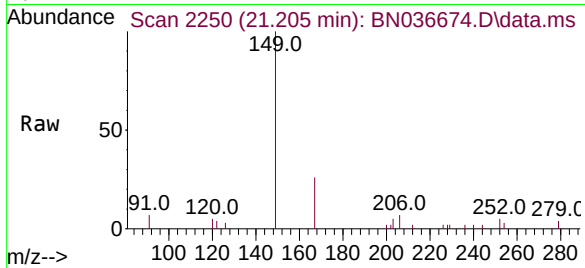




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.376 ng
 RT: 21.205 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN036674.D
 Acq: 18 Mar 2025 00:39

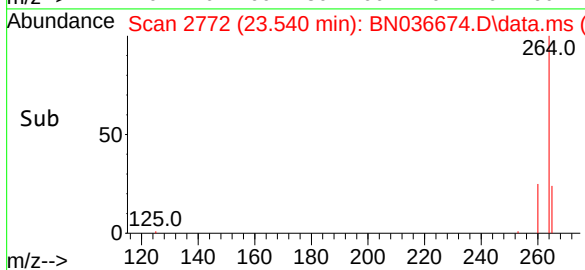
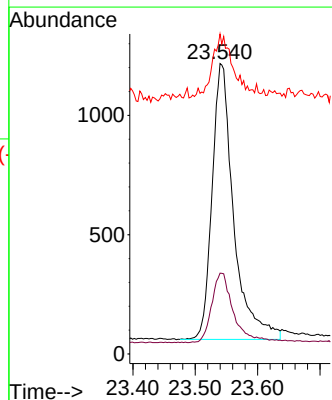
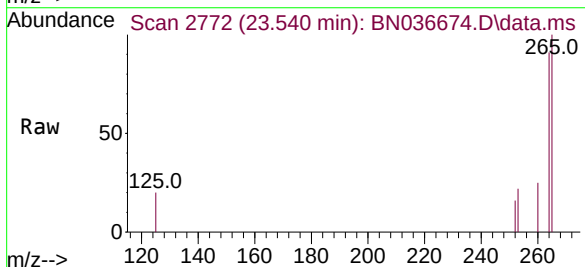
Instrument :
 BNA_N
 ClientSampleId :
 BPOW1-7-20250314

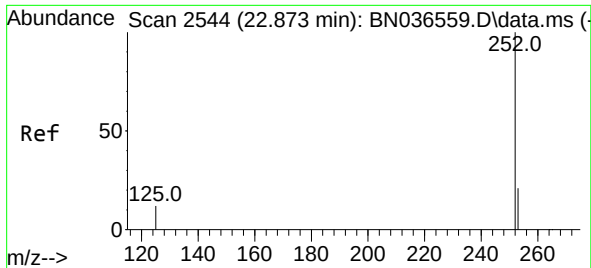
Tgt Ion:149 Resp: 3167
 Ion Ratio Lower Upper
 149 100
 167 22.9 20.7 31.1
 279 2.8 3.6 5.4#



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.540 min Scan# 2772
 Delta R.T. -0.015 min
 Lab File: BN036674.D
 Acq: 18 Mar 2025 00:39

Tgt Ion:264 Resp: 2777
 Ion Ratio Lower Upper
 264 100
 260 27.9 22.6 33.8
 265 110.2 88.1 132.1





#37

Benzo(b)fluoranthene

Concen: 0.021 ng

RT: 22.870 min Scan# 210

Delta R.T. -0.003 min

Lab File: BN036674.D

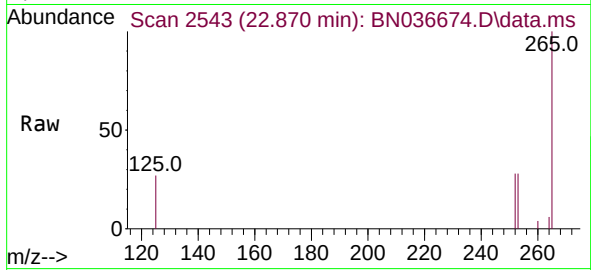
Acq: 18 Mar 2025 00:39

Instrument :

BNA_N

ClientSampleId :

BPOW1-7-20250314



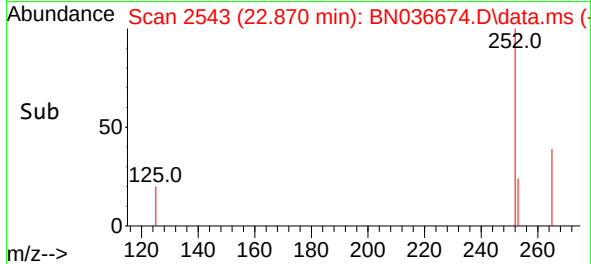
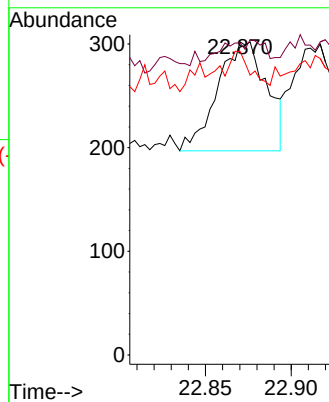
Tgt Ion:252 Resp: 210

Ion Ratio Lower Upper

252 100

253 99.7 23.9 35.9#

125 97.0 17.4 26.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
 Data File : BN036678.D
 Acq On : 18 Mar 2025 03:04
 Operator : RC/JU
 Sample : Q1582-15
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 DUP06-20250314

Quant Time: Mar 18 04:19:17 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

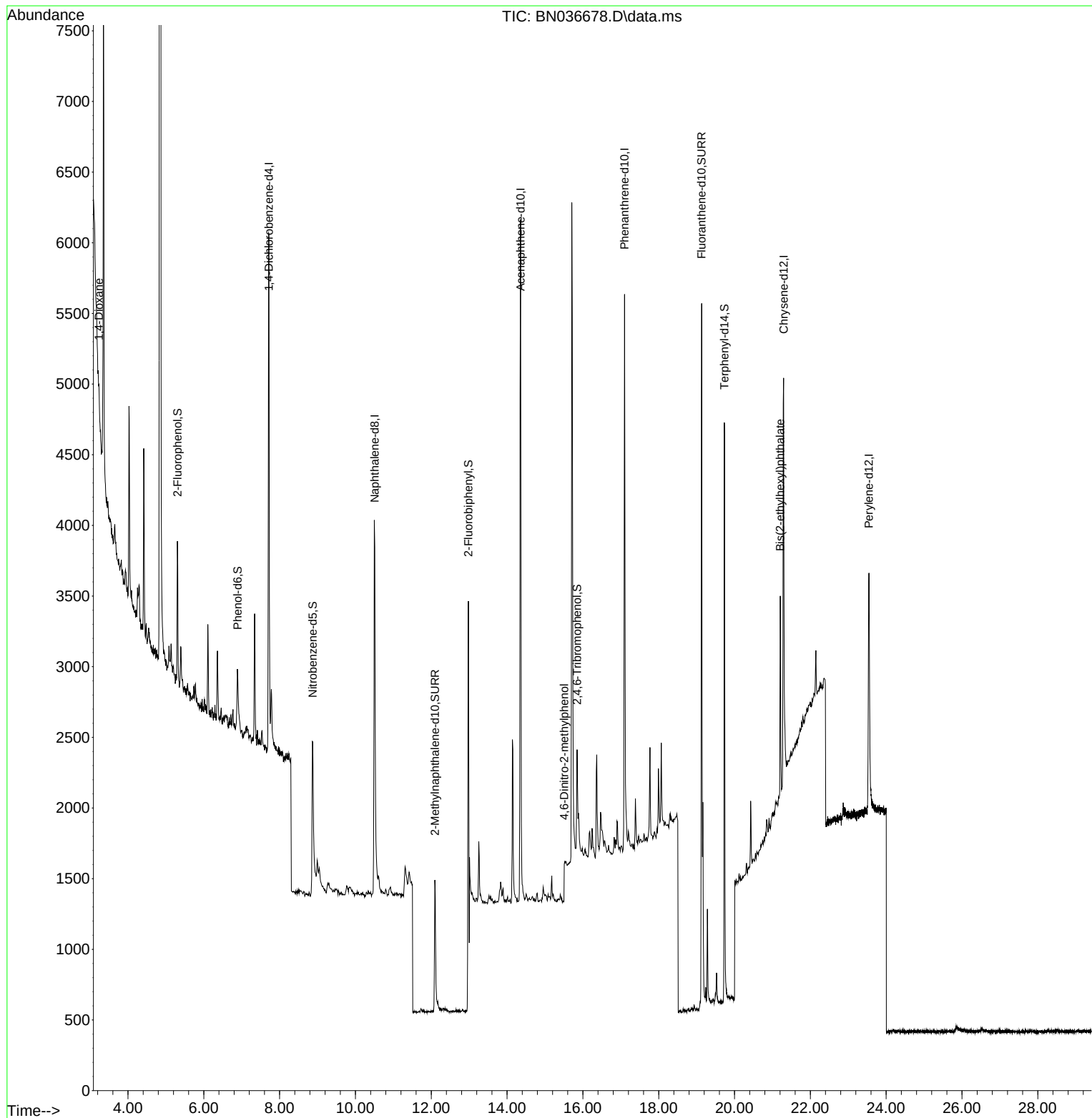
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1973	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4653	0.400	ng	0.00
13) Acenaphthene-d10	14.356	164	2790	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	5581	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	3549	0.400	ng	0.00
35) Perylene-d12	23.546	264	2795	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	703	0.153	ng	0.00
5) Phenol-d6	6.894	99	472	0.083	ng	0.00
8) Nitrobenzene-d5	8.875	82	1470	0.290	ng	0.00
11) 2-Methylnaphthalene-d10	12.096	152	1673	0.242	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	449	0.355	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	4407	0.272	ng	0.00
27) Fluoranthene-d10	19.132	212	5992	0.419	ng	0.00
31) Terphenyl-d14	19.736	244	4135	0.486	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.232	88	133	0.061	ng	# 58
20) 4,6-Dinitro-2-methylph...	15.510	198	7	0.151	ng	# 1
34) Bis(2-ethylhexyl)phtha...	21.205	149	1509	0.172	ng	# 94

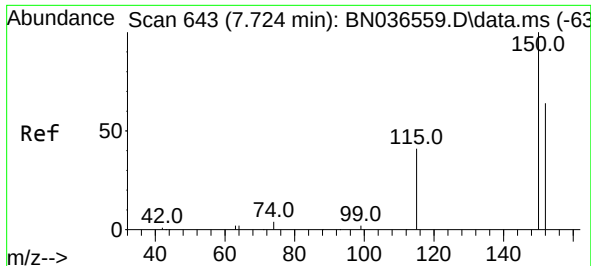
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036678.D
Acq On : 18 Mar 2025 03:04
Operator : RC/JU
Sample : Q1582-15
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

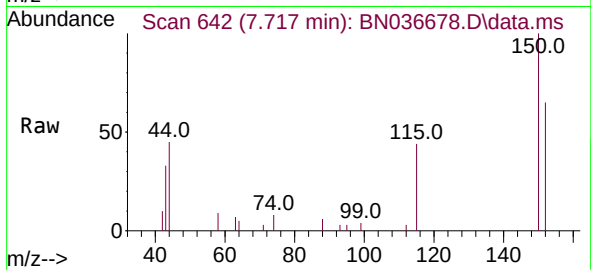
Quant Time: Mar 18 04:19:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



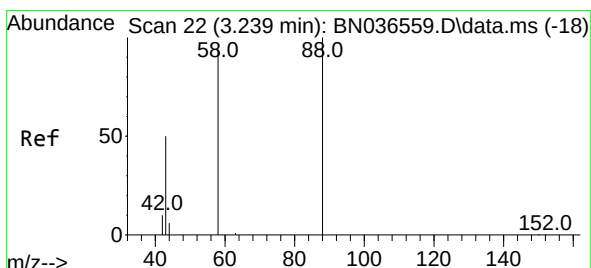
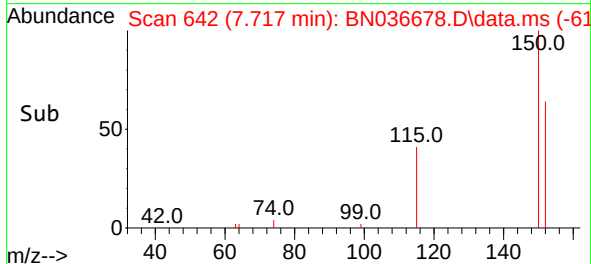
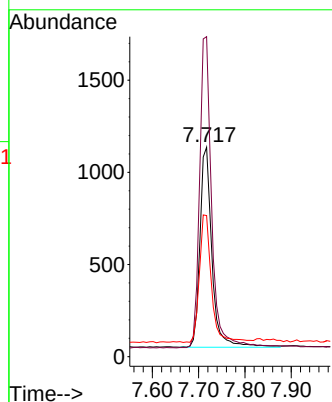


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

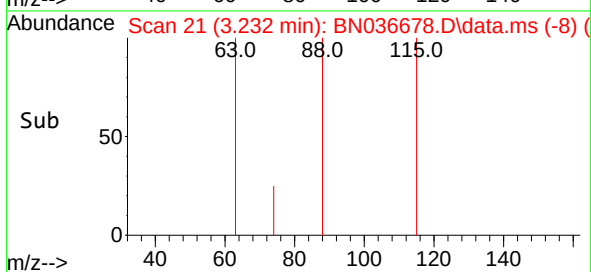
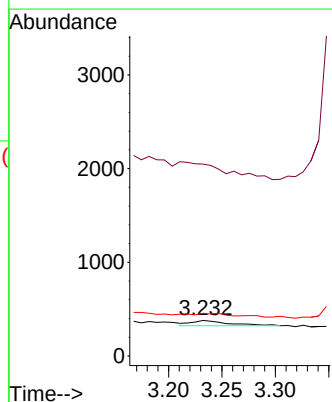
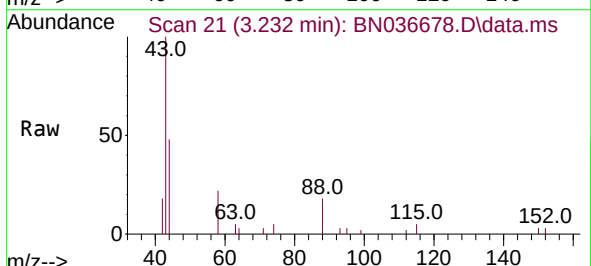


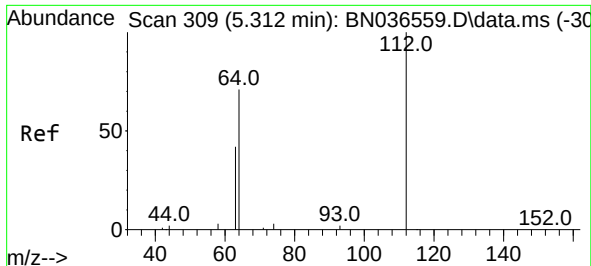
Tgt Ion:152 Resp: 1973
Ion Ratio Lower Upper
152 100
150 152.8 123.7 185.5
115 67.4 54.3 81.5



#2
1,4-Dioxane
Concen: 0.061 ng
RT: 3.232 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion: 88 Resp: 133
Ion Ratio Lower Upper
88 100
43 0.0 37.8 56.8#
58 60.9 67.4 101.2#

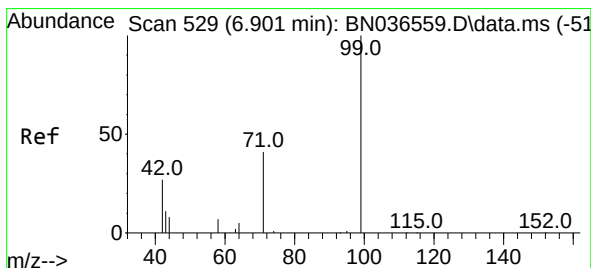
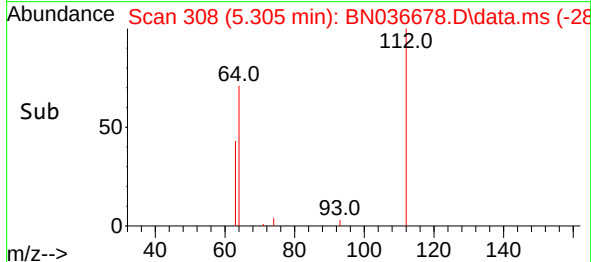
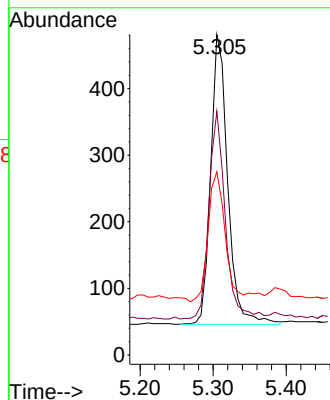
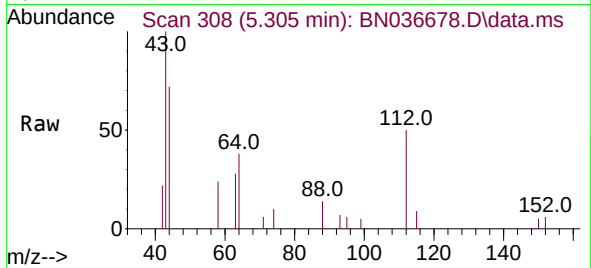




#4
2-Fluorophenol
Concen: 0.153 ng
RT: 5.305 min Scan# 309
Delta R.T. -0.007 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

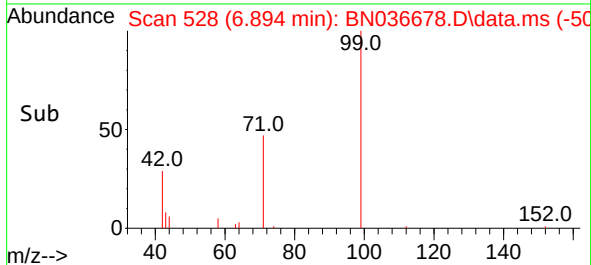
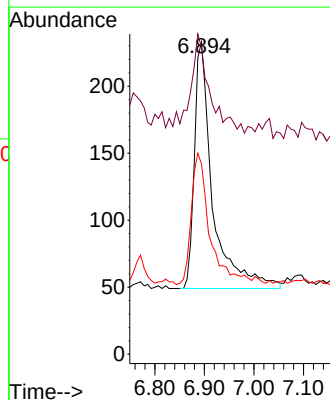
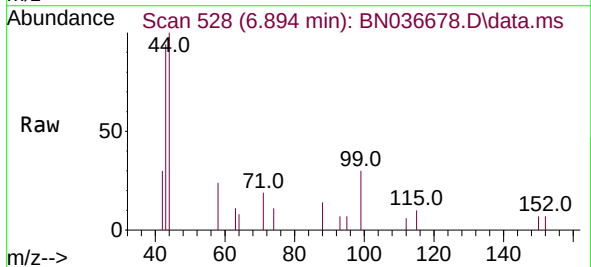
Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

