

Cover Page

Order ID : Q1872

Project ID : NJ Soil PT

Client : Alliance Technical Group, LLC - Newark

Lab Sample Number

Q1872-01
Q1872-02
Q1872-03
Q1872-04
Q1872-05
Q1872-06
Q1872-07
Q1872-08
Q1872-09
Q1872-10
Q1872-11
Q1872-12
Q1872-13
Q1872-14
Q1872-15
Q1872-16
Q1872-17
Q1872-18
Q1872-19
Q1872-20
Q1872-21
Q1872-22
Q1872-23
Q1872-24
Q1872-25

Client Sample Number

HW0425-PT-AN-SOIL
HW0425-PT-CORR-SOIL
HW0425-PT-CN-SOIL
HW0425-PT-CN-SOIL
HW0425-PT-FP-SOIL
HW0425-PT-CR6-SOIL
HW0425-PT-NUT-SOIL
HW0425-PT-NUT-SOIL
HW0425-PT-OGR-SOIL
HW0425-PT-MET-SOIL
HW0425-PT-BNA-SOIL
HW0425-PT-TRIAZINE-SOIL
HW0425-PT-PAH-SOIL
HW0425-PT-DIES-SOIL
HW0425-PT-GAS-SOIL
HW0425-PT-NJEPH-SOIL
HW0425-PT-HERB-SOIL
HW0425-PT-PCB-SOIL
HW0425-PT-PCBO-SOIL
HW0425-PT-PEST-SOIL
HW0425-PT-CHLR-SOIL
HW0425-PT-TXP-SOIL
HW0425-PT-VOA-SOIL
HW0425-PT-SOL-SOIL
HW0425-PT-NO2-SOIL

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: 5/28/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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CASE NARRATIVE

Alliance Technical Group, LLC - Newark

Project Name: NJ Soil PT

Project # N/A

Order ID # Q1872

Test Name: SVOCMS Group5

A. Number of Samples and Date of Receipt:

24 Solid samples were received on 04/24/2025.

1 Solid sample was received on 04/28/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, Anions Group2, Corrosivity, Cyanide, Diesel Range Organics, EPH, Flash Point, Gasoline Range Organics, Herbicide Group1, Hexavalent Chromium, Mercury, Metals Group3, Metals ICP-Group1, Oil and Grease, PCB, PESTICIDE Group1, PESTICIDE Group2, PESTICIDE Group3, Phosphorus, Total, SVOCMS Group1, SVOCMS Group2, SVOCMS Group3, SVOCMS Group4, SVOCMS Group5, TKN, TOC, TS and VOCMS Group1. This data package contains results for SVOCMS Group5.

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 SVOCMS Group5 was based on method 8270-Modified and extraction was done based on method 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for, HW0425-PT-TRIAZINE-SOIL [2-Methylnaphthalene-d10 - 0%, Fluoranthene-d10 - 0%]. Failed surrogate are not associated, Therefore no further corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds.

The MSD recoveries met the acceptable requirements.

The RPD met criteria.

The Blank Spike met requirements for all samples.

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

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.



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The Tuning criteria met requirements.

E. Additional Comments:

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

The soil samples results are based on a dry weight basis.

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

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

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

ORDER ID: Q1872

MATRIX: Solid

METHOD: 8270-Modified/3541

		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 HW0425-PT- TRIAZINE-SOIL [2-Methylnaphthalene-d10 - 0%, Fluoranthene-d10 - 0%]. Failed surrogate are not associated, Therefor no further 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.			✓

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

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

ADDITIONAL COMMENTS:

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

The soil samples results are based on a dry weight basis.

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 #: Q1872

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 05/28/2025

LAB CHRONICLE

OrderID:	Q1872	OrderDate:	4/24/2025 1:26:50 PM
Client:	Alliance Technical Group, LLC - Newark	Project:	NJ Soil PT
Contact:	Mohammad Ahmed	Location:	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1872-11	HW0425-PT-BNA-SOIL	SOIL			04/21/25			04/24/25
	L		SVOCMS Group1	8270E		05/08/25	05/14/25	
			SVOCMS Group2	8270-Modified		05/08/25	05/13/25	
Q1872-11DL	HW0425-PT-BNA-SOIL	SOIL			04/21/25			04/24/25
	LDL		SVOCMS Group1	8270E		05/08/25	05/14/25	
			SVOCMS Group2	8270-Modified		05/08/25	05/13/25	
Q1872-12	HW0425-PT-TRIAZIN	SOIL			04/21/25			04/24/25
	E-SOIL		SVOCMS Group4	8270E		05/08/25	05/14/25	
			SVOCMS Group5	8270-Modified		05/08/25	05/13/25	
Q1872-13	HW0425-PT-PAH-SOIL	SOIL			04/21/25			04/24/25
	L		SVOCMS Group3	8270-Modified		05/08/25	05/14/25	
Q1872-13DL	HW0425-PT-PAH-SOIL	SOIL			04/21/25			04/24/25
	LDL		SVOCMS Group3	8270-Modified		05/08/25	05/14/25	



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Hit Summary Sheet
SW-846

SDG No.: Q1872
Client: Alliance Technical Group, LLC - Newark

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



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q1872

Client: Alliance Technical Group, LLC - Newark

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB167915BL	PB167915BL	2-Methylnaphthalene-d10	0.4	0.32	79		17	161
		Fluoranthene-d10	0.4	0.37	91		23	138
		Nitrobenzene-d5	0.4	0.32	79		33	121
		2-Fluorobiphenyl	0.4	0.31	78		32	121
		Terphenyl-d14	0.4	0.32	80		21	130
PB167915BS	PB167915BS	2-Methylnaphthalene-d10	0.4	0.51	127		17	161
		Fluoranthene-d10	0.4	0.36	90		23	138
		Nitrobenzene-d5	0.4	0.35	88		33	121
		2-Fluorobiphenyl	0.4	0.35	88		32	121
		Terphenyl-d14	0.4	0.36	90		21	130
Q1872-12	HW0425-PT-TRIAZINE-SOIL	2-Methylnaphthalene-d10	100	0	0	*	17	161
		Fluoranthene-d10	100	0	0	*	23	138
		Nitrobenzene-d5	100	68.4	68		33	121
		2-Fluorobiphenyl	100	57.2	57		32	121
		Terphenyl-d14	100	70.2	70		21	130
Q1939-04MS	GB2BMS	2-Methylnaphthalene-d10	0.4	0.22	55		17	161
		Fluoranthene-d10	0.4	0.23	57		23	138
		Nitrobenzene-d5	0.4	0.22	55		33	121
		2-Fluorobiphenyl	0.4	0.19	49		32	121
		Terphenyl-d14	0.4	0.20	50		21	130
Q1939-04MSD	GB2BMSD	2-Methylnaphthalene-d10	0.4	0.23	56		17	161
		Fluoranthene-d10	0.4	0.23	58		23	138
		Nitrobenzene-d5	0.4	0.22	55		33	121
		2-Fluorobiphenyl	0.4	0.19	49		32	121
		Terphenyl-d14	0.4	0.20	50		21	130

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1872

Client: Alliance Technical Group, LLC - Newark

Analytical Method: SW8270-Modified

Parameter		Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q1939-04MS		Client Sample ID:	GB2BMS					DataFile:	BN036975.D		
Atrazine		15.6	0	15.9	ug/Kg	102				20	150	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1872

Client: Alliance Technical Group, LLC - Newark

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q1939-04MSD	Client Sample ID:	GB2BMSD					DataFile:	BN036976.D		
Atrazine	15.6	0	15.9	ug/Kg	102		0		20	150	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1872

Client: Alliance Technical Group, LLC - Newark

Analytical Method: 8270-Modified **DataFile:** BN036979.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB167915BS	Atrazine	13.3	12.7	ug/Kg	95				20	150	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167915BL

Lab Name: CHEMTECH

Contract: ALLI03

Lab Code: CHEM Case No.: Q1872

SAS No.: Q1872 SDG NO.: Q1872

Lab File ID: BN036973.D

Lab Sample ID: PB167915BL

Instrument ID: BNA_N

Date Extracted: 05/08/2025

Matrix: (soil/water) SOIL

Date Analyzed: 05/08/2025

Level: (low/med) LOW

Time Analyzed: 15:04

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167915BS	PB167915BS	BN036979.D	05/08/2025
GB2BMS	Q1939-04MS	BN036975.D	05/08/2025
GB2BMDS	Q1939-04MSD	BN036976.D	05/08/2025
HW0425-PT-TRIAZINE-SOIL	Q1872-12	BN036996.D	05/13/2025

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: ALLI03Lab Code: CHEMSAS No.: Q1872 SDG NO.: Q1872Lab File ID: BN036922.DDFTPP Injection Date: 04/28/2025Instrument ID: BNA_NDFTPP Injection Time: 10:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	67.4
68	Less than 2.0% of mass 69	0.8 (1.4) 1
69	Mass 69 relative abundance	58.8
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	54.3
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	23.7
365	Greater than 1% of mass 198	3.8
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	9.3 (19.4) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN036923.D	04/28/2025	11:35
SSTDICC0.2	SSTDICC0.2	BN036924.D	04/28/2025	12:11
SSTDICCC0.4	SSTDICCC0.4	BN036925.D	04/28/2025	12:47
SSTDICC0.8	SSTDICC0.8	BN036926.D	04/28/2025	13:24
SSTDICC1.6	SSTDICC1.6	BN036927.D	04/28/2025	14:00
SSTDICC3.2	SSTDICC3.2	BN036928.D	04/28/2025	14:36
SSTDICC5.0	SSTDICC5.0	BN036929.D	04/28/2025	15:12



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: ALLI03Lab Code: CHEMSAS No.: Q1872 SDG NO.: Q1872Lab File ID: BN036971.DDFTPP Injection Date: 05/08/2025Instrument ID: BNA_NDFTPP Injection Time: 13:49

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	0.3 (0.4) 1
69	Mass 69 relative abundance	58.3
70	Less than 2.0% of mass 69	0.4 (0.6) 1
127	10.0 - 80.0% of mass 198	52.9
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	24.9
365	Greater than 1% of mass 198	4.3
441	Present, but less than mass 443	9.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.7 (19.7) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN036972.D	05/08/2025	14:28
PB167915BL	PB167915BL	BN036973.D	05/08/2025	15:04
GB2BMS	Q1939-04MS	BN036975.D	05/08/2025	16:16
GB2BMSD	Q1939-04MSD	BN036976.D	05/08/2025	16:53
PB167915BS	PB167915BS	BN036979.D	05/08/2025	18:41



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: ALLI03Lab Code: CHEMSAS No.: Q1872 SDG NO.: Q1872Lab File ID: BN036981.DDFTPP Injection Date: 05/12/2025Instrument ID: BNA_NDFTPP Injection Time: 13:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	69.8
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	59
70	Less than 2.0% of mass 69	0.3 (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	7.3
275	10.0 - 60.0% of mass 198	25.1
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	8.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	9.9 (18.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN036982.D	05/12/2025	13:43
SSTDICC0.2	SSTDICC0.2	BN036983.D	05/12/2025	14:19
SSTDICCC0.4	SSTDICCC0.4	BN036984.D	05/12/2025	14:55
SSTDICC0.8	SSTDICC0.8	BN036985.D	05/12/2025	15:31
SSTDICC1.6	SSTDICC1.6	BN036986.D	05/12/2025	16:07
SSTDICC3.2	SSTDICC3.2	BN036987.D	05/12/2025	16:43
SSTDICC5.0	SSTDICC5.0	BN036988.D	05/12/2025	17:19



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: ALLI03Lab Code: CHEMSAS No.: Q1872 SDG NO.: Q1872Lab File ID: BN036991.DDFTPP Injection Date: 05/13/2025Instrument ID: BNA_NDFTPP Injection Time: 09:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	68.8
68	Less than 2.0% of mass 69	0.5 (0.8) 1
69	Mass 69 relative abundance	58.5
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	7
275	10.0 - 60.0% of mass 198	23.8
365	Greater than 1% of mass 198	3.9
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	10.8 (19.8) 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	BN036992.D	05/13/2025	10:39
HW0425-PT-TRIAZINE-SOIL	Q1872-12	BN036996.D	05/13/2025	15:14

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1872 SAS No.: Q1872 SDG NO.: Q1872

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 05/08/2025

Lab File ID: BN036972.D Time Analyzed: 14:28

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	1755	7.626	4397	10.40	2406	14.28
UPPER LIMIT	3510	8.126	8794	10.904	4812	14.777
LOWER LIMIT	877.5	7.126	2198.5	9.904	1203	13.777
EPA SAMPLE NO.						
01 PB167915BL	1580	7.63	3771	10.42	2026	14.28
02 PB167915BS	2493	7.63	6667	10.40	3772	14.28
03 GB2BMS	1704	7.63	4360	10.40	2385	14.28
04 GB2BMSD	1746	7.63	4442	10.40	2456	14.28

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.: Q1872 SAS No.: Q1872 SDG NO.: Q1872

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 05/08/2025

Lab File ID: BN036972.D Time Analyzed: 14:28

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	4760	17.021	4148	21.215	3956	23.424
UPPER LIMIT	9520	17.521	8296	21.715	7912	23.924
LOWER LIMIT	2380	16.521	2074	20.715	1978	22.924
EPA SAMPLE NO.						
01 PB167915BL	4065	17.02	3603	21.22	3531	23.42
02 PB167915BS	7644	17.02	6261	21.22	5504	23.42
03 GB2BMS	5063	17.02	4471	21.22	4298	23.42
04 GB2BMSD	5135	17.02	4532	21.22	4358	23.42

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.: Q1872 SAS No.: Q1872 SDG NO.: Q1872

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 05/13/2025

Lab File ID: BN036992.D Time Analyzed: 10:39

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	1673	7.618	4334	10.40	2424	14.27
UPPER LIMIT	3346	8.118	8668	10.904	4848	14.766
LOWER LIMIT	836.5	7.118	2167	9.904	1212	13.766
EPA SAMPLE NO.						
01 HW0425-PT-TRIAZINE-SOIL	2166	7.62	6095	10.40	3427	14.27

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.: Q1872 SAS No.: Q1872 SDG NO.: Q1872

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 05/13/2025

Lab File ID: BN036992.D Time Analyzed: 10:39

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	4889	17.008	4357	21.20€	4348	23.412
UPPER LIMIT	9778	17.508	8714	21.70€	8696	23.912
LOWER LIMIT	2444.5	16.508	2178.5	20.70€	2174	22.912
EPA SAMPLE NO.						
01 HW0425-PT-TRIAZINE-SOIL	7343	17.01	7384	21.21	7397	23.41

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-TRIAZINE-SOIL	SDG No.:	Q1872
Lab Sample ID:	Q1872-12	Matrix:	SOIL
Analytical Method:	SW8270ESIM	% Solid:	100
Sample Wt/Vol:	30.37 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036996.D	1	05/08/25 10:03	05/13/25 15:14	PB167915

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1912-24-9	Atrazine	1.10	U	1.10	3.30	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0	*	17 - 161	0%	SPK: 100
93951-69-0	Fluoranthene-d10	0	*	23 - 138	0%	SPK: 100
4165-60-0	Nitrobenzene-d5	68.4		33 - 121	68%	SPK: 100
321-60-8	2-Fluorobiphenyl	57.2		32 - 121	57%	SPK: 100
1718-51-0	Terphenyl-d14	70.2		21 - 130	70%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2170		7.618		
1146-65-2	Naphthalene-d8	6100		10.404		
15067-26-2	Acenaphthene-d10	3430		14.267		
1517-22-2	Phenanthrene-d10	7340		17.009		
1719-03-5	Chrysene-d12	7380		21.206		
1520-96-3	Perylene-d12	7400		23.412		

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\BN051325\
 Data File : BN036996.D
 Acq On : 13 May 2025 15:14
 Operator : RC/JU
 Sample : Q1872-12
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 HW0425-PT-TRIAZINE-SOIL

Quant Time: May 13 15:41:45 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 12 18:05:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.618	152	2166	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	6095	0.400	ng	0.00
13) Acenaphthene-d10	14.267	164	3427	0.400	ng	0.00
19) Phenanthrene-d10	17.009	188	7343	0.400	ng	0.00
29) Chrysene-d12	21.206	240	7384	0.400	ng	0.00
35) Perylene-d12	23.412	264	7397	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	531511	95.205	ng	0.00
5) Phenol-d6	6.795	99	763462	112.775	ng	0.00
8) Nitrobenzene-d5	8.771	82	439598	68.428	ng	0.00
11) 2-Methylnaphthalene-d10	0.000	152	0d	0.000	ng	
14) 2,4,6-Tribromophenol	15.767	330	212439	135.186	ng	0.00
15) 2-Fluorobiphenyl	12.888	172	914768	57.164	ng	0.00
27) Fluoranthene-d10	0.000	212	0d	0.000	ng	
31) Terphenyl-d14	19.658	244	1173103	70.184	ng	0.00
Target Compounds						Qvalue
25) Phenanthrene	17.058	178	6069	0.252	ng	100
28) Fluoranthene	19.082	202	13461	0.474	ng	98
30) Pyrene	19.444	202	16307	0.487	ng	97
32) Benzo(a)anthracene	21.189	228	5849	0.209	ng	93
33) Chrysene	21.242	228	8232	0.279	ng	98
34) Bis(2-ethylhexyl)phtha...	21.135	149	31165	1.812	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.623	276	4971	0.170	ng	96
39) Benzo(a)pyrene	23.316	252	6345	0.248	ng	# 77
41) Benzo(g,h,i)perylene	26.295	276	5316	0.210	ng	# 90

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

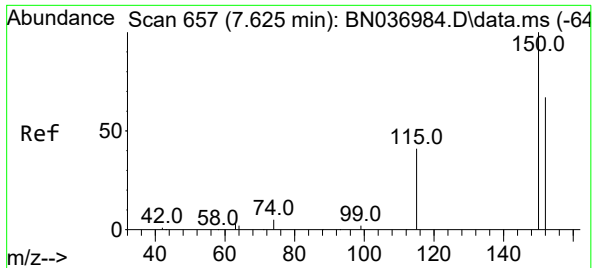
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-TRIAZINE-SOIL

Abundance

TIC: BN036996.D\data.ms

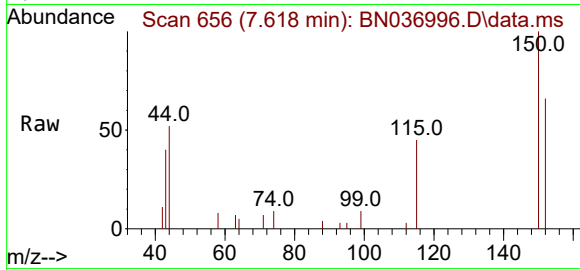
Time-->

Retention Time (min)	Compound	Approximate Abundance
5.1	2-Fluorophenol, S	800,000
6.8	Phenol-d6, S	1,050,000
7.5	1,4-Dichlorobenzene-d4, I	250,000
8.7	Nitrobenzene-d5, S	580,000
10.5	Naphthalene-d8, I	150,000
12.8	2-Fluorobiphenyl, S	1,120,000
14.2	Acenaphthene-d10, I	100,000
15.8	2,4,6-Tribromophenol, S	420,000
16.5	Phenanthrene-d10, I	200,000
17.8	Fluoranthene	100,000
18.2	Pyrene	110,000
19.8	Terphenyl-d14, S	1,200,000
21.2	Bis(2-ethylhexyl)phthalate	100,000
21.5	Indeno(1,2,3-cd)pyrene	100,000
23.2	Benzo(a)pyrene	100,000
23.8	Indeno(1,2,3-cd)pyrene	100,000
26.5	Benzo(g,h,i)perylene	100,000

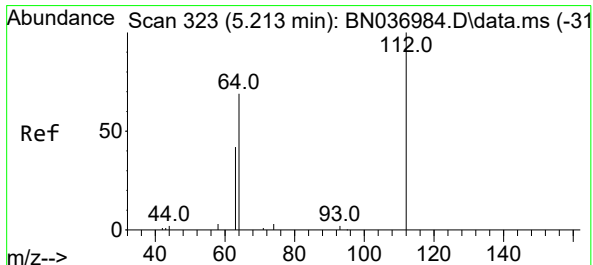
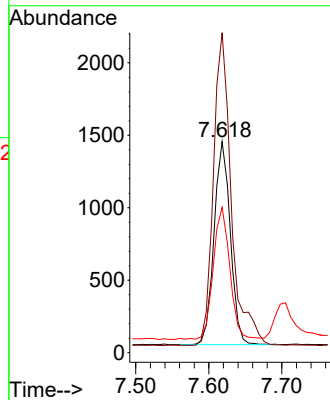
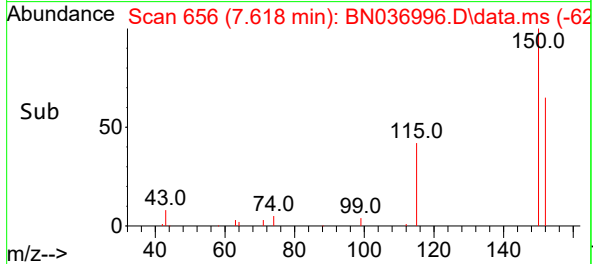


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.618 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN036996.D
Acq: 13 May 2025 15:14

Instrument :
BNA_N
ClientSampleId :
HW0425-PT-TRIAZINE-SOIL

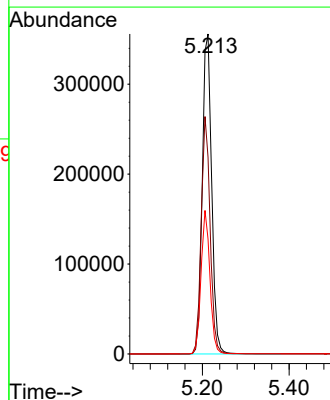
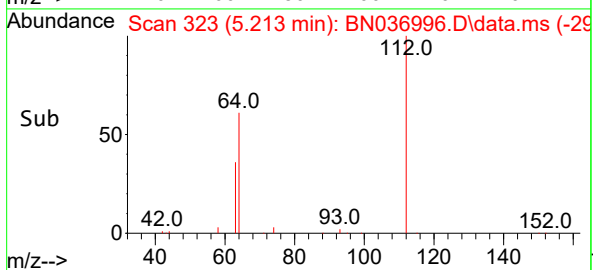
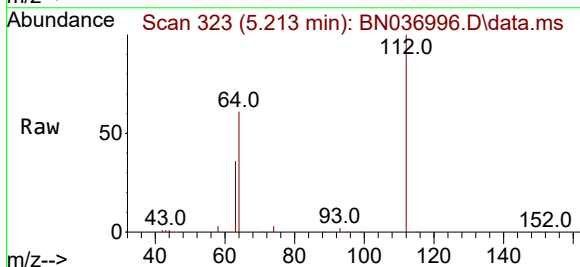


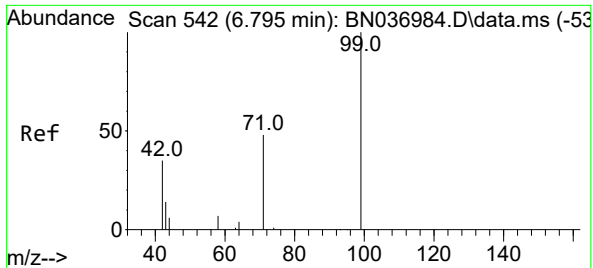
Tgt Ion:152 Resp: 2166
Ion Ratio Lower Upper
152 100
150 151.6 118.2 177.4
115 68.9 52.5 78.7



#4
2-Fluorophenol
Concen: 95.205 ng
RT: 5.213 min Scan# 323
Delta R.T. -0.000 min
Lab File: BN036996.D
Acq: 13 May 2025 15:14

Tgt Ion:112 Resp: 531511
Ion Ratio Lower Upper
112 100
64 71.0 56.2 84.2
63 42.7 34.3 51.5

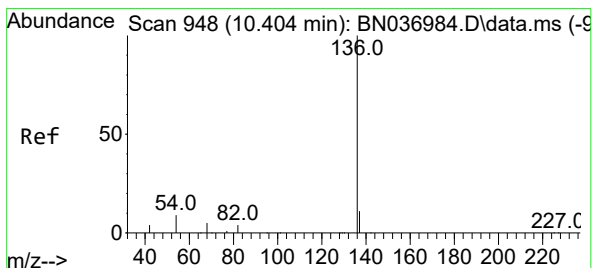
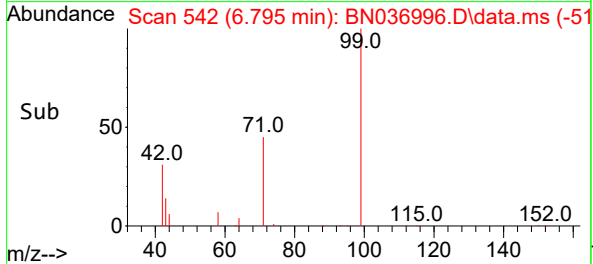
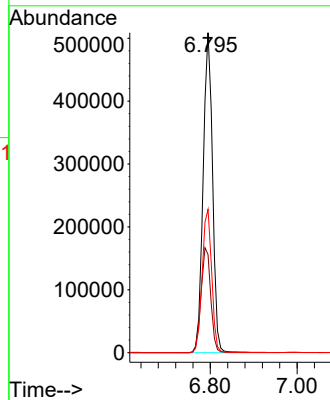
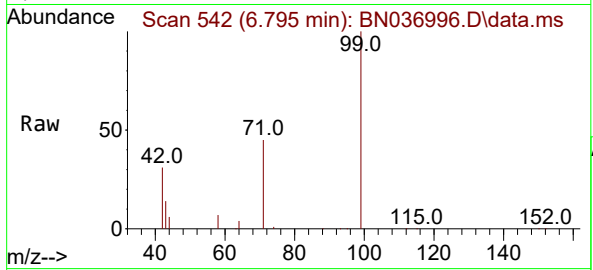




#5
Phenol-d6
Concen: 112.775 ng
RT: 6.795 min Scan# 542
Delta R.T. -0.000 min
Lab File: BN036996.D
Acq: 13 May 2025 15:14

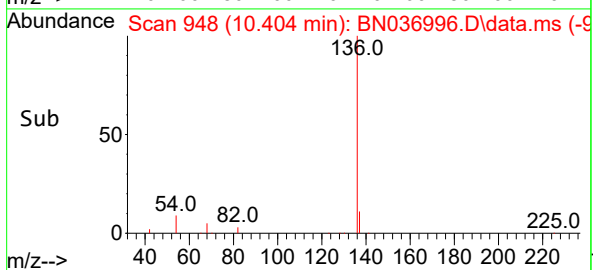
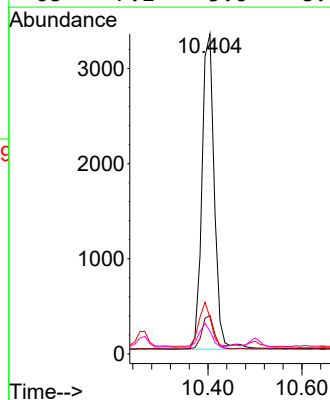
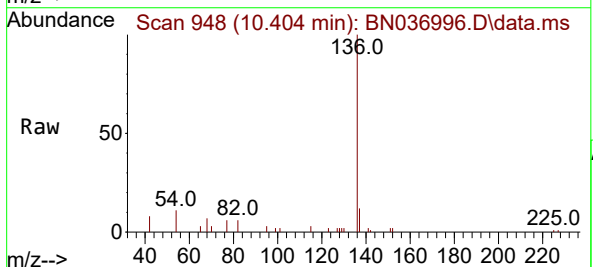
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ClientSampleId :
HW0425-PT-TRIAZINE-SOIL

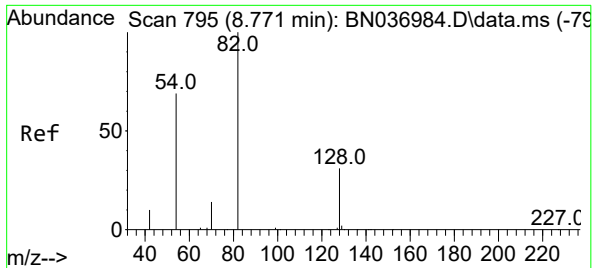
Tgt Ion: 99 Resp: 763462
Ion Ratio Lower Upper
99 100
42 33.8 29.0 43.6
71 45.5 36.2 54.2



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN036996.D
Acq: 13 May 2025 15:14

Tgt Ion: 136 Resp: 6095
Ion Ratio Lower Upper
136 100
137 12.1 10.3 15.5
54 11.3 9.2 13.8
68 7.1 5.6 8.4

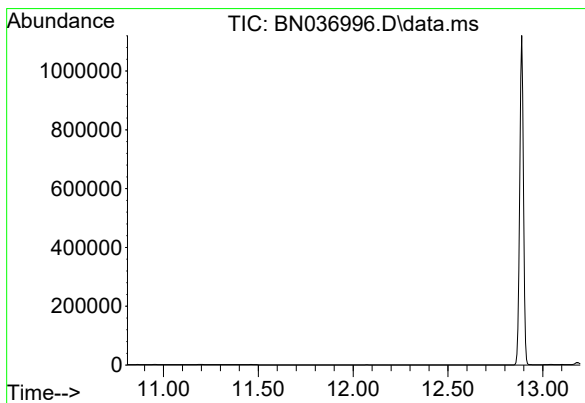
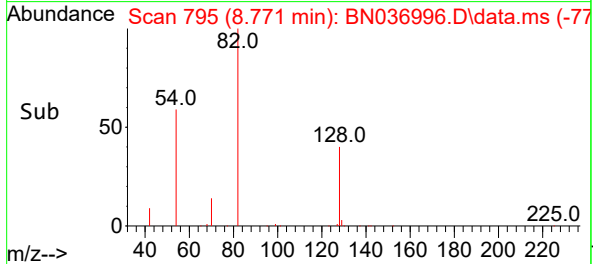
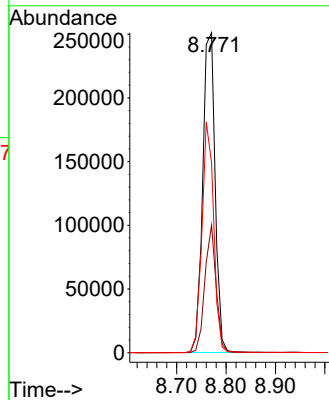
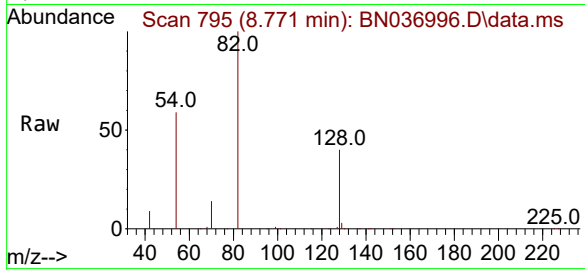




#8
Nitrobenzene-d5
Concen: 68.428 ng
RT: 8.771 min Scan# 79
Delta R.T. -0.000 min
Lab File: BN036996.D
Acq: 13 May 2025 15:14

Instrument :
BNA_N
ClientSampleId :
HW0425-PT-TRIAZINE-SOIL

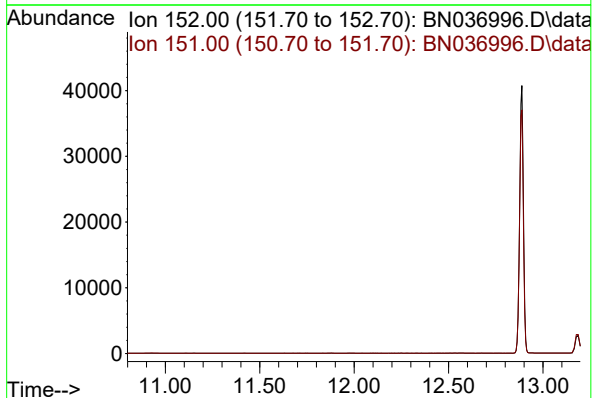
Tgt Ion: 82 Resp: 439598
Ion Ratio Lower Upper
82 100
128 39.9 28.1 42.1
54 59.3 56.4 84.6

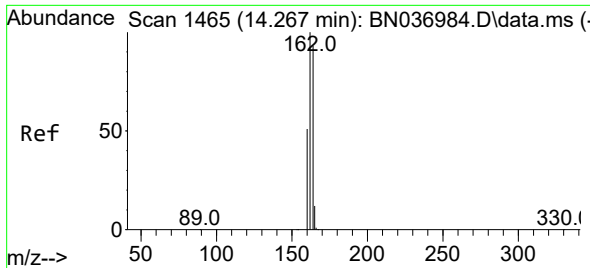


#11
2-Methylnaphthalene-d10
Concen: 0.000 ng
Expected RT: 12.00 min

Lab File: BN036996.D
Acq: 13 May 2025 15:14

Tgt Ion: 152
Sig Exp Ratio
152 100
151 21.8

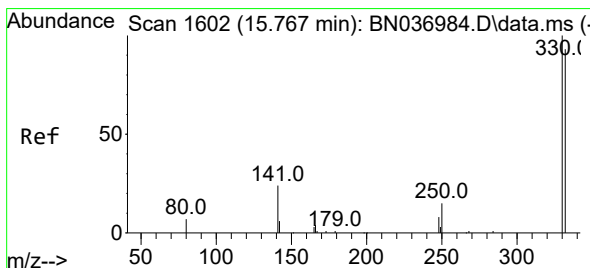
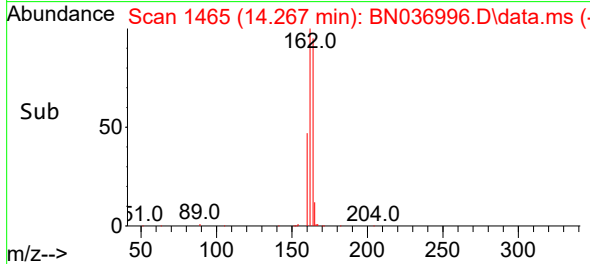
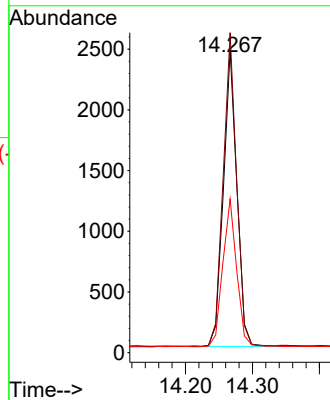
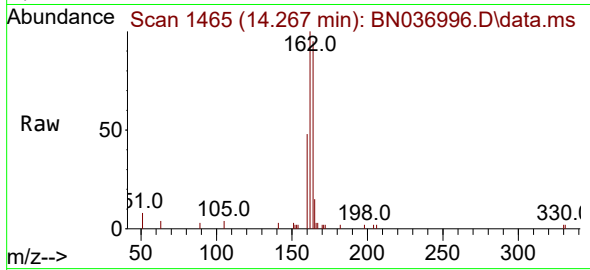




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.267 min Scan# 1465
Delta R.T. -0.000 min
Lab File: BN036996.D
Acq: 13 May 2025 15:14

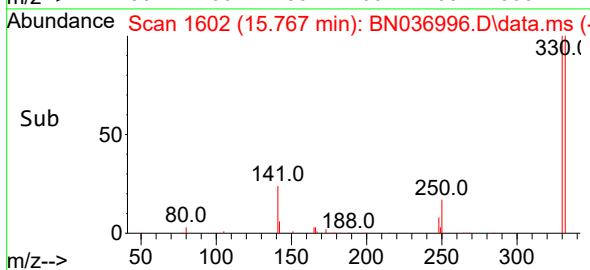
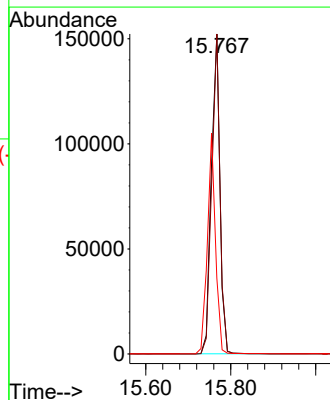
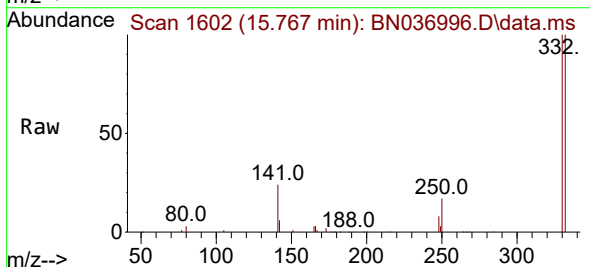
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-TRIAZINE-SOIL

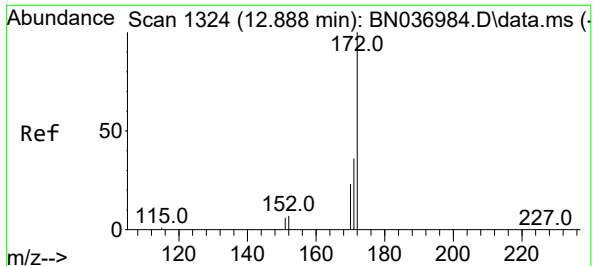
Tgt Ion:164 Resp: 3427
Ion Ratio Lower Upper
164 100
162 105.7 86.1 129.1
160 50.8 44.6 67.0



#14
2,4,6-Tribromophenol
Concen: 135.186 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036996.D
Acq: 13 May 2025 15:14

Tgt Ion:330 Resp: 212439
Ion Ratio Lower Upper
330 100
332 96.5 75.6 113.4
141 65.3 47.4 71.2

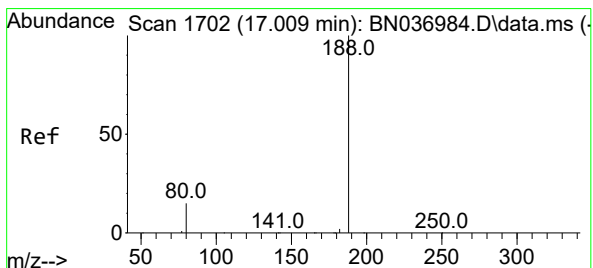
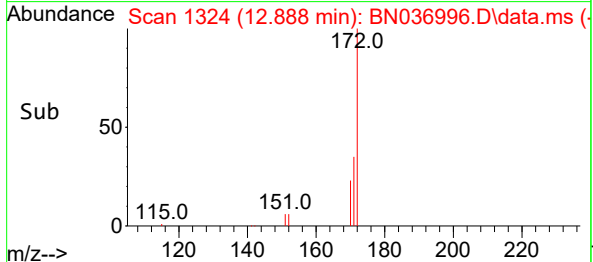
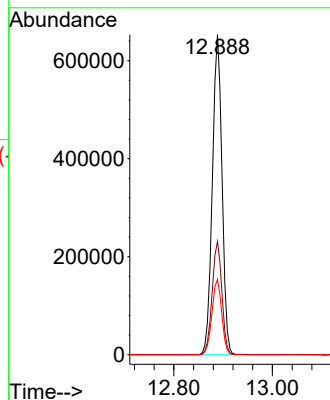
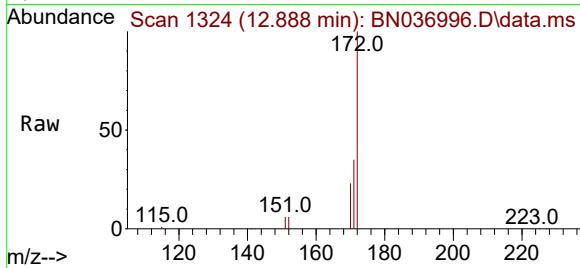




#15
2-Fluorobiphenyl
Concen: 57.164 ng
RT: 12.888 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036996.D
Acq: 13 May 2025 15:14

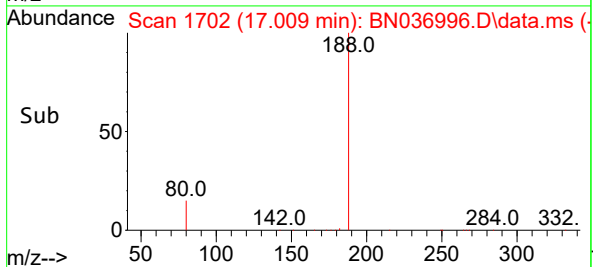
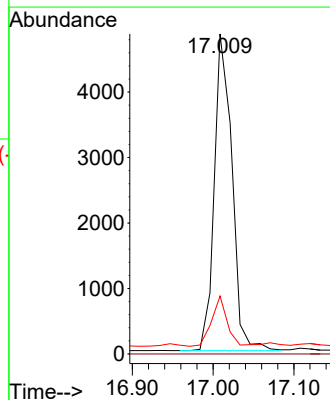
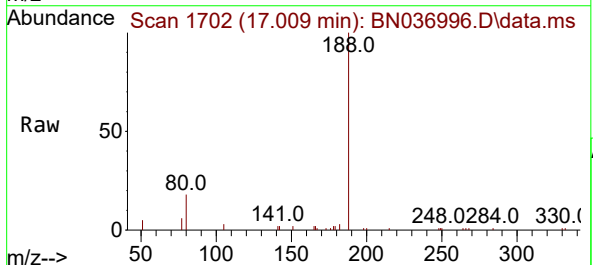
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-TRIAZINE-SOIL

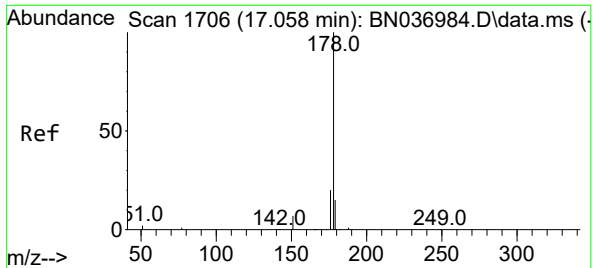
Tgt Ion:172 Resp: 914768
Ion Ratio Lower Upper
172 100
171 35.4 29.4 44.2
170 23.5 19.4 29.0



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN036996.D
Acq: 13 May 2025 15:14

Tgt Ion:188 Resp: 7343
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 18.1 13.4 20.0

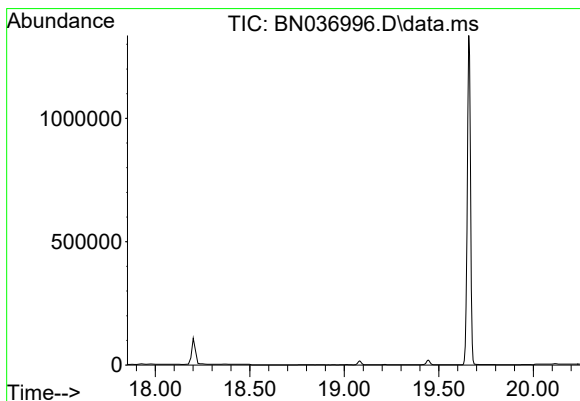
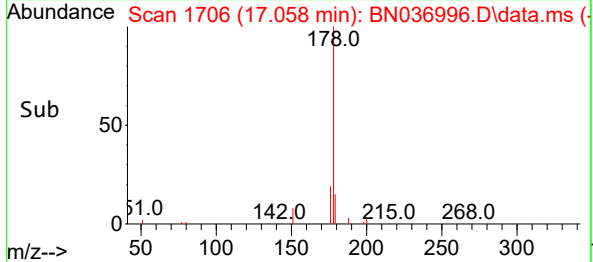
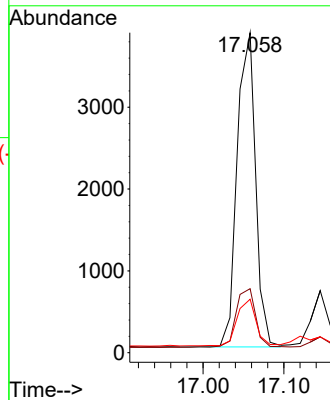
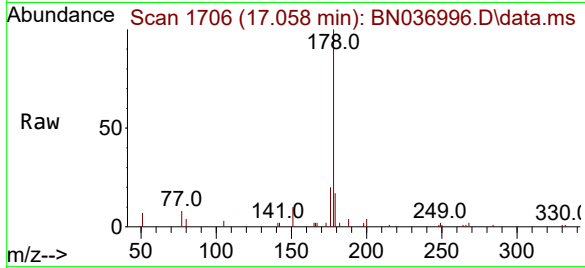




#25
Phenanthrene
Concen: 0.252 ng
RT: 17.058 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036996.D
Acq: 13 May 2025 15:14

Instrument :
BNA_N
ClientSampleId :
HW0425-PT-TRIAZINE-SOIL

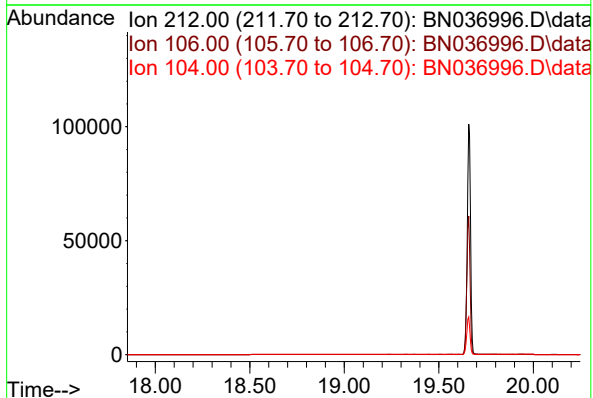
Tgt Ion:178 Resp: 6069
Ion Ratio Lower Upper
178 100
176 20.1 16.0 24.0
179 15.3 12.3 18.5

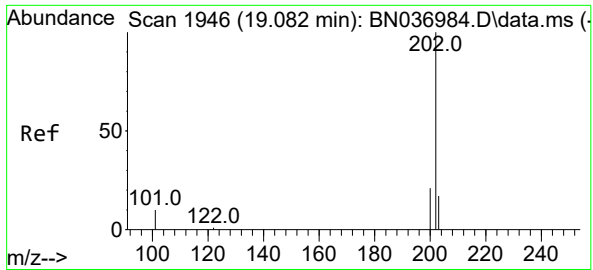


#27
Fluoranthene-d10
Concen: 0.000 ng
Expected RT: 19.05 min

Lab File: BN036996.D
Acq: 13 May 2025 15:14

Tgt Ion: 212
Sig Exp Ratio
212 100
106 14.1
104 8.7

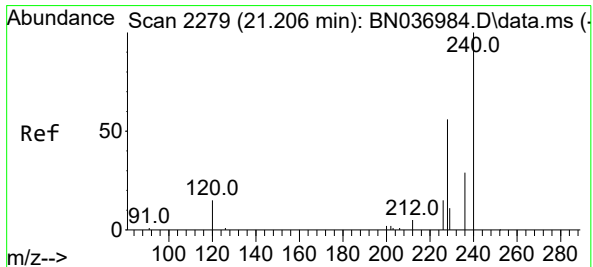
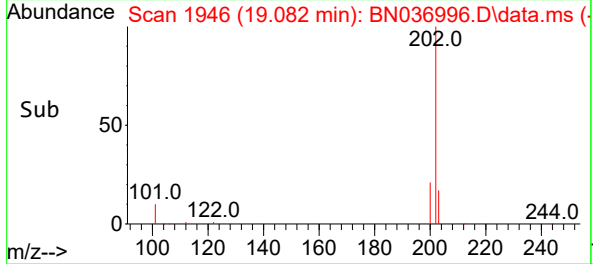
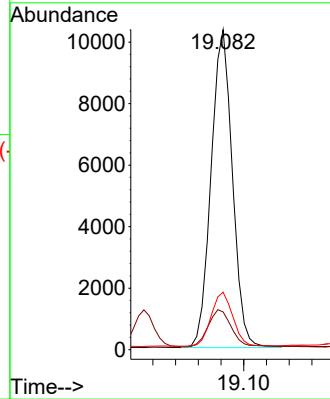
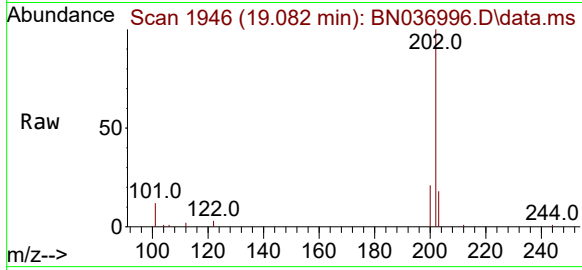




#28
Fluoranthene
Concen: 0.474 ng
RT: 19.082 min Scan# 1946
Delta R.T. -0.000 min
Lab File: BN036996.D
Acq: 13 May 2025 15:14

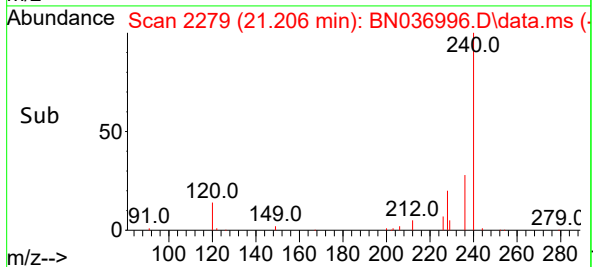
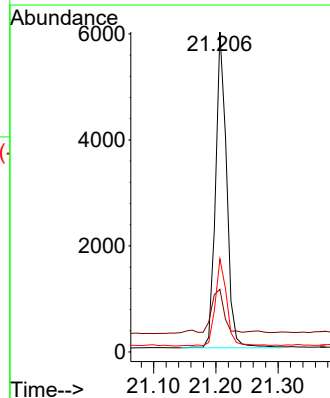
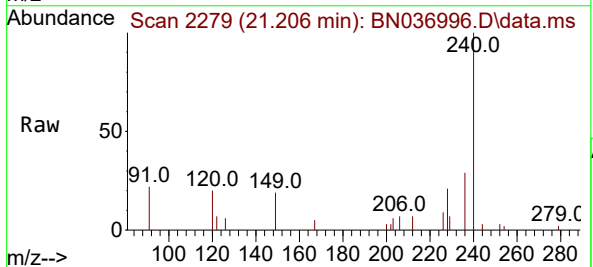
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-TRIAZINE-SOIL

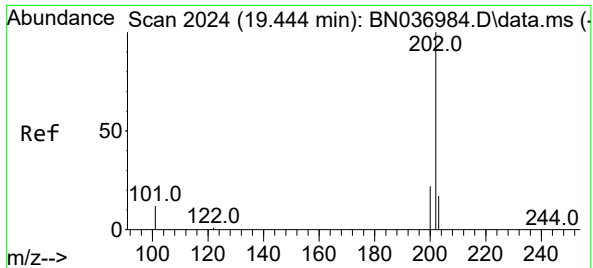
Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.8	8.6	12.8
203	17.2	13.5	20.3



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.206 min Scan# 2279
Delta R.T. -0.000 min
Lab File: BN036996.D
Acq: 13 May 2025 15:14

Tgt Ion	Ratio	Lower	Upper
240	100		
120	19.6	14.5	21.7
236	29.1	24.3	36.5

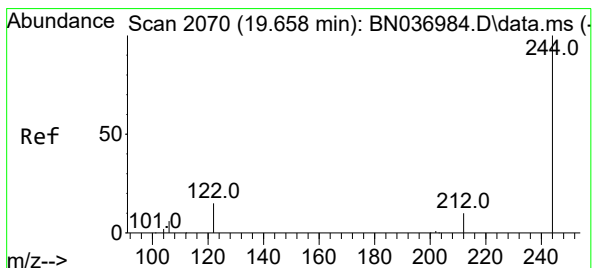
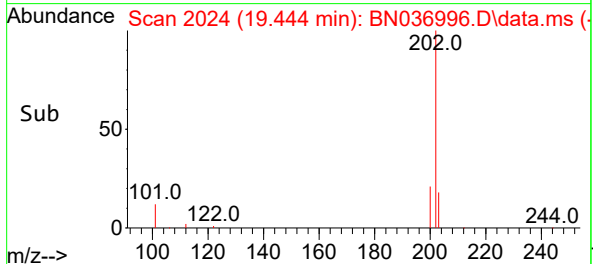
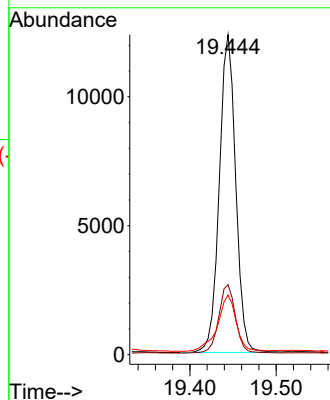
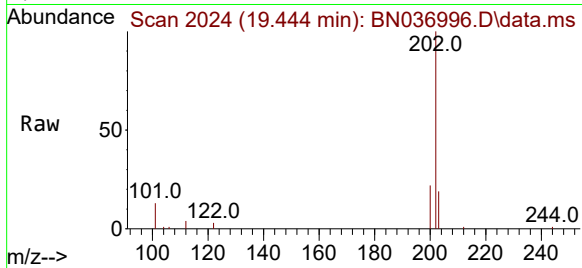




#30
Pyrene
Concen: 0.487 ng
RT: 19.444 min Scan# 2024
Delta R.T. -0.000 min
Lab File: BN036996.D
Acq: 13 May 2025 15:14

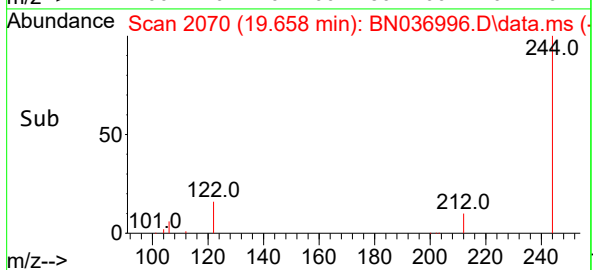
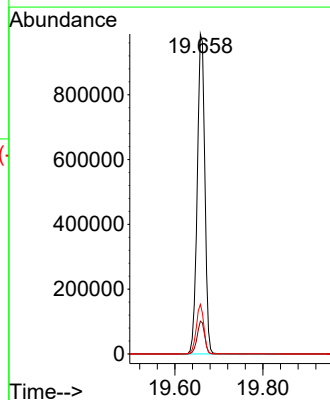
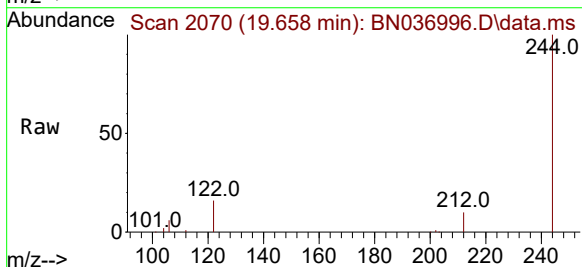
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-TRIAZINE-SOIL

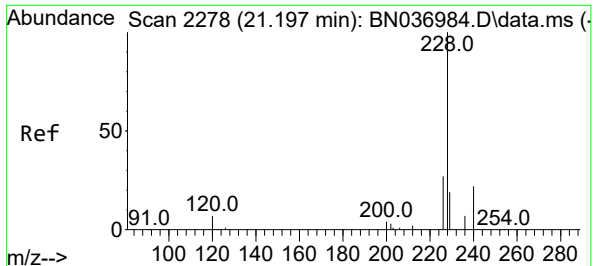
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.3	25.9
203	20.2	14.4	21.6



#31
Terphenyl-d14
Concen: 70.184 ng
RT: 19.658 min Scan# 2070
Delta R.T. -0.000 min
Lab File: BN036996.D
Acq: 13 May 2025 15:14

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.2	9.5	14.3
122	15.5	13.4	20.0

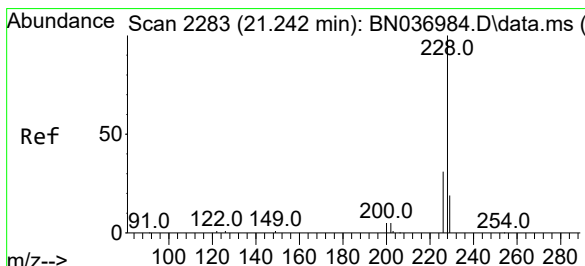
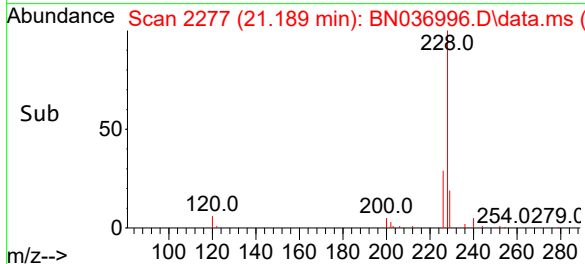
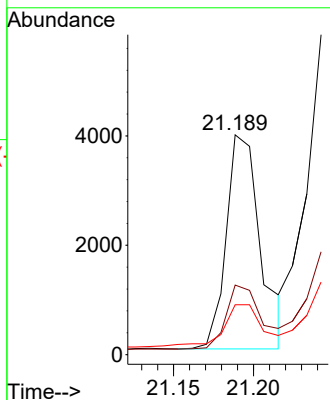
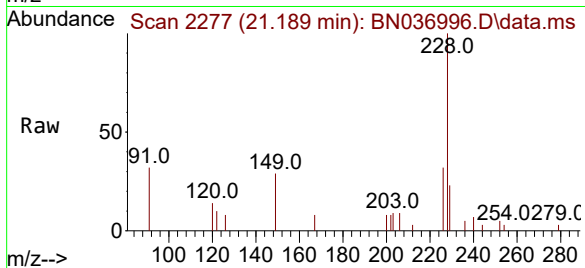




#32
Benzo(a)anthracene
Concen: 0.209 ng
RT: 21.189 min Scan# 2118
Delta R.T. -0.009 min
Lab File: BN036996.D
Acq: 13 May 2025 15:14

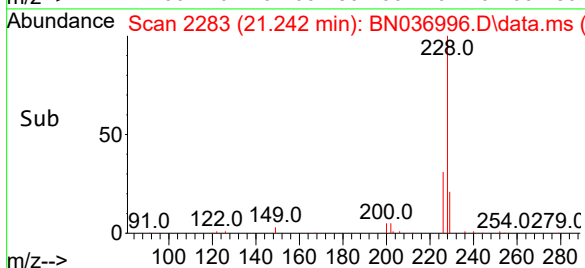
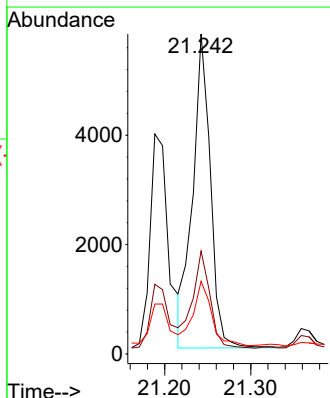
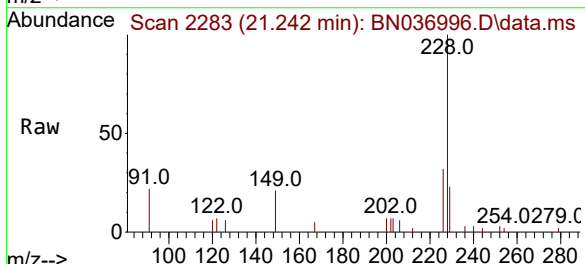
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-TRIAZINE-SOIL

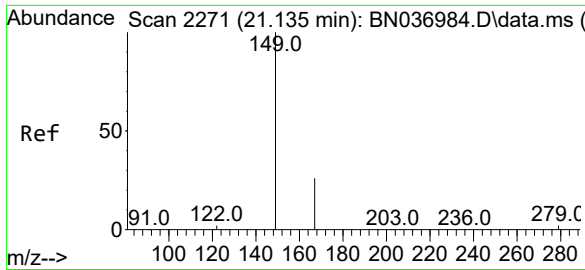
Tgt Ion:228 Resp: 5849
Ion Ratio Lower Upper
228 100
226 31.6 22.4 33.6
229 22.7 16.0 24.0



#33
Chrysene
Concen: 0.279 ng
RT: 21.242 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BN036996.D
Acq: 13 May 2025 15:14

Tgt Ion:228 Resp: 8232
Ion Ratio Lower Upper
228 100
226 32.2 25.7 38.5
229 22.7 16.0 24.0

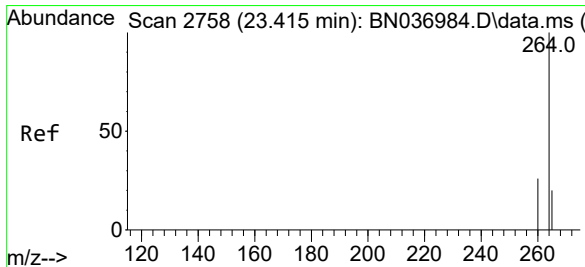
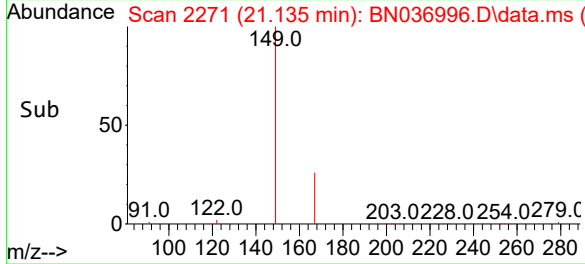
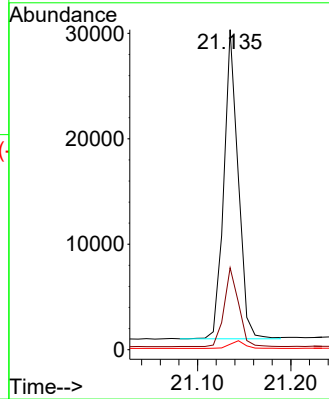
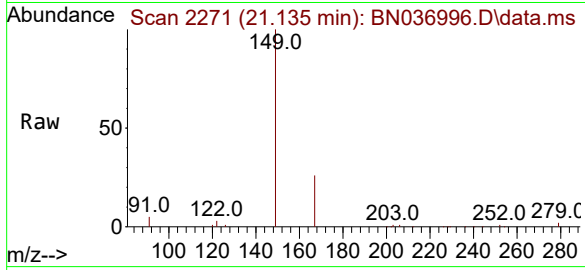




#34
Bis(2-ethylhexyl)phthalate
Concen: 1.812 ng
RT: 21.135 min Scan# 21165
Delta R.T. -0.000 min
Lab File: BN036996.D
Acq: 13 May 2025 15:14

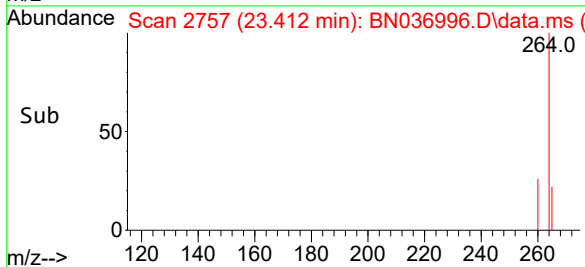
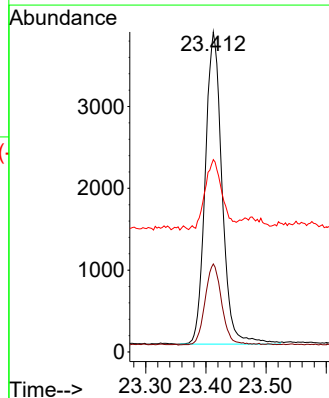
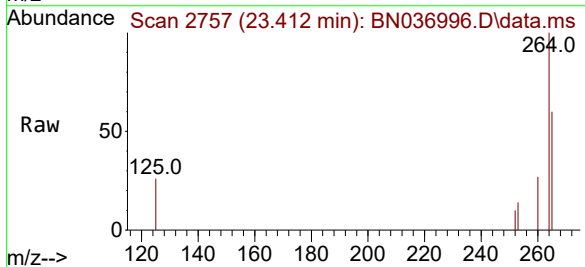
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-TRIAZINE-SOIL

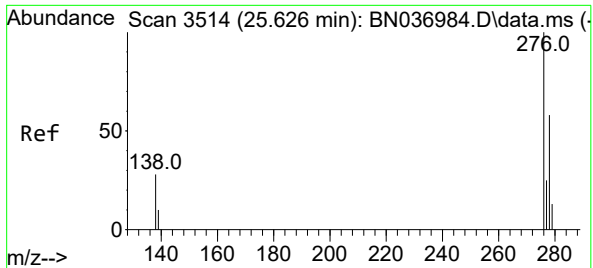
Tgt Ion:149 Resp: 31165
Ion Ratio Lower Upper
149 100
167 25.6 21.0 31.6
279 2.6 2.7 4.1#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.412 min Scan# 2757
Delta R.T. -0.003 min
Lab File: BN036996.D
Acq: 13 May 2025 15:14

Tgt Ion:264 Resp: 7397
Ion Ratio Lower Upper
264 100
260 27.5 22.3 33.5
265 60.1 55.4 83.0

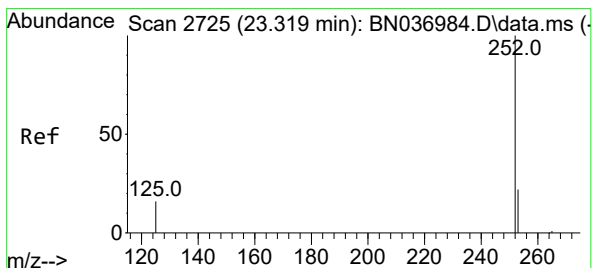
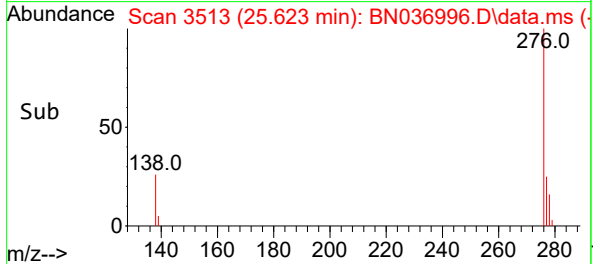
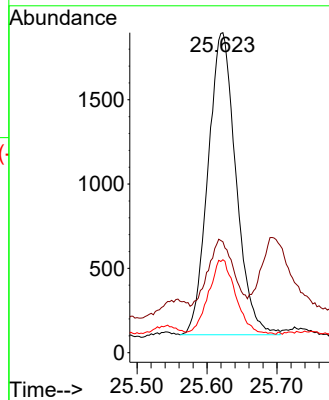
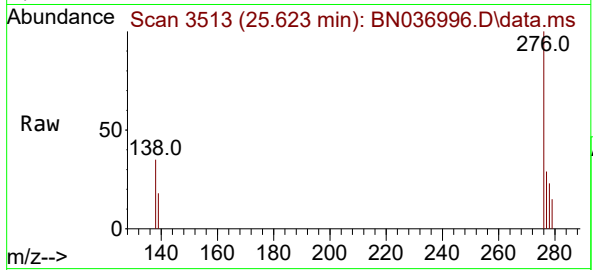




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.170 ng
RT: 25.623 min Scan# 3514
Delta R.T. -0.003 min
Lab File: BN036996.D
Acq: 13 May 2025 15:14

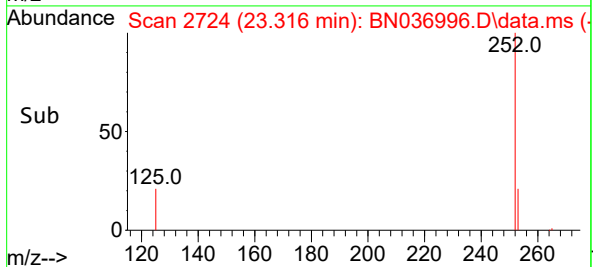
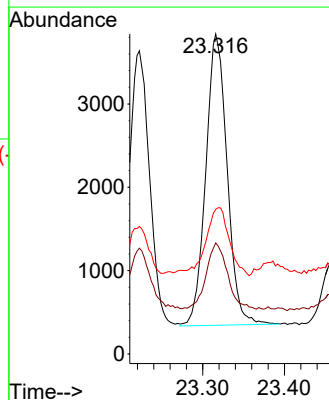
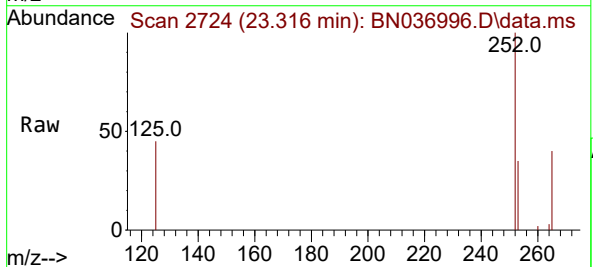
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-TRIAZINE-SOIL

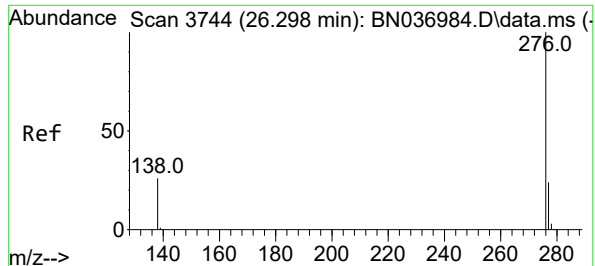
Tgt Ion:276 Resp: 4971
Ion Ratio Lower Upper
276 100
138 24.2 21.8 32.8
277 24.1 20.2 30.4



#39
Benzo(a)pyrene
Concen: 0.248 ng
RT: 23.316 min Scan# 2724
Delta R.T. -0.003 min
Lab File: BN036996.D
Acq: 13 May 2025 15:14

Tgt Ion:252 Resp: 6345
Ion Ratio Lower Upper
252 100
253 34.7 24.8 37.2
125 45.2 18.6 28.0#





#41

Benzo(g,h,i)perylene

Concen: 0.210 ng

RT: 26.295 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN036996.D

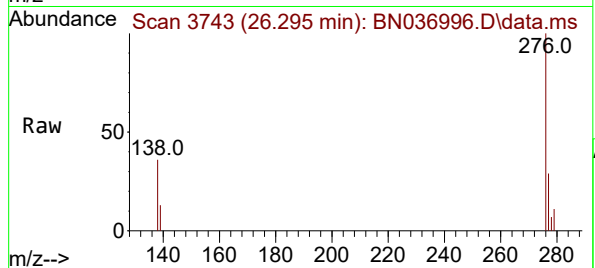
Acq: 13 May 2025 15:14

Instrument :

BNA_N

ClientSampleId :

HW0425-PT-TRIAZINE-SOIL



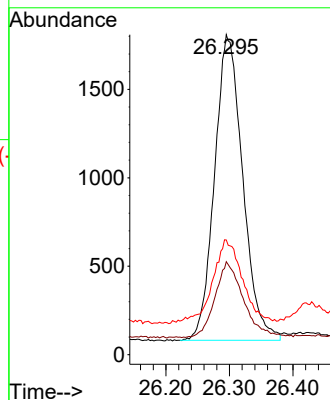
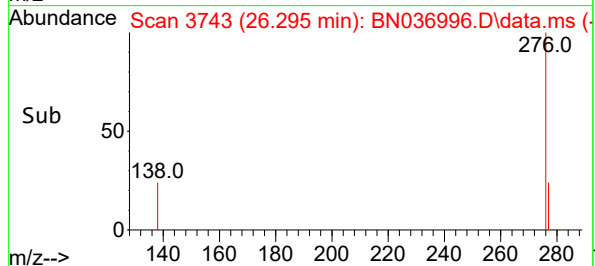
Tgt Ion:276 Resp: 5316

Ion Ratio Lower Upper

276 100

277 29.1 21.2 31.8

138 35.9 22.6 33.8#





CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN042825.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Mon Apr 28 15:35:03 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN036923.D 0.2 =BN036924.D 0.4 =BN036925.D 0.8 =BN036926.D 1.6 =BN036927.D 3.2 =BN036928.D 5.0 =BN036929.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	0.452	0.489	0.551	0.506	0.537	0.489	0.465	0.498	7.23
3)	n-Nitrosodimet...	0.903	0.998	1.010	0.957	1.034	0.952	0.918	0.967	5.01
4) S	2-Fluorophenol	1.050	1.056	1.118	0.946	1.040	0.982	0.970	1.023	5.86
5) S	Phenol-d6	1.270	1.237	1.337	1.151	1.294	1.255	1.272	1.259	4.57
6)	bis(2-Chloroet...	1.174	1.123	1.170	1.139	1.240	1.162	1.162	1.167	3.17
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.400	0.401	0.411	0.404	0.446	0.432	0.436	0.418	4.52
9)	Naphthalene	1.155	1.147	1.155	1.132	1.225	1.170	1.165	1.164	2.56
10)	Hexachlorobuta...	0.260	0.250	0.253	0.249	0.262	0.248	0.240	0.252	2.99
11) SURR2	Methylnaphth...	0.540	0.532	0.541	0.543	0.596	0.575	0.589	0.559	4.75
12)	2-Methylnaphth...	0.716	0.713	0.719	0.735	0.804	0.782	0.798	0.753	5.41
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.156	0.173	0.177	0.175	0.187	0.184	0.196	0.178	7.18
15) S	2-Fluorobiphenyl	1.877	1.975	2.055	1.690	2.023	1.986	1.928	1.933	6.32
16)	Acenaphthylene	1.876	1.850	1.907	1.884	2.067	2.035	2.066	1.955	4.93
17)	Acenaphthene	1.264	1.270	1.275	1.248	1.333	1.295	1.305	1.284	2.22
18)	Fluorene	1.604	1.612	1.624	1.658	1.788	1.720	1.752	1.680	4.39
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.083	0.090	0.096	0.113	0.120	0.134	0.106		18.55
21)	4-Bromophenyl-...	0.260	0.263	0.262	0.260	0.282	0.272	0.270	0.267	3.11
22)	Hexachlorobenzene	0.301	0.289	0.300	0.280	0.303	0.293	0.282	0.293	3.18
23)	Atrazine	0.193	0.198	0.199	0.217	0.227	0.226	0.248	0.215	9.20
24)	Pentachlorophenol	0.160	0.136	0.144	0.145	0.163	0.168	0.181	0.157	10.06
25)	Phenanthrene	1.309	1.274	1.299	1.280	1.387	1.346	1.347	1.320	3.13
26)	Anthracene	1.131	1.108	1.147	1.138	1.275	1.261	1.299	1.194	6.74
27) SURR	Fluoranthene-d10	0.993	1.004	0.991	1.016	1.087	1.053	1.115	1.037	4.74
28)	Fluoranthene	1.387	1.380	1.399	1.471	1.578	1.530	1.613	1.480	6.46
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.919	1.942	1.958	1.802	2.073	1.969	1.823	1.927	4.77
31) S	Terphenyl-d14	0.974	0.942	0.946	0.893	1.005	0.952	0.897	0.944	4.22
32)	Benzo(a)anthra...	1.402	1.407	1.429	1.422	1.583	1.509	1.561	1.473	5.19
33)	Chrysene	1.517	1.576	1.637	1.582	1.700	1.572	1.536	1.589	3.91
34)	Bis(2-ethylhex...	0.949	0.847	0.834	0.784	0.804	0.782	0.866	0.838	6.96
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN042825.M

36)	Indeno(1,2,3-c...	1.595	1.571	1.712	1.503	1.720	1.724	1.609	1.634	5.29
37)	Benzo(b)fluora...	1.580	1.552	1.634	1.628	1.796	1.758	1.825	1.682	6.50
38)	Benzo(k)fluora...	1.601	1.569	1.648	1.641	1.812	1.784	1.785	1.691	5.89
39) C	Benzo(a)pyrene	1.315	1.301	1.361	1.315	1.463	1.447	1.477	1.383	5.57
40)	Dibenzo(a,h)an...	1.229	1.241	1.349	1.176	1.357	1.379	1.268	1.286	5.96
41)	Benzo(g,h,i)pe...	1.459	1.405	1.515	1.305	1.495	1.470	1.339	1.427	5.61

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036923.D
 Acq On : 28 Apr 2025 11:35
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 04/29/2025
 Supervised By :Jagrut Upadhyay 04/29/2025

Quant Time: Apr 28 15:11:53 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:11:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2671	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	6571	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3486	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	6515	0.400	ng	0.00
29) Chrysene-d12	21.215	240	4809	0.400	ng	0.00
35) Perylene-d12	23.427	264	4185	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	701	0.102	ng	0.00
5) Phenol-d6	6.802	99	848	0.101	ng	0.00
8) Nitrobenzene-d5	8.781	82	657	0.096	ng	0.00
11) 2-Methylnaphthalene-d10	12.011	152	887	0.097	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	136	0.089	ng	0.00
15) 2-Fluorobiphenyl	12.898	172	1636	0.097	ng	0.00
27) Fluoranthene-d10	19.059	212	1617	0.097	ng	0.00
31) Terphenyl-d14	19.662	244	1171	0.102	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.155	88	302m	0.090	ng	
3) n-Nitrosodimethylamine	3.473	42	603	0.093	ng	# 92
6) bis(2-Chloroethyl)ether	7.062	93	784	0.101	ng	98
9) Naphthalene	10.458	128	1897	0.099	ng	# 93
10) Hexachlorobutadiene	10.756	225	427	0.102	ng	# 99
12) 2-Methylnaphthalene	12.082	142	1176	0.096	ng	98
16) Acenaphthylene	13.999	152	1635	0.097	ng	100
17) Acenaphthene	14.341	154	1102	0.099	ng	98
18) Fluorene	15.325	166	1398	0.096	ng	99
21) 4-Bromophenyl-phenylether	16.227	248	424	0.098	ng	95
22) Hexachlorobenzene	16.338	284	490	0.102	ng	97
23) Atrazine	16.500	200	314	0.092	ng	# 92
24) Pentachlorophenol	16.686	266	261	0.105	ng	92
25) Phenanthrene	17.058	178	2132	0.099	ng	98
26) Anthracene	17.157	178	1842	0.096	ng	100
28) Fluoranthene	19.091	202	2259	0.095	ng	97
30) Pyrene	19.453	202	2307	0.099	ng	98
32) Benzo(a)anthracene	21.197	228	1685	0.096	ng	96
33) Chrysene	21.251	228	1824	0.095	ng	96
34) Bis(2-ethylhexyl)phtha...	21.144	149	1141	0.114	ng	99
36) Indeno(1,2,3-cd)pyrene	25.646	276	1669	0.097	ng	99
37) Benzo(b)fluoranthene	22.763	252	1653	0.095	ng	# 66
38) Benzo(k)fluoranthene	22.810	252	1675	0.096	ng	# 63
39) Benzo(a)pyrene	23.330	252	1376	0.096	ng	# 61
40) Dibenzo(a,h)anthracene	25.658	278	1286	0.095	ng	# 70
41) Benzo(g,h,i)perylene	26.324	276	1527	0.101	ng	# 86

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

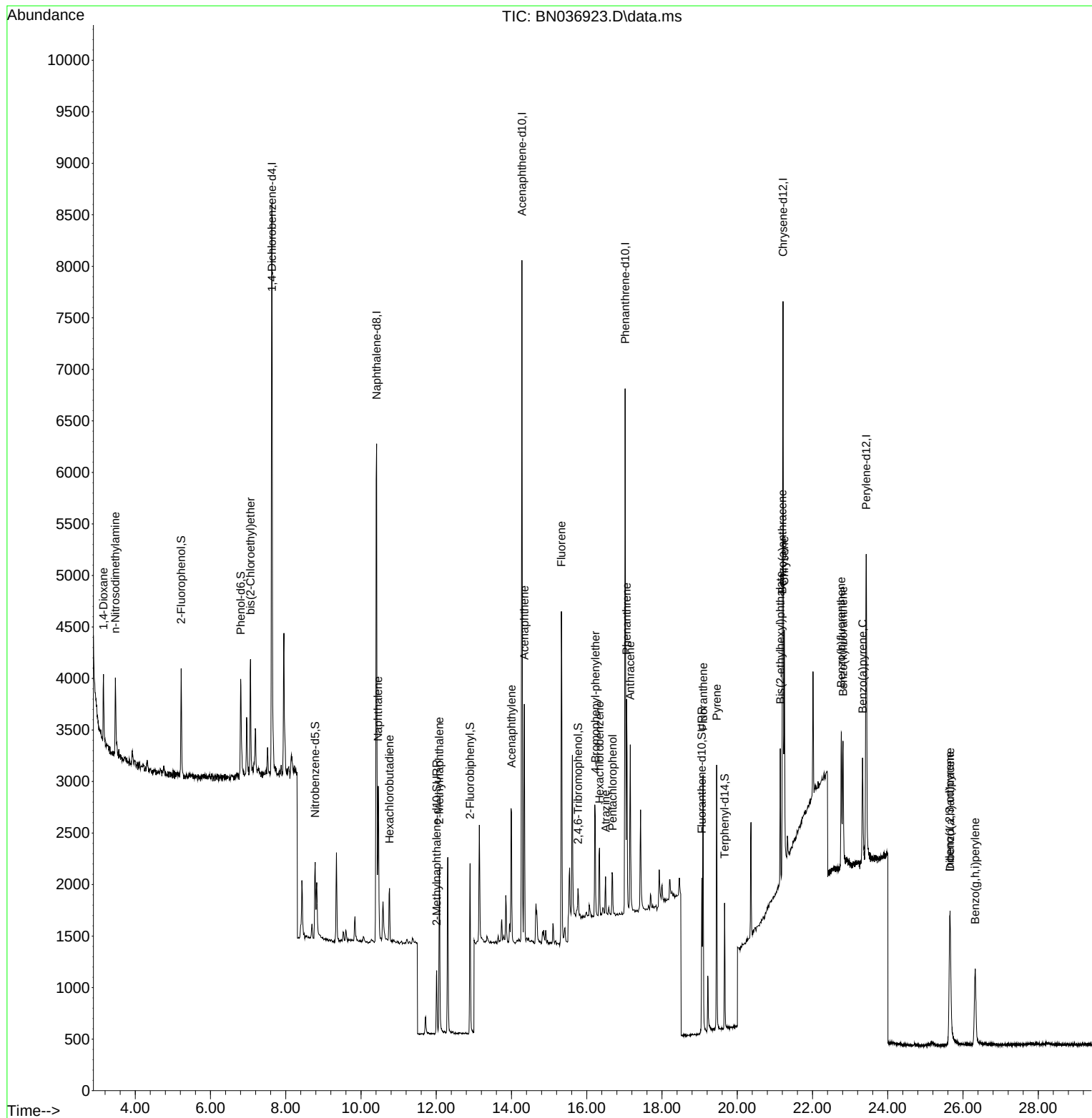
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 Data File : BN036923.D
 Acq On : 28 Apr 2025 11:35
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

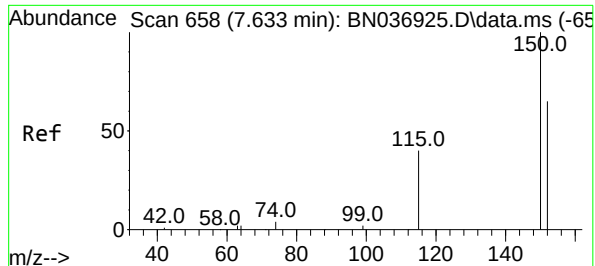
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

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Reviewed By :Rahul Chavli 04/29/2025
 Supervised By :Jagrut Upadhyay 04/29/2025

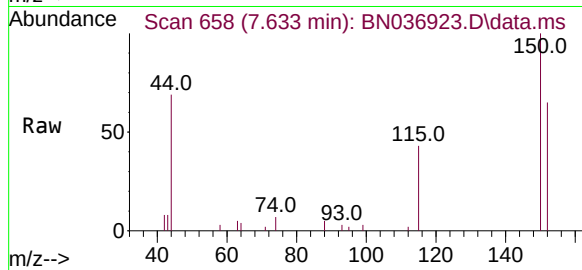
Quant Time: Apr 28 15:11:53 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:11:09 2025
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

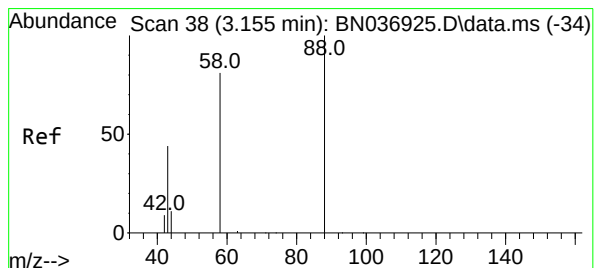
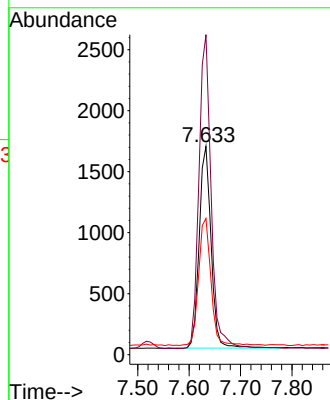
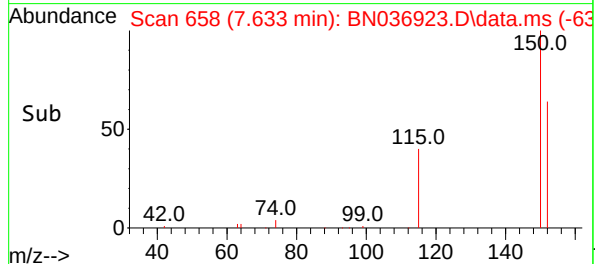
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 152 Resp: 267
Ion Ratio Lower Upper
152 100
150 153.7 121.1 181.7
115 65.4 51.8 77.6

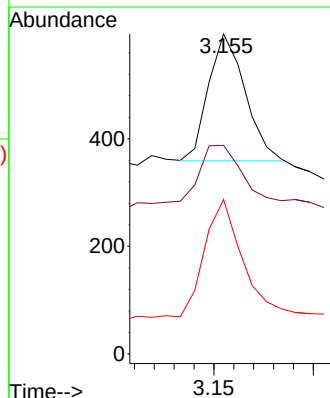
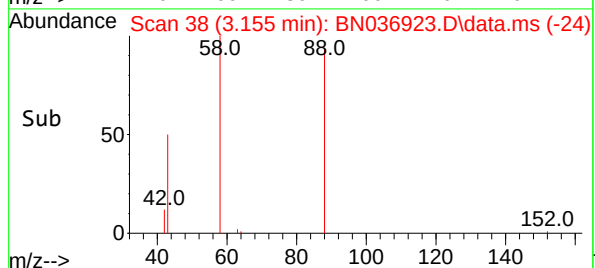
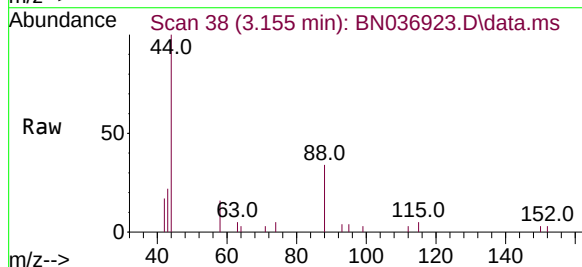
Manual Integrations
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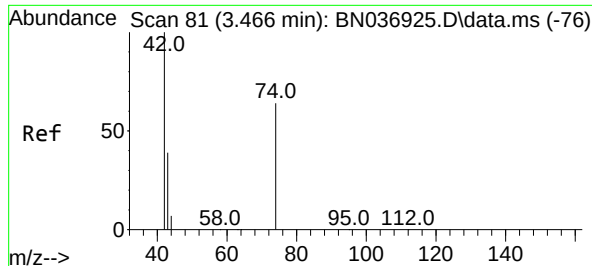
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#2
1,4-Dioxane
Concen: 0.090 ng m
RT: 3.155 min Scan# 38
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion: 88 Resp: 302
Ion Ratio Lower Upper
88 100
43 74.8 37.9 56.9#
58 106.0 65.8 98.6#





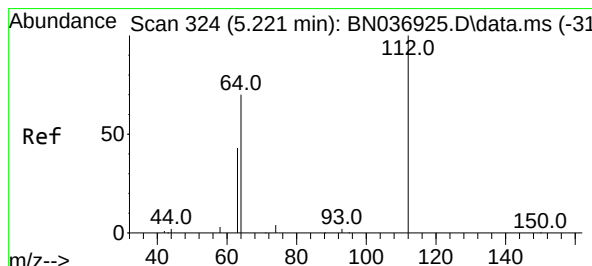
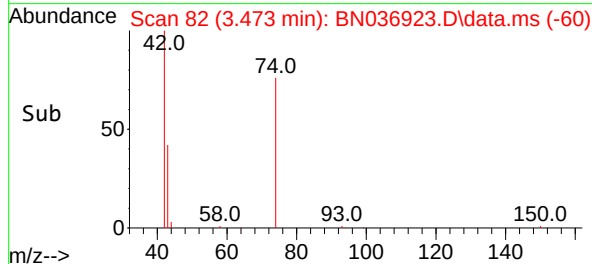
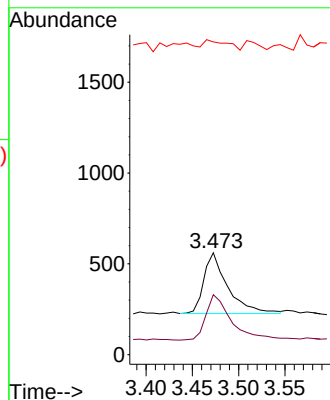
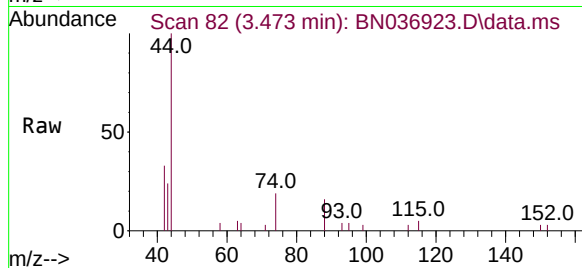
#3
n-Nitrosodimethylamine
Concen: 0.093 ng
RT: 3.473 min Scan# 81
Delta R.T. 0.007 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 42 Resp: 600
Ion Ratio Lower Upper
42 100
74 80.8 59.9 89.9
44 15.4 7.5 11.3

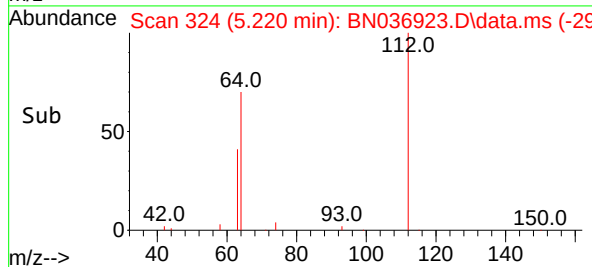
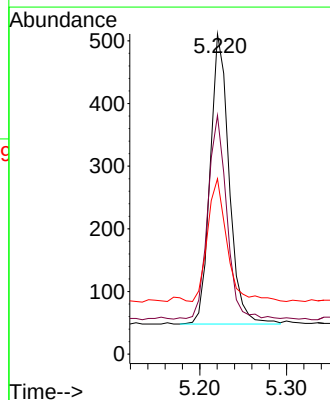
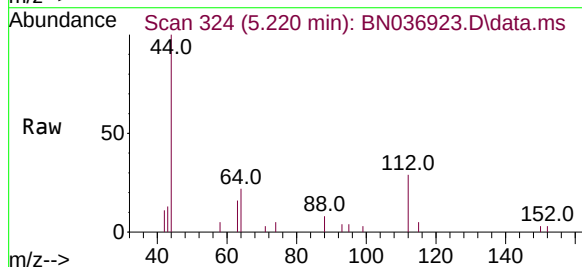
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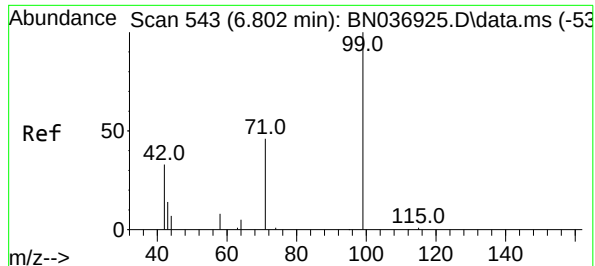
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#4
2-Fluorophenol
Concen: 0.102 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:112 Resp: 701
Ion Ratio Lower Upper
112 100
64 71.9 55.7 83.5
63 43.5 33.9 50.9





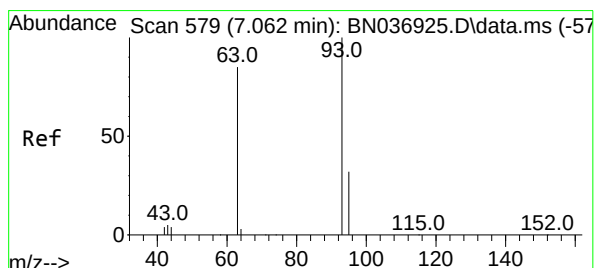
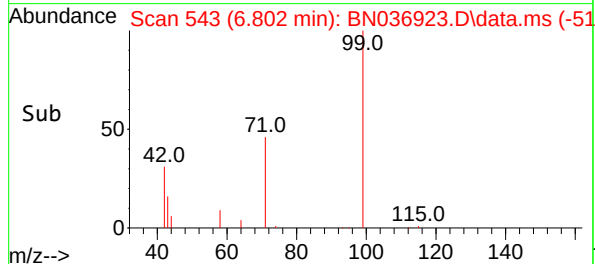
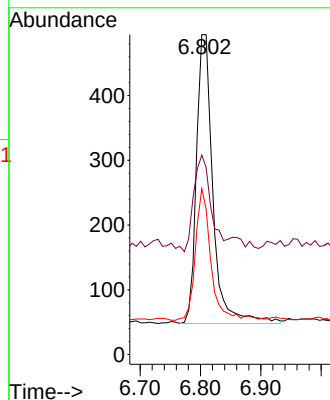
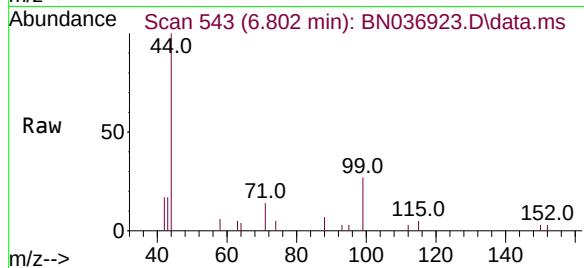
#5
Phenol-d6
Concen: 0.101 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion	Ratio	Lower	Upper
99	100		
42	35.0	29.6	44.4
71	41.5	36.0	54.0

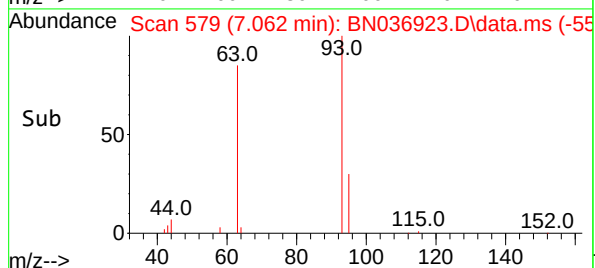
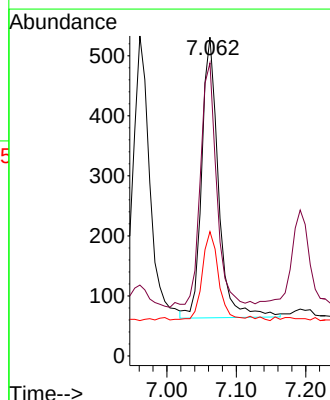
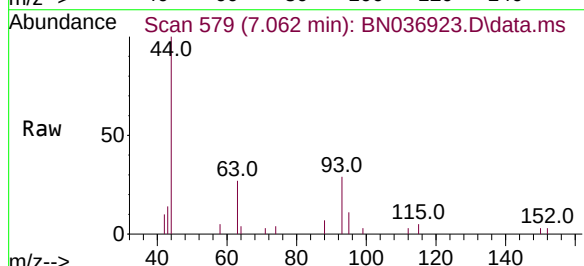
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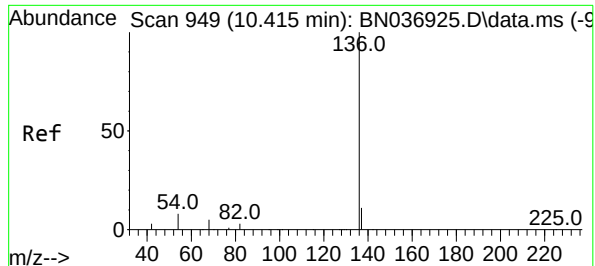
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.101 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

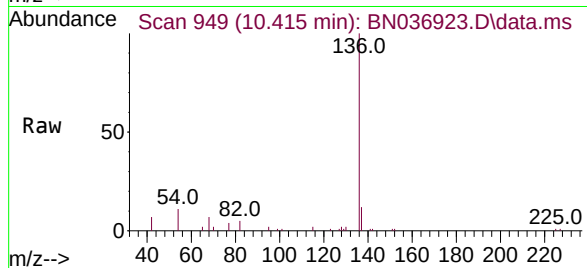
Tgt Ion	Ratio	Lower	Upper
93	100		
63	85.7	69.0	103.6
95	29.5	25.4	38.0





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

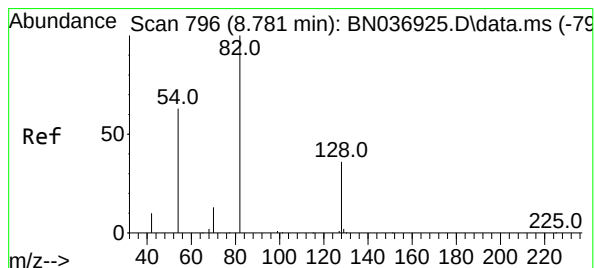
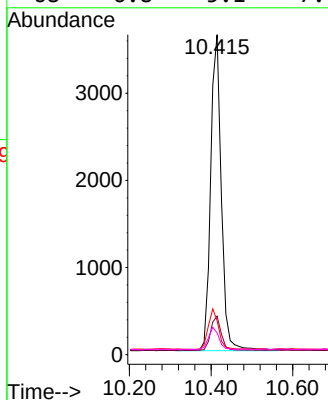
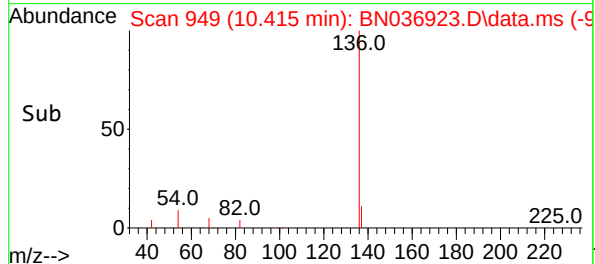
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:136 Resp: 657
Ion Ratio Lower Upper
136 100
137 12.0 9.7 14.5
54 10.6 8.0 12.0
68 6.8 5.1 7.7

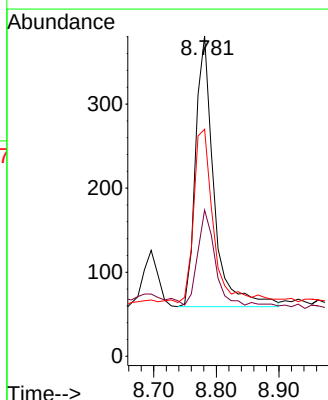
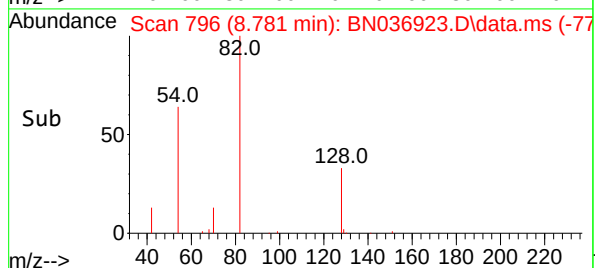
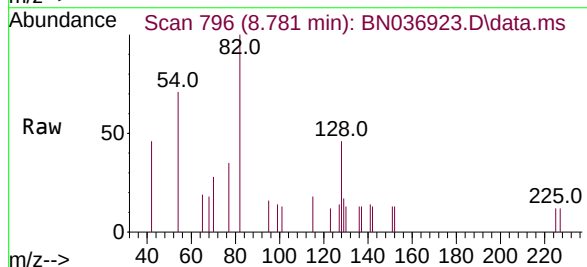
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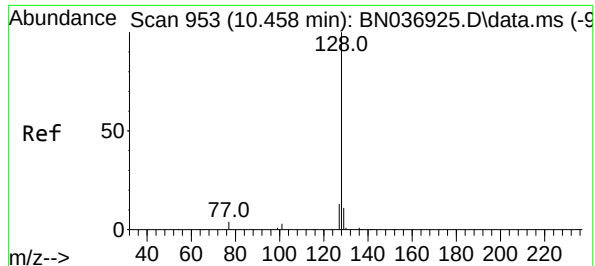
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#8
Nitrobenzene-d5
Concen: 0.096 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion: 82 Resp: 657
Ion Ratio Lower Upper
82 100
128 45.7 30.7 46.1
54 70.9 52.1 78.1





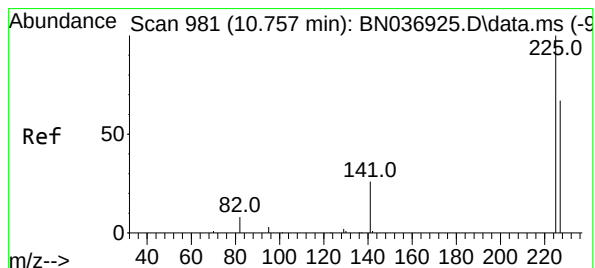
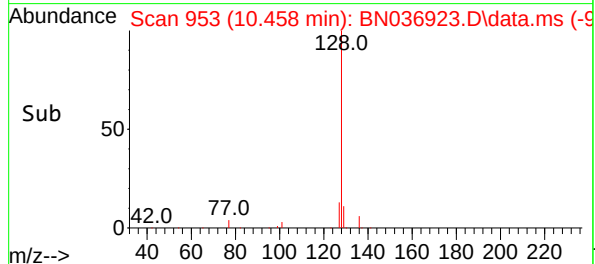
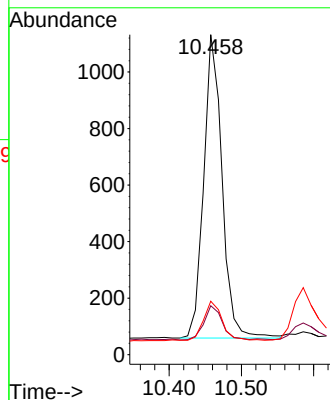
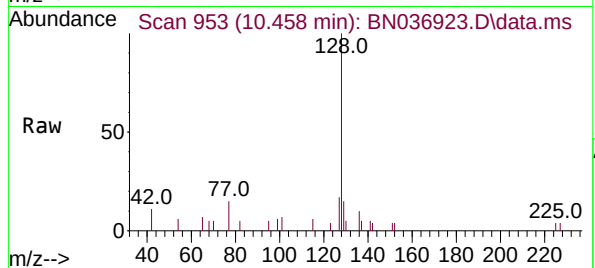
#9
Naphthalene
Concen: 0.099 ng
RT: 10.458 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 189
Ion Ratio Lower Upper
128 100
129 15.3 9.8 14.6
127 16.7 11.4 17.2

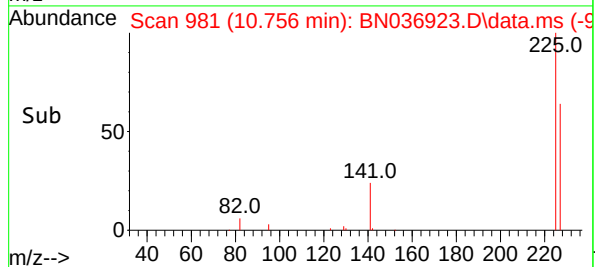
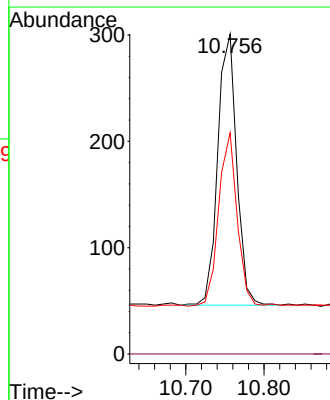
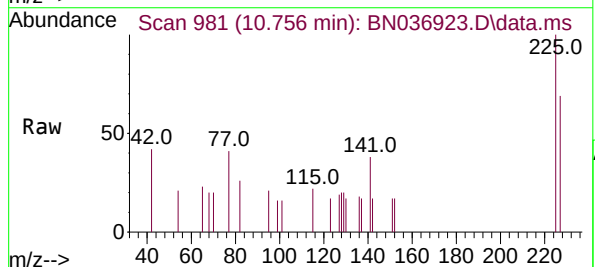
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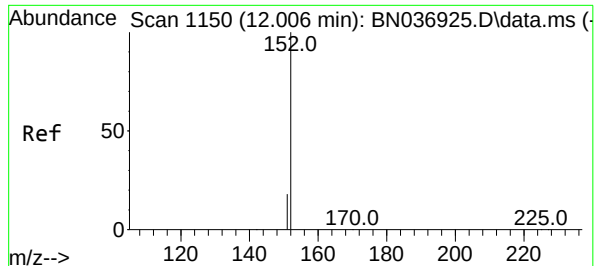
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#10
Hexachlorobutadiene
Concen: 0.102 ng
RT: 10.756 min Scan# 981
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

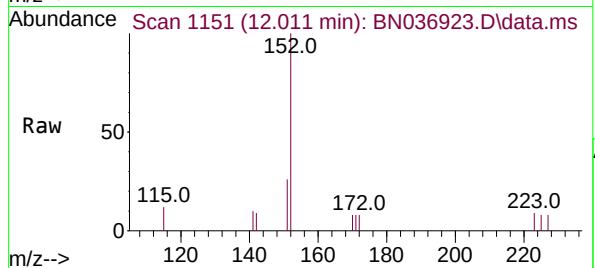
Tgt Ion:225 Resp: 427
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.2 52.2 78.4





#11
2-Methylnaphthalene-d10
Concen: 0.097 ng
RT: 12.011 min Scan# 1151
Delta R.T. 0.005 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

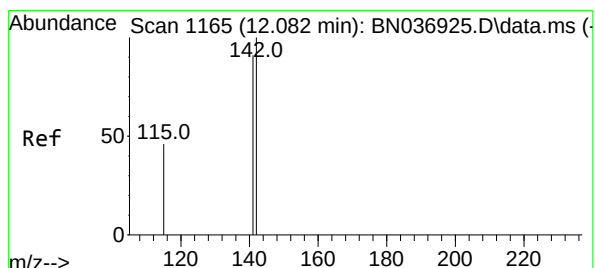
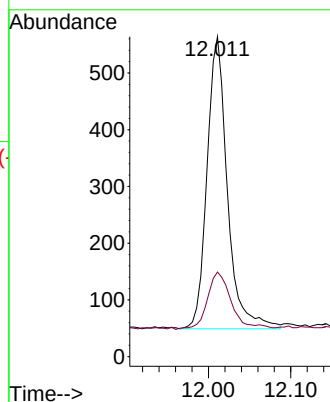
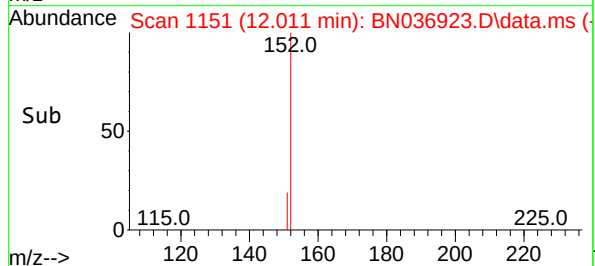
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:152 Resp: 88
Ion Ratio Lower Upper
152 100
151 23.2 16.9 25.3

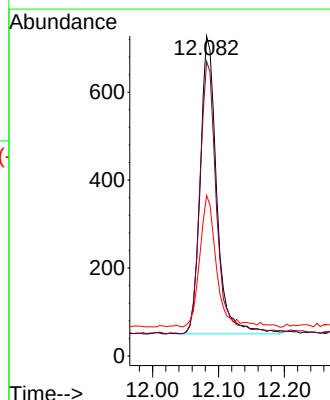
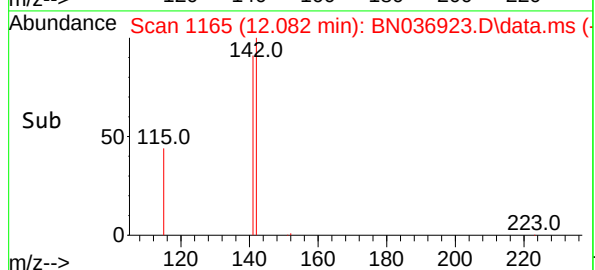
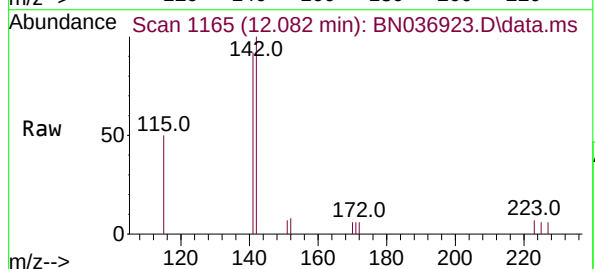
Manual Integrations
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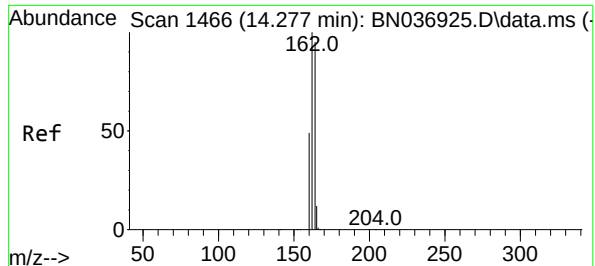
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#12
2-Methylnaphthalene
Concen: 0.096 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

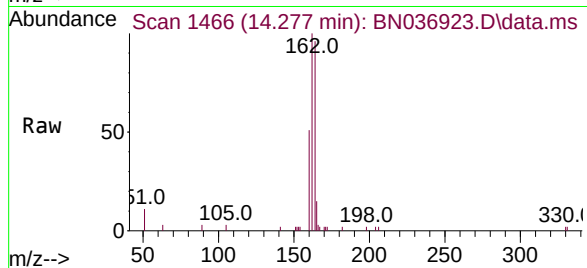
Tgt Ion:142 Resp: 1176
Ion Ratio Lower Upper
142 100
141 92.0 72.8 109.2
115 50.1 38.2 57.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

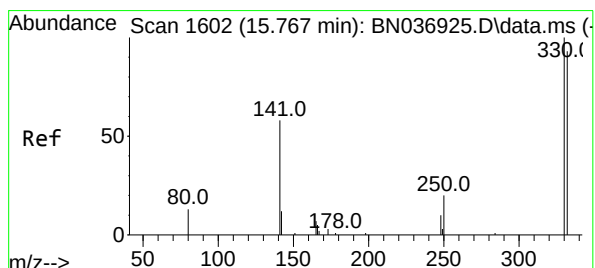
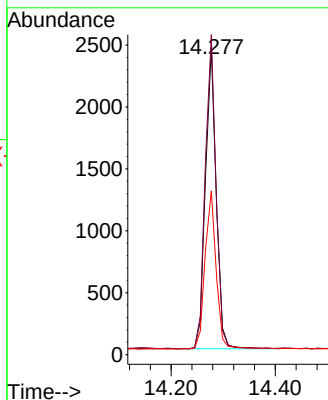
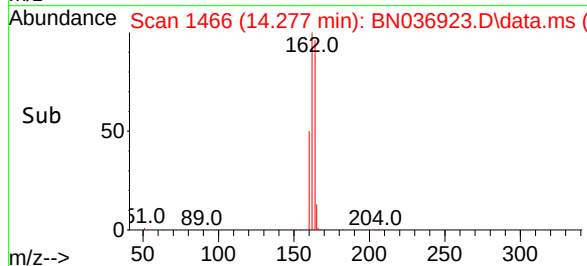
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ClientSampleId :
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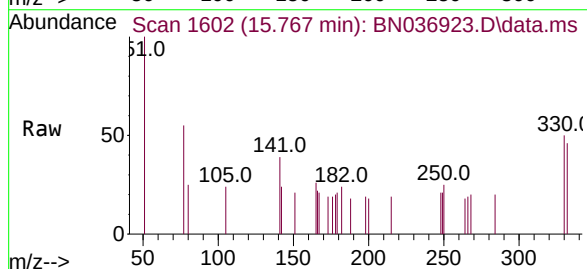
Tgt Ion:164 Resp: 3480
Ion Ratio Lower Upper
164 100
162 104.4 83.8 125.8
160 53.4 42.0 63.0

Manual Integrations
APPROVED

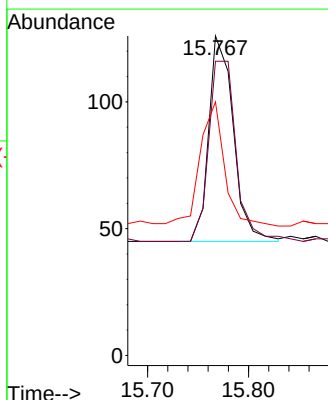
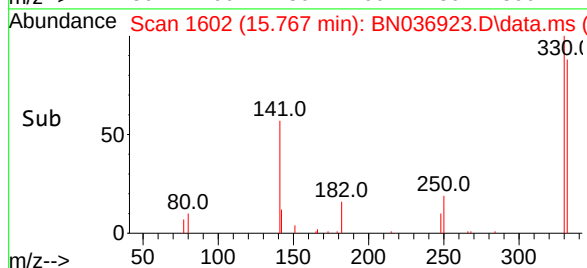
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025

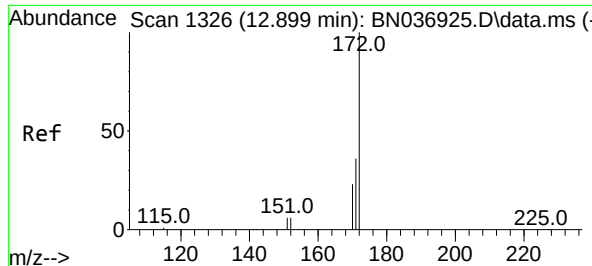


#14
2,4,6-Tribromophenol
Concen: 0.089 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35



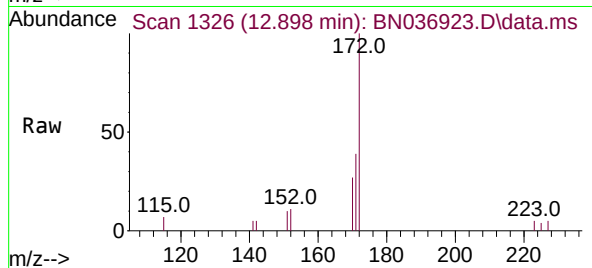
Tgt Ion:330 Resp: 136
Ion Ratio Lower Upper
330 100
332 99.3 76.3 114.5
141 61.0 45.4 68.2





#15
2-Fluorobiphenyl
Concen: 0.097 ng
RT: 12.898 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

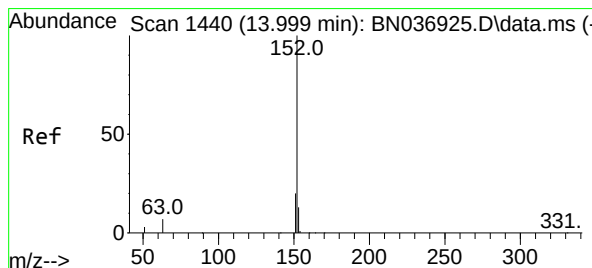
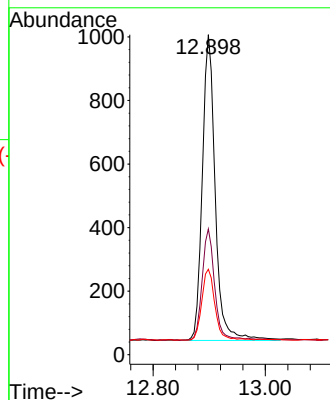
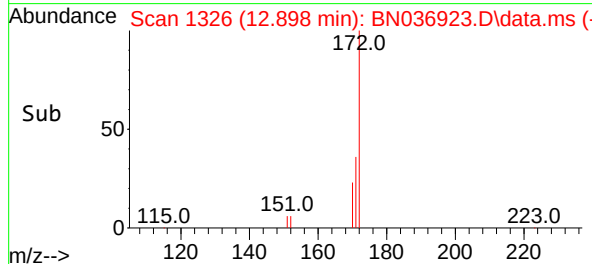
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:172 Resp: 1630
Ion Ratio Lower Upper
172 100
171 39.3 29.4 44.0
170 26.7 19.4 29.0

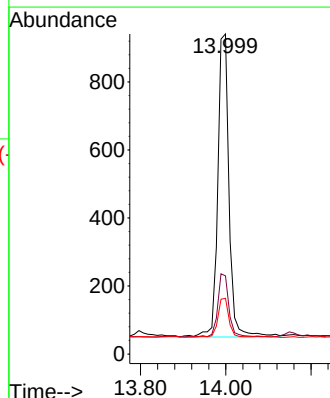
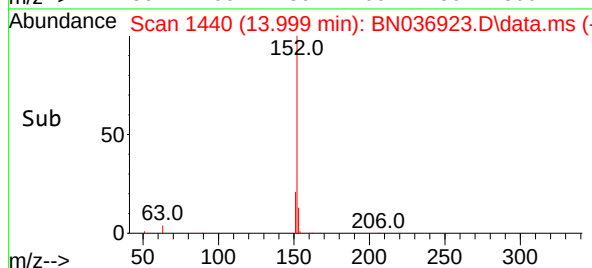
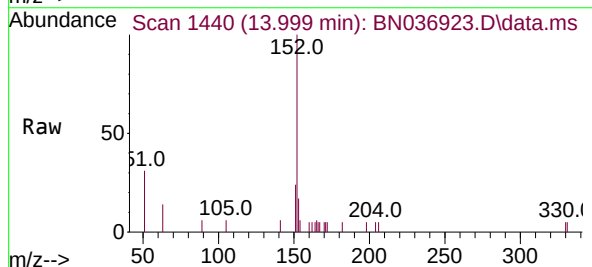
Manual Integrations
APPROVED

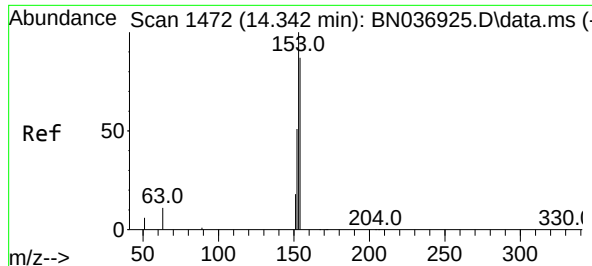
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#16
Acenaphthylene
Concen: 0.097 ng
RT: 13.999 min Scan# 1440
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

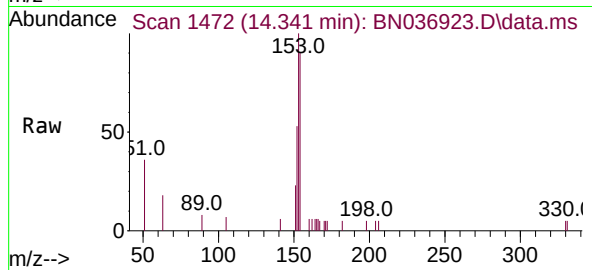
Tgt Ion:152 Resp: 1635
Ion Ratio Lower Upper
152 100
151 20.0 16.0 24.0
153 12.7 10.2 15.2





#17
Acenaphthene
Concen: 0.099 ng
RT: 14.341 min Scan# 1472
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

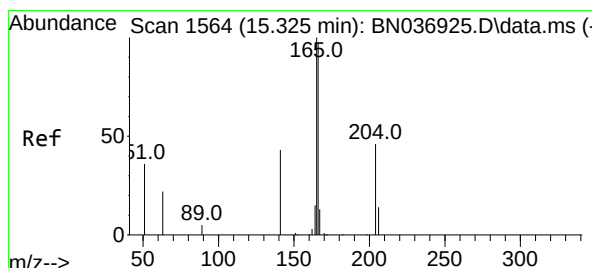
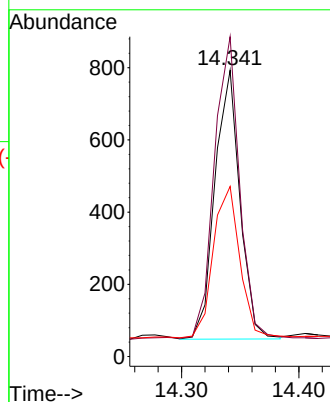
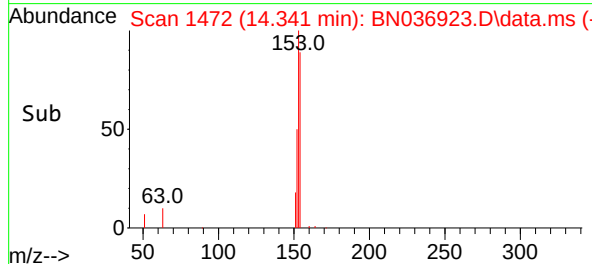
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:154 Resp: 1102
Ion Ratio Lower Upper
154 100
153 115.4 93.4 140.2
152 60.2 49.5 74.3

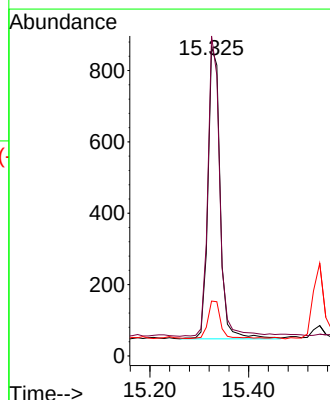
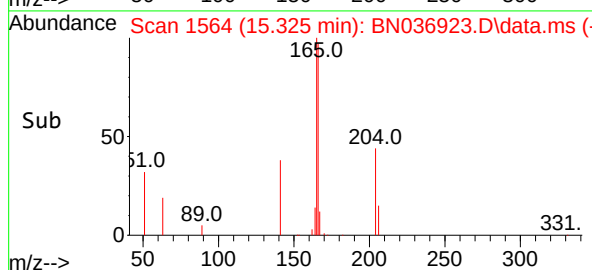
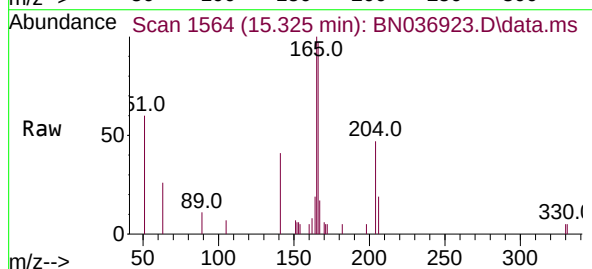
Manual Integrations
APPROVED

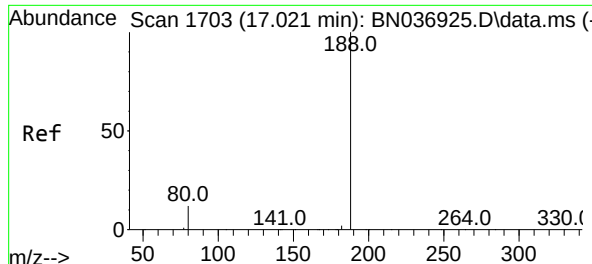
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#18
Fluorene
Concen: 0.096 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

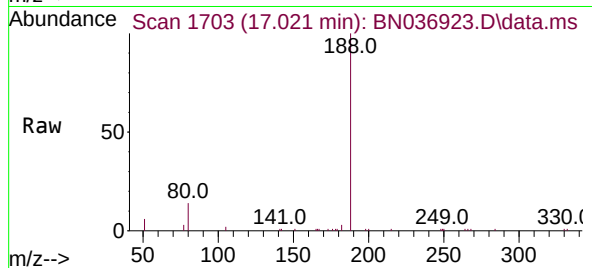
Tgt Ion:166 Resp: 1398
Ion Ratio Lower Upper
166 100
165 99.7 80.8 121.2
167 13.4 10.8 16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

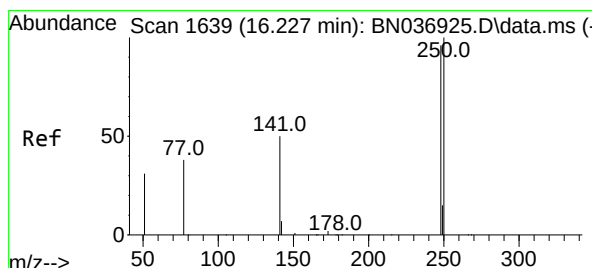
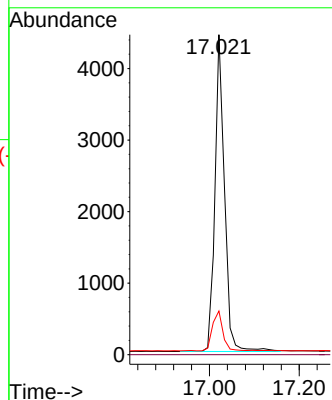
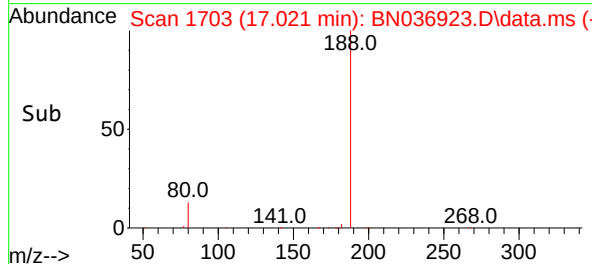
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:188 Resp: 651
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.7 10.7 16.1

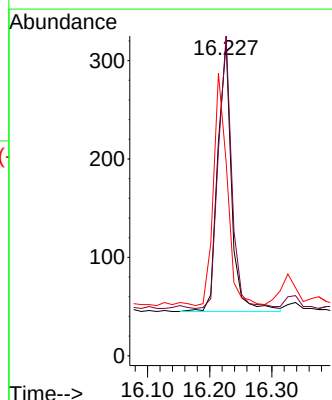
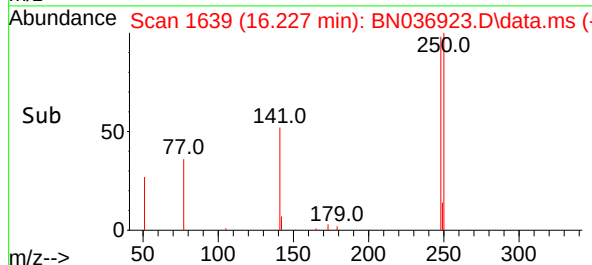
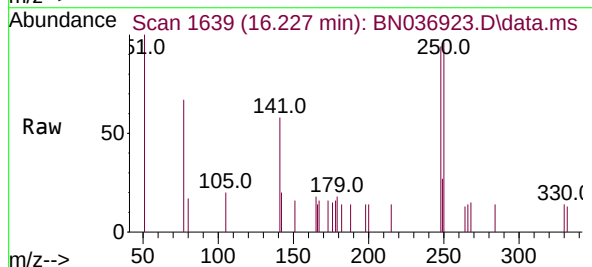
Manual Integrations
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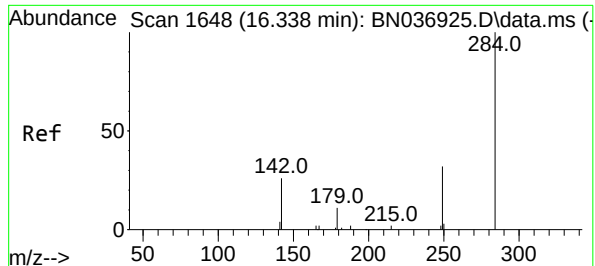
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#21
4-Bromophenyl-phenylether
Concen: 0.098 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:248 Resp: 424
Ion Ratio Lower Upper
248 100
250 102.2 83.7 125.5
141 61.9 43.8 65.8





#22

Hexachlorobenzene

Concen: 0.102 ng

RT: 16.338 min Scan# 1648

Delta R.T. -0.000 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

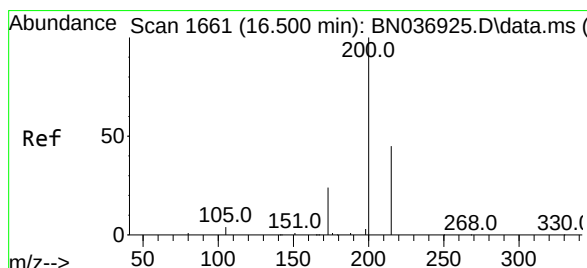
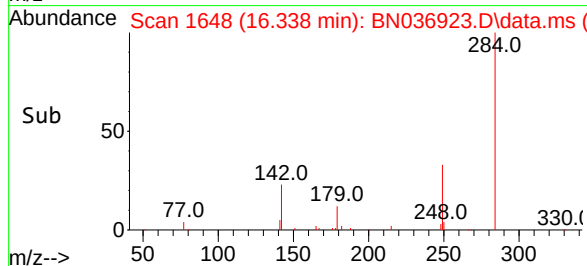
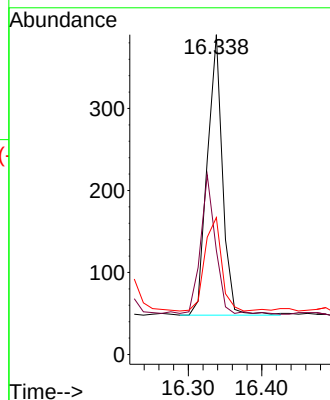
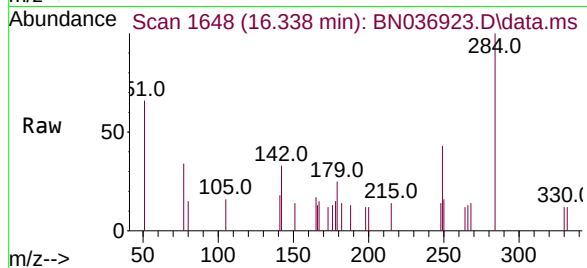
Tgt Ion:284 Resp: 490
Ion Ratio Lower Upper
284 100
142 51.0 40.0 60.0
249 37.8 28.2 42.2

Manual Integrations

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Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#23

Atrazine

Concen: 0.092 ng

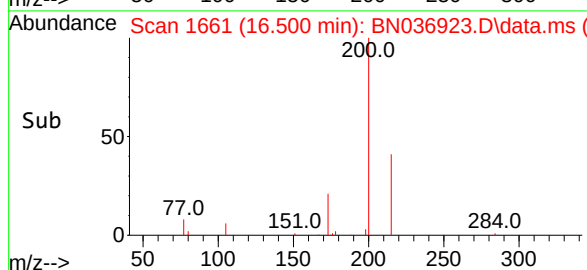
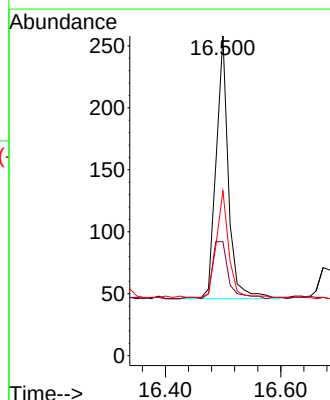
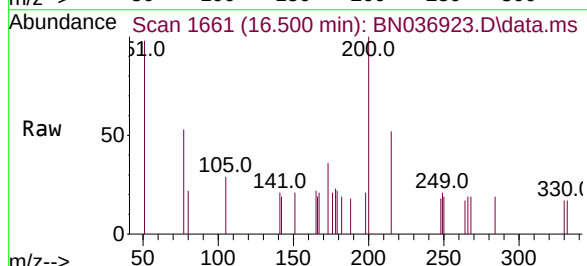
RT: 16.500 min Scan# 1661

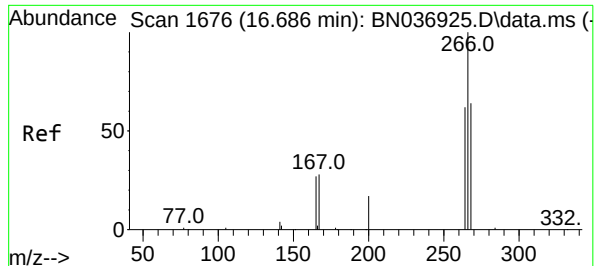
Delta R.T. -0.000 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

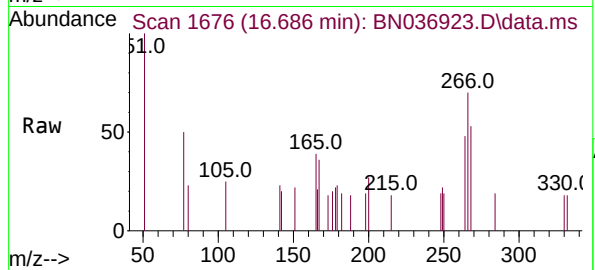
Tgt Ion:200 Resp: 314
Ion Ratio Lower Upper
200 100
173 35.7 22.4 33.6#
215 51.6 38.6 57.8





#24
Pentachlorophenol
Concen: 0.105 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

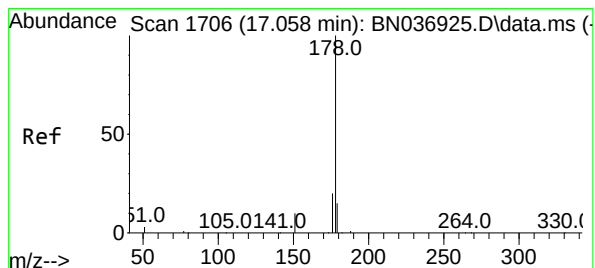
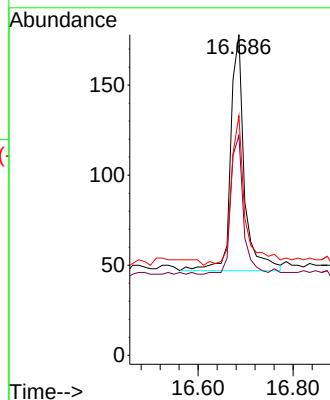
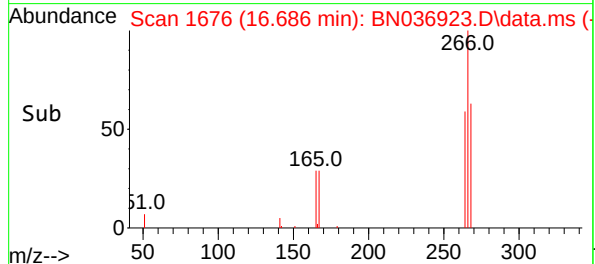
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 266 Resp: 266
Ion Ratio Lower Upper
266 100
264 54.0 49.9 74.9
268 61.3 52.2 78.4

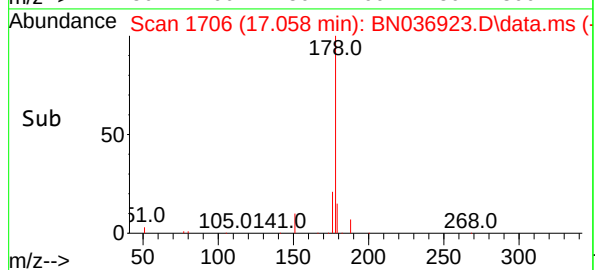
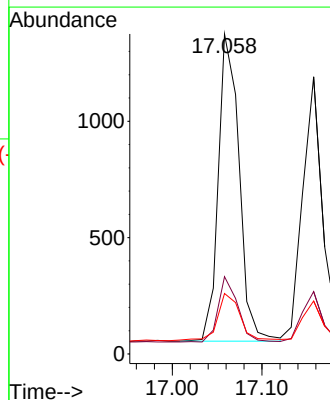
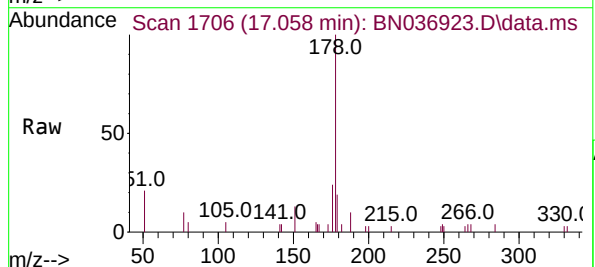
Manual Integrations
APPROVED

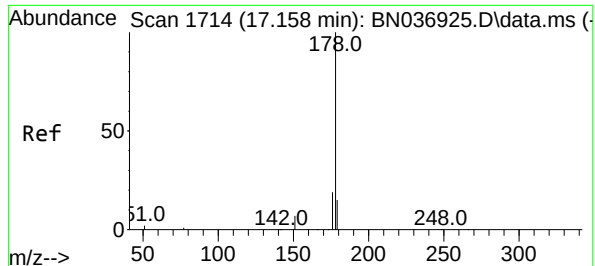
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#25
Phenanthrene
Concen: 0.099 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion: 178 Resp: 2132
Ion Ratio Lower Upper
178 100
176 19.9 15.7 23.5
179 16.7 12.4 18.6





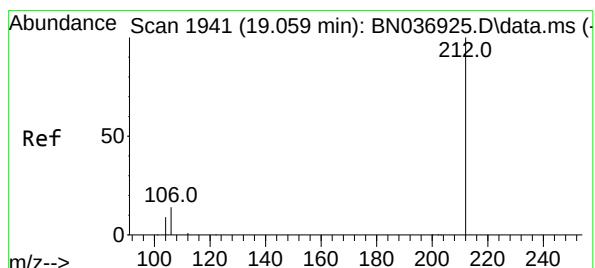
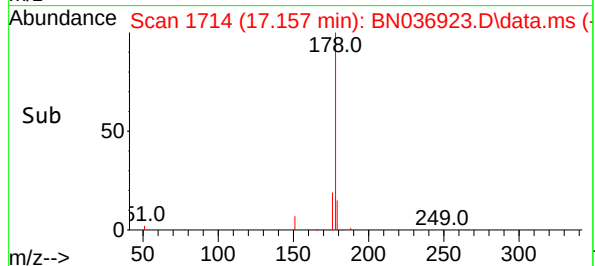
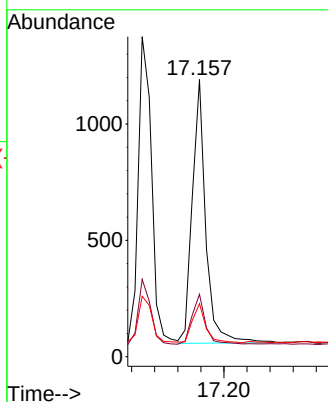
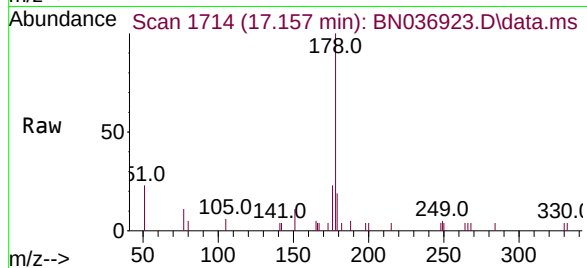
#26
Anthracene
Concen: 0.096 ng
RT: 17.157 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 184
Ion Ratio Lower Upper
178 100
176 18.8 15.3 22.9
179 15.1 12.1 18.1

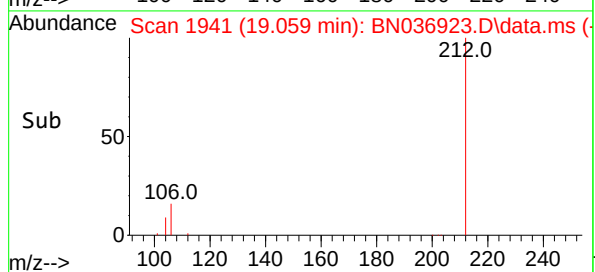
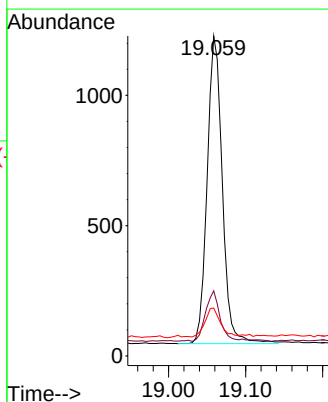
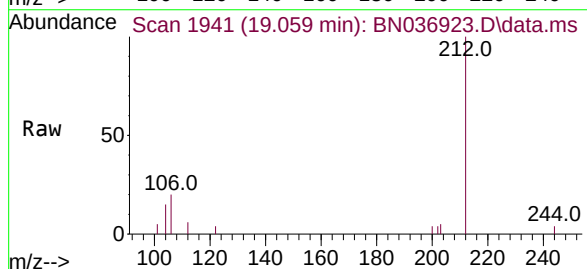
Manual Integrations
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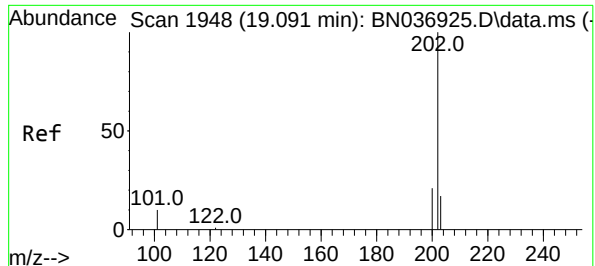
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#27
Fluoranthene-d10
Concen: 0.097 ng
RT: 19.059 min Scan# 1941
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

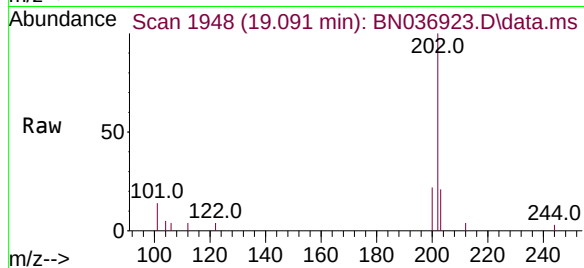
Tgt Ion:212 Resp: 1617
Ion Ratio Lower Upper
212 100
106 16.3 11.6 17.4
104 9.3 7.0 10.4





#28
Fluoranthene
Concen: 0.095 ng
RT: 19.091 min Scan# 1948
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

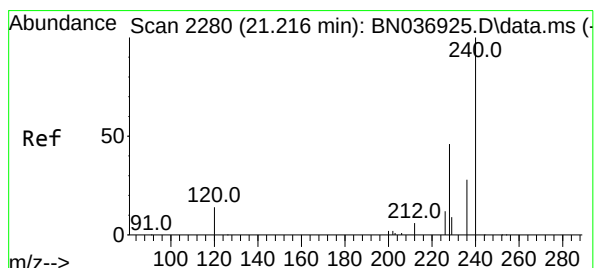
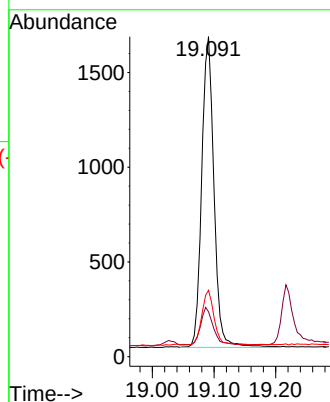
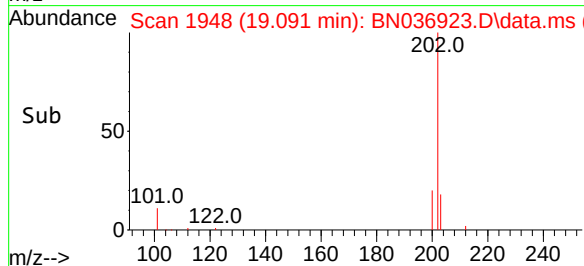
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:202 Resp: 2259
Ion Ratio Lower Upper
202 100
101 12.3 8.5 12.7
203 17.9 13.7 20.5

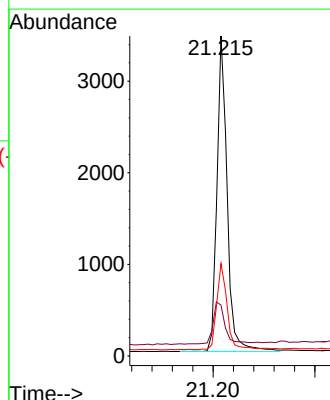
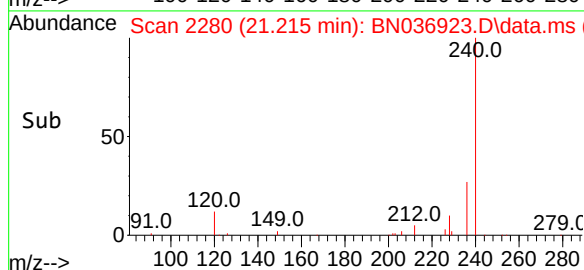
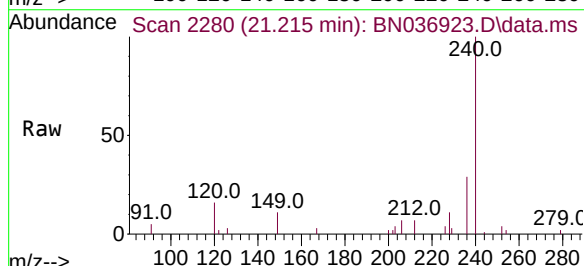
Manual Integrations
APPROVED

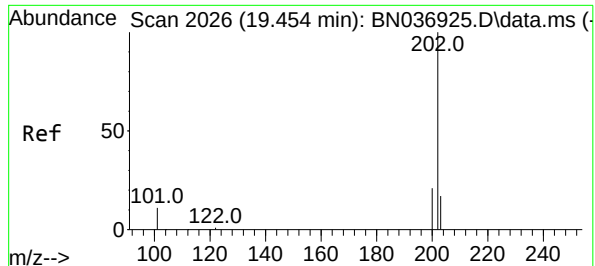
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.215 min Scan# 2280
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

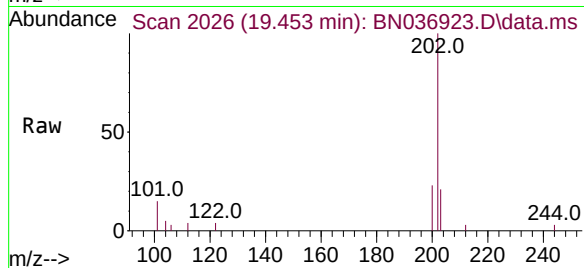
Tgt Ion:240 Resp: 4809
Ion Ratio Lower Upper
240 100
120 15.9 14.1 21.1
236 28.9 23.8 35.8





#30
Pyrene
Concen: 0.099 ng
RT: 19.453 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

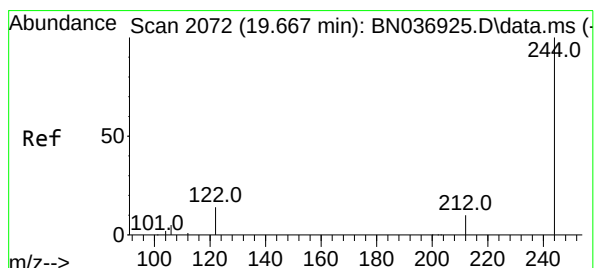
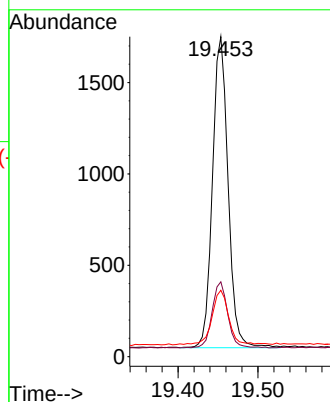
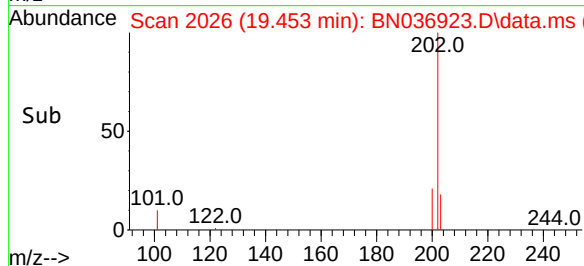
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.6
203	19.4	14.0	21.0

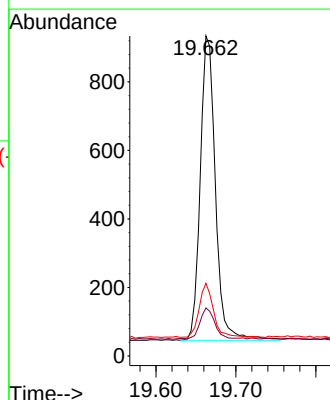
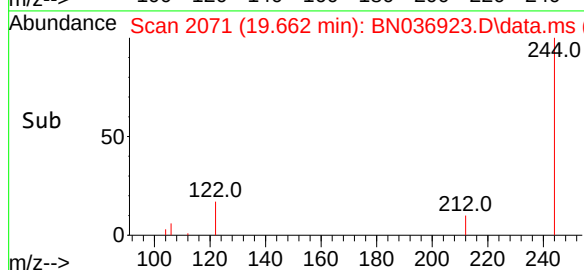
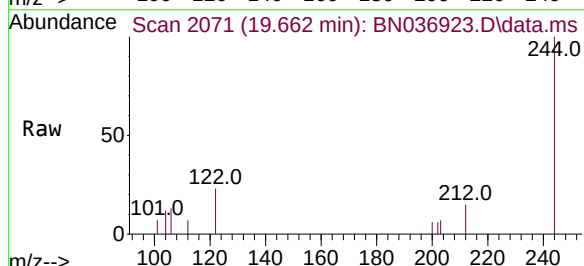
Manual Integrations
APPROVED

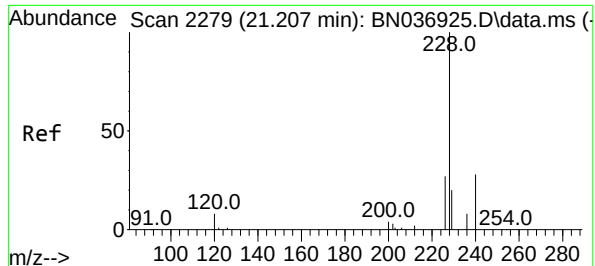
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#31
Terphenyl-d14
Concen: 0.102 ng
RT: 19.662 min Scan# 2071
Delta R.T. -0.005 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

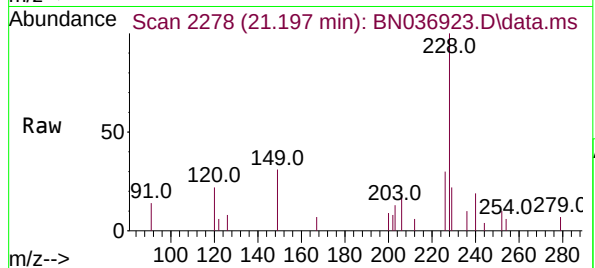
Tgt Ion	Ratio	Lower	Upper
244	100		
212	15.0	9.6	14.4#
122	22.7	12.7	19.1#





#32
Benzo(a)anthracene
Concen: 0.096 ng
RT: 21.197 min Scan# 2119
Delta R.T. -0.009 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

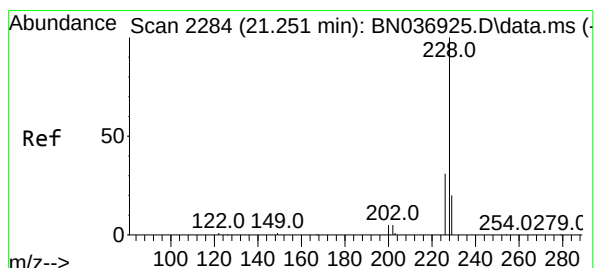
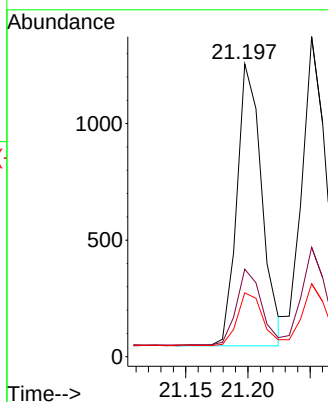
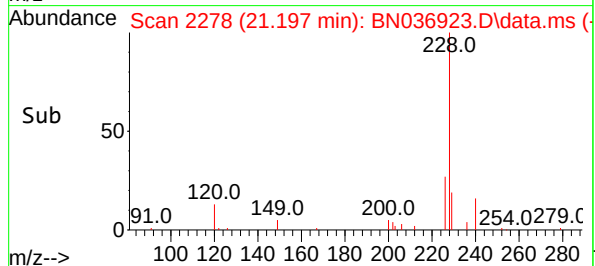
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:228 Resp: 1689
Ion Ratio Lower Upper
228 100
226 29.9 22.2 33.4
229 21.8 16.4 24.6

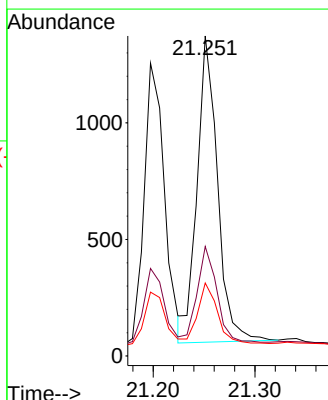
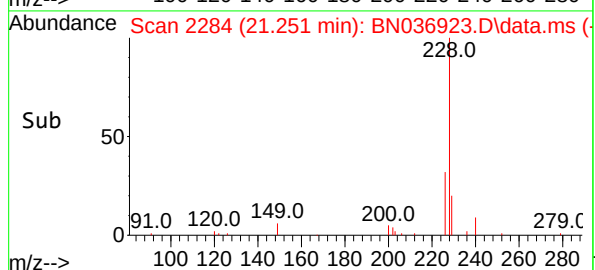
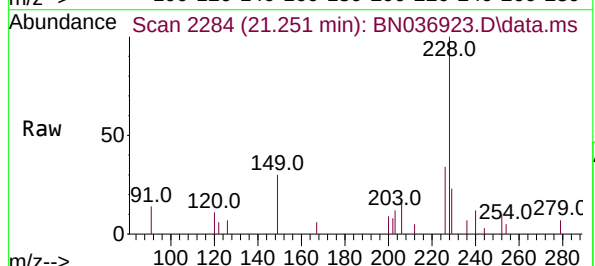
Manual Integrations
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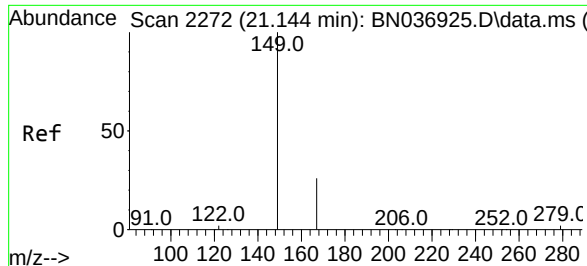
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#33
Chrysene
Concen: 0.095 ng
RT: 21.251 min Scan# 2284
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

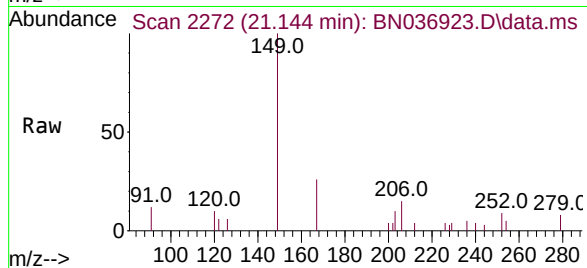
Tgt Ion:228 Resp: 1824
Ion Ratio Lower Upper
228 100
226 34.2 25.5 38.3
229 22.8 16.5 24.7





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.114 ng
RT: 21.144 min Scan# 2114
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

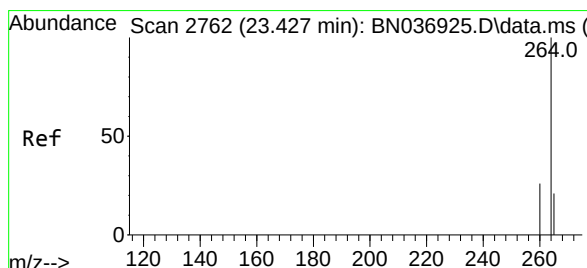
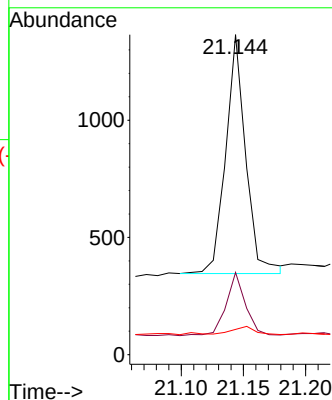
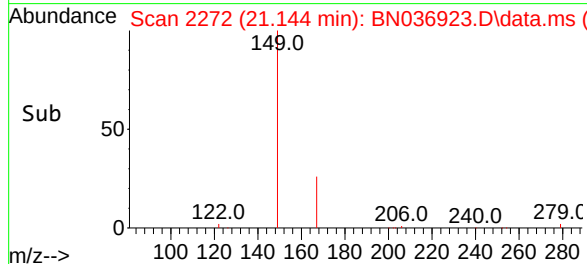
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:149 Resp: 114
Ion Ratio Lower Upper
149 100
167 25.9 21.0 31.6
279 3.7 2.7 4.1

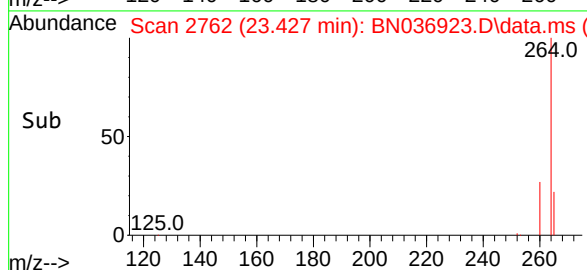
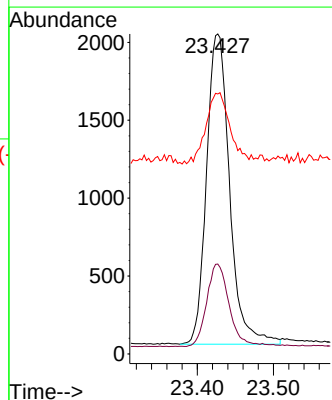
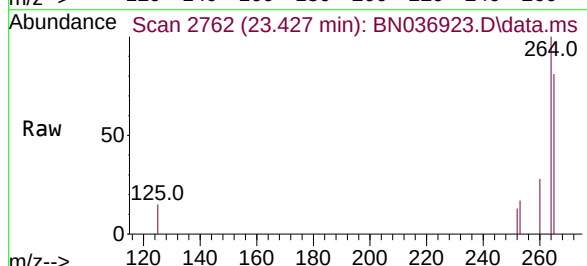
Manual Integrations
APPROVED

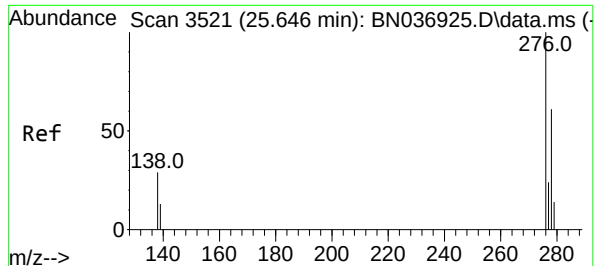
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.427 min Scan# 2762
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

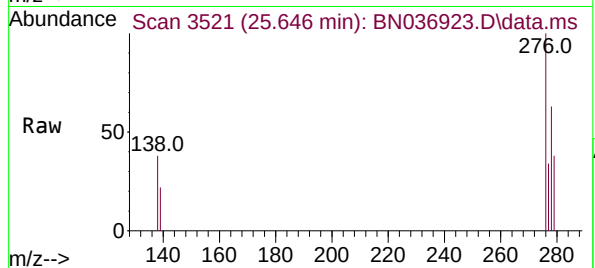
Tgt Ion:264 Resp: 4185
Ion Ratio Lower Upper
264 100
260 28.1 22.2 33.2
265 81.3 65.8 98.6





#36
Indeno(1,2,3-cd)pyrene
Concen: 0.097 ng
RT: 25.646 min Scan# 3521
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

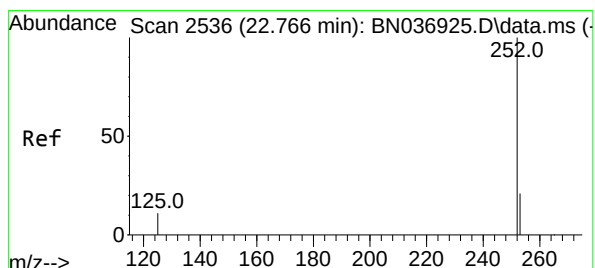
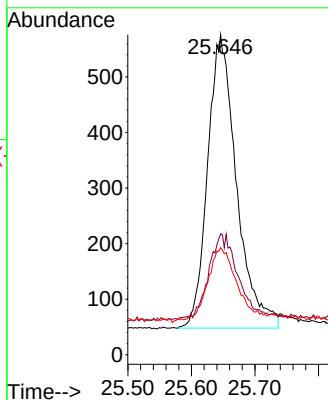
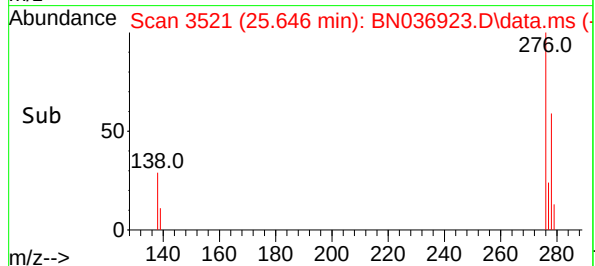
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:276 Resp: 1669
Ion Ratio Lower Upper
276 100
138 29.5 23.0 34.6
277 24.7 20.0 30.0

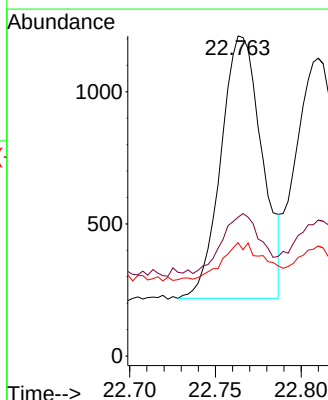
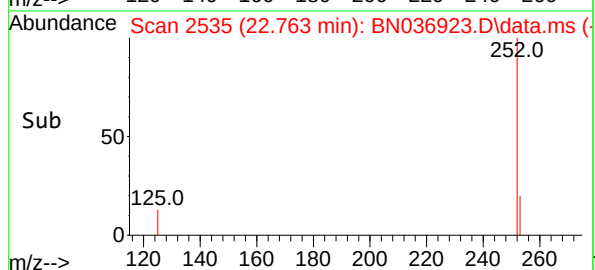
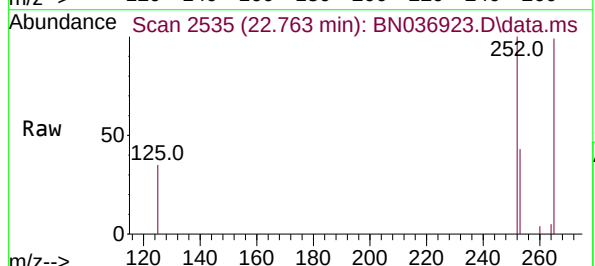
Manual Integrations
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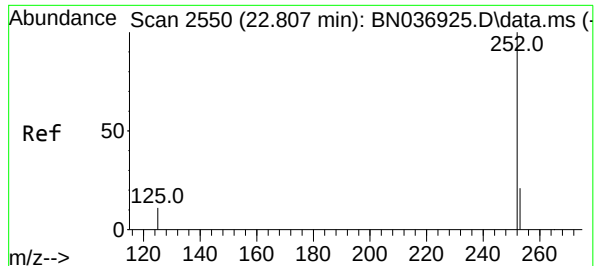
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#37
Benzo(b)fluoranthene
Concen: 0.095 ng
RT: 22.763 min Scan# 2535
Delta R.T. -0.003 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

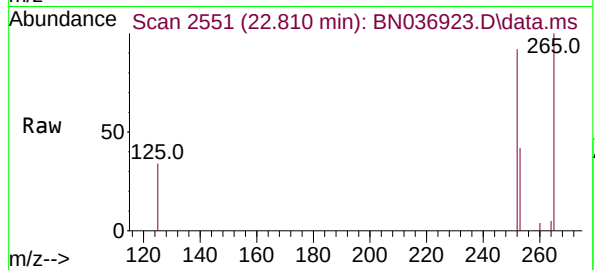
Tgt Ion:252 Resp: 1653
Ion Ratio Lower Upper
252 100
253 43.4 22.1 33.1#
125 35.4 14.2 21.2#





#38
Benzo(k)fluoranthene
Concen: 0.096 ng
RT: 22.810 min Scan# 2551
Delta R.T. 0.003 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

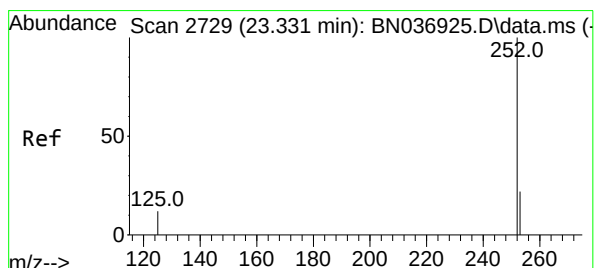
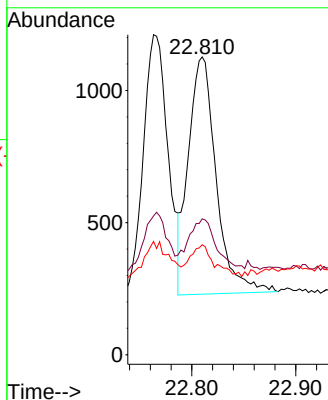
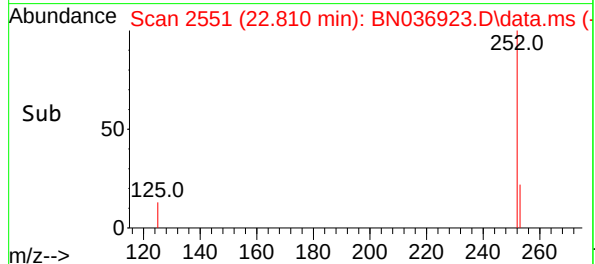
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:252 Resp: 1679
Ion Ratio Lower Upper
252 100
253 45.6 22.8 34.2
125 36.9 14.2 21.2

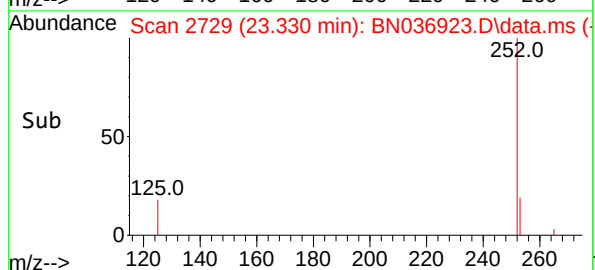
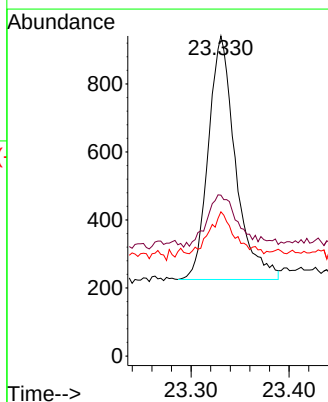
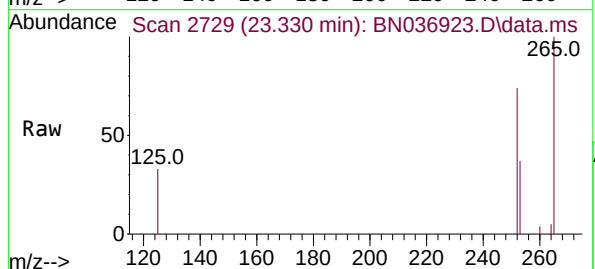
Manual Integrations
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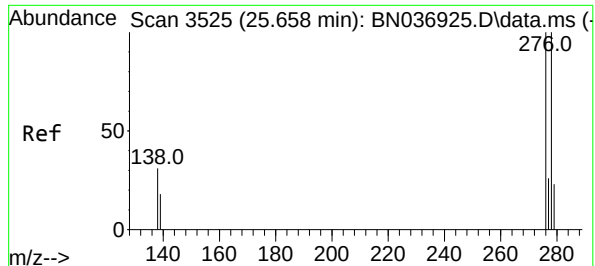
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#39
Benzo(a)pyrene
Concen: 0.096 ng
RT: 23.330 min Scan# 2729
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

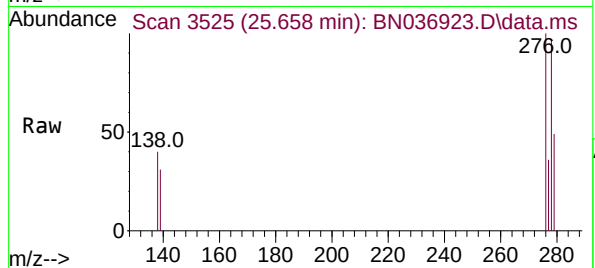
Tgt Ion:252 Resp: 1376
Ion Ratio Lower Upper
252 100
253 50.3 25.9 38.9#
125 45.1 17.4 26.0#





#40
Dibenzo(a,h)anthracene
Concen: 0.095 ng
RT: 25.658 min Scan# 3128
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

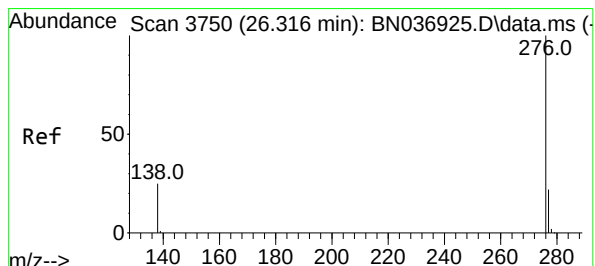
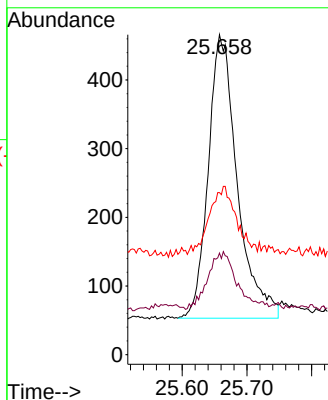
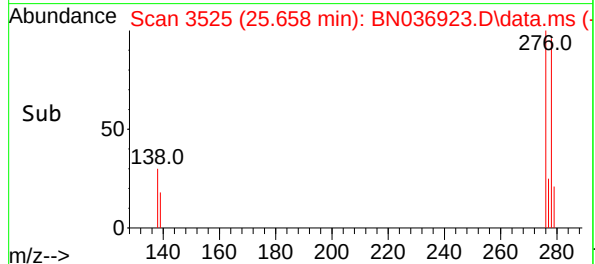
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:278 Resp: 1280
Ion Ratio Lower Upper
278 100
139 31.8 17.4 26.2#
279 50.6 24.9 37.3#

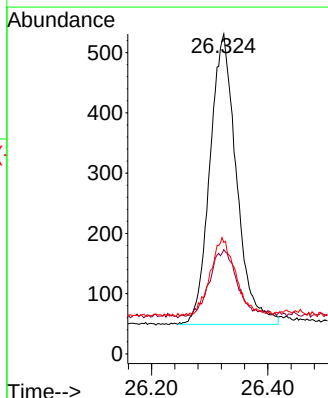
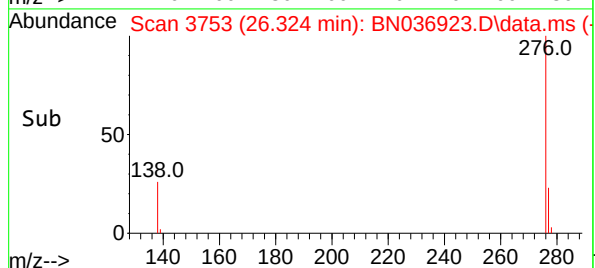
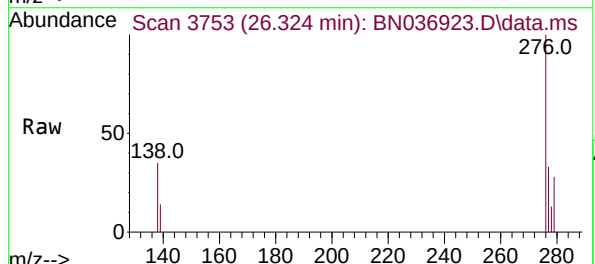
Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#41
Benzo(g,h,i)perylene
Concen: 0.101 ng
RT: 26.324 min Scan# 3753
Delta R.T. 0.009 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:276 Resp: 1527
Ion Ratio Lower Upper
276 100
277 32.6 20.2 30.2#
138 34.8 21.9 32.9#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036924.D
 Acq On : 28 Apr 2025 12:11
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 04/29/2025
 Supervised By :Jagrut Upadhyay 04/29/2025

Quant Time: Apr 28 15:12:22 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:11:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2482	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	6094	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3232	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	6237	0.400	ng	0.00
29) Chrysene-d12	21.216	240	4535	0.400	ng	0.00
35) Perylene-d12	23.430	264	4026	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.221	112	1310	0.205	ng	0.00
5) Phenol-d6	6.802	99	1535	0.197	ng	0.00
8) Nitrobenzene-d5	8.781	82	1223	0.193	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	1620	0.192	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	279	0.197	ng	0.00
15) 2-Fluorobiphenyl	12.899	172	3191	0.204	ng	0.00
27) Fluoranthene-d10	19.059	212	3130	0.196	ng	0.00
31) Terphenyl-d14	19.667	244	2136	0.198	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.155	88	607m	0.194	ng	
3) n-Nitrosodimethylamine	3.473	42	1238	0.204	ng	# 99
6) bis(2-Chloroethyl)ether	7.062	93	1394	0.192	ng	98
9) Naphthalene	10.458	128	3495	0.197	ng	97
10) Hexachlorobutadiene	10.757	225	763	0.197	ng	# 98
12) 2-Methylnaphthalene	12.082	142	2173	0.191	ng	100
16) Acenaphthylene	13.989	152	2990	0.191	ng	100
17) Acenaphthene	14.341	154	2053	0.198	ng	99
18) Fluorene	15.325	166	2605	0.193	ng	99
20) 4,6-Dinitro-2-methylph...	15.411	198	258	0.165	ng	# 57
21) 4-Bromophenyl-phenylether	16.227	248	819	0.197	ng	99
22) Hexachlorobenzene	16.338	284	900	0.196	ng	99
23) Atrazine	16.500	200	618	0.189	ng	98
24) Pentachlorophenol	16.686	266	425	0.178	ng	98
25) Phenanthrene	17.058	178	3972	0.194	ng	100
26) Anthracene	17.158	178	3454	0.188	ng	100
28) Fluoranthene	19.091	202	4305	0.189	ng	99
30) Pyrene	19.454	202	4403	0.200	ng	100
32) Benzo(a)anthracene	21.198	228	3191	0.193	ng	97
33) Chrysene	21.251	228	3574	0.197	ng	99
34) Bis(2-ethylhexyl)phtha...	21.144	149	1921	0.203	ng	98
36) Indeno(1,2,3-cd)pyrene	25.643	276	3163	0.192	ng	99
37) Benzo(b)fluoranthene	22.766	252	3124	0.187	ng	# 88
38) Benzo(k)fluoranthene	22.810	252	3158	0.187	ng	# 87
39) Benzo(a)pyrene	23.328	252	2619	0.190	ng	# 84
40) Dibenzo(a,h)anthracene	25.661	278	2498	0.193	ng	# 88
41) Benzo(g,h,i)perylene	26.327	276	2828	0.195	ng	96

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

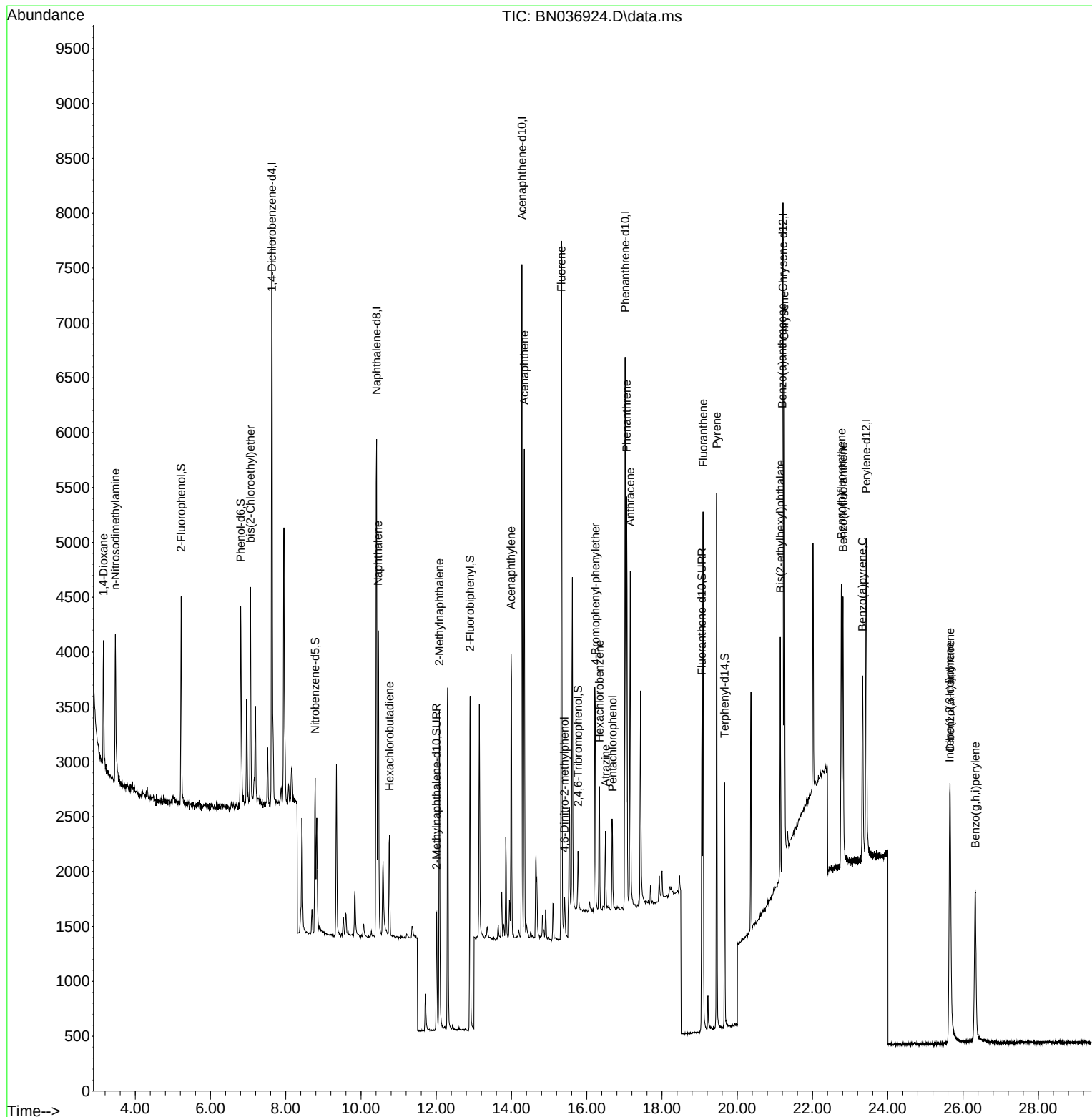
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 Data File : BN036924.D
 Acq On : 28 Apr 2025 12:11
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

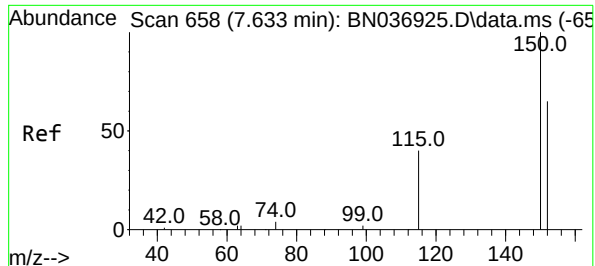
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 04/29/2025
 Supervised By :Jagrut Upadhyay 04/29/2025