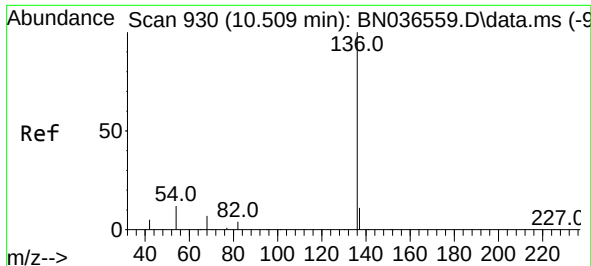
Tgt Ion:112 Resp: 703
Ion Ratio Lower Upper
112 100
64 69.3 53.1 79.7
63 44.7 31.8 47.8



#5
Phenol-d6
Concen: 0.083 ng
RT: 6.894 min Scan# 528
Delta R.T. -0.007 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion: 99 Resp: 472
Ion Ratio Lower Upper
99 100
42 41.9 26.5 39.7#
71 53.6 34.1 51.1#

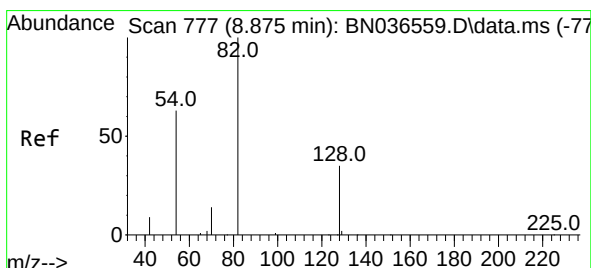
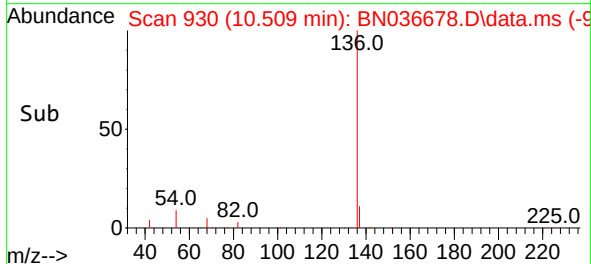
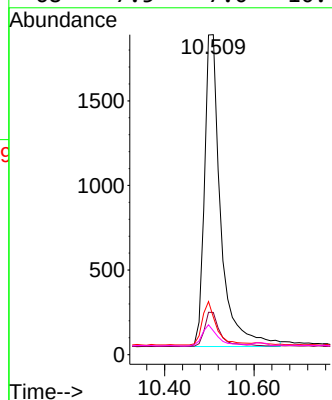
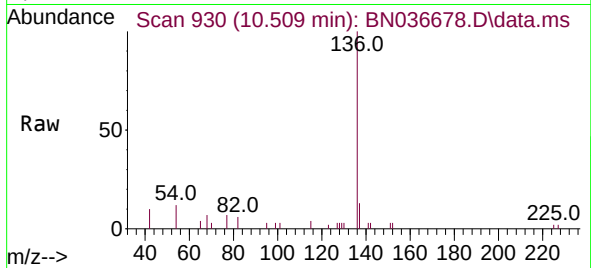




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

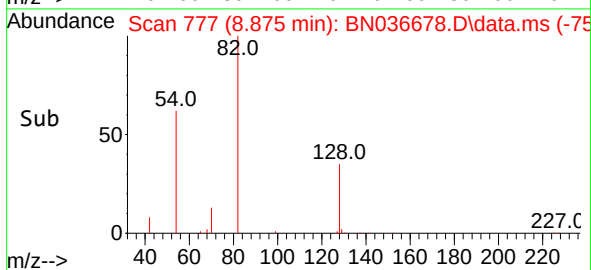
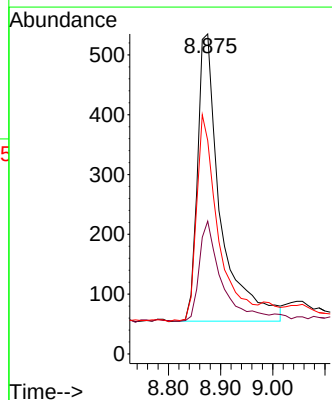
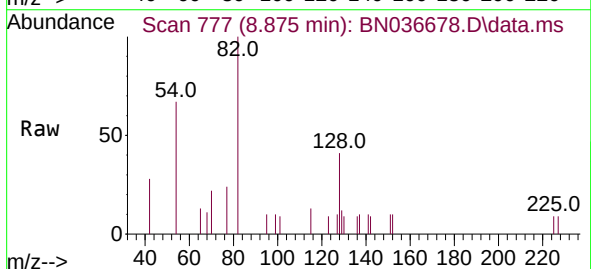
Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

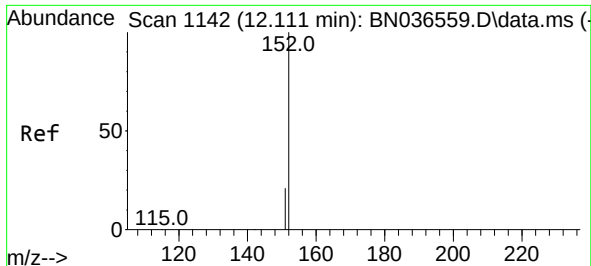
Tgt Ion:	136	Resp:	4653
Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.3	15.5
54	11.7	11.5	17.3
68	7.5	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.290 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion:	82	Resp:	1470
Ion	Ratio	Lower	Upper
82	100		
128	41.5	30.6	45.8
54	66.7	52.2	78.4

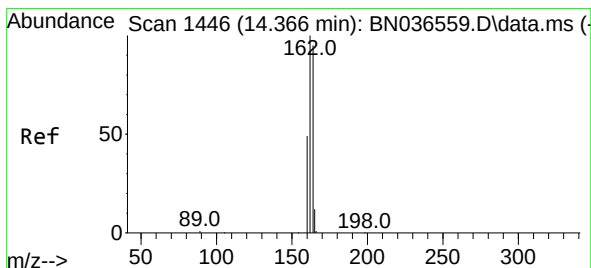
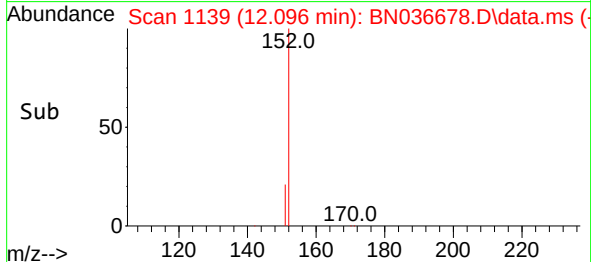
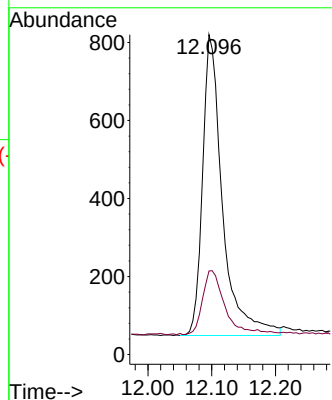
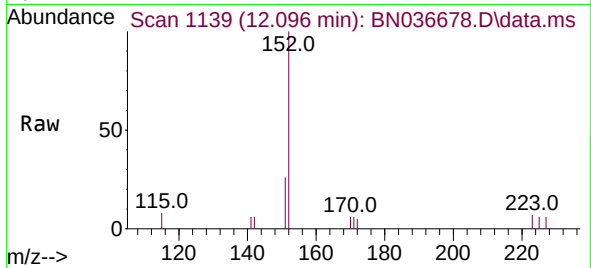




#11
2-Methylnaphthalene-d10
Concen: 0.242 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

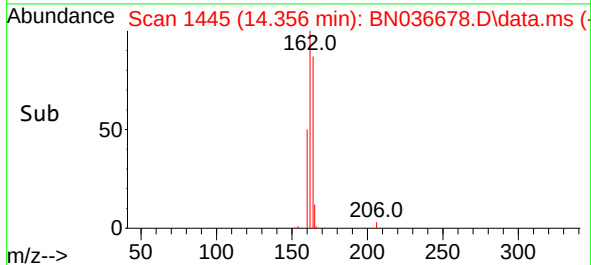
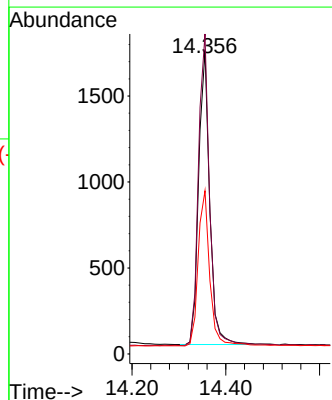
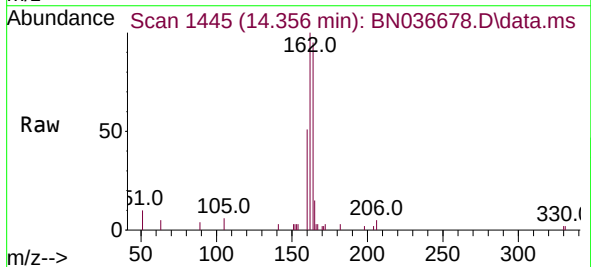
Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

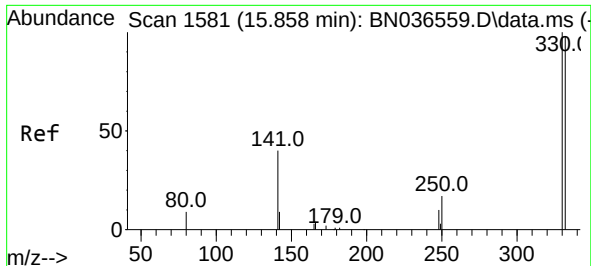
Tgt Ion:152 Resp: 1673
Ion Ratio Lower Upper
152 100
151 24.1 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

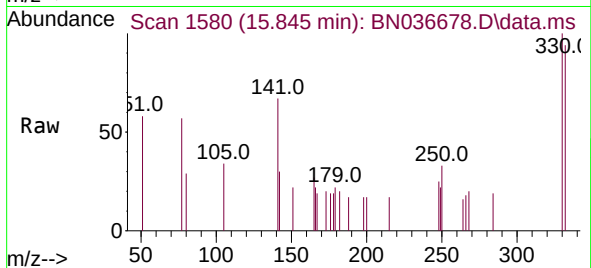
Tgt Ion:164 Resp: 2790
Ion Ratio Lower Upper
164 100
162 105.7 84.2 126.2
160 53.9 42.2 63.2



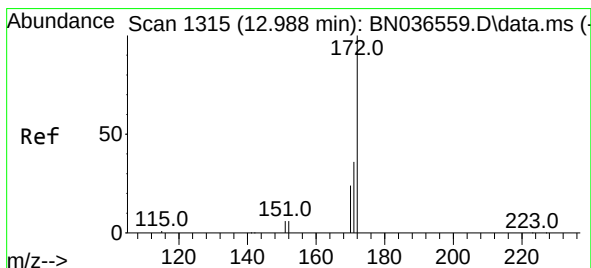
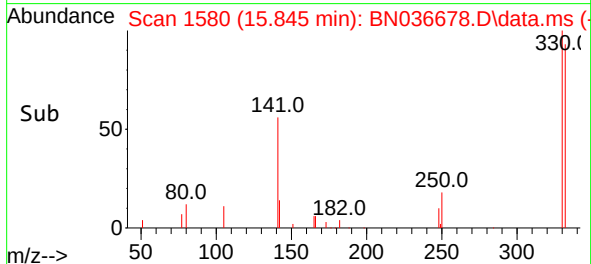
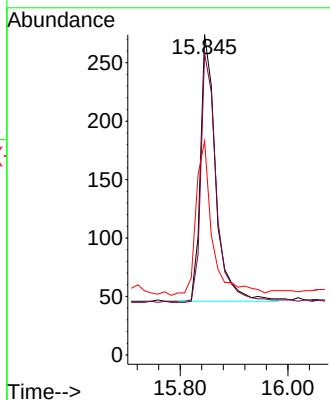


#14
2,4,6-Tribromophenol
Concen: 0.355 ng
RT: 15.845 min Scan# 11
Delta R.T. -0.012 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

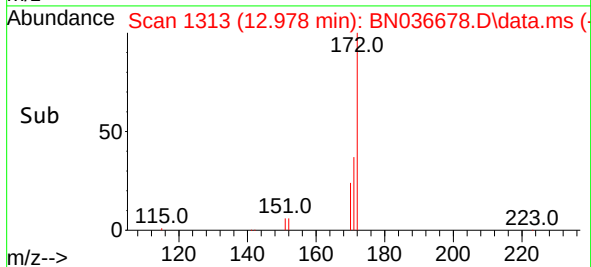
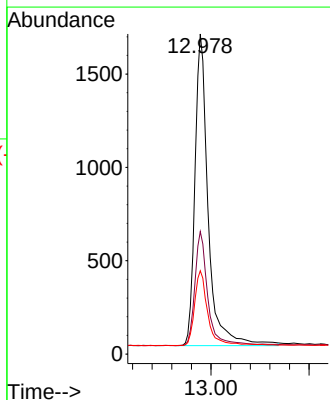
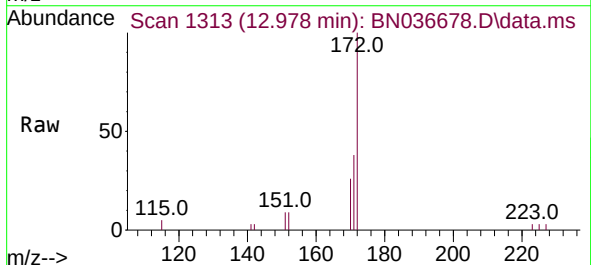


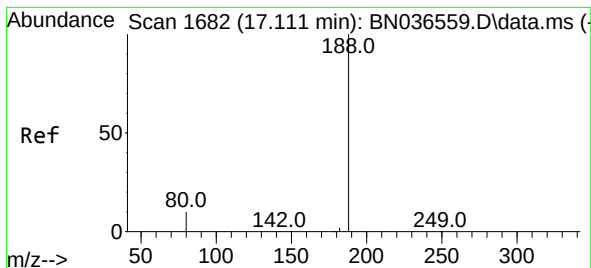
Tgt Ion:330 Resp: 449
Ion Ratio Lower Upper
330 100
332 95.3 75.2 112.8
141 62.6 43.4 65.2



#15
2-Fluorobiphenyl
Concen: 0.272 ng
RT: 12.978 min Scan# 1313
Delta R.T. -0.010 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion:172 Resp: 4407
Ion Ratio Lower Upper
172 100
171 38.3 29.5 44.3
170 26.0 20.2 30.4





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN036678.D

Acq: 18 Mar 2025 03:04

Instrument :

BNA_N

ClientSampleId :

DUP06-20250314

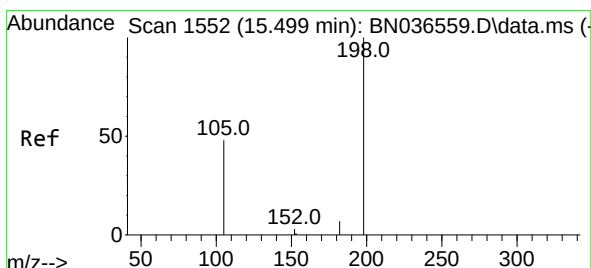
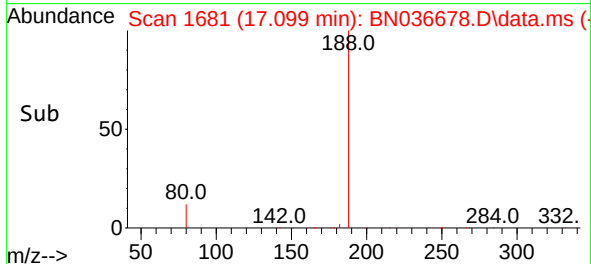
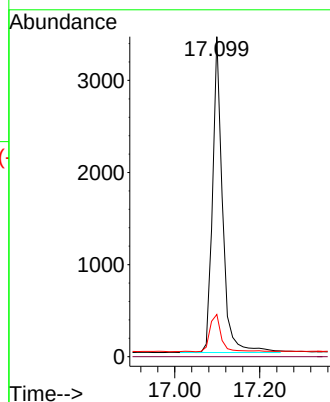
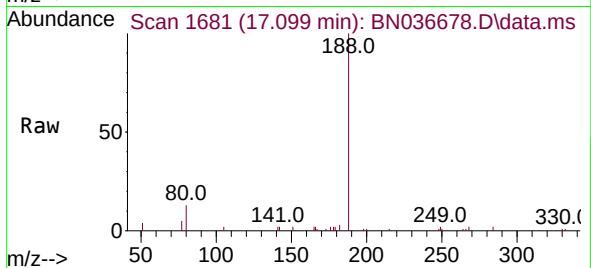
Tgt Ion:188 Resp: 5581

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.2 8.8 13.2#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.151 ng

RT: 15.510 min Scan# 1553

Delta R.T. 0.011 min

Lab File: BN036678.D

Acq: 18 Mar 2025 03:04

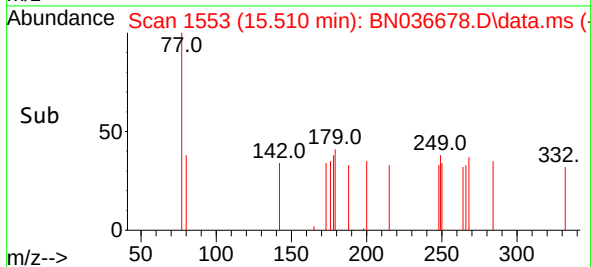
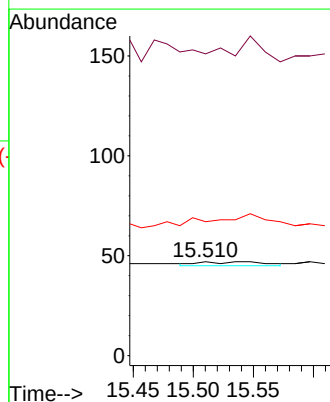
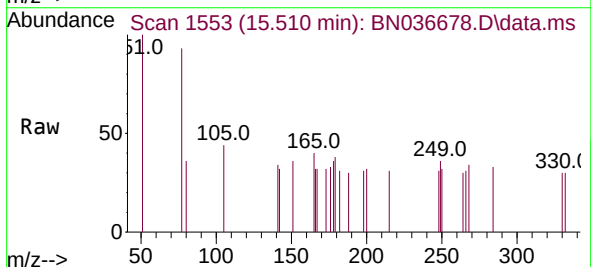
Tgt Ion:198 Resp: 7