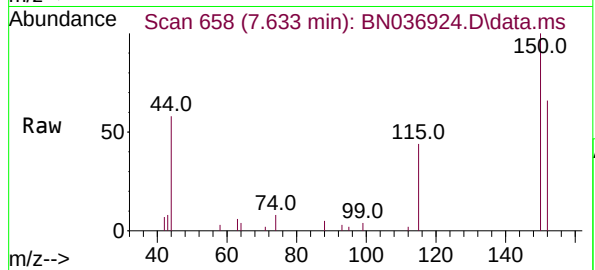
Quant Time: Apr 28 15:12:22 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:11:09 2025
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

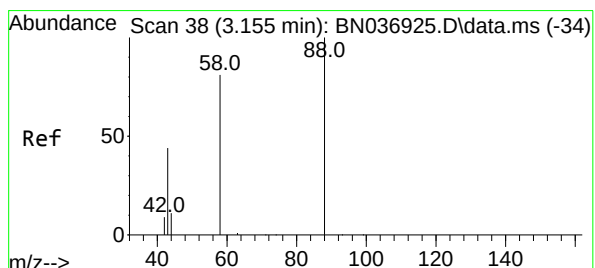
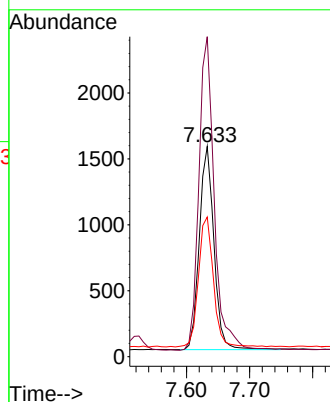
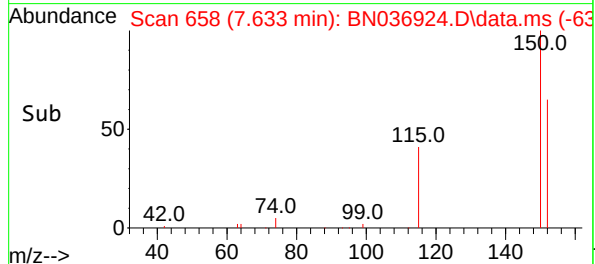
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 152 Resp: 248
Ion Ratio Lower Upper
152 100
150 152.3 121.1 181.7
115 66.4 51.8 77.6

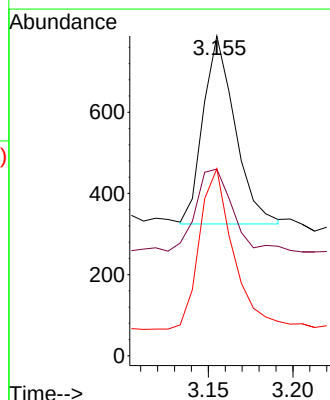
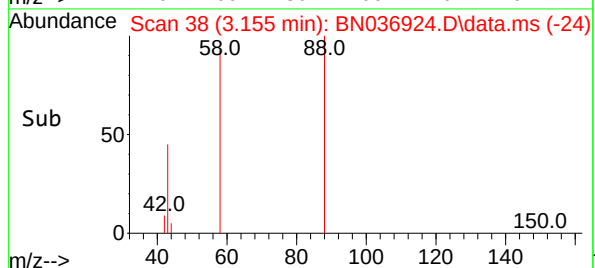
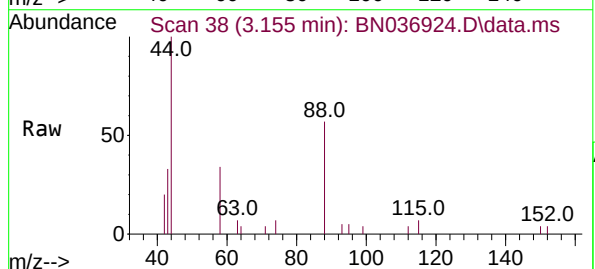
Manual Integrations
APPROVED

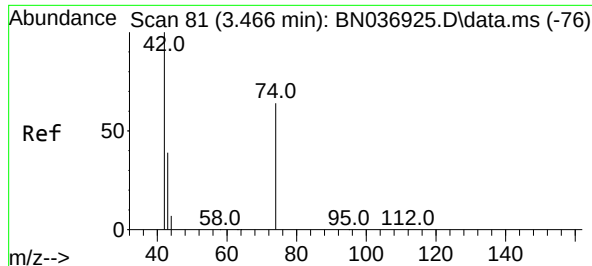
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#2
1,4-Dioxane
Concen: 0.194 ng m
RT: 3.155 min Scan# 38
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

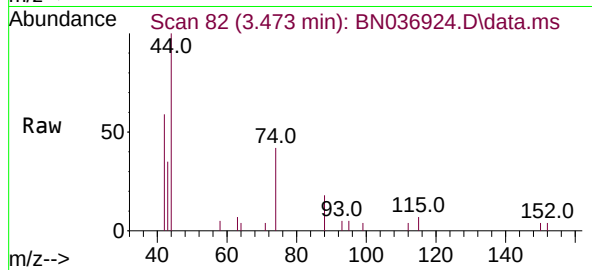
Tgt Ion: 88 Resp: 607
Ion Ratio Lower Upper
88 100
43 66.4 37.9 56.9#
58 94.4 65.8 98.6





#3
n-Nitrosodimethylamine
Concen: 0.204 ng
RT: 3.473 min Scan# 81
Delta R.T. 0.007 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

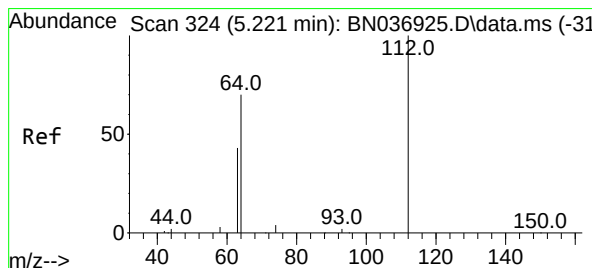
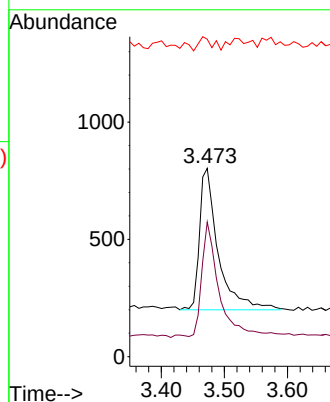
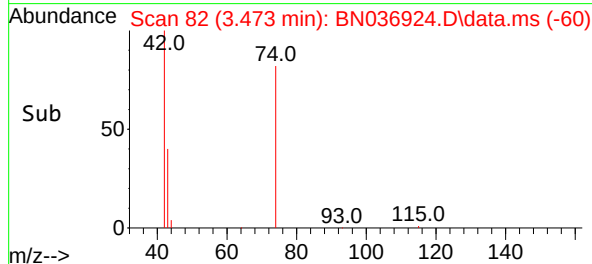
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 42 Resp: 1238
Ion Ratio Lower Upper
42 100
74 74.2 59.9 89.9
44 7.1 7.5 11.3

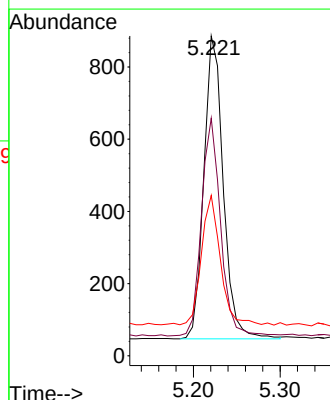
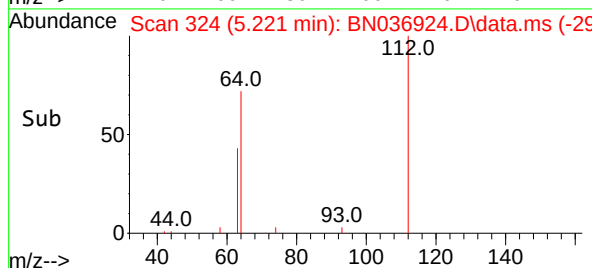
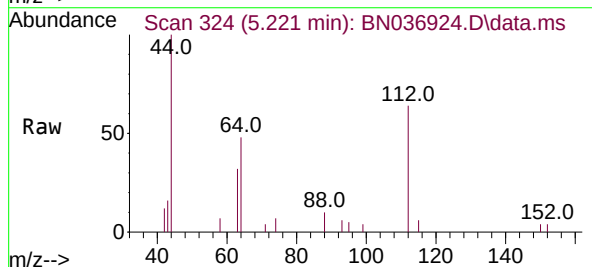
Manual Integrations
APPROVED

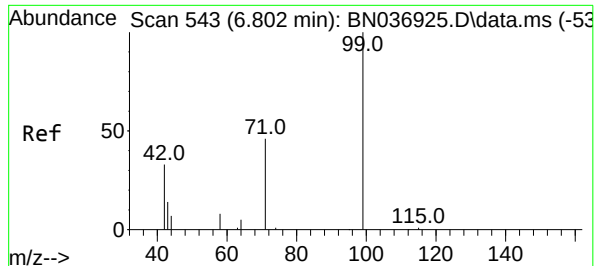
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#4
2-Fluorophenol
Concen: 0.205 ng
RT: 5.221 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

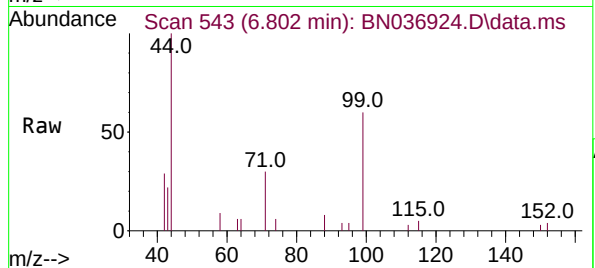
Tgt Ion:112 Resp: 1310
Ion Ratio Lower Upper
112 100
64 70.8 55.7 83.5
63 42.5 33.9 50.9





#5
Phenol-d6
Concen: 0.197 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

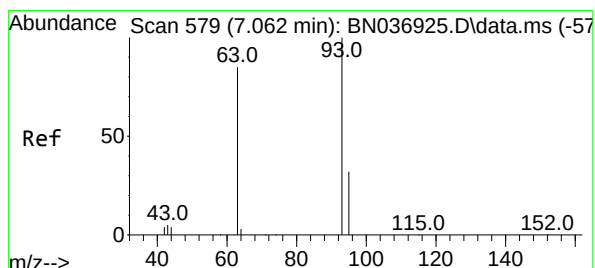
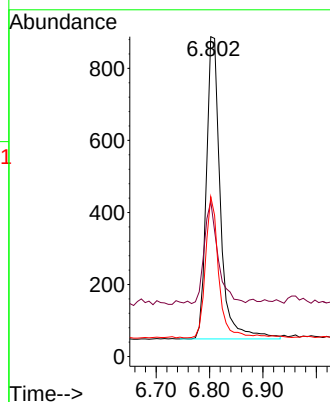
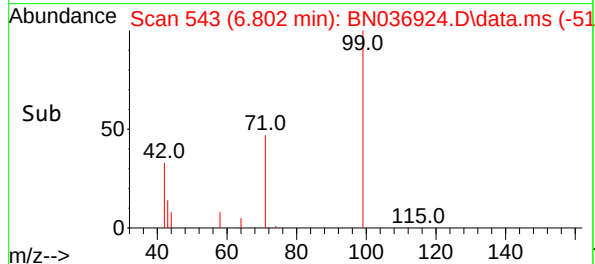
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 99 Resp: 1538
Ion Ratio Lower Upper
99 100
42 33.2 29.6 44.4
71 43.6 36.0 54.0

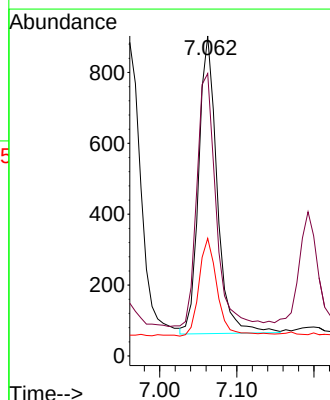
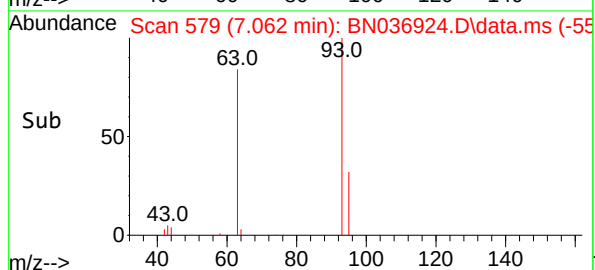
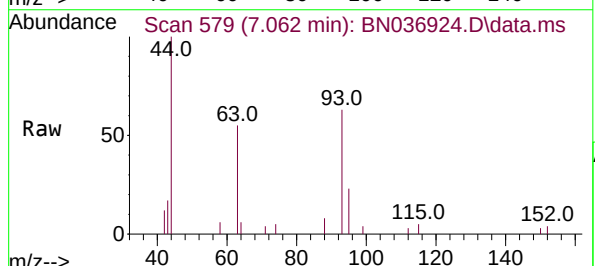
Manual Integrations
APPROVED

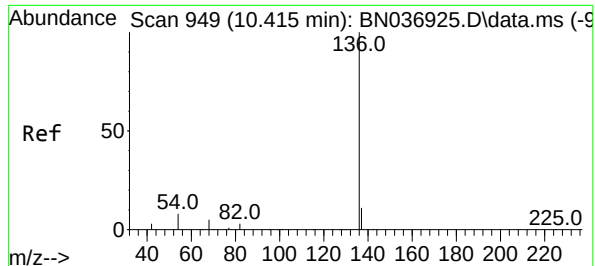
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.192 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

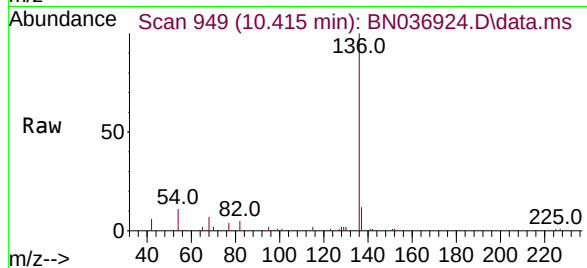
Tgt Ion: 93 Resp: 1394
Ion Ratio Lower Upper
93 100
63 88.4 69.0 103.6
95 33.1 25.4 38.0





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

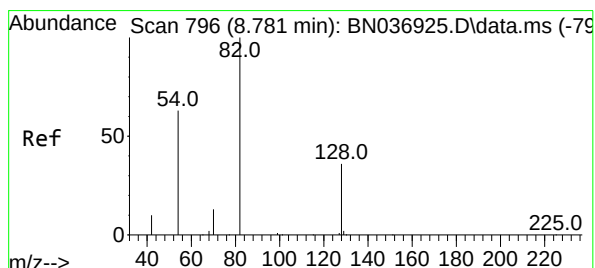
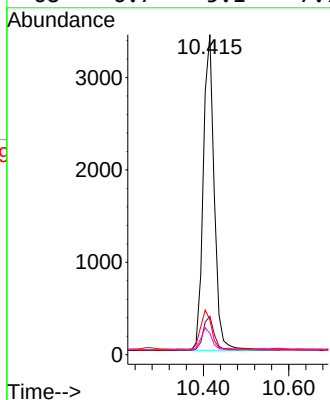
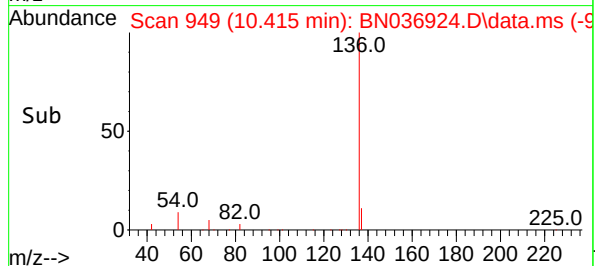
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:136 Resp: 6094
Ion Ratio Lower Upper
136 100
137 12.0 9.7 14.5
54 10.8 8.0 12.0
68 6.7 5.1 7.7

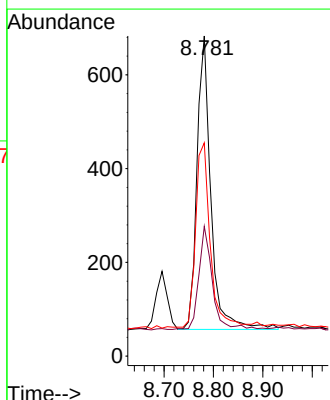
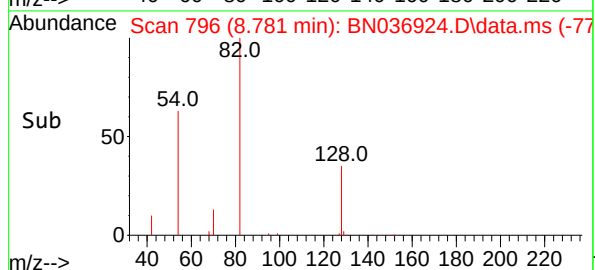
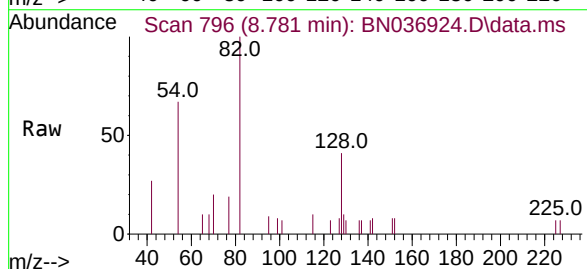
Manual Integrations
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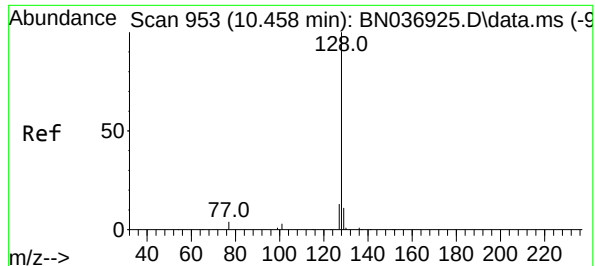
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#8
Nitrobenzene-d5
Concen: 0.193 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion: 82 Resp: 1223
Ion Ratio Lower Upper
82 100
128 40.6 30.7 46.1
54 66.6 52.1 78.1





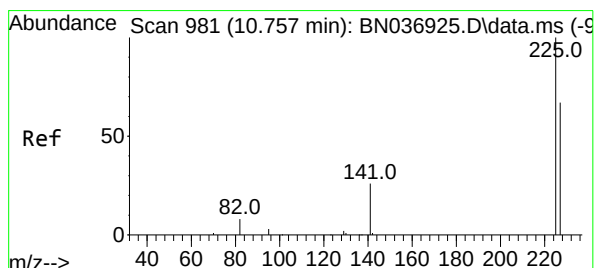
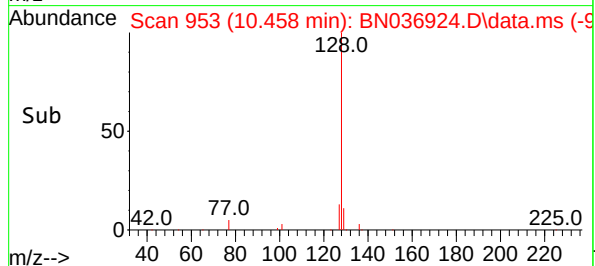
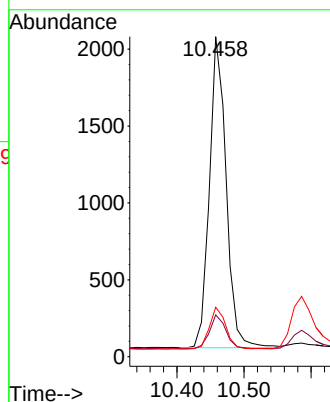
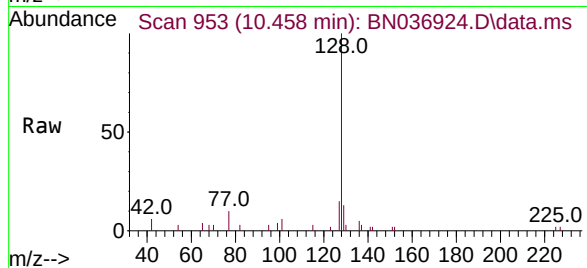
#9
Naphthalene
Concen: 0.197 ng
RT: 10.458 min Scan# 953
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 349
Ion Ratio Lower Upper
128 100
129 13.1 9.8 14.6
127 15.5 11.4 17.2

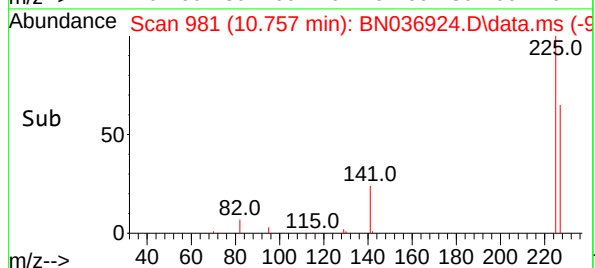
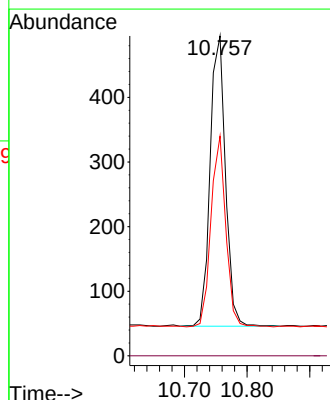
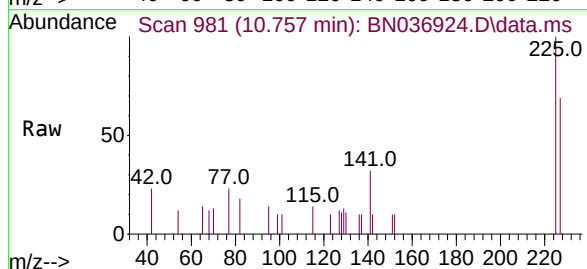
Manual Integrations
APPROVED

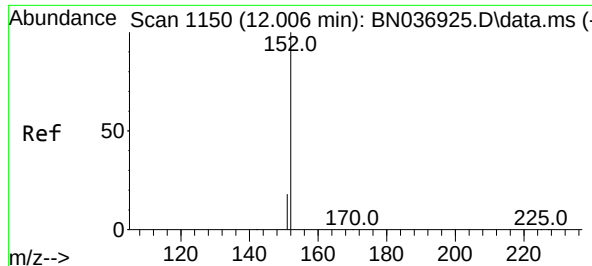
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#10
Hexachlorobutadiene
Concen: 0.197 ng
RT: 10.757 min Scan# 981
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

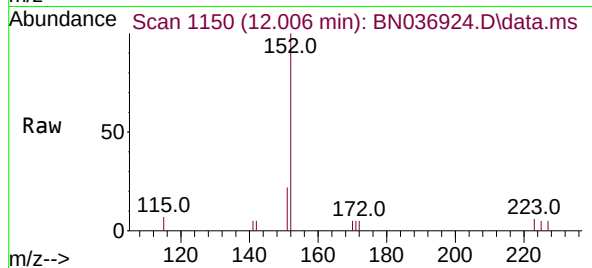
Tgt Ion:225 Resp: 763
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 52.2 78.4





#11
2-Methylnaphthalene-d10
Concen: 0.192 ng
RT: 12.006 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

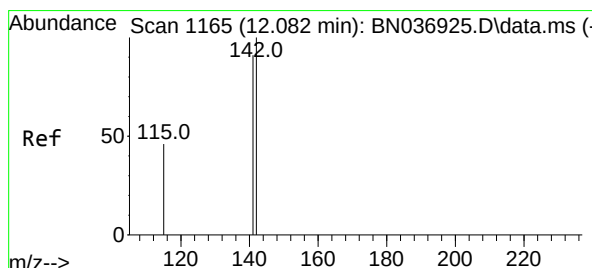
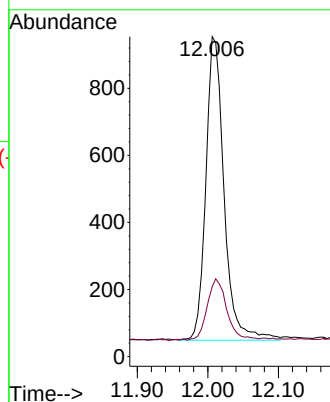
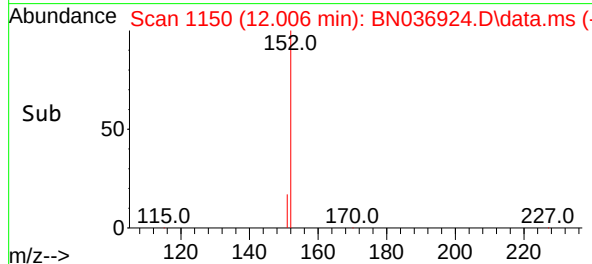
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:152 Resp: 1620
Ion Ratio Lower Upper
152 100
151 21.7 16.9 25.3

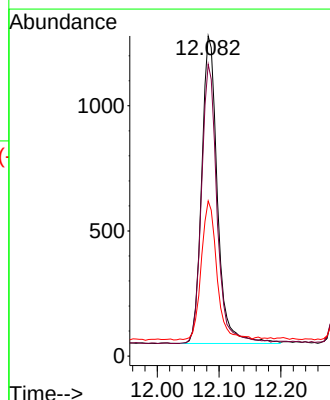
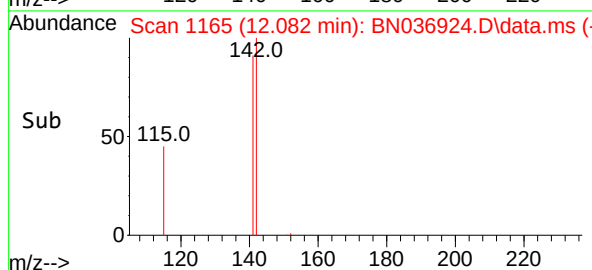
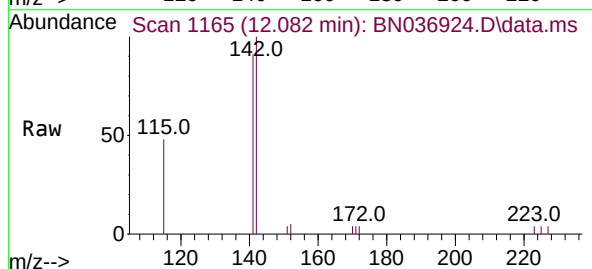
Manual Integrations
APPROVED

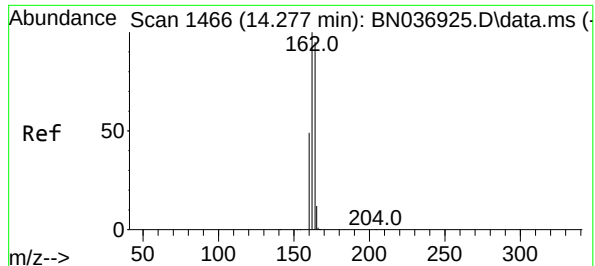
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#12
2-Methylnaphthalene
Concen: 0.191 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

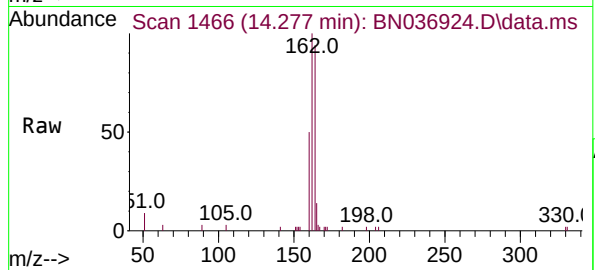
Tgt Ion:142 Resp: 2173
Ion Ratio Lower Upper
142 100
141 91.2 72.8 109.2
115 48.5 38.2 57.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

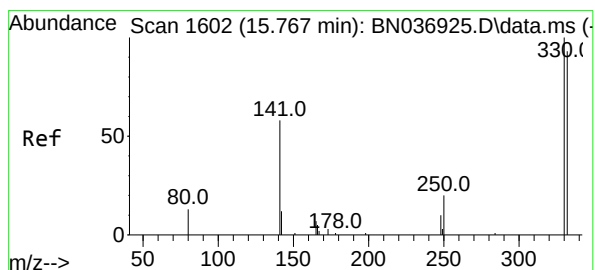
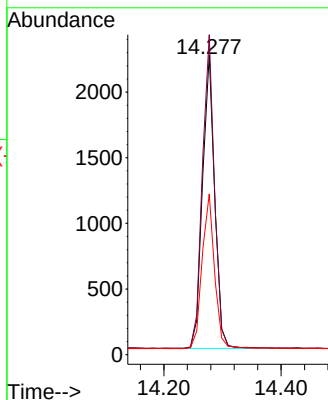
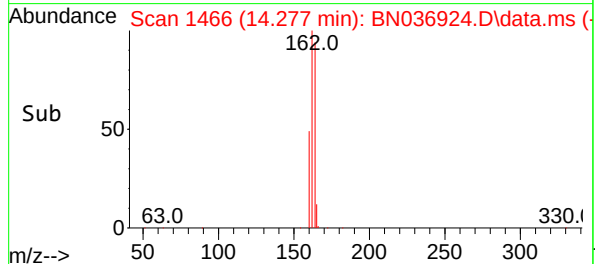
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



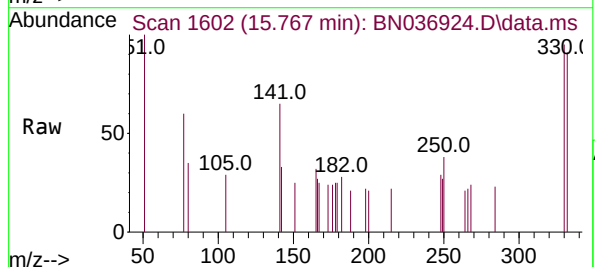
Tgt Ion:164 Resp: 323
Ion Ratio Lower Upper
164 100
162 106.7 83.8 125.8
160 53.6 42.0 63.0

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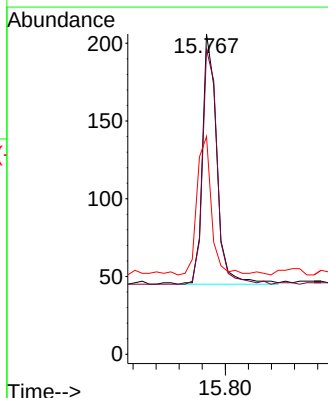
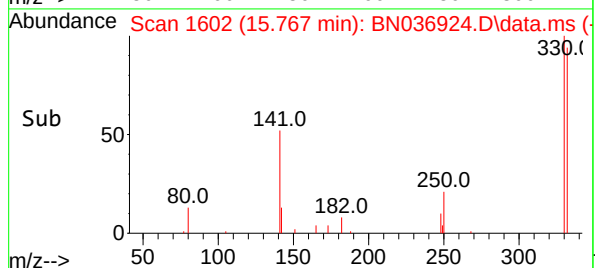
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025

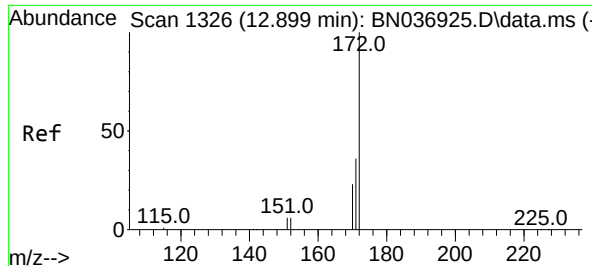


#14
2,4,6-Tribromophenol
Concen: 0.197 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11



Tgt Ion:330 Resp: 279
Ion Ratio Lower Upper
330 100
332 95.7 76.3 114.5
141 55.9 45.4 68.2





#15

2-Fluorobiphenyl

Concen: 0.204 ng

RT: 12.899 min Scan# 1439

Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

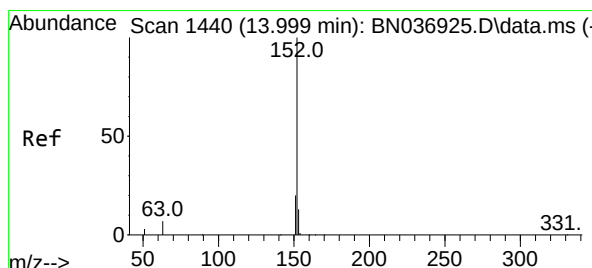
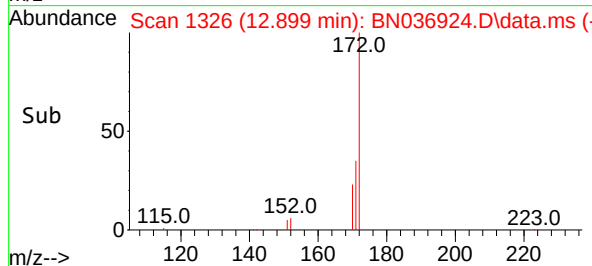
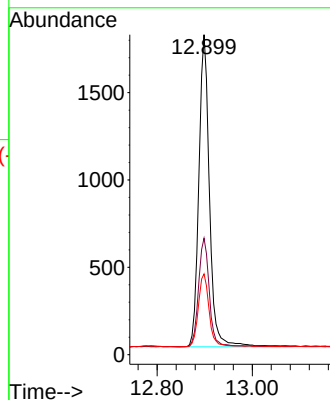
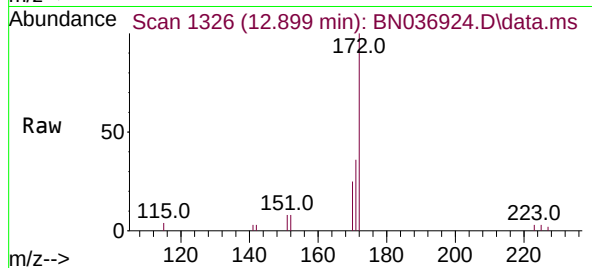
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.4	44.0
170	25.3	19.4	29.0

Manual Integrations

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Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#16

Acenaphthylene

Concen: 0.191 ng

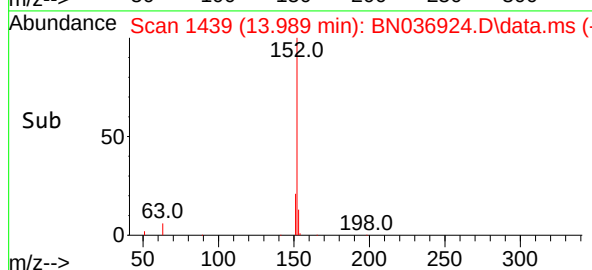
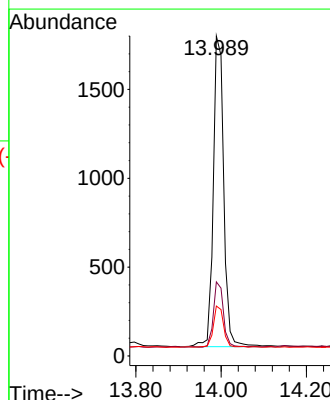
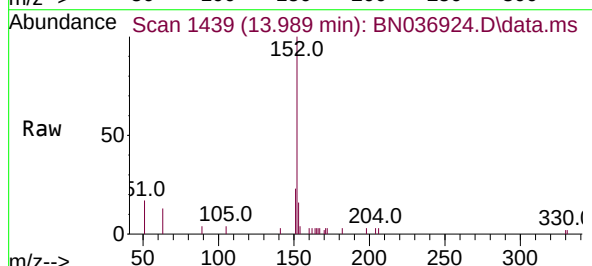
RT: 13.989 min Scan# 1439

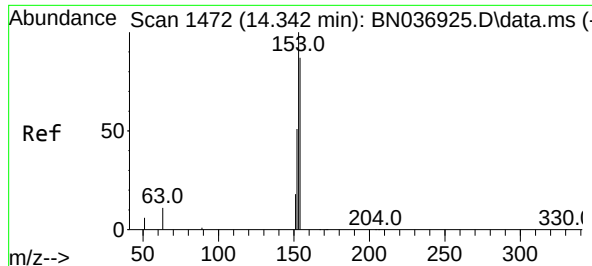
Delta R.T. -0.011 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

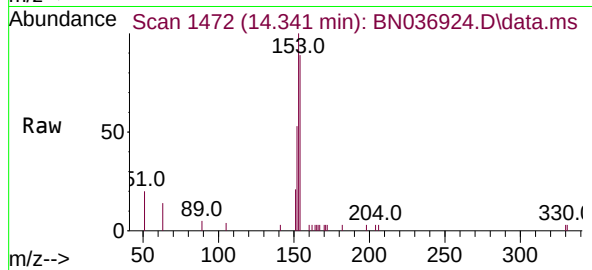
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.0	24.0
153	12.8	10.2	15.2





#17
Acenaphthene
Concen: 0.198 ng
RT: 14.341 min Scan# 1472
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

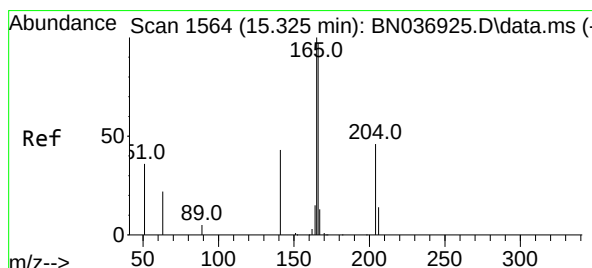
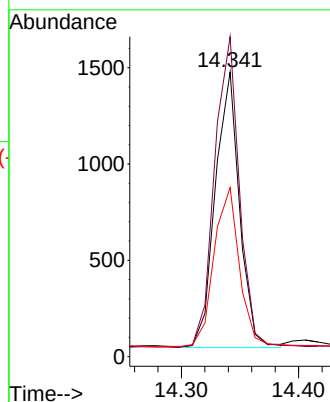
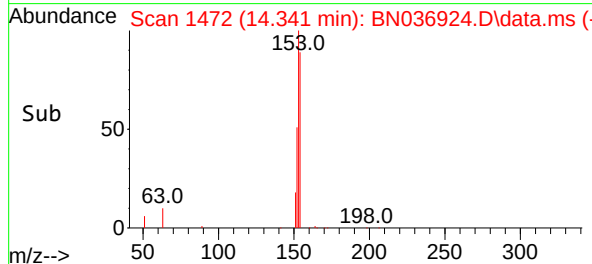
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:154 Resp: 205
Ion Ratio Lower Upper
154 100
153 115.1 93.4 140.2
152 60.9 49.5 74.3

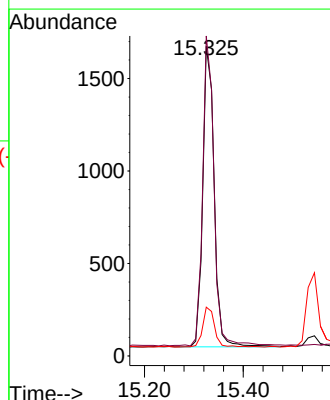
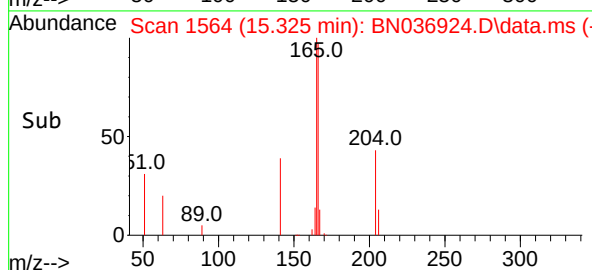
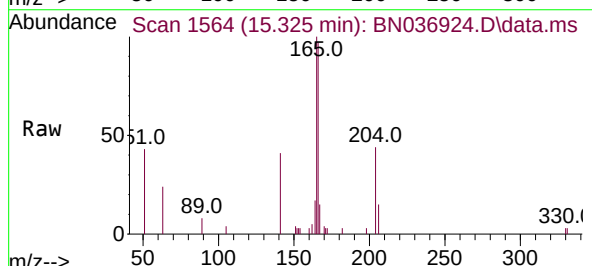
Manual Integrations
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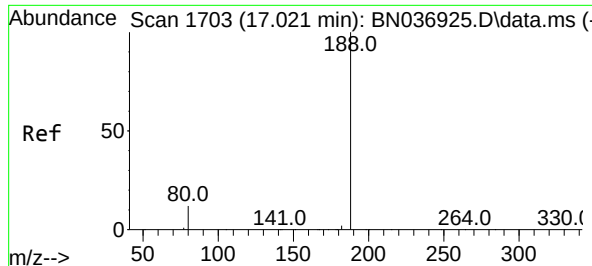
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#18
Fluorene
Concen: 0.193 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:166 Resp: 2605
Ion Ratio Lower Upper
166 100
165 101.9 80.8 121.2
167 14.0 10.8 16.2





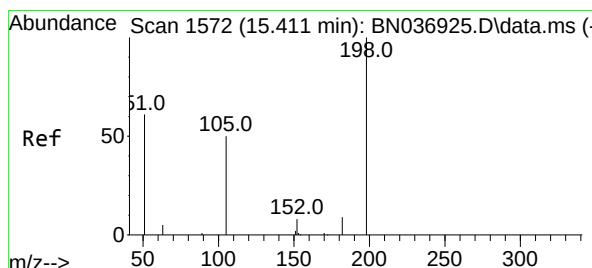
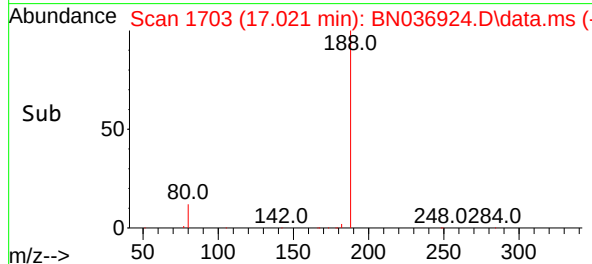
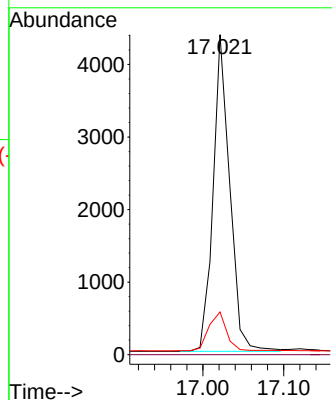
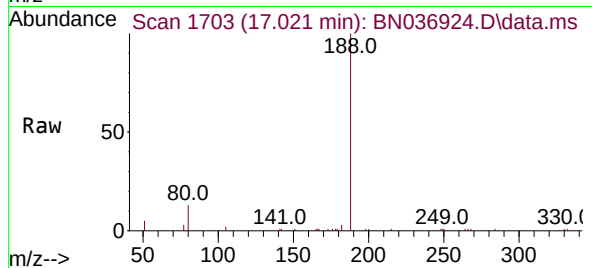
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 623
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.4 10.7 16.1

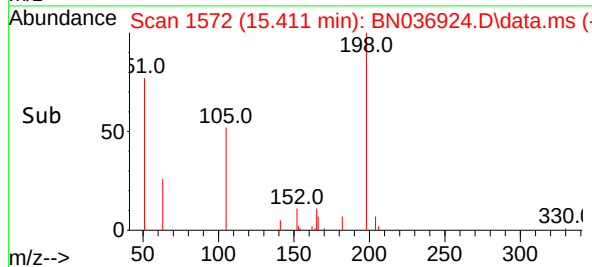
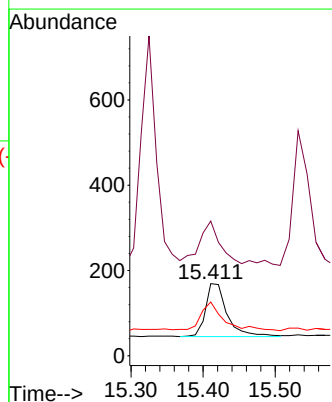
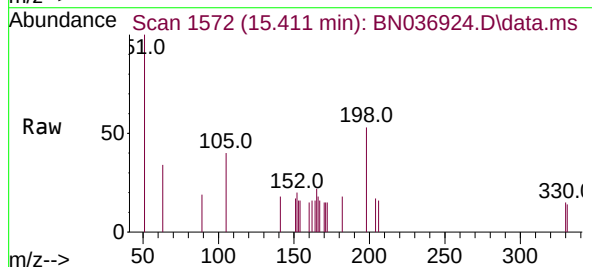
Manual Integrations
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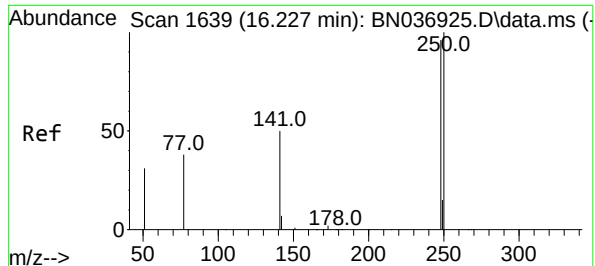
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#20
4,6-Dinitro-2-methylphenol
Concen: 0.165 ng
RT: 15.411 min Scan# 1572
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:198 Resp: 258
Ion Ratio Lower Upper
198 100
51 187.0 97.9 146.9#
105 74.6 50.0 75.0





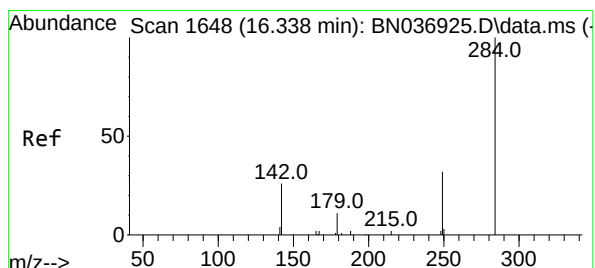
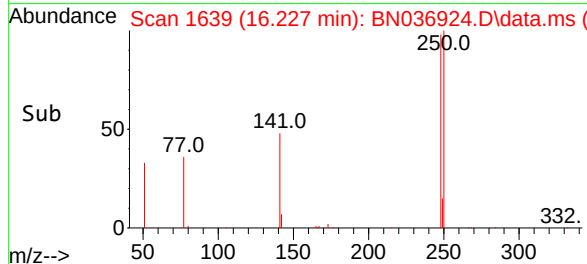
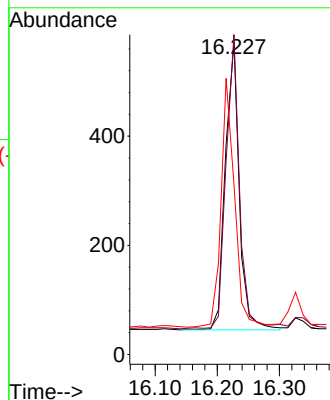
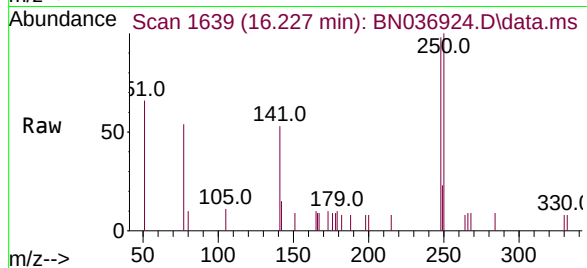
#21
4-Bromophenyl-phenylether
Concen: 0.197 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 819
Ion Ratio Lower Upper
248 100
250 102.4 83.7 125.5
141 54.5 43.8 65.8

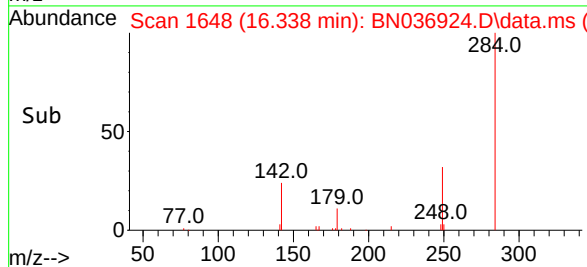
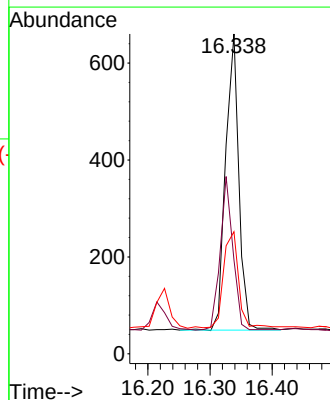
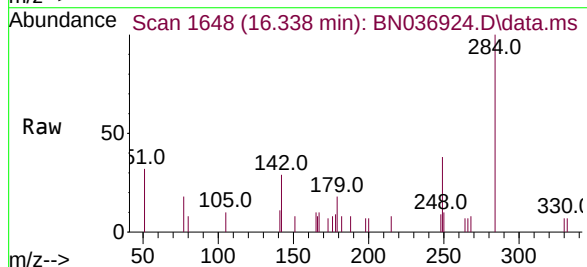
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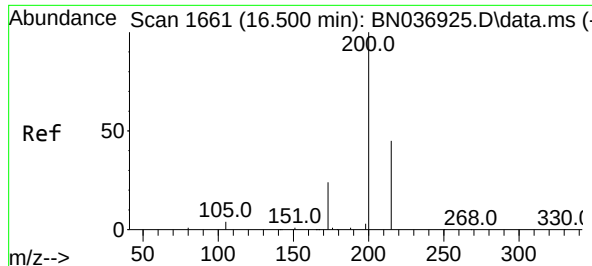
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#22
Hexachlorobenzene
Concen: 0.196 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

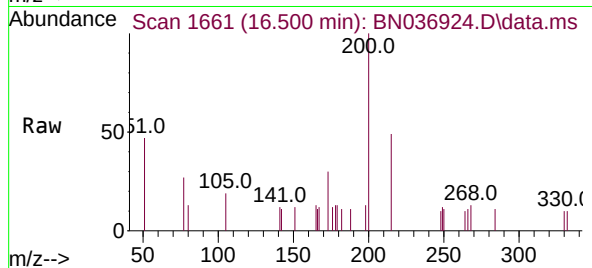
Tgt Ion:284 Resp: 900
Ion Ratio Lower Upper
284 100
142 49.8 40.0 60.0
249 37.0 28.2 42.2





#23
Atrazine
Concen: 0.189 ng
RT: 16.500 min Scan# 1661
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

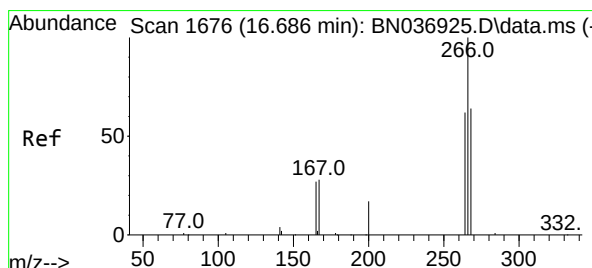
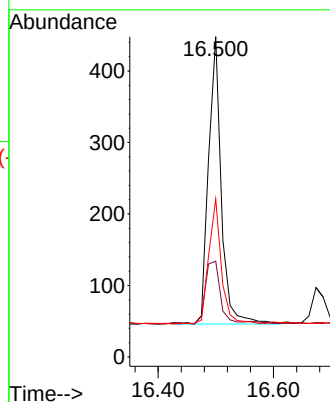
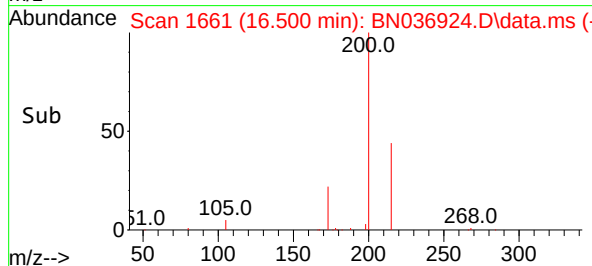
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:200 Resp: 618
Ion Ratio Lower Upper
200 100
173 29.9 22.4 33.6
215 49.3 38.6 57.8

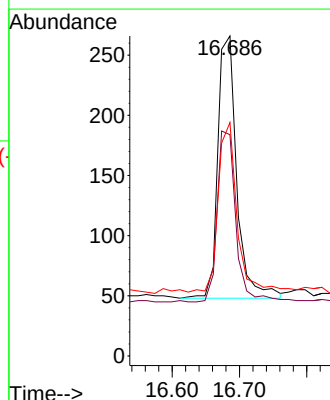
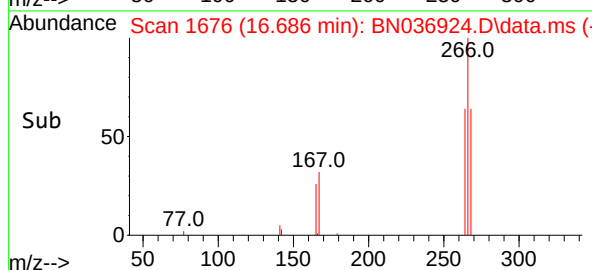
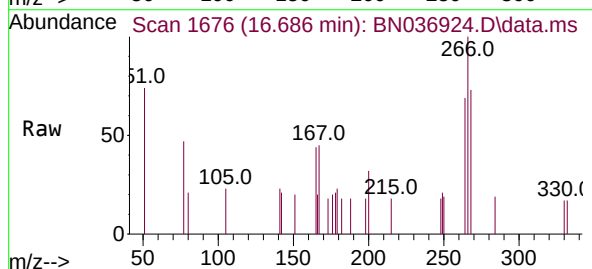
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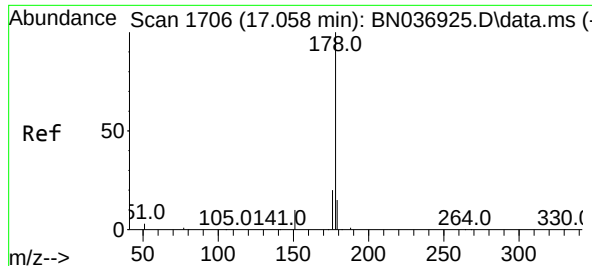
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#24
Pentachlorophenol
Concen: 0.178 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

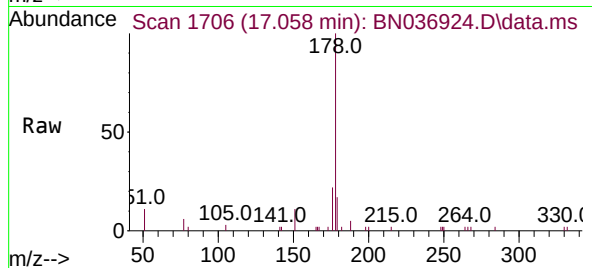
Tgt Ion:266 Resp: 425
Ion Ratio Lower Upper
266 100
264 64.5 49.9 74.9
268 66.8 52.2 78.4





#25
Phenanthrene
Concen: 0.194 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

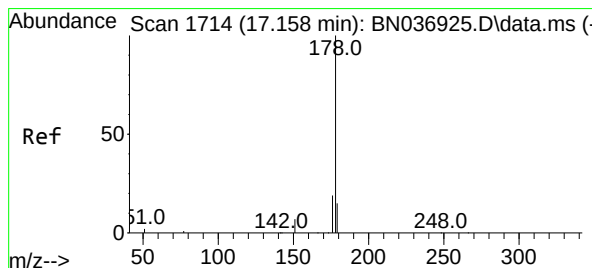
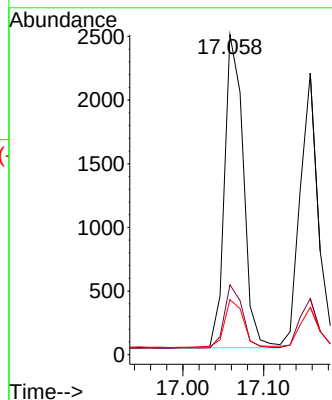
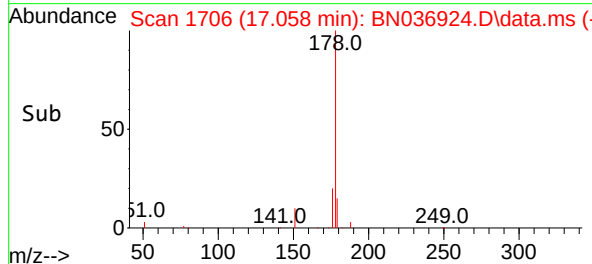
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:178 Resp: 3972
Ion Ratio Lower Upper
178 100
176 19.9 15.7 23.5
179 15.5 12.4 18.6

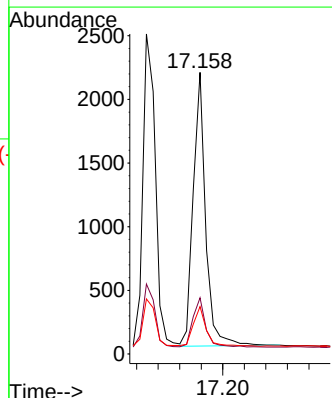
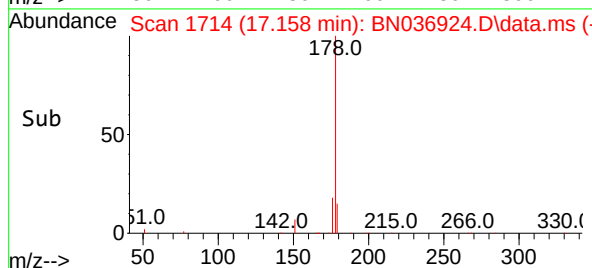
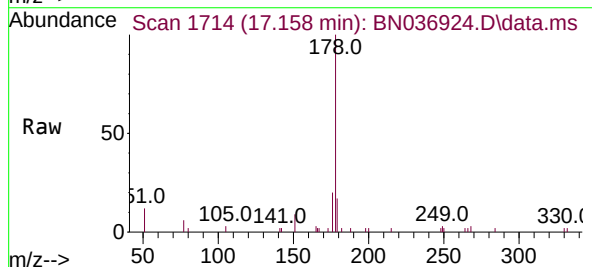
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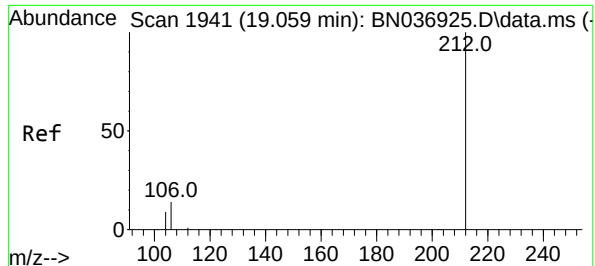
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#26
Anthracene
Concen: 0.188 ng
RT: 17.158 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:178 Resp: 3454
Ion Ratio Lower Upper
178 100
176 18.9 15.3 22.9
179 15.2 12.1 18.1





#27

Fluoranthene-d10

Concen: 0.196 ng

RT: 19.059 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Instrument :

BNA_N

ClientSampleId :

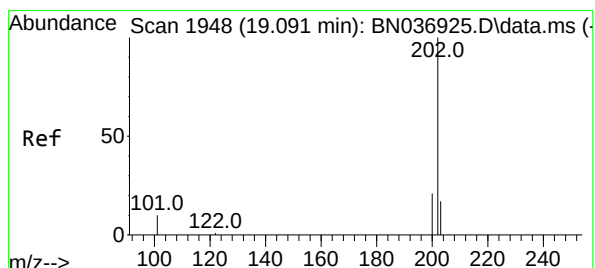
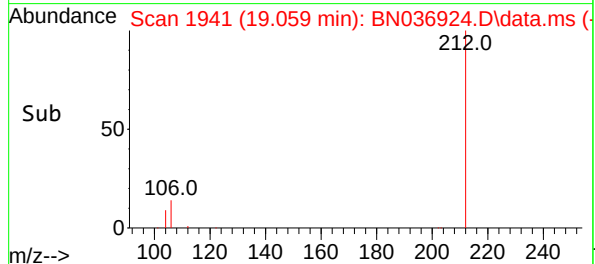
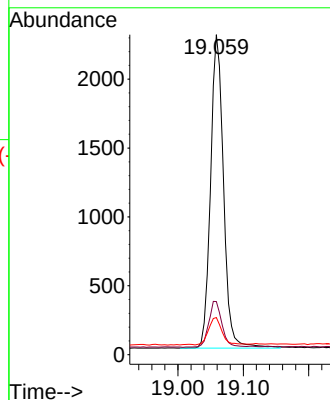
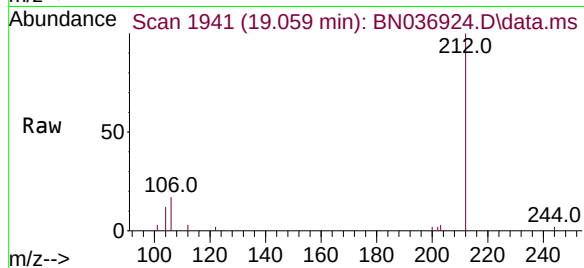
SSTDICC0.2

Tgt Ion:	212	Resp:	3130
Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.6	17.4
104	9.0	7.0	10.4

Manual Integrations

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Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#28

Fluoranthene

Concen: 0.189 ng

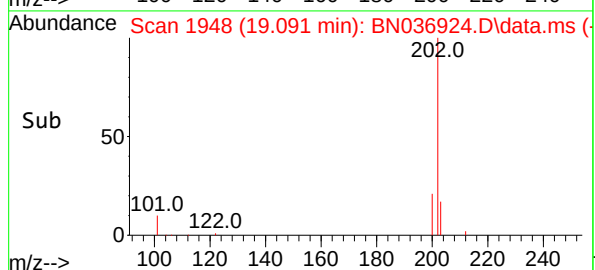
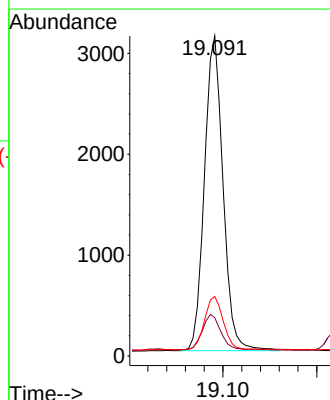
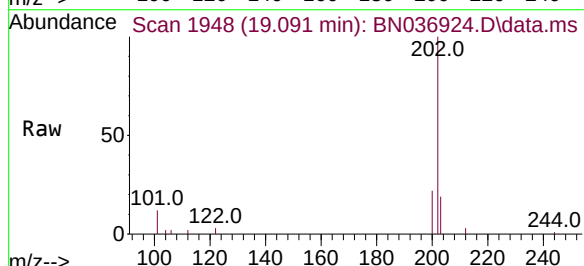
RT: 19.091 min Scan# 1948

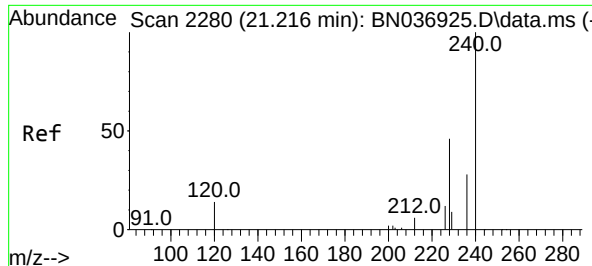
Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Tgt Ion:	202	Resp:	4305
Ion	Ratio	Lower	Upper
202	100		
101	11.2	8.5	12.7
203	17.4	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.216 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:240 Resp: 453

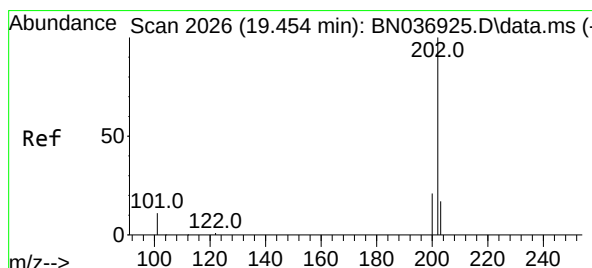
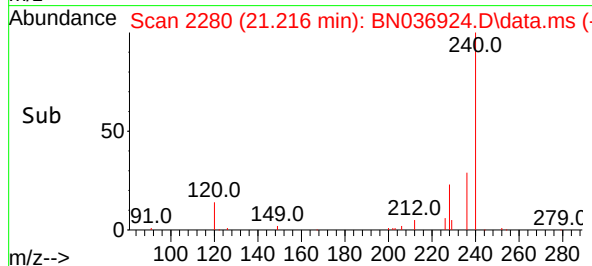
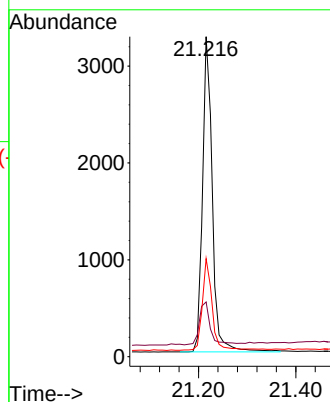
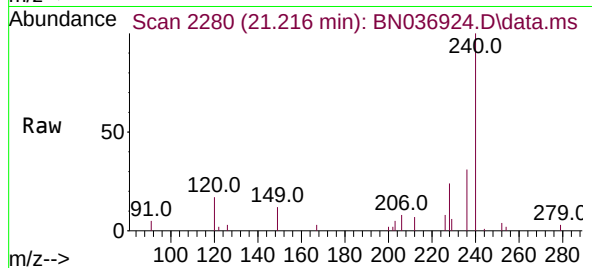
Ion	Ratio	Lower	Upper
240	100		
120	17.1	14.1	21.1
236	30.7	23.8	35.8

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Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#30

Pyrene

Concen: 0.200 ng

RT: 19.454 min Scan# 2026

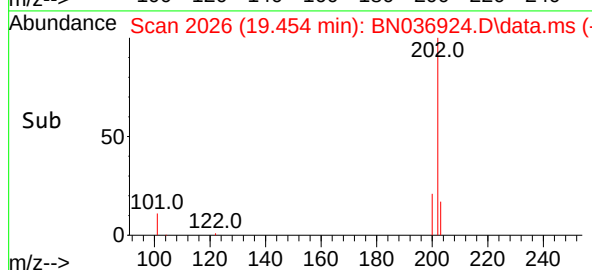
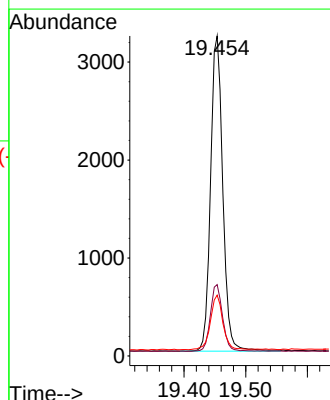
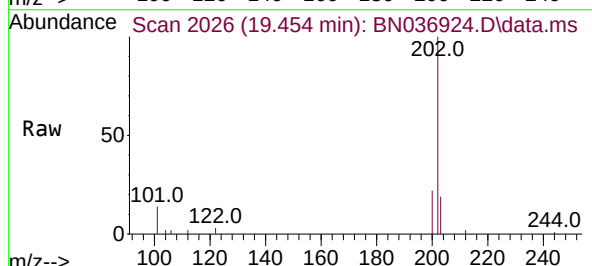
Delta R.T. -0.000 min

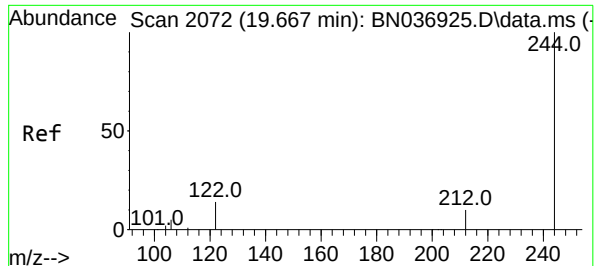
Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Tgt Ion:202 Resp: 4403

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.6
203	17.8	14.0	21.0





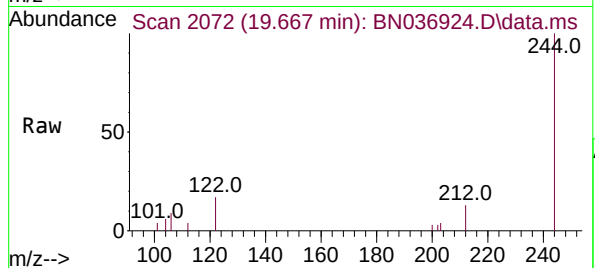
#31
Terphenyl-d14
Concen: 0.198 ng
RT: 19.667 min Scan# 2072
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

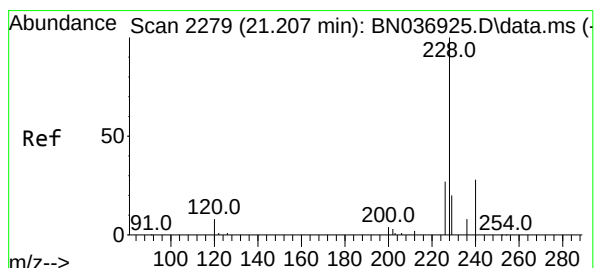
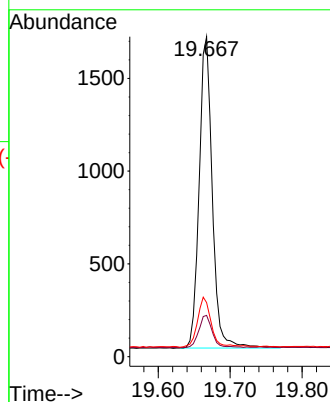
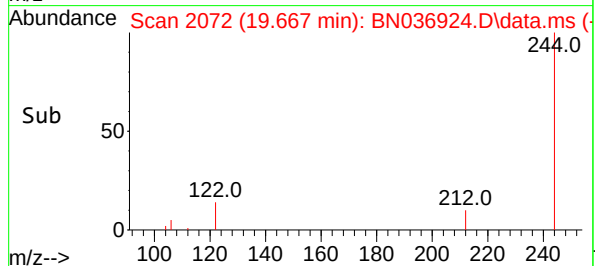


Tgt Ion:244 Resp: 2130
Ion Ratio Lower Upper
244 100
212 12.9 9.6 14.4
122 16.9 12.7 19.1

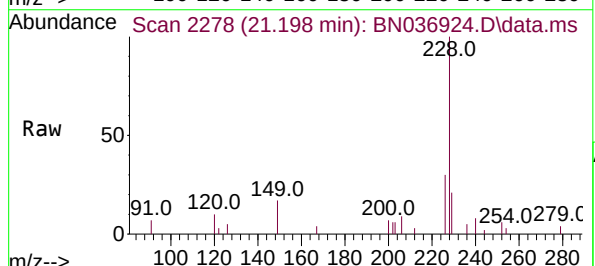
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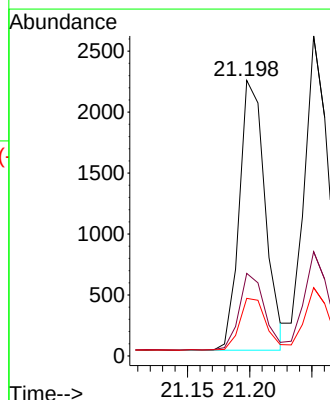
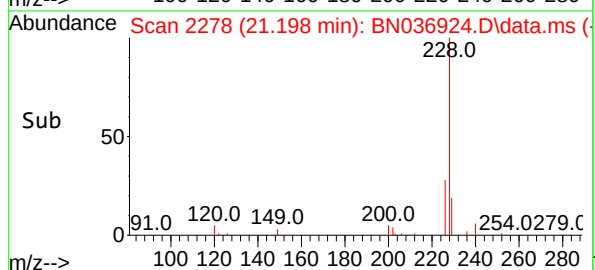
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025

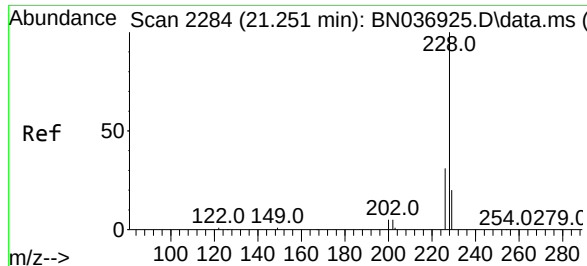


#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 21.198 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11



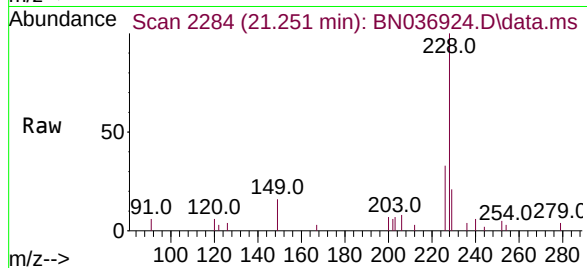
Tgt Ion:228 Resp: 3191
Ion Ratio Lower Upper
228 100
226 30.0 22.2 33.4
229 20.9 16.4 24.6





#33
Chrysene
Concen: 0.197 ng
RT: 21.251 min Scan# 2128
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

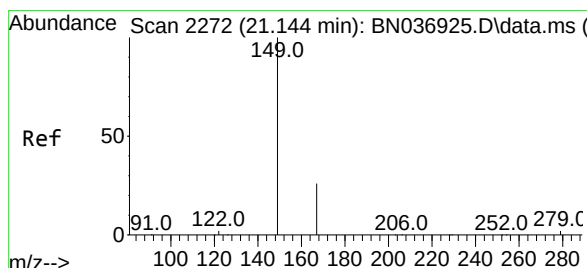
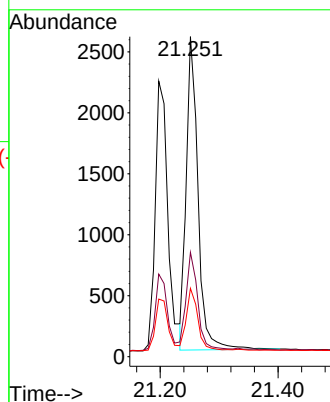
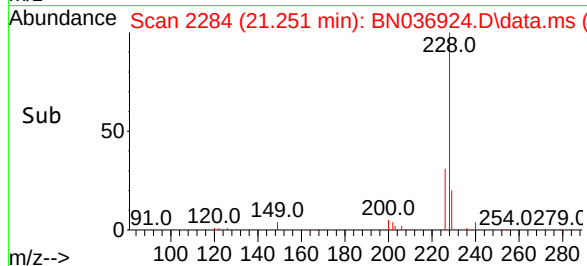
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 228 Resp: 3574
Ion Ratio Lower Upper
228 100
226 32.6 25.5 38.3
229 21.3 16.5 24.7

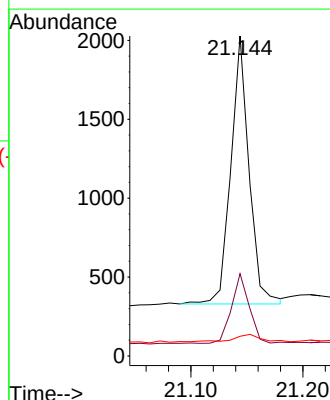
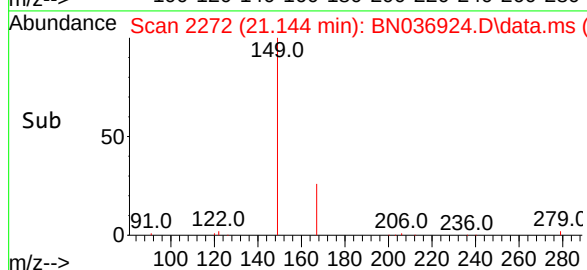
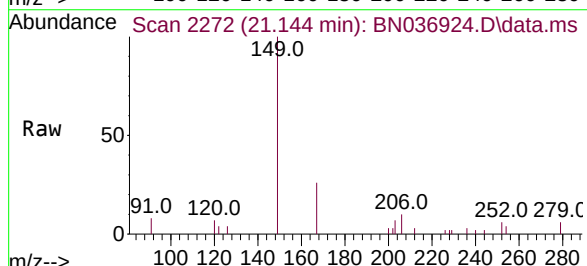
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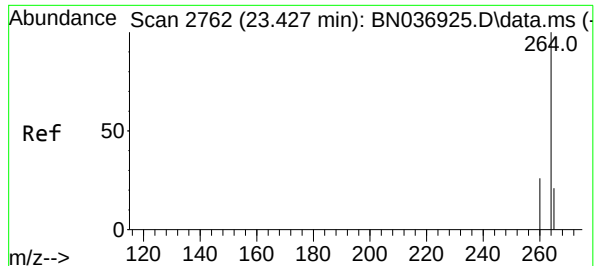
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.203 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

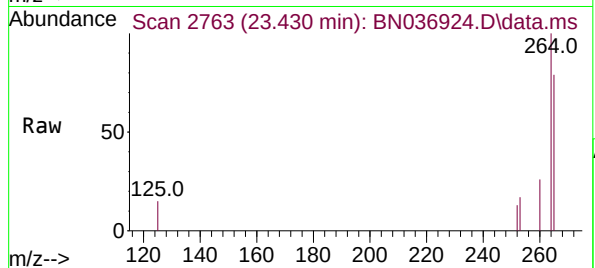
Tgt Ion: 149 Resp: 1921
Ion Ratio Lower Upper
149 100
167 25.4 21.0 31.6
279 3.9 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.430 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

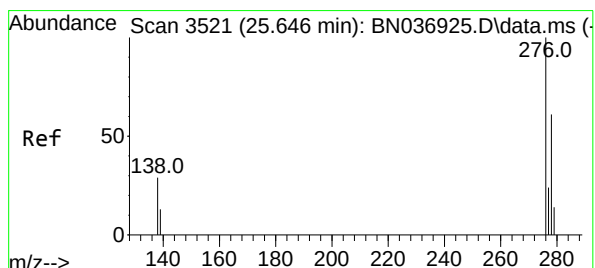
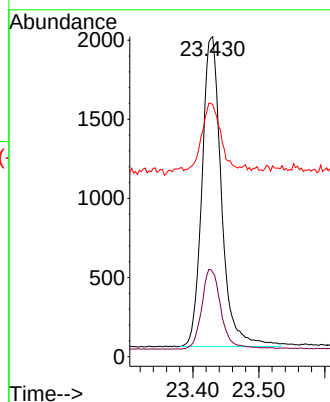
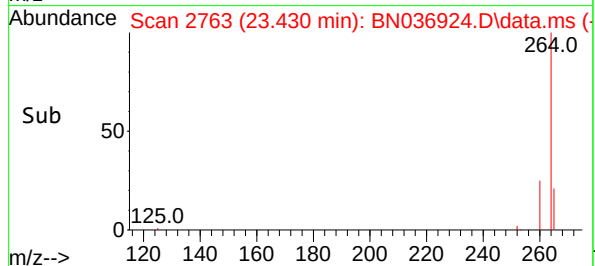
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:264 Resp: 4020
Ion Ratio Lower Upper
264 100
260 26.4 22.2 33.2
265 78.7 65.8 98.6

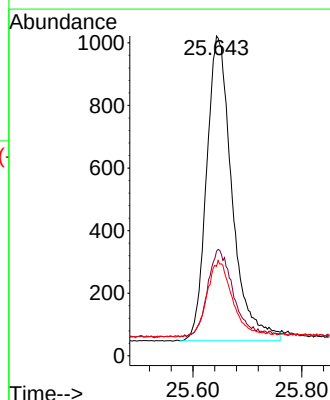
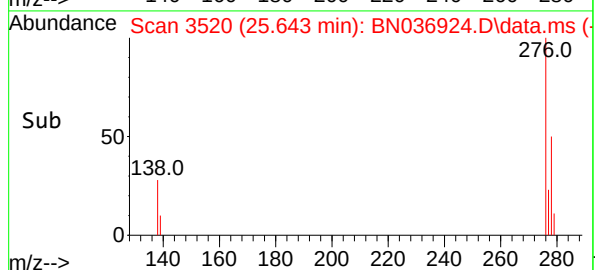
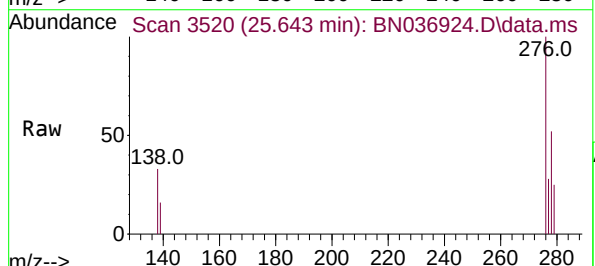
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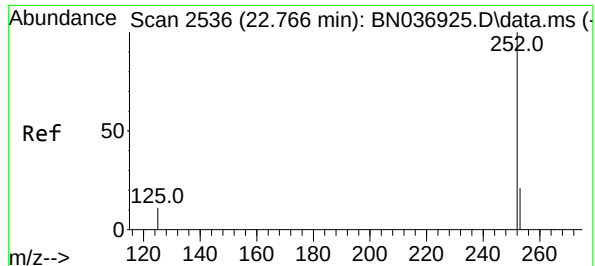
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.192 ng
RT: 25.643 min Scan# 3520
Delta R.T. -0.003 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:276 Resp: 3163
Ion Ratio Lower Upper
276 100
138 28.4 23.0 34.6
277 25.2 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.187 ng

RT: 22.766 min Scan# 2536

Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

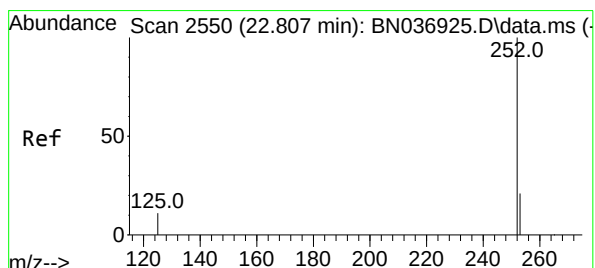
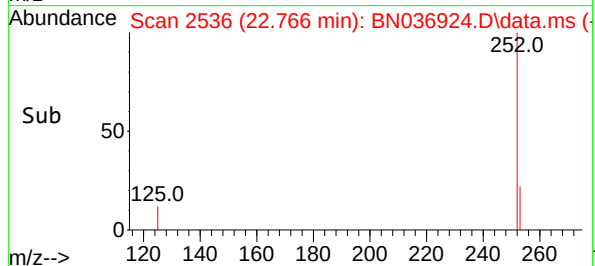
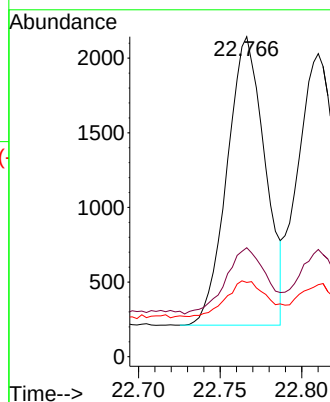
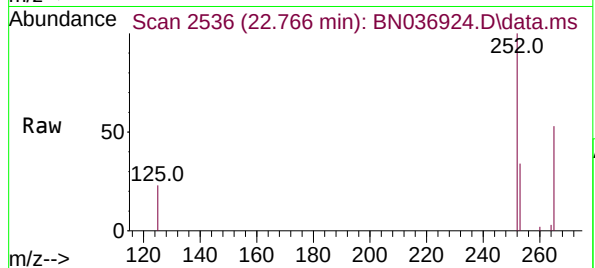
Tgt Ion:252	Resp:	3124
Ion Ratio	Lower	Upper
252	100	
253	34.0	22.1 33.1#
125	23.2	14.2 21.2#

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#38

Benzo(k)fluoranthene

Concen: 0.187 ng

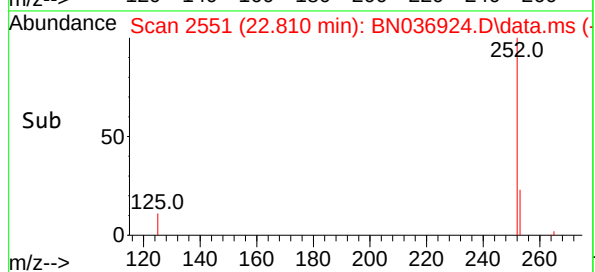
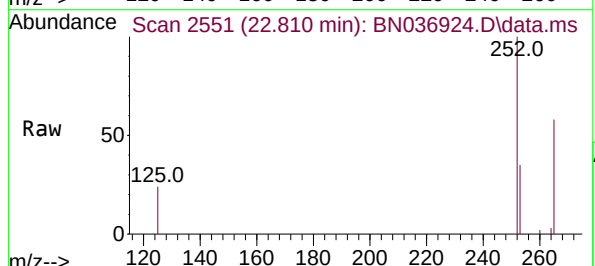
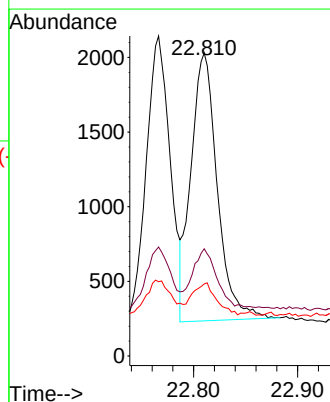
RT: 22.810 min Scan# 2551

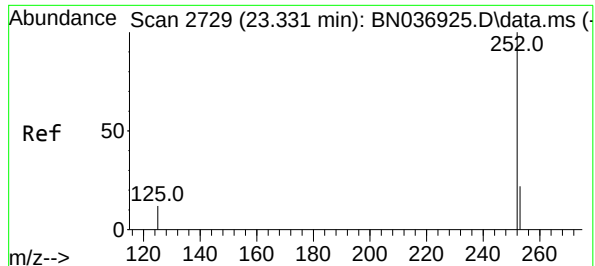
Delta R.T. 0.003 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Tgt Ion:252	Resp:	3158
Ion Ratio	Lower	Upper
252	100	
253	35.4	22.8 34.2#
125	23.8	14.2 21.2#





#39

Benzo(a)pyrene

Concen: 0.190 ng

RT: 23.328 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

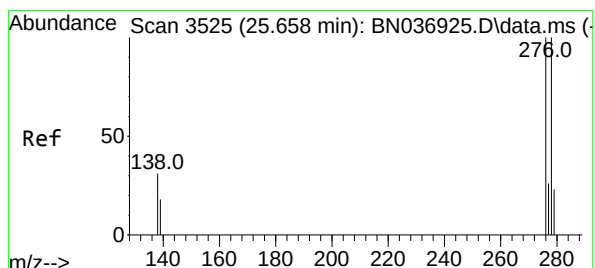
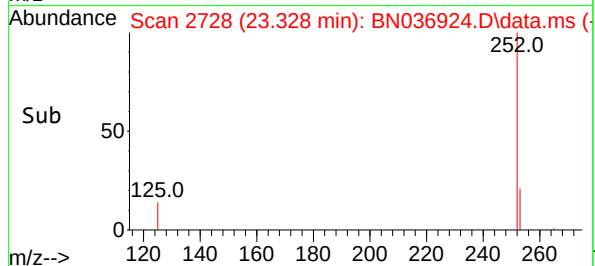
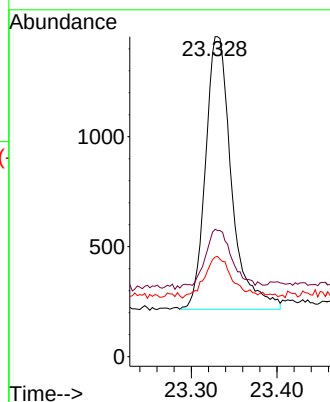
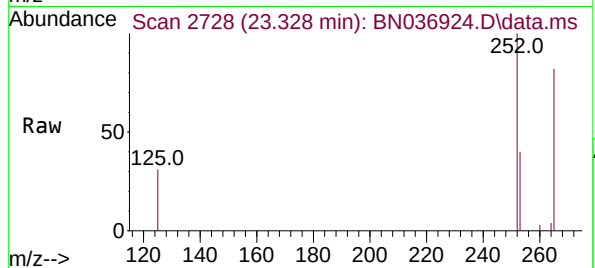
Tgt Ion:252	Resp:	2619
Ion Ratio	Lower	Upper
252	100	
253	39.8	25.9 38.9
125	31.1	17.4 26.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.193 ng

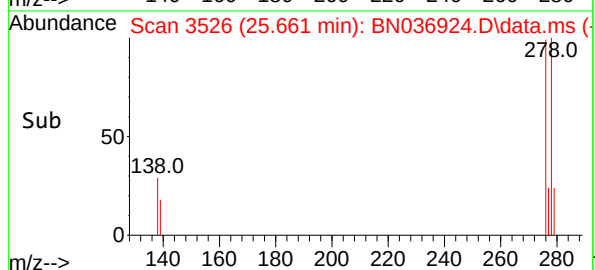
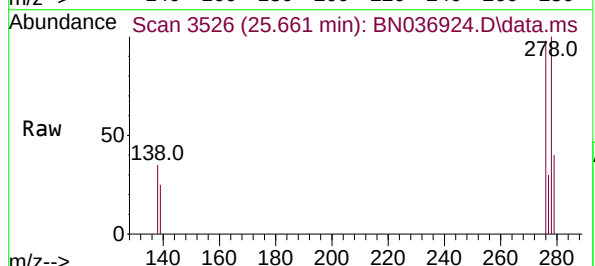
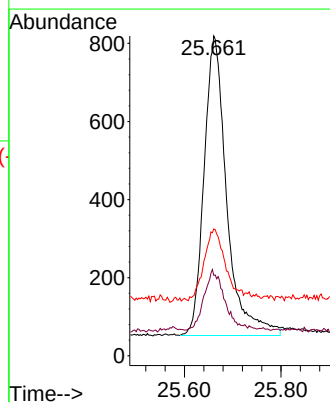
RT: 25.661 min Scan# 3526