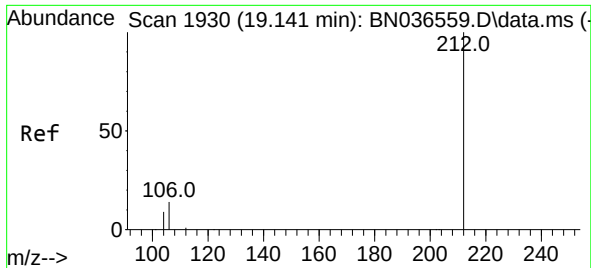
Ion Ratio Lower Upper

198 100

51 321.3 107.9 161.9#

105 142.6 56.2 84.2#

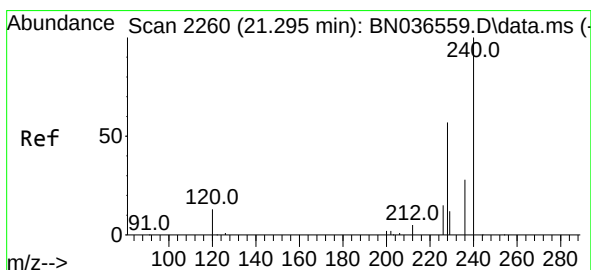
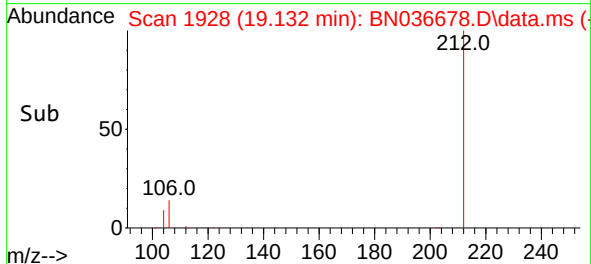
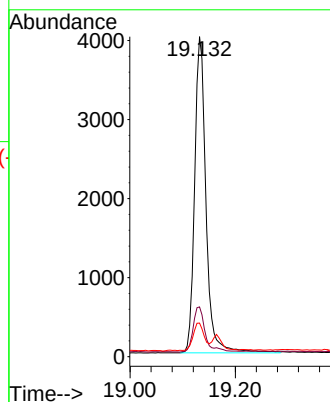
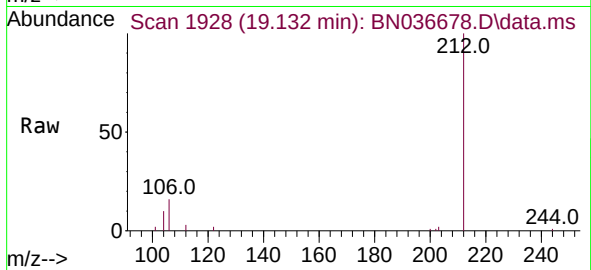




#27
Fluoranthene-d10
Concen: 0.419 ng
RT: 19.132 min Scan# 1930
Delta R.T. -0.009 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

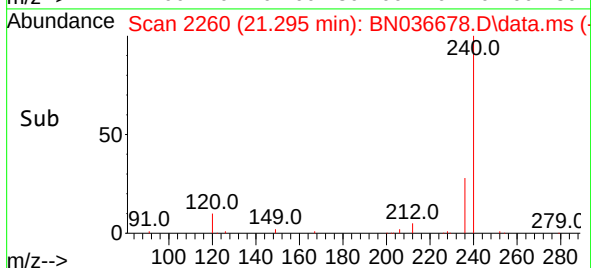
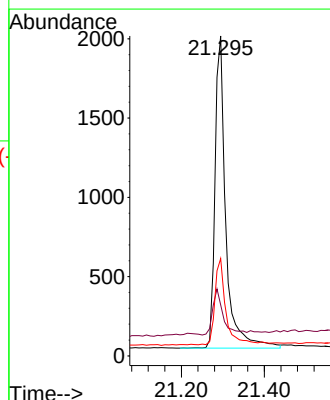
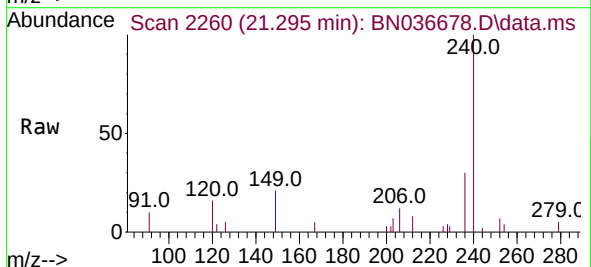
Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

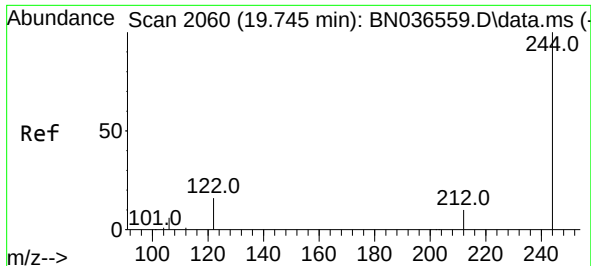
Tgt Ion:212 Resp: 5992
Ion Ratio Lower Upper
212 100
106 15.2 11.8 17.6
104 8.6 7.3 10.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion:240 Resp: 3549
Ion Ratio Lower Upper
240 100
120 16.0 14.6 22.0
236 30.4 24.1 36.1

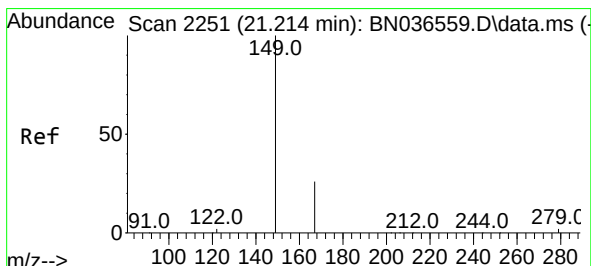
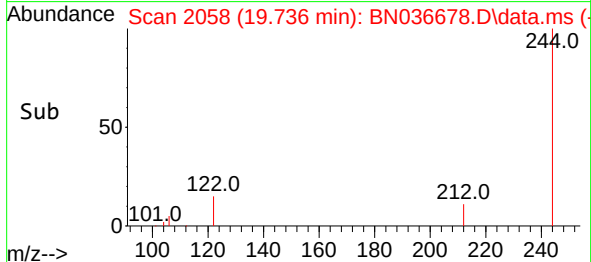
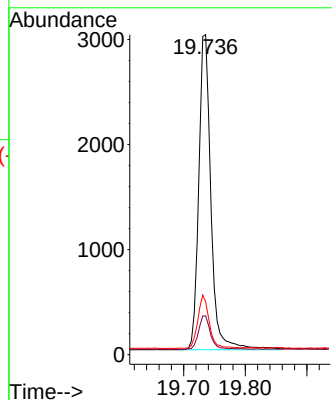
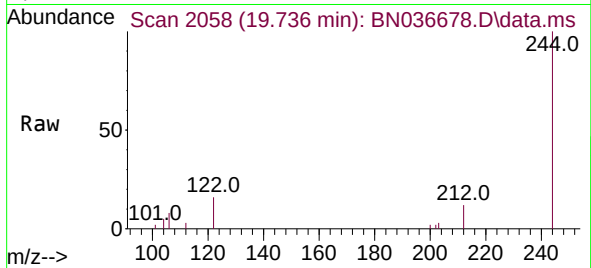




#31
Terphenyl-d14
Concen: 0.486 ng
RT: 19.736 min Scan# 2060
Delta R.T. -0.009 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

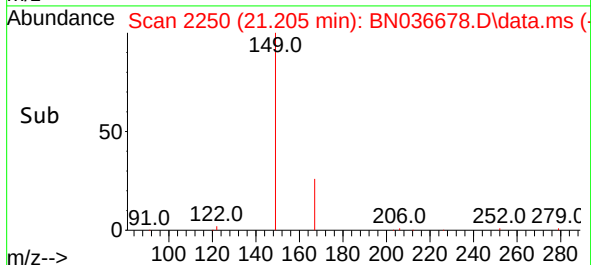
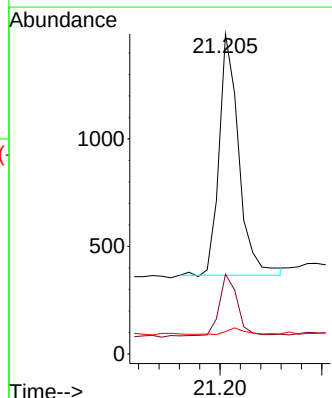
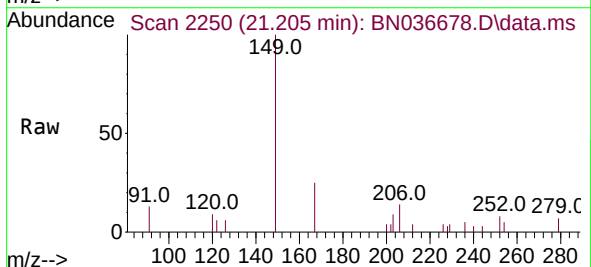
Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

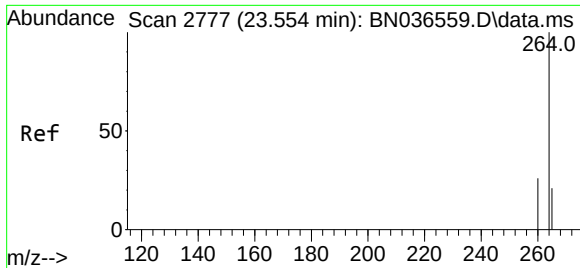
Tgt Ion:244 Resp: 4135
Ion Ratio Lower Upper
244 100
212 12.1 9.6 14.4
122 16.5 13.9 20.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.172 ng
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion:149 Resp: 1509
Ion Ratio Lower Upper
149 100
167 23.2 20.7 31.1
279 2.3 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.546 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036678.D

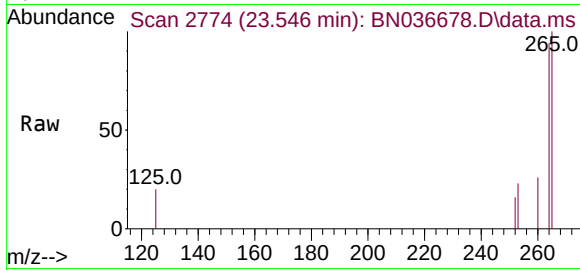
Acq: 18 Mar 2025 03:04

Instrument :

BNA_N

ClientSampleId :

DUP06-20250314



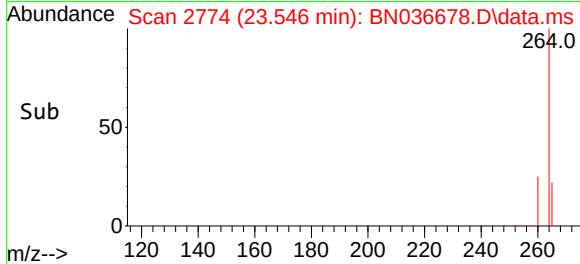
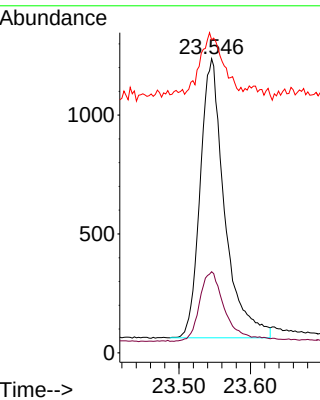
Tgt Ion:264 Resp: 2795

Ion Ratio Lower Upper

264 100

260 27.6 22.6 33.8

265 106.5 88.1 132.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
 Data File : BN036680.D
 Acq On : 18 Mar 2025 04:16
 Operator : RC/JU
 Sample : PB167159BSD
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB167159BSD

Quant Time: Mar 18 05:22:27 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

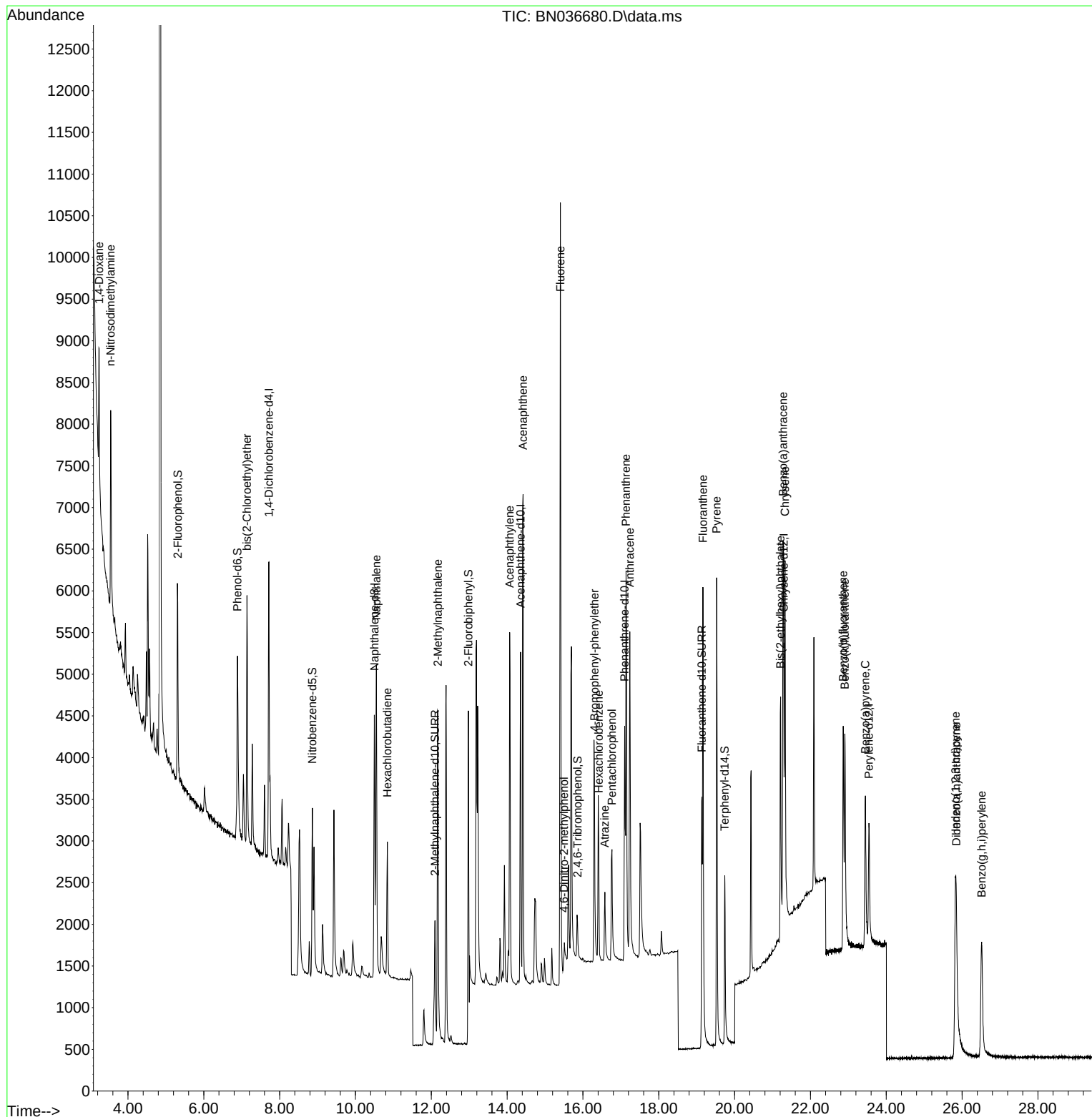
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1799	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4271	0.400	ng	-0.01
13) Acenaphthene-d10	14.355	164	2251	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	4157	0.400	ng	-0.01
29) Chrysene-d12	21.295	240	2623	0.400	ng	0.00
35) Perylene-d12	23.543	264	2261	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1820	0.434	ng	0.00
5) Phenol-d6	6.886	99	2092	0.404	ng	-0.01
8) Nitrobenzene-d5	8.864	82	1743	0.375	ng	-0.01
11) 2-Methylnaphthalene-d10	12.096	152	3241	0.510	ng	-0.02
14) 2,4,6-Tribromophenol	15.858	330	376	0.368	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	5679	0.434	ng	-0.01
27) Fluoranthene-d10	19.136	212	4030	0.378	ng	0.00
31) Terphenyl-d14	19.740	244	2694	0.429	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	760	0.381	ng	# 30
3) n-Nitrosodimethylamine	3.543	42	1942	0.481	ng	# 87
6) bis(2-Chloroethyl)ether	7.139	93	2145	0.401	ng	98
9) Naphthalene	10.551	128	5272	0.420	ng	100
10) Hexachlorobutadiene	10.840	225	1272	0.430	ng	# 97
12) 2-Methylnaphthalene	12.172	142	3367	0.421	ng	99
16) Acenaphthylene	14.067	152	4978	0.469	ng	99
17) Acenaphthene	14.420	154	3108	0.447	ng	99
18) Fluorene	15.403	166	4054	0.431	ng	99
20) 4,6-Dinitro-2-methylph...	15.499	198	311	0.439	ng	85
21) 4-Bromophenyl-phenylether	16.304	248	1135	0.436	ng	# 82
22) Hexachlorobenzene	16.416	284	1408	0.448	ng	94
23) Atrazine	16.577	200	1005	0.481	ng	95
24) Pentachlorophenol	16.764	266	942	0.657	ng	98
25) Phenanthrene	17.136	178	5745	0.461	ng	100
26) Anthracene	17.235	178	5301	0.471	ng	99
28) Fluoranthene	19.164	202	5883	0.420	ng	98
30) Pyrene	19.527	202	6026	0.470	ng	100
32) Benzo(a)anthracene	21.277	228	3958	0.434	ng	99
33) Chrysene	21.331	228	4801	0.482	ng	99
34) Bis(2-ethylhexyl)phtha...	21.205	149	2813	0.433	ng	97
36) Indeno(1,2,3-cd)pyrene	25.826	276	3886	0.476	ng	96
37) Benzo(b)fluoranthene	22.864	252	3639	0.442	ng	97
38) Benzo(k)fluoranthene	22.908	252	4097	0.475	ng	97
39) Benzo(a)pyrene	23.446	252	3391	0.489	ng	96
40) Dibenzo(a,h)anthracene	25.846	278	3209	0.505	ng	95
41) Benzo(g,h,i)perylene	26.516	276	3330	0.458	ng	98

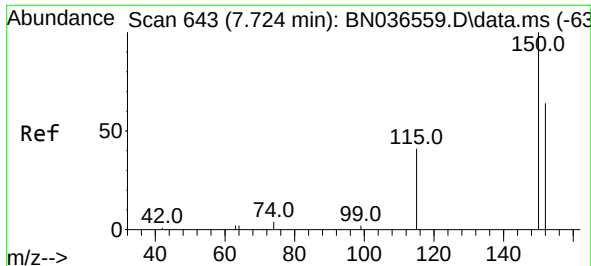
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036680.D
Acq On : 18 Mar 2025 04:16
Operator : RC/JU
Sample : PB167159BSD
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Quant Time: Mar 18 05:22:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