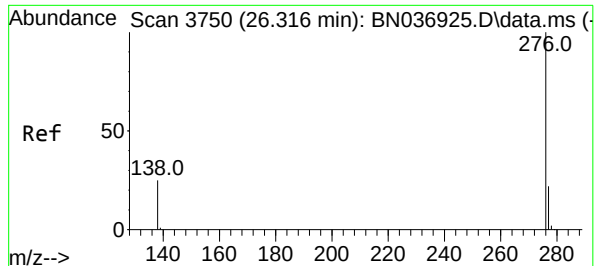
Delta R.T. 0.003 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Tgt Ion:278	Resp:	2498
Ion Ratio	Lower	Upper
278	100	
139	25.2	17.4 26.2
279	39.7	24.9 37.3





#41

Benzo(g,h,i)perylene

Concen: 0.195 ng

RT: 26.327 min Scan# 31

Delta R.T. 0.012 min

Lab File: BN036924.D

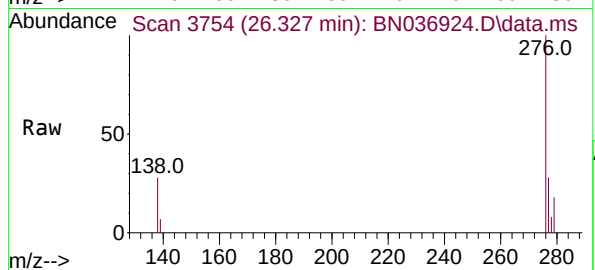
Acq: 28 Apr 2025 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion: 276 Resp: 2828

Ion Ratio Lower Upper

276 100

277 28.3 20.2 30.2

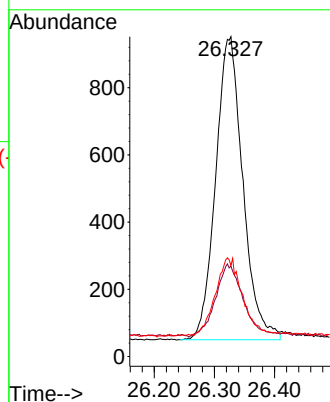
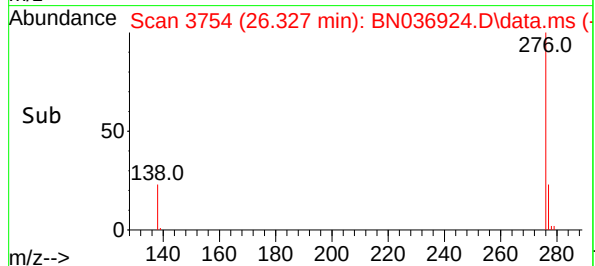
138 28.5 21.9 32.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036925.D
 Acq On : 28 Apr 2025 12:47
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Apr 28 15:12:49 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:11:09 2025
 Response via : Initial Calibration

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

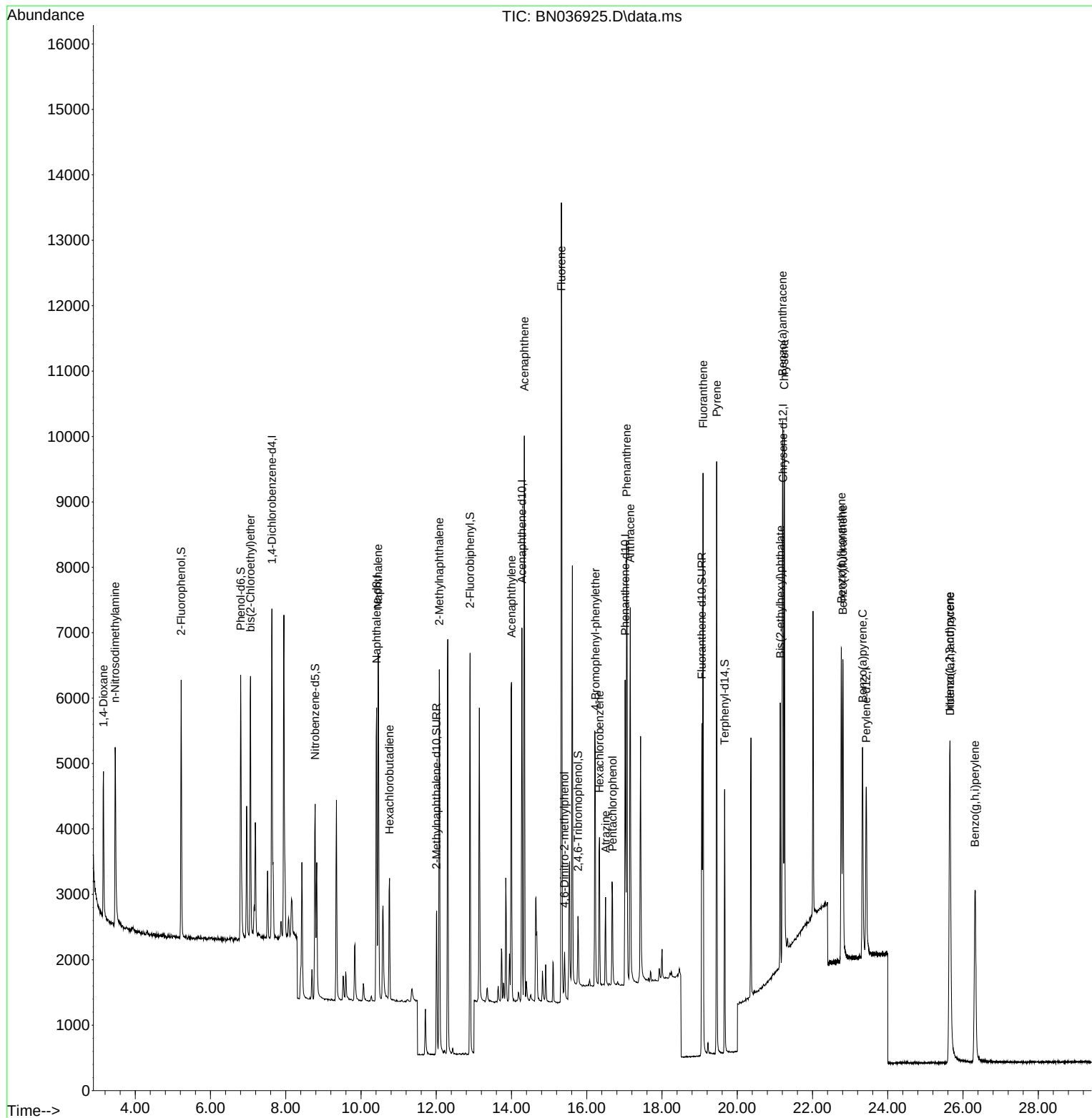
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2374	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	5831	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3051	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	5711	0.400	ng	0.00
29) Chrysene-d12	21.216	240	4119	0.400	ng	0.00
35) Perylene-d12	23.427	264	3630	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.221	112	2654	0.433	ng	0.00
5) Phenol-d6	6.802	99	3175	0.425	ng	0.00
8) Nitrobenzene-d5	8.781	82	2394	0.395	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	3153	0.390	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	540	0.404	ng	0.00
15) 2-Fluorobiphenyl	12.899	172	6270	0.425	ng	0.00
27) Fluoranthene-d10	19.059	212	5661	0.387	ng	0.00
31) Terphenyl-d14	19.667	244	3895	0.397	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.155	88	1309	0.437	ng	100
3) n-Nitrosodimethylamine	3.466	42	2398	0.414	ng	100
6) bis(2-Chloroethyl)ether	7.062	93	2778	0.401	ng	100
9) Naphthalene	10.458	128	6735	0.397	ng	100
10) Hexachlorobutadiene	10.757	225	1476	0.399	ng	# 100
12) 2-Methylnaphthalene	12.082	142	4195	0.386	ng	100
16) Acenaphthylene	13.999	152	5817	0.394	ng	100
17) Acenaphthene	14.342	154	3889	0.398	ng	100
18) Fluorene	15.325	166	4955	0.390	ng	100
20) 4,6-Dinitro-2-methylph...	15.411	198	516	0.361	ng	100
21) 4-Bromophenyl-phenylether	16.227	248	1494	0.393	ng	100
22) Hexachlorobenzene	16.338	284	1714	0.408	ng	100
23) Atrazine	16.500	200	1139	0.380	ng	100
24) Pentachlorophenol	16.686	266	824	0.378	ng	100
25) Phenanthrene	17.058	178	7417	0.395	ng	100
26) Anthracene	17.158	178	6553	0.390	ng	100
28) Fluoranthene	19.091	202	7988	0.384	ng	100
30) Pyrene	19.454	202	8067	0.403	ng	100
32) Benzo(a)anthracene	21.207	228	5885	0.392	ng	100
33) Chrysene	21.251	228	6742	0.410	ng	100
34) Bis(2-ethylhexyl)phtha...	21.144	149	3434	0.400	ng	100
36) Indeno(1,2,3-cd)pyrene	25.646	276	6214	0.418	ng	100
37) Benzo(b)fluoranthene	22.766	252	5932	0.394	ng	100
38) Benzo(k)fluoranthene	22.807	252	5983	0.393	ng	100
39) Benzo(a)pyrene	23.331	252	4940	0.398	ng	100
40) Dibenzo(a,h)anthracene	25.658	278	4897	0.419	ng	100
41) Benzo(g,h,i)perylene	26.316	276	5500	0.420	ng	100

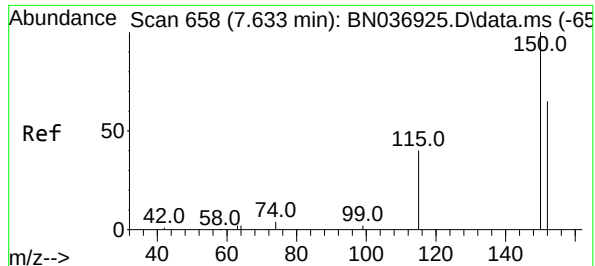
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036925.D
Acq On : 28 Apr 2025 12:47
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

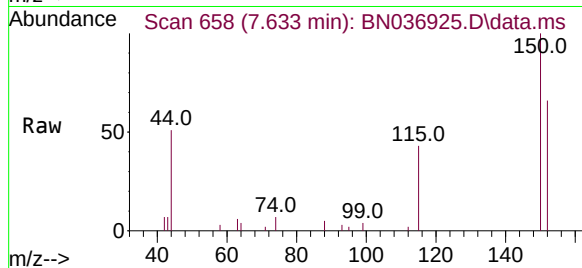
Quant Time: Apr 28 15:12:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration



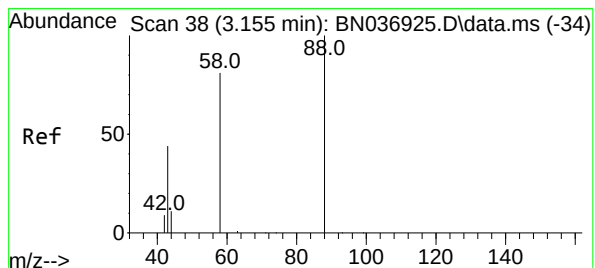
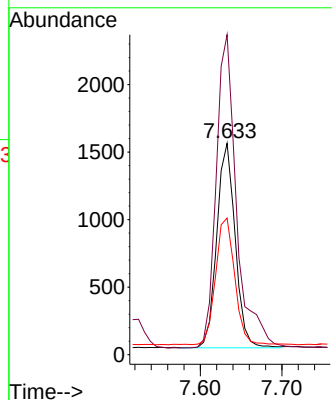
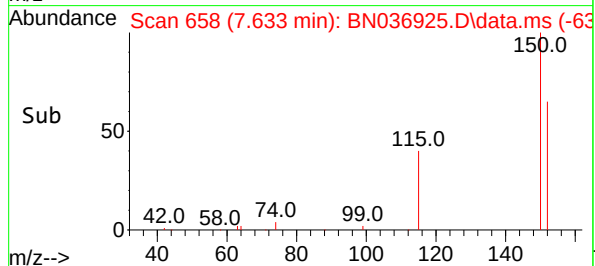


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

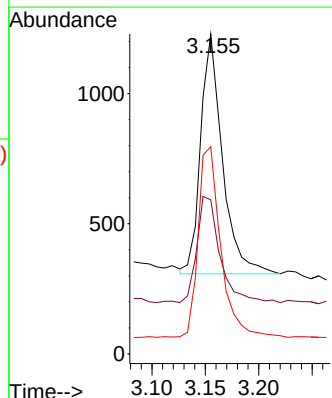
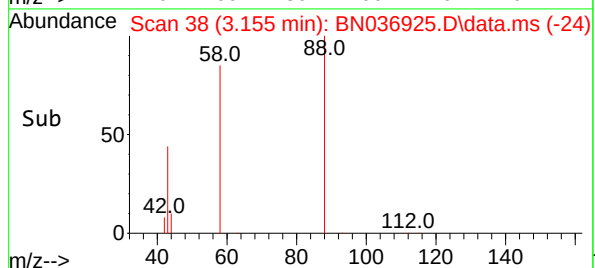
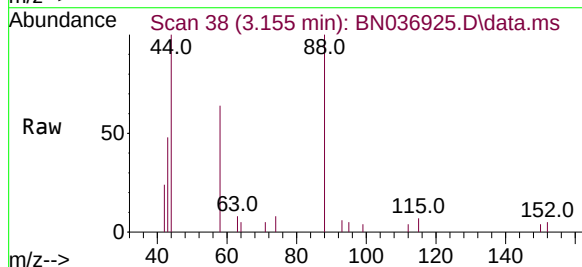


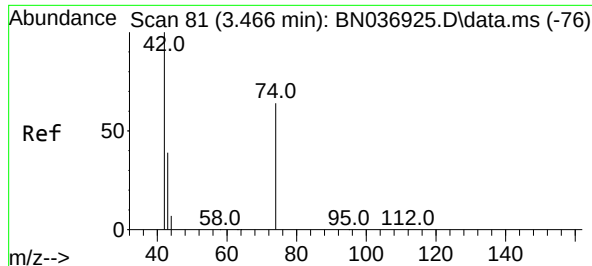
Tgt Ion:152 Resp: 2374
Ion Ratio Lower Upper
152 100
150 151.4 121.1 181.7
115 64.7 51.8 77.6



#2
1,4-Dioxane
Concen: 0.437 ng
RT: 3.155 min Scan# 38
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion: 88 Resp: 1309
Ion Ratio Lower Upper
88 100
43 47.4 37.9 56.9
58 82.2 65.8 98.6

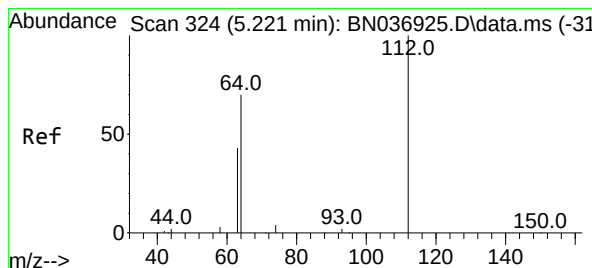
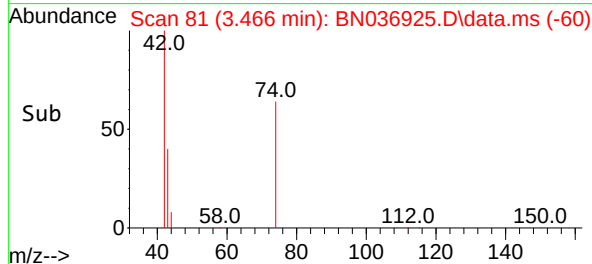
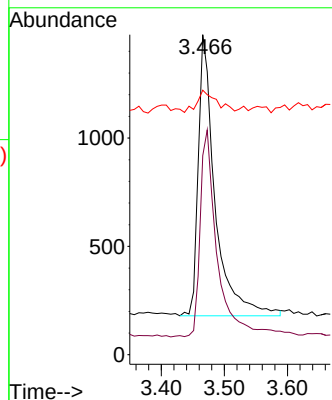
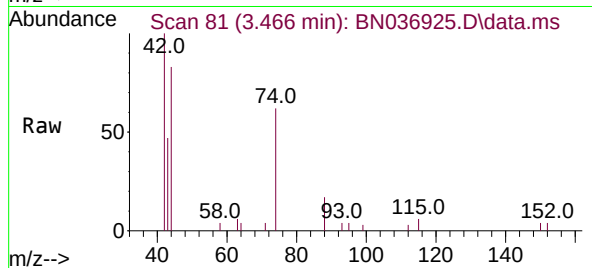




#3
n-Nitrosodimethylamine
Concen: 0.414 ng
RT: 3.466 min Scan# 81
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

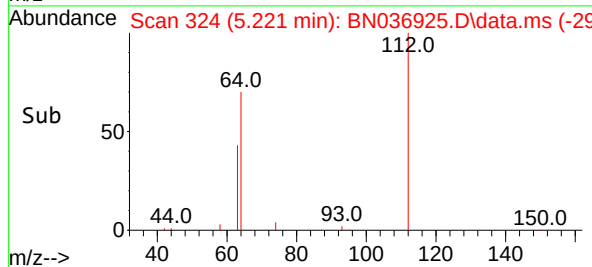
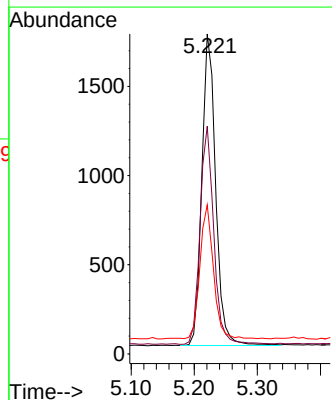
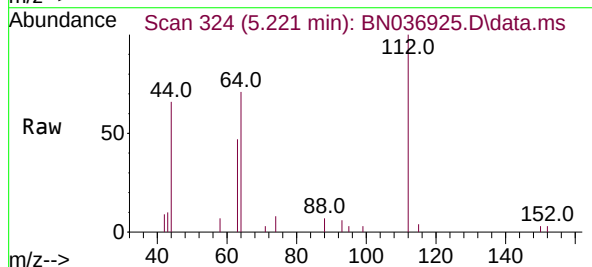
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

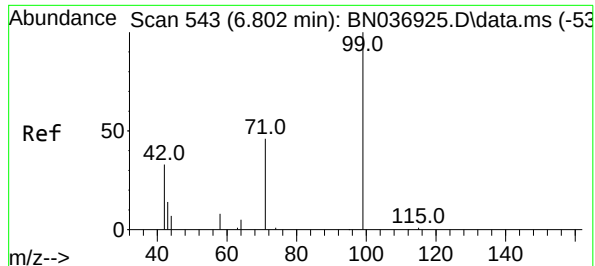
Tgt Ion: 42 Resp: 2398
Ion Ratio Lower Upper
42 100
74 74.9 59.9 89.9
44 9.4 7.5 11.3



#4
2-Fluorophenol
Concen: 0.433 ng
RT: 5.221 min Scan# 324
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion: 112 Resp: 2654
Ion Ratio Lower Upper
112 100
64 69.6 55.7 83.5
63 42.4 33.9 50.9

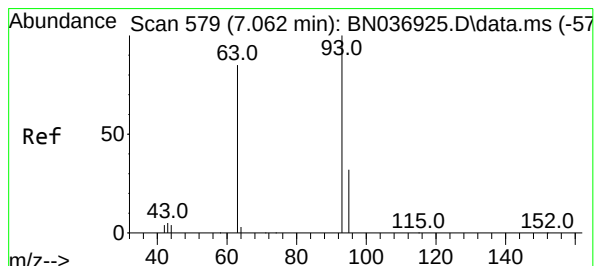
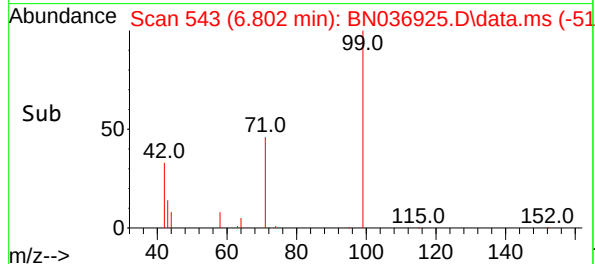
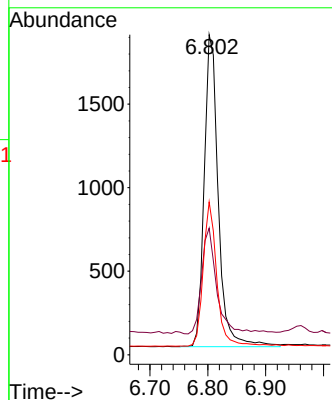
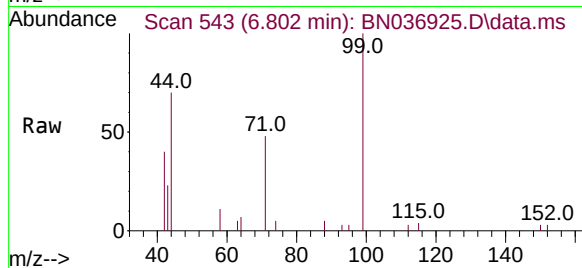




#5
Phenol-d6
Concen: 0.425 ng
RT: 6.802 min Scan# 543
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

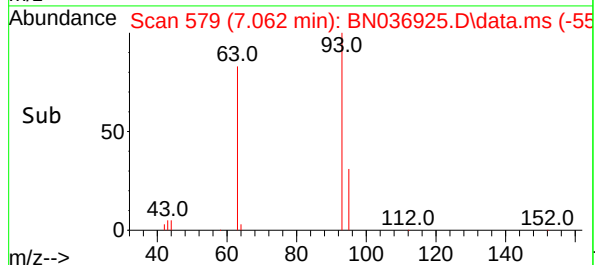
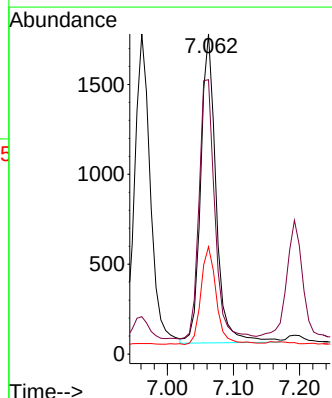
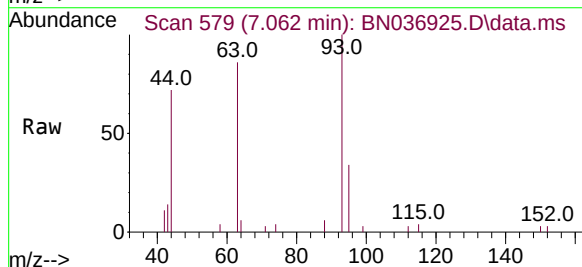
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

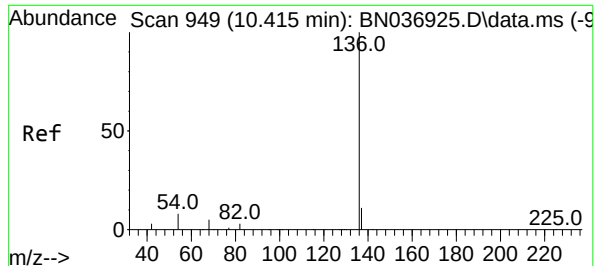
Tgt Ion	Ratio	Lower	Upper
99	100		
42	37.0	29.6	44.4
71	45.0	36.0	54.0



#6
bis(2-Chloroethyl)ether
Concen: 0.401 ng
RT: 7.062 min Scan# 579
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion	Ratio	Lower	Upper
93	100		
63	86.3	69.0	103.6
95	31.7	25.4	38.0

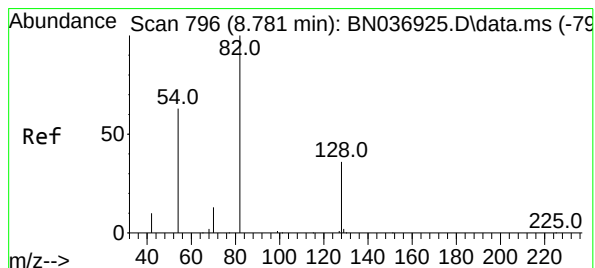
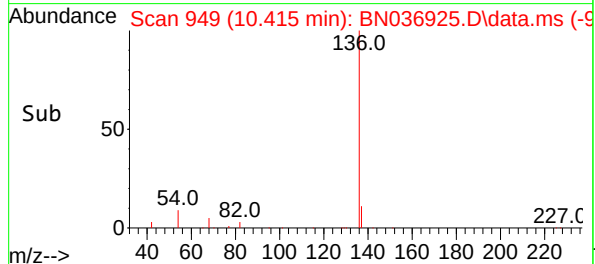
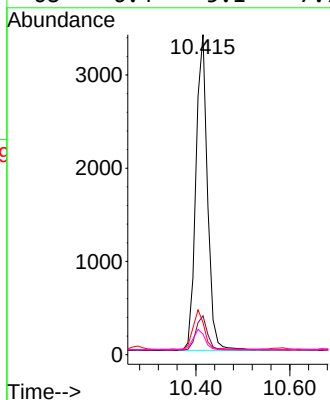
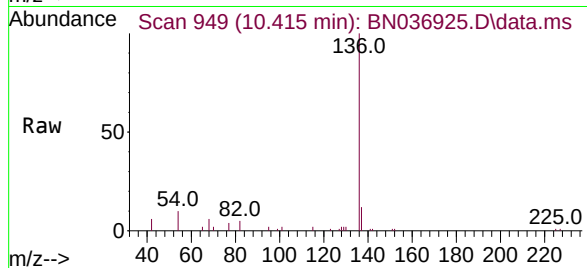




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

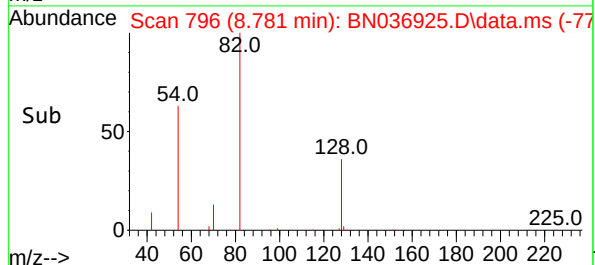
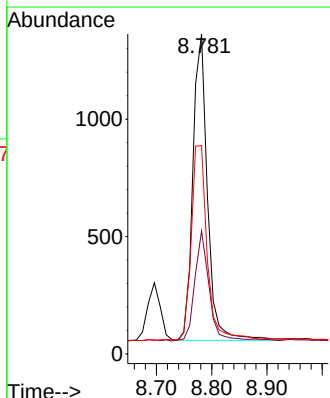
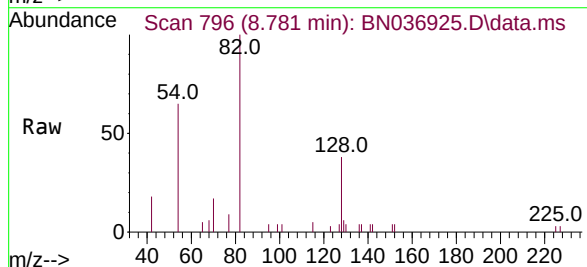
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

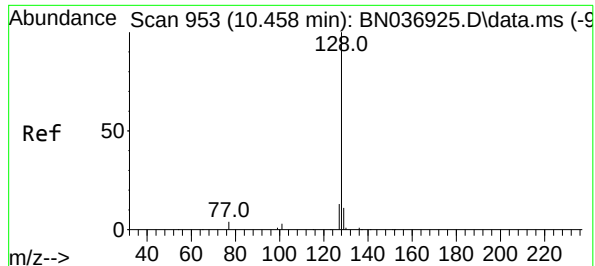
Tgt Ion:	136	Resp:	5831
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.7	14.5
54	10.0	8.0	12.0
68	6.4	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.395 ng
RT: 8.781 min Scan# 796
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:	82	Resp:	2394
Ion	Ratio	Lower	Upper
82	100		
128	38.4	30.7	46.1
54	65.1	52.1	78.1

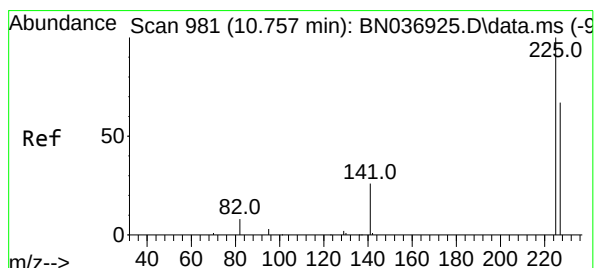
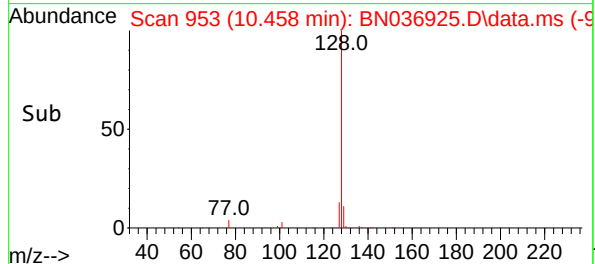
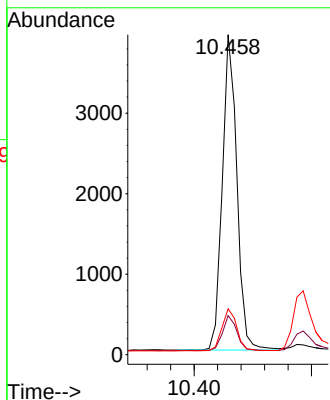
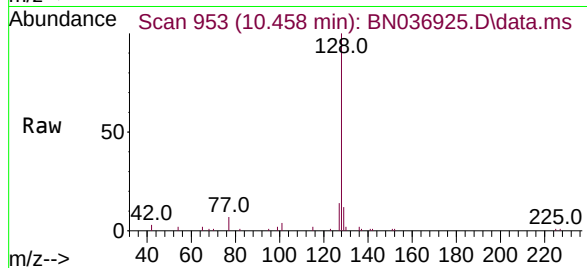




#9
Naphthalene
Concen: 0.397 ng
RT: 10.458 min Scan# 953
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

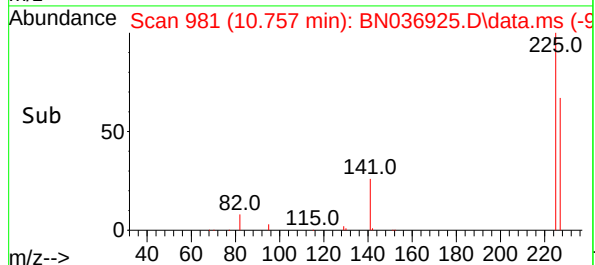
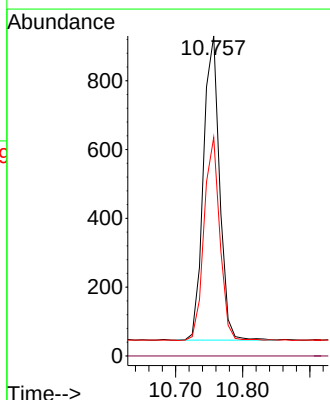
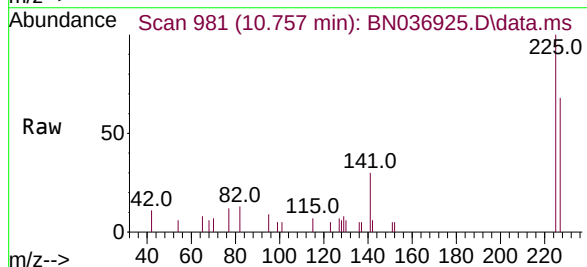
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

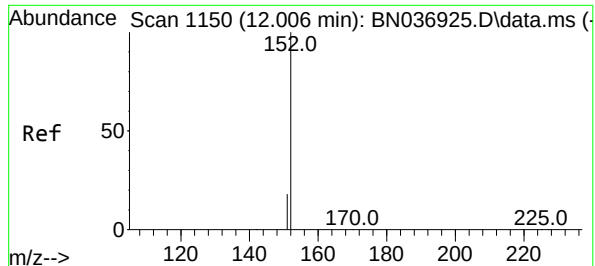
Tgt Ion:128 Resp: 6735
Ion Ratio Lower Upper
128 100
129 12.2 9.8 14.6
127 14.3 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.399 ng
RT: 10.757 min Scan# 981
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:225 Resp: 1476
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.3 52.2 78.4

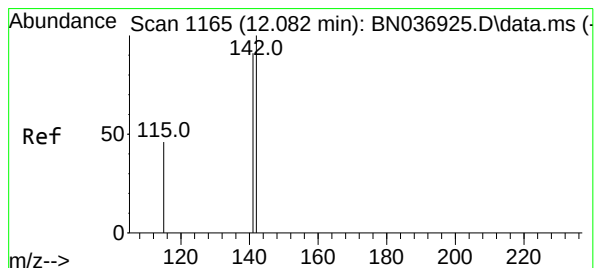
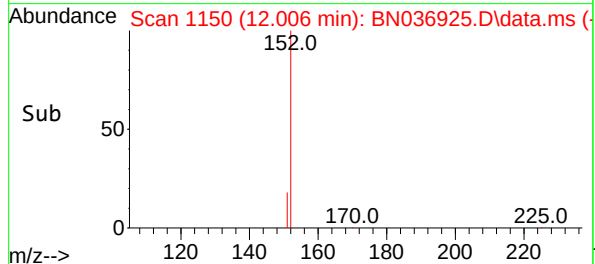
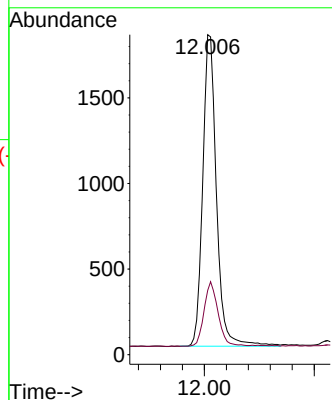
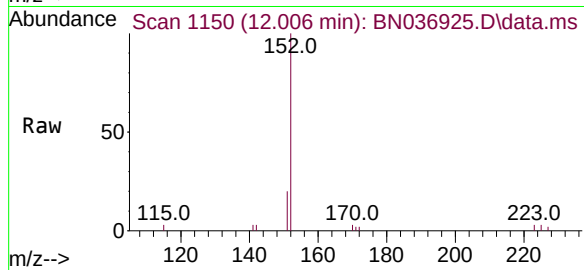




#11
2-Methylnaphthalene-d10
Concen: 0.390 ng
RT: 12.006 min Scan# 1150
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

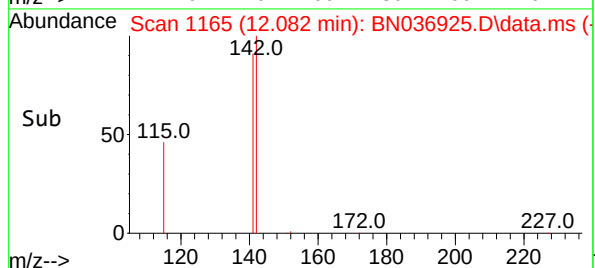
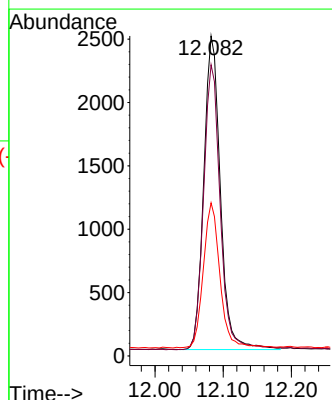
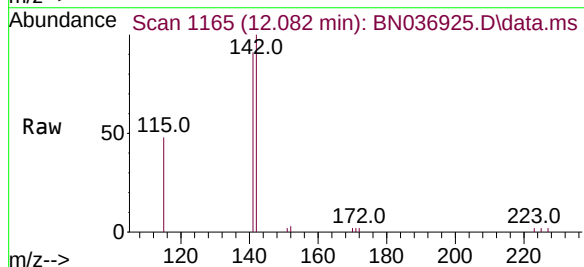
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

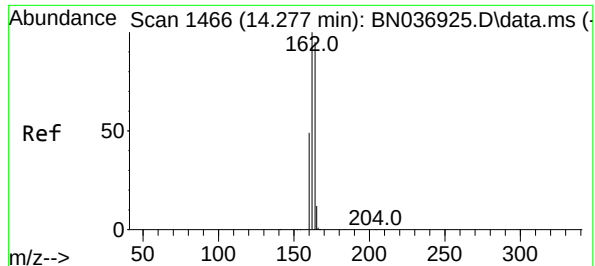
Tgt Ion:152 Resp: 3153
Ion Ratio Lower Upper
152 100
151 21.1 16.9 25.3



#12
2-Methylnaphthalene
Concen: 0.386 ng
RT: 12.082 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:142 Resp: 4195
Ion Ratio Lower Upper
142 100
141 91.0 72.8 109.2
115 47.8 38.2 57.4

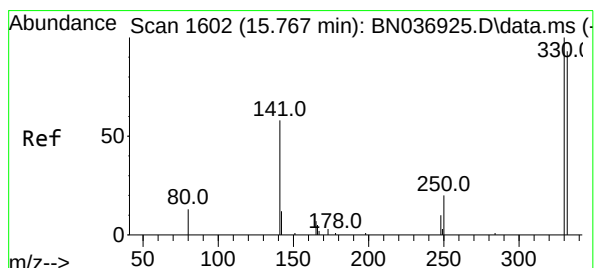
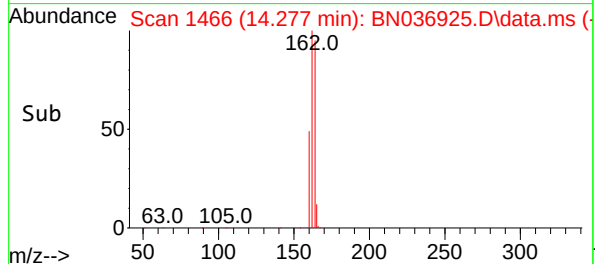
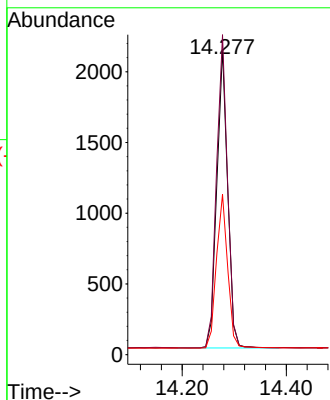
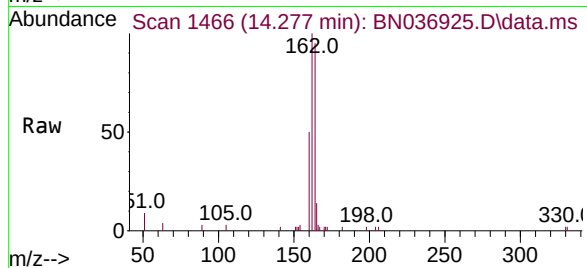




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

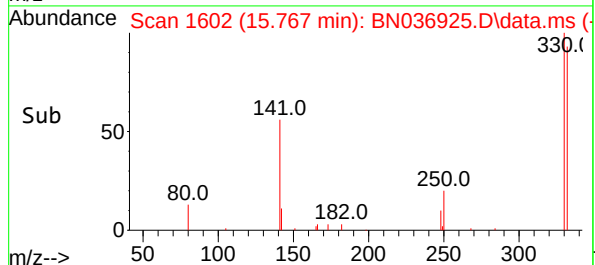
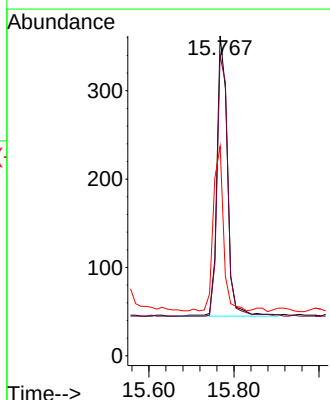
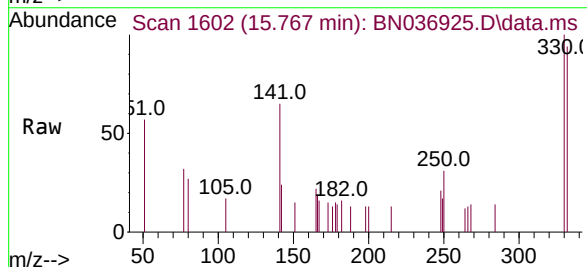
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

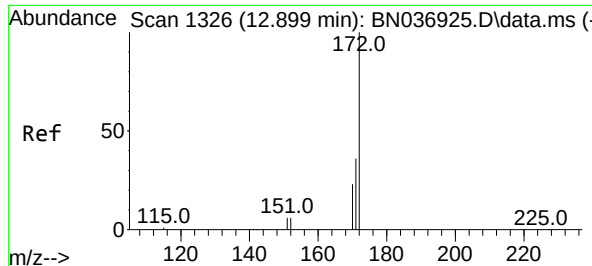
Tgt Ion:164 Resp: 3051
Ion Ratio Lower Upper
164 100
162 104.8 83.8 125.8
160 52.5 42.0 63.0



#14
2,4,6-Tribromophenol
Concen: 0.404 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:330 Resp: 540
Ion Ratio Lower Upper
330 100
332 95.7 76.3 114.5
141 57.8 45.4 68.2

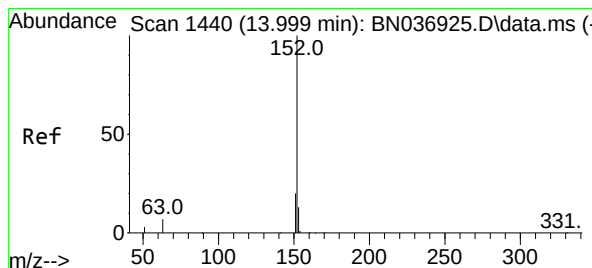
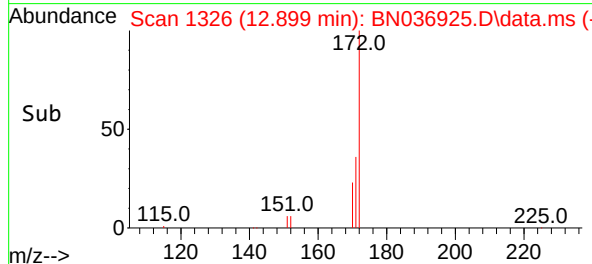
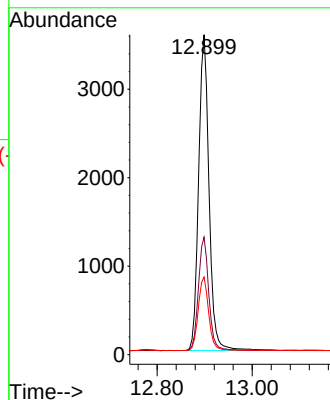
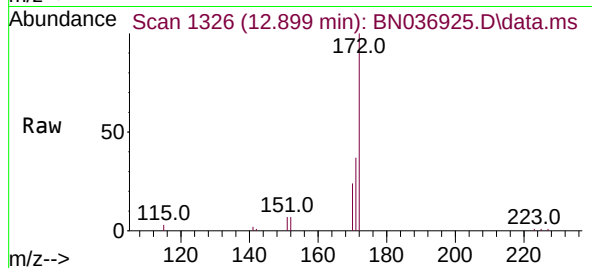




#15
2-Fluorobiphenyl
Concen: 0.425 ng
RT: 12.899 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

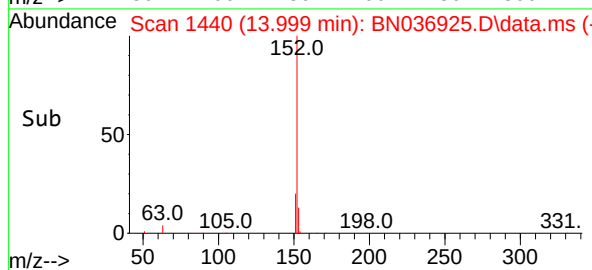
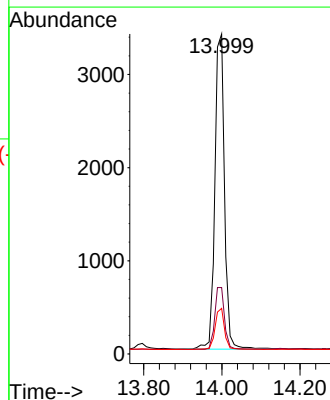
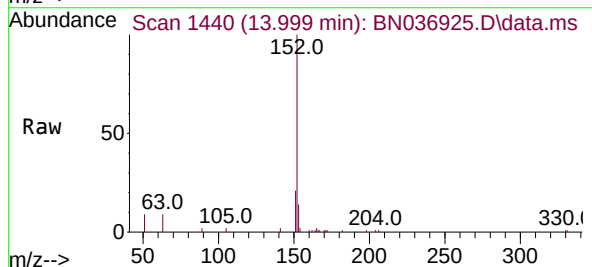
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

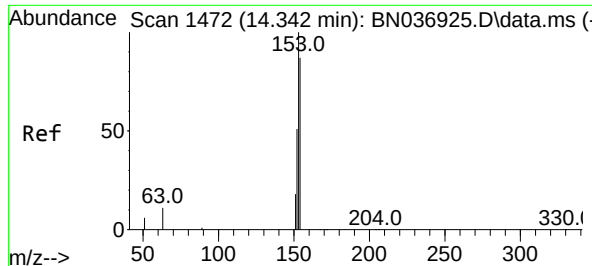
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.7	29.4	44.0
170	24.2	19.4	29.0



#16
Acenaphthylene
Concen: 0.394 ng
RT: 13.999 min Scan# 1440
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0
153	12.7	10.2	15.2

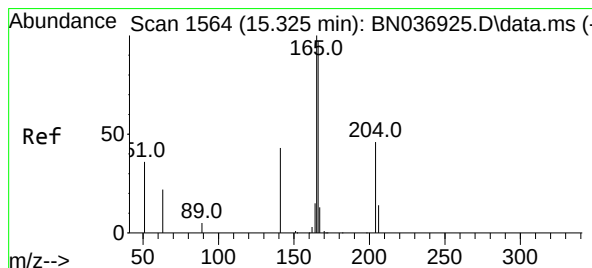
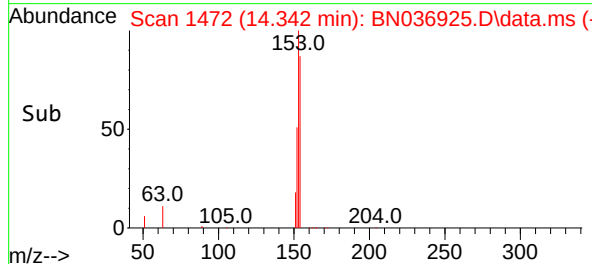
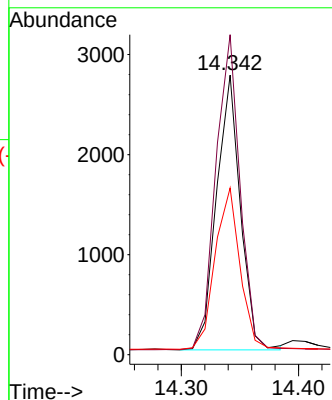
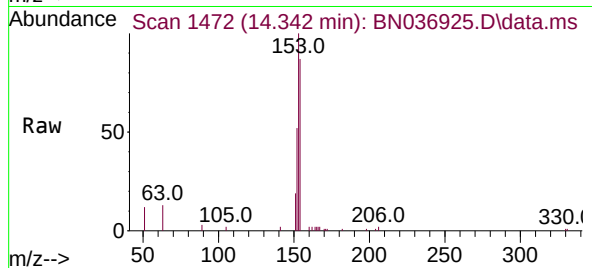




#17
Acenaphthene
Concen: 0.398 ng
RT: 14.342 min Scan# 1472
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

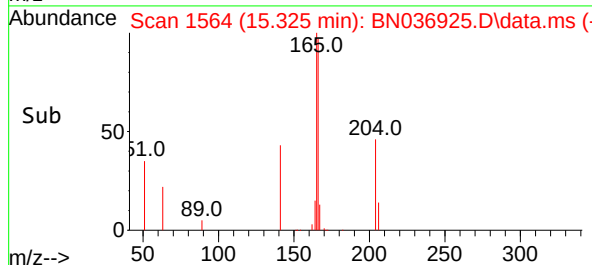
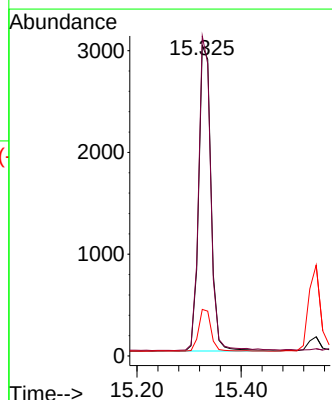
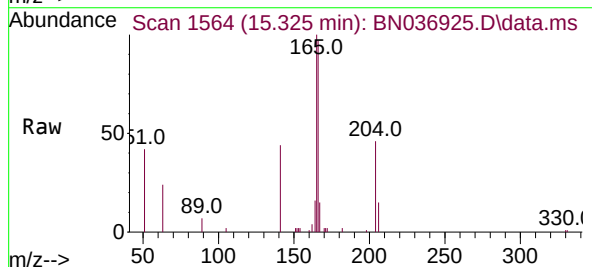
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

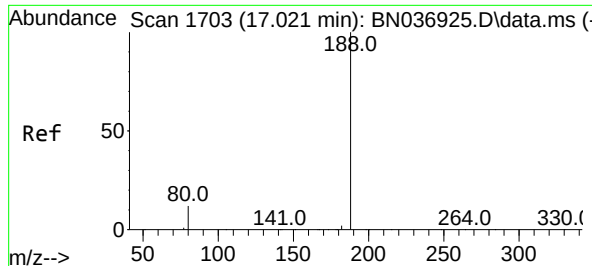
Tgt Ion:154 Resp: 3889
Ion Ratio Lower Upper
154 100
153 116.8 93.4 140.2
152 61.9 49.5 74.3



#18
Fluorene
Concen: 0.390 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:166 Resp: 4955
Ion Ratio Lower Upper
166 100
165 101.0 80.8 121.2
167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

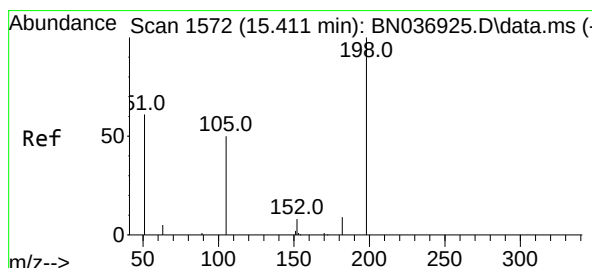
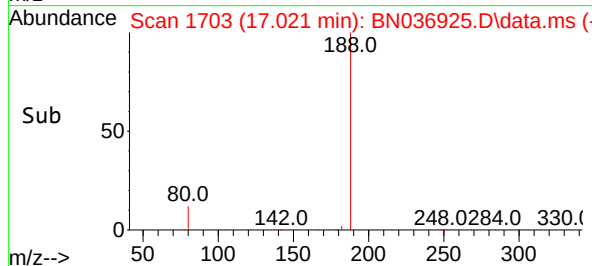
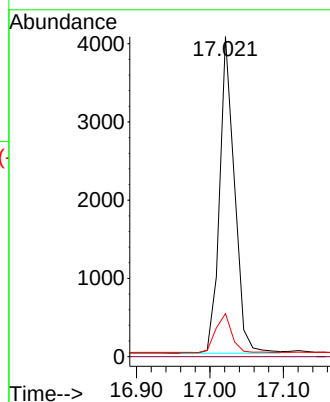
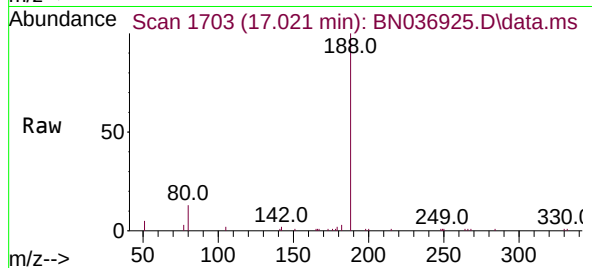
Tgt Ion:188 Resp: 5711

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.4 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 0.361 ng

RT: 15.411 min Scan# 1572

Delta R.T. -0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

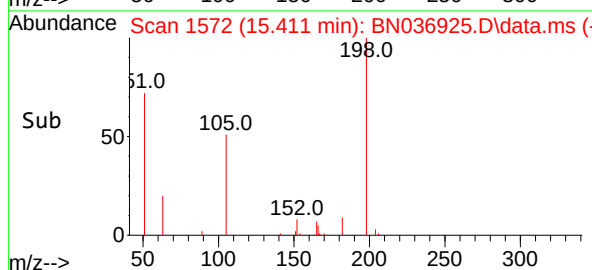
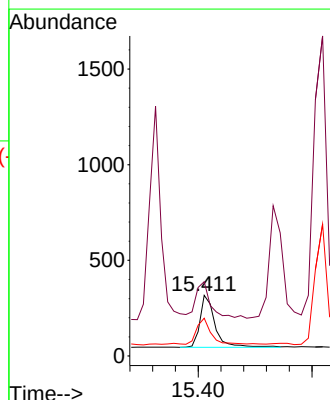
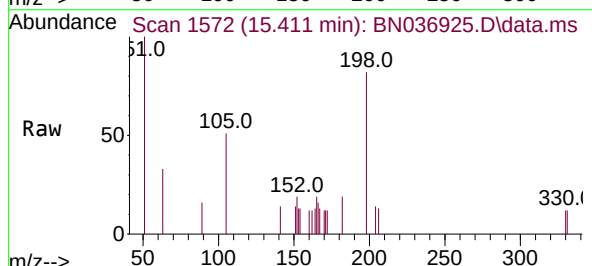
Tgt Ion:198 Resp: 516

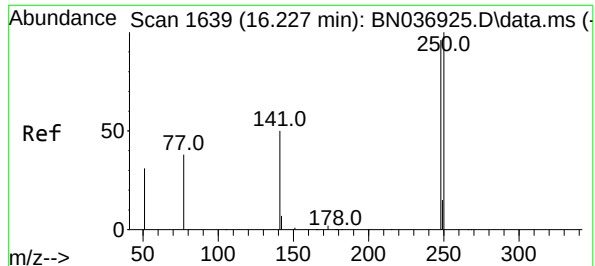
Ion Ratio Lower Upper

198 100

51 122.4 97.9 146.9

105 62.5 50.0 75.0

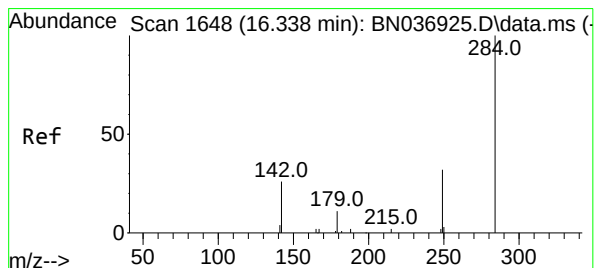
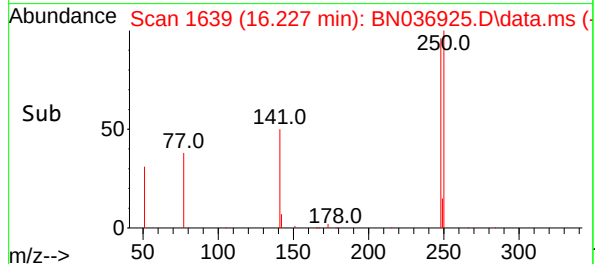
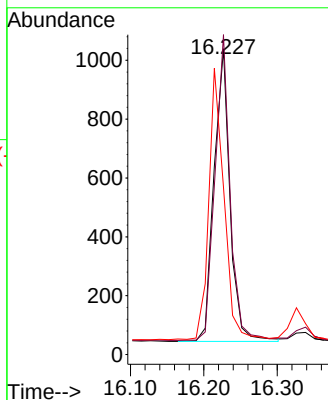
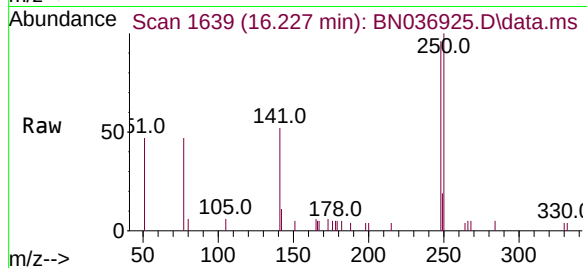




#21
4-Bromophenyl-phenylether
Concen: 0.393 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

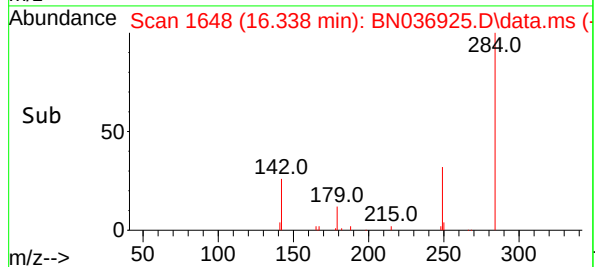
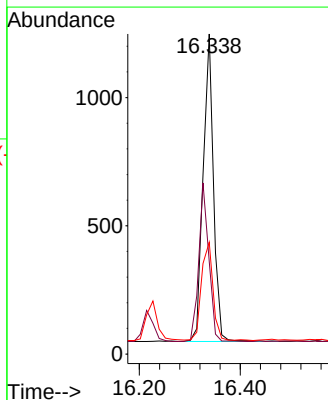
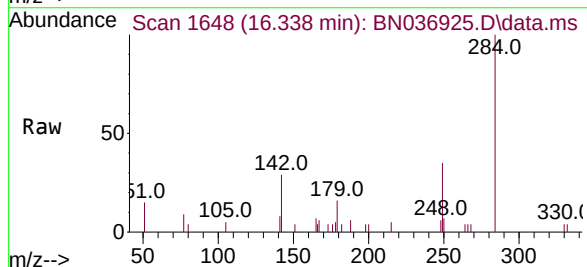
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

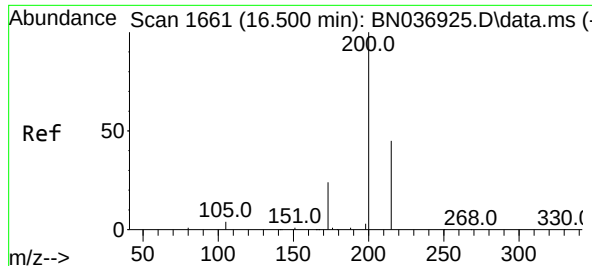
Tgt Ion	Ratio	Lower	Upper
248	100		
250	104.6	83.7	125.5
141	54.8	43.8	65.8



#22
Hexachlorobenzene
Concen: 0.408 ng
RT: 16.338 min Scan# 1648
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion	Ratio	Lower	Upper
284	100		
142	50.0	40.0	60.0
249	35.2	28.2	42.2

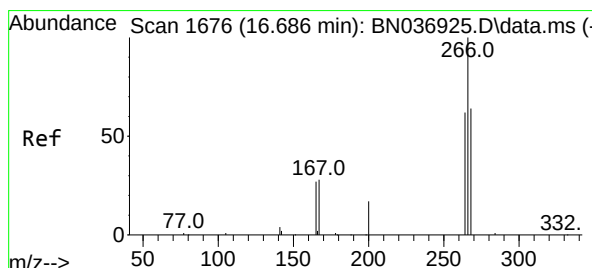
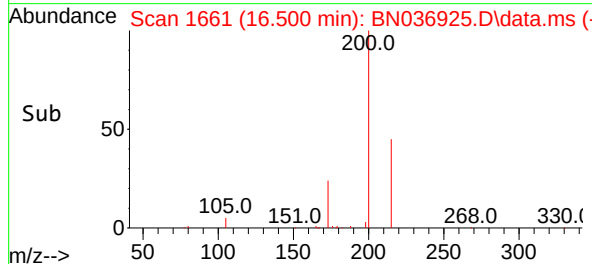
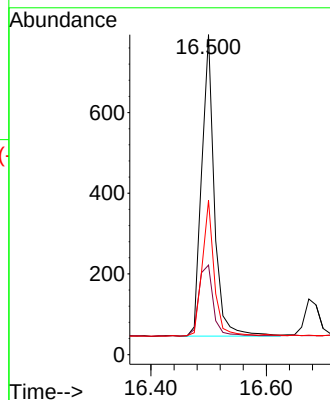
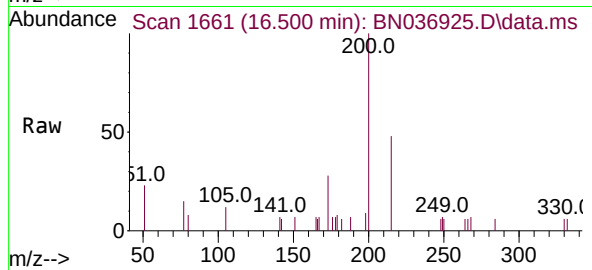




#23
Atrazine
Concen: 0.380 ng
RT: 16.500 min Scan# 1661
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

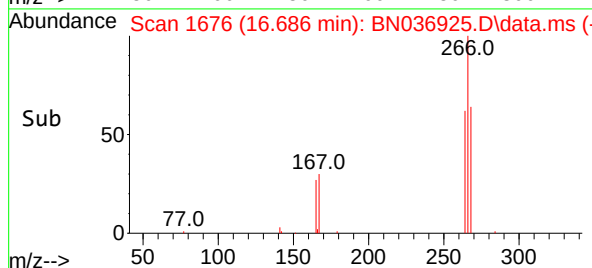
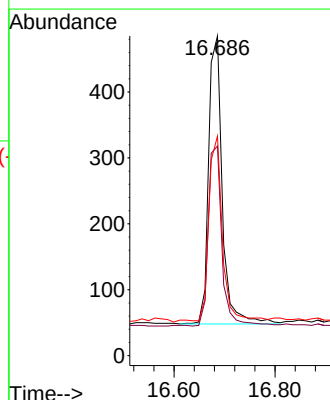
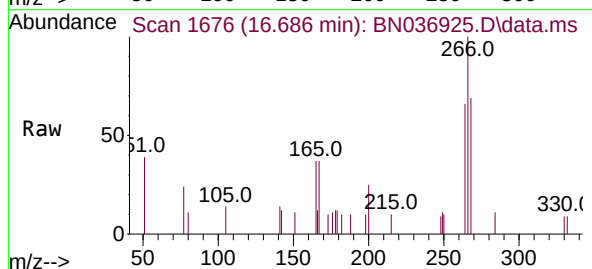
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

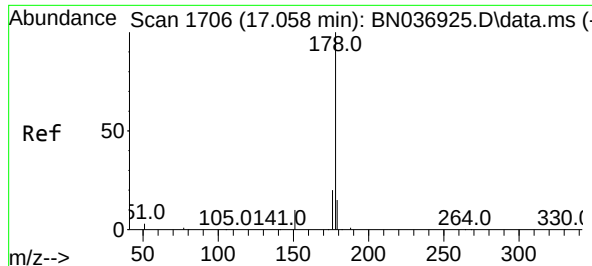
Tgt Ion	Ratio	Lower	Upper
200	100		
173	28.0	22.4	33.6
215	48.2	38.6	57.8



#24
Pentachlorophenol
Concen: 0.378 ng
RT: 16.686 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.4	49.9	74.9
268	65.3	52.2	78.4

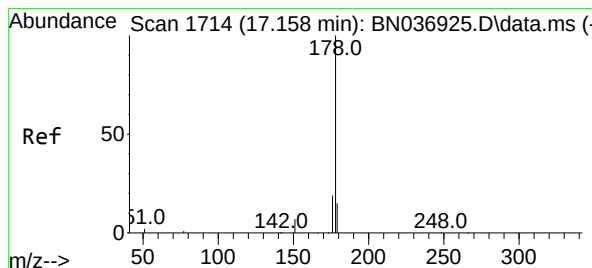
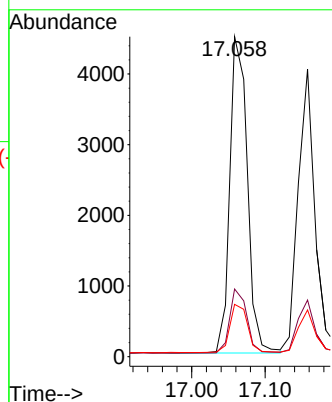
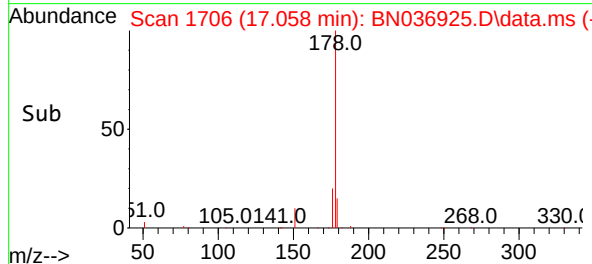
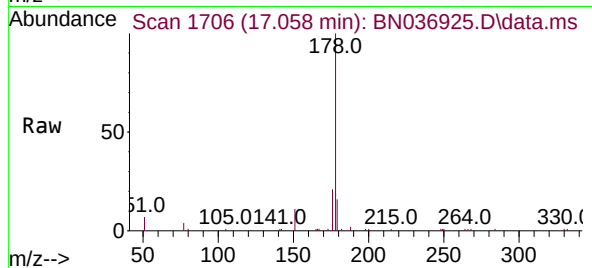




#25
Phenanthrene
Concen: 0.395 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

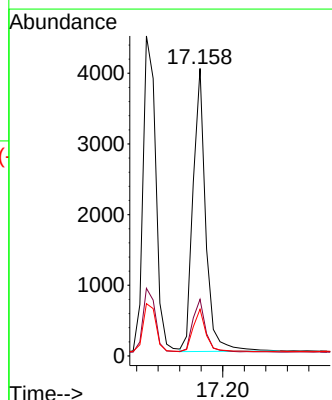
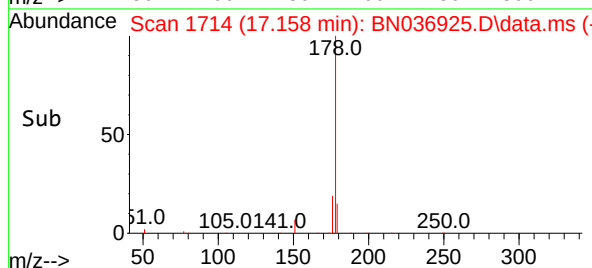
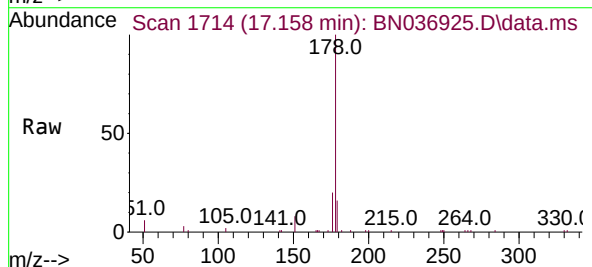
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

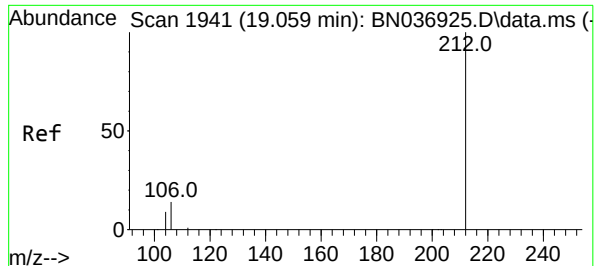
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.7	23.5
179	15.5	12.4	18.6



#26
Anthracene
Concen: 0.390 ng
RT: 17.158 min Scan# 1714
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.0	12.1	18.1





#27

Fluoranthene-d10

Concen: 0.387 ng

RT: 19.059 min Scan# 1941

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

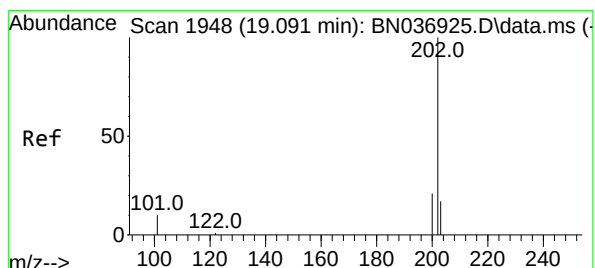
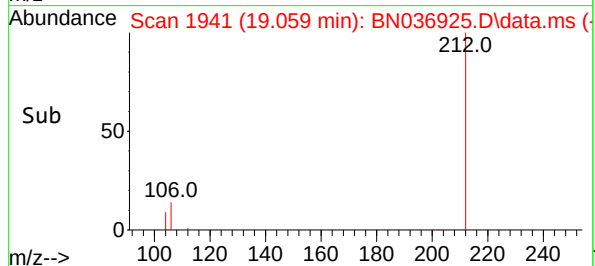
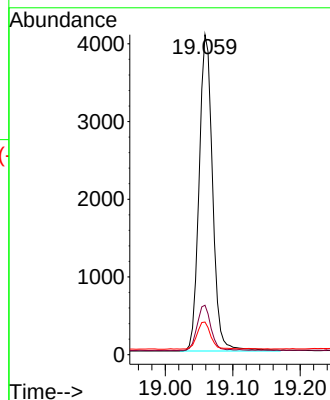
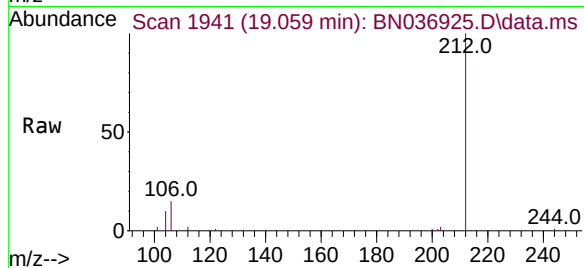
Tgt Ion:212 Resp: 5661

Ion Ratio Lower Upper

212 100

106 14.5 11.6 17.4

104 8.7 7.0 10.4



#28

Fluoranthene

Concen: 0.384 ng

RT: 19.091 min Scan# 1948

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

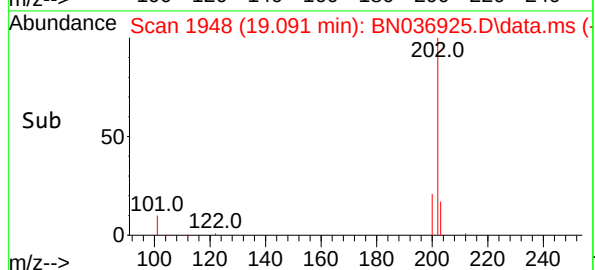
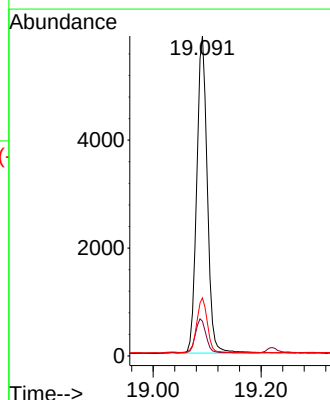
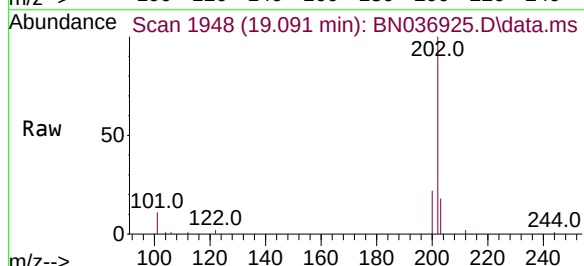
Tgt Ion:202 Resp: 7988

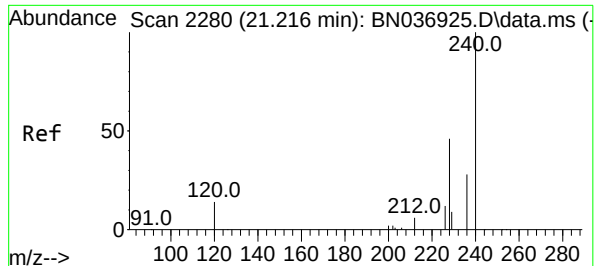
Ion Ratio Lower Upper

202 100

101 10.6 8.5 12.7

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.216 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

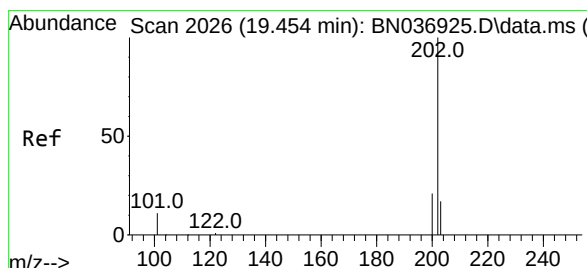
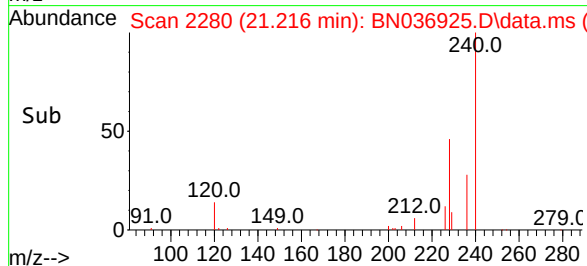
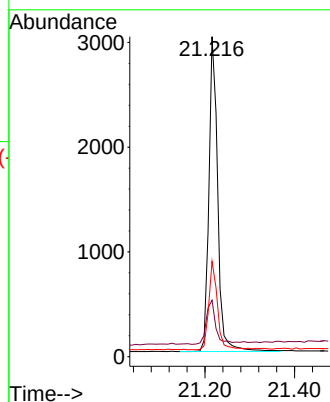
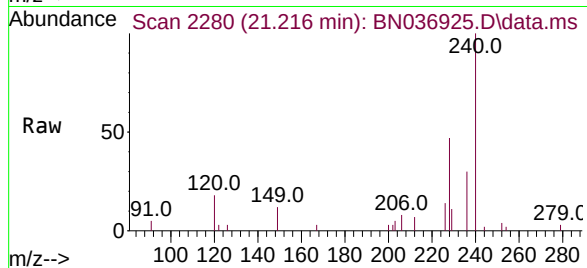
Tgt Ion:240 Resp: 4119

Ion Ratio Lower Upper

240 100

120 17.6 14.1 21.1

236 29.8 23.8 35.8



#30

Pyrene

Concen: 0.403 ng

RT: 19.454 min Scan# 2026

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

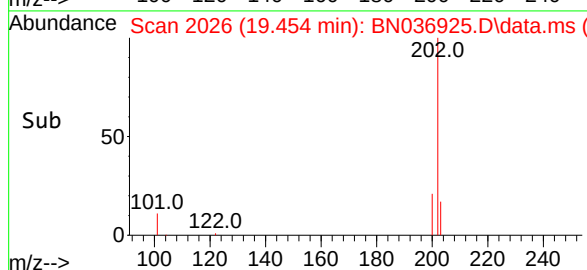
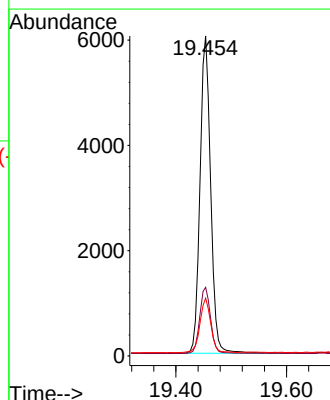
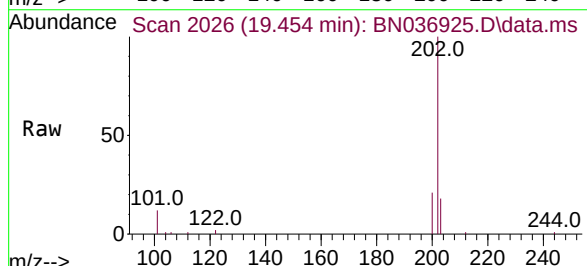
Tgt Ion:202 Resp: 8067

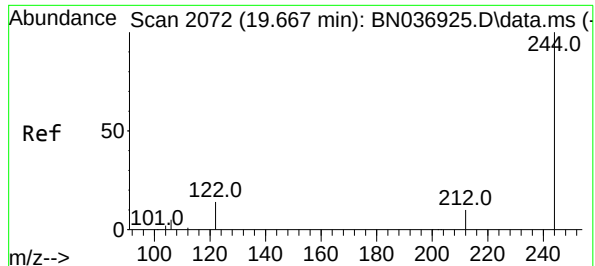
Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.6

203 17.5 14.0 21.0

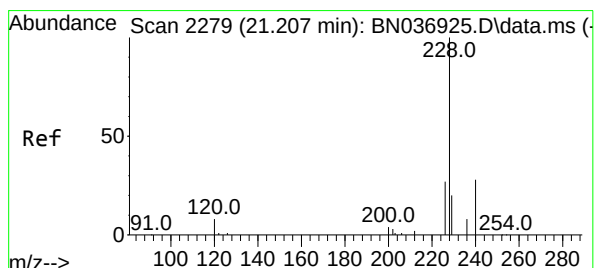
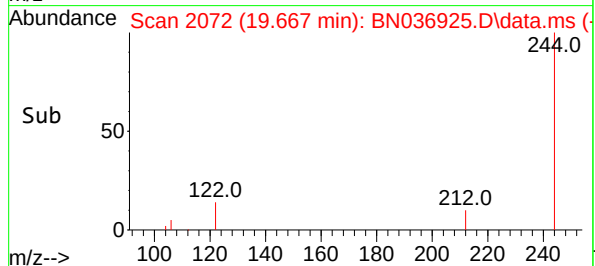
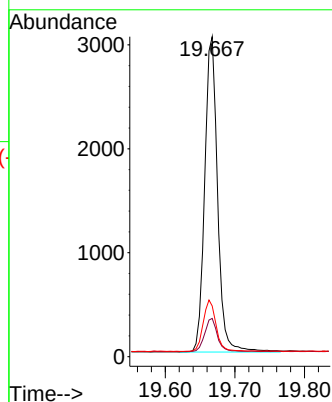
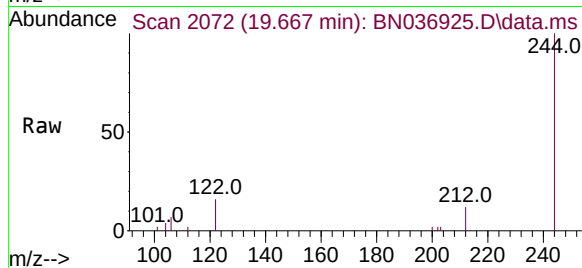




#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.667 min Scan# 2072
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

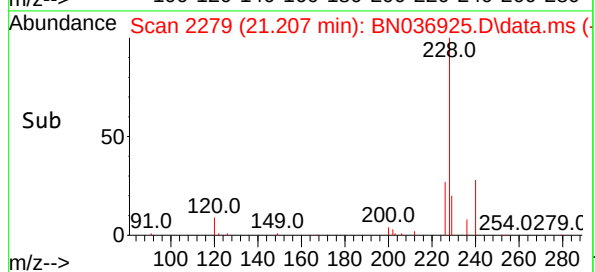
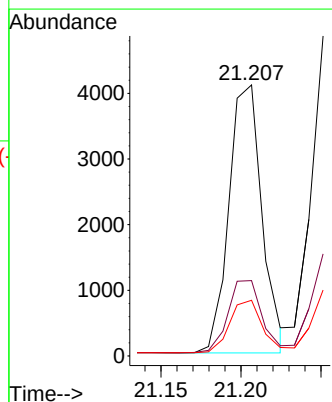
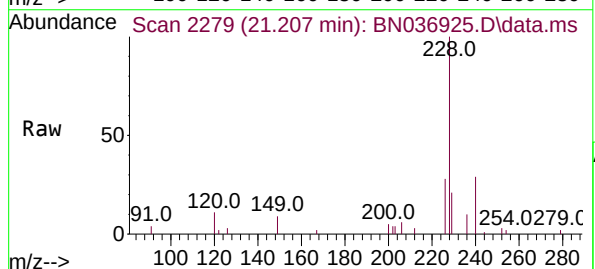
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

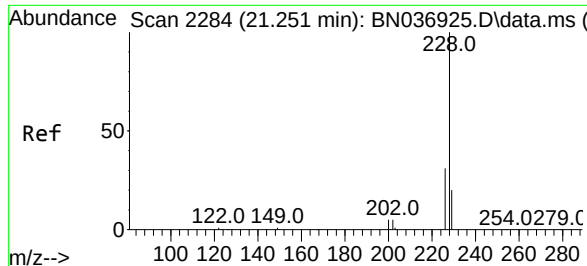
Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.6	14.4
122	15.9	12.7	19.1



#32
Benzo(a)anthracene
Concen: 0.392 ng
RT: 21.207 min Scan# 2279
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.2	33.4
229	20.5	16.4	24.6





#33

Chrysene

Concen: 0.410 ng

RT: 21.251 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

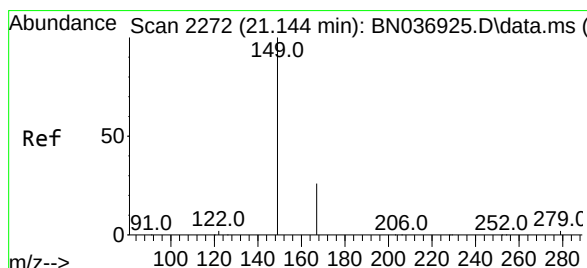
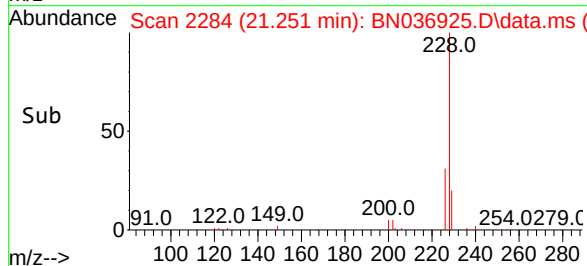
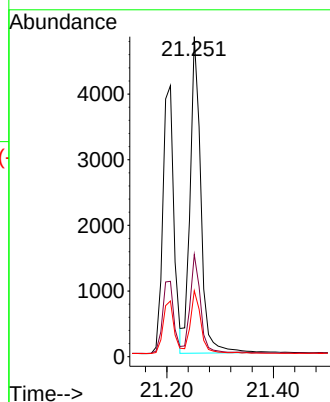
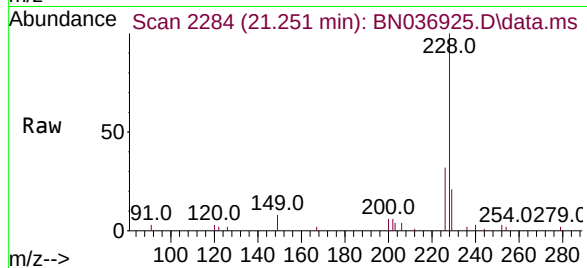
Tgt Ion:228 Resp: 6742

Ion Ratio Lower Upper

228 100

226 31.9 25.5 38.3

229 20.6 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.400 ng

RT: 21.144 min Scan# 2272

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

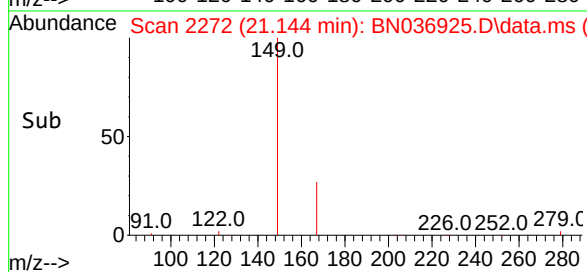
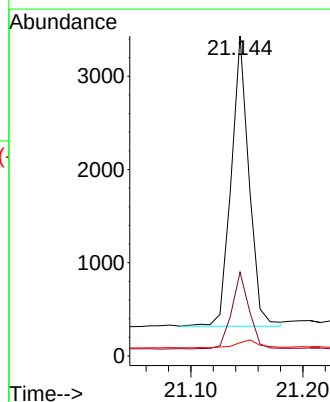
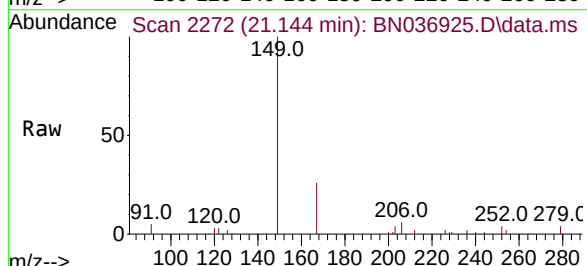
Tgt Ion:149 Resp: 3434

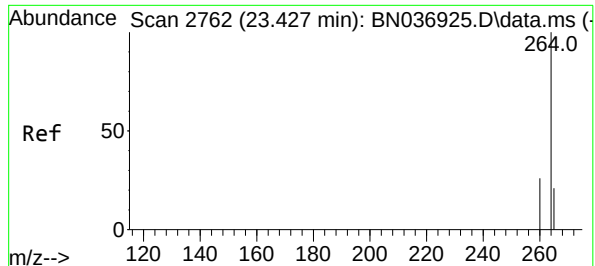
Ion Ratio Lower Upper

149 100

167 26.1 21.0 31.6

279 3.4 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.427 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

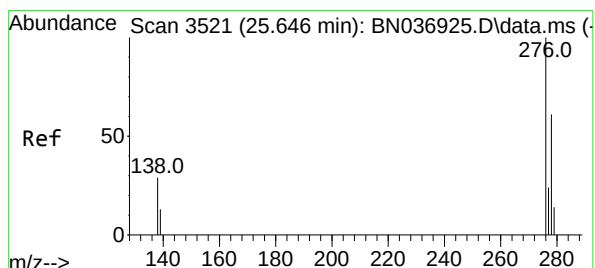
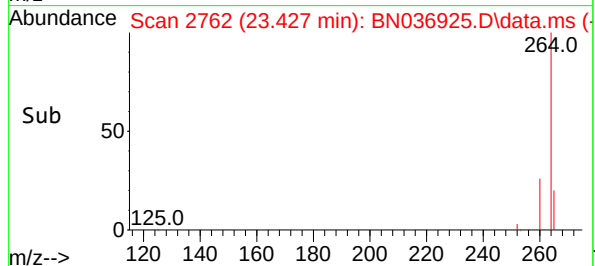
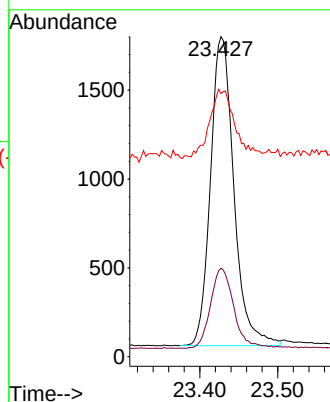
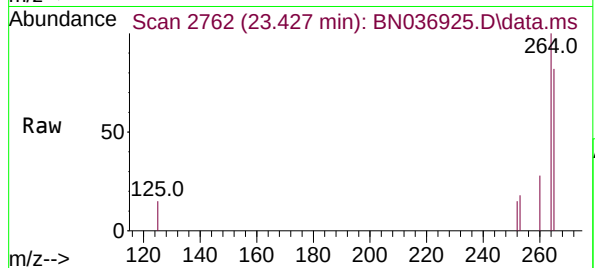
Tgt Ion:264 Resp: 3630

Ion Ratio Lower Upper

264 100

260 27.7 22.2 33.2

265 82.2 65.8 98.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.418 ng

RT: 25.646 min Scan# 3521

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

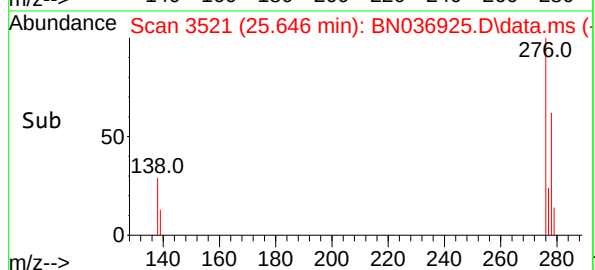
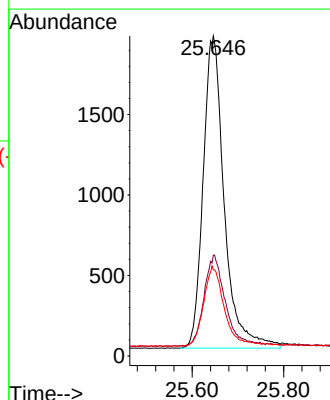
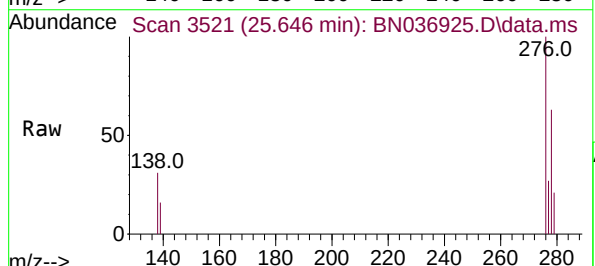
Tgt Ion:276 Resp: 6214

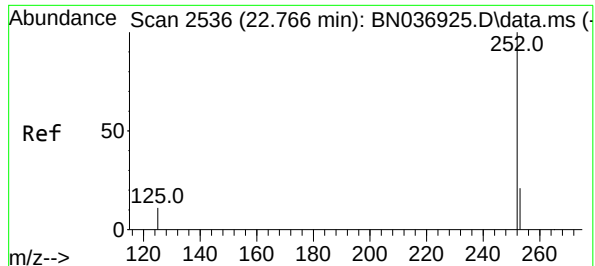
Ion Ratio Lower Upper

276 100

138 28.8 23.0 34.6

277 25.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.394 ng

RT: 22.766 min Scan# 2536

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

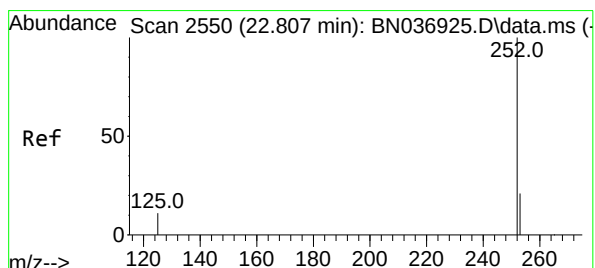
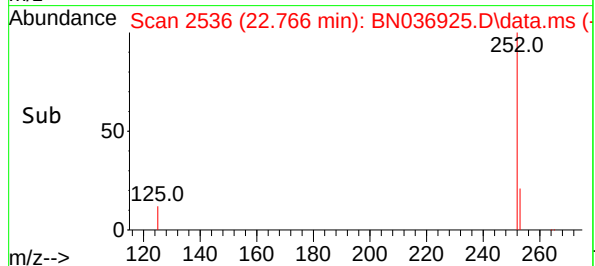
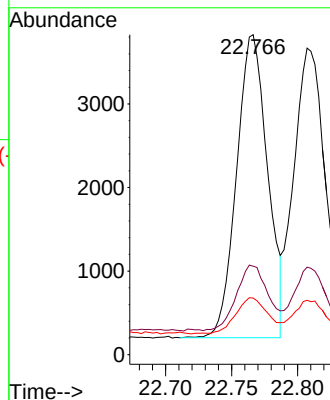
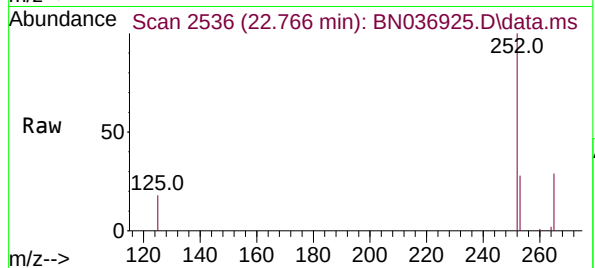
Tgt Ion:252 Resp: 5932

Ion Ratio Lower Upper

252 100

253 27.6 22.1 33.1

125 17.7 14.2 21.2



#38

Benzo(k)fluoranthene

Concen: 0.393 ng

RT: 22.807 min Scan# 2550

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

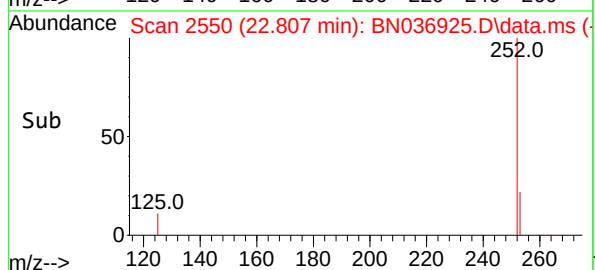
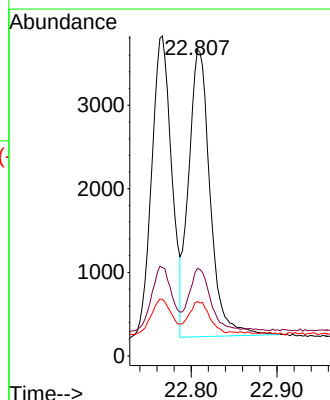
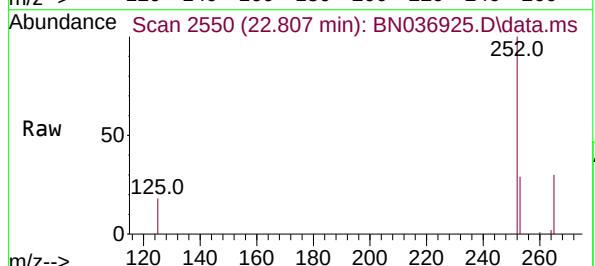
Tgt Ion:252 Resp: 5983

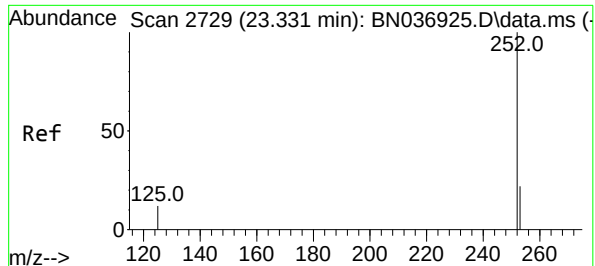
Ion Ratio Lower Upper

252 100

253 28.5 22.8 34.2

125 17.7 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.398 ng

RT: 23.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

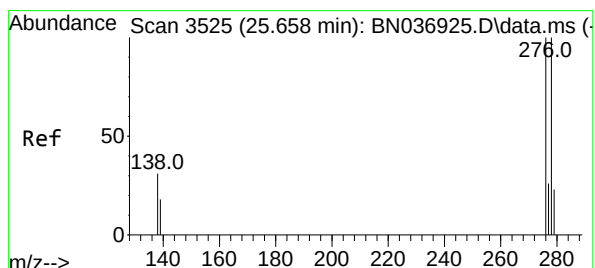
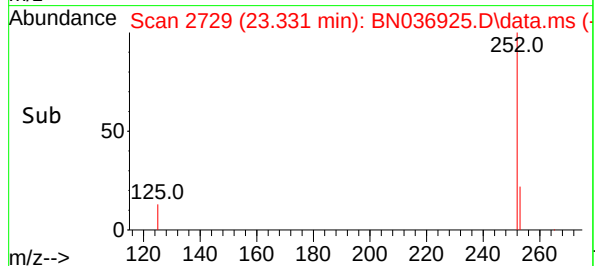
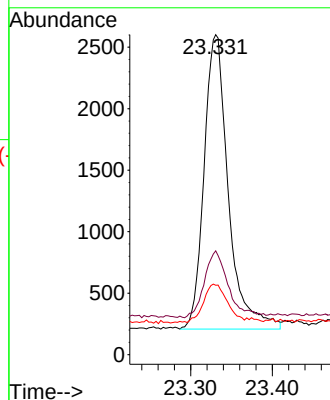
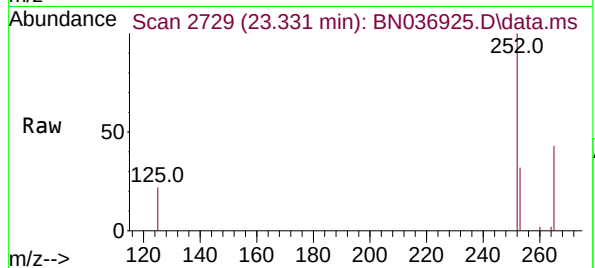
Tgt Ion:252 Resp: 4940

Ion Ratio Lower Upper

252 100

253 32.4 25.9 38.9

125 21.7 17.4 26.0



#40

Dibenzo(a,h)anthracene

Concen: 0.419 ng

RT: 25.658 min Scan# 3525

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

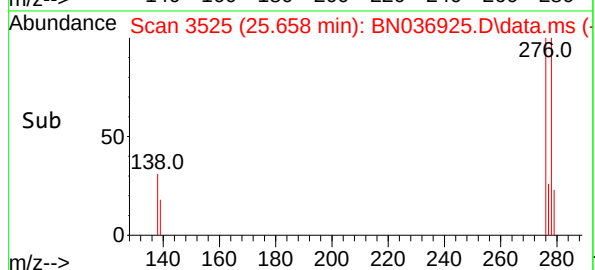
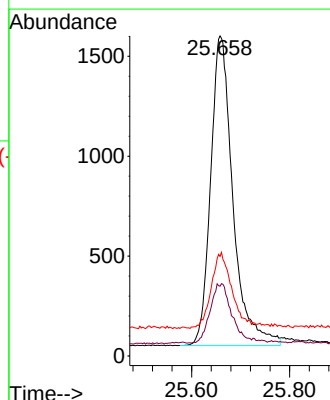
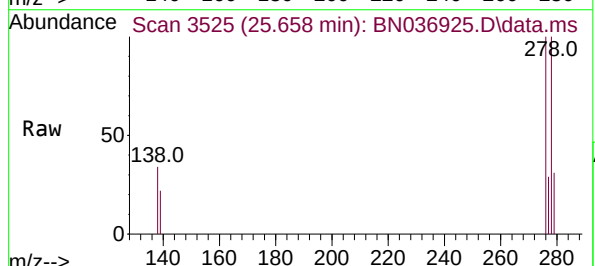
Tgt Ion:278 Resp: 4897

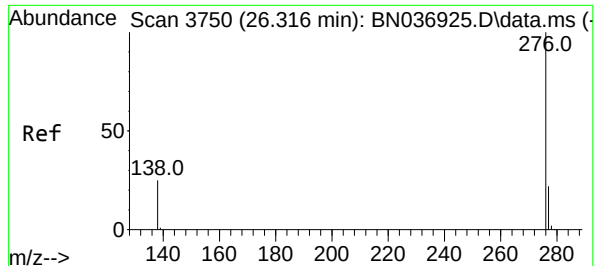
Ion Ratio Lower Upper

278 100

139 21.8 17.4 26.2

279 31.1 24.9 37.3





#41

Benzo(g,h,i)perylene

Concen: 0.420 ng

RT: 26.316 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN036925.D

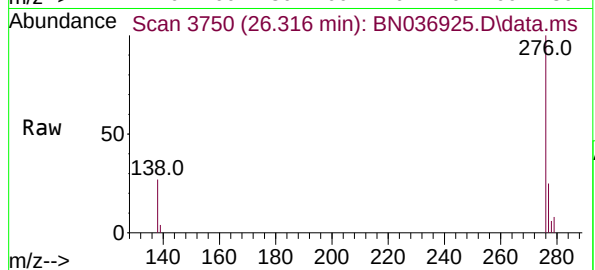
Acq: 28 Apr 2025 12:47

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



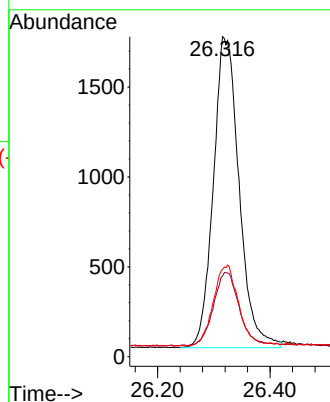
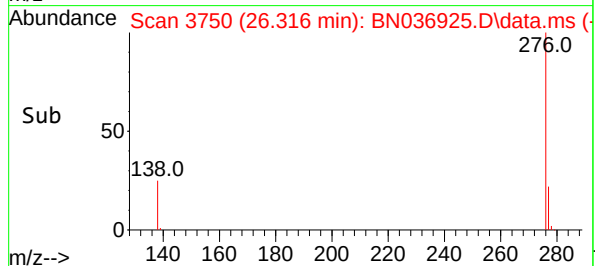
Tgt Ion:276 Resp: 5500

Ion Ratio Lower Upper

276 100

277 25.2 20.2 30.2

138 27.4 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036926.D
 Acq On : 28 Apr 2025 13:24
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Apr 28 15:13:14 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:11:09 2025
 Response via : Initial Calibration

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

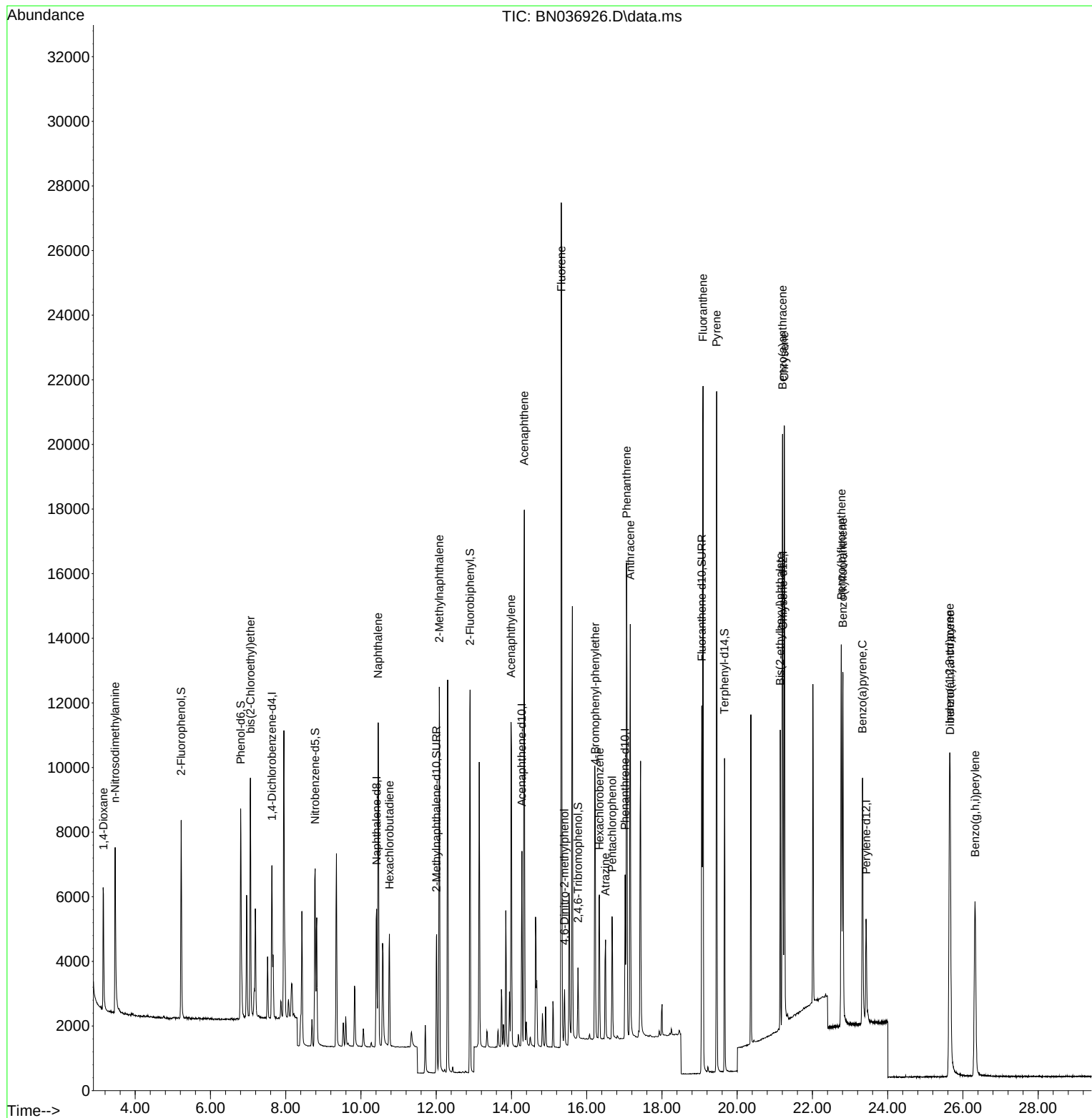
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2230	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	5489	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3040	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	6101	0.400	ng	0.00
29) Chrysene-d12	21.215	240	4993	0.400	ng	0.00
35) Perylene-d12	23.427	264	4243	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	4217	0.733	ng	0.00
5) Phenol-d6	6.802	99	5133	0.732	ng	0.00
8) Nitrobenzene-d5	8.781	82	4432	0.777	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	5965	0.784	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	1061	0.796	ng	0.00
15) 2-Fluorobiphenyl	12.899	172	10275	0.699	ng	0.00
27) Fluoranthene-d10	19.059	212	12399	0.794	ng	0.00
31) Terphenyl-d14	19.663	244	8916	0.750	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.155	88	2257	0.801	ng	97
3) n-Nitrosodimethylamine	3.465	42	4269	0.785	ng	# 97
6) bis(2-Chloroethyl)ether	7.062	93	5078	0.780	ng	99
9) Naphthalene	10.458	128	12423	0.778	ng	99
10) Hexachlorobutadiene	10.757	225	2738	0.786	ng	# 98
12) 2-Methylnaphthalene	12.082	142	8066	0.789	ng	100
16) Acenaphthylene	13.989	152	11455	0.778	ng	100
17) Acenaphthene	14.341	154	7590	0.780	ng	99
18) Fluorene	15.325	166	10080	0.795	ng	98
20) 4,6-Dinitro-2-methylph...	15.410	198	1166	0.763	ng	# 65
21) 4-Bromophenyl-phenylether	16.227	248	3169	0.780	ng	94
22) Hexachlorobenzene	16.338	284	3420	0.762	ng	99
23) Atrazine	16.500	200	2644	0.825	ng	94
24) Pentachlorophenol	16.673	266	1767	0.758	ng	99
25) Phenanthrene	17.058	178	15621	0.778	ng	100
26) Anthracene	17.157	178	13888	0.774	ng	100
28) Fluoranthene	19.091	202	17952	0.808	ng	99
30) Pyrene	19.453	202	17990	0.741	ng	100
32) Benzo(a)anthracene	21.206	228	14201	0.780	ng	99
33) Chrysene	21.251	228	15802	0.792	ng	99
34) Bis(2-ethylhexyl)phtha...	21.144	149	7831	0.753	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.643	276	12758	0.734	ng	100
37) Benzo(b)fluoranthene	22.766	252	13818	0.786	ng	93
38) Benzo(k)fluoranthene	22.807	252	13927	0.783	ng	93
39) Benzo(a)pyrene	23.330	252	11160	0.770	ng	# 89
40) Dibenzo(a,h)anthracene	25.661	278	9982	0.730	ng	95
41) Benzo(g,h,i)perylene	26.321	276	11072	0.724	ng	99

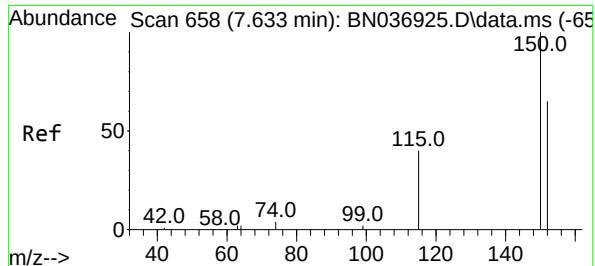
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036926.D
Acq On : 28 Apr 2025 13:24
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

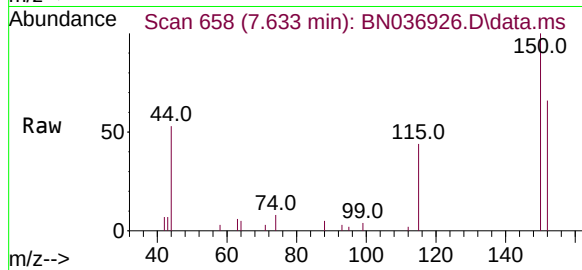
Quant Time: Apr 28 15:13:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration



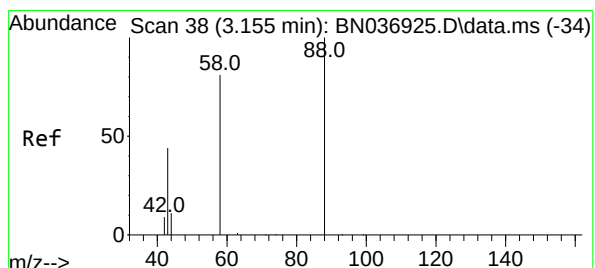
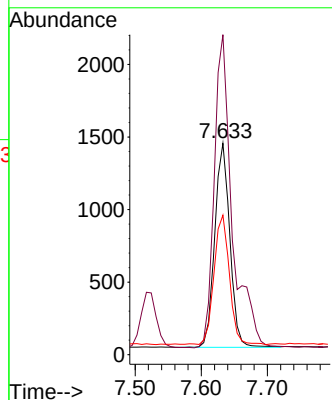
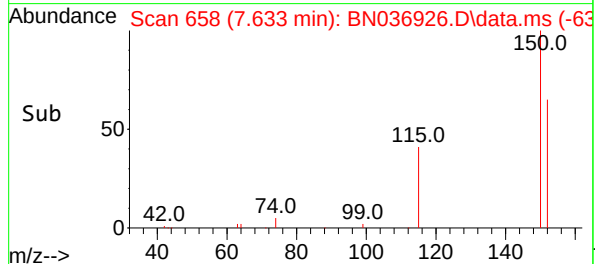


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

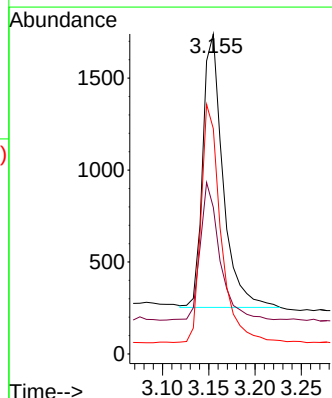
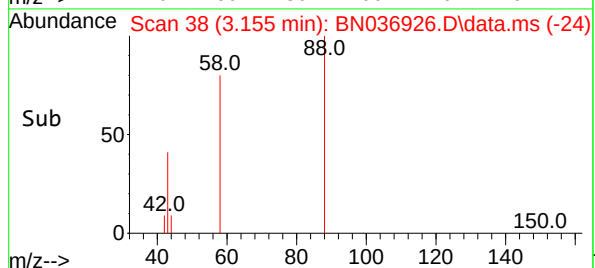
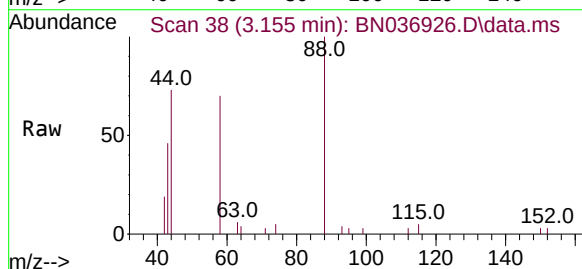


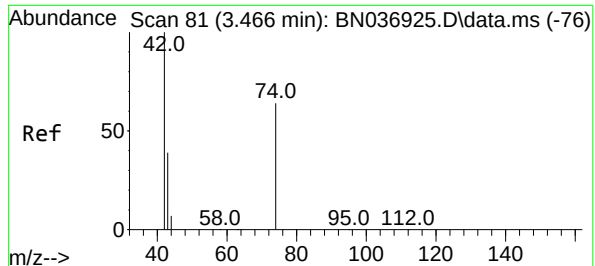
Tgt Ion:152 Resp: 2230
Ion Ratio Lower Upper
152 100
150 151.3 121.1 181.7
115 66.0 51.8 77.6



#2
1,4-Dioxane
Concen: 0.801 ng
RT: 3.155 min Scan# 38
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion: 88 Resp: 2257
Ion Ratio Lower Upper
88 100
43 49.0 37.9 56.9
58 85.8 65.8 98.6

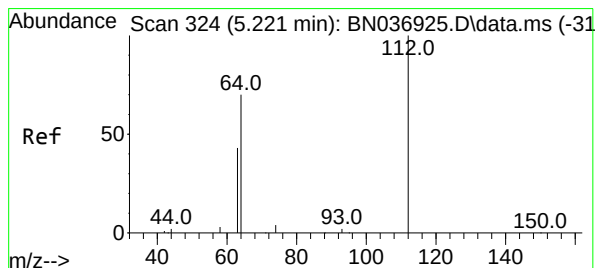
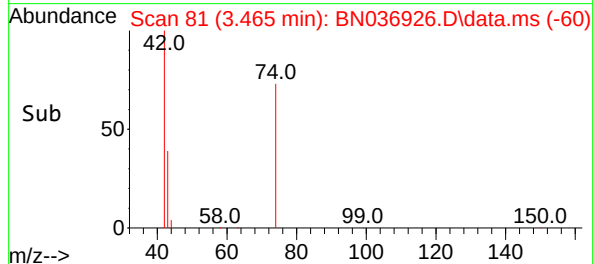
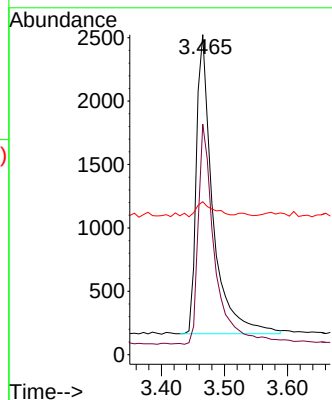
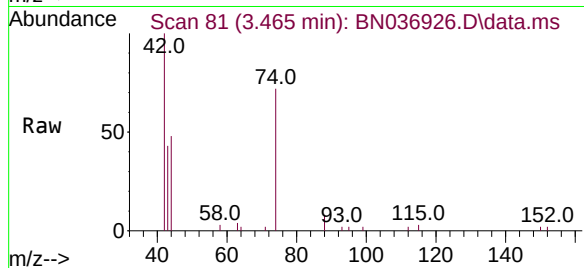




#3
n-Nitrosodimethylamine
Concen: 0.785 ng
RT: 3.465 min Scan# 81
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

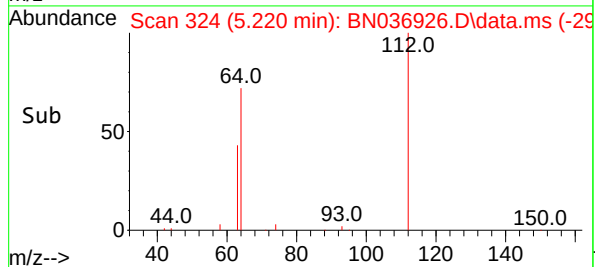
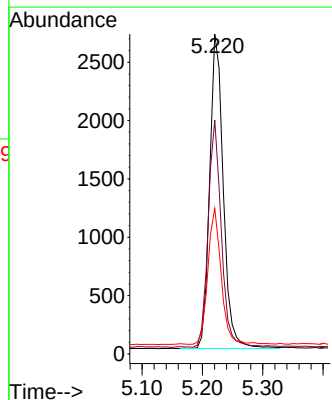
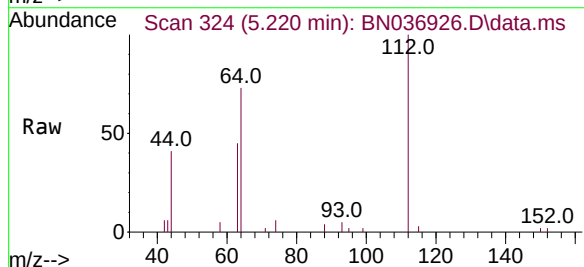
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

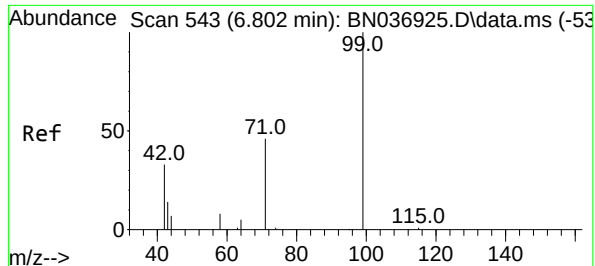
Tgt Ion: 42 Resp: 4269
Ion Ratio Lower Upper
42 100
74 72.8 59.9 89.9
44 5.2 7.5 11.3#



#4
2-Fluorophenol
Concen: 0.733 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion: 112 Resp: 4217
Ion Ratio Lower Upper
112 100
64 69.9 55.7 83.5
63 42.7 33.9 50.9

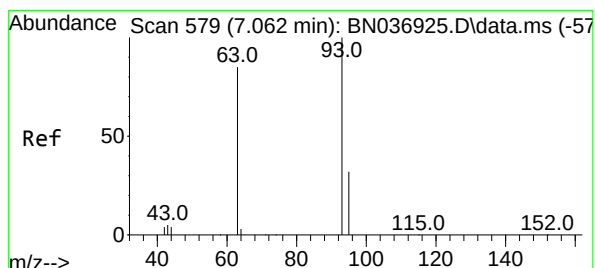
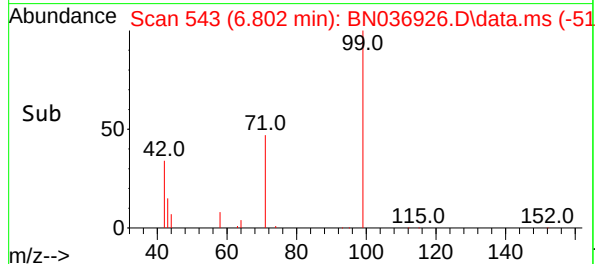
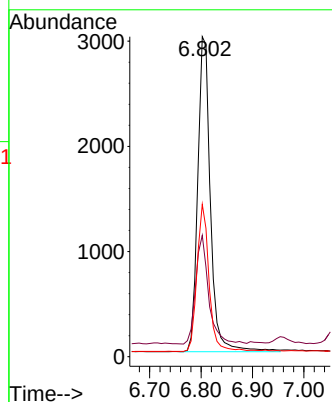
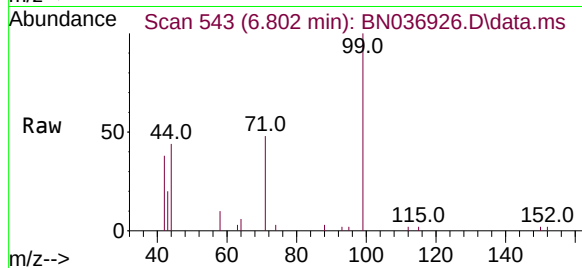




#5
Phenol-d6
Concen: 0.732 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

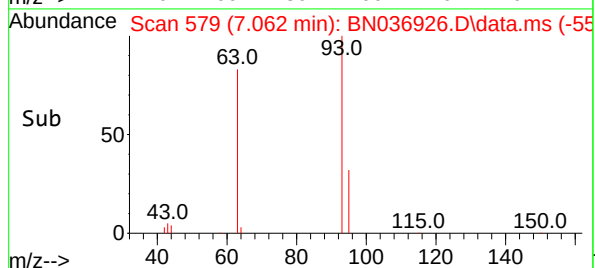
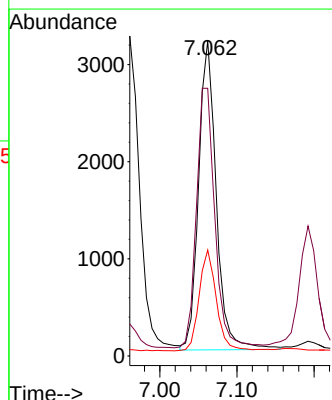
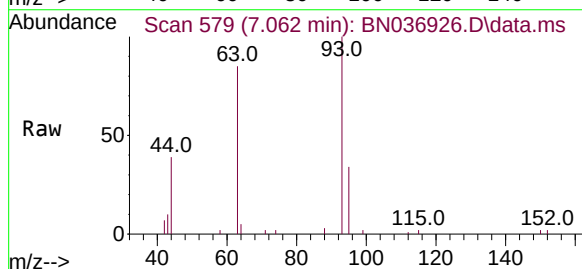
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

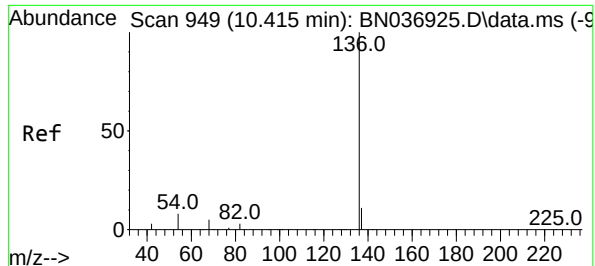
Tgt Ion: 99 Resp: 5133
Ion Ratio Lower Upper
99 100
42 35.2 29.6 44.4
71 44.7 36.0 54.0



#6
bis(2-Chloroethyl)ether
Concen: 0.780 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion: 93 Resp: 5078
Ion Ratio Lower Upper
93 100
63 87.5 69.0 103.6
95 31.9 25.4 38.0

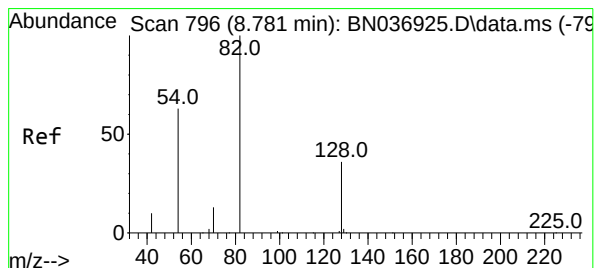
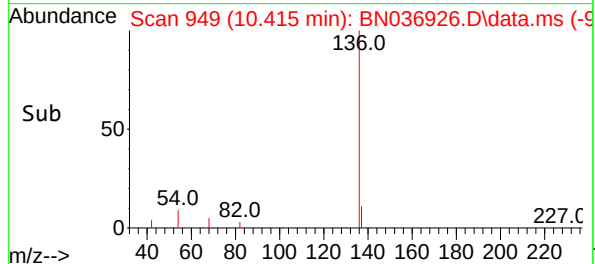
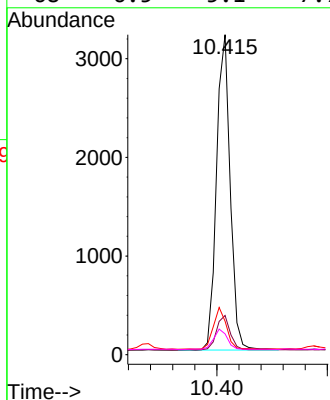
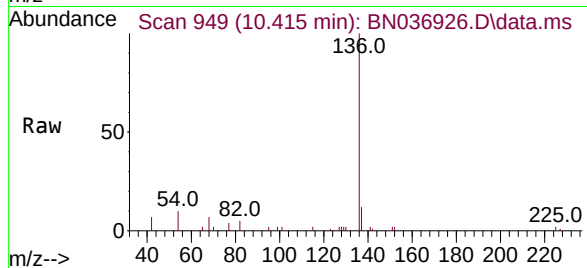




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

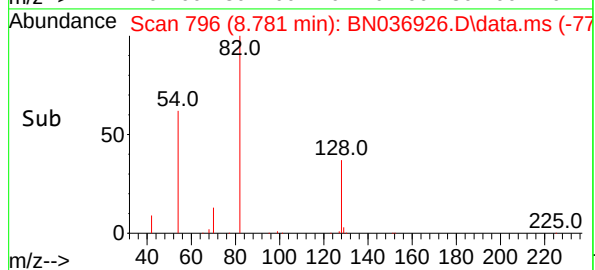
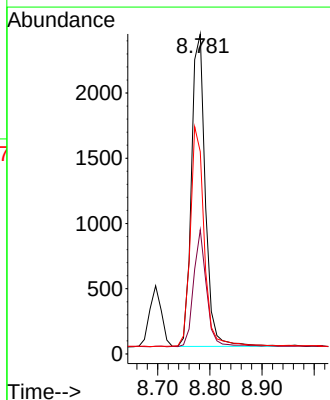
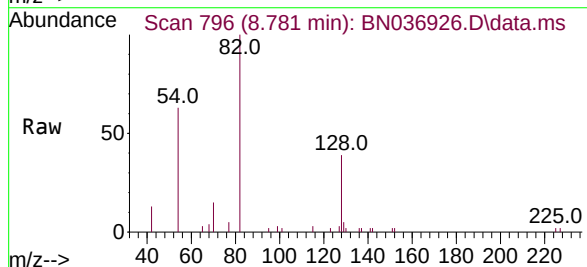
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

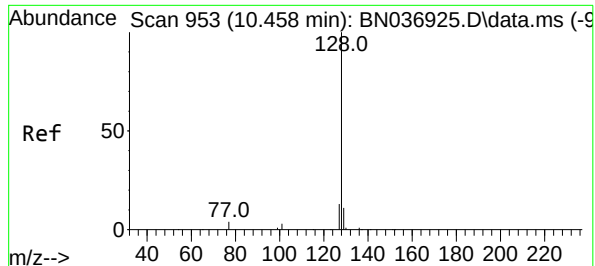
Tgt Ion:	136	Resp:	5489
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.7	14.5
54	10.5	8.0	12.0
68	6.5	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.777 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:	82	Resp:	4432
Ion	Ratio	Lower	Upper
82	100		
128	38.8	30.7	46.1
54	63.2	52.1	78.1

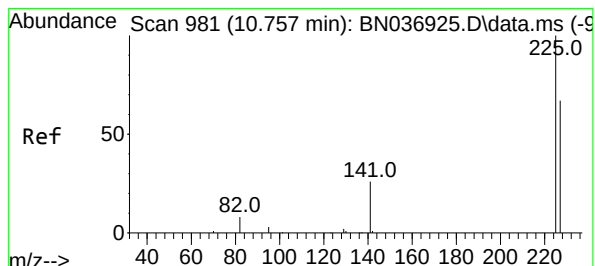
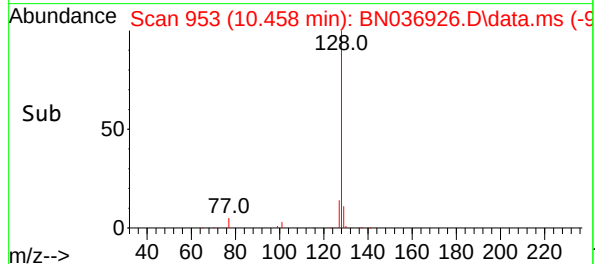
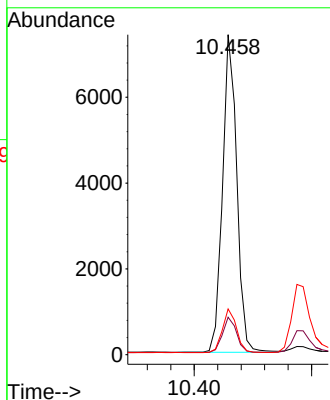
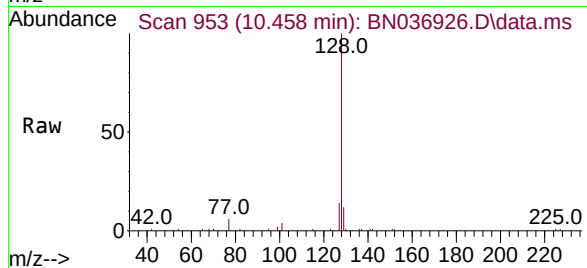




#9
Naphthalene
Concen: 0.778 ng
RT: 10.458 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

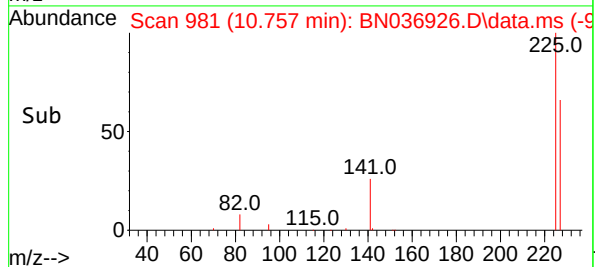
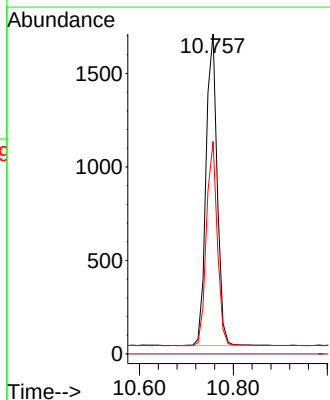
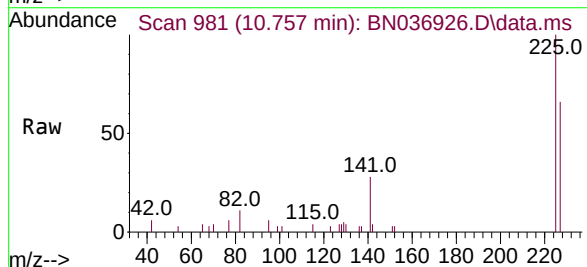
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

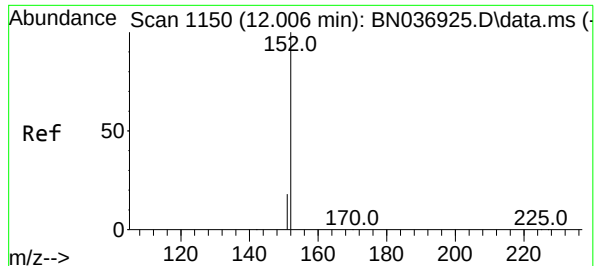
Tgt Ion	128	129	127
Resp:	12423		
Ion Ratio	100	11.7	14.3
Lower		9.8	11.4
Upper		14.6	17.2



#10
Hexachlorobutadiene
Concen: 0.786 ng
RT: 10.757 min Scan# 981
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion	225	223	227
Resp:	2738		
Ion Ratio	100	0.0	64.0
Lower		0.0	52.2
Upper		0.0	78.4

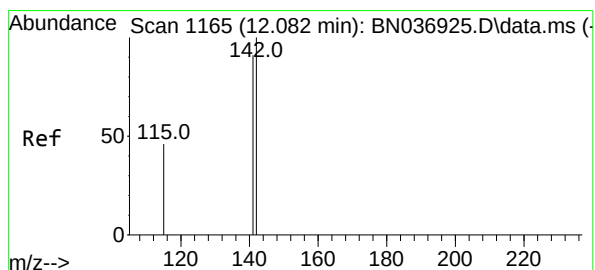
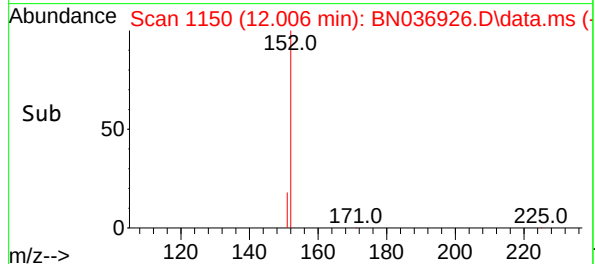
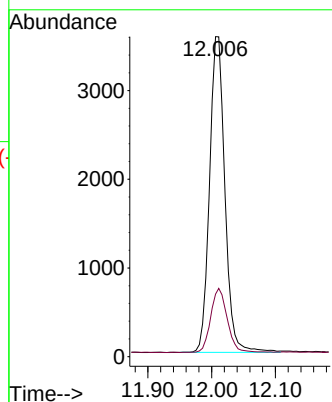
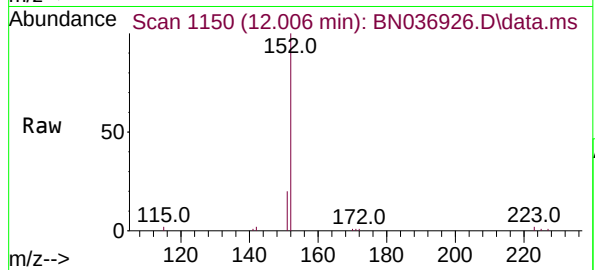




#11
2-Methylnaphthalene-d10
Concen: 0.784 ng
RT: 12.006 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

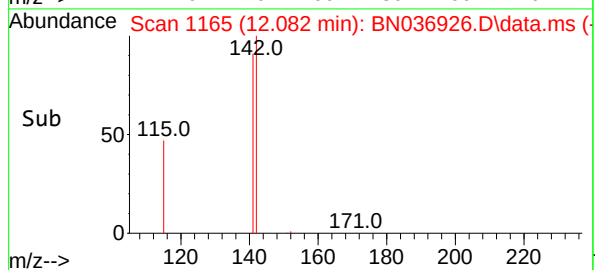
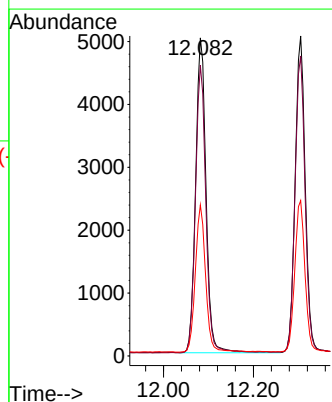
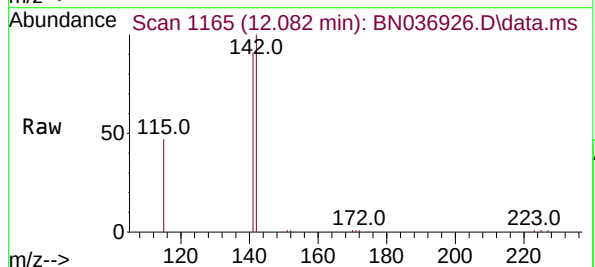
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

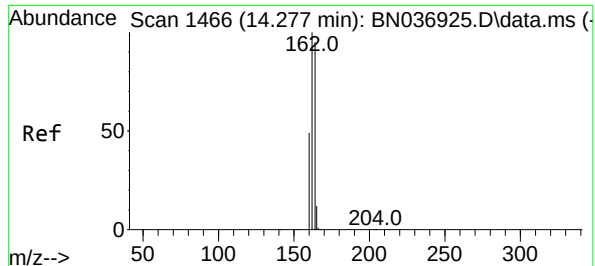
Tgt Ion:152 Resp: 5965
Ion Ratio Lower Upper
152 100
151 21.8 16.9 25.3



#12
2-Methylnaphthalene
Concen: 0.789 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:142 Resp: 8066
Ion Ratio Lower Upper
142 100
141 91.4 72.8 109.2
115 47.5 38.2 57.4

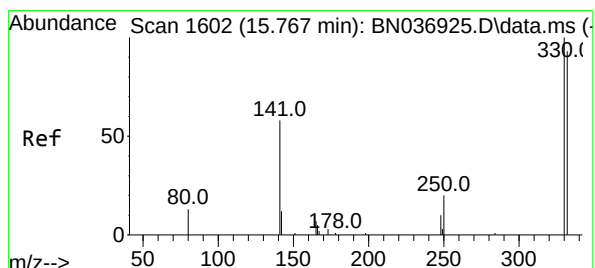
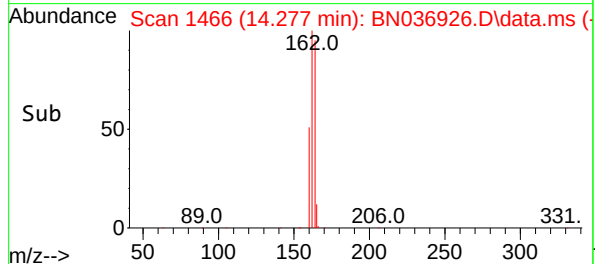
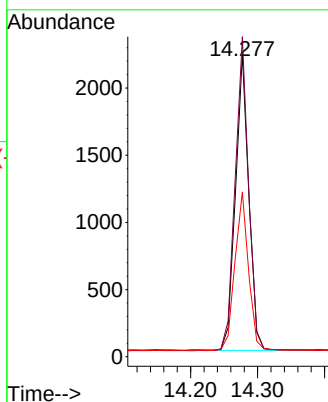
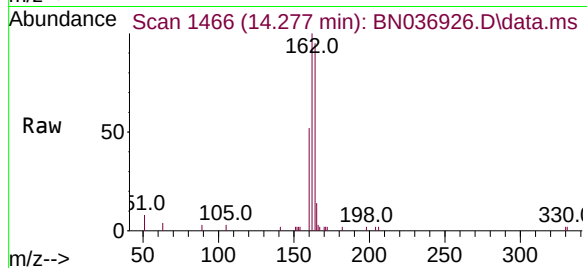




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

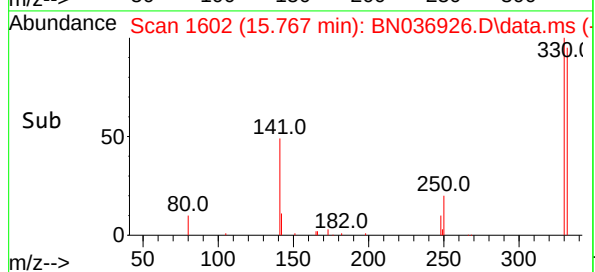
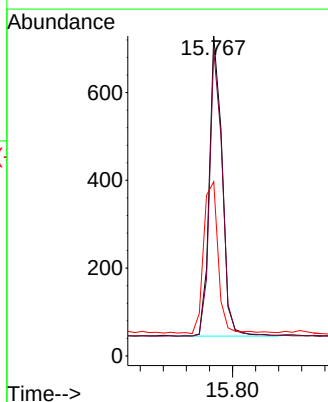
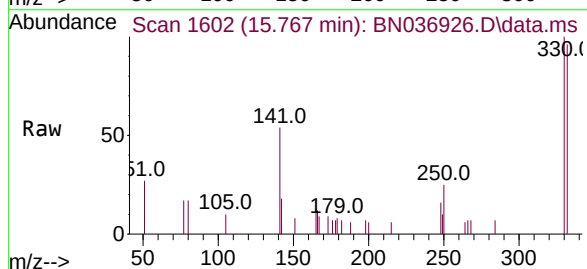
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

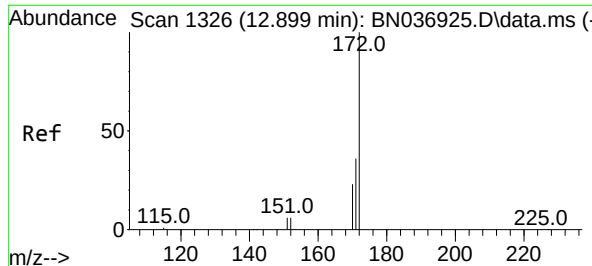
Tgt Ion:164 Resp: 3040
Ion Ratio Lower Upper
164 100
162 105.7 83.8 125.8
160 54.5 42.0 63.0



#14
2,4,6-Tribromophenol
Concen: 0.796 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:330 Resp: 1061
Ion Ratio Lower Upper
330 100
332 95.2 76.3 114.5
141 56.7 45.4 68.2

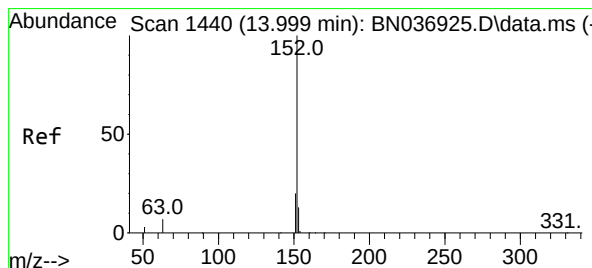
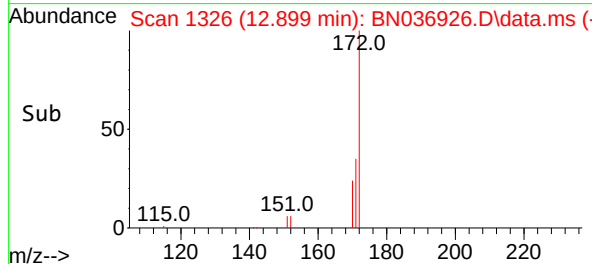
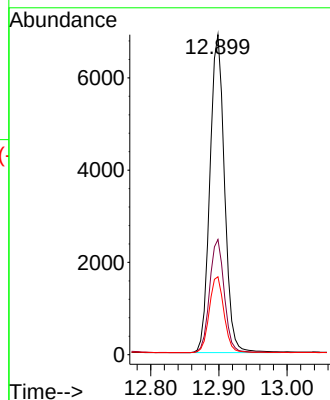
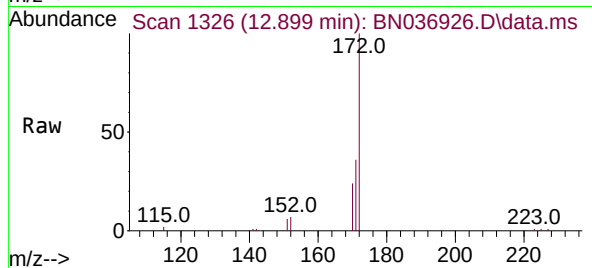




#15
2-Fluorobiphenyl
Concen: 0.699 ng
RT: 12.899 min Scan# 1438
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

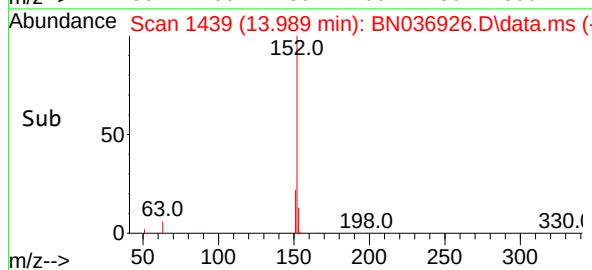
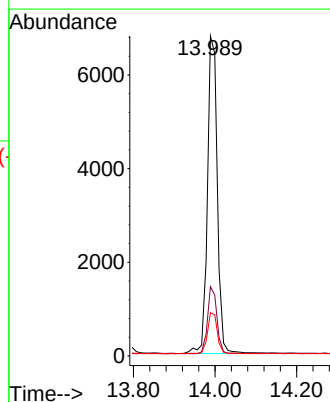
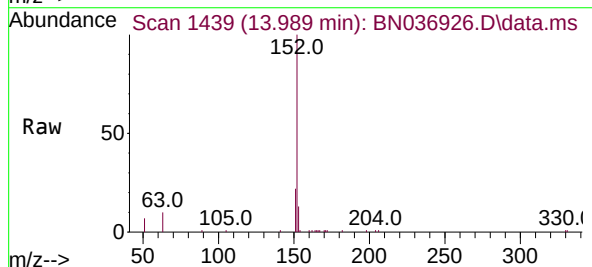
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

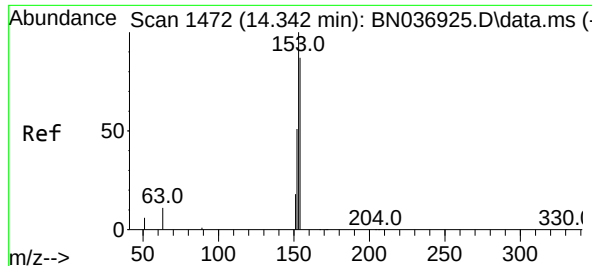
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.4	44.0
170	24.3	19.4	29.0



#16
Acenaphthylene
Concen: 0.778 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0
153	12.9	10.2	15.2

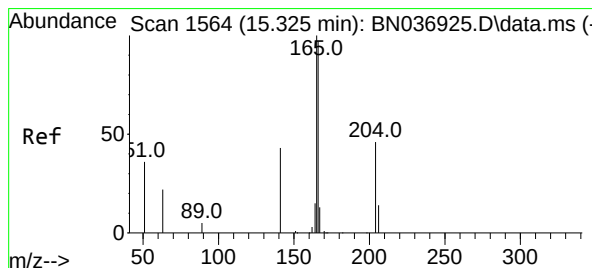
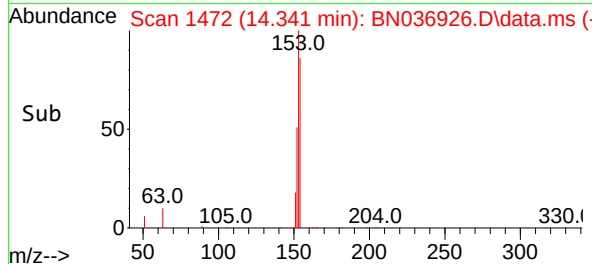
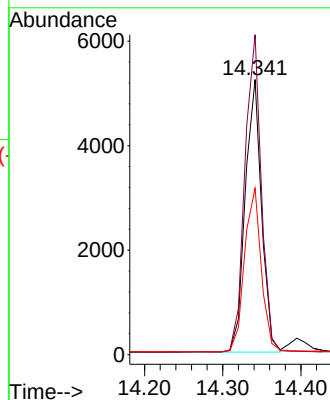
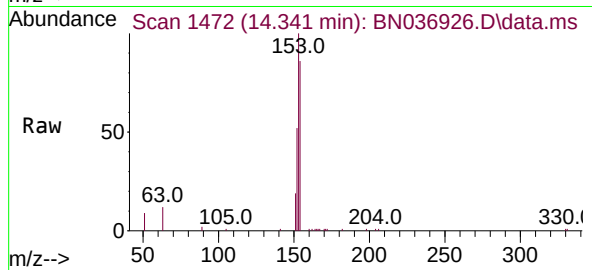




#17
Acenaphthene
Concen: 0.780 ng
RT: 14.341 min Scan# 1472
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

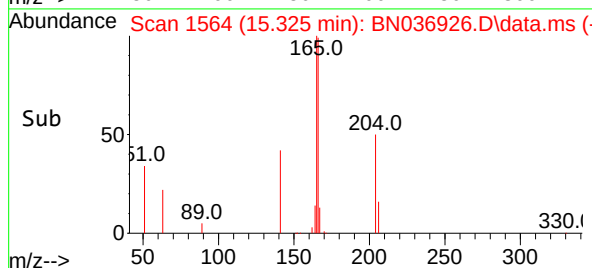
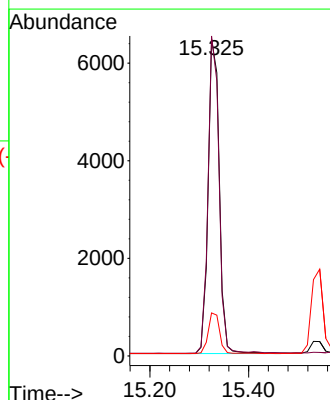
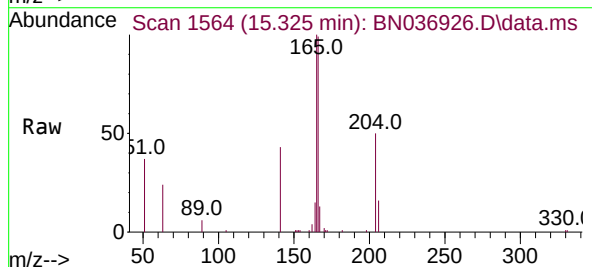
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

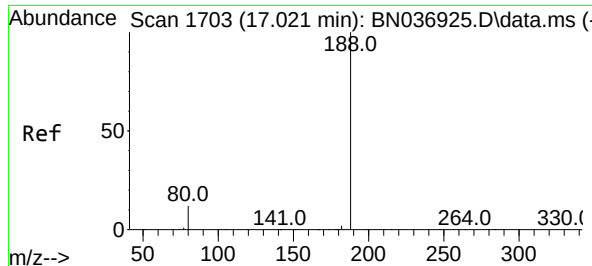
Tgt Ion:154 Resp: 7590
Ion Ratio Lower Upper
154 100
153 117.5 93.4 140.2
152 62.1 49.5 74.3



#18
Fluorene
Concen: 0.795 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:166 Resp: 10080
Ion Ratio Lower Upper
166 100
165 99.0 80.8 121.2
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

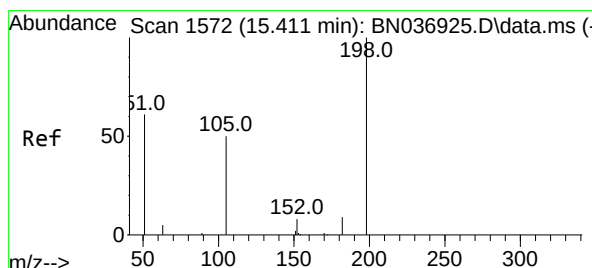
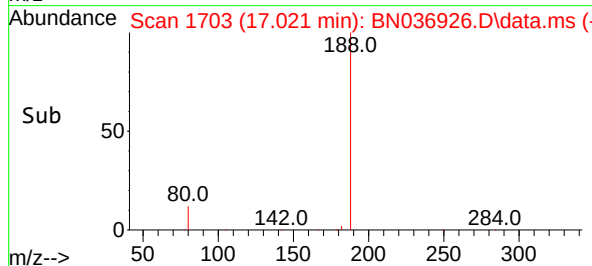
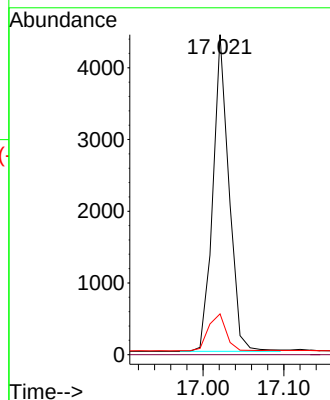
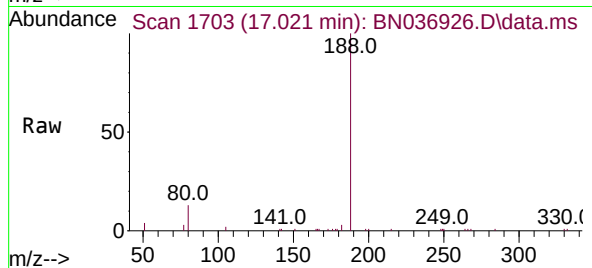
Tgt Ion:188 Resp: 6101

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.8 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 0.763 ng

RT: 15.410 min Scan# 1572

Delta R.T. -0.001 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

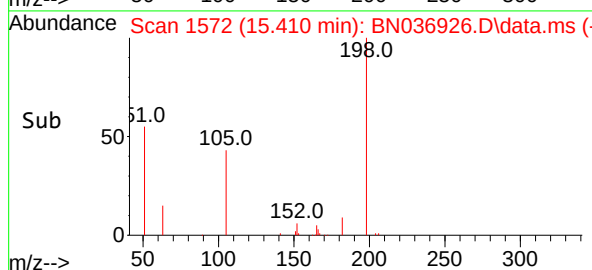
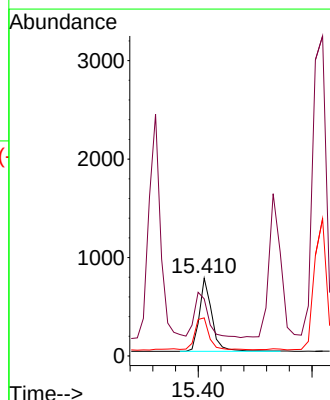
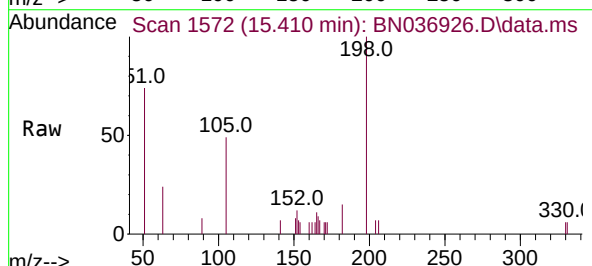
Tgt Ion:198 Resp: 1166

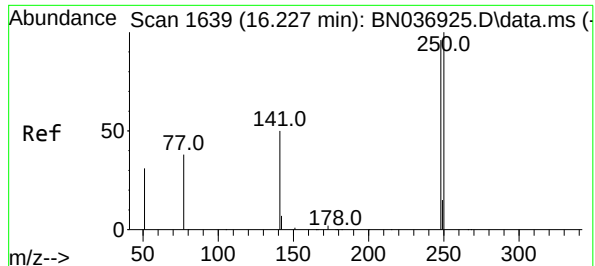
Ion Ratio Lower Upper

198 100

51 73.5 97.9 146.9#

105 48.9 50.0 75.0#

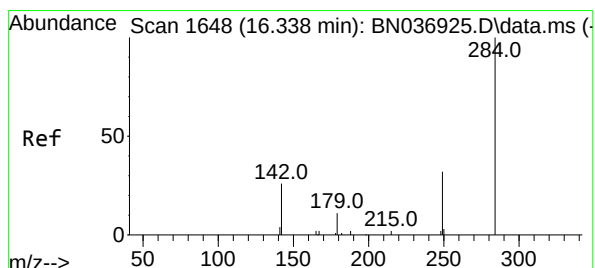
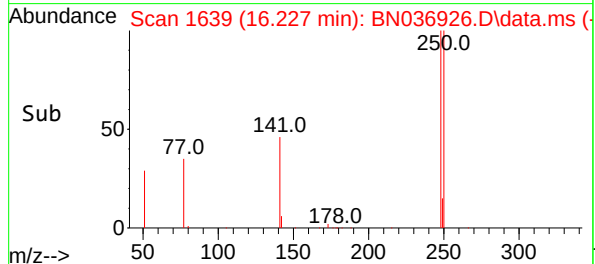
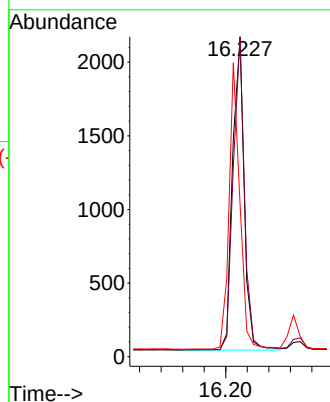
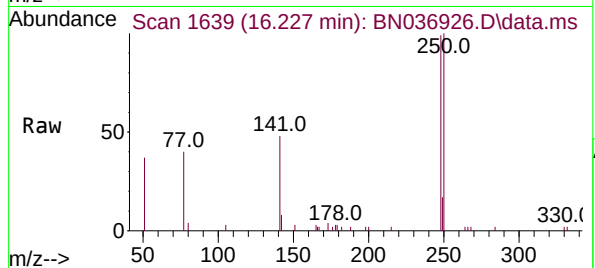




#21
4-Bromophenyl-phenylether
Concen: 0.780 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

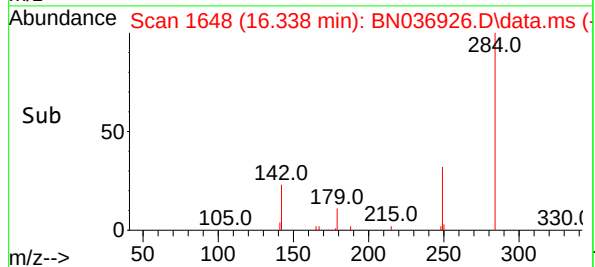
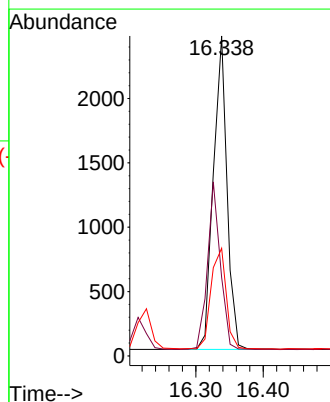
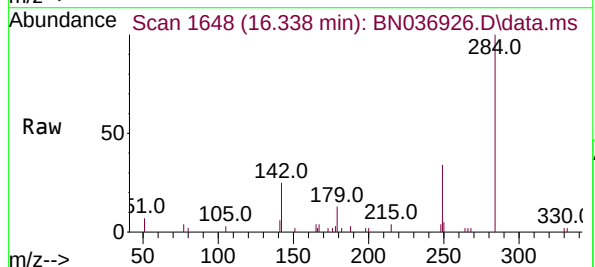
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

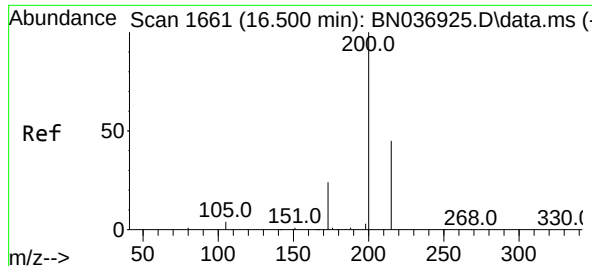
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.6	83.7	125.5
141	48.1	43.8	65.8



#22
Hexachlorobenzene
Concen: 0.762 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion	Ratio	Lower	Upper
284	100		
142	50.9	40.0	60.0
249	36.1	28.2	42.2

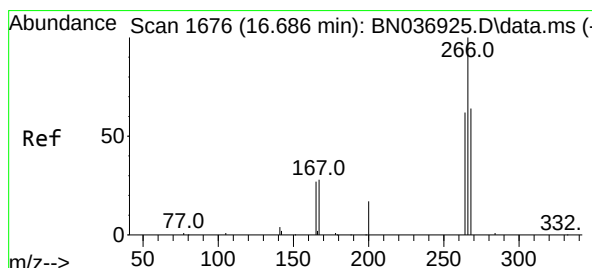
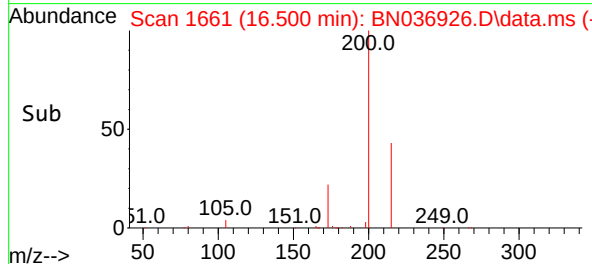
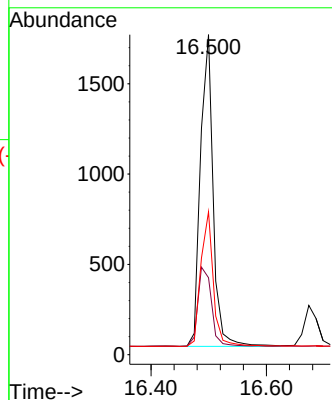
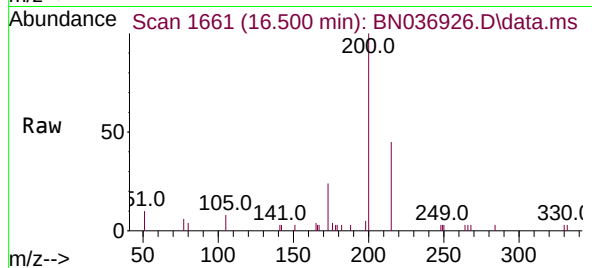




#23
Atrazine
Concen: 0.825 ng
RT: 16.500 min Scan# 1661
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

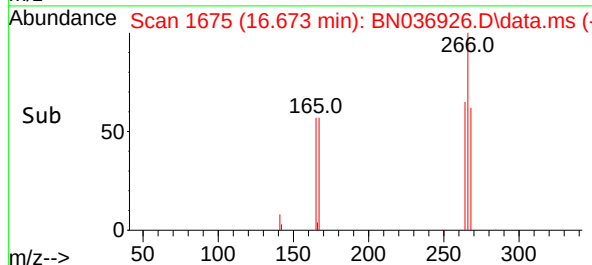
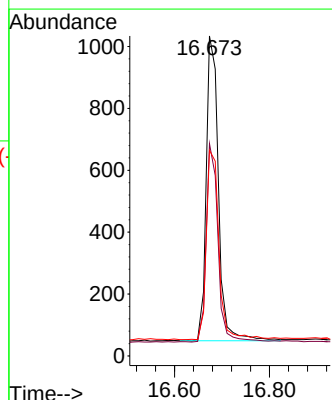
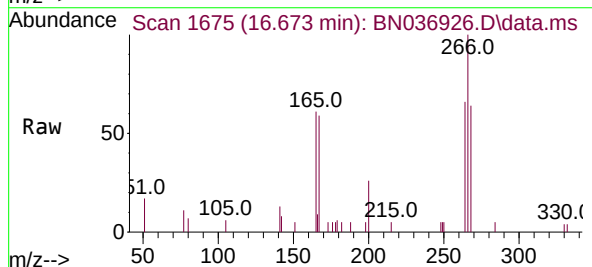
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

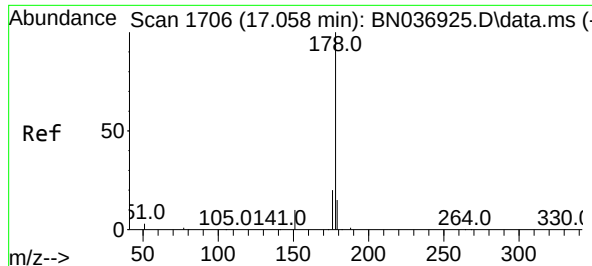
Tgt Ion:200 Resp: 2644
Ion Ratio Lower Upper
200 100
173 24.0 22.4 33.6
215 44.6 38.6 57.8



#24
Pentachlorophenol
Concen: 0.758 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.013 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:266 Resp: 1767
Ion Ratio Lower Upper
266 100
264 62.5 49.9 74.9
268 64.1 52.2 78.4

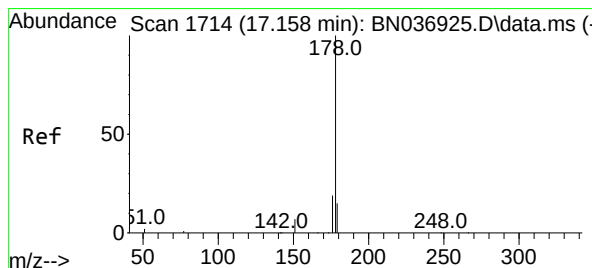
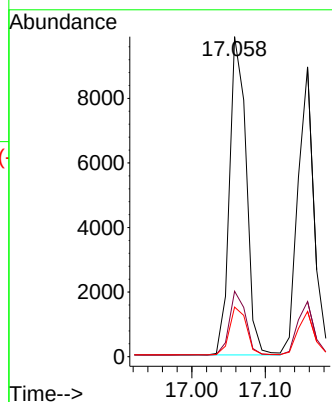
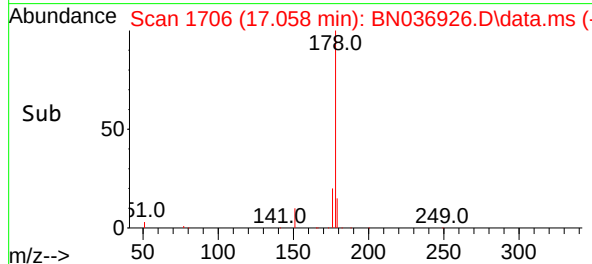
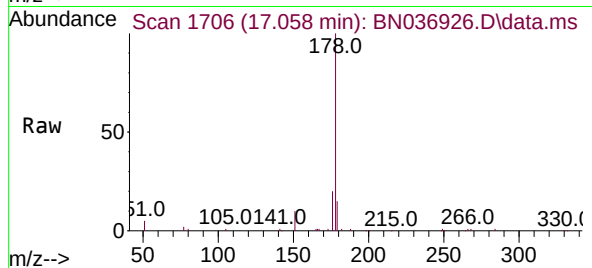




#25
Phenanthrene
Concen: 0.778 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

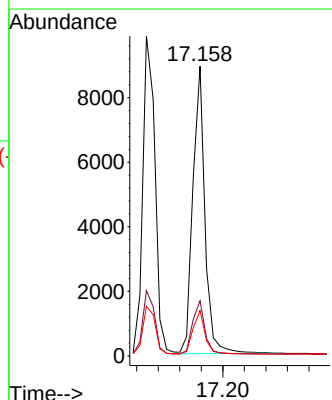
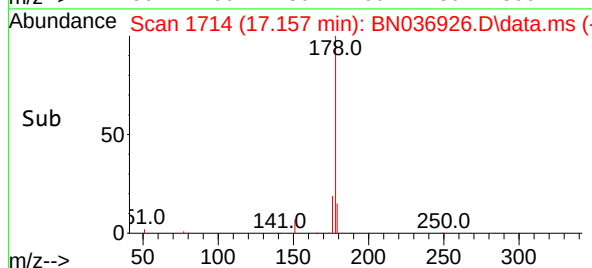
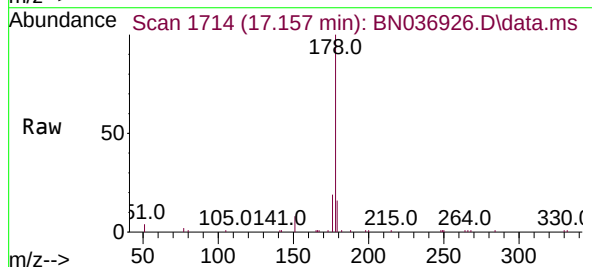
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

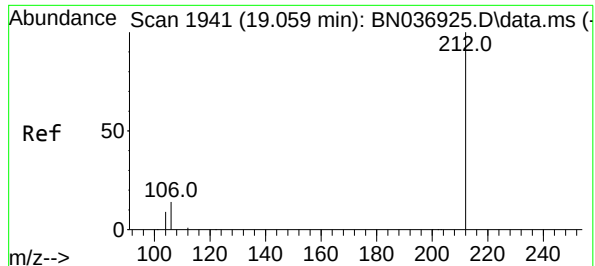
Tgt Ion:178 Resp: 15621
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.2 12.4 18.6



#26
Anthracene
Concen: 0.774 ng
RT: 17.157 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:178 Resp: 13888
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.1 12.1 18.1





#27

Fluoranthene-d10

Concen: 0.794 ng

RT: 19.059 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

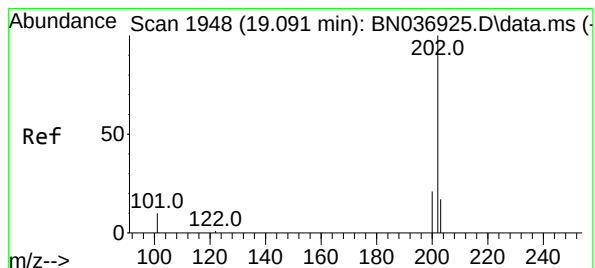
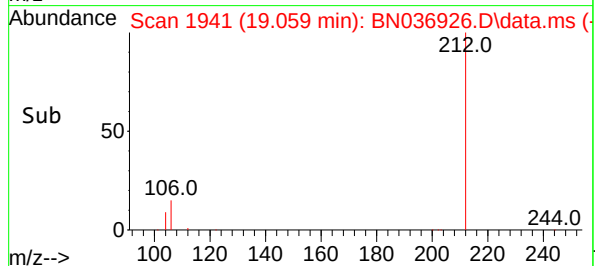
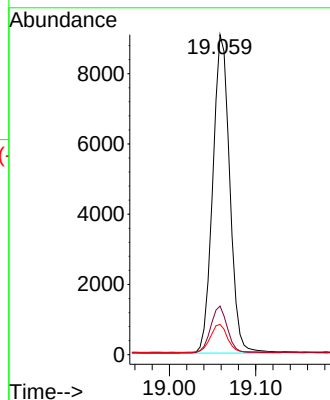
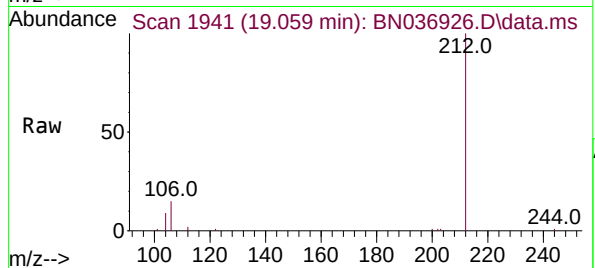
Tgt Ion:212 Resp: 12399

Ion Ratio Lower Upper

212 100

106 14.4 11.6 17.4

104 9.0 7.0 10.4



#28

Fluoranthene

Concen: 0.808 ng

RT: 19.091 min Scan# 1948

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

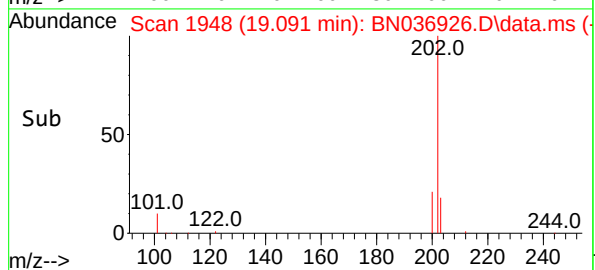
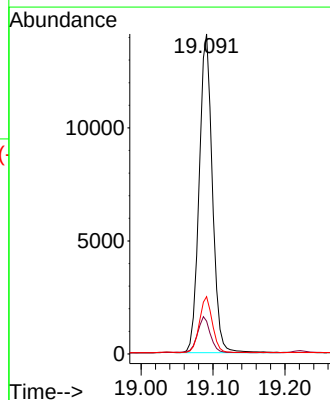
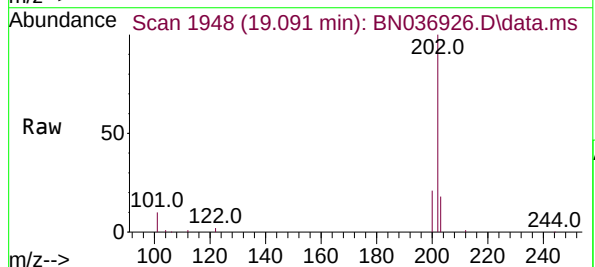
Tgt Ion:202 Resp: 17952

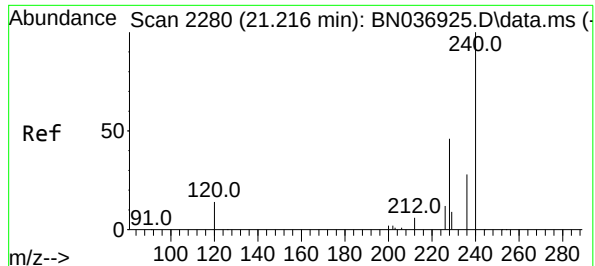
Ion Ratio Lower Upper

202 100

101 11.1 8.5 12.7

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.215 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

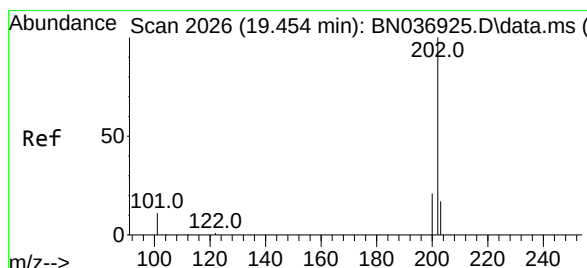
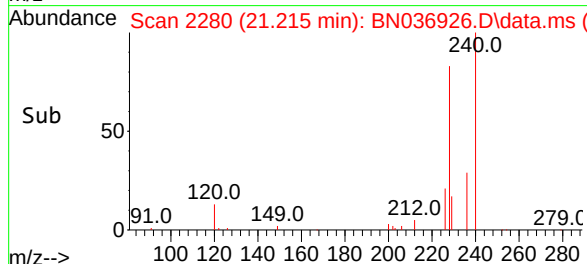
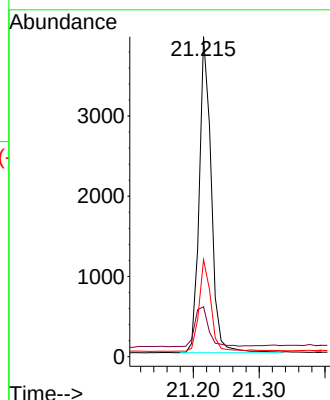
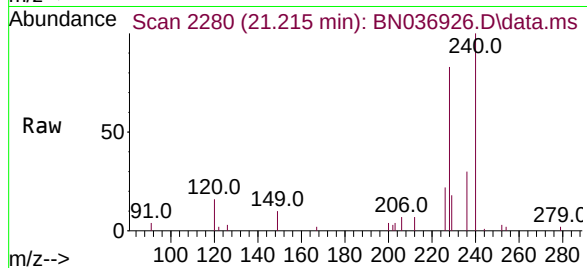
Tgt Ion:240 Resp: 4993

Ion Ratio Lower Upper

240 100

120 15.6 14.1 21.1

236 30.3 23.8 35.8



#30

Pyrene

Concen: 0.741 ng

RT: 19.453 min Scan# 2026

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

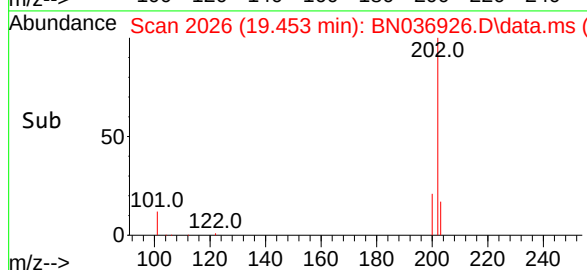
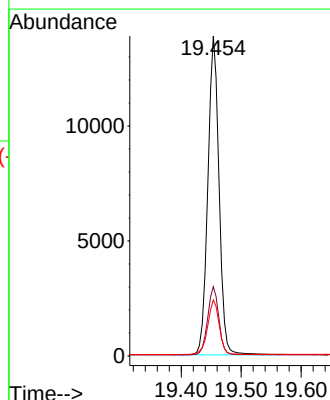
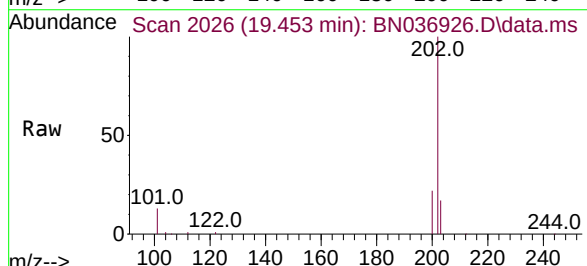
Tgt Ion:202 Resp: 17990

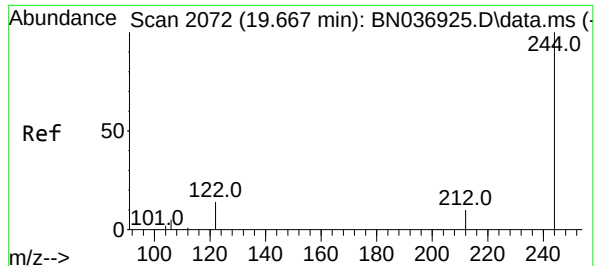
Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.6

203 17.7 14.0 21.0





#31

Terphenyl-d14

Concen: 0.750 ng

RT: 19.663 min Scan# 2071

Delta R.T. -0.005 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

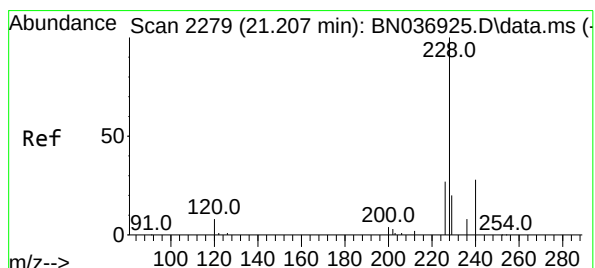
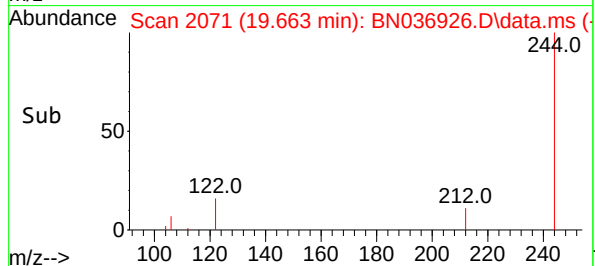
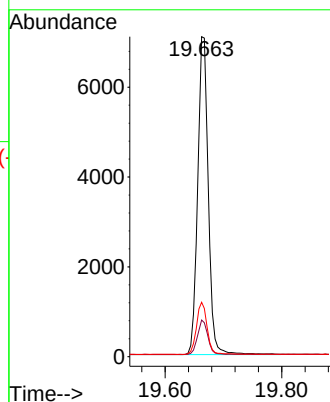
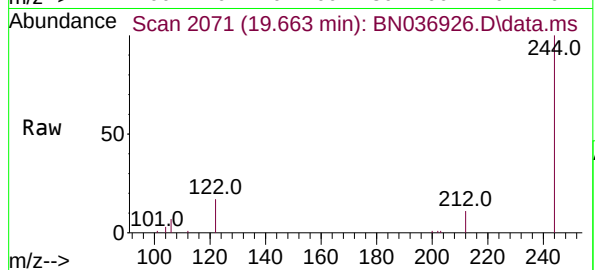
Tgt Ion:244 Resp: 8916

Ion Ratio Lower Upper

244 100

212 11.4 9.6 14.4

122 17.0 12.7 19.1



#32

Benzo(a)anthracene

Concen: 0.780 ng

RT: 21.206 min Scan# 2279

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

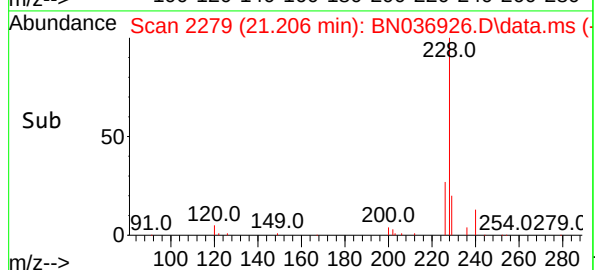
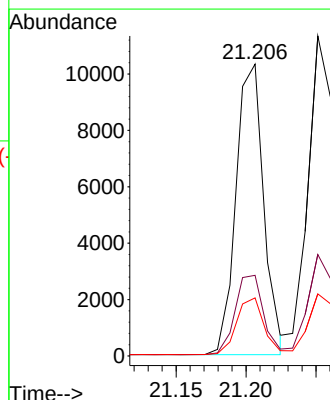
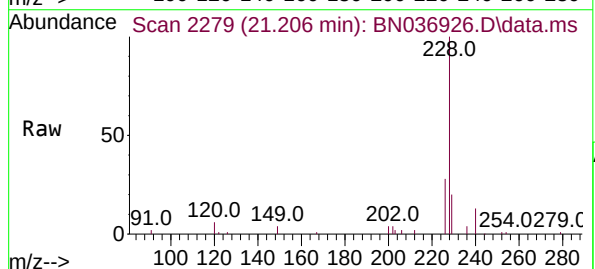
Tgt Ion:228 Resp: 14201

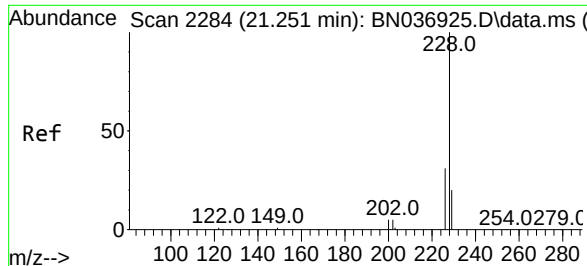
Ion Ratio Lower Upper

228 100

226 27.7 22.2 33.4

229 19.9 16.4 24.6





#33

Chrysene

Concen: 0.792 ng

RT: 21.251 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

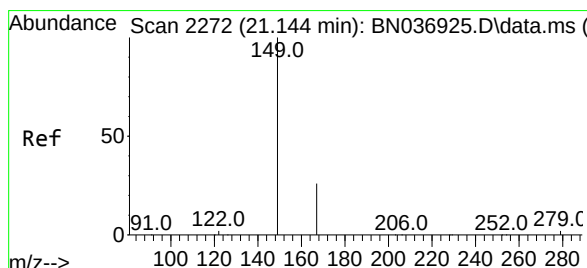
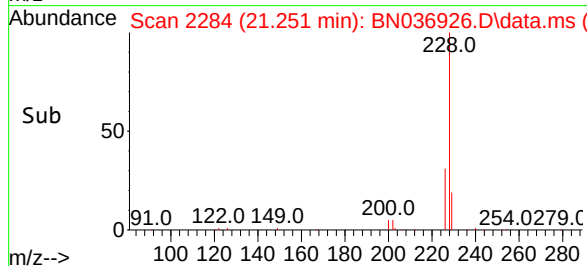
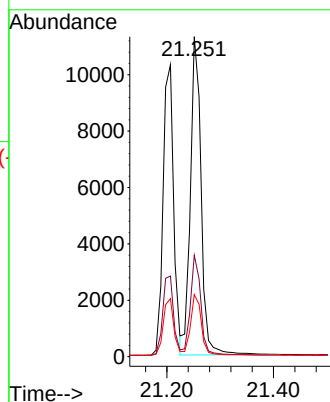
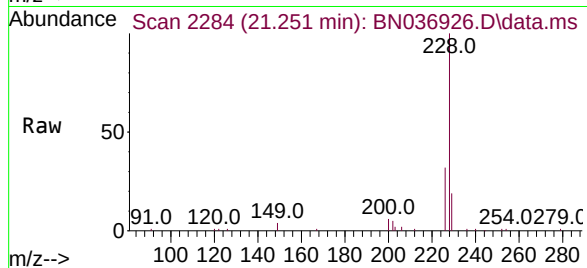
Tgt Ion:228 Resp: 15802