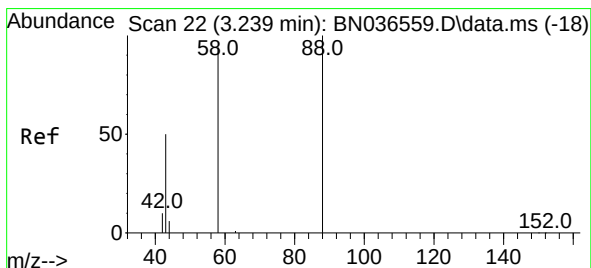
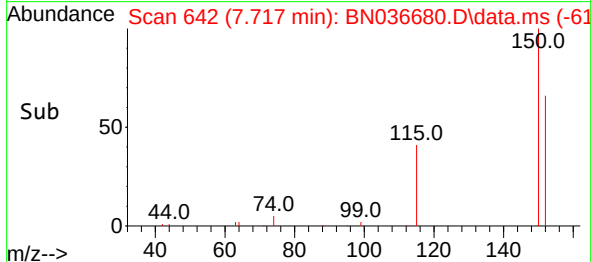
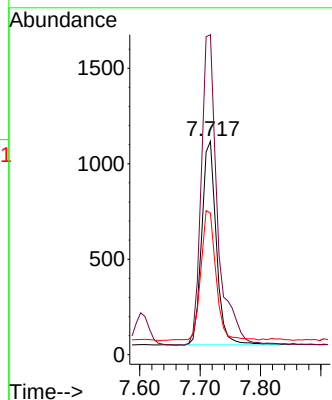
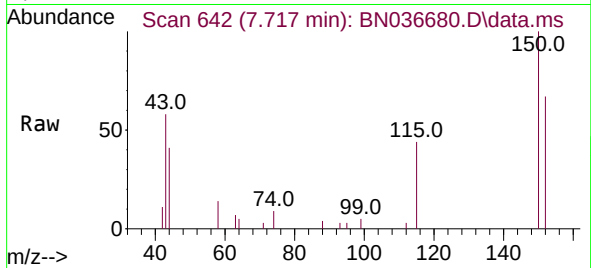


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.717 min Scan# 64
 Delta R.T. -0.007 min
 Lab File: BN036680.D
 Acq: 18 Mar 2025 04:16

Instrument :
 BNA_N
 ClientSampleId :
 PB167159BSD

Tgt Ion:152 Resp: 1799

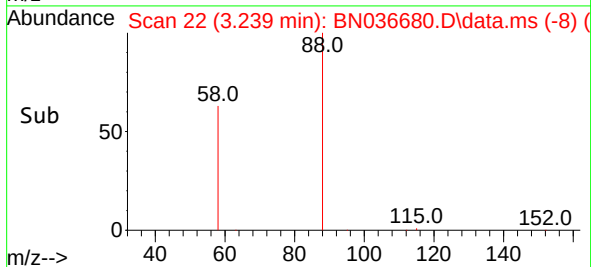
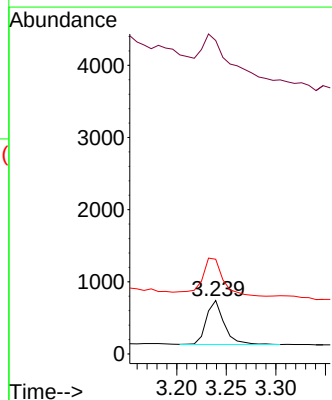
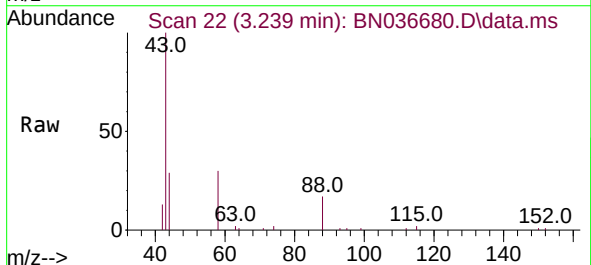
Ion	Ratio	Lower	Upper
152	100		
150	149.9	123.7	185.5
115	66.4	54.3	81.5

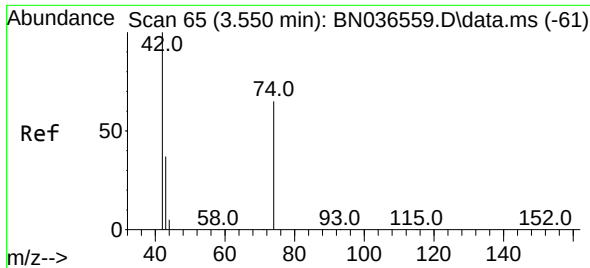


#2
 1,4-Dioxane
 Concen: 0.381 ng
 RT: 3.239 min Scan# 22
 Delta R.T. 0.000 min
 Lab File: BN036680.D
 Acq: 18 Mar 2025 04:16

Tgt Ion: 88 Resp: 760

Ion	Ratio	Lower	Upper
88	100		
43	153.4	37.8	56.8#
58	102.4	67.4	101.2#

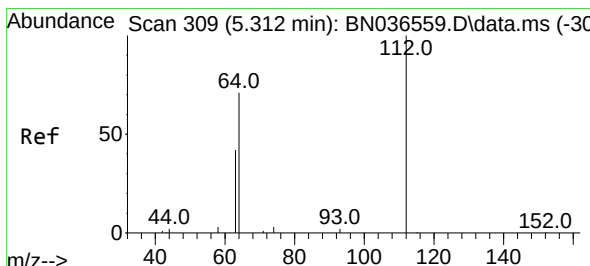
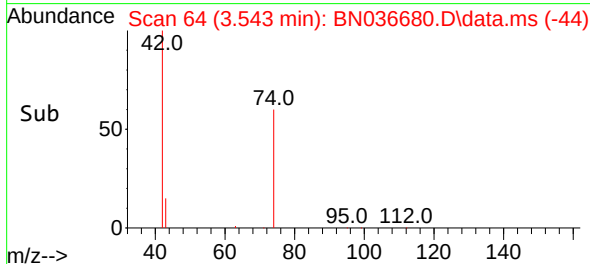
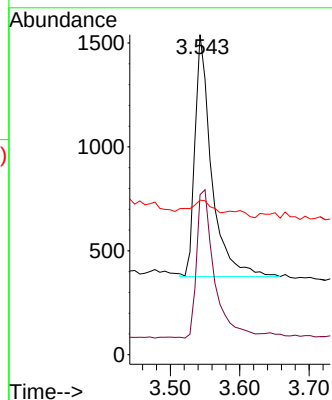
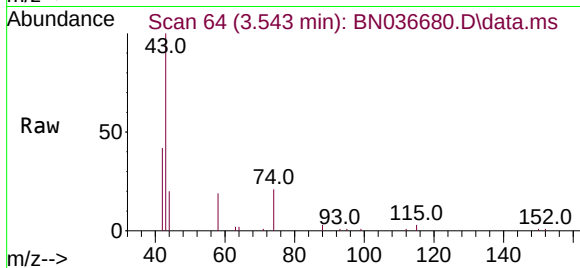




#3
 n-Nitrosodimethylamine
 Concen: 0.481 ng
 RT: 3.543 min Scan# 64
 Delta R.T. -0.007 min
 Lab File: BN036680.D
 Acq: 18 Mar 2025 04:16

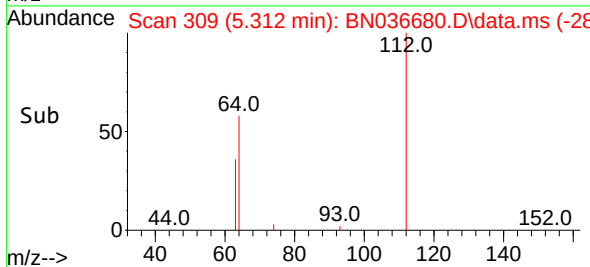
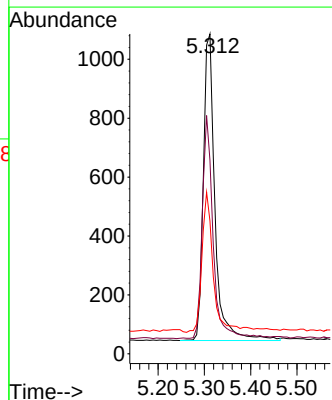
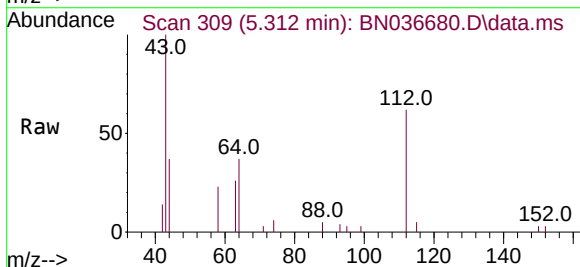
Instrument :
 BNA_N
 ClientSampleId :
 PB167159BSD

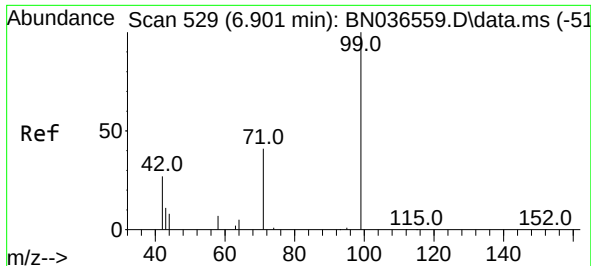
Tgt Ion: 42 Resp: 1942
 Ion Ratio Lower Upper
 42 100
 74 64.5 60.6 90.8
 44 5.4 6.3 9.5#



#4
 2-Fluorophenol
 Concen: 0.434 ng
 RT: 5.312 min Scan# 309
 Delta R.T. 0.000 min
 Lab File: BN036680.D
 Acq: 18 Mar 2025 04:16

Tgt Ion: 112 Resp: 1820
 Ion Ratio Lower Upper
 112 100
 64 67.6 53.1 79.7
 63 43.4 31.8 47.8

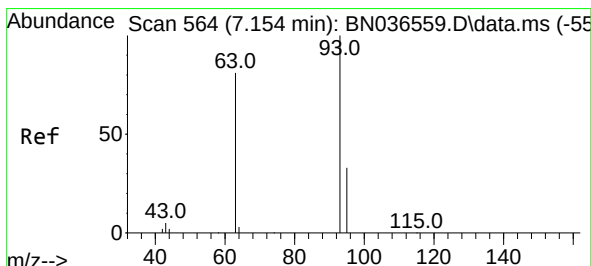
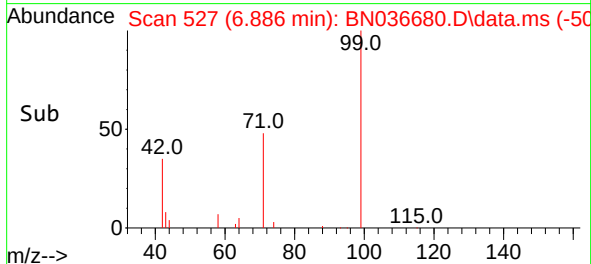
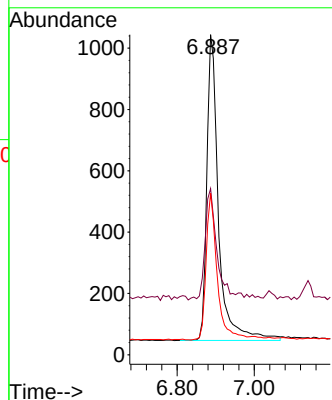
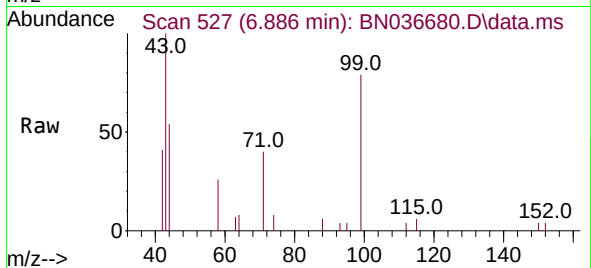




#5
Phenol-d6
Concen: 0.404 ng
RT: 6.886 min Scan# 51
Delta R.T. -0.014 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

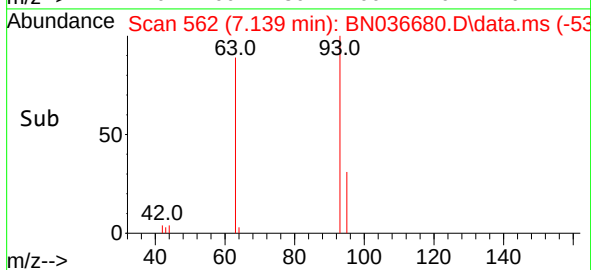
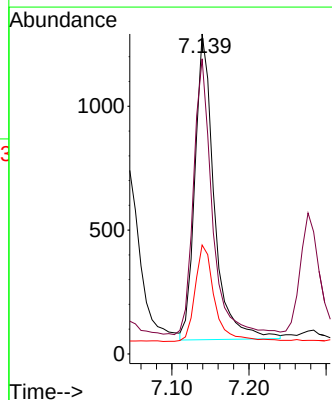
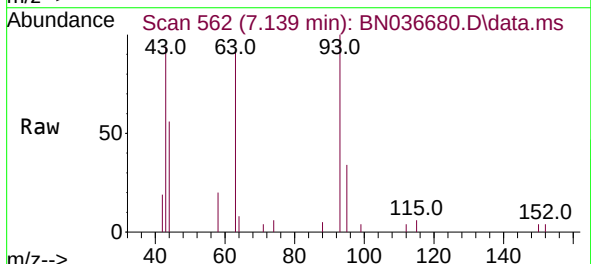
Instrument :
BNA_N
ClientSampleId :
PB167159BSD

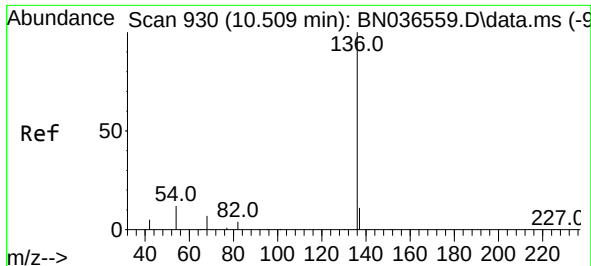
Tgt Ion:	99	Resp:	2092
Ion	Ratio	Lower	Upper
99	100		
42	36.4	26.5	39.7
71	45.5	34.1	51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.401 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.014 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:	93	Resp:	2145
Ion	Ratio	Lower	Upper
93	100		
63	87.1	67.7	101.5
95	32.2	25.6	38.4

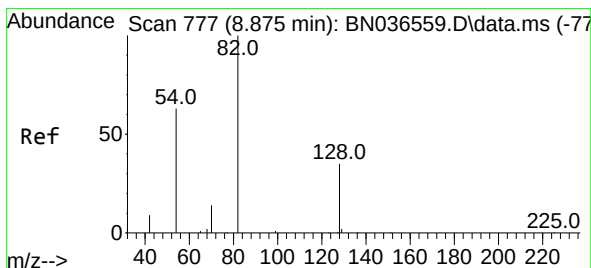
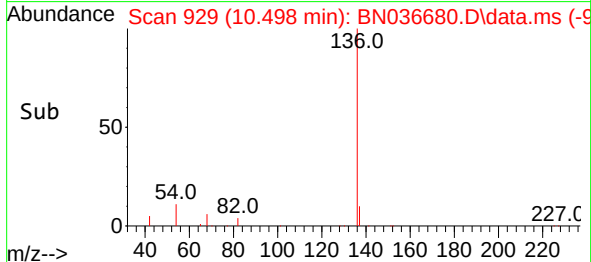
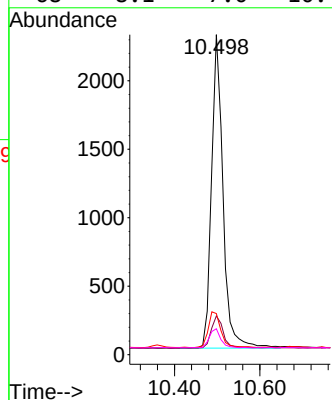
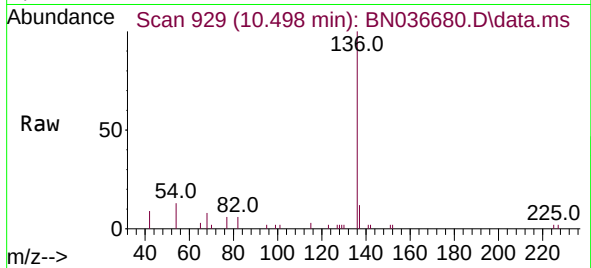




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

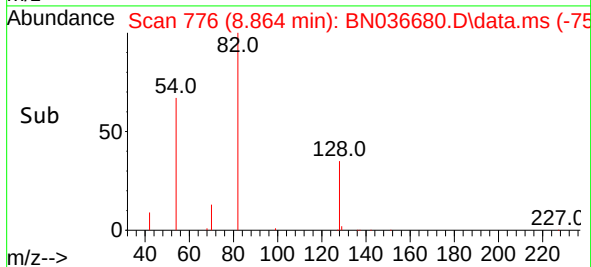
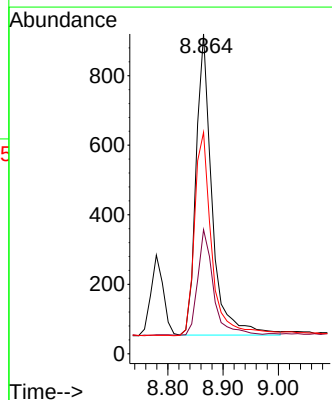
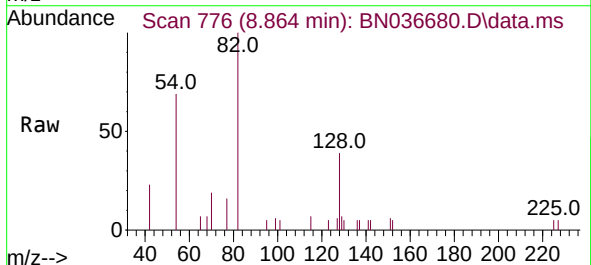
Instrument :
BNA_N
ClientSampleId :
PB167159BSD