Ion Ratio Lower Upper

228 100

226 31.7 25.5 38.3

229 19.4 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.753 ng

RT: 21.144 min Scan# 2272

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

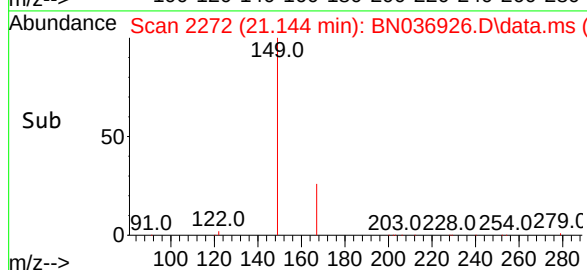
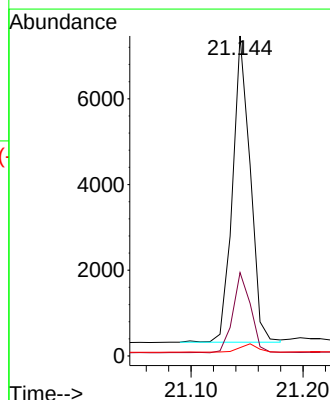
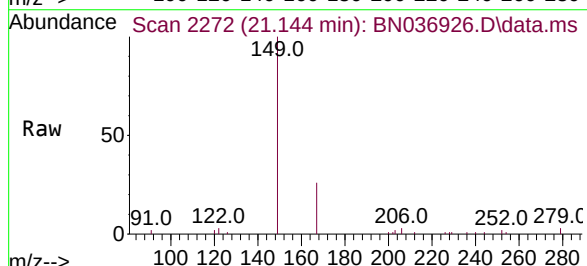
Tgt Ion:149 Resp: 7831

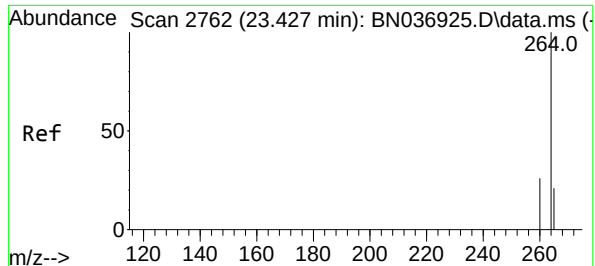
Ion Ratio Lower Upper

149 100

167 26.1 21.0 31.6

279 2.7 2.7 4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.427 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

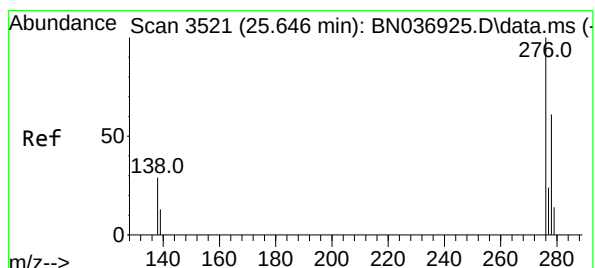
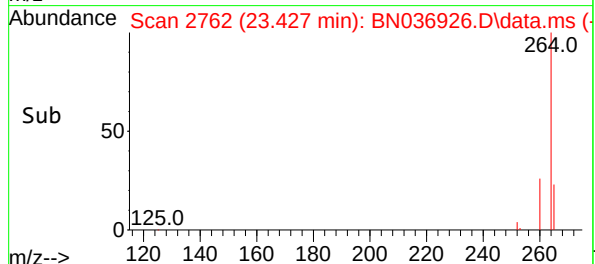
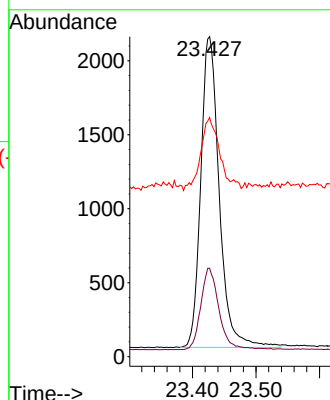
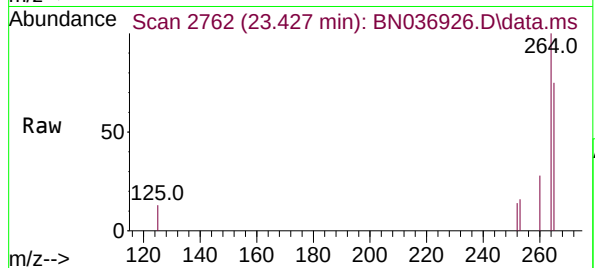
Tgt Ion:264 Resp: 4243

Ion Ratio Lower Upper

264 100

260 27.6 22.2 33.2

265 74.8 65.8 98.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.734 ng

RT: 25.643 min Scan# 3520

Delta R.T. -0.003 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

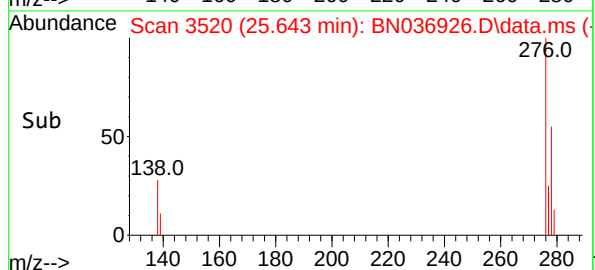
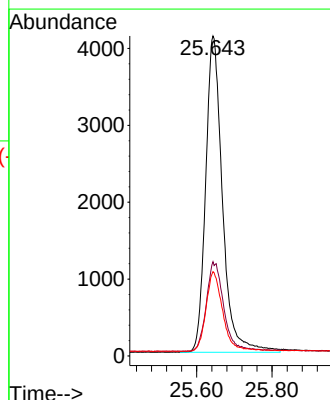
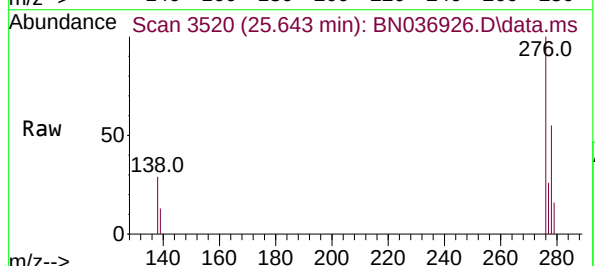
Tgt Ion:276 Resp: 12758

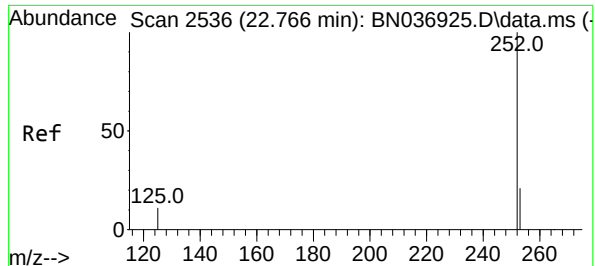
Ion Ratio Lower Upper

276 100

138 28.8 23.0 34.6

277 25.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.786 ng

RT: 22.766 min Scan# 2536

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

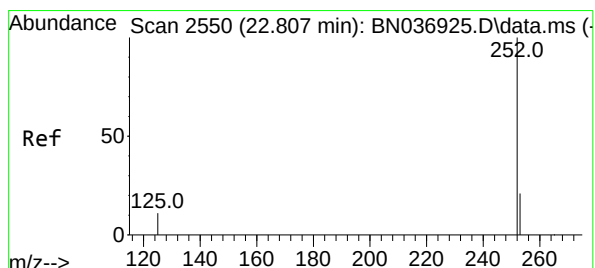
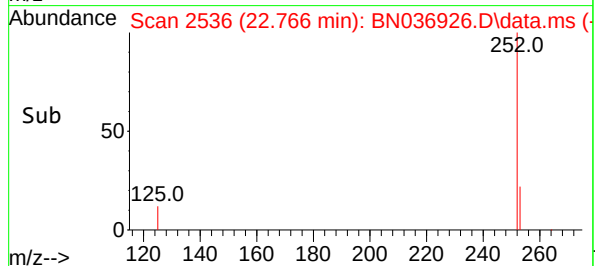
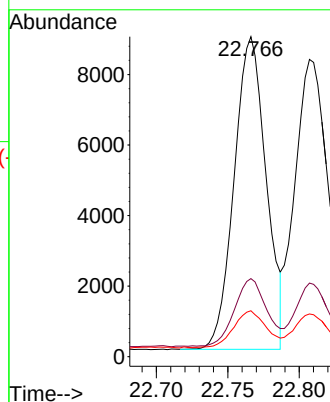
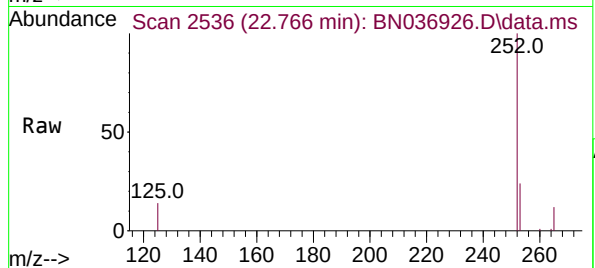
Tgt Ion:252 Resp: 13818

Ion Ratio Lower Upper

252 100

253 24.4 22.1 33.1

125 14.3 14.2 21.2



#38

Benzo(k)fluoranthene

Concen: 0.783 ng

RT: 22.807 min Scan# 2550

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

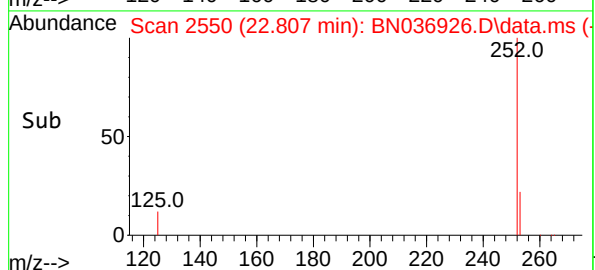
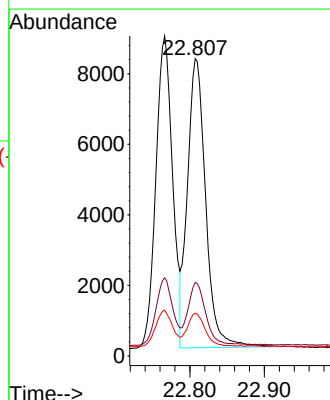
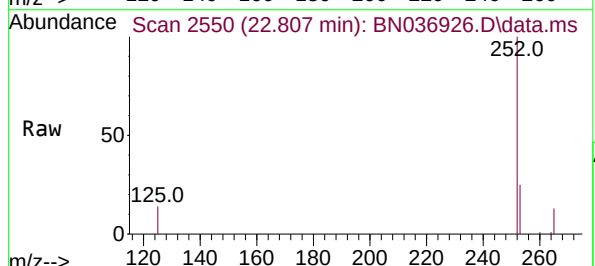
Tgt Ion:252 Resp: 13927

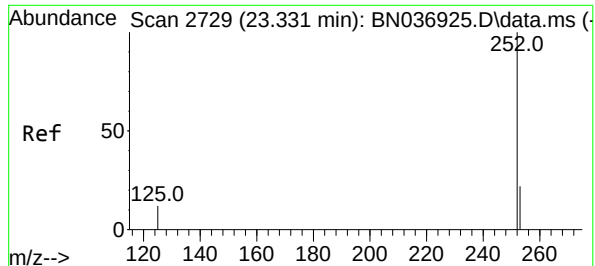
Ion Ratio Lower Upper

252 100

253 24.8 22.8 34.2

125 14.4 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.770 ng

RT: 23.330 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036926.D

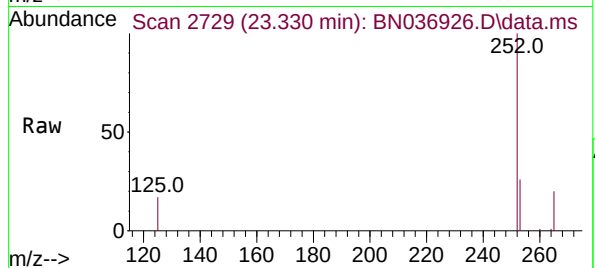
Acq: 28 Apr 2025 13:24

Instrument :

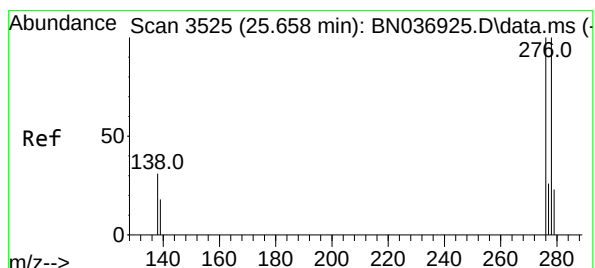
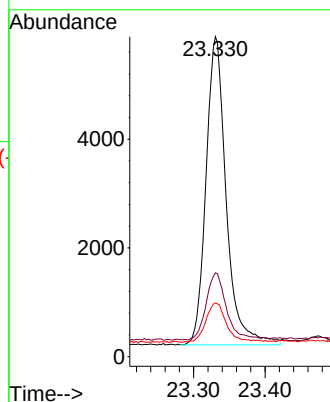
BNA_N

ClientSampleId :

SSTDICC0.8



Tgt Ion:	252	Resp:	11160
Ion	Ratio	Lower	Upper
252	100		
253	26.2	25.9	38.9
125	16.8	17.4	26.0



#40

Dibenzo(a,h)anthracene

Concen: 0.730 ng

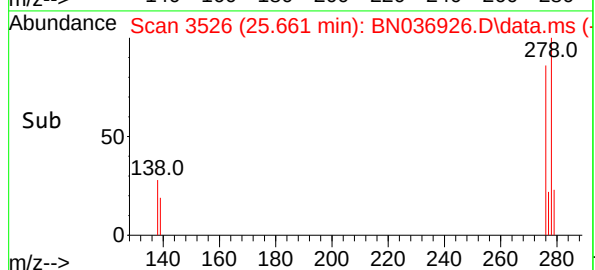
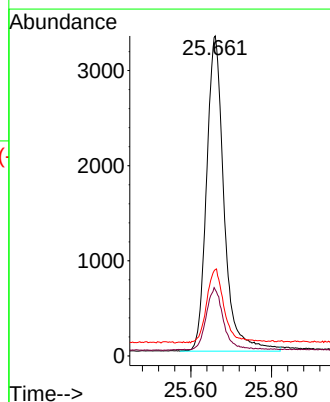
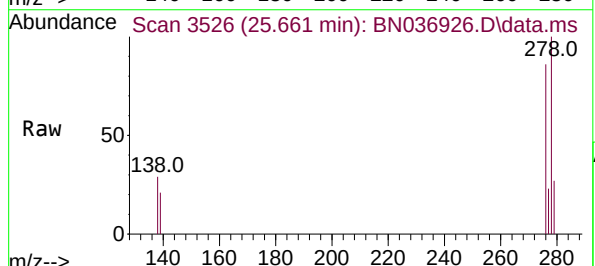
RT: 25.661 min Scan# 3526

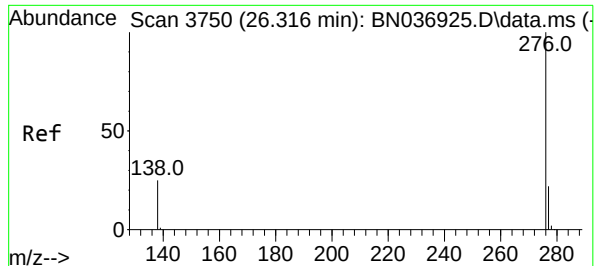
Delta R.T. 0.003 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Tgt Ion:	278	Resp:	9982
Ion	Ratio	Lower	Upper
278	100		
139	20.7	17.4	26.2
279	27.0	24.9	37.3





#41

Benzo(g,h,i)perylene

Concen: 0.724 ng

RT: 26.321 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN036926.D

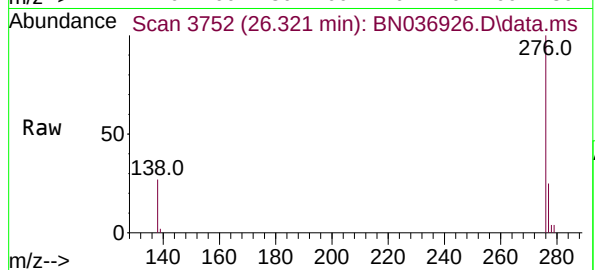
Acq: 28 Apr 2025 13:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



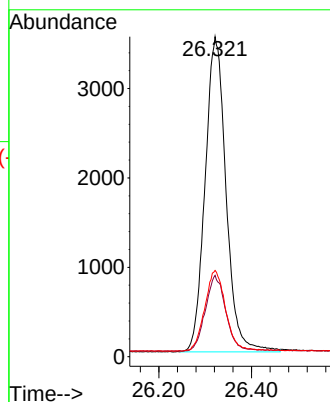
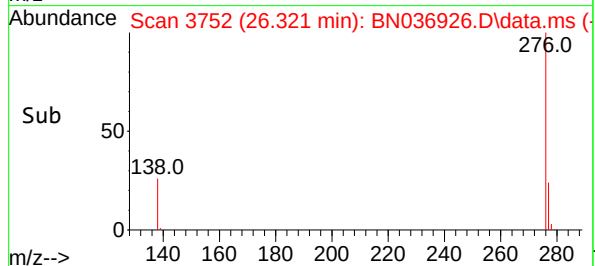
Tgt Ion:276 Resp: 11072

Ion Ratio Lower Upper

276 100

277 25.4 20.2 30.2

138 27.0 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036927.D
 Acq On : 28 Apr 2025 14:00
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Apr 28 15:13:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:11:09 2025
 Response via : Initial Calibration

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

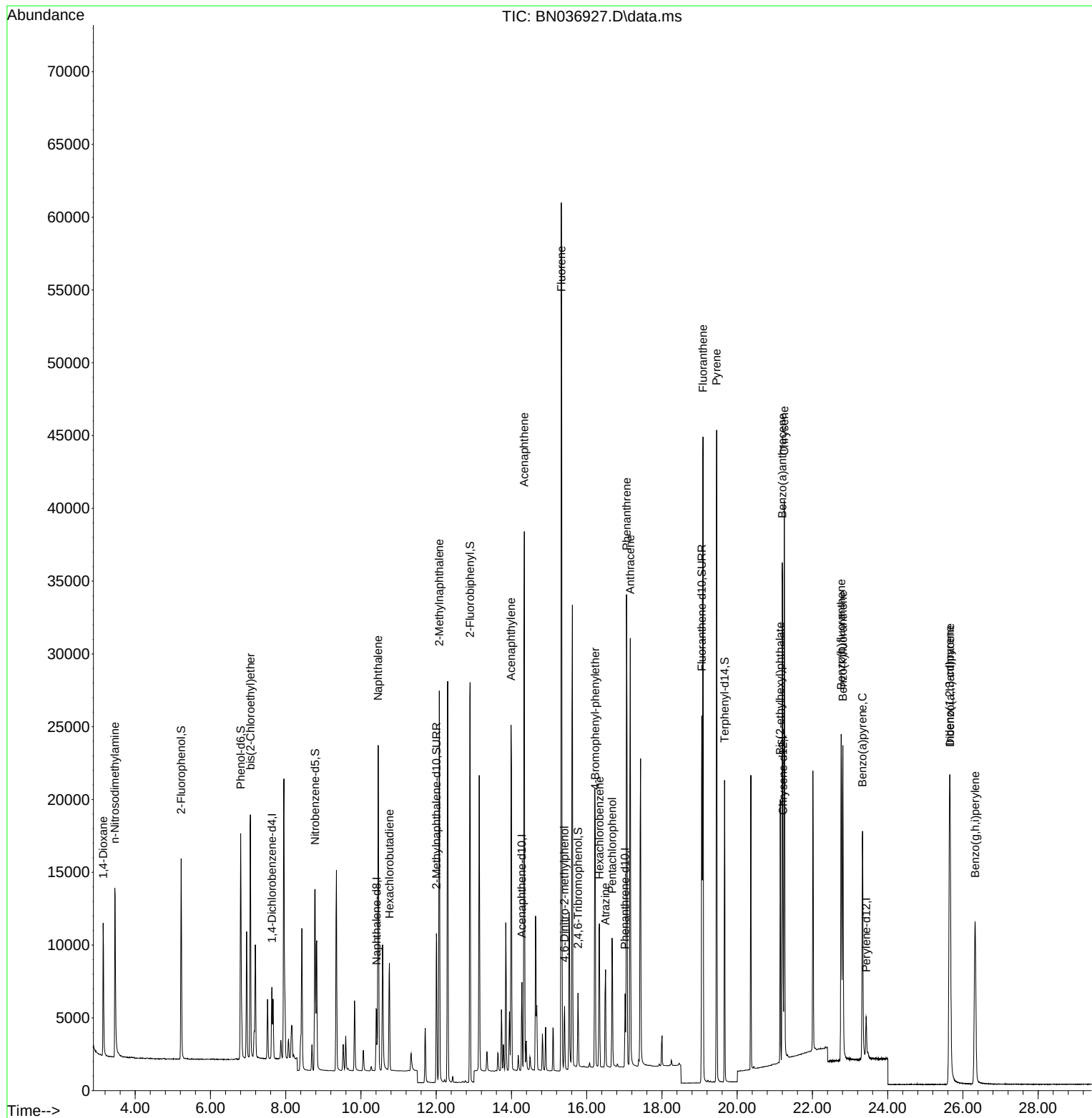
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2241	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	5594	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3185	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	6118	0.400	ng	0.00
29) Chrysene-d12	21.215	240	4605	0.400	ng	0.00
35) Perylene-d12	23.427	264	3734	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	9327	1.613	ng	0.00
5) Phenol-d6	6.802	99	11600	1.647	ng	0.00
8) Nitrobenzene-d5	8.781	82	9972	1.716	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	13343	1.720	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	2388	1.711	ng	0.00
15) 2-Fluorobiphenyl	12.898	172	25773	1.673	ng	0.00
27) Fluoranthene-d10	19.059	212	26603	1.699	ng	0.00
31) Terphenyl-d14	19.667	244	18514	1.689	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.148	88	4813	1.701	ng	96
3) n-Nitrosodimethylamine	3.458	42	9269	1.696	ng	# 98
6) bis(2-Chloroethyl)ether	7.062	93	11118	1.699	ng	99
9) Naphthalene	10.458	128	27421	1.684	ng	98
10) Hexachlorobutadiene	10.756	225	5873	1.655	ng	# 98
12) 2-Methylnaphthalene	12.082	142	17991	1.727	ng	99
16) Acenaphthylene	13.988	152	26335	1.708	ng	100
17) Acenaphthene	14.341	154	16981	1.665	ng	99
18) Fluorene	15.325	166	22781	1.715	ng	98
20) 4,6-Dinitro-2-methylph...	15.410	198	2759	1.800	ng	# 58
21) 4-Bromophenyl-phenylether	16.226	248	6907	1.695	ng	95
22) Hexachlorobenzene	16.338	284	7427	1.650	ng	99
23) Atrazine	16.500	200	5555	1.729	ng	93
24) Pentachlorophenol	16.673	266	3995	1.710	ng	98
25) Phenanthrene	17.058	178	33948	1.687	ng	99
26) Anthracene	17.157	178	31205	1.734	ng	100
28) Fluoranthene	19.091	202	38607	1.732	ng	99
30) Pyrene	19.453	202	38176	1.706	ng	100
32) Benzo(a)anthracene	21.197	228	29164	1.737	ng	98
33) Chrysene	21.251	228	31322	1.703	ng	98
34) Bis(2-ethylhexyl)phtha...	21.144	149	14810	1.544	ng	99
36) Indeno(1,2,3-cd)pyrene	25.643	276	25695	1.681	ng	99
37) Benzo(b)fluoranthene	22.763	252	26826	1.733	ng	# 91
38) Benzo(k)fluoranthene	22.807	252	27065	1.730	ng	# 90
39) Benzo(a)pyrene	23.330	252	21844	1.712	ng	# 85
40) Dibenzo(a,h)anthracene	25.658	278	20274	1.685	ng	# 92
41) Benzo(g,h,i)perylene	26.324	276	22323	1.659	ng	97

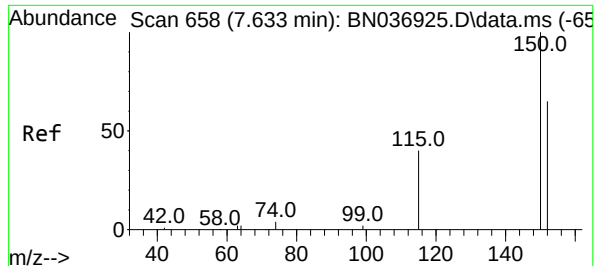
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036927.D
Acq On : 28 Apr 2025 14:00
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Apr 28 15:13:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration

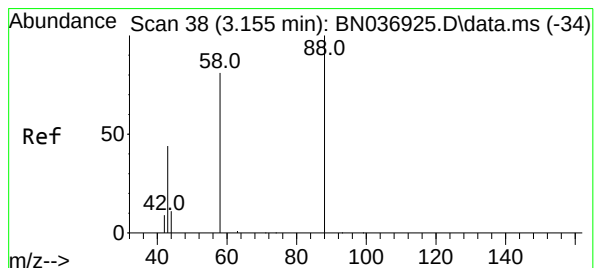
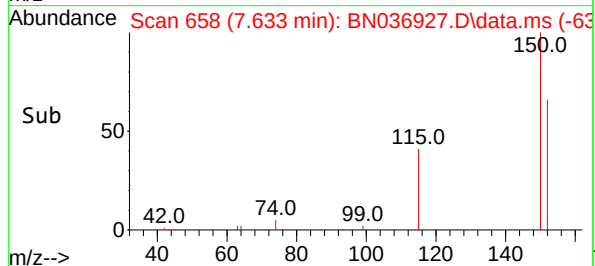
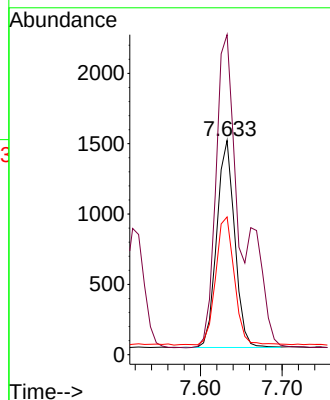
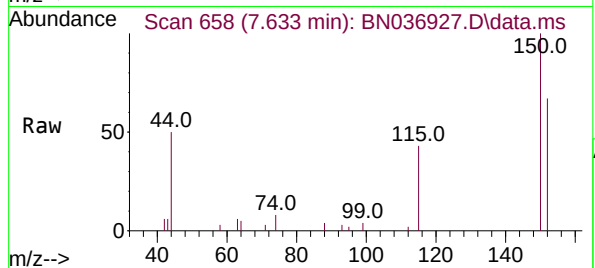




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

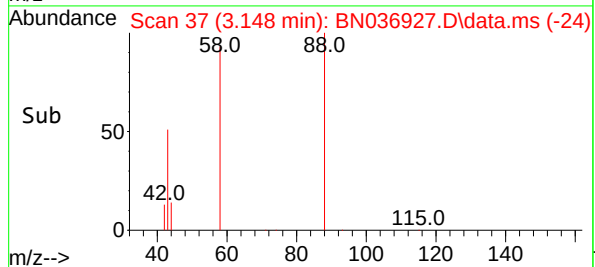
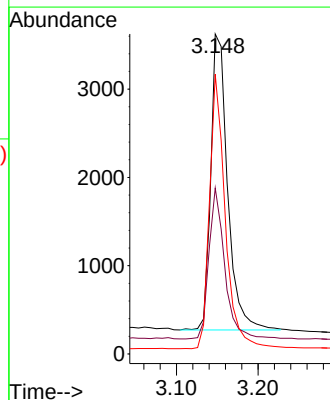
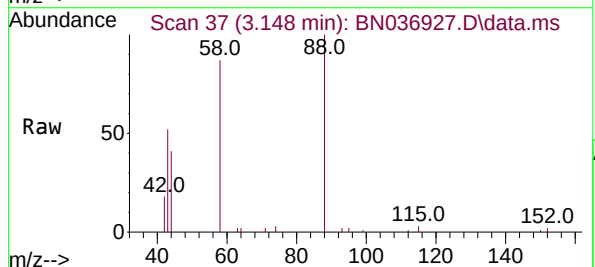
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

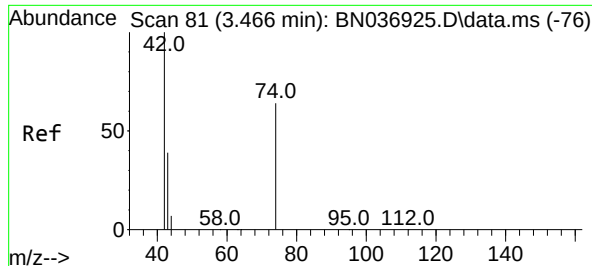
Tgt Ion:152 Resp: 2241
Ion Ratio Lower Upper
152 100
150 149.4 121.1 181.7
115 64.3 51.8 77.6



#2
1,4-Dioxane
Concen: 1.701 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 88 Resp: 4813
Ion Ratio Lower Upper
88 100
43 48.0 37.9 56.9
58 86.9 65.8 98.6

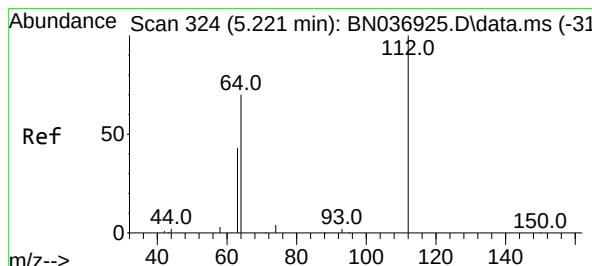
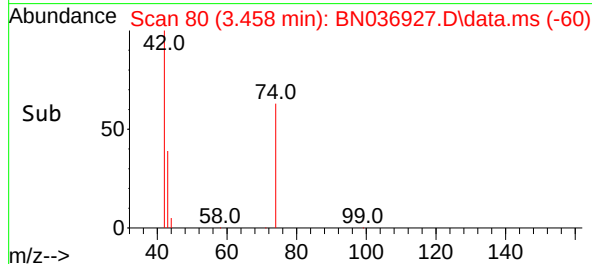
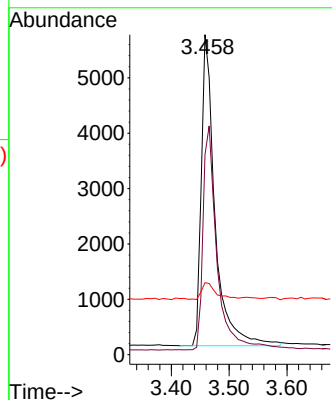
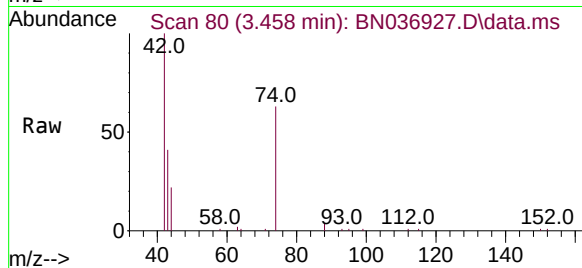




#3
n-Nitrosodimethylamine
Concen: 1.696 ng
RT: 3.458 min Scan# 80
Delta R.T. -0.007 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

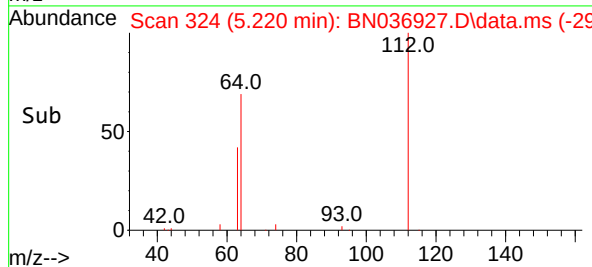
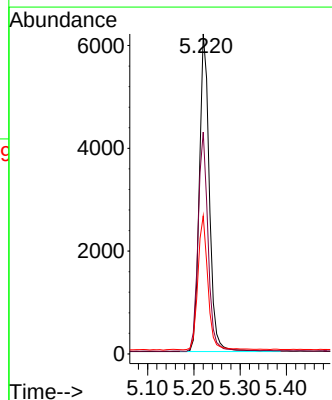
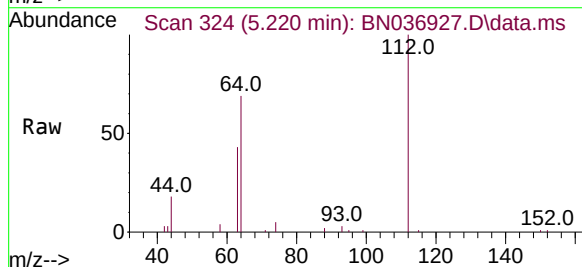
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

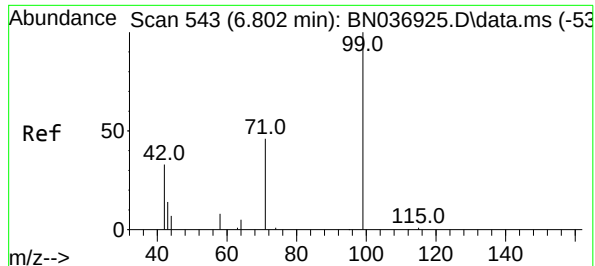
Tgt Ion: 42 Resp: 9269
Ion Ratio Lower Upper
42 100
74 73.6 59.9 89.9
44 5.5 7.5 11.3#



#4
2-Fluorophenol
Concen: 1.613 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 112 Resp: 9327
Ion Ratio Lower Upper
112 100
64 68.9 55.7 83.5
63 42.2 33.9 50.9

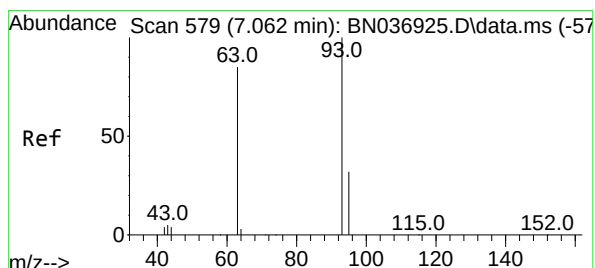
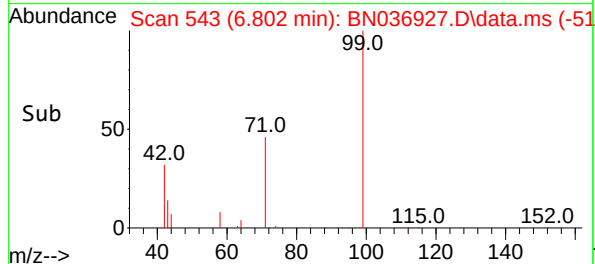
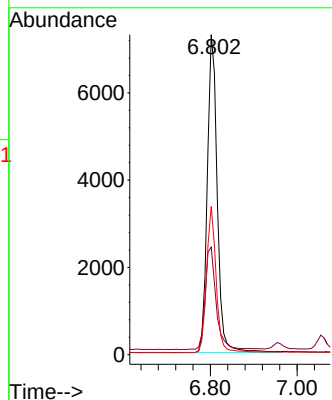
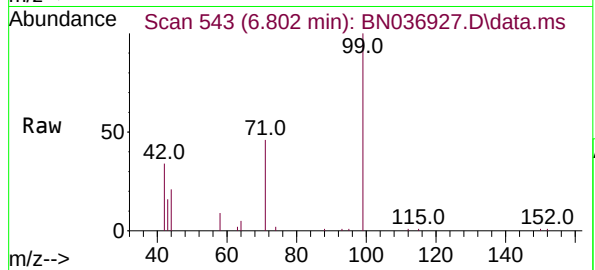




#5
Phenol-d6
Concen: 1.647 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

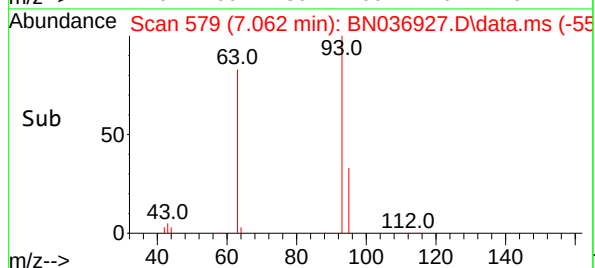
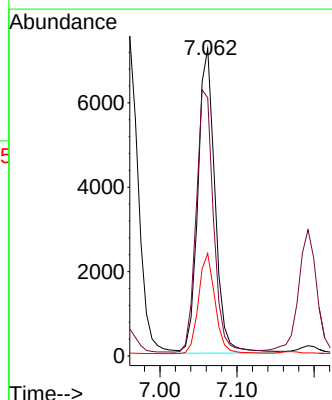
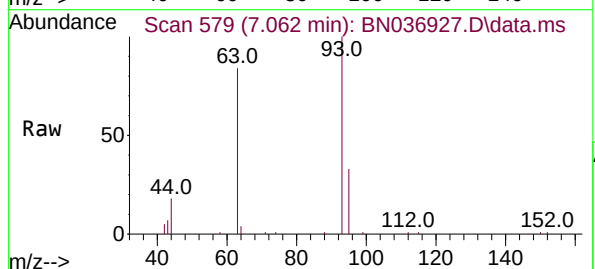
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

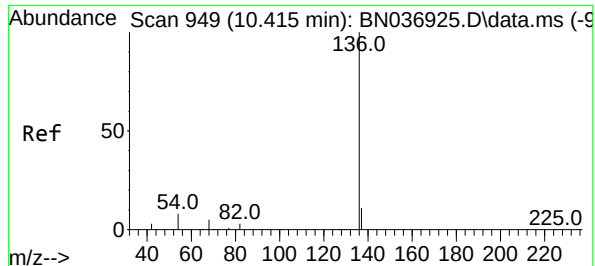
Tgt Ion: 99 Resp: 11600
Ion Ratio Lower Upper
99 100
42 35.3 29.6 44.4
71 44.4 36.0 54.0



#6
bis(2-Chloroethyl)ether
Concen: 1.699 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 93 Resp: 11118
Ion Ratio Lower Upper
93 100
63 87.5 69.0 103.6
95 31.9 25.4 38.0

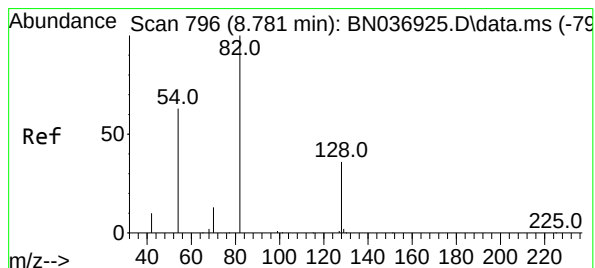
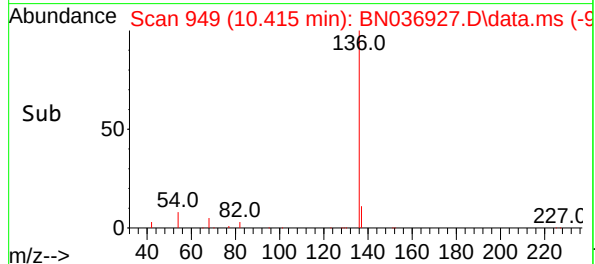
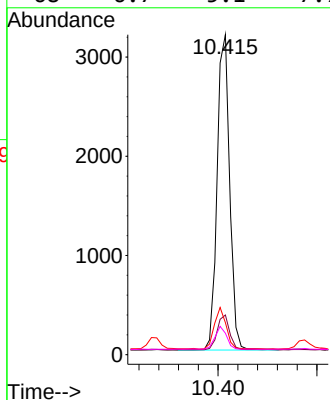
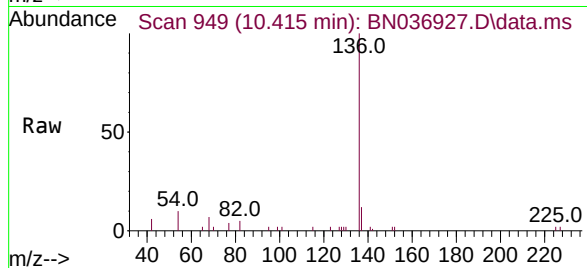




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

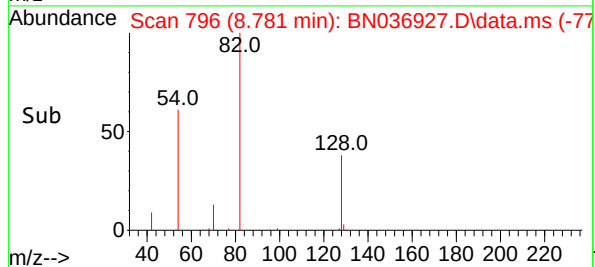
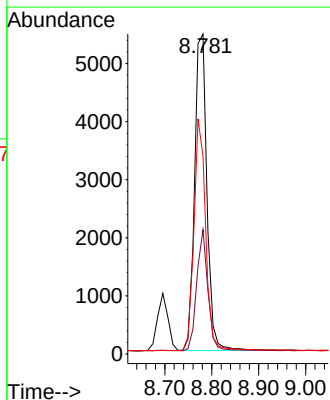
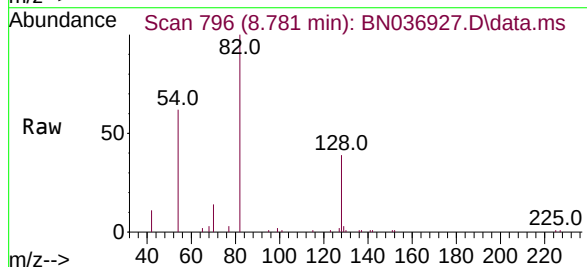
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

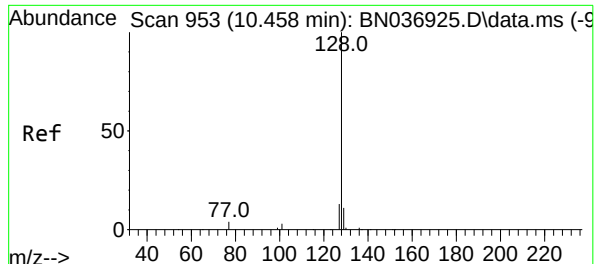
Tgt Ion:	136	Resp:	5594
Ion	Ratio	Lower	Upper
136	100		
137	12.4	9.7	14.5
54	10.0	8.0	12.0
68	6.7	5.1	7.7



#8
Nitrobenzene-d5
Concen: 1.716 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:	82	Resp:	9972
Ion	Ratio	Lower	Upper
82	100		
128	38.8	30.7	46.1
54	61.8	52.1	78.1

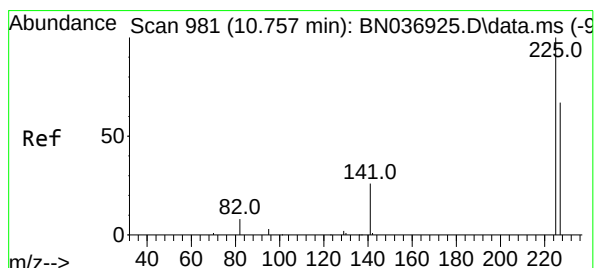
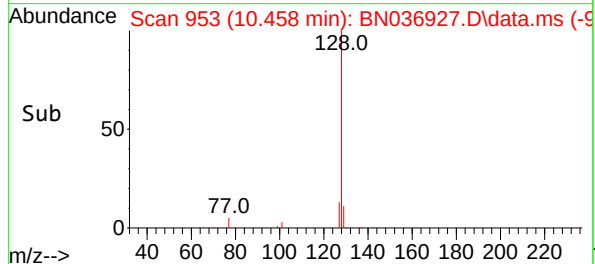
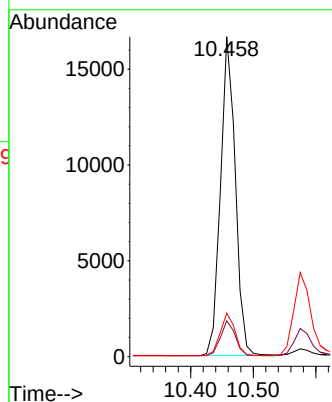
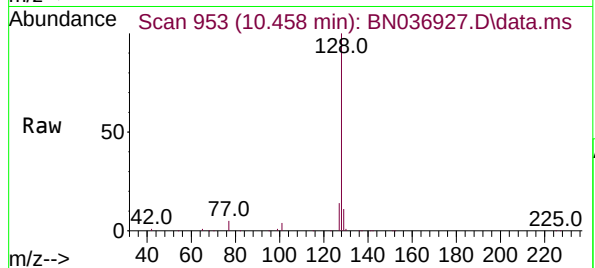




#9
Naphthalene
Concen: 1.684 ng
RT: 10.458 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

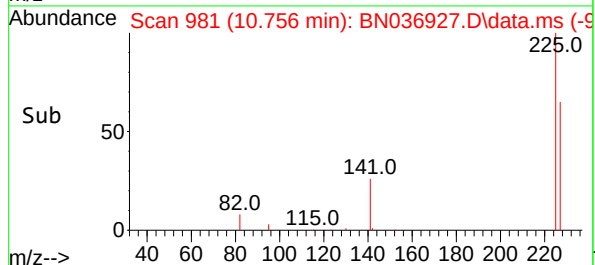
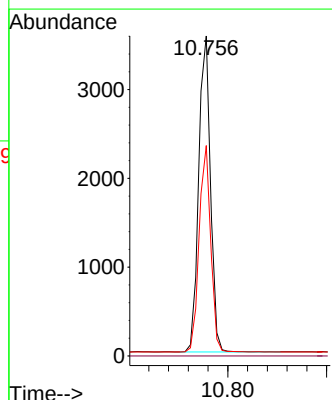
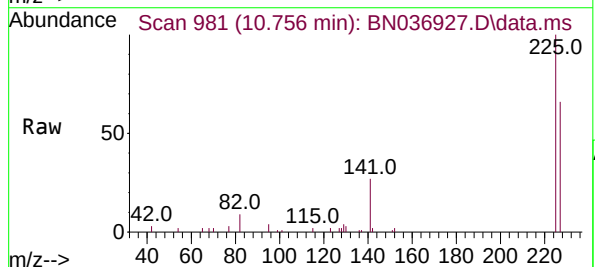
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

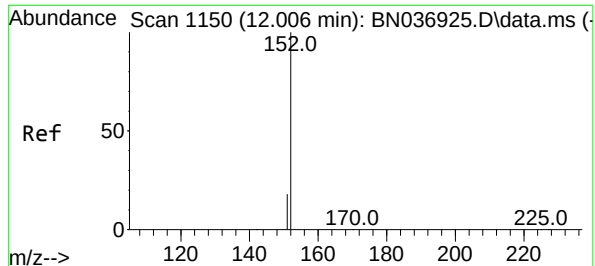
Tgt Ion:128 Resp: 27421
Ion Ratio Lower Upper
128 100
129 11.2 9.8 14.6
127 13.6 11.4 17.2



#10
Hexachlorobutadiene
Concen: 1.655 ng
RT: 10.756 min Scan# 981
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:225 Resp: 5873
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.1 52.2 78.4

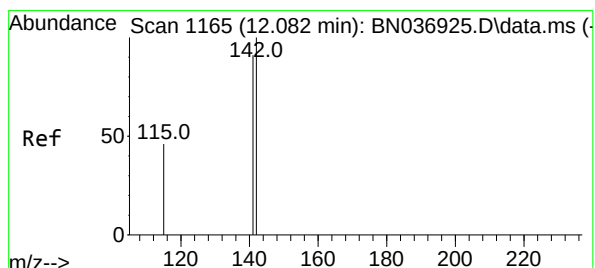
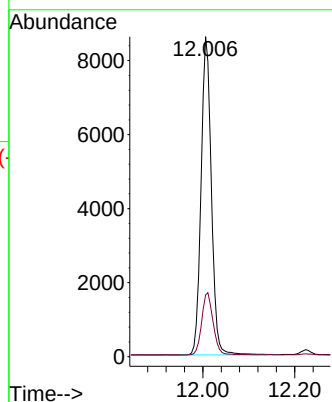
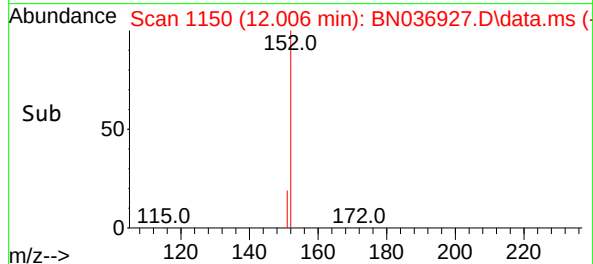
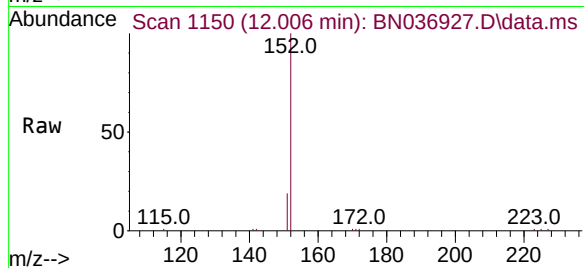




#11
2-Methylnaphthalene-d10
Concen: 1.720 ng
RT: 12.006 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

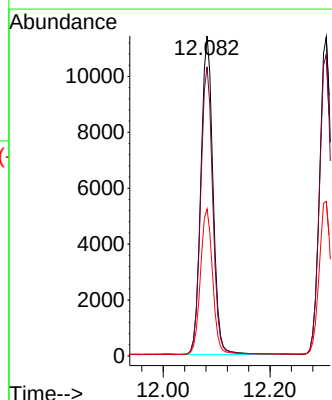
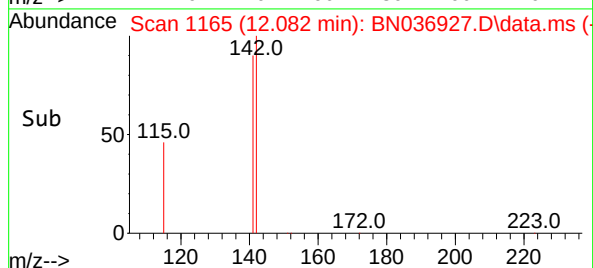
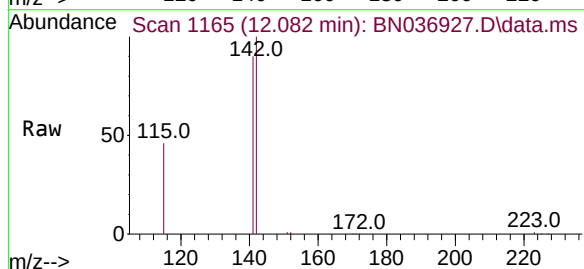
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

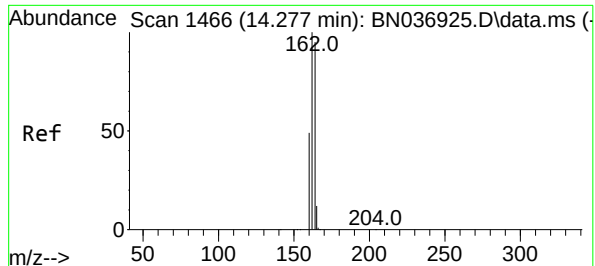
Tgt Ion:152 Resp: 13343
Ion Ratio Lower Upper
152 100
151 21.6 16.9 25.3



#12
2-Methylnaphthalene
Concen: 1.727 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:142 Resp: 17991
Ion Ratio Lower Upper
142 100
141 90.3 72.8 109.2
115 46.0 38.2 57.4

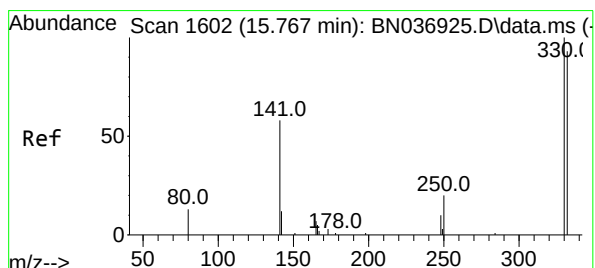
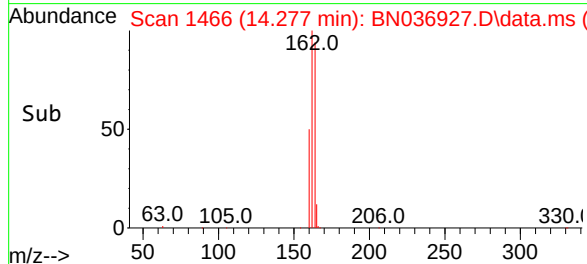
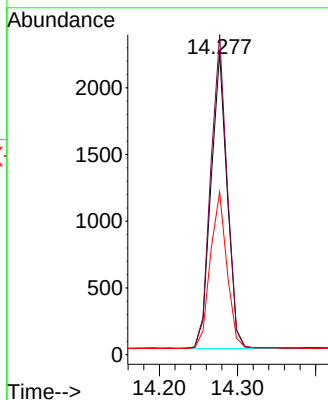
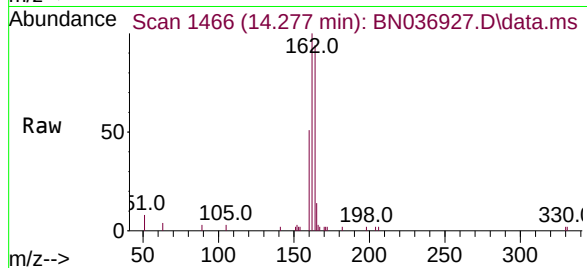




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

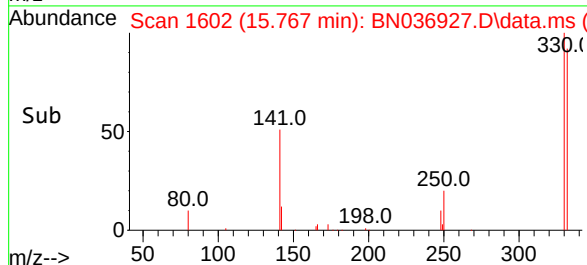
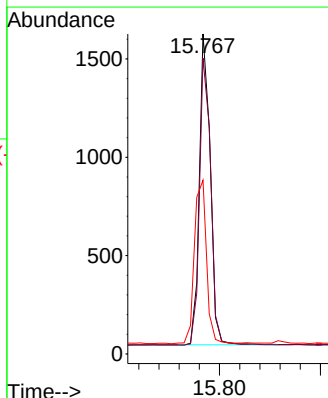
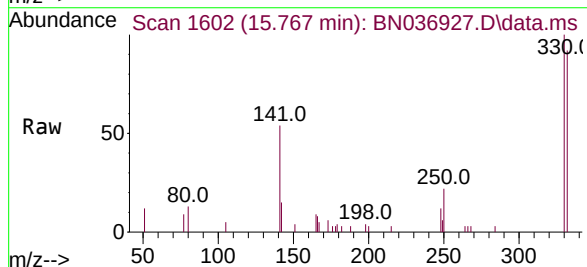
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

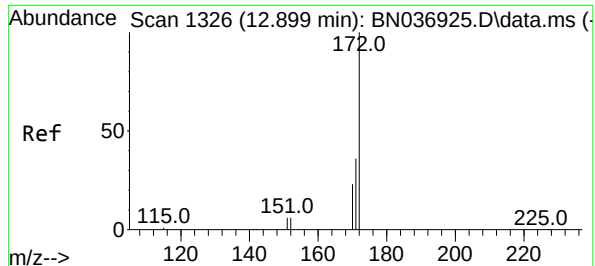
Tgt Ion:164 Resp: 3185
Ion Ratio Lower Upper
164 100
162 105.9 83.8 125.8
160 53.8 42.0 63.0



#14
2,4,6-Tribromophenol
Concen: 1.711 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:330 Resp: 2388
Ion Ratio Lower Upper
330 100
332 95.3 76.3 114.5
141 58.3 45.4 68.2

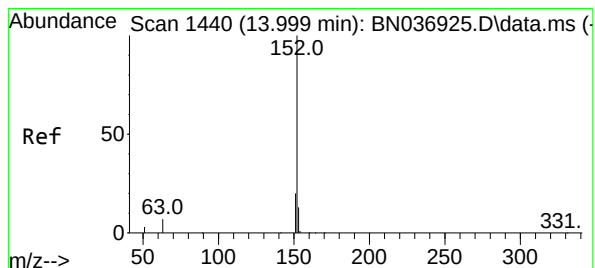
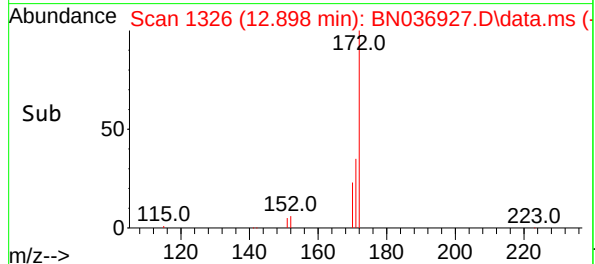
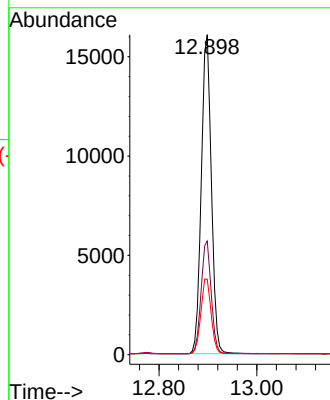
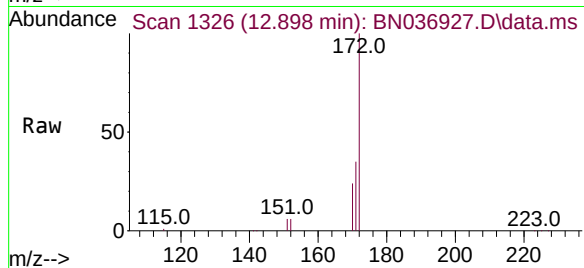




#15
2-Fluorobiphenyl
Concen: 1.673 ng
RT: 12.898 min Scan# 1439
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

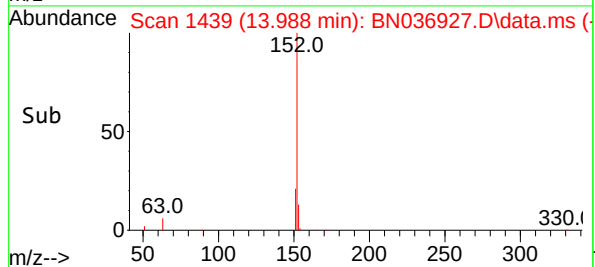
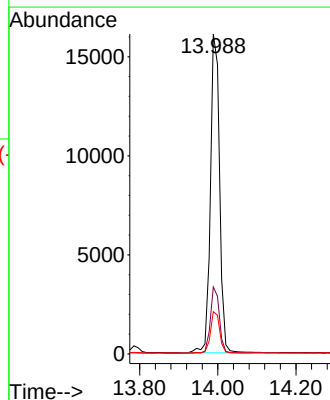
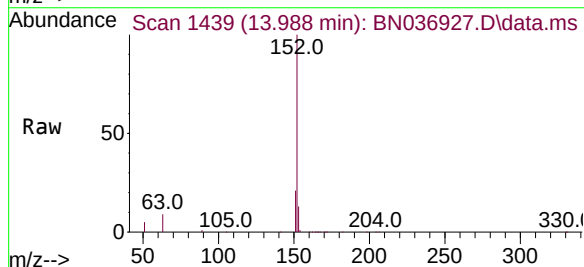
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

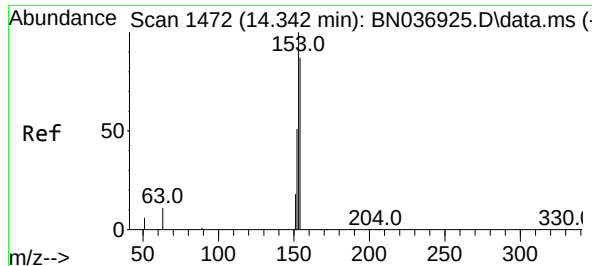
Tgt Ion:172 Resp: 25773
Ion Ratio Lower Upper
172 100
171 35.5 29.4 44.0
170 23.6 19.4 29.0



#16
Acenaphthylene
Concen: 1.708 ng
RT: 13.988 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:152 Resp: 26335
Ion Ratio Lower Upper
152 100
151 20.0 16.0 24.0
153 13.0 10.2 15.2

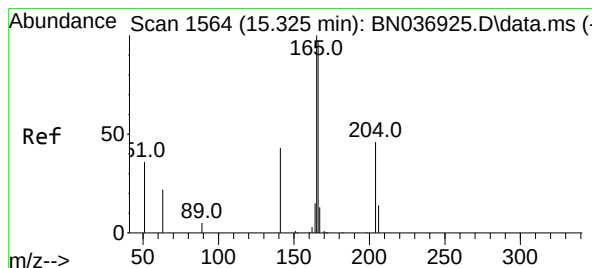
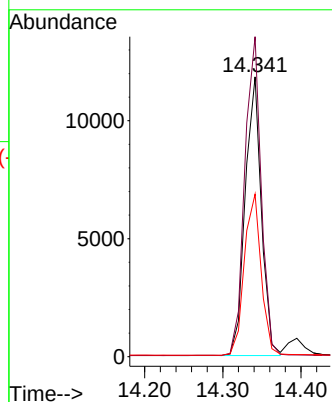
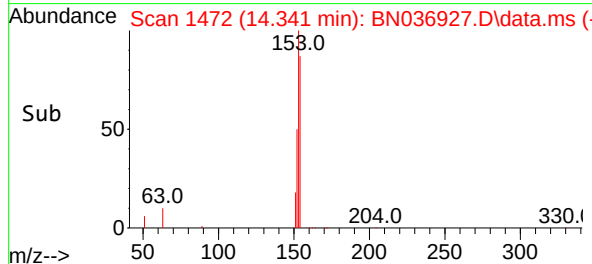
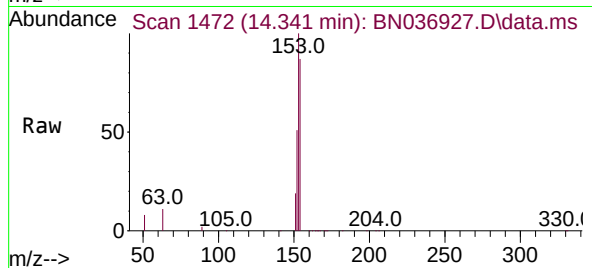




#17
Acenaphthene
Concen: 1.665 ng
RT: 14.341 min Scan# 1472
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

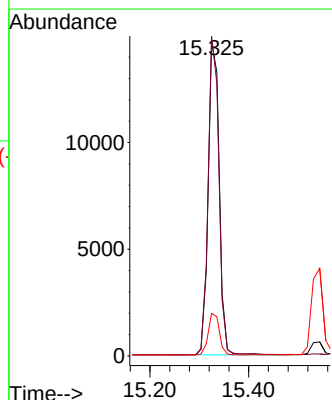
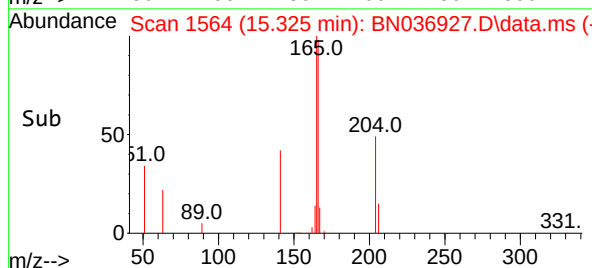
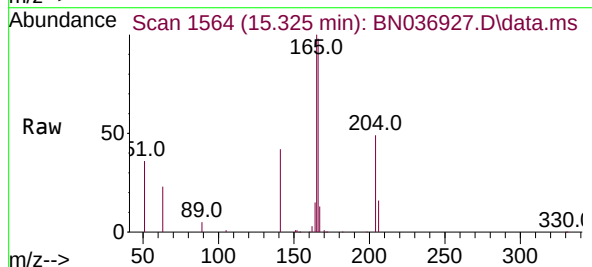
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

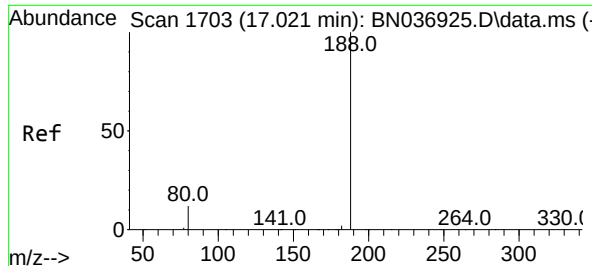
Tgt Ion:154 Resp: 16981
Ion Ratio Lower Upper
154 100
153 116.6 93.4 140.2
152 60.9 49.5 74.3



#18
Fluorene
Concen: 1.715 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:166 Resp: 22781
Ion Ratio Lower Upper
166 100
165 99.0 80.8 121.2
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

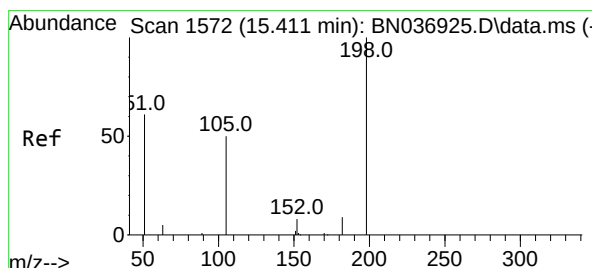
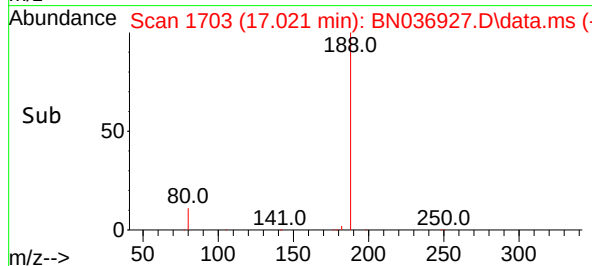
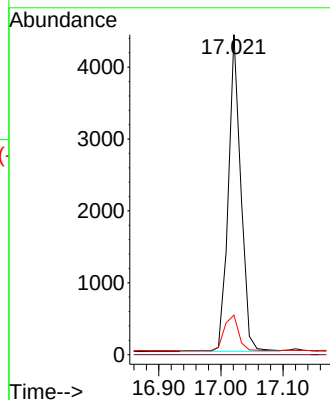
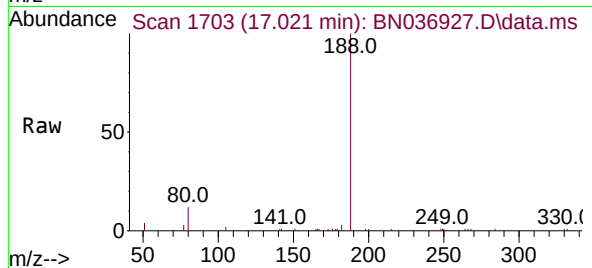
Tgt Ion:188 Resp: 6118

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.3 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 1.800 ng

RT: 15.410 min Scan# 1572

Delta R.T. -0.001 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

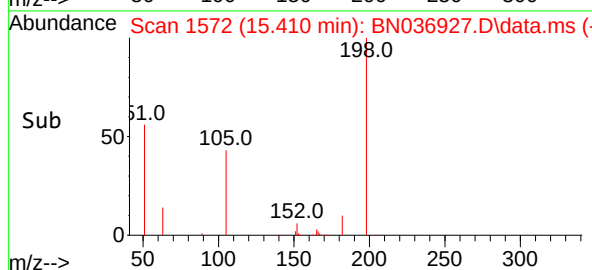
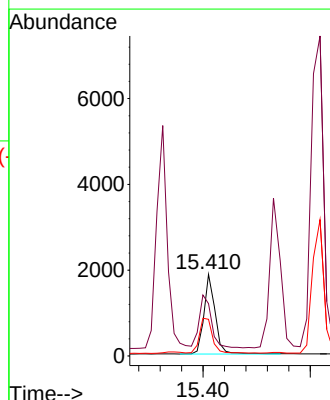
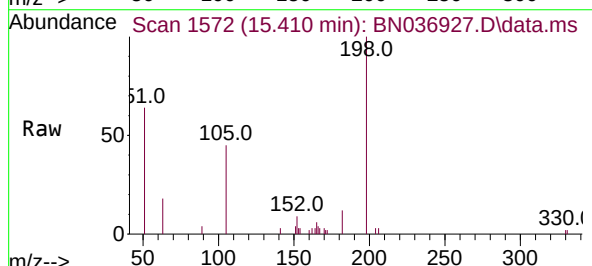
Tgt Ion:198 Resp: 2759

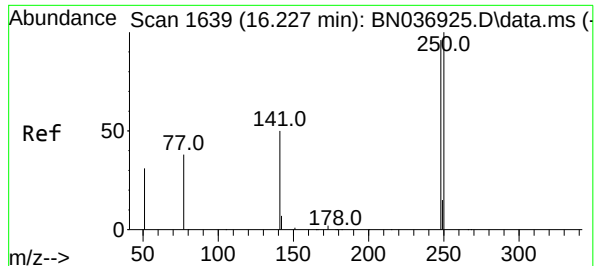
Ion Ratio Lower Upper

198 100

51 64.1 97.9 146.9#

105 44.9 50.0 75.0#

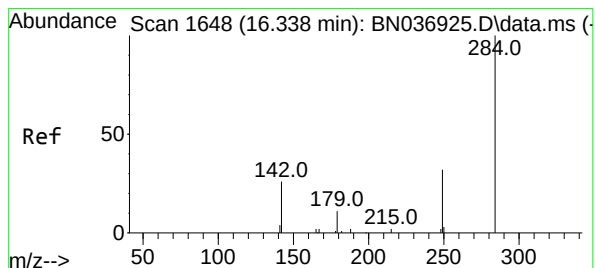
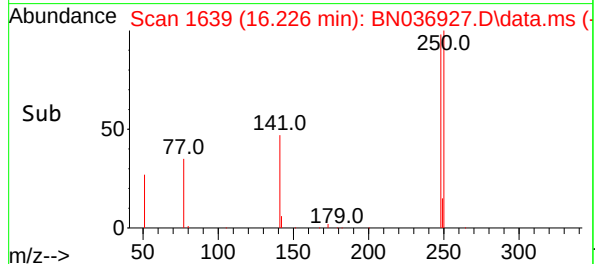
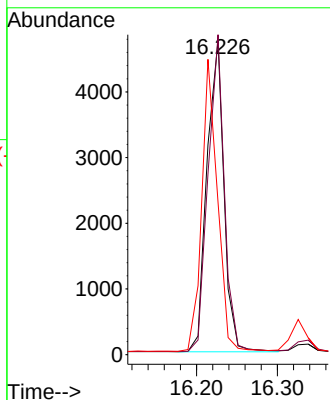
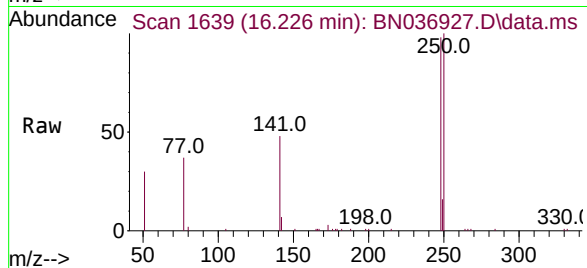




#21
4-Bromophenyl-phenylether
Concen: 1.695 ng
RT: 16.226 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

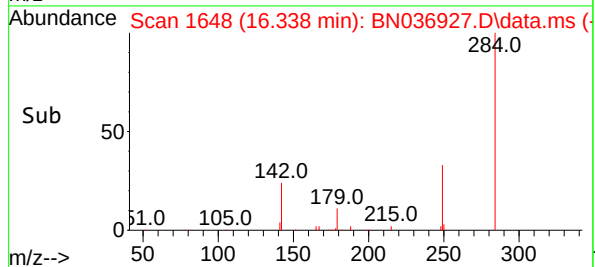
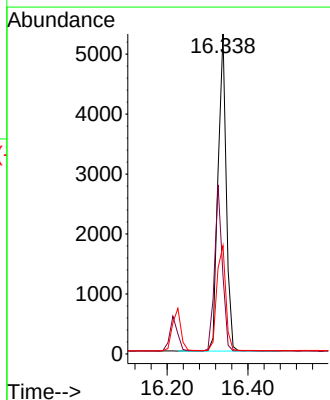
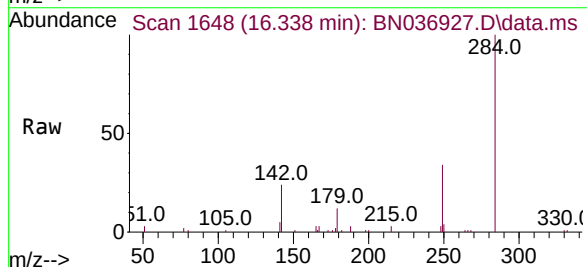
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

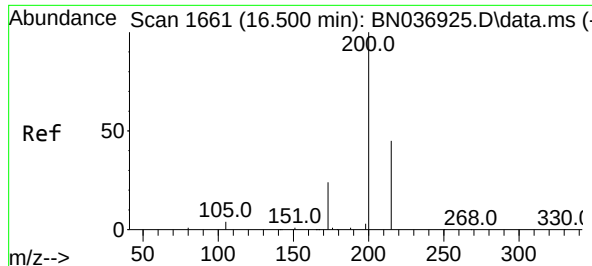
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.8	83.7	125.5
141	48.5	43.8	65.8



#22
Hexachlorobenzene
Concen: 1.650 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion	Ratio	Lower	Upper
284	100		
142	50.5	40.0	60.0
249	36.5	28.2	42.2

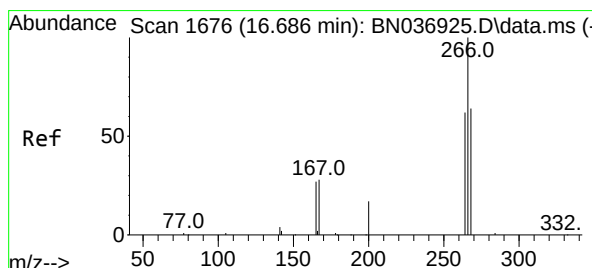
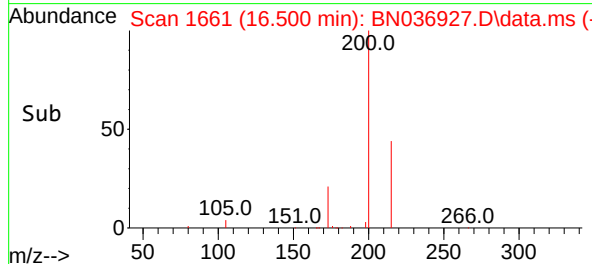
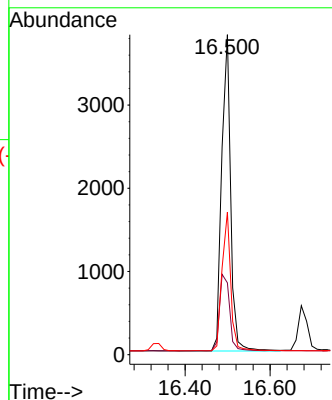
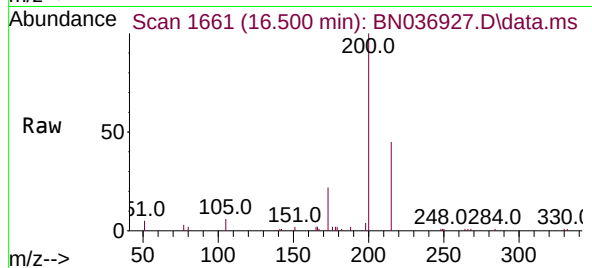




#23
Atrazine
Concen: 1.729 ng
RT: 16.500 min Scan# 1661
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

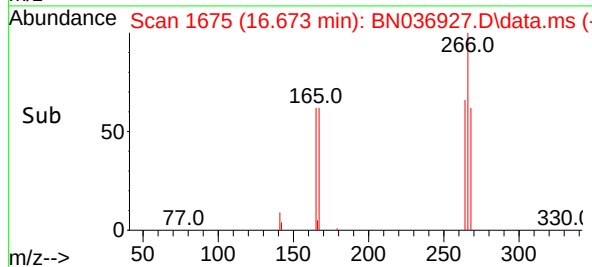
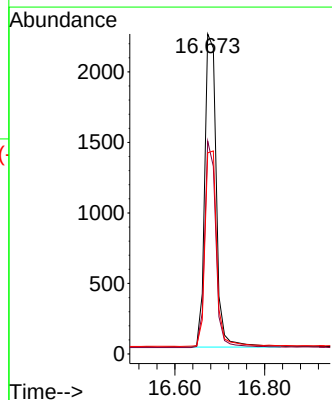
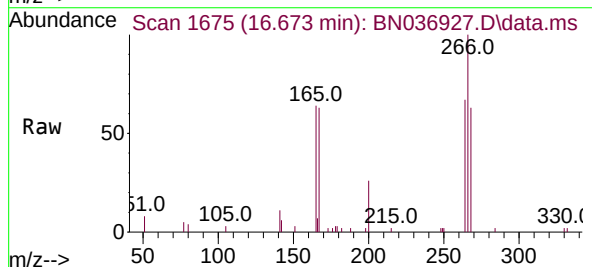
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

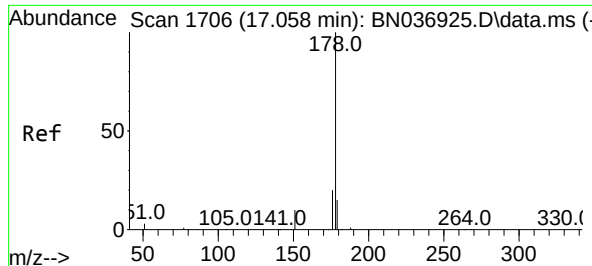
Tgt Ion	200	Resp:	5555
Ion Ratio	Lower	Upper	
200	100		
173	22.5	22.4	33.6
215	44.6	38.6	57.8



#24
Pentachlorophenol
Concen: 1.710 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.013 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion	266	Resp:	3995
Ion Ratio	Lower	Upper	
266	100		
264	63.3	49.9	74.9
268	63.2	52.2	78.4

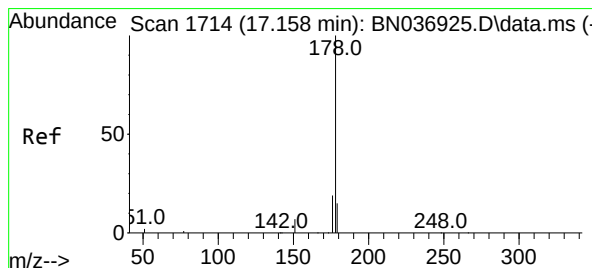
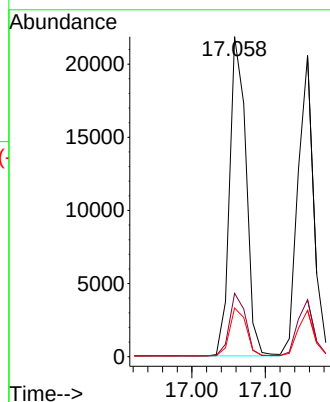
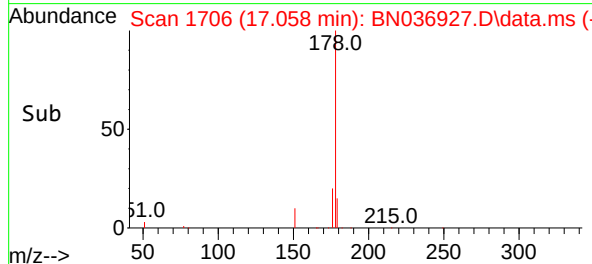
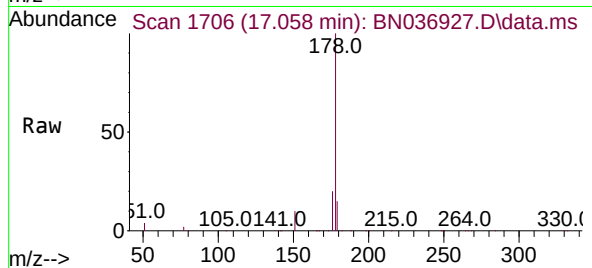




#25
Phenanthrene
Concen: 1.687 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

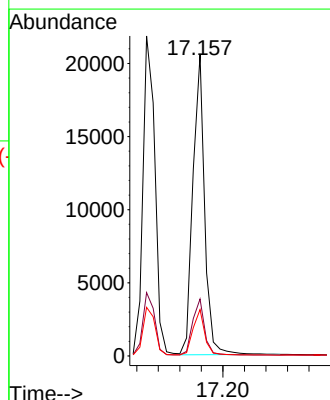
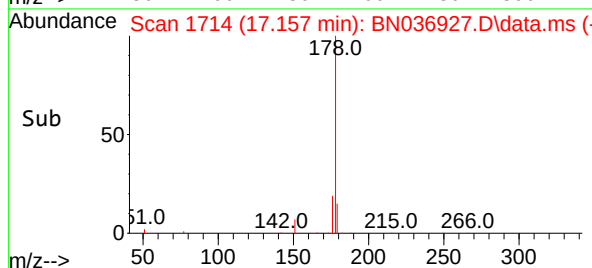
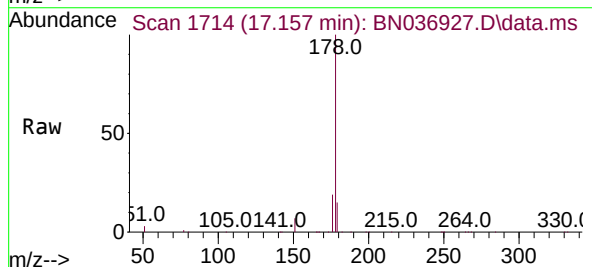
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

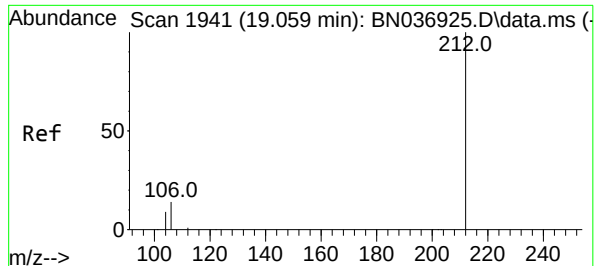
Tgt Ion:178 Resp: 33948
Ion Ratio Lower Upper
178 100
176 19.4 15.7 23.5
179 15.1 12.4 18.6



#26
Anthracene
Concen: 1.734 ng
RT: 17.157 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:178 Resp: 31205
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.2 12.1 18.1





#27

Fluoranthene-d10

Concen: 1.699 ng

RT: 19.059 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

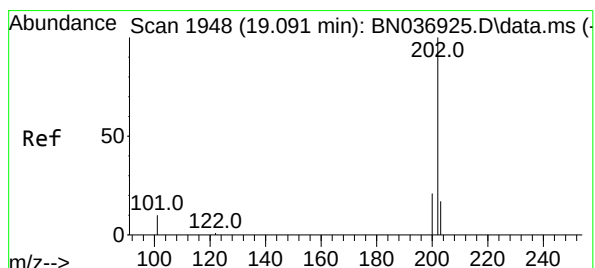
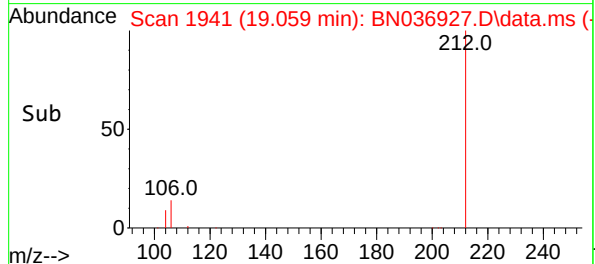
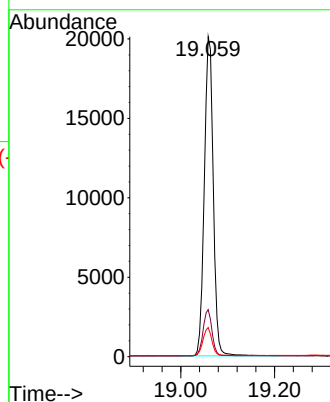
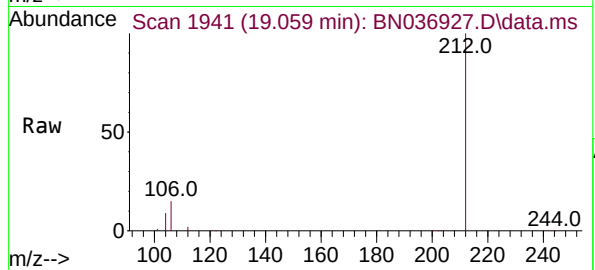
Tgt Ion:212 Resp: 26603

Ion Ratio Lower Upper

212 100

106 14.4 11.6 17.4

104 8.8 7.0 10.4



#28

Fluoranthene

Concen: 1.732 ng

RT: 19.091 min Scan# 1948

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

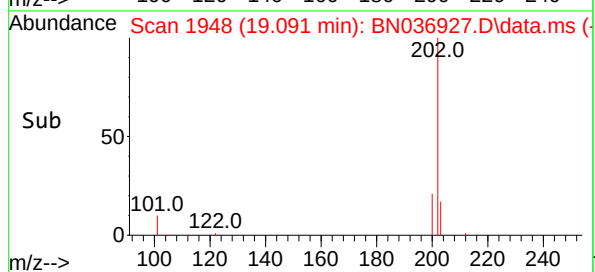
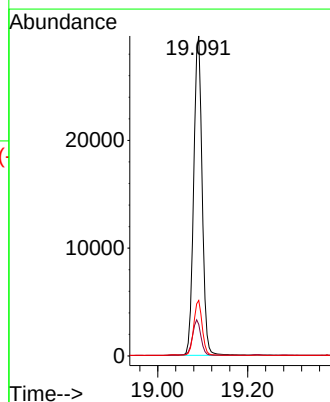
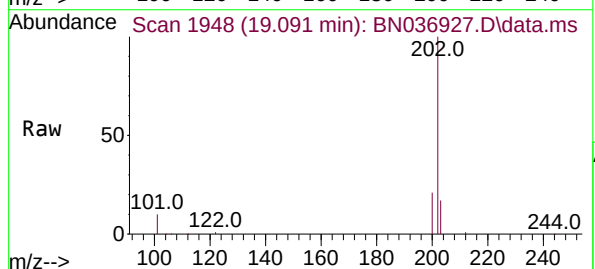
Tgt Ion:202 Resp: 38607

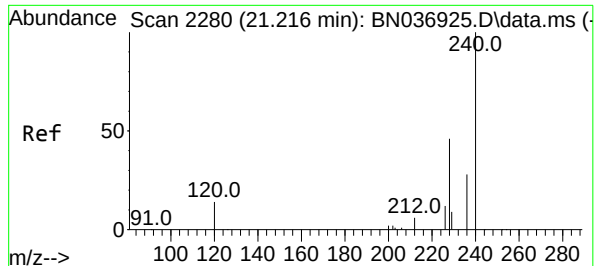
Ion Ratio Lower Upper

202 100

101 11.3 8.5 12.7

203 17.0 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.215 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

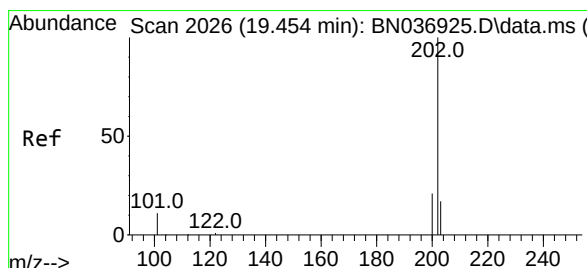
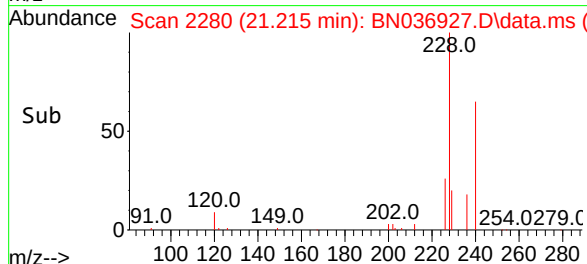
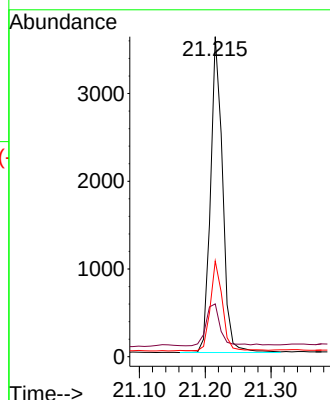
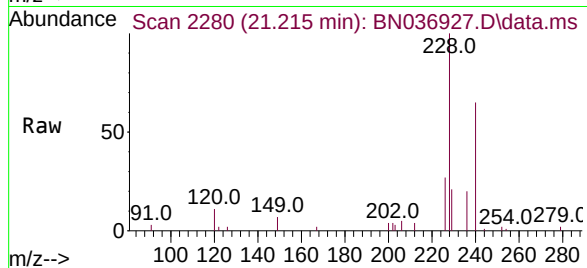
Tgt Ion:240 Resp: 4605