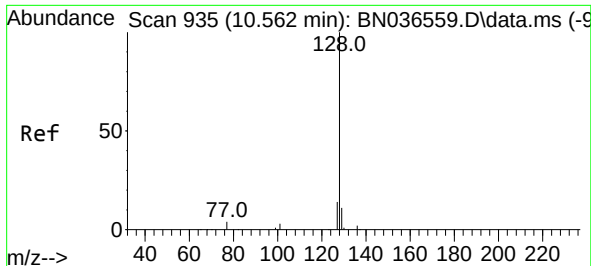
Tgt Ion:136	Resp:	4271
Ion Ratio	Lower	Upper
136	100	
137	12.1	10.3 15.5
54	12.9	11.5 17.3
68	8.1	7.0 10.4



#8
Nitrobenzene-d5
Concen: 0.375 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion: 82	Resp:	1743
Ion Ratio	Lower	Upper
82	100	
128	38.8	30.6 45.8
54	69.2	52.2 78.4

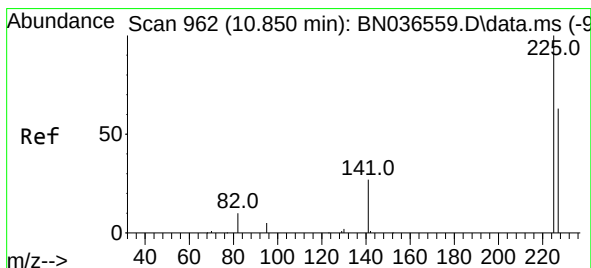
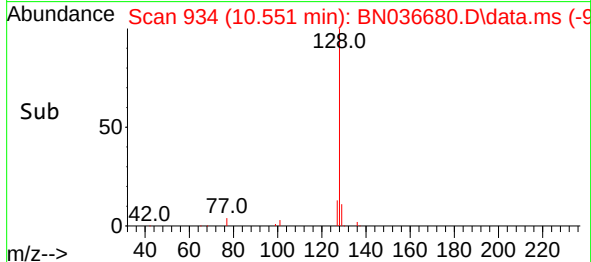
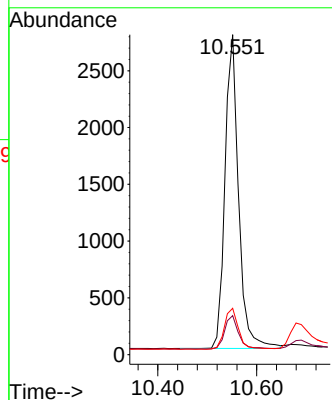
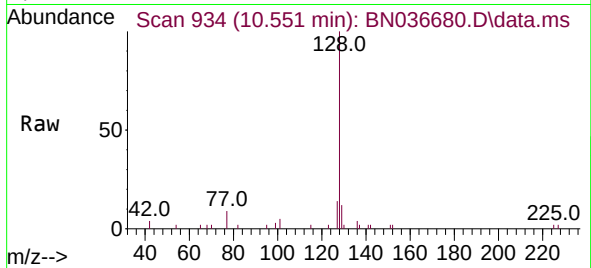




#9
Naphthalene
Concen: 0.420 ng
RT: 10.551 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

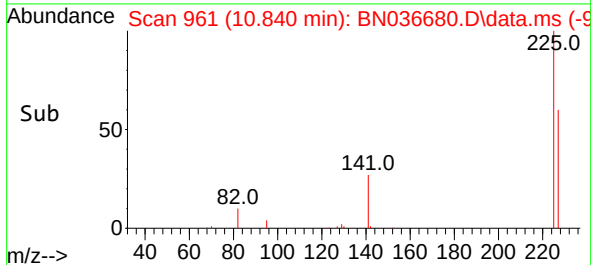
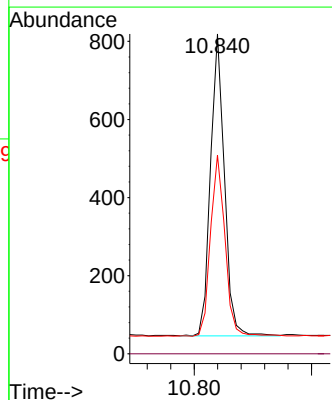
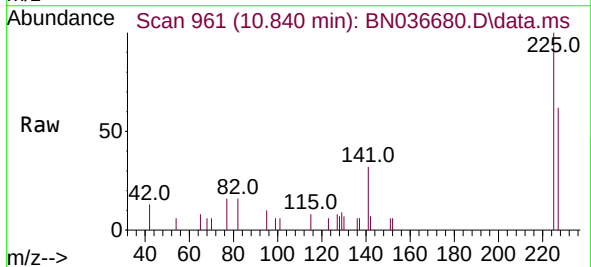
Instrument :
BNA_N
ClientSampleId :
PB167159BSD

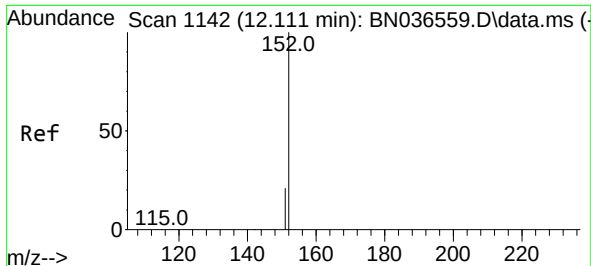
Tgt Ion:	128	Resp:	5272
Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.5	11.8	17.8



#10
Hexachlorobutadiene
Concen: 0.430 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:	225	Resp:	1272
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.7	51.8	77.8

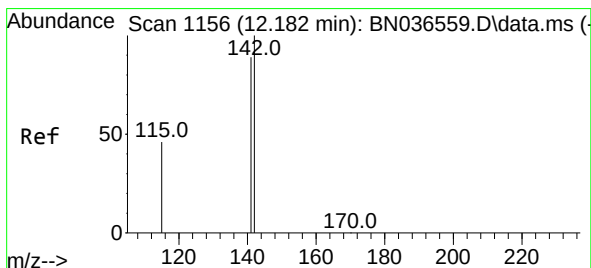
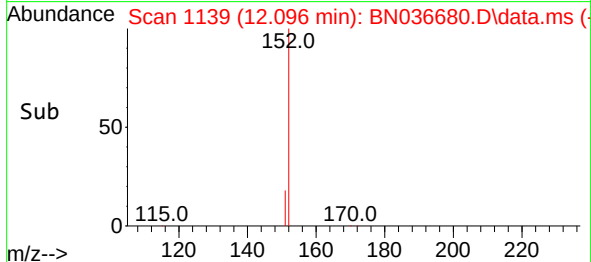
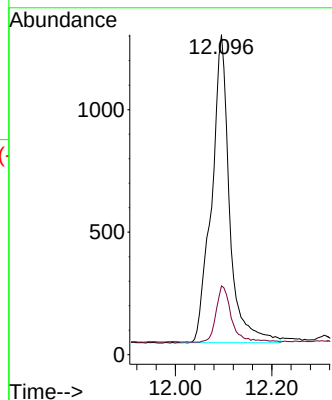
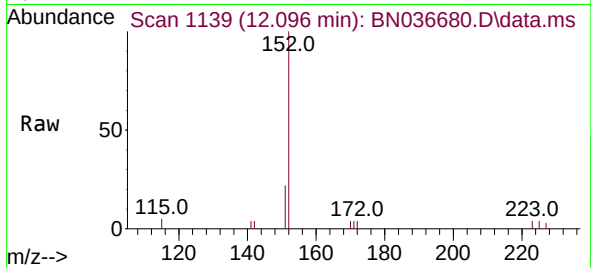




#11
2-Methylnaphthalene-d10
Concen: 0.510 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

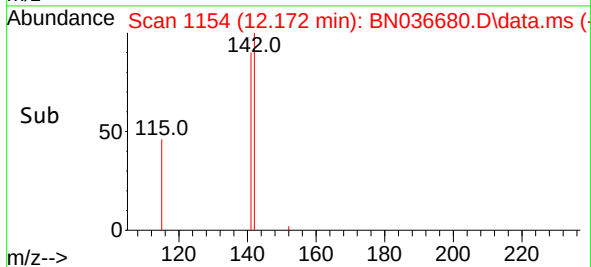
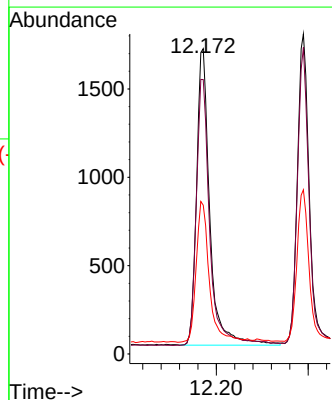
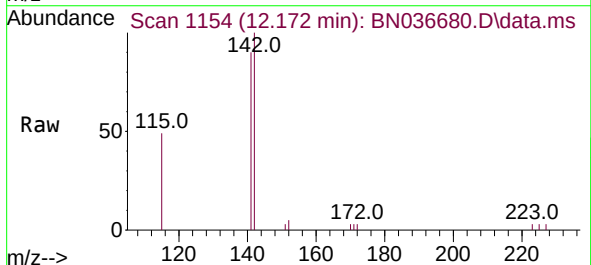
Instrument :
BNA_N
ClientSampleId :
PB167159BSD

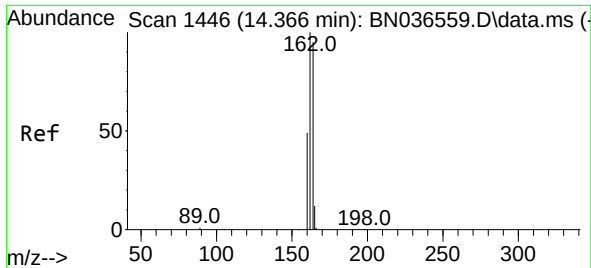
Tgt Ion:152 Resp: 3241
Ion Ratio Lower Upper
152 100
151 15.9 17.0 25.6#



#12
2-Methylnaphthalene
Concen: 0.421 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:142 Resp: 3367
Ion Ratio Lower Upper
142 100
141 89.9 71.7 107.5
115 48.7 38.3 57.5

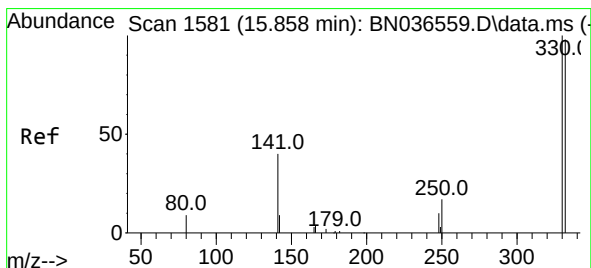
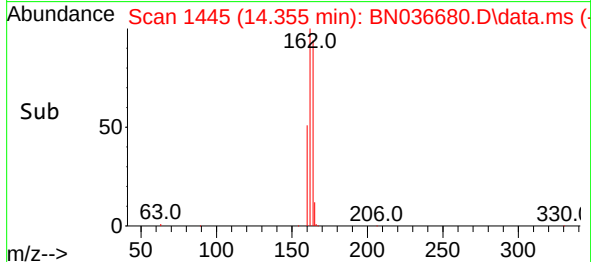
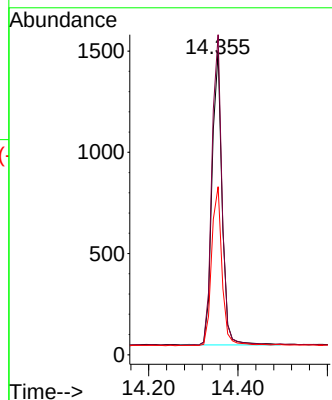
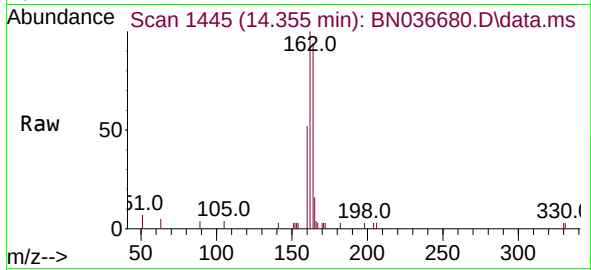




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

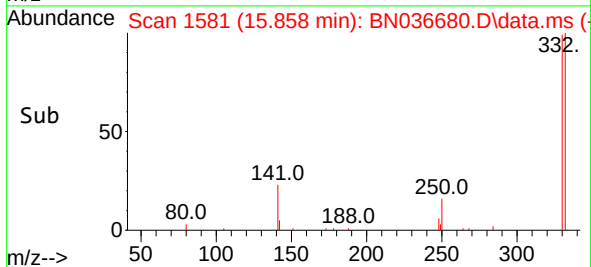
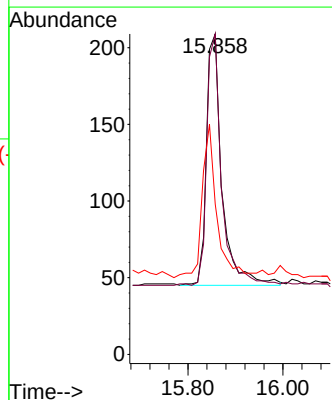
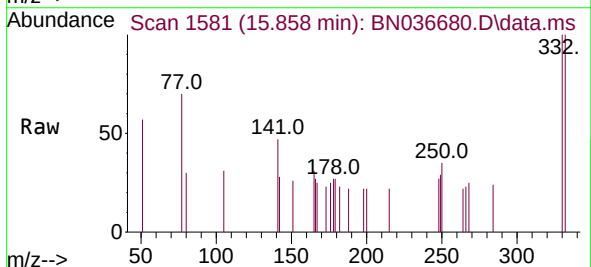
Instrument :
BNA_N
ClientSampleId :
PB167159BSD

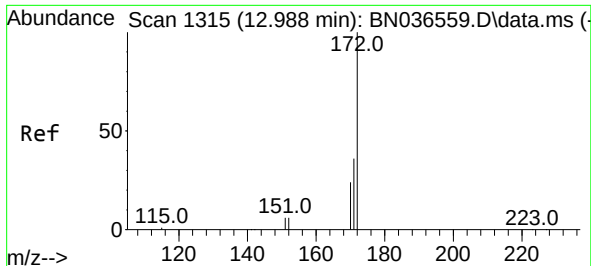
Tgt Ion:164 Resp: 2251
Ion Ratio Lower Upper
164 100
162 106.0 84.2 126.2
160 55.7 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.368 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:330 Resp: 376
Ion Ratio Lower Upper
330 100
332 95.7 75.2 112.8
141 56.4 43.4 65.2

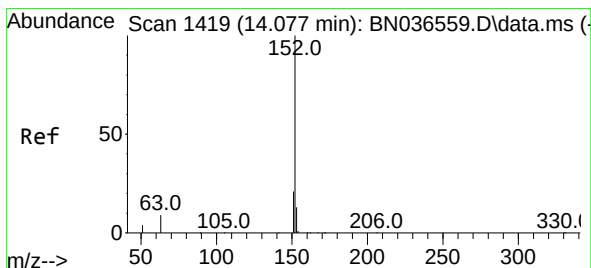
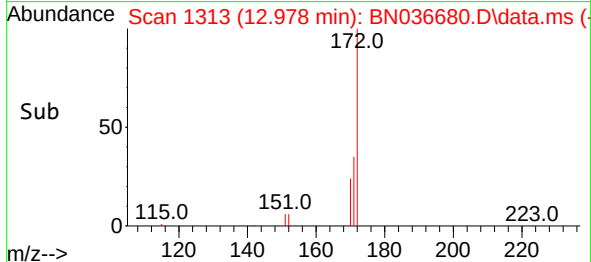
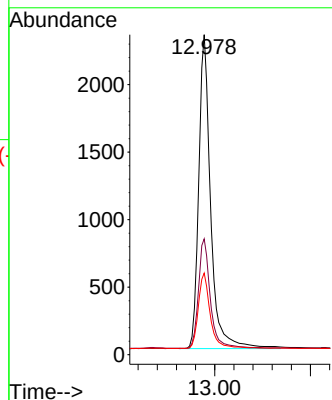
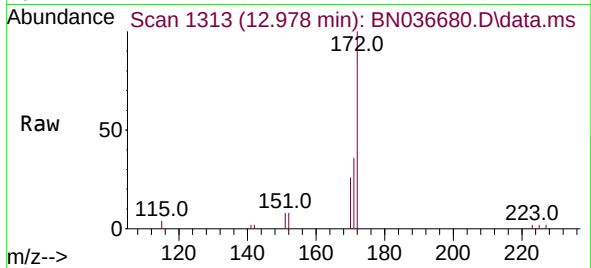




#15
2-Fluorobiphenyl
Concen: 0.434 ng
RT: 12.978 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

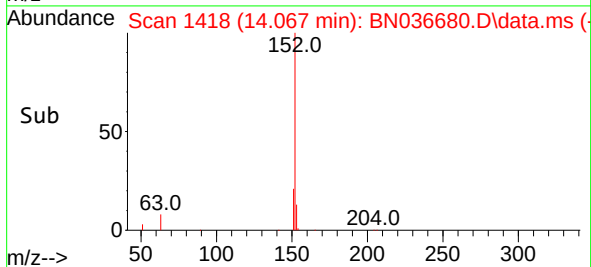
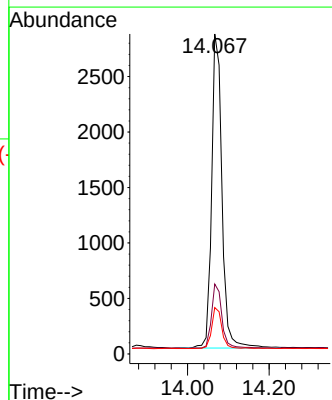
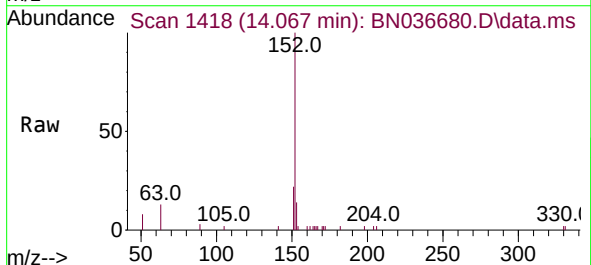
Instrument :
BNA_N
ClientSampleId :
PB167159BSD

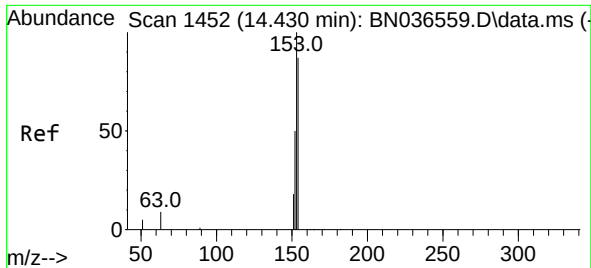
Tgt Ion:172 Resp: 5679
Ion Ratio Lower Upper
172 100
171 36.2 29.5 44.3
170 25.5 20.2 30.4



#16
Acenaphthylene
Concen: 0.469 ng
RT: 14.067 min Scan# 1418
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