Ion Ratio Lower Upper

240 100

120 16.5 14.1 21.1

236 29.9 23.8 35.8



#30

Pyrene

Concen: 1.706 ng

RT: 19.453 min Scan# 2026

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

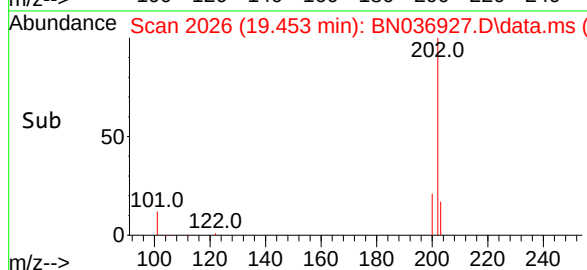
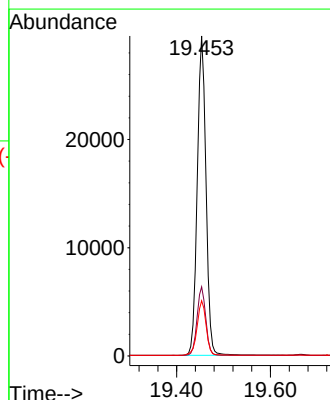
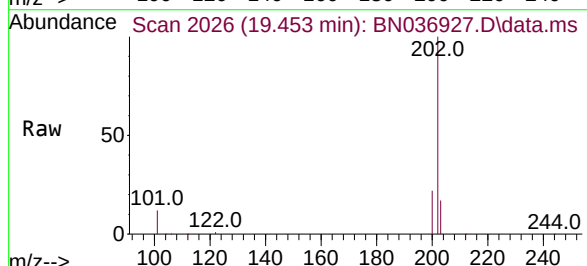
Tgt Ion:202 Resp: 38176

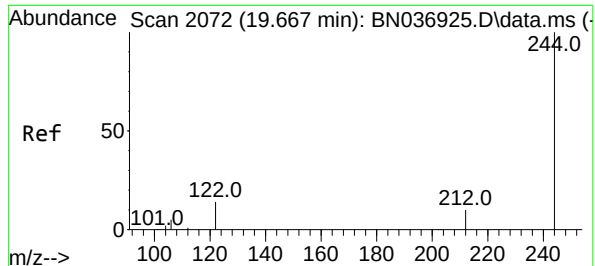
Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.6

203 17.7 14.0 21.0

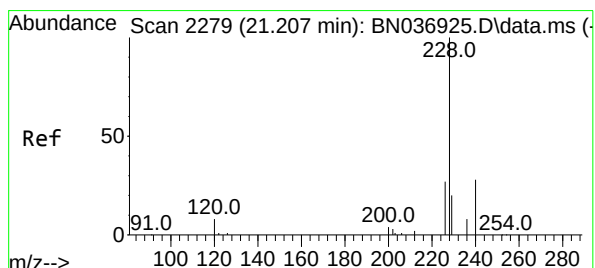
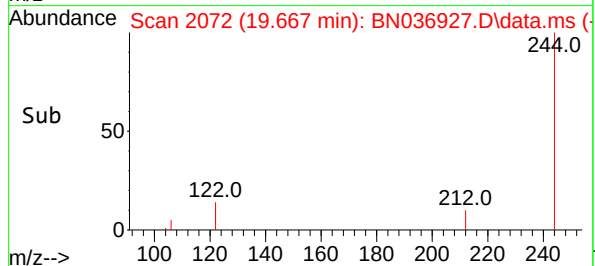
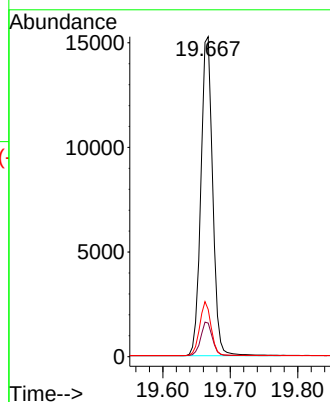
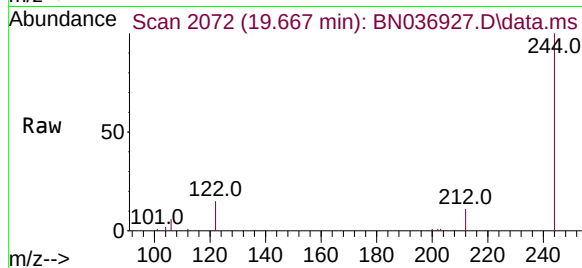




#31
Terphenyl-d14
Concen: 1.689 ng
RT: 19.667 min Scan# 2072
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

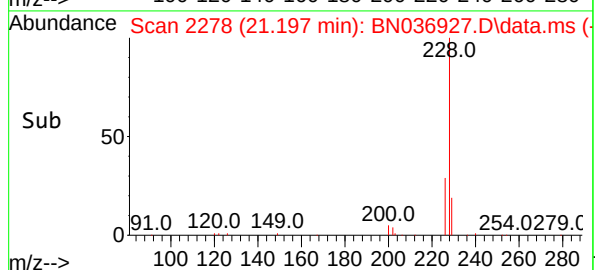
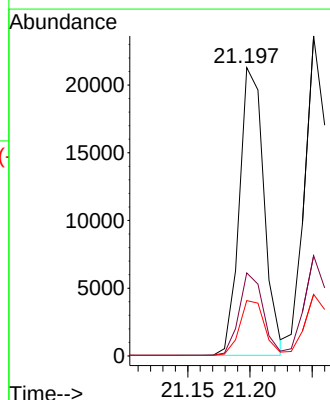
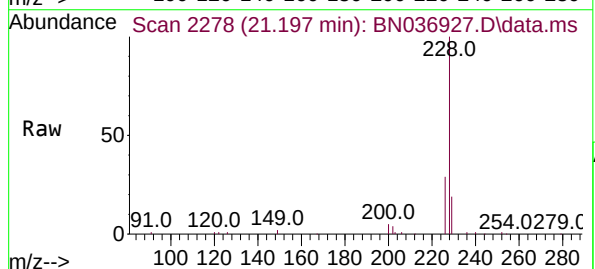
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

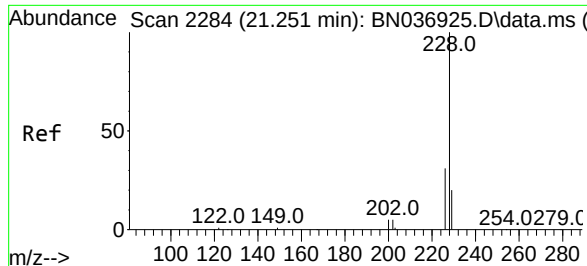
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.5	9.6	14.4
122	14.7	12.7	19.1



#32
Benzo(a)anthracene
Concen: 1.737 ng
RT: 21.197 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.2	33.4
229	19.2	16.4	24.6





#33

Chrysene

Concen: 1.703 ng

RT: 21.251 min Scan# 2128

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

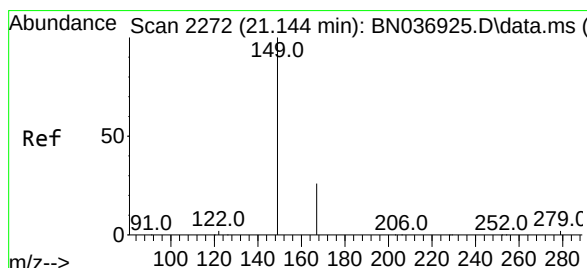
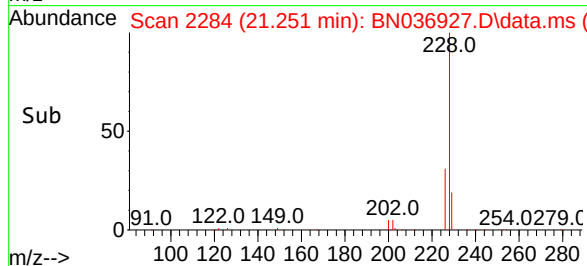
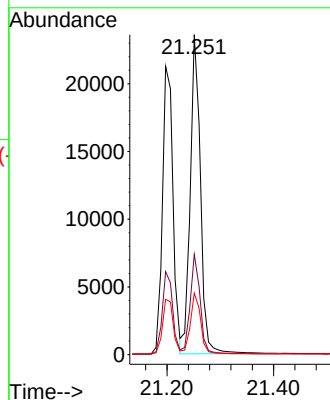
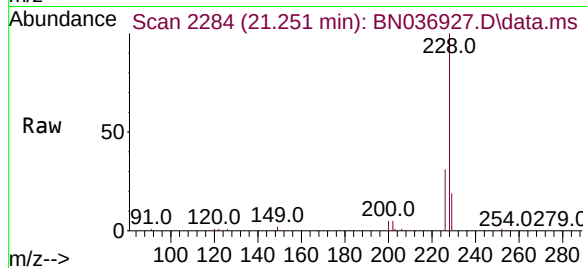
Tgt Ion:228 Resp: 31322

Ion Ratio Lower Upper

228 100

226 31.3 25.5 38.3

229 19.3 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.544 ng

RT: 21.144 min Scan# 2272

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

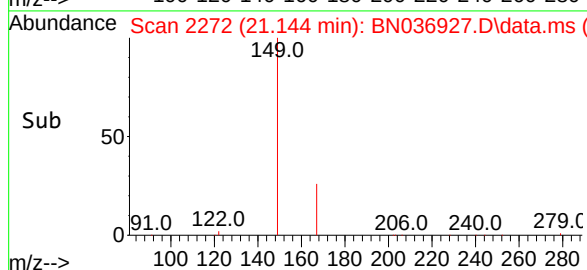
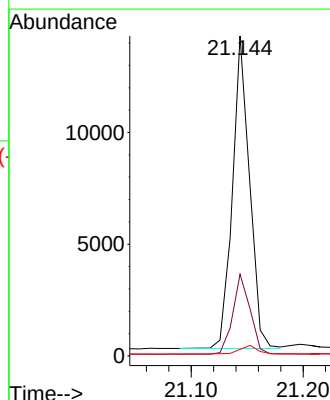
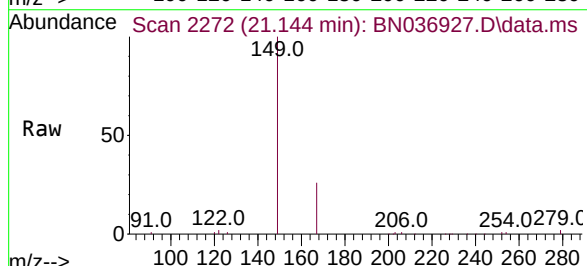
Tgt Ion:149 Resp: 14810

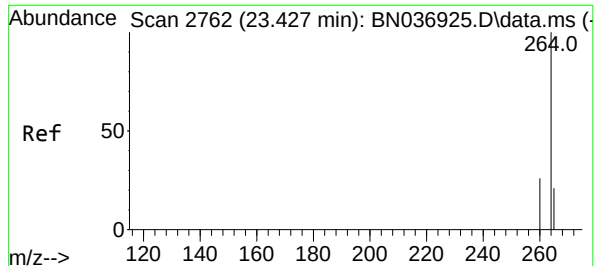
Ion Ratio Lower Upper

149 100

167 25.9 21.0 31.6

279 2.9 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.427 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

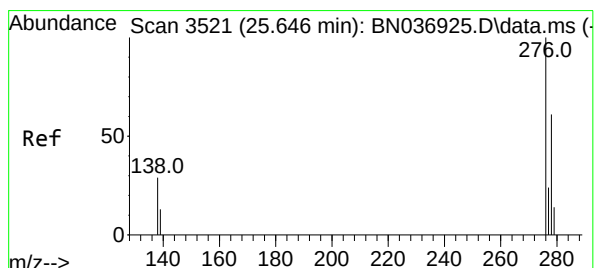
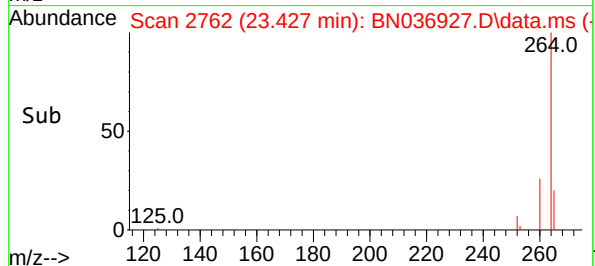
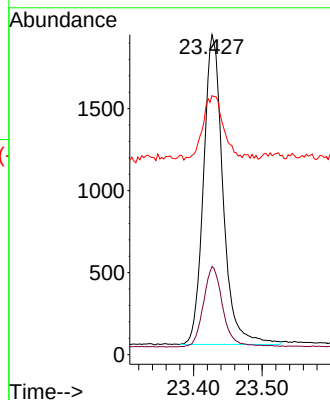
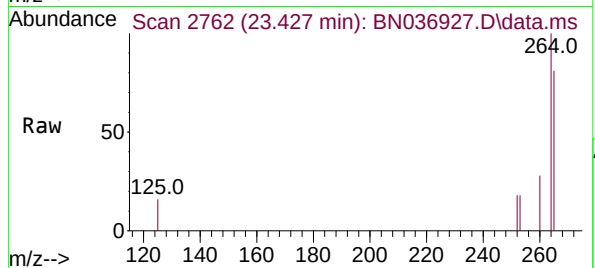
Tgt Ion:264 Resp: 3734

Ion Ratio Lower Upper

264 100

260 27.5 22.2 33.2

265 80.9 65.8 98.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.681 ng

RT: 25.643 min Scan# 3520

Delta R.T. -0.003 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

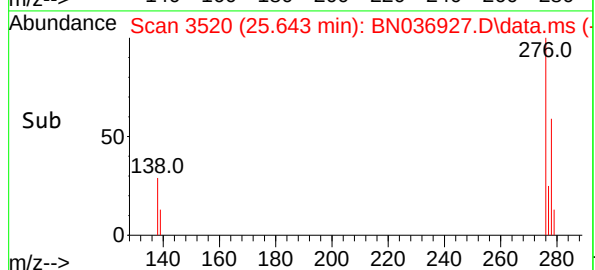
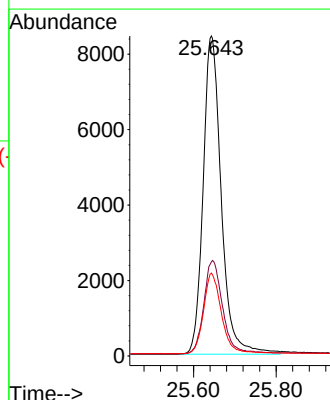
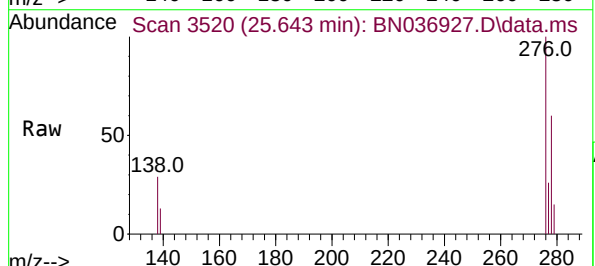
Tgt Ion:276 Resp: 25695

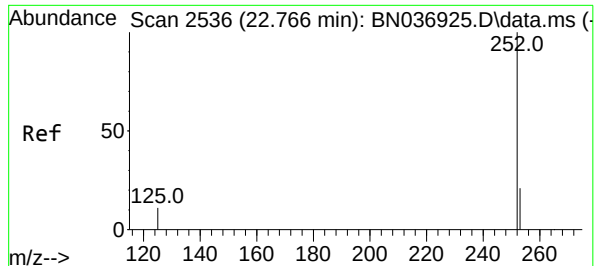
Ion Ratio Lower Upper

276 100

138 30.1 23.0 34.6

277 25.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 1.733 ng

RT: 22.763 min Scan# 2535

Delta R.T. -0.003 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

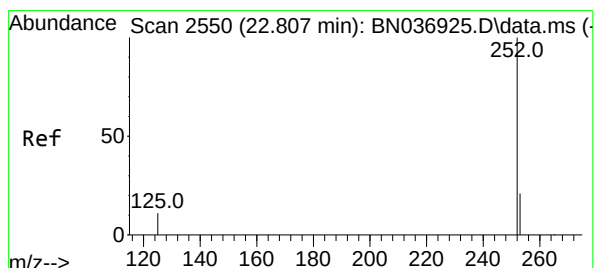
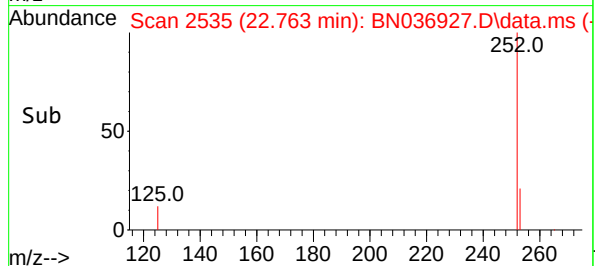
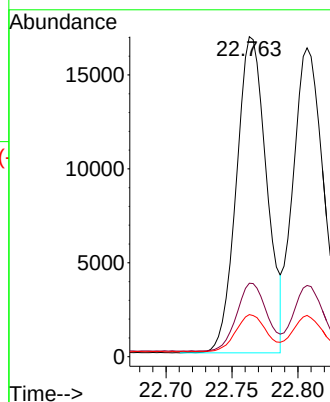
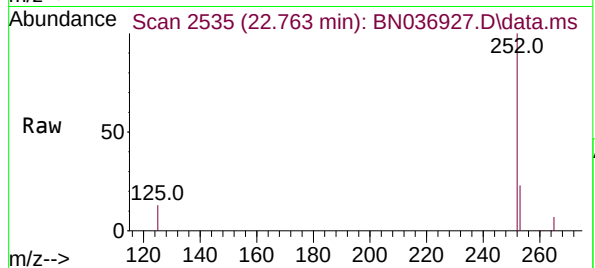
Tgt Ion:252 Resp: 26826

Ion Ratio Lower Upper

252 100

253 23.0 22.1 33.1

125 13.1 14.2 21.2#



#38

Benzo(k)fluoranthene

Concen: 1.730 ng

RT: 22.807 min Scan# 2550

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

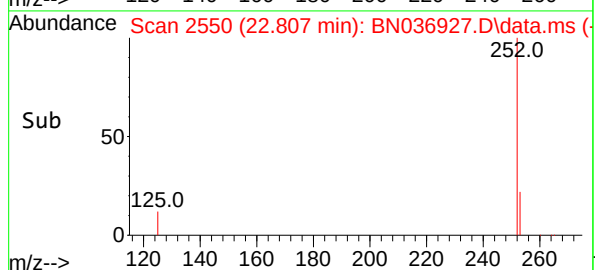
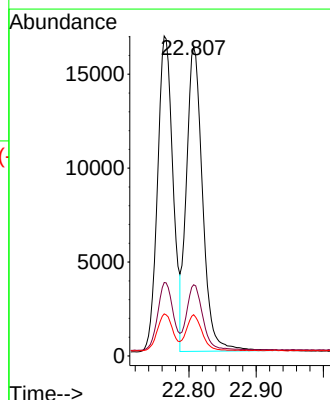
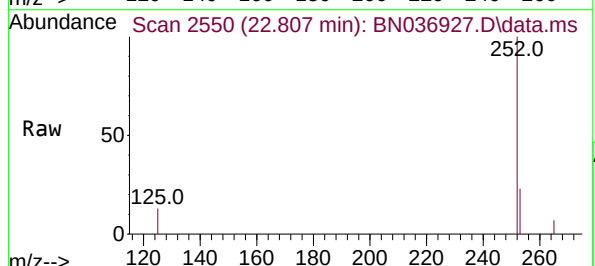
Tgt Ion:252 Resp: 27065

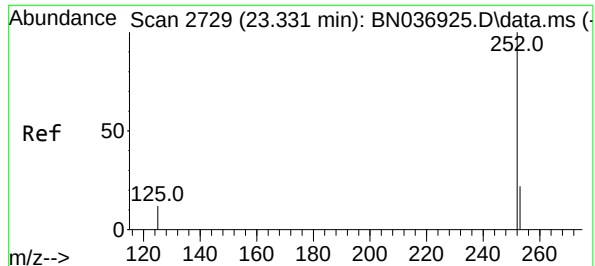
Ion Ratio Lower Upper

252 100

253 23.1 22.8 34.2

125 13.4 14.2 21.2#





#39

Benzo(a)pyrene

Concen: 1.712 ng

RT: 23.330 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

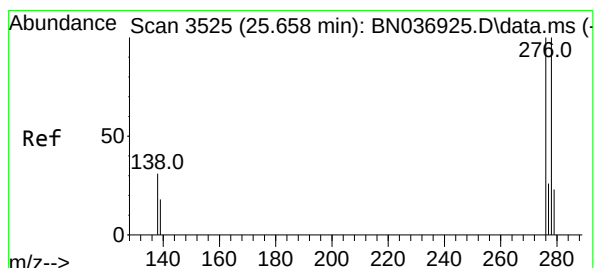
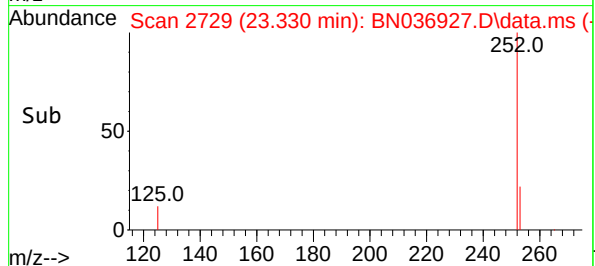
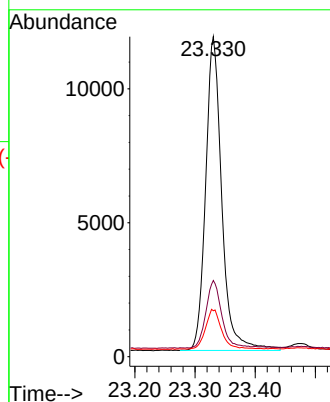
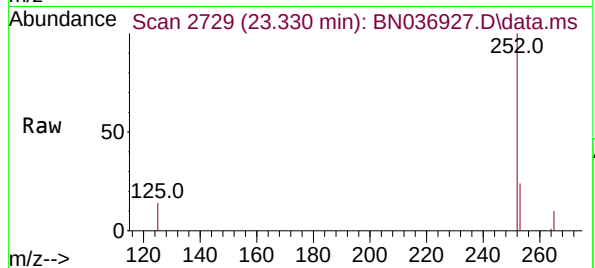
Tgt Ion:252 Resp: 21844

Ion Ratio Lower Upper

252 100

253 23.8 25.9 38.9#

125 14.4 17.4 26.0#



#40

Dibenzo(a,h)anthracene

Concen: 1.685 ng

RT: 25.658 min Scan# 3525

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

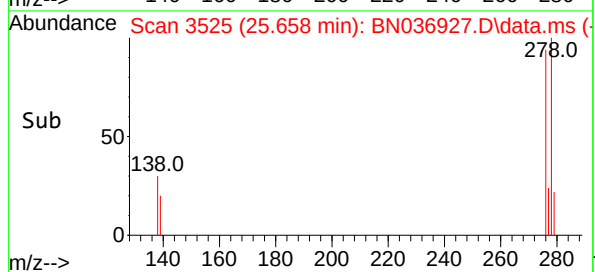
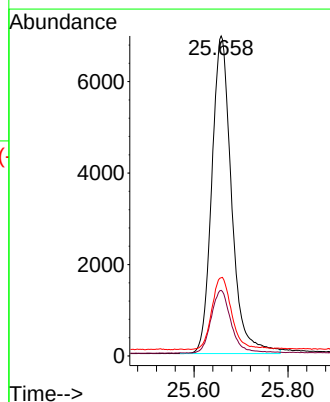
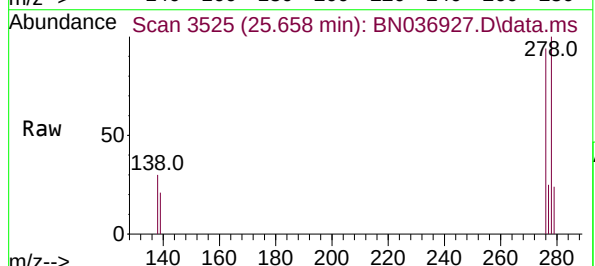
Tgt Ion:278 Resp: 20274

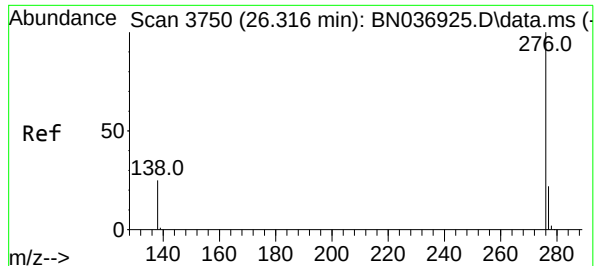
Ion Ratio Lower Upper

278 100

139 20.5 17.4 26.2

279 24.5 24.9 37.3#





#41

Benzo(g,h,i)perylene

Concen: 1.659 ng

RT: 26.324 min Scan# 31

Delta R.T. 0.009 min

Lab File: BN036927.D

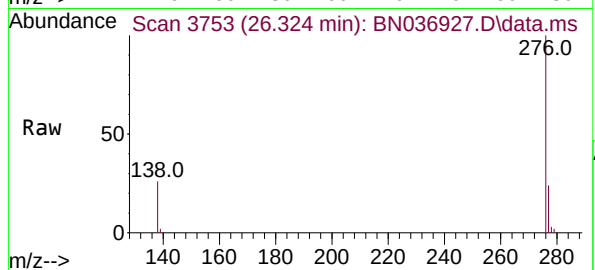
Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



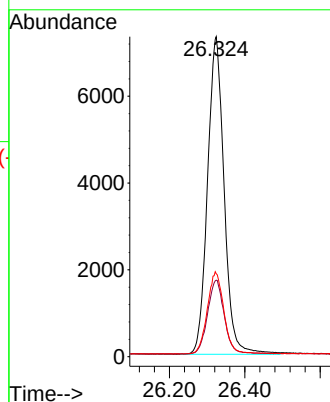
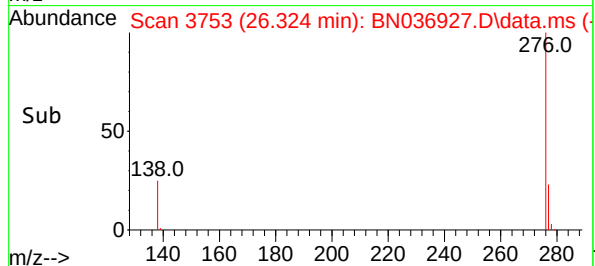
Tgt Ion:276 Resp: 22323

Ion Ratio Lower Upper

276 100

277 23.9 20.2 30.2

138 26.0 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036928.D
 Acq On : 28 Apr 2025 14:36
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Apr 28 15:14:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:11:09 2025
 Response via : Initial Calibration

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

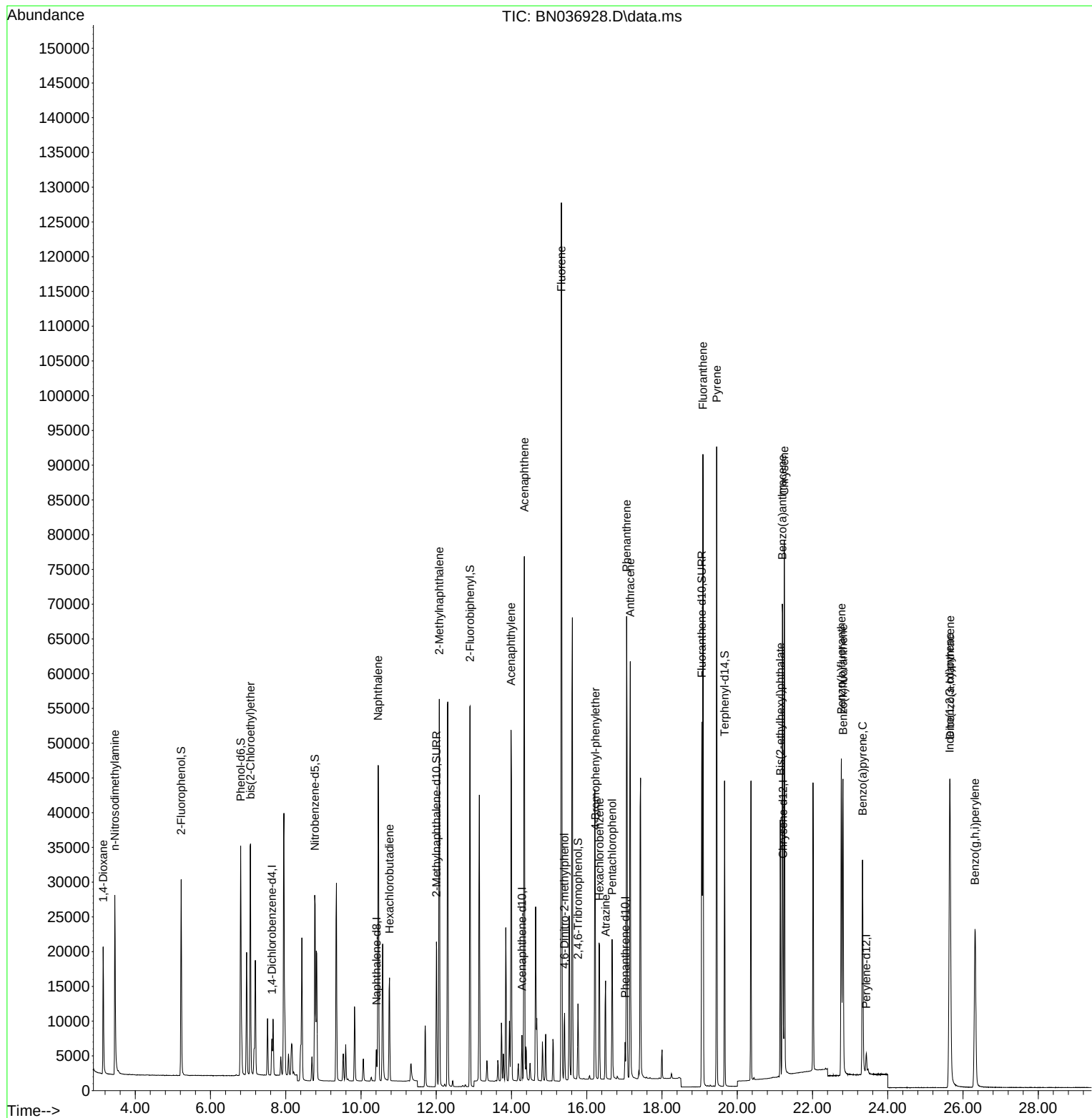
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2400	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	5910	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3394	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	6361	0.400	ng	0.00
29) Chrysene-d12	21.216	240	4896	0.400	ng	0.00
35) Perylene-d12	23.430	264	3763	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.221	112	18856	3.045	ng	0.00
5) Phenol-d6	6.802	99	24093	3.194	ng	0.00
8) Nitrobenzene-d5	8.771	82	20418	3.326	ng	-0.01
11) 2-Methylnaphthalene-d10	12.006	152	27198	3.319	ng	0.00
14) 2,4,6-Tribromophenol	15.768	330	4998	3.360	ng	0.00
15) 2-Fluorobiphenyl	12.899	172	53914	3.285	ng	0.00
27) Fluoranthene-d10	19.059	212	53576	3.290	ng	0.00
31) Terphenyl-d14	19.663	244	37287	3.200	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.148	88	9383	3.096	ng	96
3) n-Nitrosodimethylamine	3.458	42	18278	3.122	ng	# 99
6) bis(2-Chloroethyl)ether	7.062	93	22311	3.183	ng	99
9) Naphthalene	10.458	128	55337	3.217	ng	98
10) Hexachlorobutadiene	10.757	225	11705	3.121	ng	# 98
12) 2-Methylnaphthalene	12.082	142	36995	3.361	ng	98
16) Acenaphthylene	13.989	152	55247	3.362	ng	100
17) Acenaphthene	14.342	154	35171	3.236	ng	98
18) Fluorene	15.325	166	46714	3.301	ng	99
20) 4,6-Dinitro-2-methylph...	15.411	198	6093	3.823	ng	# 51
21) 4-Bromophenyl-phenylether	16.227	248	13834	3.266	ng	# 94
22) Hexachlorobenzene	16.338	284	14891	3.181	ng	99
23) Atrazine	16.500	200	11521	3.449	ng	# 91
24) Pentachlorophenol	16.674	266	8528	3.511	ng	99
25) Phenanthrene	17.058	178	68482	3.273	ng	99
26) Anthracene	17.158	178	64181	3.430	ng	100
28) Fluoranthene	19.087	202	77836	3.358	ng	99
30) Pyrene	19.454	202	77117	3.241	ng	100
32) Benzo(a)anthracene	21.198	228	59092	3.310	ng	97
33) Chrysene	21.251	228	61582	3.149	ng	98
34) Bis(2-ethylhexyl)phtha...	21.144	149	30625	3.002	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.643	276	51906	3.369	ng	98
37) Benzo(b)fluoranthene	22.766	252	52921	3.393	ng	# 89
38) Benzo(k)fluoranthene	22.810	252	53706	3.406	ng	# 88
39) Benzo(a)pyrene	23.331	252	43554	3.387	ng	# 83
40) Dibenzo(a,h)anthracene	25.655	278	41500	3.423	ng	# 91
41) Benzo(g,h,i)perylene	26.319	276	44250	3.263	ng	98

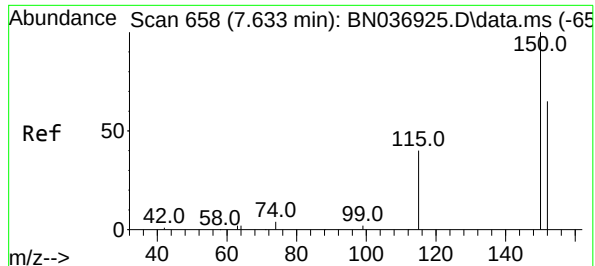
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036928.D
Acq On : 28 Apr 2025 14:36
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

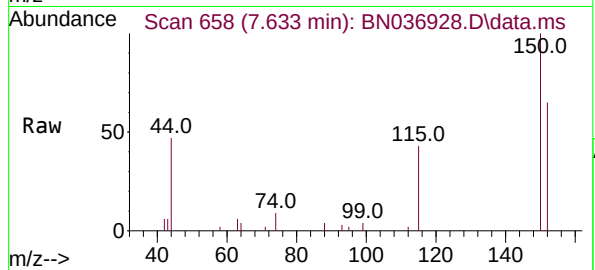
Quant Time: Apr 28 15:14:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration



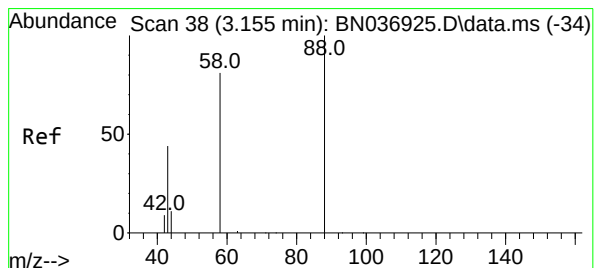
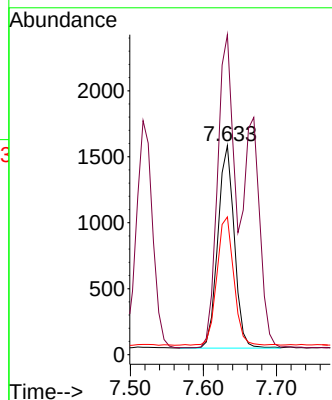
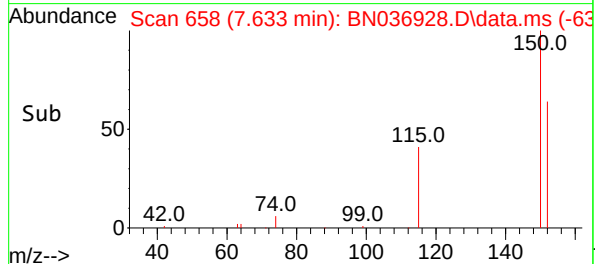


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

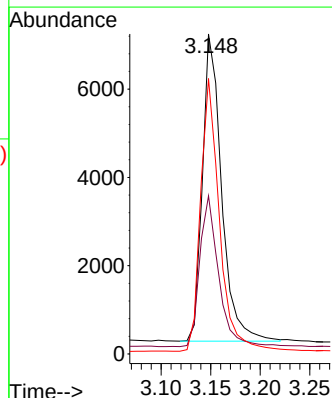
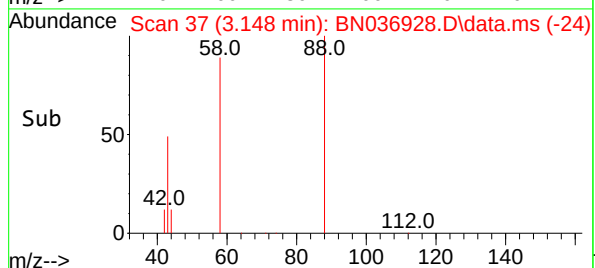
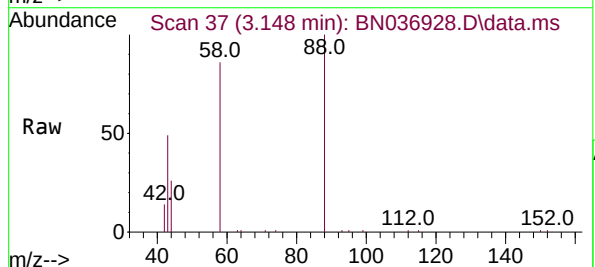


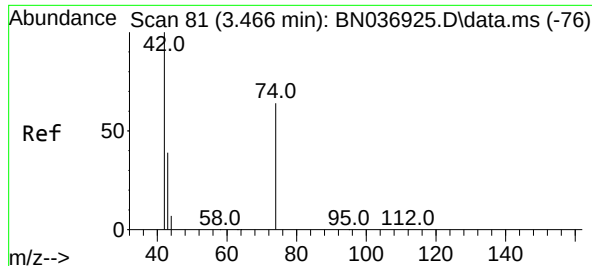
Tgt Ion:152 Resp: 2400
Ion Ratio Lower Upper
152 100
150 153.0 121.1 181.7
115 65.9 51.8 77.6



#2
1,4-Dioxane
Concen: 3.096 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion: 88 Resp: 9383
Ion Ratio Lower Upper
88 100
43 48.3 37.9 56.9
58 87.1 65.8 98.6

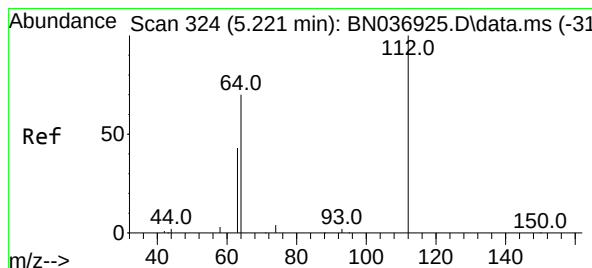
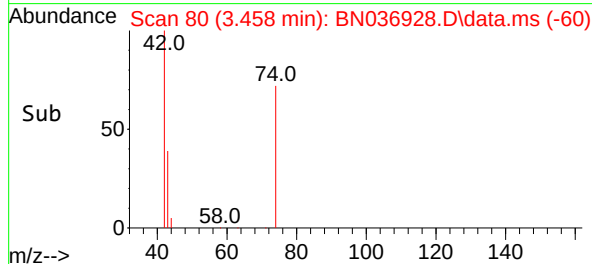
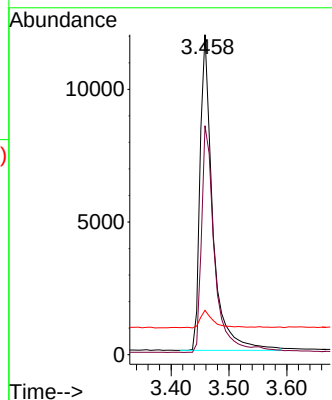
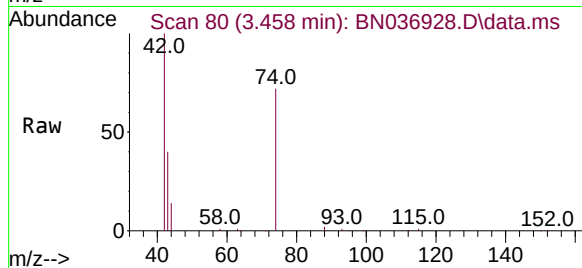




#3
n-Nitrosodimethylamine
Concen: 3.122 ng
RT: 3.458 min Scan# 80
Delta R.T. -0.007 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

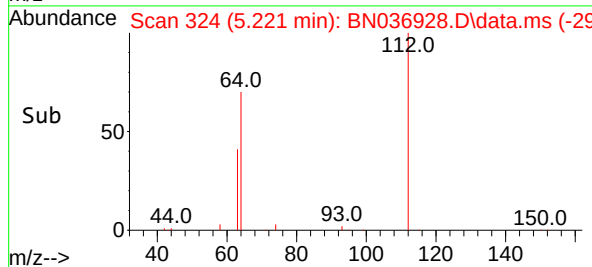
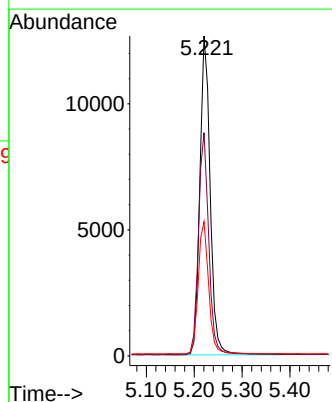
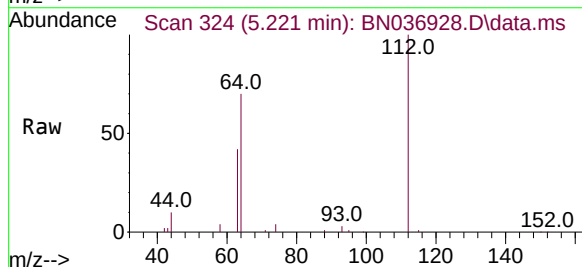
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

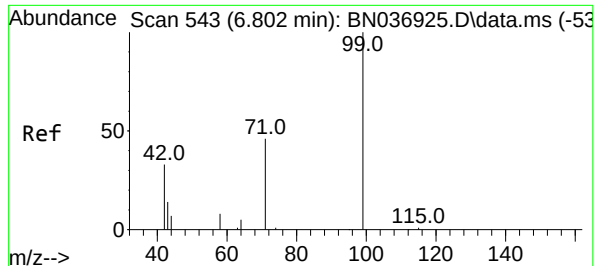
Tgt Ion: 42 Resp: 18278
Ion Ratio Lower Upper
42 100
74 74.8 59.9 89.9
44 5.4 7.5 11.3#



#4
2-Fluorophenol
Concen: 3.045 ng
RT: 5.221 min Scan# 324
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion: 112 Resp: 18856
Ion Ratio Lower Upper
112 100
64 69.6 55.7 83.5
63 42.0 33.9 50.9





#5

Phenol-d6

Concen: 3.194 ng

RT: 6.802 min Scan# 543

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

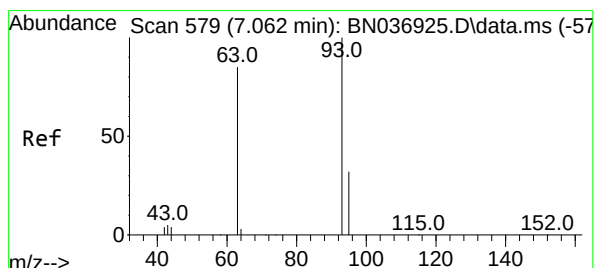
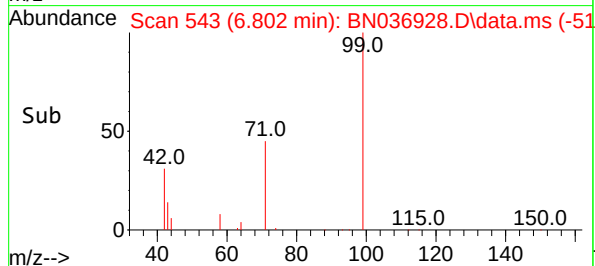
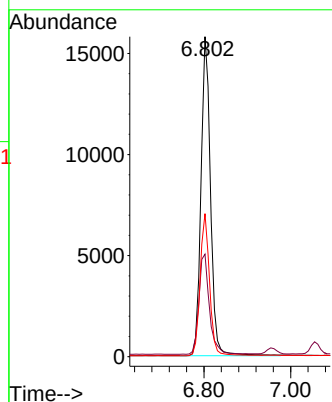
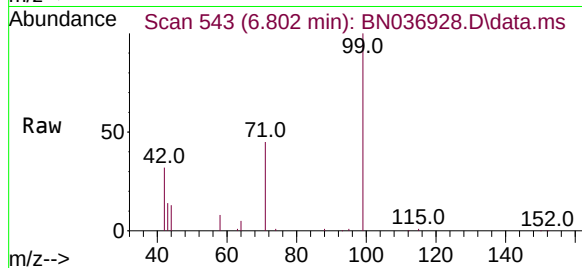
Tgt Ion: 99 Resp: 24093

Ion Ratio Lower Upper

99 100

42 35.0 29.6 44.4

71 44.3 36.0 54.0



#6

bis(2-Chloroethyl)ether

Concen: 3.183 ng

RT: 7.062 min Scan# 579

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

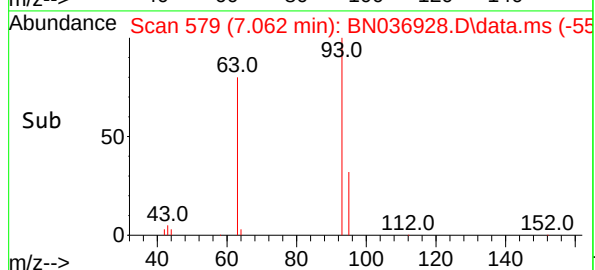
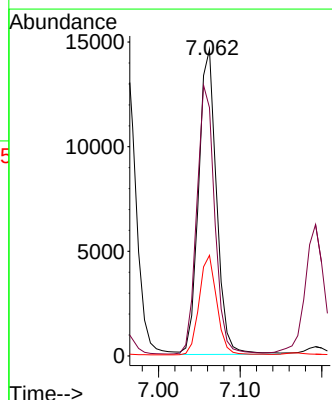
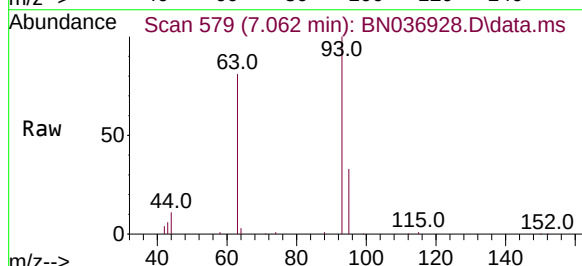
Tgt Ion: 93 Resp: 22311

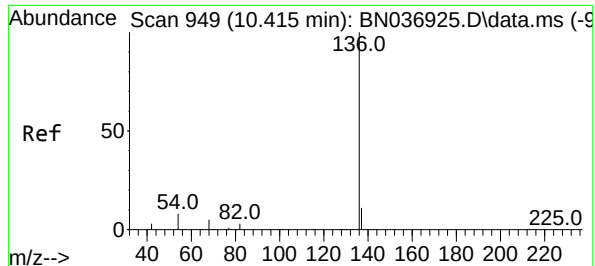
Ion Ratio Lower Upper

93 100

63 87.8 69.0 103.6

95 32.2 25.4 38.0

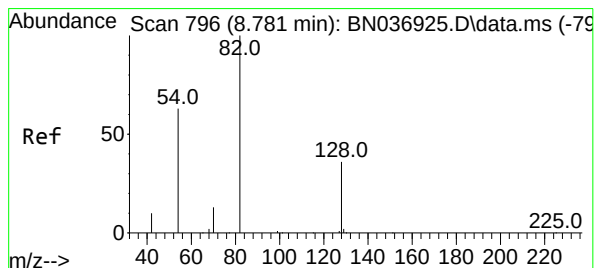
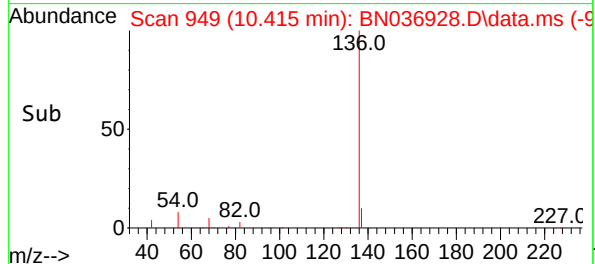
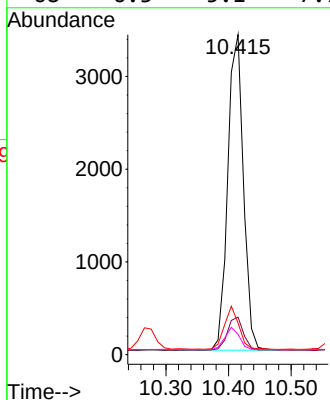
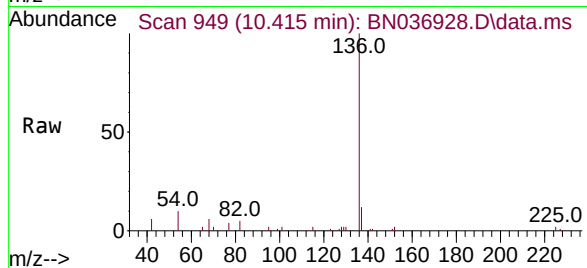




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

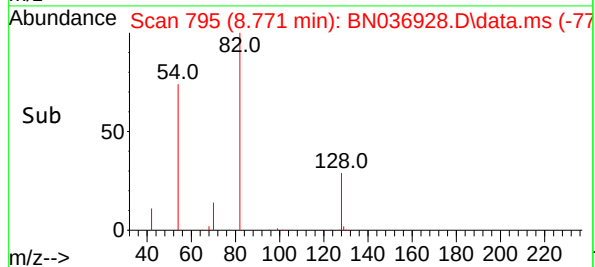
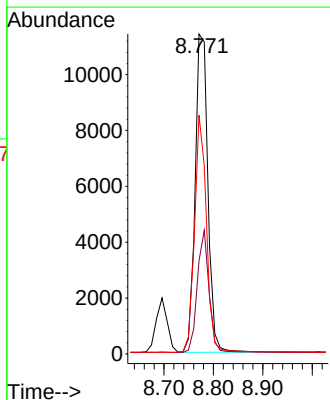
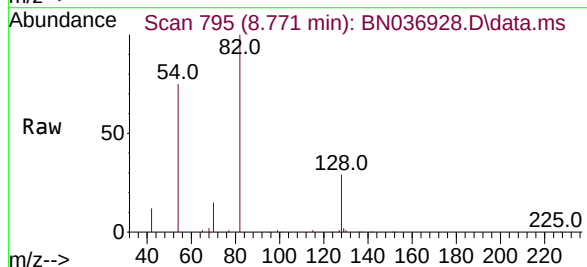
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

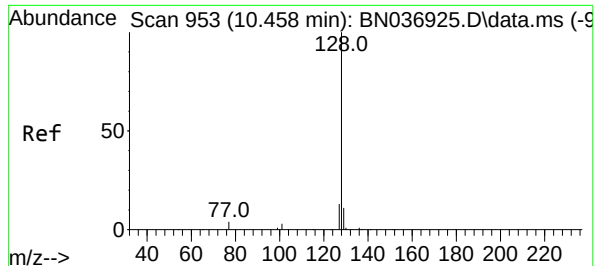
Tgt Ion:136 Resp: 5910
Ion Ratio Lower Upper
136 100
137 11.7 9.7 14.5
54 9.9 8.0 12.0
68 6.3 5.1 7.7



#8
Nitrobenzene-d5
Concen: 3.326 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.011 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion: 82 Resp: 20418
Ion Ratio Lower Upper
82 100
128 29.1 30.7 46.1#
54 74.6 52.1 78.1

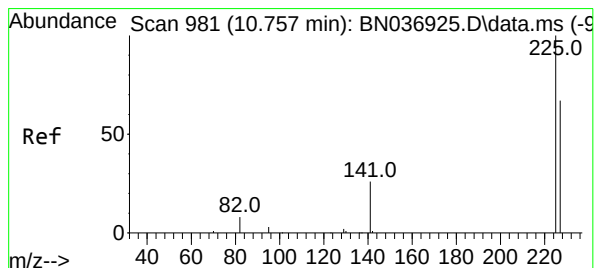
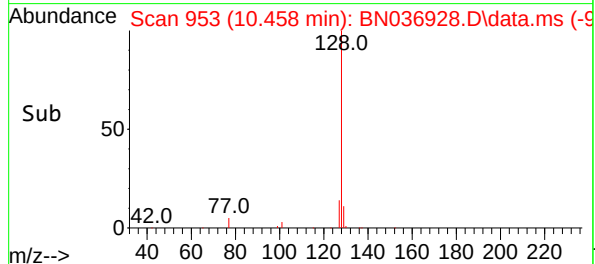
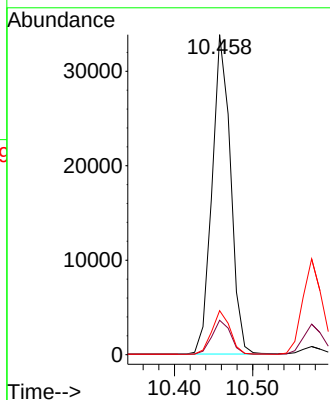
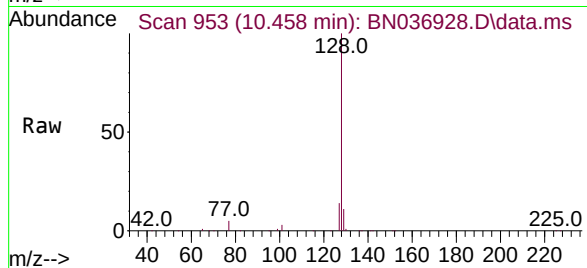




#9
Naphthalene
Concen: 3.217 ng
RT: 10.458 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

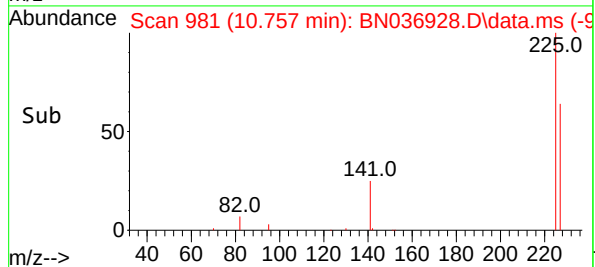
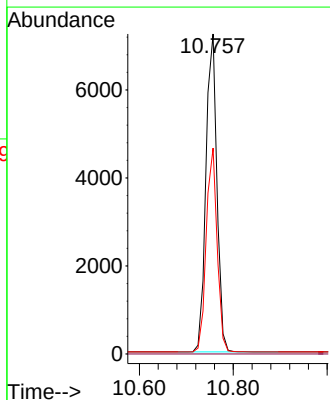
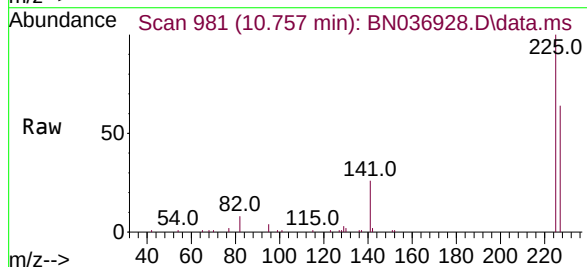
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

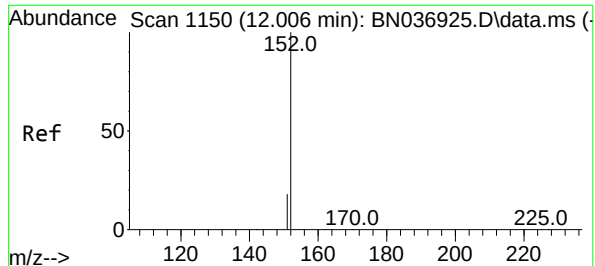
Tgt Ion:128 Resp: 55337
Ion Ratio Lower Upper
128 100
129 10.8 9.8 14.6
127 13.8 11.4 17.2



#10
Hexachlorobutadiene
Concen: 3.121 ng
RT: 10.757 min Scan# 981
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:225 Resp: 11705
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 52.2 78.4

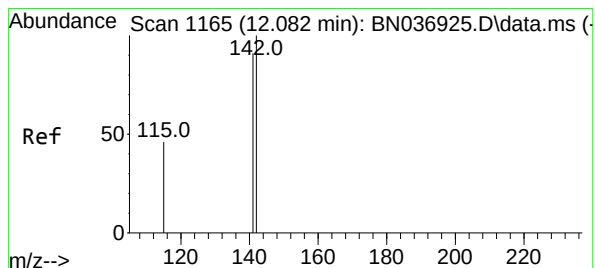
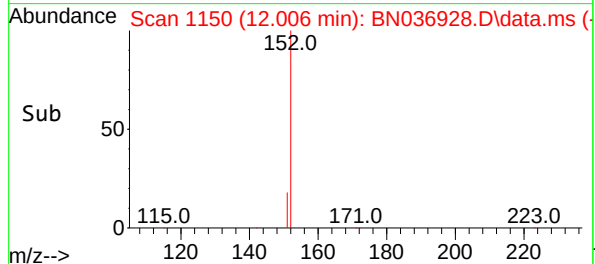
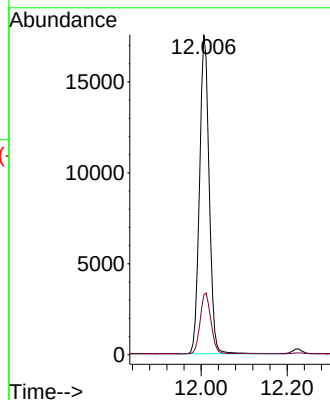
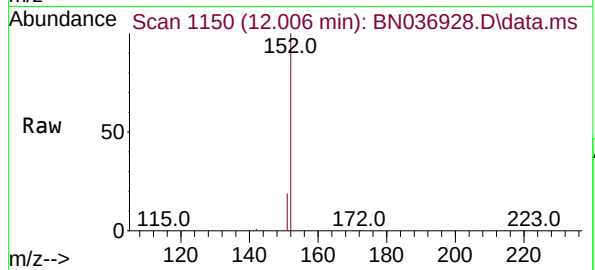




#11
2-Methylnaphthalene-d10
Concen: 3.319 ng
RT: 12.006 min Scan# 1150
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

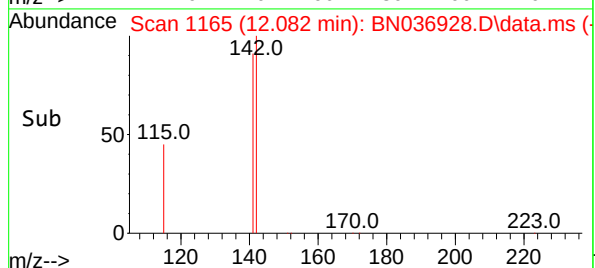
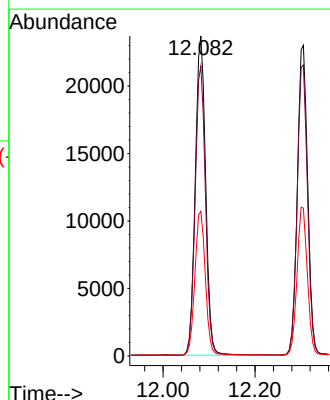
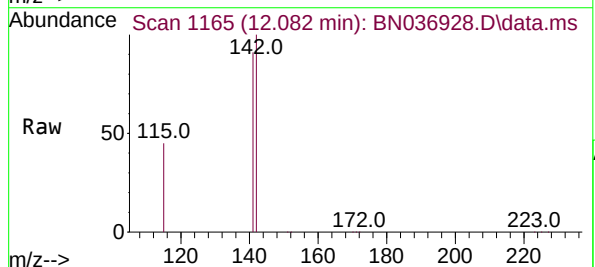
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

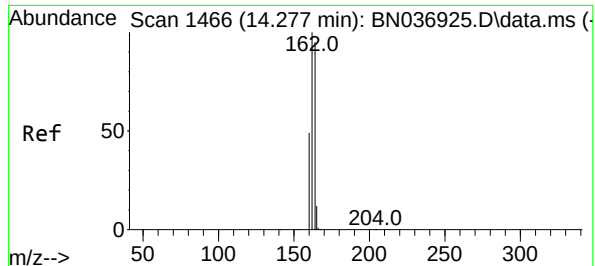
Tgt Ion:152 Resp: 27198
Ion Ratio Lower Upper
152 100
151 21.3 16.9 25.3



#12
2-Methylnaphthalene
Concen: 3.361 ng
RT: 12.082 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:142 Resp: 36995
Ion Ratio Lower Upper
142 100
141 90.6 72.8 109.2
115 45.2 38.2 57.4

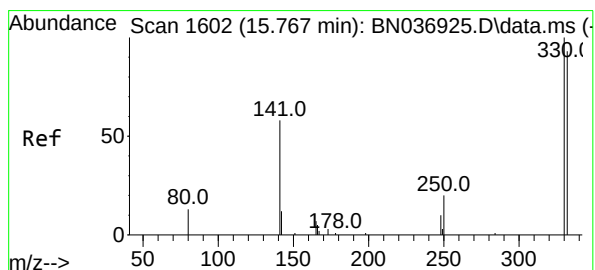
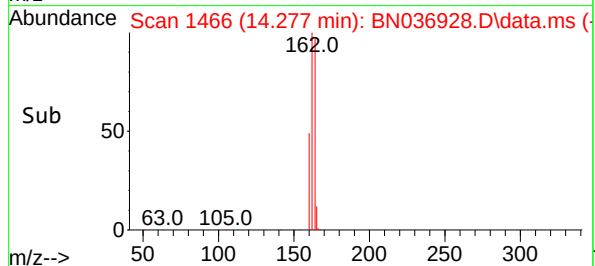
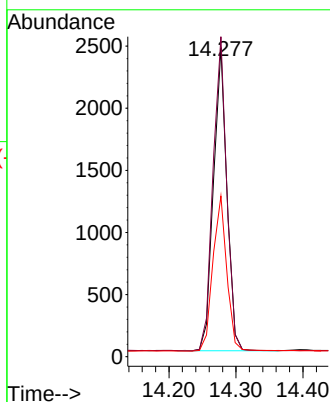
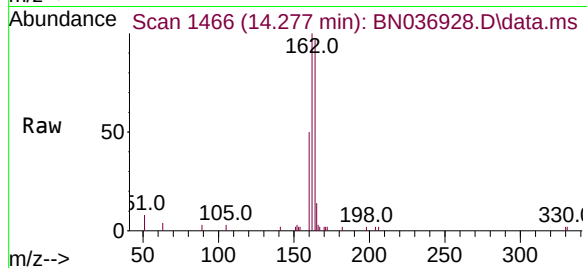




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

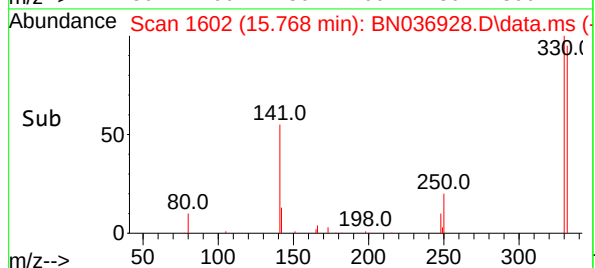
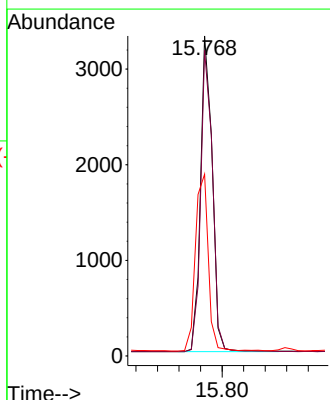
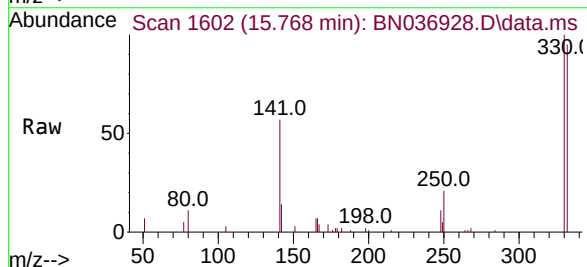
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

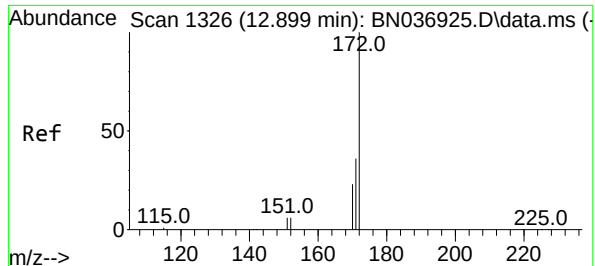
Tgt Ion	164	162	160
Resp:	3394		
Ion Ratio	100	103.5	51.9
Lower		83.8	42.0
Upper		125.8	63.0



#14
2,4,6-Tribromophenol
Concen: 3.360 ng
RT: 15.768 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion	330	332	141
Resp:	4998		
Ion Ratio	100	96.6	61.6
Lower		76.3	45.4
Upper		114.5	68.2

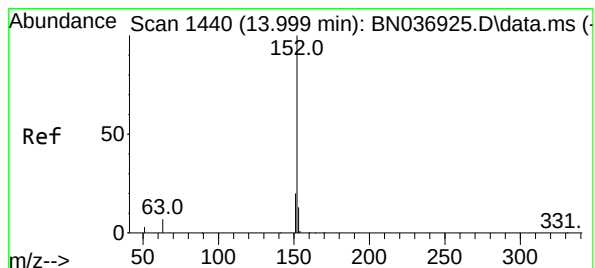
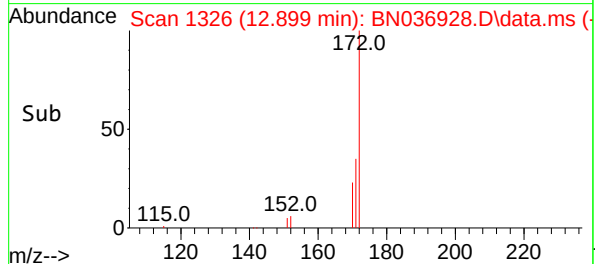
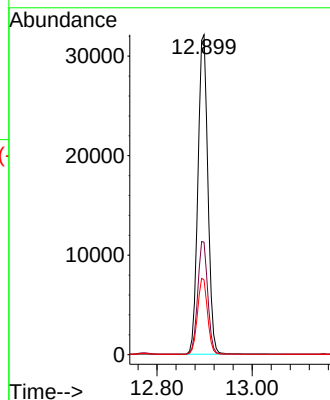
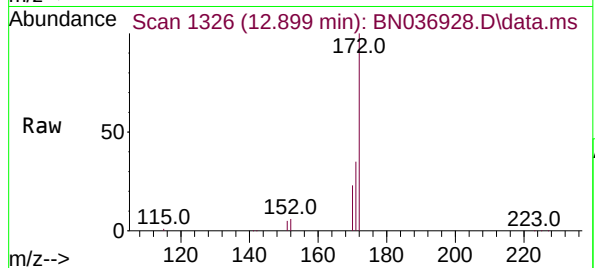




#15
2-Fluorobiphenyl
Concen: 3.285 ng
RT: 12.899 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

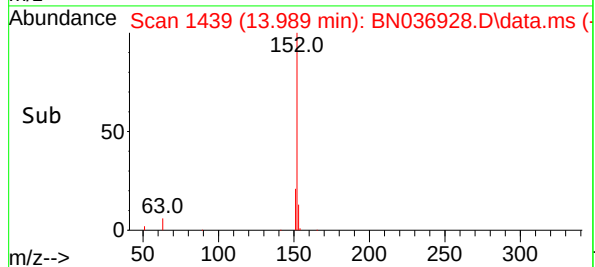
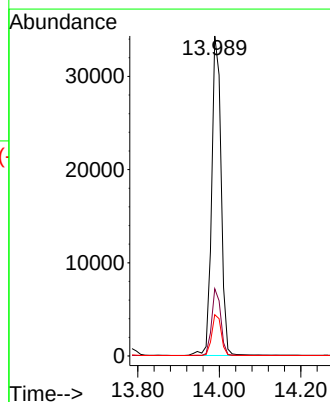
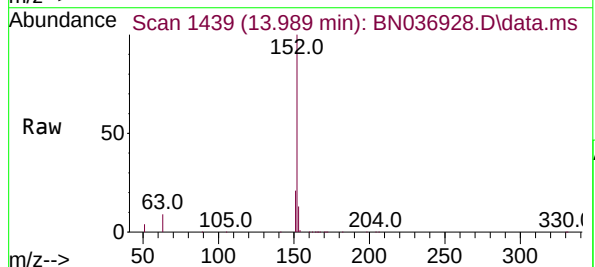
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

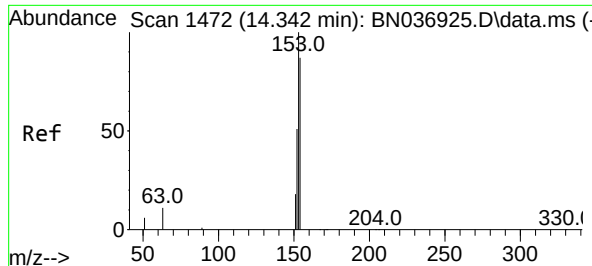
Tgt Ion:172 Resp: 53914
Ion Ratio Lower Upper
172 100
171 35.2 29.4 44.0
170 23.4 19.4 29.0



#16
Acenaphthylene
Concen: 3.362 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:152 Resp: 55247
Ion Ratio Lower Upper
152 100
151 20.1 16.0 24.0
153 12.8 10.2 15.2

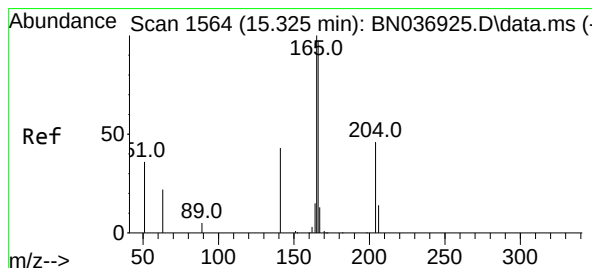
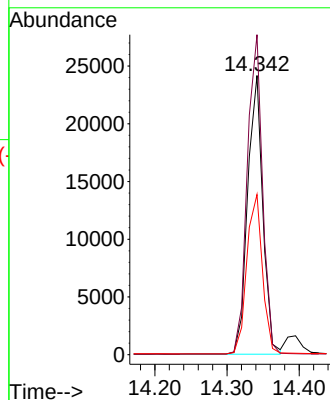
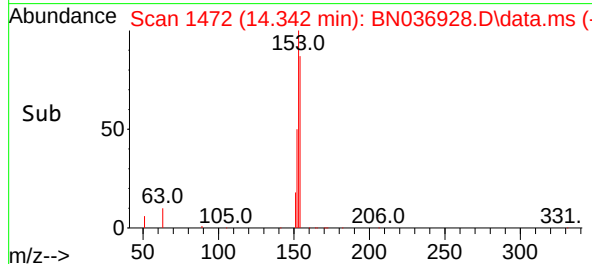
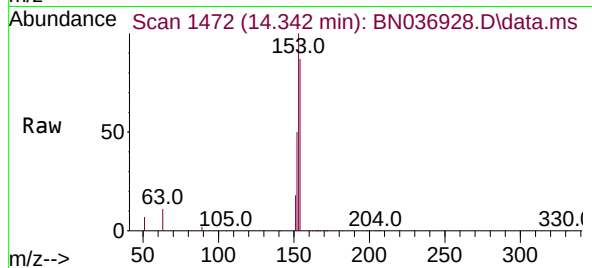




#17
Acenaphthene
Concen: 3.236 ng
RT: 14.342 min Scan# 1472
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

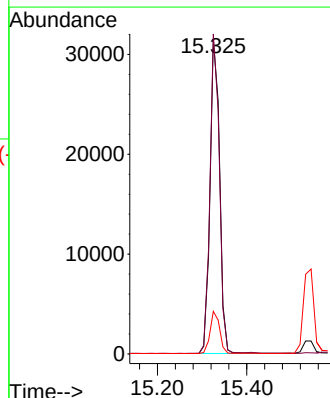
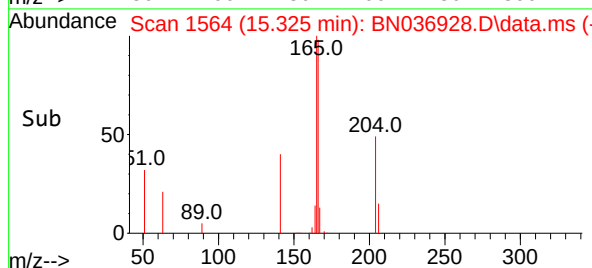
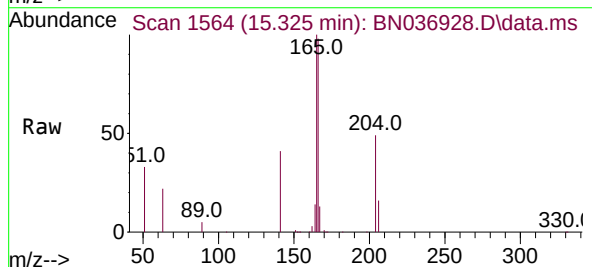
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

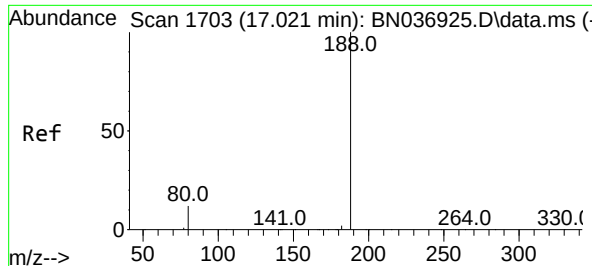
Tgt Ion:154 Resp: 35171
Ion Ratio Lower Upper
154 100
153 115.7 93.4 140.2
152 59.7 49.5 74.3



#18
Fluorene
Concen: 3.301 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:166 Resp: 46714
Ion Ratio Lower Upper
166 100
165 99.7 80.8 121.2
167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

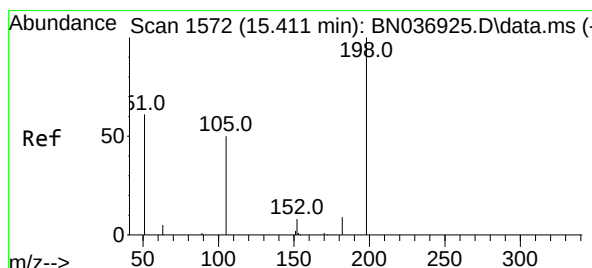
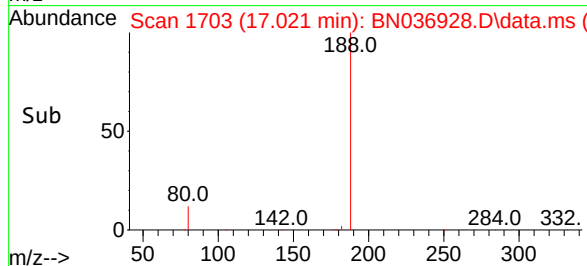
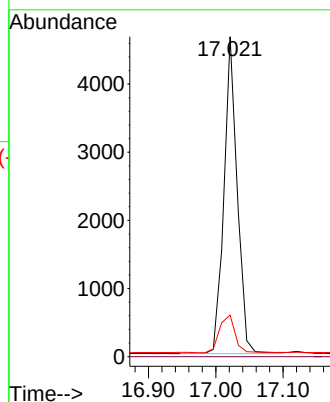
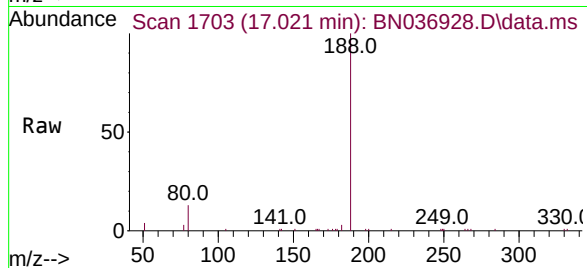
Tgt Ion:188 Resp: 6361

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.0 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 3.823 ng

RT: 15.411 min Scan# 1572

Delta R.T. -0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

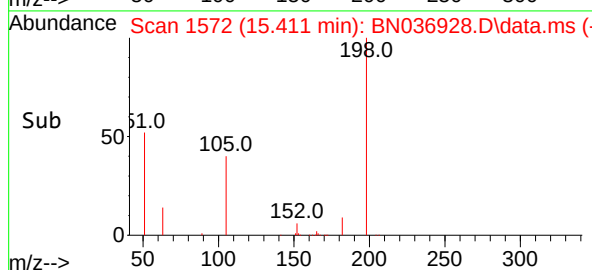
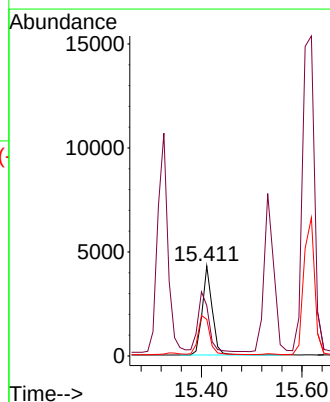
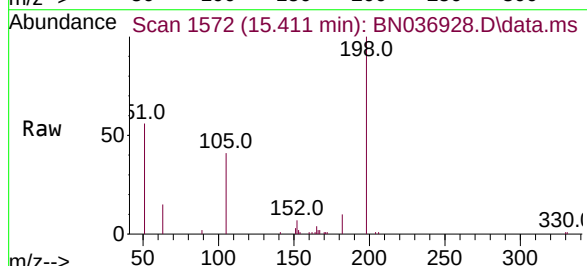
Tgt Ion:198 Resp: 6093

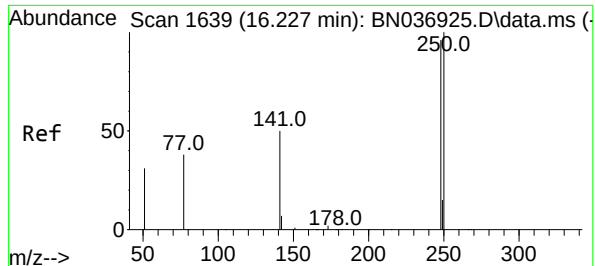
Ion Ratio Lower Upper

198 100

51 56.0 97.9 146.9#

105 40.7 50.0 75.0#

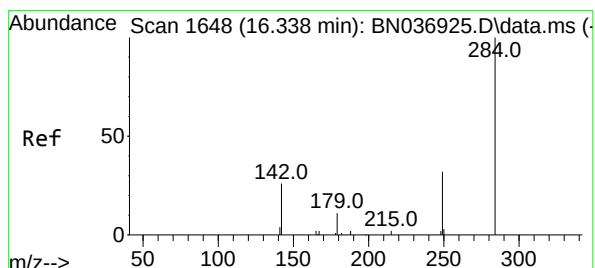
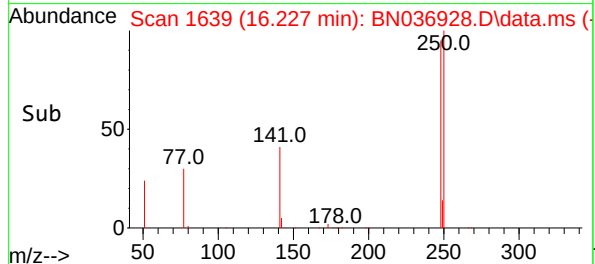
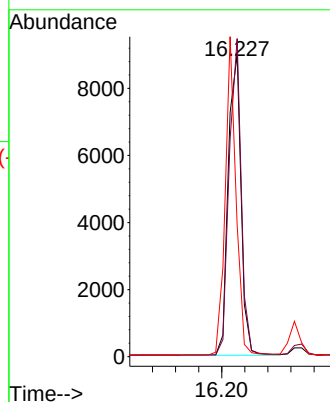
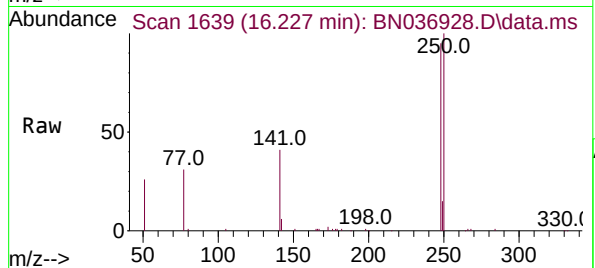




#21
4-Bromophenyl-phenylether
Concen: 3.266 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

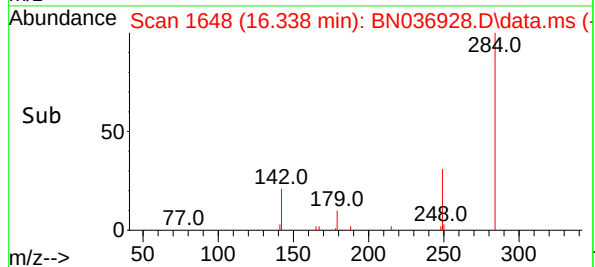
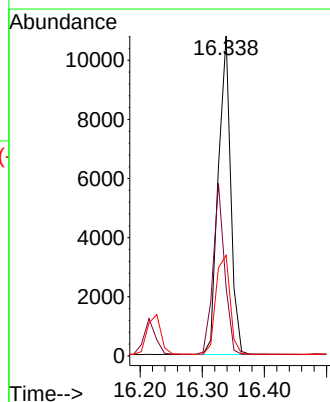
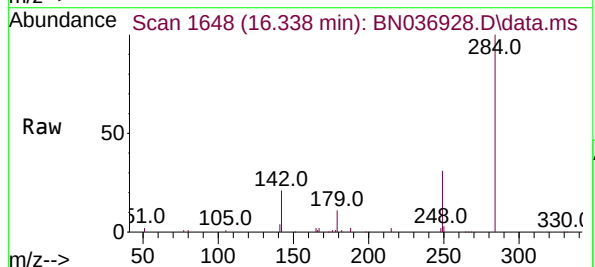
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

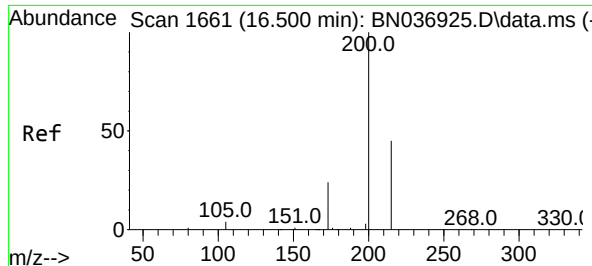
Tgt Ion	Ratio	Lower	Upper
248	100		
250	105.4	83.7	125.5
141	43.6	43.8	65.8



#22
Hexachlorobenzene
Concen: 3.181 ng
RT: 16.338 min Scan# 1648
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion	Ratio	Lower	Upper
284	100		
142	50.5	40.0	60.0
249	35.8	28.2	42.2

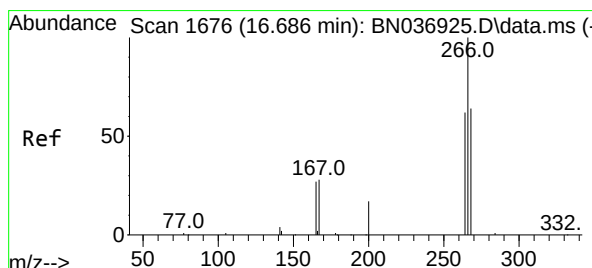
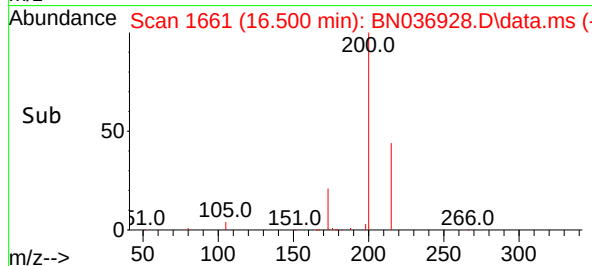
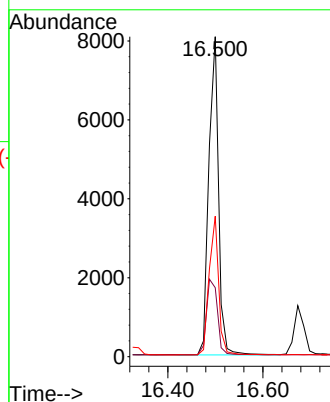
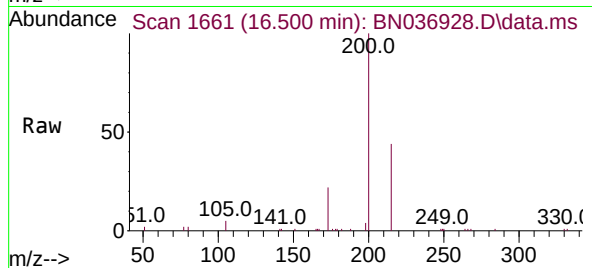




#23
Atrazine
Concen: 3.449 ng
RT: 16.500 min Scan# 1661
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

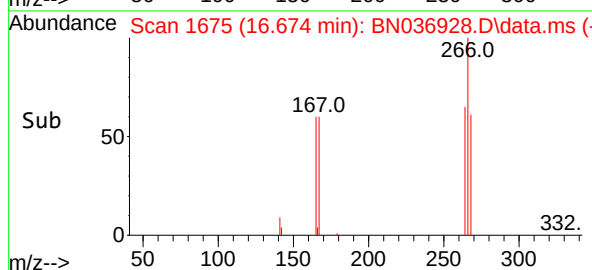
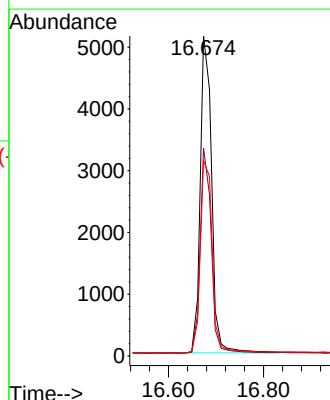
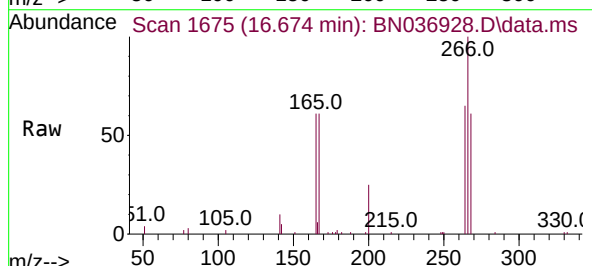
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

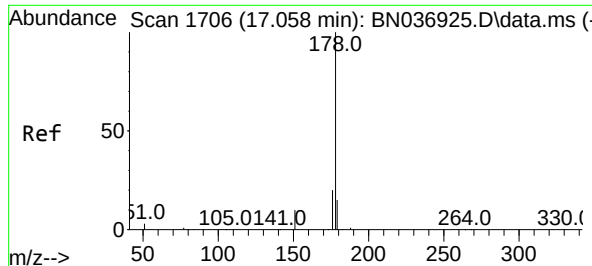
Tgt Ion	Ratio	Lower	Upper
200	100		
173	21.6	22.4	33.6#
215	43.9	38.6	57.8



#24
Pentachlorophenol
Concen: 3.511 ng
RT: 16.674 min Scan# 1675
Delta R.T. -0.012 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.8	49.9	74.9
268	63.7	52.2	78.4

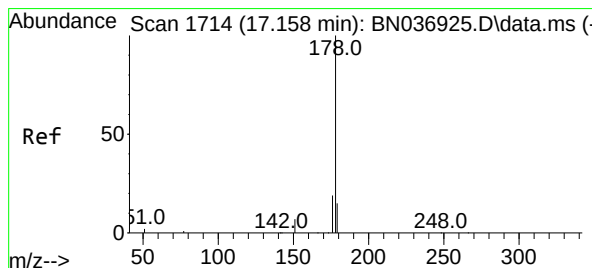
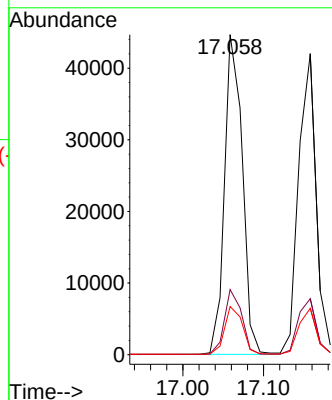
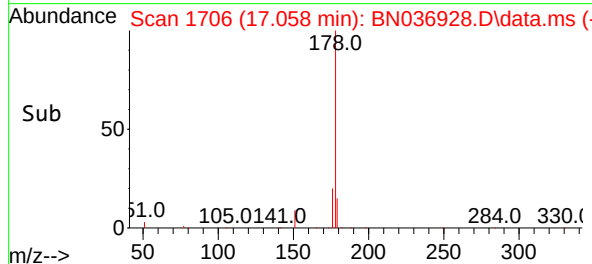
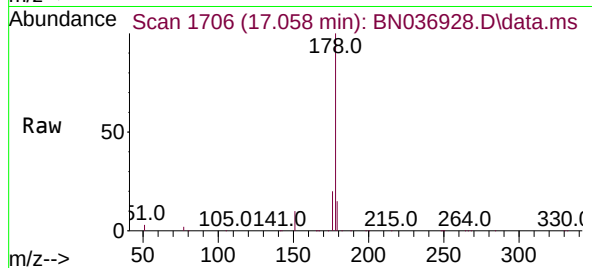