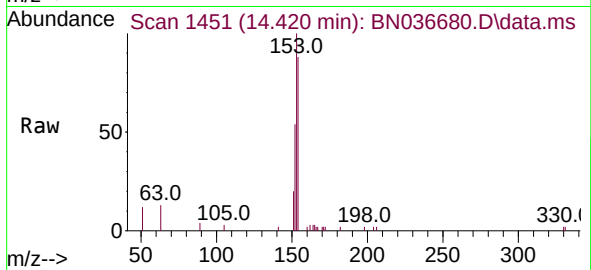
Tgt Ion:152 Resp: 4978
Ion Ratio Lower Upper
152 100
151 20.8 16.2 24.4
153 13.2 10.6 15.8



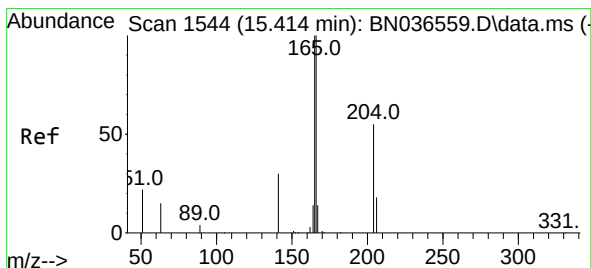
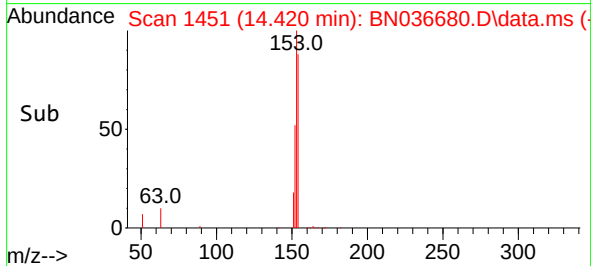
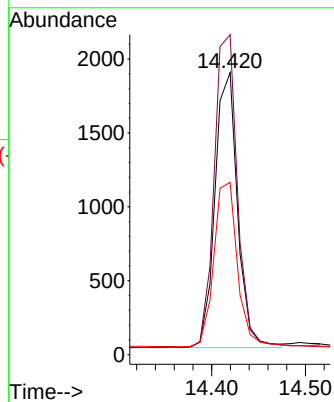


#17
Acenaphthene
Concen: 0.447 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

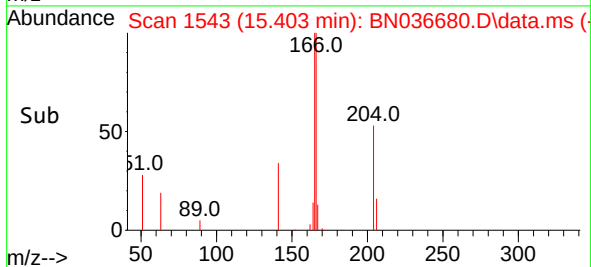
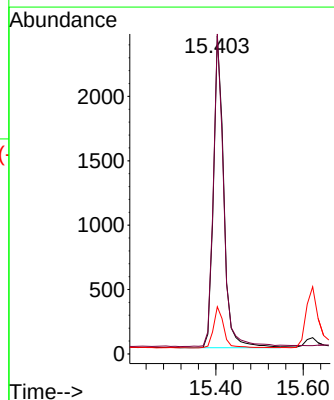
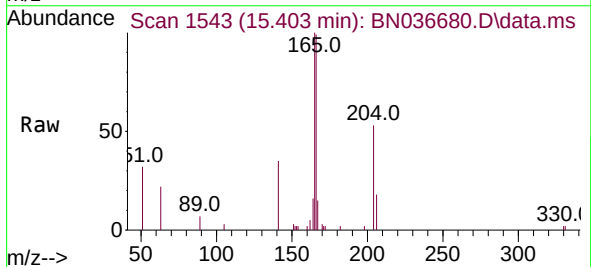


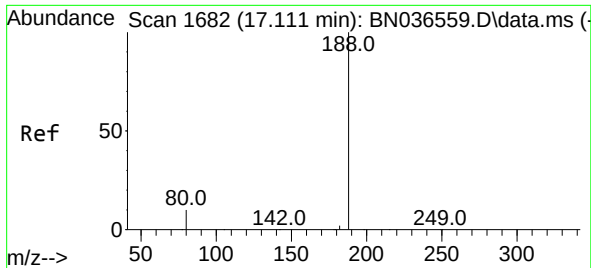
Tgt Ion:154 Resp: 3108
Ion Ratio Lower Upper
154 100
153 118.5 94.1 141.1
152 62.8 49.8 74.6



#18
Fluorene
Concen: 0.431 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:166 Resp: 4054
Ion Ratio Lower Upper
166 100
165 98.7 79.8 119.8
167 13.2 10.6 15.8

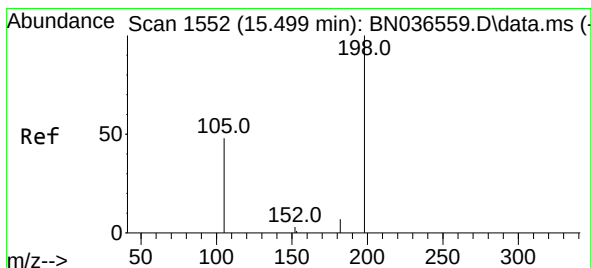
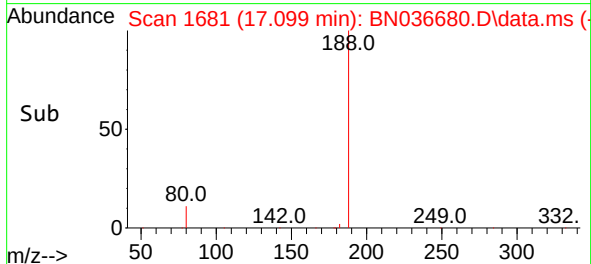
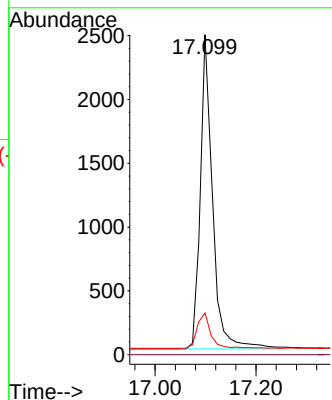
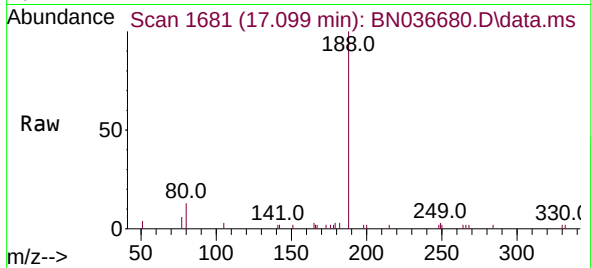




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

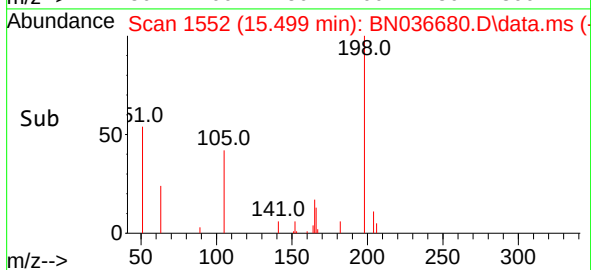
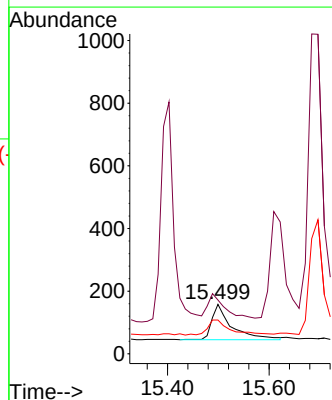
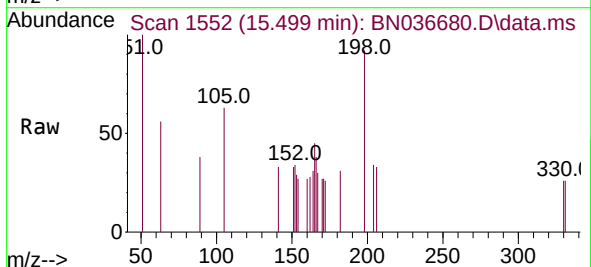
Instrument :
BNA_N
ClientSampleId :
PB167159BSD

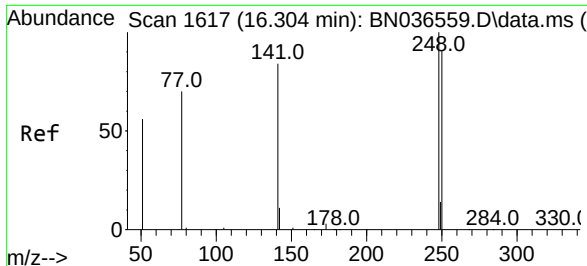
Tgt Ion:188 Resp: 4157
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.0 8.8 13.2



#20
4,6-Dinitro-2-methylphenol
Concen: 0.439 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:198 Resp: 311
Ion Ratio Lower Upper
198 100
51 108.9 107.9 161.9
105 68.4 56.2 84.2

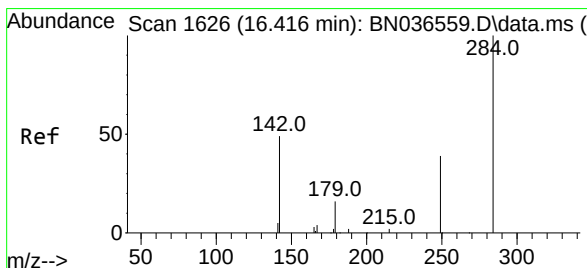
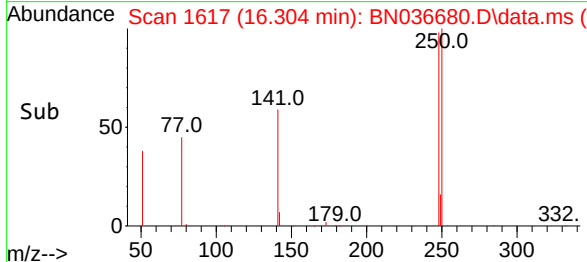
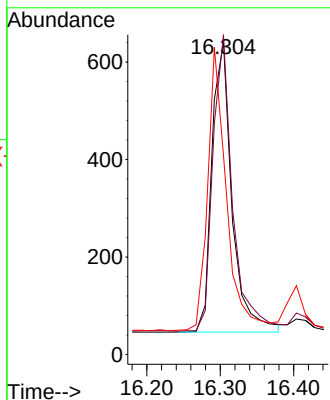
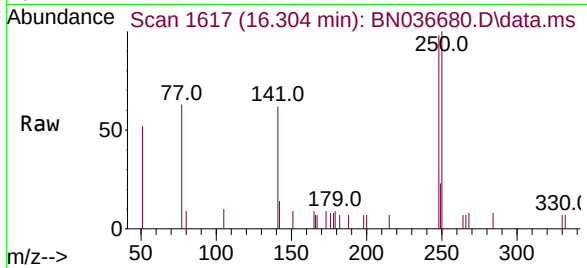




#21
4-Bromophenyl-phenylether
Concen: 0.436 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

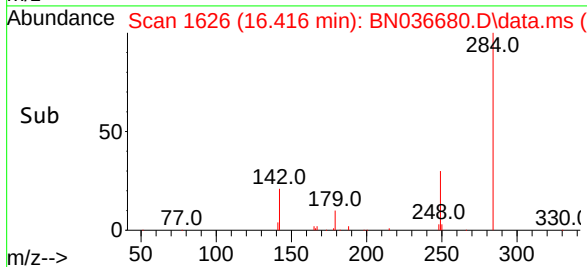
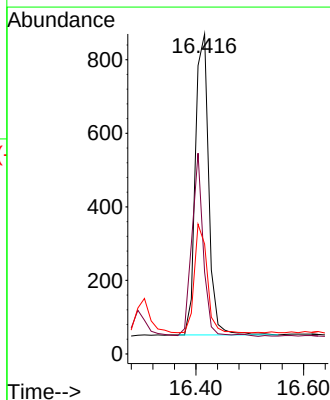
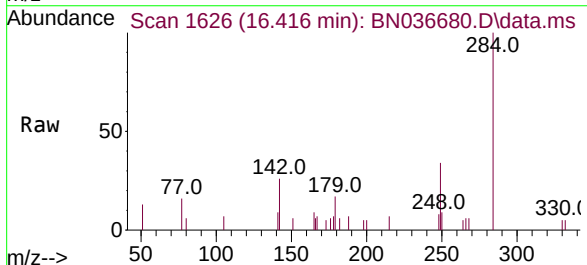
Instrument :
BNA_N
ClientSampleId :
PB167159BSD

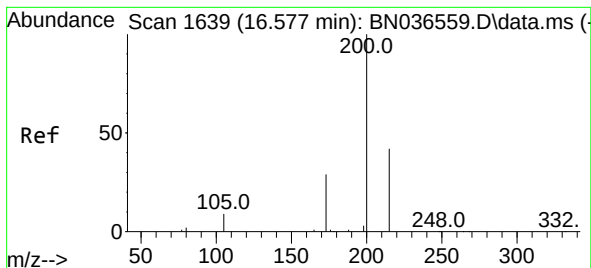
Tgt Ion:248 Resp: 1135
Ion Ratio Lower Upper
248 100
250 102.3 73.0 109.6
141 63.8 68.6 103.0#



#22
Hexachlorobenzene
Concen: 0.448 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:284 Resp: 1408
Ion Ratio Lower Upper
284 100
142 52.8 37.0 55.4
249 35.0 28.1 42.1





#23

Atrazine

Concen: 0.481 ng

RT: 16.577 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036680.D

Acq: 18 Mar 2025 04:16

Instrument :

BNA_N

ClientSampleId :

PB167159BSD

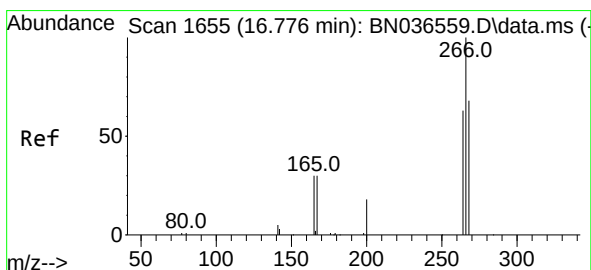
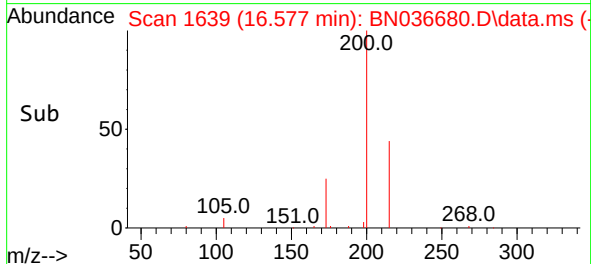
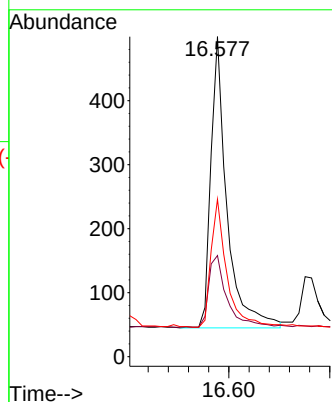
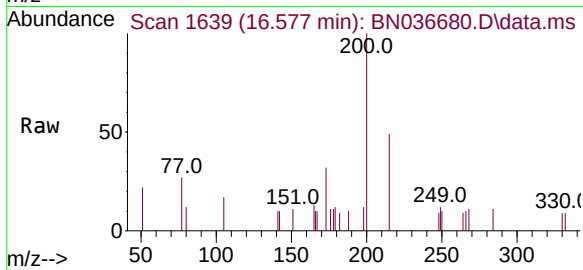
Tgt Ion:200 Resp: 1005

Ion Ratio Lower Upper

200 100

173 31.6 27.3 40.9

215 49.2 36.8 55.2



#24

Pentachlorophenol

Concen: 0.657 ng

RT: 16.764 min Scan# 1654

Delta R.T. -0.012 min

Lab File: BN036680.D

Acq: 18 Mar 2025 04:16

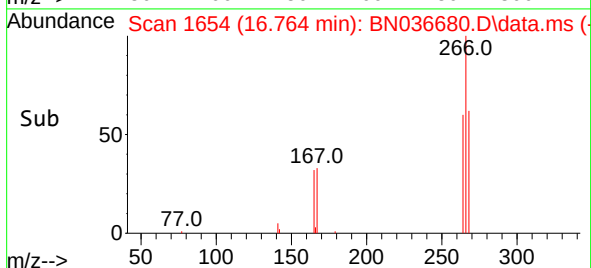
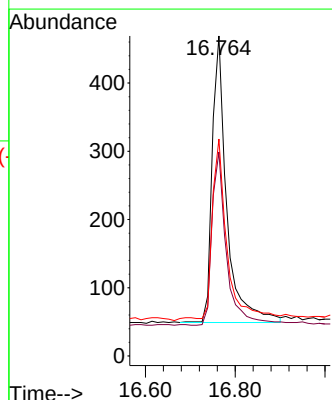
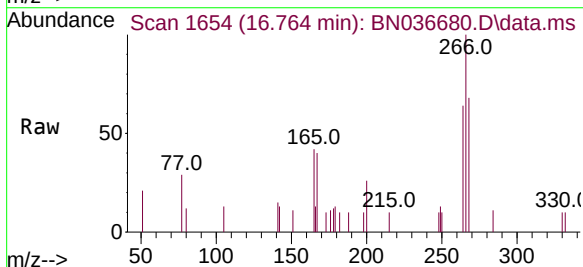
Tgt Ion:266 Resp: 942

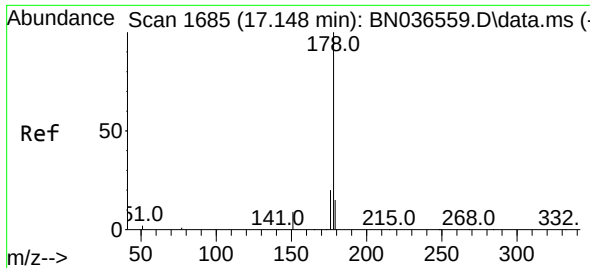
Ion Ratio Lower Upper

266 100

264 60.7 49.6 74.4

268 61.6 50.9 76.3

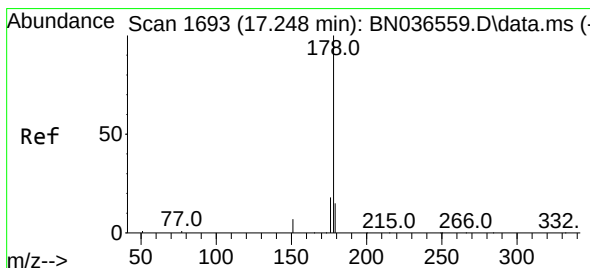
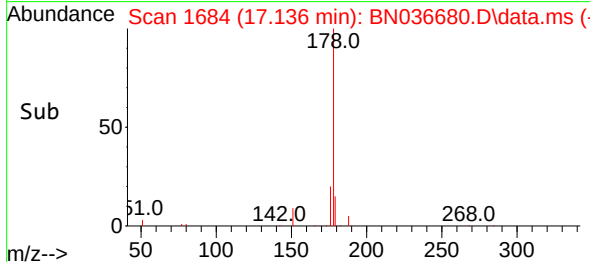
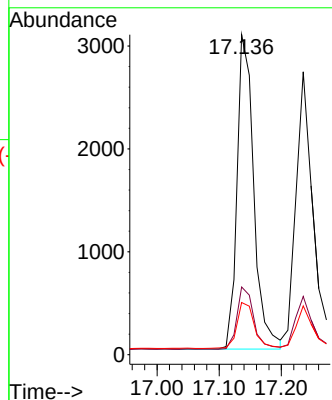
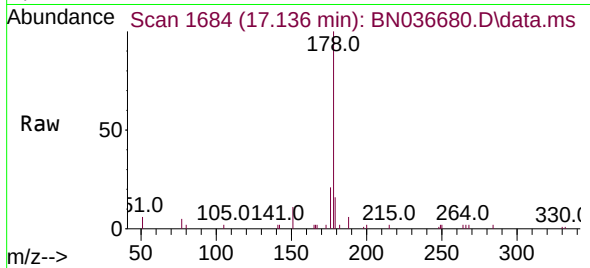




#25
Phenanthrene
Concen: 0.461 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.012 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

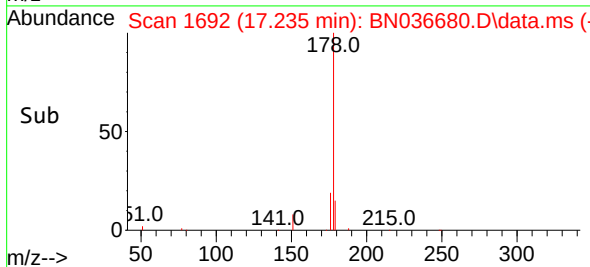
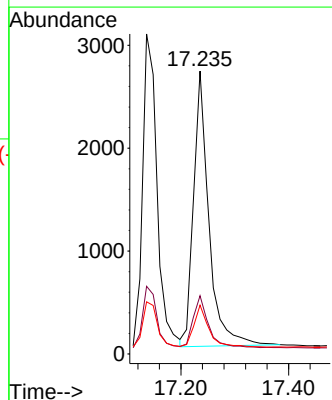
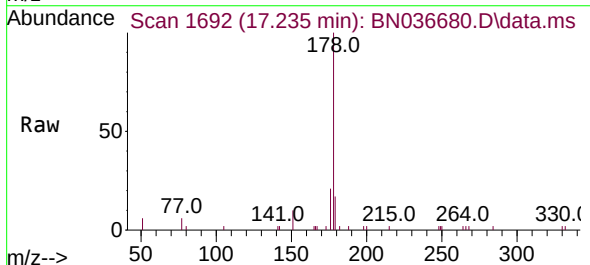
Instrument :
BNA_N
ClientSampleId :
PB167159BSD

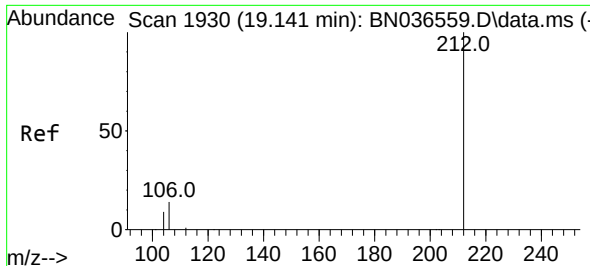
Tgt Ion:178 Resp: 5745
Ion Ratio Lower Upper
178 100
176 19.8 15.9 23.9
179 15.2 12.2 18.4



#26
Anthracene
Concen: 0.471 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:178 Resp: 5301
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.1 12.6 18.8

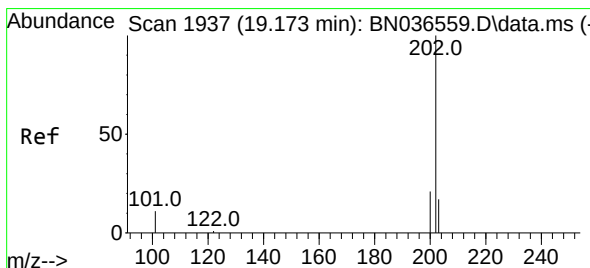
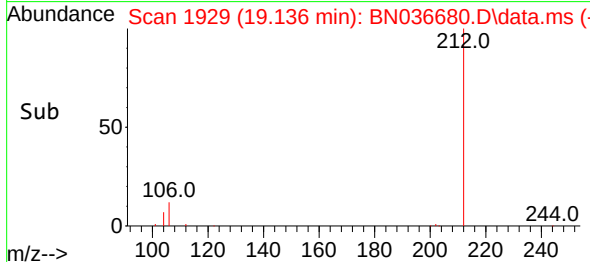
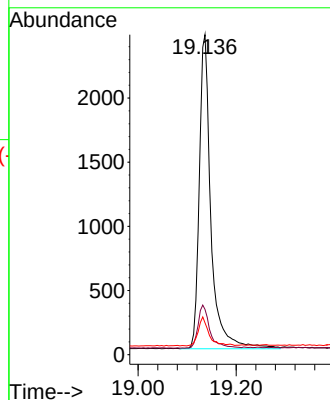
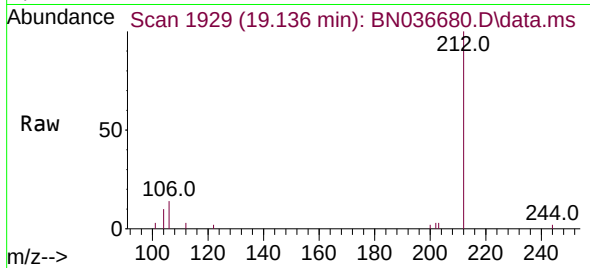




#27
Fluoranthene-d10
Concen: 0.378 ng
RT: 19.136 min Scan# 1929
Delta R.T. -0.005 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

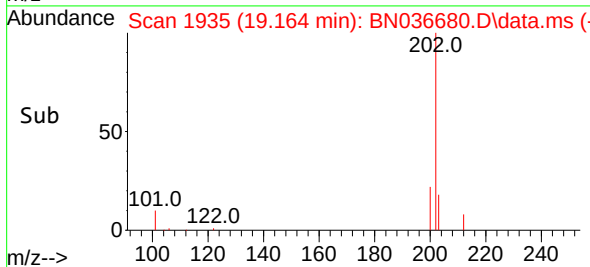
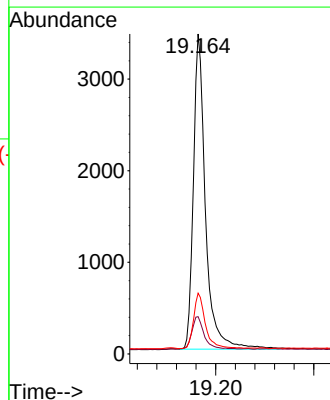
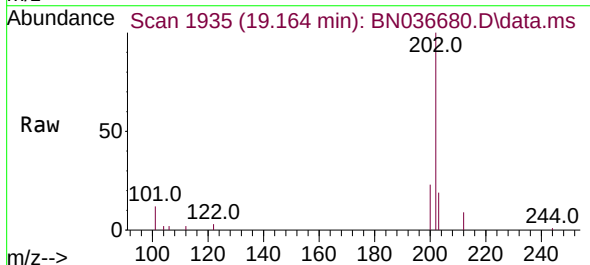
Instrument :
BNA_N
ClientSampleId :
PB167159BSD

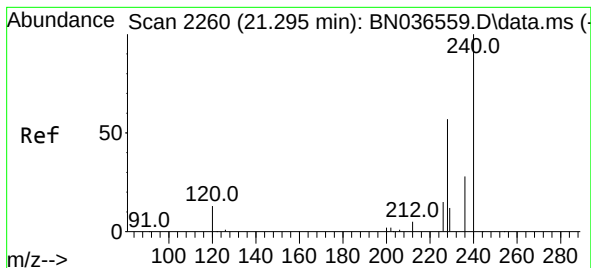
Tgt Ion:212 Resp: 4030
Ion Ratio Lower Upper
212 100
106 13.8 11.8 17.6
104 8.5 7.3 10.9



#28
Fluoranthene
Concen: 0.420 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:202 Resp: 5883
Ion Ratio Lower Upper
202 100
101 10.4 9.4 14.0
203 17.0 13.5 20.3

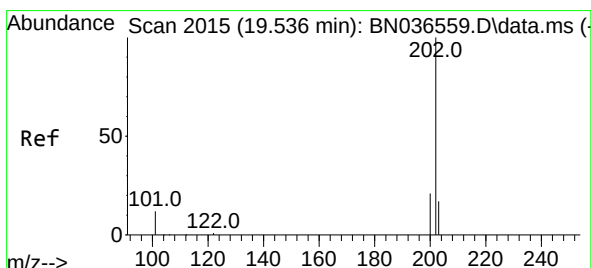
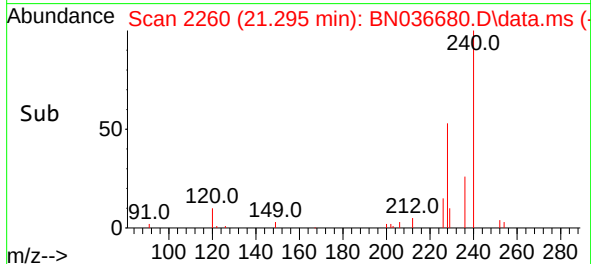
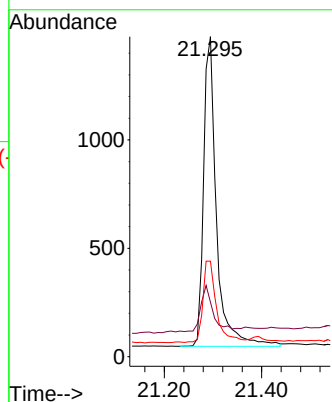
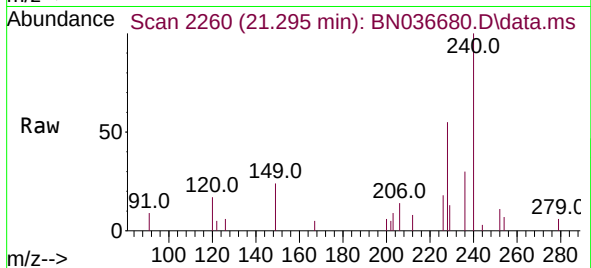




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

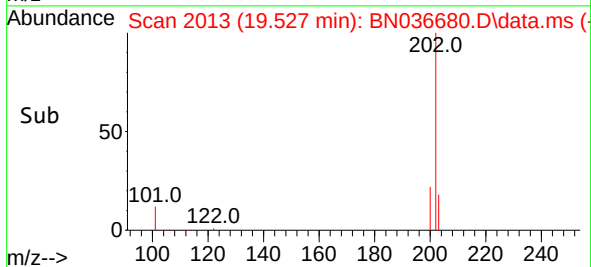
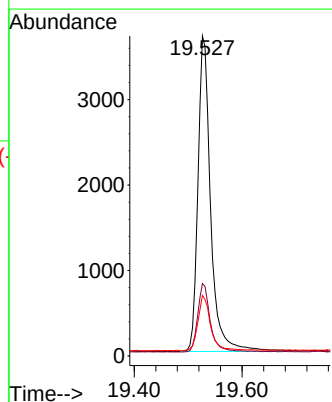
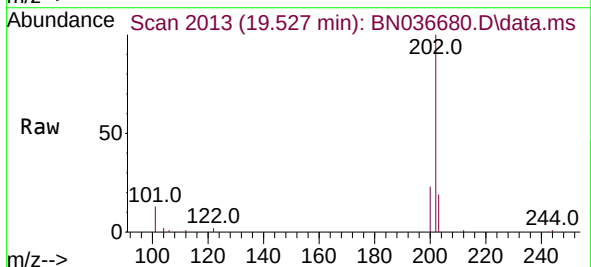
Instrument :
BNA_N
ClientSampleId :
PB167159BSD

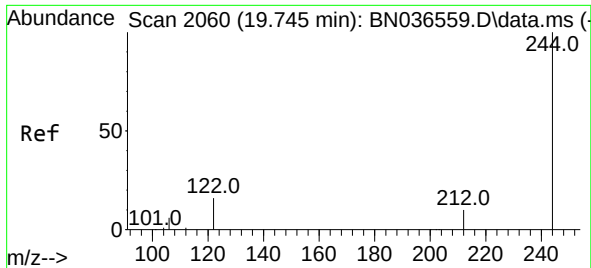
Tgt Ion:240 Resp: 2623
Ion Ratio Lower Upper
240 100
120 17.1 14.6 22.0
236 29.9 24.1 36.1



#30
Pyrene
Concen: 0.470 ng
RT: 19.527 min Scan# 2013
Delta R.T. -0.009 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

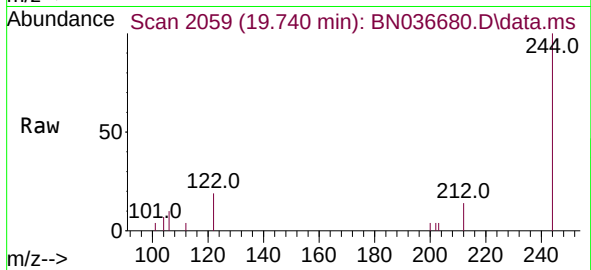
Tgt Ion:202 Resp: 6026
Ion Ratio Lower Upper
202 100
200 21.3 17.1 25.7
203 17.5 14.1 21.1



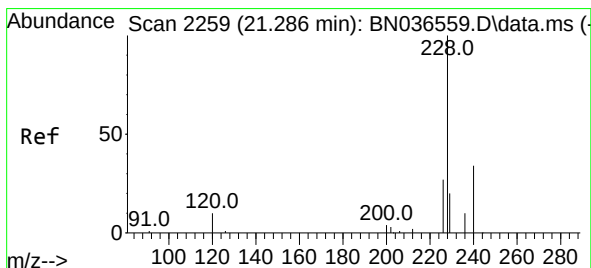
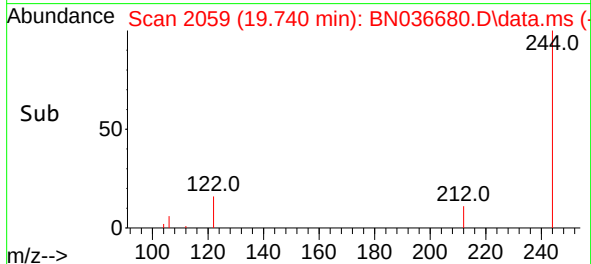
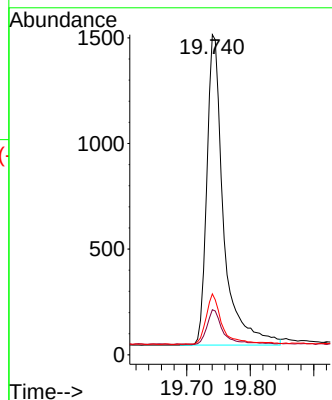


#31
Terphenyl-d14
Concen: 0.429 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

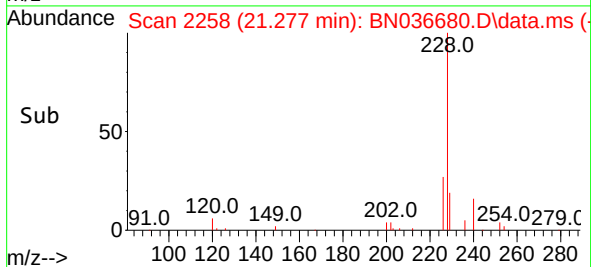
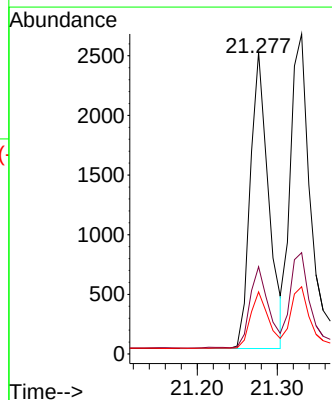
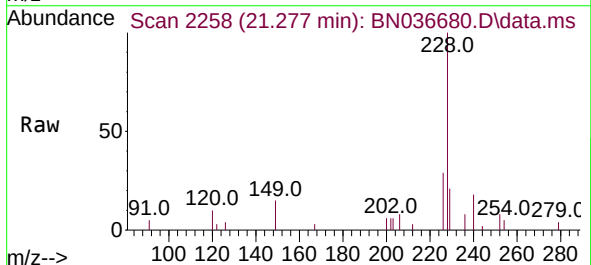


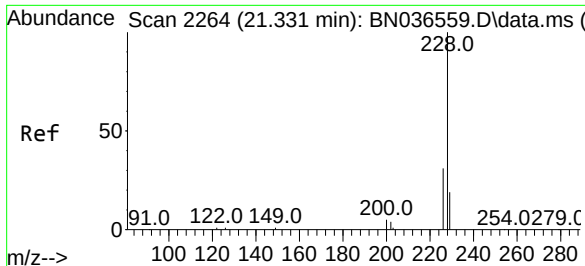
Tgt Ion:244 Resp: 2694
Ion Ratio Lower Upper
244 100
212 14.1 9.6 14.4
122 19.0 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.434 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:228 Resp: 3958
Ion Ratio Lower Upper
228 100
226 28.9 22.5 33.7
229 20.6 16.6 25.0

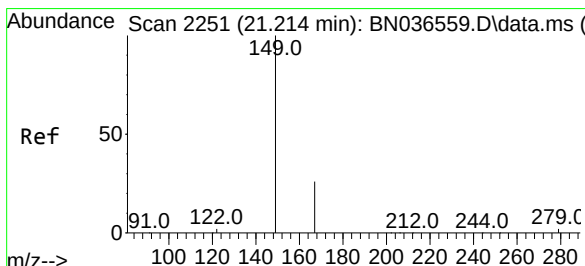
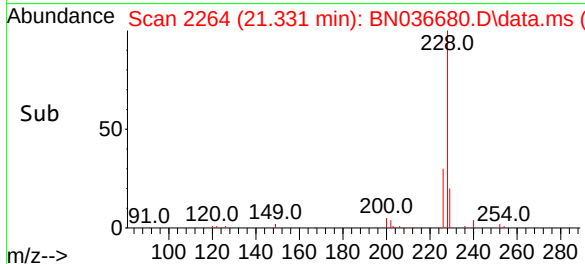
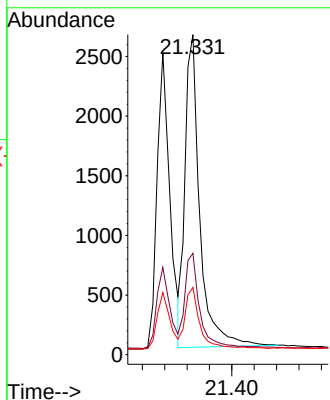
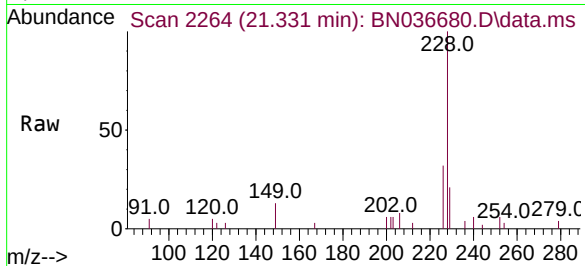




#33
Chrysene
Concen: 0.482 ng
RT: 21.331 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

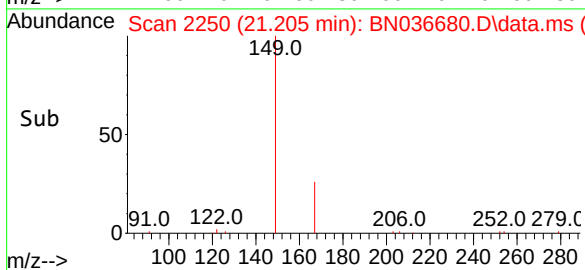
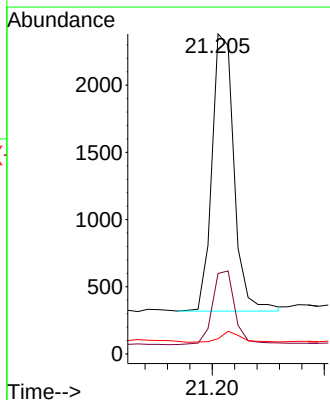
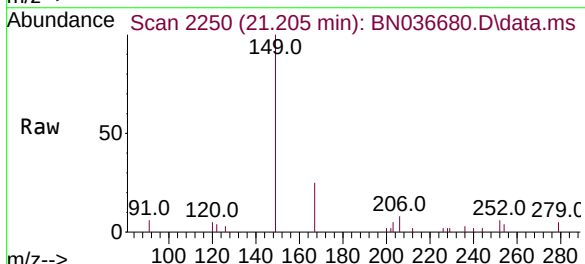
Instrument :
BNA_N
ClientSampleId :
PB167159BSD

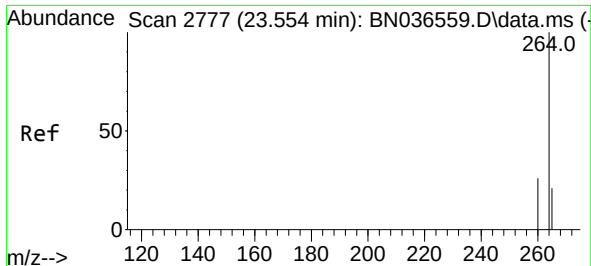
Tgt Ion:228 Resp: 4801
Ion Ratio Lower Upper
228 100
226 31.6 25.3 37.9
229 21.0 15.8 23.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.433 ng
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

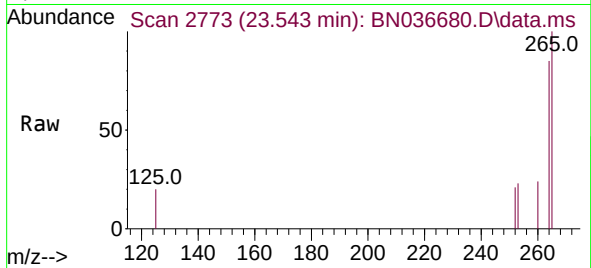
Tgt Ion:149 Resp: 2813
Ion Ratio Lower Upper
149 100
167 27.7 20.7 31.1
279 3.8 3.6 5.4



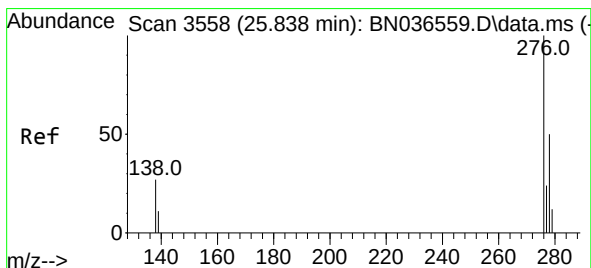
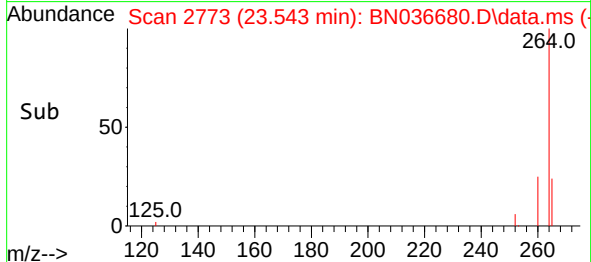
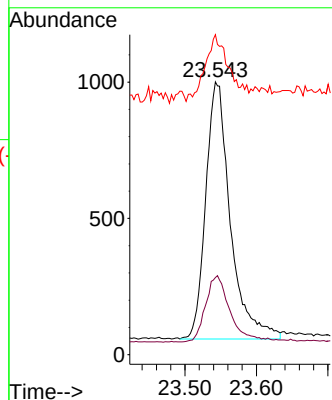


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.543 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

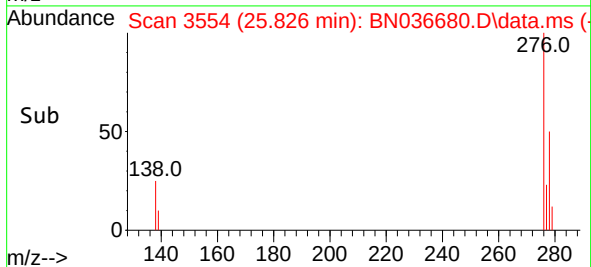
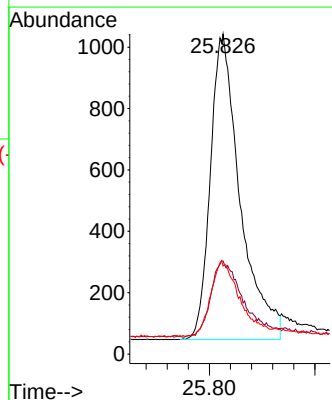
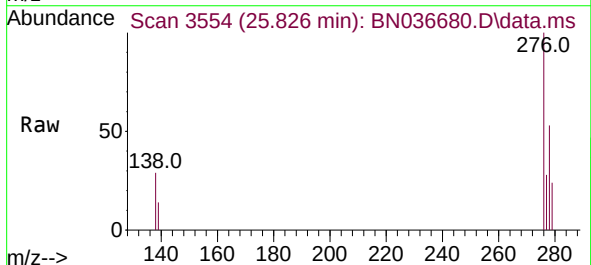


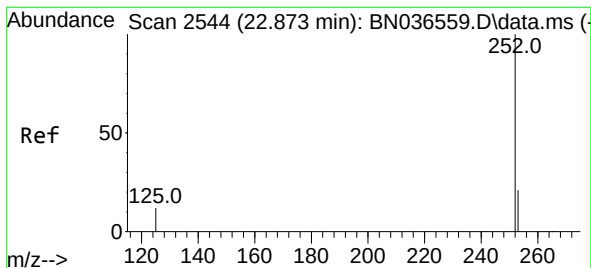
Tgt Ion:264 Resp: 2261
Ion Ratio Lower Upper
264 100
260 28.3 22.6 33.8
265 117.3 88.1 132.1



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.476 ng
RT: 25.826 min Scan# 3554
Delta R.T. -0.012 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:276 Resp: 3886
Ion Ratio Lower Upper
276 100
138 26.2 23.4 35.2
277 24.2 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.442 ng

RT: 22.864 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036680.D

Acq: 18 Mar 2025 04:16

Instrument :

BNA_N

ClientSampleId :

PB167159BSD

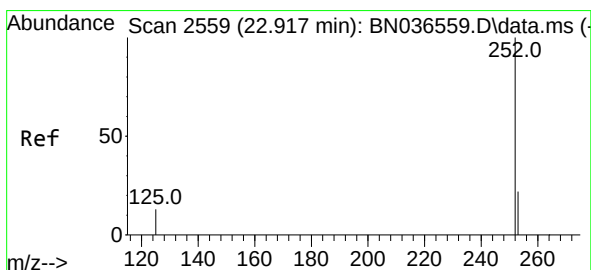
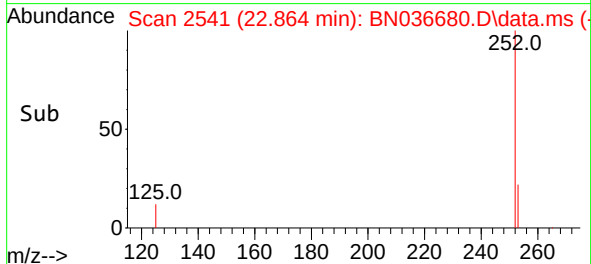
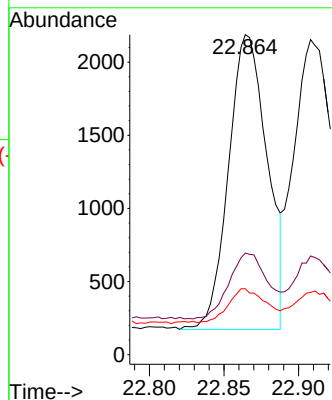
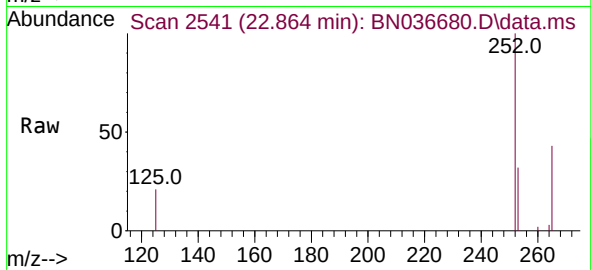
Tgt Ion:252 Resp: 3639

Ion Ratio Lower Upper

252 100

253 31.7 23.9 35.9

125 20.6 17.4 26.2



#38

Benzo(k)fluoranthene

Concen: 0.475 ng

RT: 22.908 min Scan# 2556

Delta R.T. -0.009 min

Lab File: BN036680.D

Acq: 18 Mar 2025 04:16

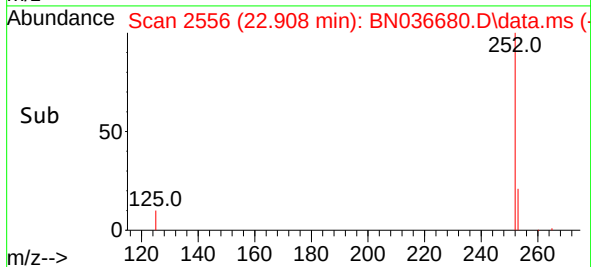
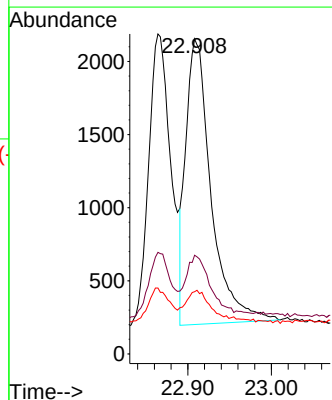
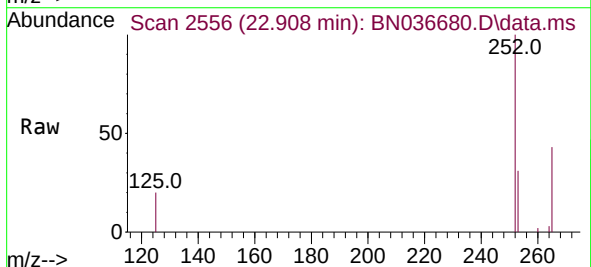
Tgt Ion:252 Resp: 4097

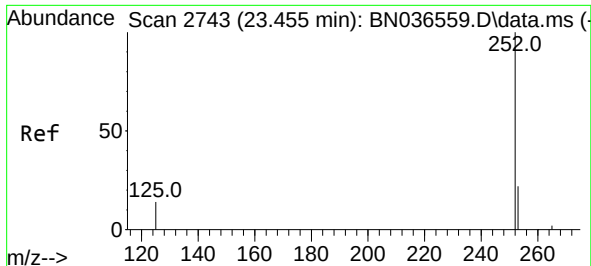
Ion Ratio Lower Upper

252 100

253 31.3 24.6 36.8

125 19.7 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.489 ng

RT: 23.446 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036680.D

Acq: 18 Mar 2025 04:16

Instrument :

BNA_N

ClientSampleId :

PB167159BSD

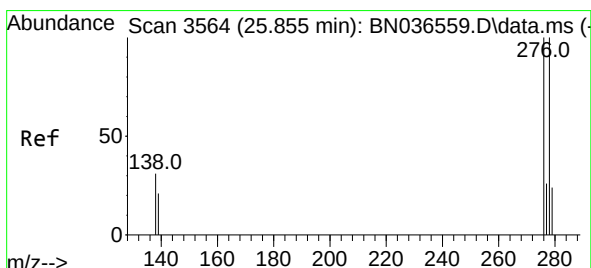
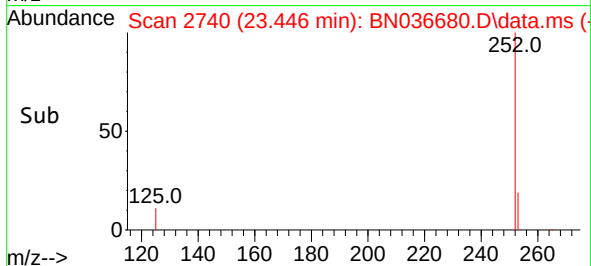
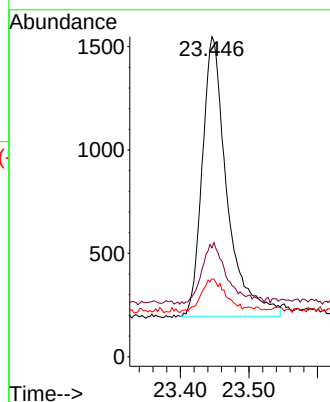
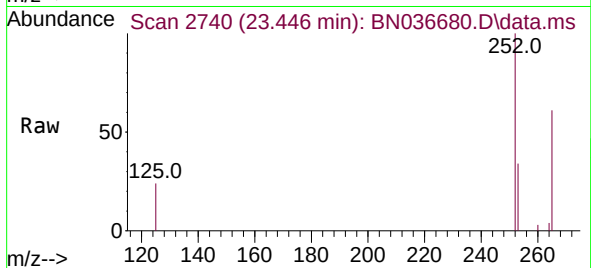
Tgt Ion:252 Resp: 3391

Ion Ratio Lower Upper

252 100

253 34.0 27.8 41.8

125 24.4 22.7 34.1



#40

Dibenzo(a,h)anthracene

Concen: 0.505 ng

RT: 25.846 min Scan# 3561

Delta R.T. -0.009 min

Lab File: BN036680.D

Acq: 18 Mar 2025 04:16

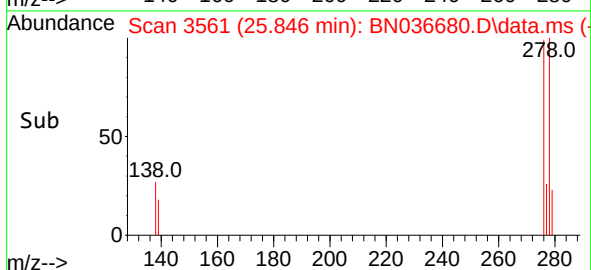
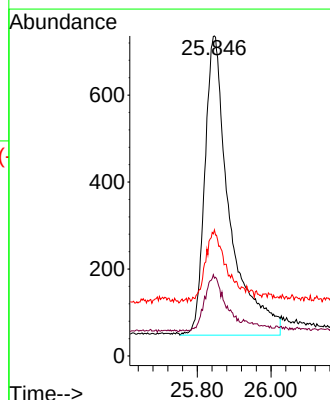
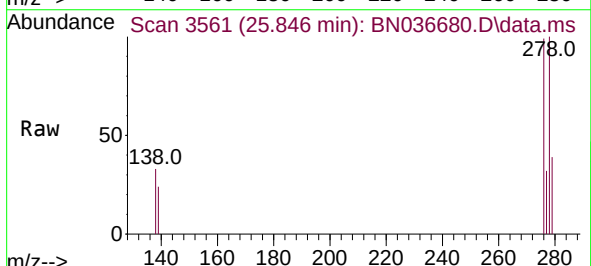
Tgt Ion:278 Resp: 3209

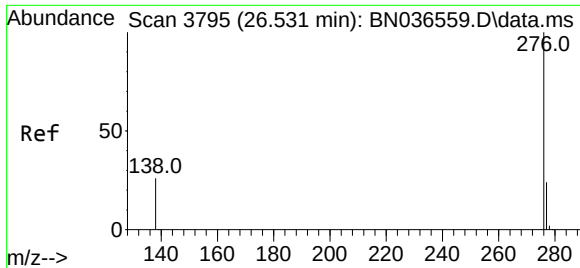
Ion Ratio Lower Upper

278 100

139 24.3 20.8 31.2

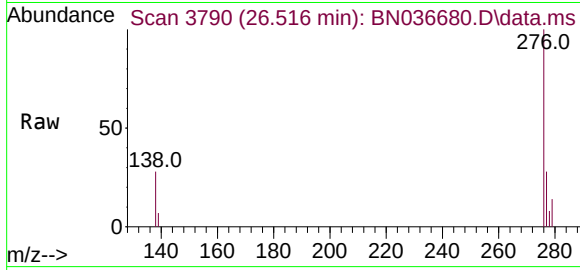
279 39.4 28.8 43.2





#41
 Benzo(g,h,i)perylene
 Concen: 0.458 ng
 RT: 26.516 min Scan# 31
 Delta R.T. -0.015 min
 Lab File: BN036680.D
 Acq: 18 Mar 2025 04:16

Instrument :
 BNA_N
 ClientSampleId :
 PB167159BSD



Tgt Ion:	276	Resp:	3330
Ion	Ratio	Lower	Upper
276	100		
277	28.4	22.2	33.4
138	28.2	24.1	36.1