#25
Phenanthrene
Concen: 3.273 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

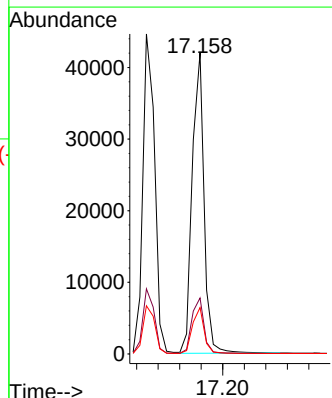
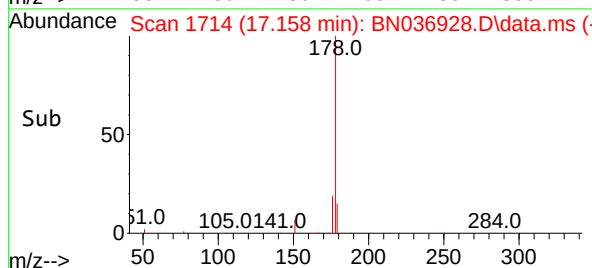
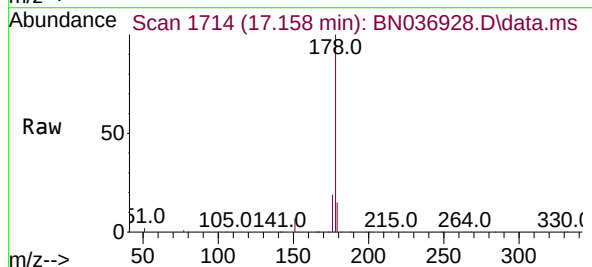
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

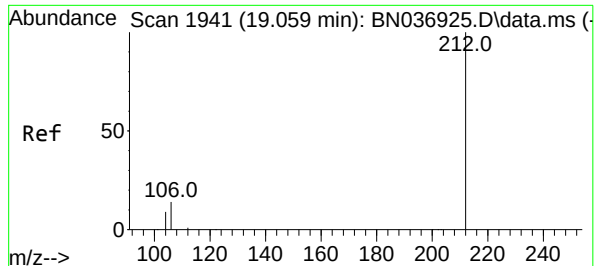
Tgt Ion:178 Resp: 68482
Ion Ratio Lower Upper
178 100
176 19.8 15.7 23.5
179 15.1 12.4 18.6



#26
Anthracene
Concen: 3.430 ng
RT: 17.158 min Scan# 1714
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:178 Resp: 64181
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.2 12.1 18.1





#27

Fluoranthene-d10

Concen: 3.290 ng

RT: 19.059 min Scan# 1941

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

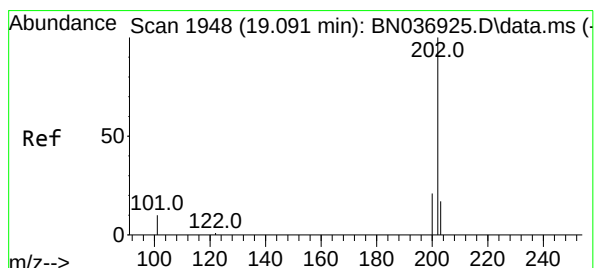
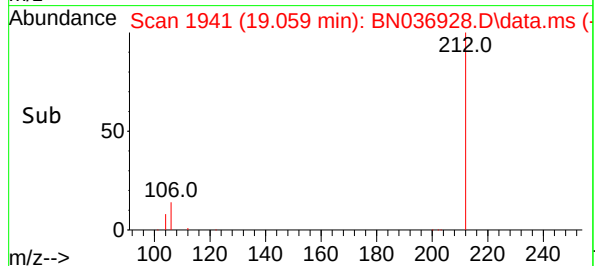
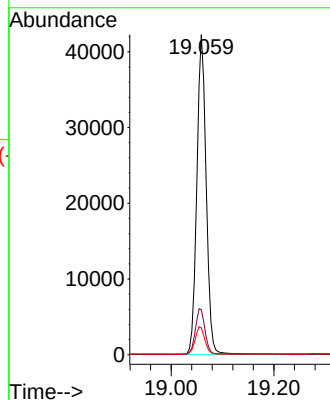
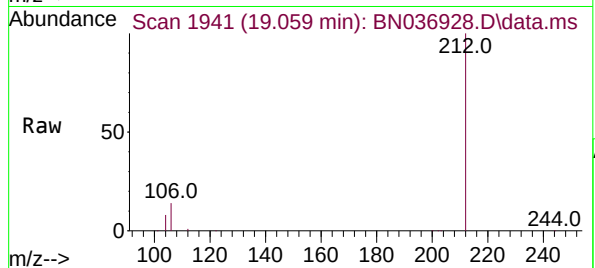
Tgt Ion:212 Resp: 53576

Ion Ratio Lower Upper

212 100

106 14.7 11.6 17.4

104 8.8 7.0 10.4



#28

Fluoranthene

Concen: 3.358 ng

RT: 19.087 min Scan# 1947

Delta R.T. -0.005 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

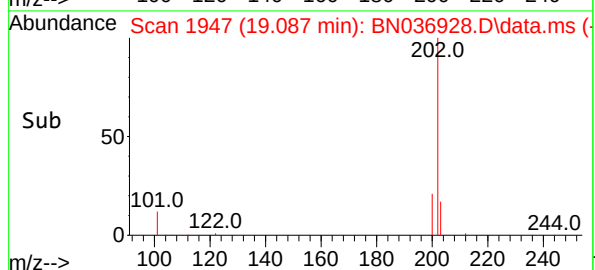
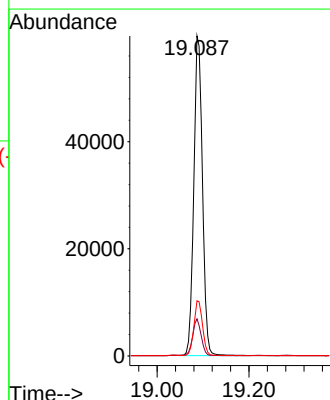
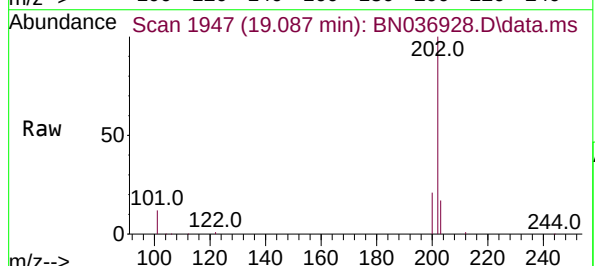
Tgt Ion:202 Resp: 77836

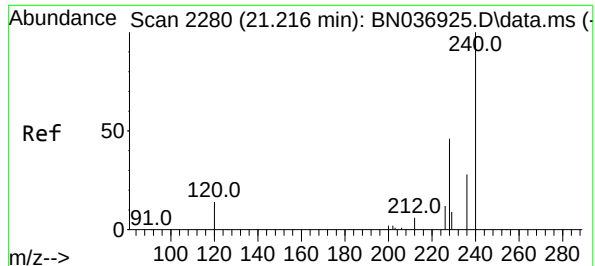
Ion Ratio Lower Upper

202 100

101 11.5 8.5 12.7

203 17.2 13.7 20.5

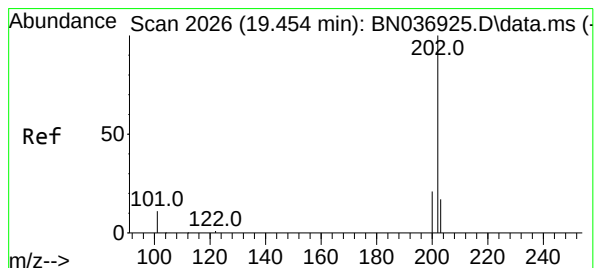
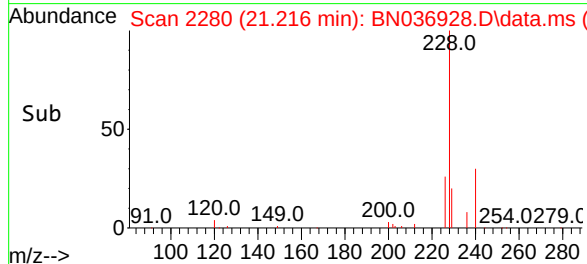
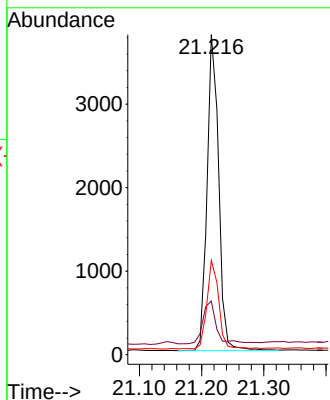
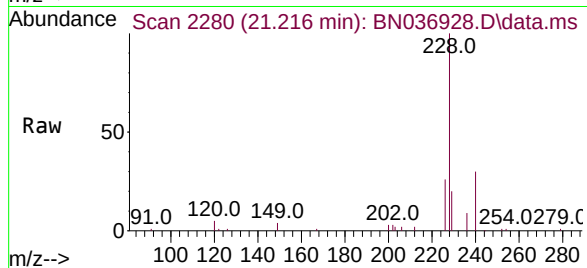




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.216 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

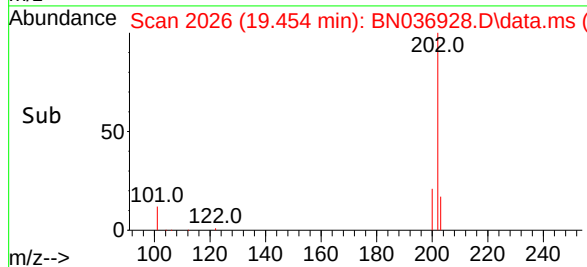
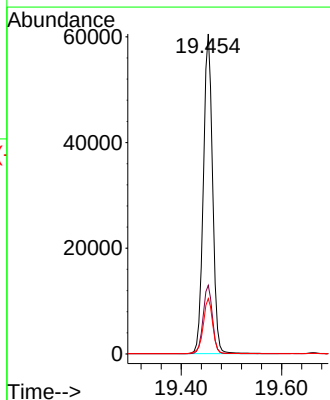
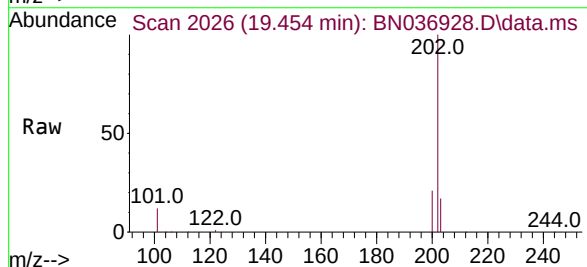
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

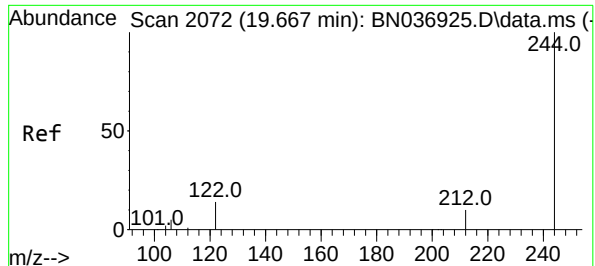
Tgt Ion:240 Resp: 4896
Ion Ratio Lower Upper
240 100
120 16.7 14.1 21.1
236 29.5 23.8 35.8



#30
Pyrene
Concen: 3.241 ng
RT: 19.454 min Scan# 2026
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:202 Resp: 77117
Ion Ratio Lower Upper
202 100
200 21.5 17.0 25.6
203 17.7 14.0 21.0

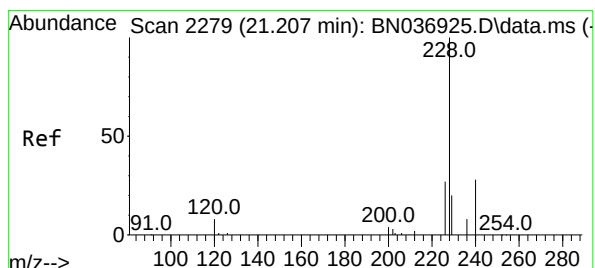
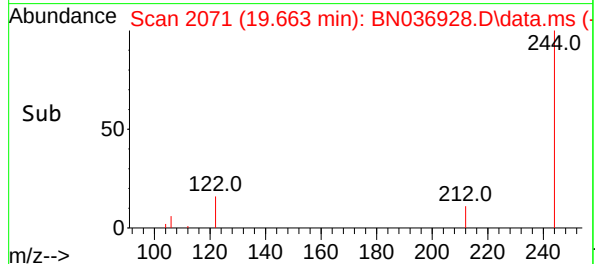
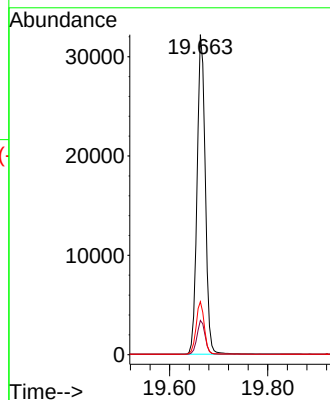
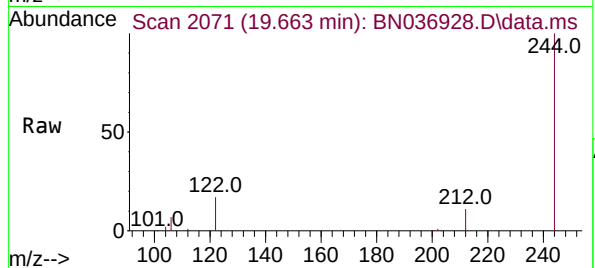




#31
Terphenyl-d14
Concen: 3.200 ng
RT: 19.663 min Scan# 2071
Delta R.T. -0.005 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

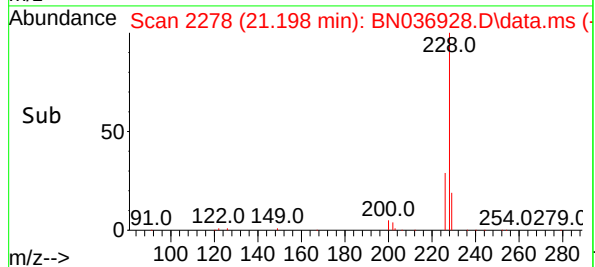
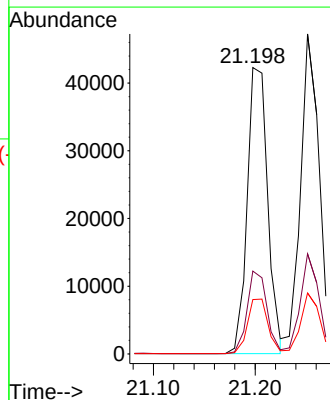
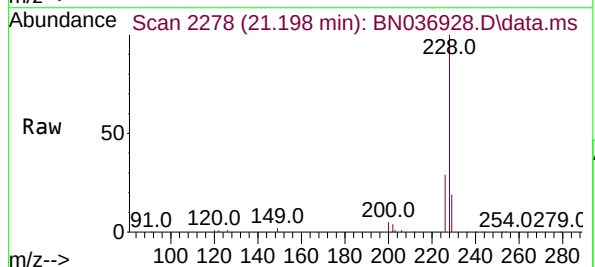
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

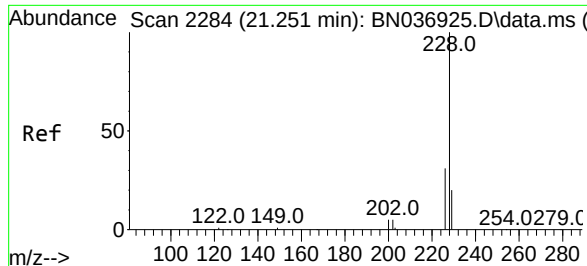
Tgt Ion:244 Resp: 37287
Ion Ratio Lower Upper
244 100
212 10.7 9.6 14.4
122 16.5 12.7 19.1



#32
Benzo(a)anthracene
Concen: 3.310 ng
RT: 21.198 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:228 Resp: 59092
Ion Ratio Lower Upper
228 100
226 29.0 22.2 33.4
229 19.0 16.4 24.6





#33

Chrysene

Concen: 3.149 ng

RT: 21.251 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

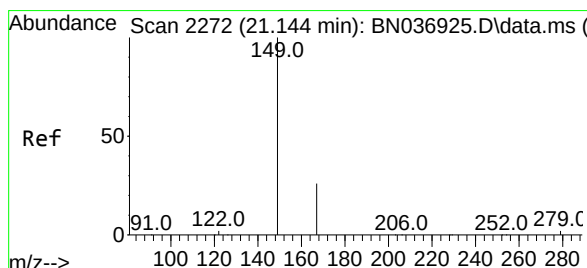
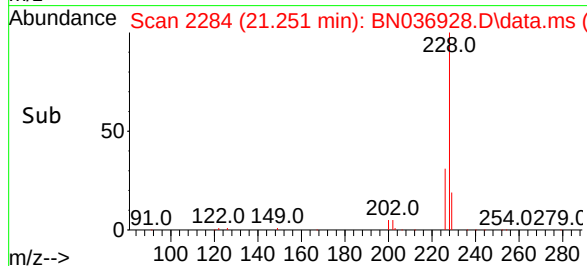
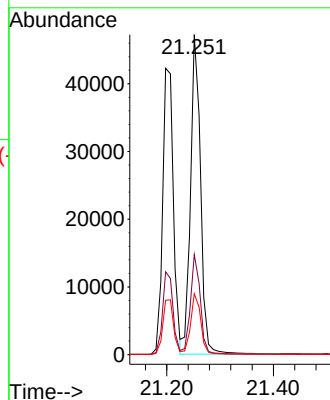
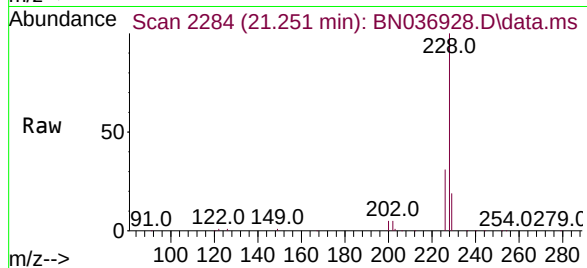
Tgt Ion:228 Resp: 61582

Ion Ratio Lower Upper

228 100

226 31.3 25.5 38.3

229 19.1 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.002 ng

RT: 21.144 min Scan# 2272

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

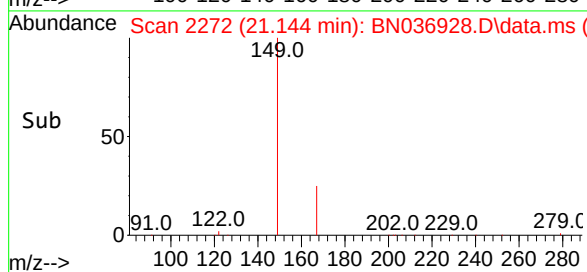
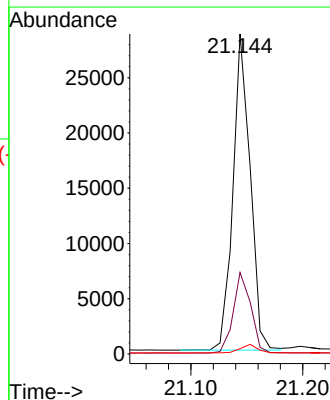
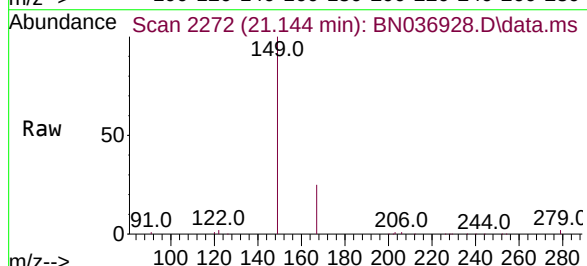
Tgt Ion:149 Resp: 30625

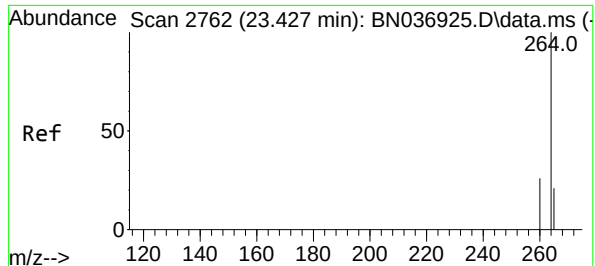
Ion Ratio Lower Upper

149 100

167 26.0 21.0 31.6

279 2.7 2.7 4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.430 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

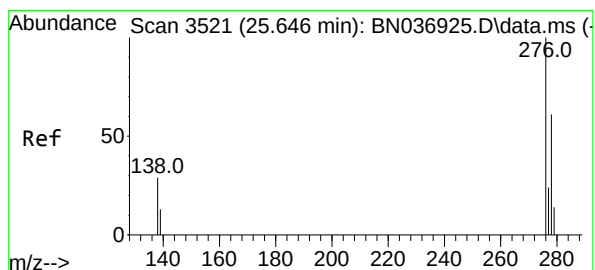
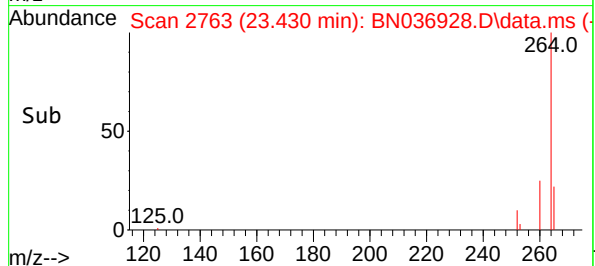
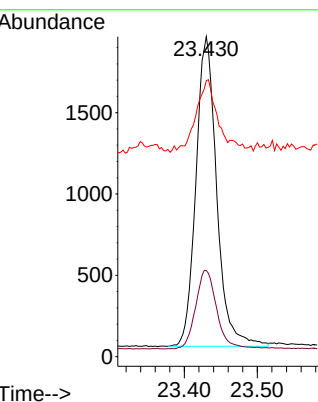
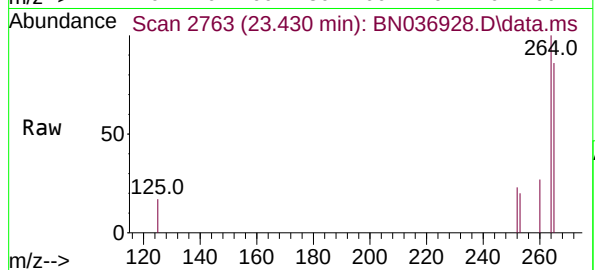
Tgt Ion:264 Resp: 3763

Ion Ratio Lower Upper

264 100

260 26.9 22.2 33.2

265 86.3 65.8 98.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.369 ng

RT: 25.643 min Scan# 3520

Delta R.T. -0.003 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

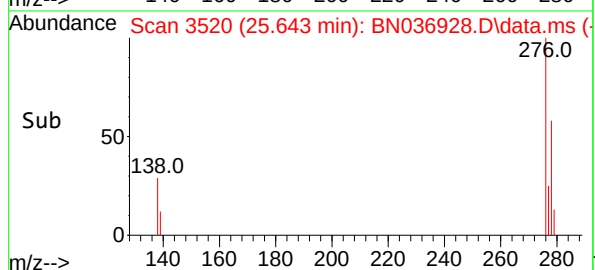
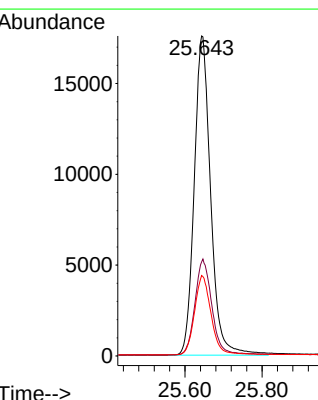
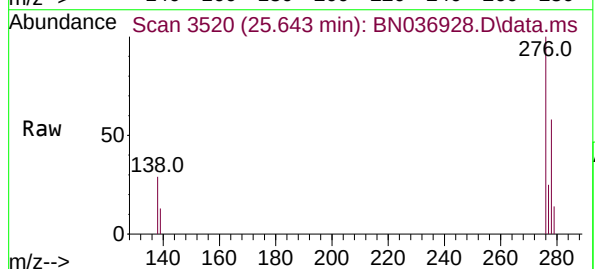
Tgt Ion:276 Resp: 51906

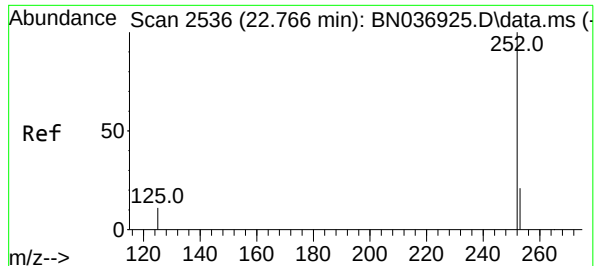
Ion Ratio Lower Upper

276 100

138 30.7 23.0 34.6

277 25.1 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 3.393 ng

RT: 22.766 min Scan# 2536

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

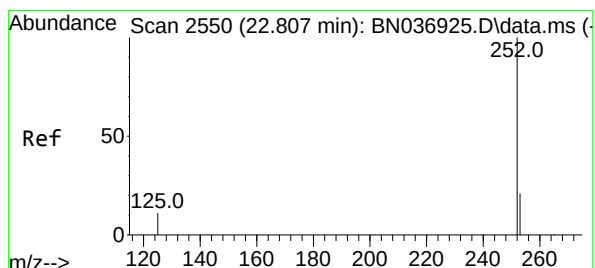
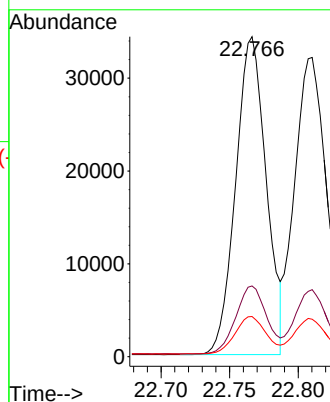
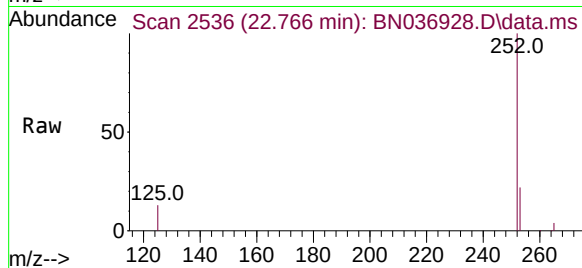
Tgt Ion:252 Resp: 52921

Ion Ratio Lower Upper

252 100

253 22.1 22.1 33.1

125 12.6 14.2 21.2#



#38

Benzo(k)fluoranthene

Concen: 3.406 ng

RT: 22.810 min Scan# 2551

Delta R.T. 0.003 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

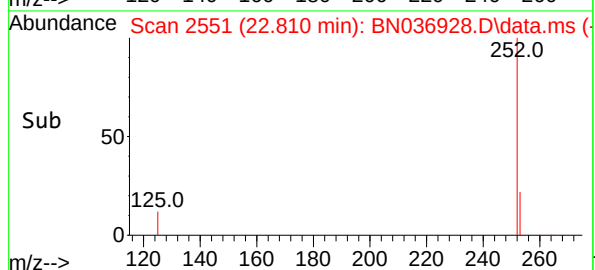
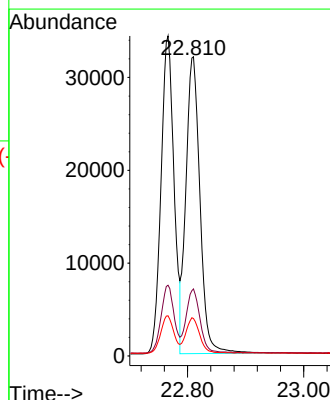
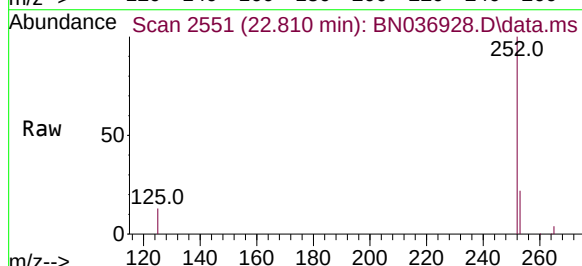
Tgt Ion:252 Resp: 53706

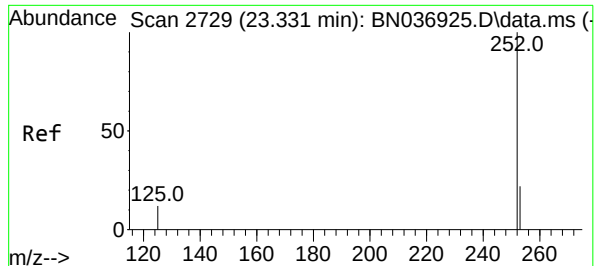
Ion Ratio Lower Upper

252 100

253 22.4 22.8 34.2#

125 12.5 14.2 21.2#





#39

Benzo(a)pyrene

Concen: 3.387 ng

RT: 23.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

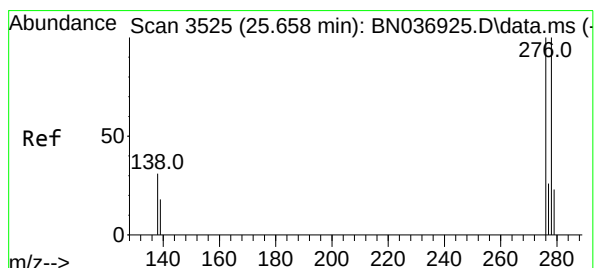
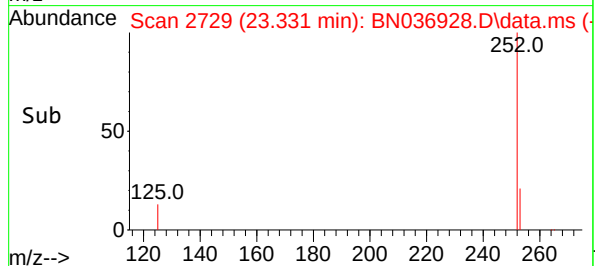
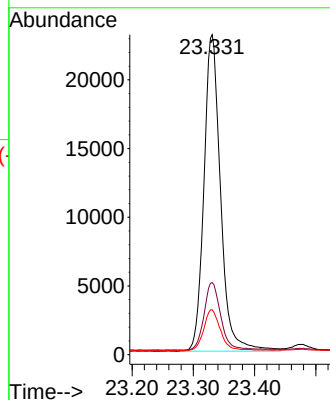
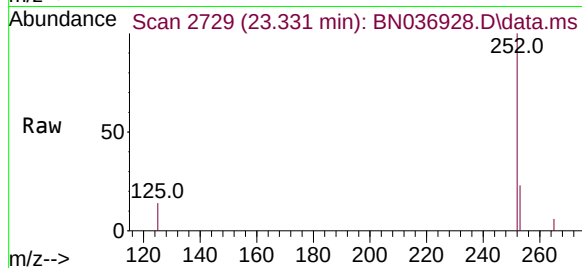
Tgt Ion:252 Resp: 43554

Ion Ratio Lower Upper

252 100

253 22.6 25.9 38.9#

125 14.1 17.4 26.0#



#40

Dibenzo(a,h)anthracene

Concen: 3.423 ng

RT: 25.655 min Scan# 3524

Delta R.T. -0.003 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

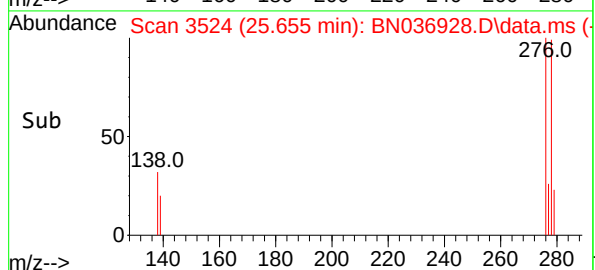
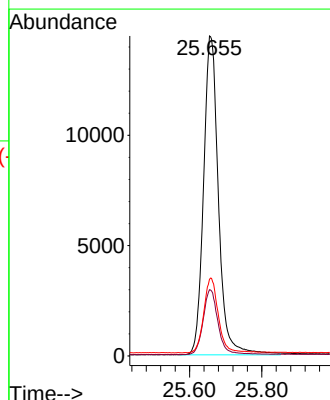
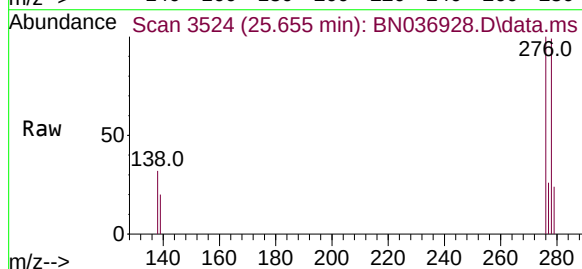
Tgt Ion:278 Resp: 41500

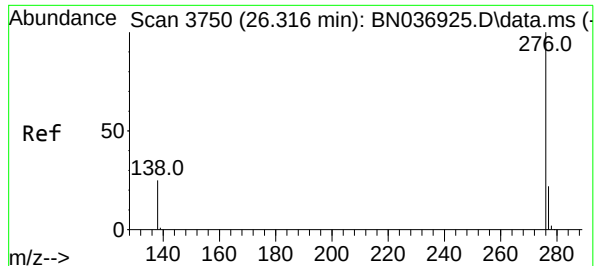
Ion Ratio Lower Upper

278 100

139 20.7 17.4 26.2

279 23.9 24.9 37.3#





#41

Benzo(g,h,i)perylene

Concen: 3.263 ng

RT: 26.319 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN036928.D

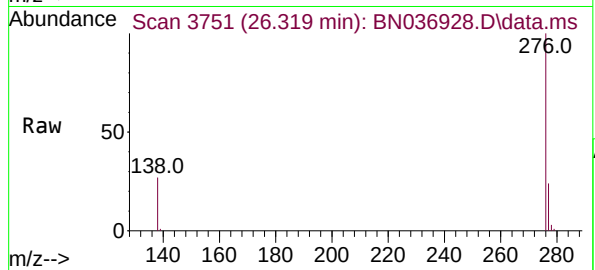
Acq: 28 Apr 2025 14:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



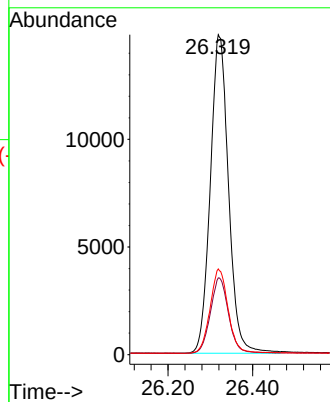
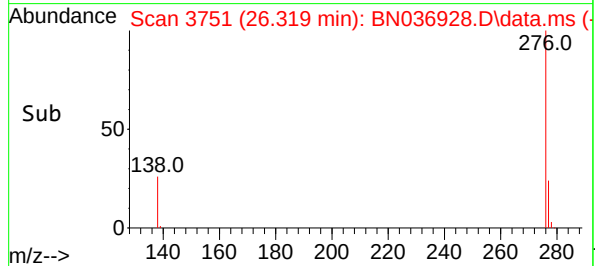
Tgt Ion:276 Resp: 44250

Ion Ratio Lower Upper

276 100

277 24.0 20.2 30.2

138 26.8 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036929.D
 Acq On : 28 Apr 2025 15:12
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Apr 28 15:34:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:18:01 2025
 Response via : Initial Calibration

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

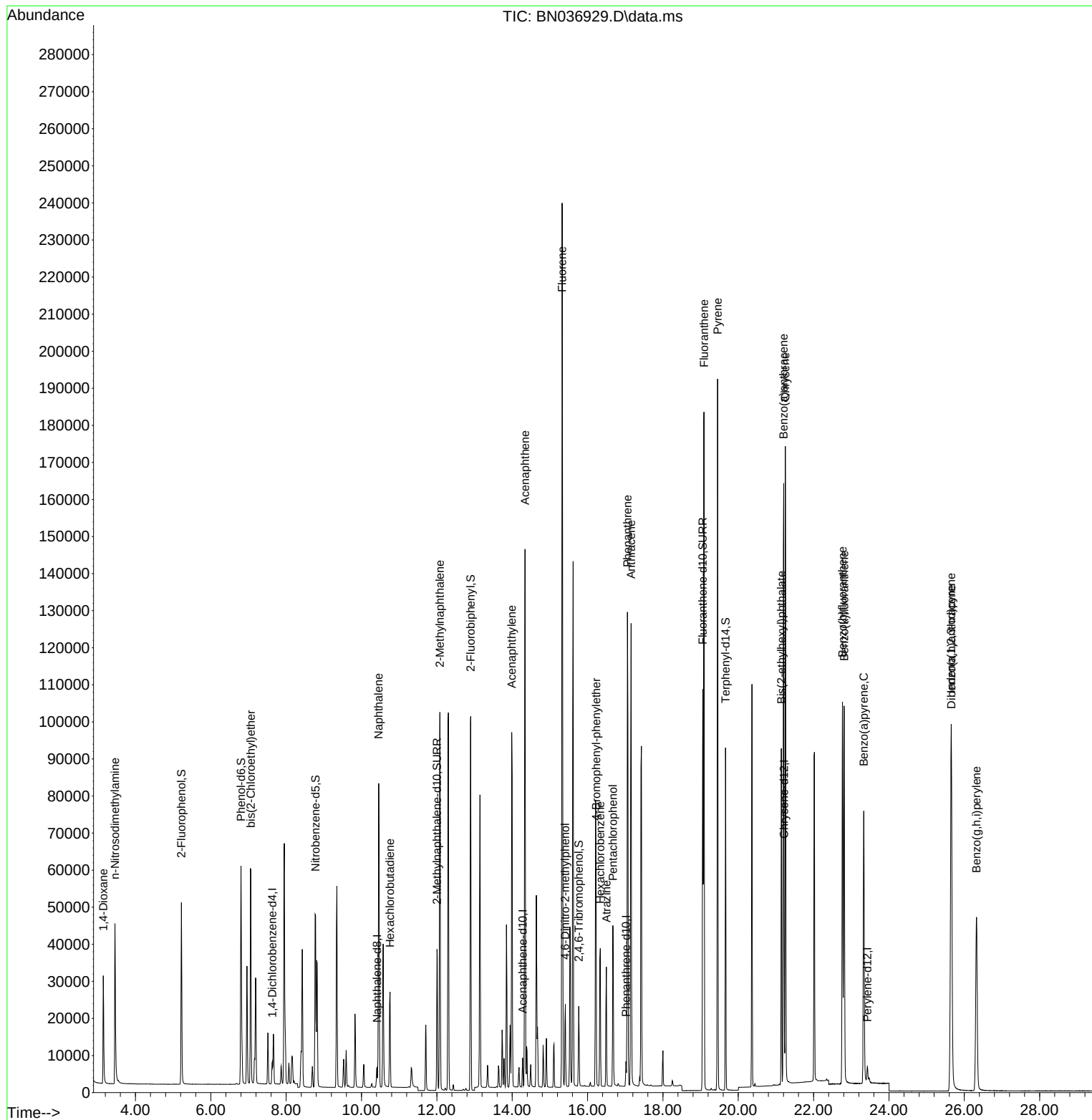
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.632	152	2667	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	6741	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	4034	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	7924	0.400	ng	0.00
29) Chrysene-d12	21.215	240	7034	0.400	ng	0.00
35) Perylene-d12	23.427	264	5350	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	32346	4.701	ng	0.00
5) Phenol-d6	6.802	99	42419	5.060	ng	0.00
8) Nitrobenzene-d5	8.781	82	36759	5.249	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	49610	5.308	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	9898	5.599	ng	0.00
15) 2-Fluorobiphenyl	12.898	172	97228	4.984	ng	0.00
27) Fluoranthene-d10	19.058	212	110482	5.447	ng	0.00
31) Terphenyl-d14	19.662	244	78873	4.712	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.147	88	15494	4.610	ng	96
3) n-Nitrosodimethylamine	3.458	42	30605	4.705	ng	# 98
6) bis(2-Chloroethyl)ether	7.062	93	38731	4.973	ng	99
9) Naphthalene	10.457	128	98160	5.004	ng	98
10) Hexachlorobutadiene	10.756	225	20245	4.733	ng	# 98
12) 2-Methylnaphthalene	12.082	142	67281	5.359	ng	98
16) Acenaphthylene	13.988	152	104172	5.334	ng	100
17) Acenaphthene	14.341	154	65801	5.093	ng	98
18) Fluorene	15.325	166	88362	5.254	ng	99
20) 4,6-Dinitro-2-methylph...	15.410	198	13303	6.700	ng	# 52
21) 4-Bromophenyl-phenylether	16.226	248	26778	5.074	ng	94
22) Hexachlorobenzene	16.338	284	27944	4.793	ng	99
23) Atrazine	16.499	200	24525	5.893	ng	# 91
24) Pentachlorophenol	16.673	266	17963	5.937	ng	99
25) Phenanthrene	17.058	178	133437	5.119	ng	99
26) Anthracene	17.157	178	128680	5.520	ng	100
28) Fluoranthene	19.091	202	159754	5.533	ng	99
30) Pyrene	19.453	202	160324	4.691	ng	100
32) Benzo(a)anthracene	21.206	228	137209	5.349	ng	98
33) Chrysene	21.251	228	135038	4.807	ng	98
34) Bis(2-ethylhexyl)phtha...	21.143	149	76115	5.194	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.649	276	107583	4.911	ng	97
37) Benzo(b)fluoranthene	22.766	252	122058	5.504	ng	# 89
38) Benzo(k)fluoranthene	22.810	252	119359	5.325	ng	# 87
39) Benzo(a)pyrene	23.333	252	98753	5.402	ng	# 82
40) Dibenzo(a,h)anthracene	25.660	278	84789	4.920	ng	# 91
41) Benzo(g,h,i)perylene	26.324	276	89523	4.643	ng	99

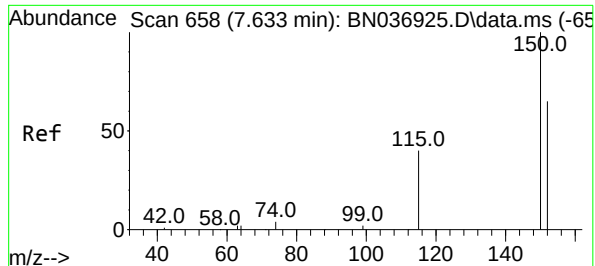
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036929.D
Acq On : 28 Apr 2025 15:12
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

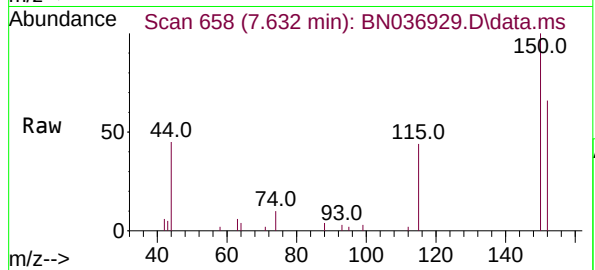
Quant Time: Apr 28 15:34:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:18:01 2025
Response via : Initial Calibration



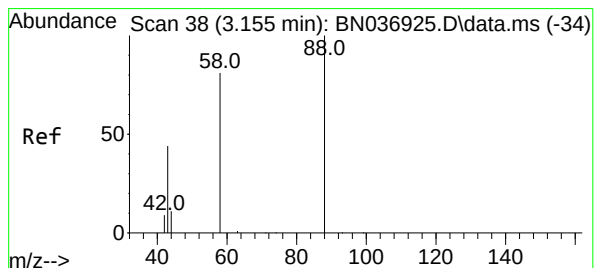
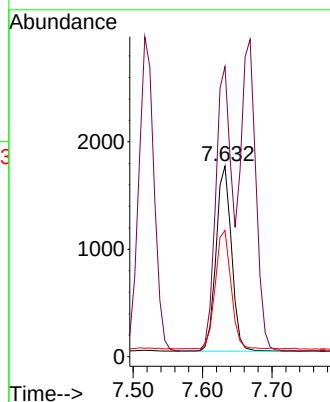


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.632 min Scan# 61
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

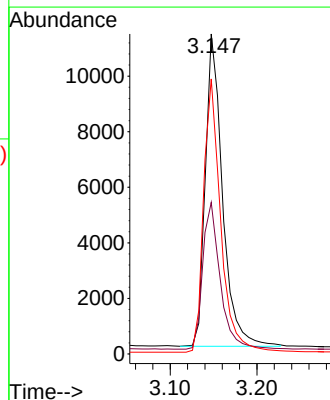
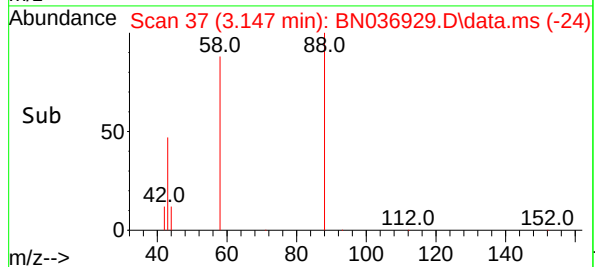
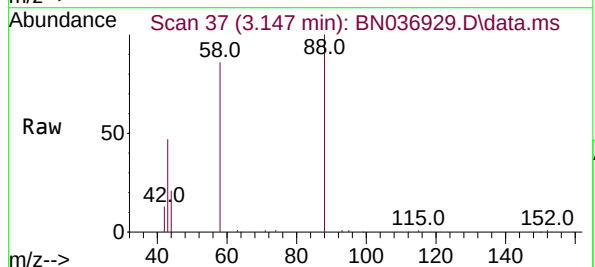


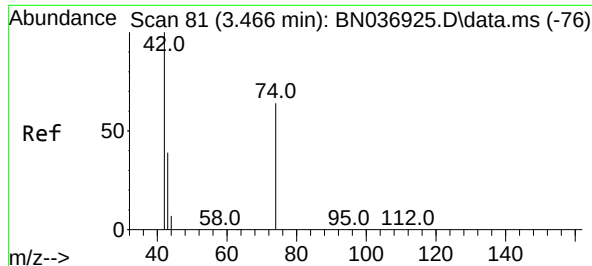
Tgt Ion:152 Resp: 2667
Ion Ratio Lower Upper
152 100
150 152.3 121.1 181.7
115 66.3 51.8 77.6



#2
1,4-Dioxane
Concen: 4.610 ng
RT: 3.147 min Scan# 37
Delta R.T. -0.008 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion: 88 Resp: 15494
Ion Ratio Lower Upper
88 100
43 47.8 37.9 56.9
58 87.2 65.8 98.6

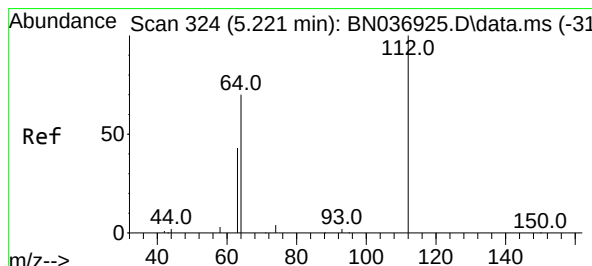
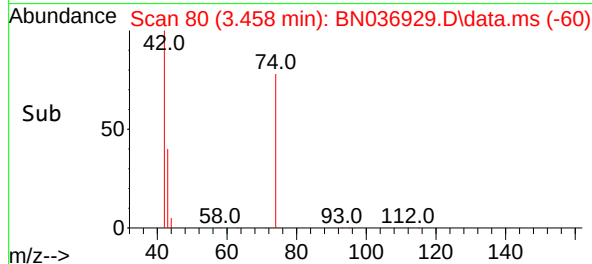
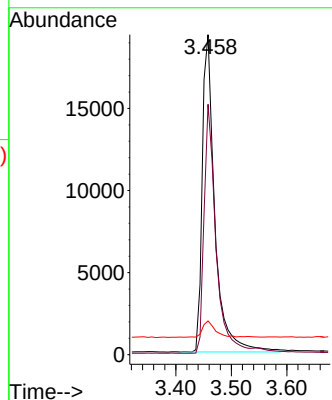
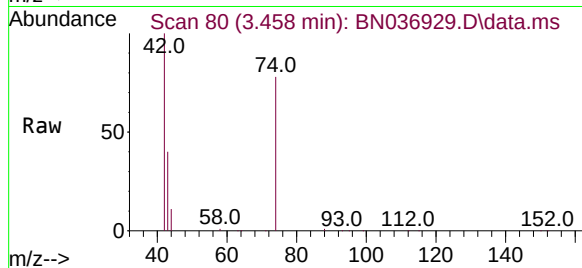




#3
n-Nitrosodimethylamine
Concen: 4.705 ng
RT: 3.458 min Scan# 80
Delta R.T. -0.008 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

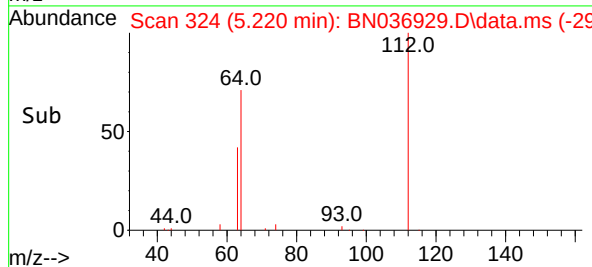
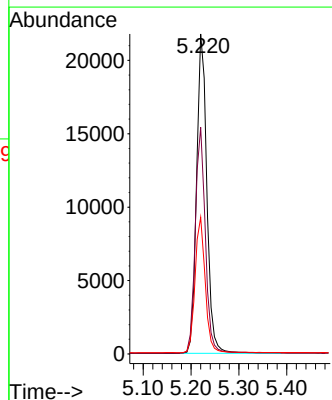
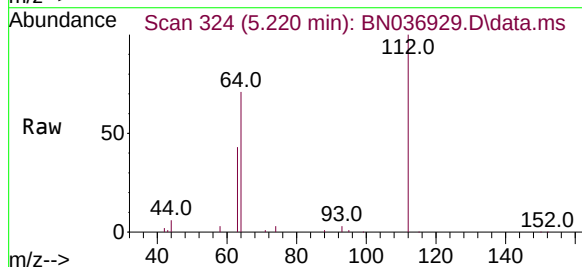
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

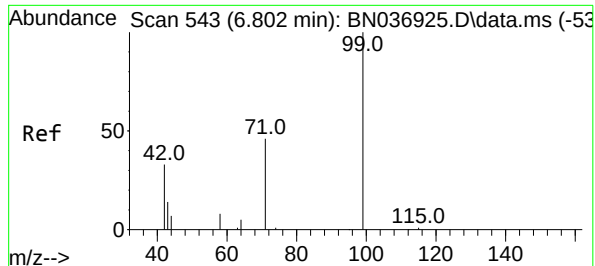
Tgt Ion: 42 Resp: 30605
Ion Ratio Lower Upper
42 100
74 75.7 59.9 89.9
44 5.2 7.5 11.3#



#4
2-Fluorophenol
Concen: 4.701 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion: 112 Resp: 32346
Ion Ratio Lower Upper
112 100
64 69.9 55.7 83.5
63 42.2 33.9 50.9

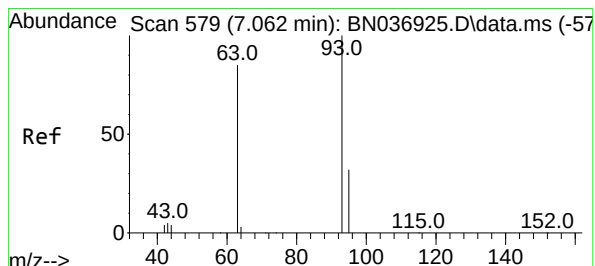
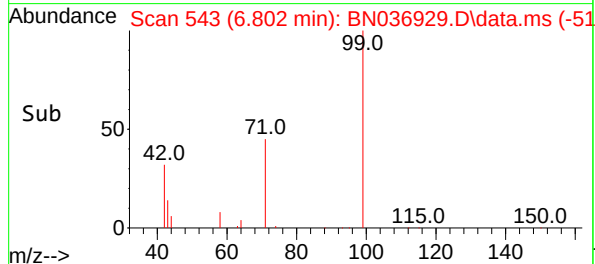
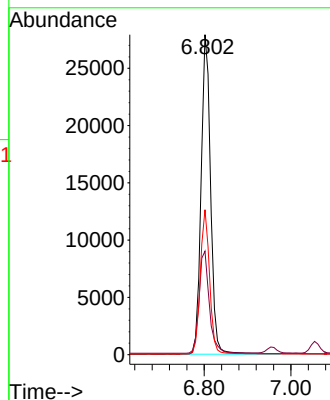
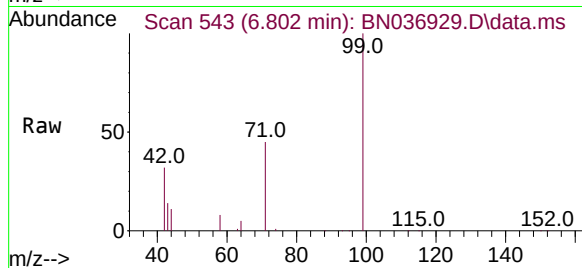




#5
Phenol-d6
Concen: 5.060 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

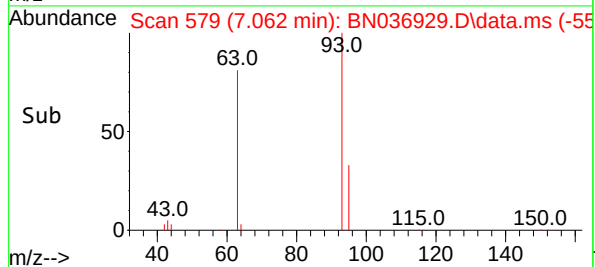
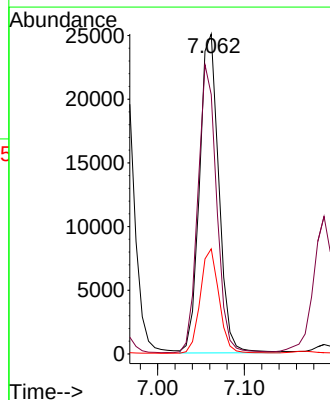
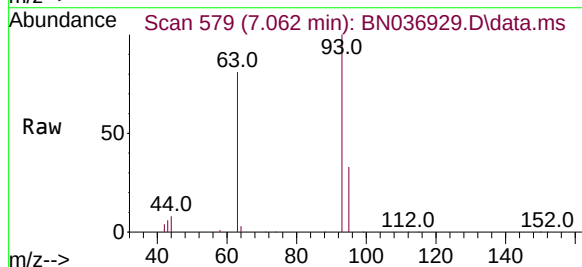
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

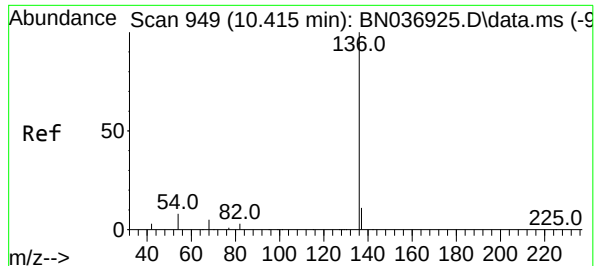
Tgt Ion: 99 Resp: 42419
Ion Ratio Lower Upper
99 100
42 34.6 29.6 44.4
71 44.3 36.0 54.0



#6
bis(2-Chloroethyl)ether
Concen: 4.973 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion: 93 Resp: 38731
Ion Ratio Lower Upper
93 100
63 87.6 69.0 103.6
95 32.0 25.4 38.0

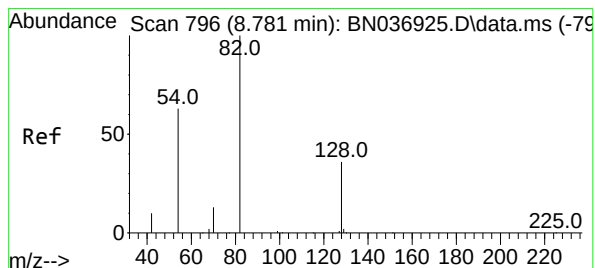
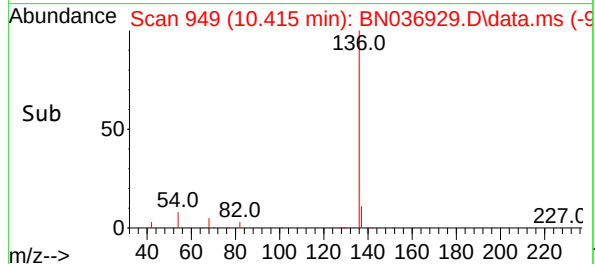
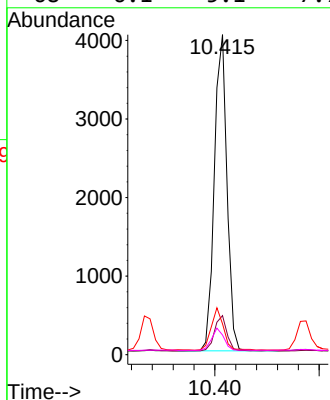
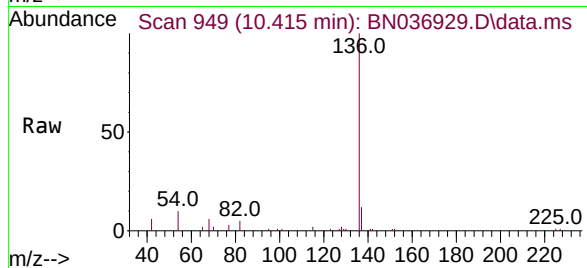




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

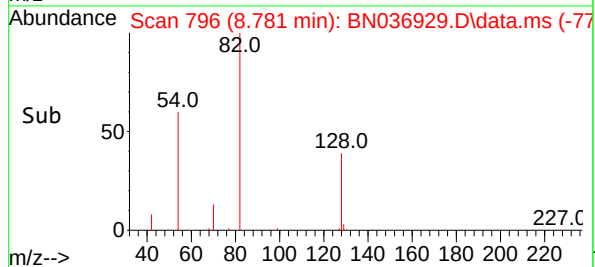
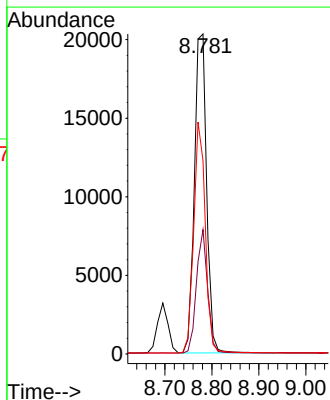
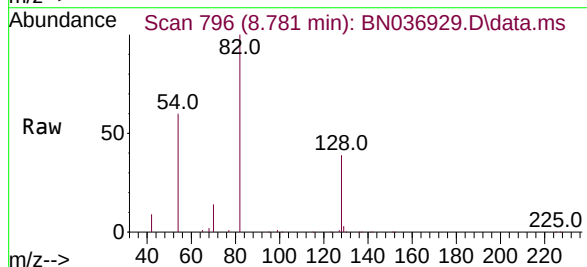
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

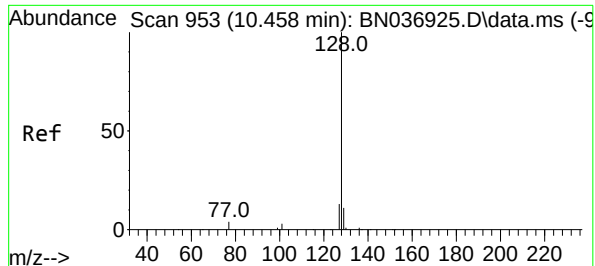
Tgt Ion	136	Resp	6741
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.7	14.5
54	9.7	8.0	12.0
68	6.1	5.1	7.7



#8
Nitrobenzene-d5
Concen: 5.249 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion	82	Resp	36759
Ion	Ratio	Lower	Upper
82	100		
128	38.9	30.7	46.1
54	60.4	52.1	78.1

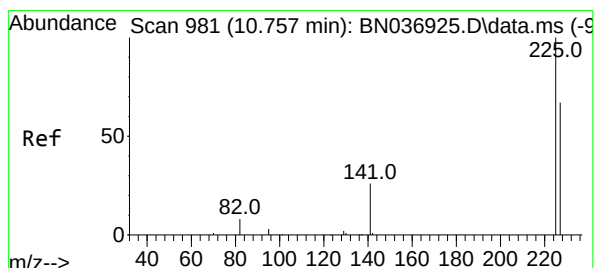
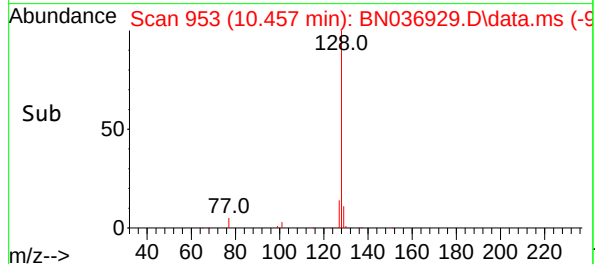
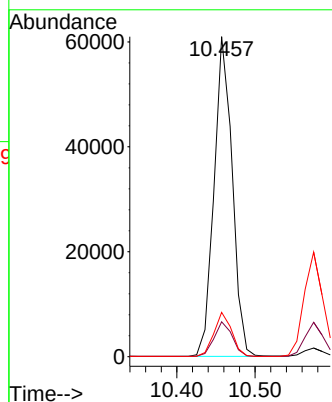
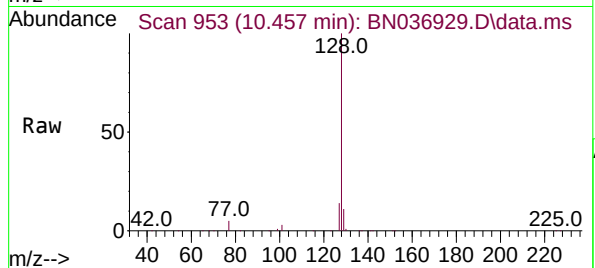




#9
Naphthalene
Concen: 5.004 ng
RT: 10.457 min Scan# 91
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

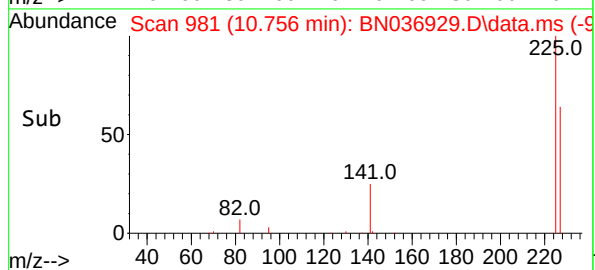
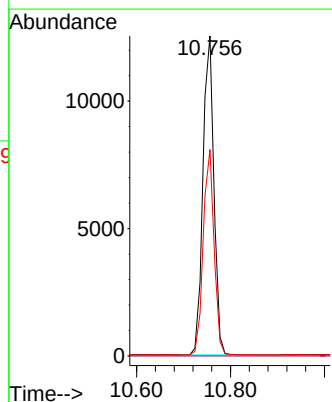
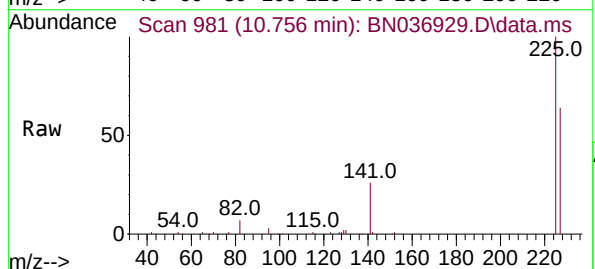
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

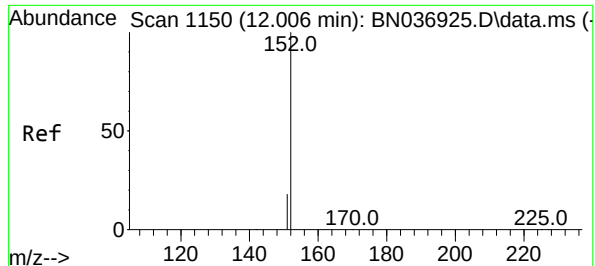
Tgt Ion:128 Resp: 98160
Ion Ratio Lower Upper
128 100
129 10.9 9.8 14.6
127 13.9 11.4 17.2



#10
Hexachlorobutadiene
Concen: 4.733 ng
RT: 10.756 min Scan# 981
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:225 Resp: 20245
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 52.2 78.4

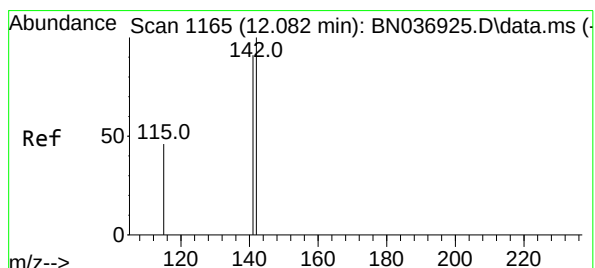
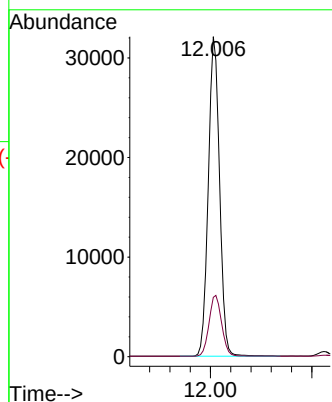
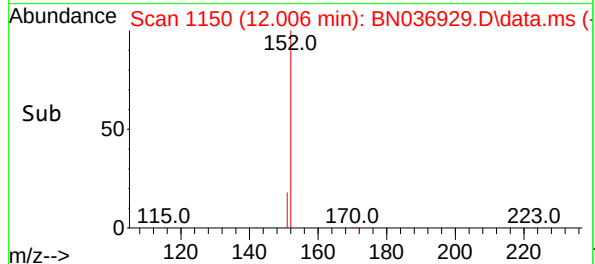
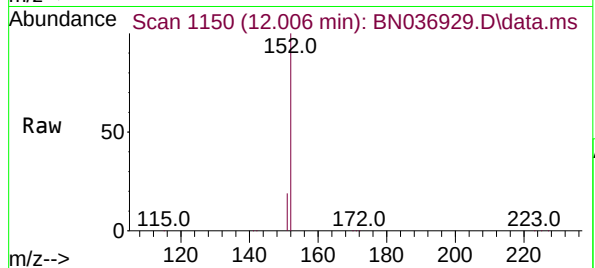




#11
2-Methylnaphthalene-d10
Concen: 5.308 ng
RT: 12.006 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

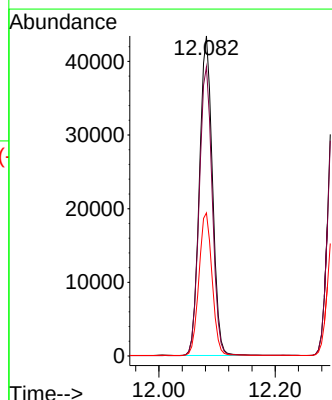
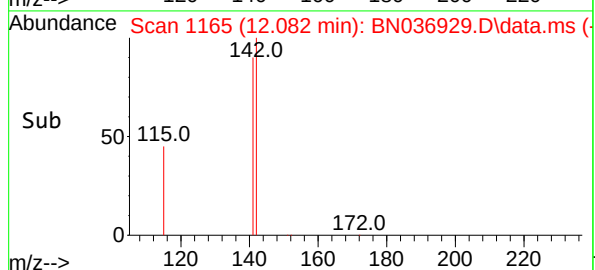
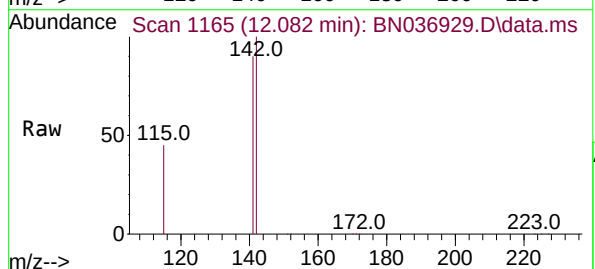
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

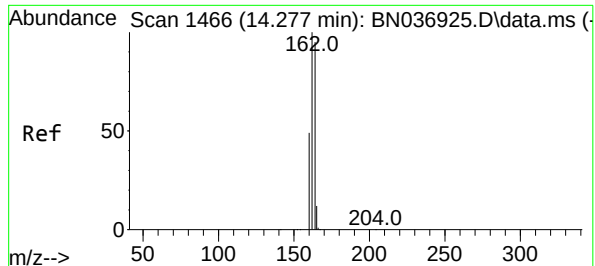
Tgt Ion:152 Resp: 49610
Ion Ratio Lower Upper
152 100
151 21.3 16.9 25.3



#12
2-Methylnaphthalene
Concen: 5.359 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:142 Resp: 67281
Ion Ratio Lower Upper
142 100
141 90.4 72.8 109.2
115 44.7 38.2 57.4

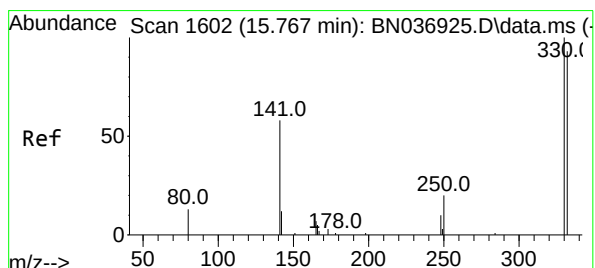
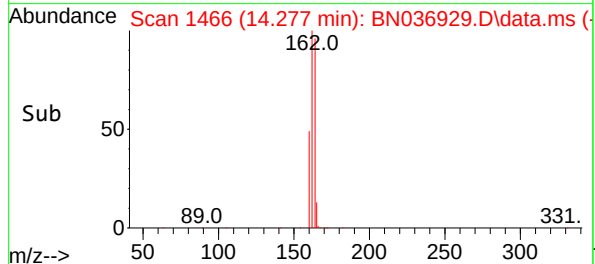
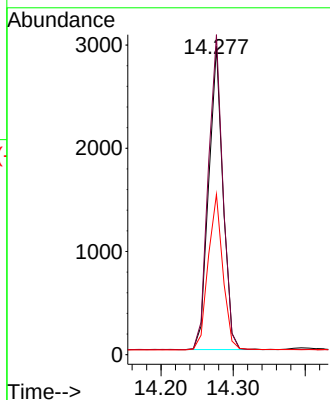
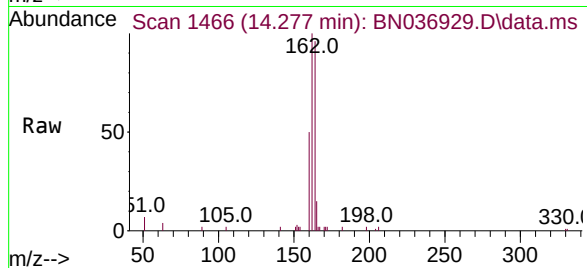




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

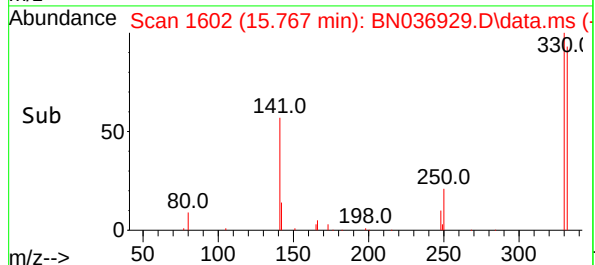
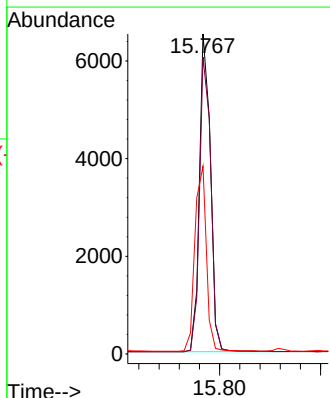
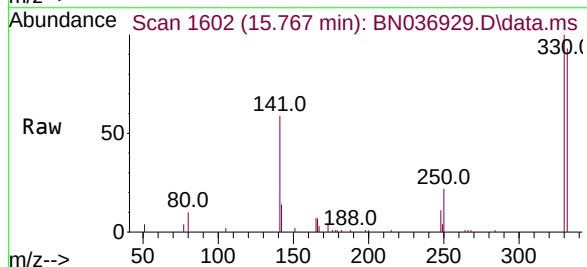
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

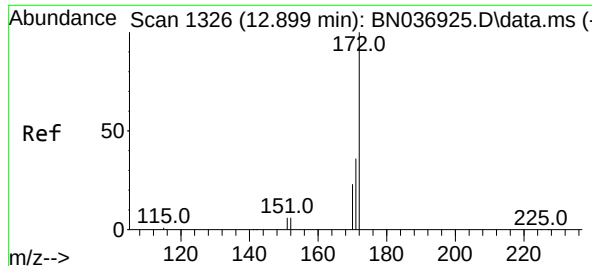
Tgt Ion:164 Resp: 4034
Ion Ratio Lower Upper
164 100
162 103.9 83.8 125.8
160 52.0 42.0 63.0



#14
2,4,6-Tribromophenol
Concen: 5.599 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:330 Resp: 9898
Ion Ratio Lower Upper
330 100
332 95.5 76.3 114.5
141 60.7 45.4 68.2

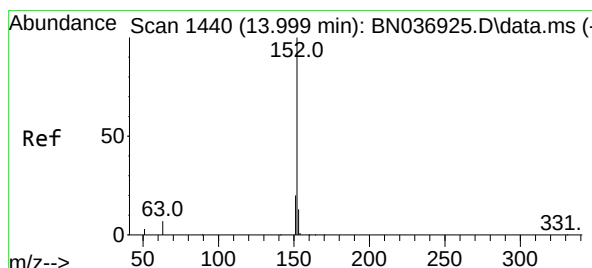
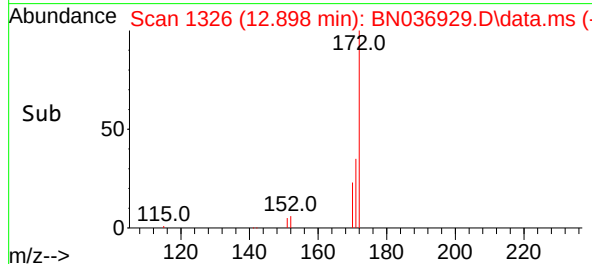
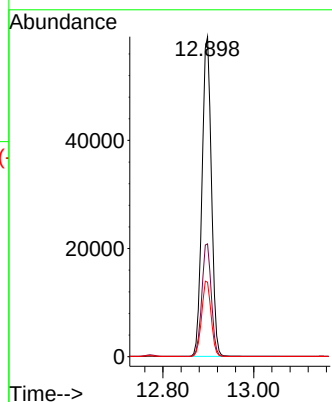
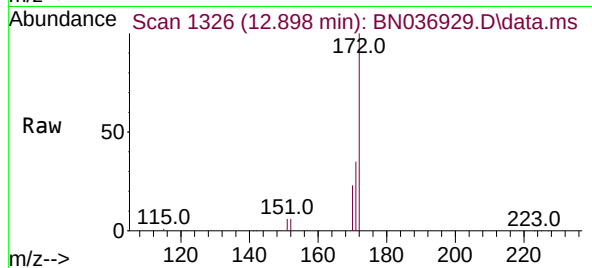




#15
2-Fluorobiphenyl
Concen: 4.984 ng
RT: 12.898 min Scan# 1439
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

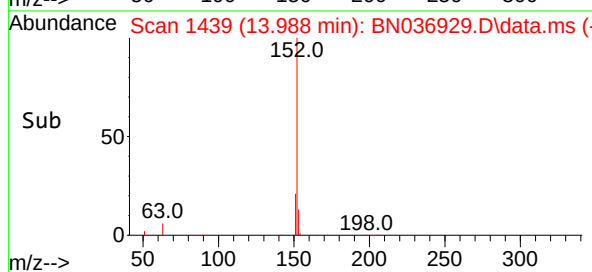
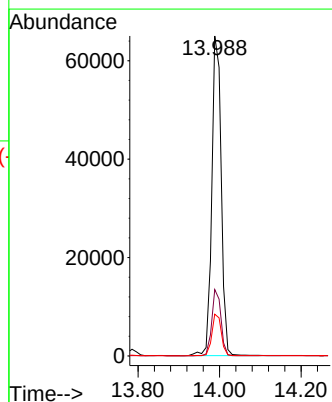
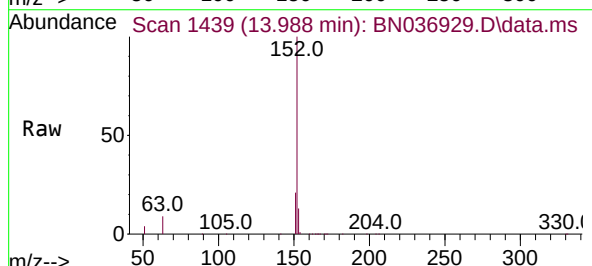
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

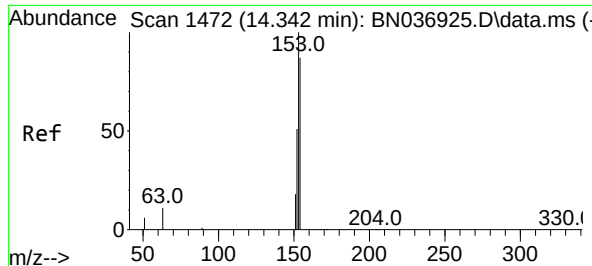
Tgt Ion:172 Resp: 97228
Ion Ratio Lower Upper
172 100
171 35.2 29.4 44.0
170 23.2 19.4 29.0



#16
Acenaphthylene
Concen: 5.334 ng
RT: 13.988 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:152 Resp: 104172
Ion Ratio Lower Upper
152 100
151 20.0 16.0 24.0
153 13.0 10.2 15.2

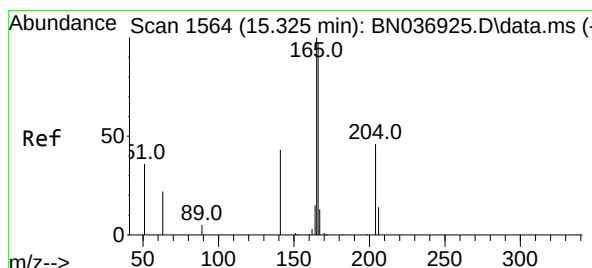
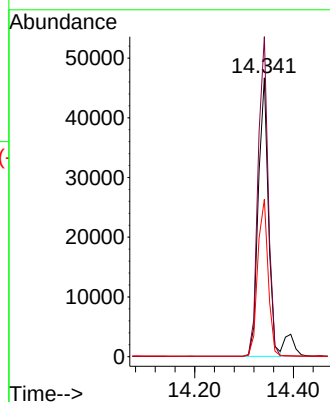
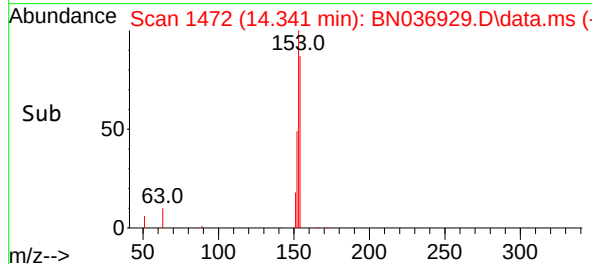
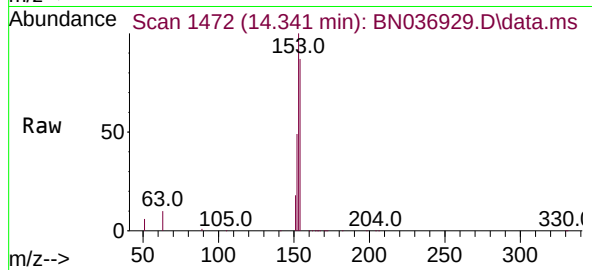




#17
Acenaphthene
Concen: 5.093 ng
RT: 14.341 min Scan# 1472
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

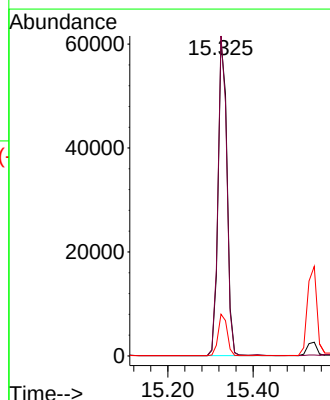
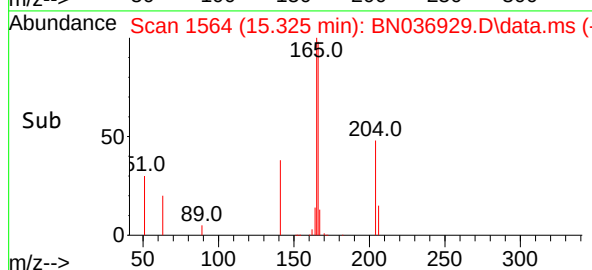
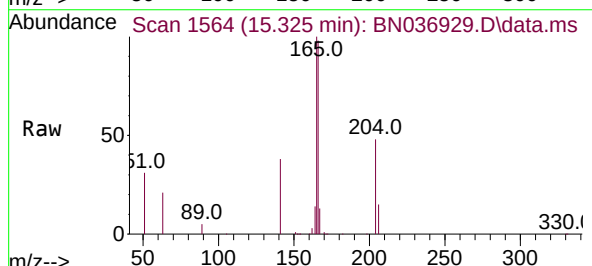
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

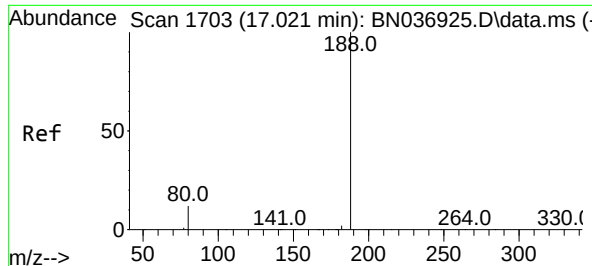
Tgt Ion:154 Resp: 65801
Ion Ratio Lower Upper
154 100
153 115.8 93.4 140.2
152 58.6 49.5 74.3



#18
Fluorene
Concen: 5.254 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:166 Resp: 88362
Ion Ratio Lower Upper
166 100
165 99.7 80.8 121.2
167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

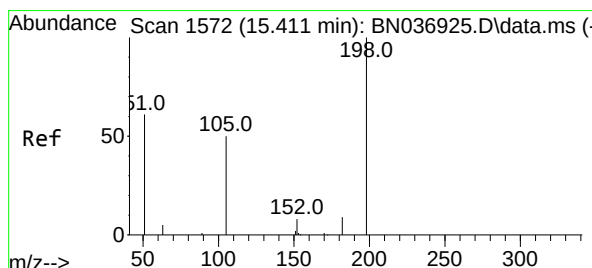
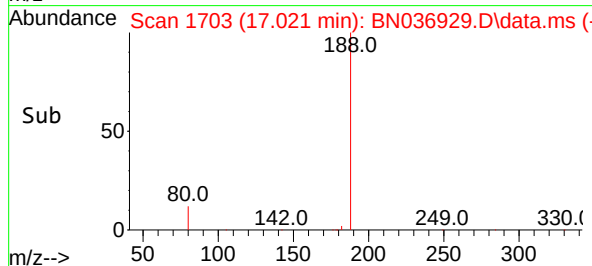
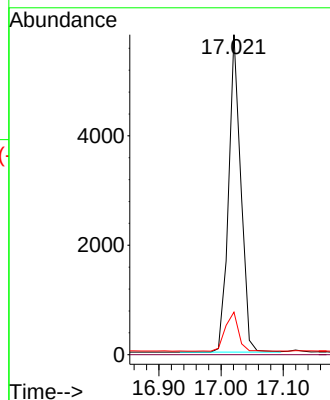
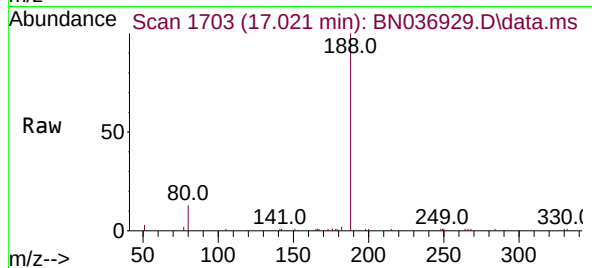
Tgt Ion:188 Resp: 7924

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.3 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 6.700 ng

RT: 15.410 min Scan# 1572

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

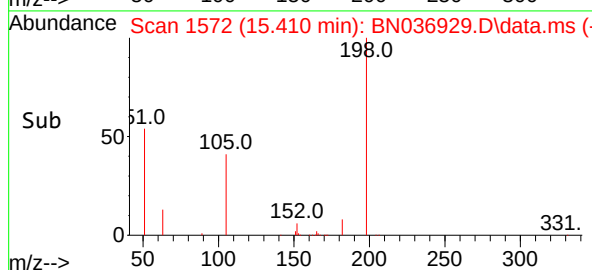
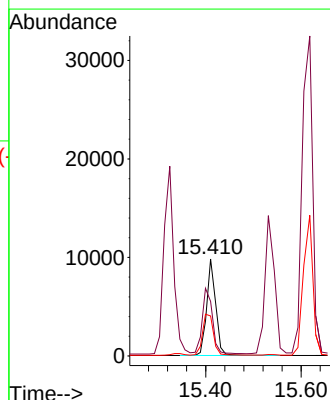
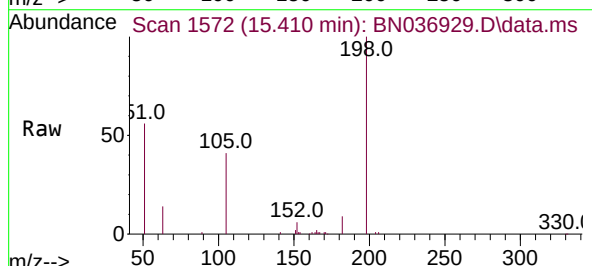
Tgt Ion:198 Resp: 13303

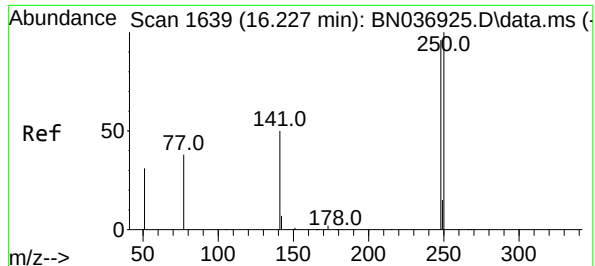
Ion Ratio Lower Upper

198 100

51 56.3 97.9 146.9#

105 41.2 50.0 75.0#

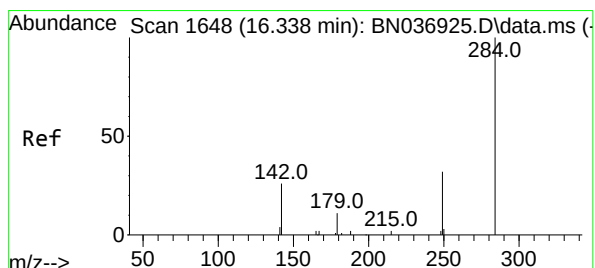
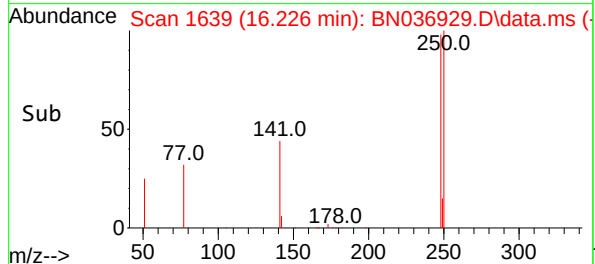
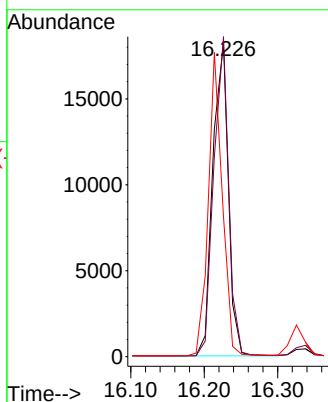
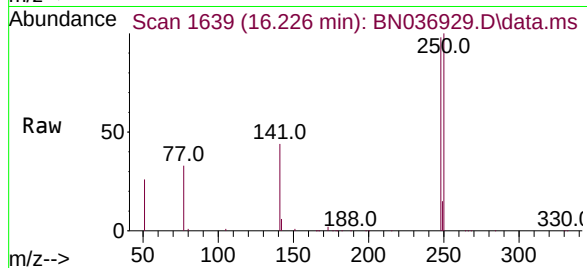




#21
4-Bromophenyl-phenylether
Concen: 5.074 ng
RT: 16.226 min Scan# 1639
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

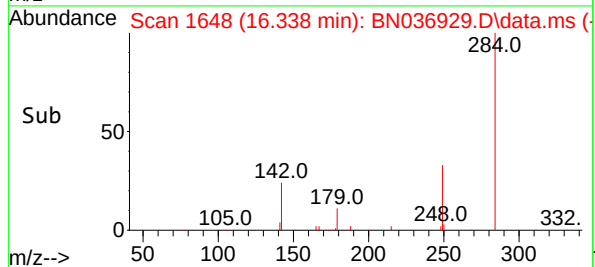
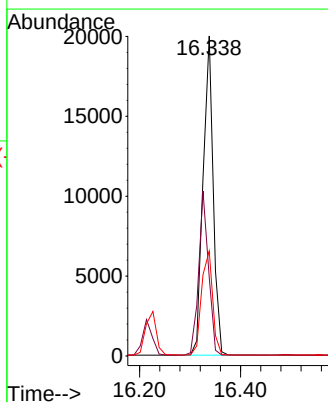
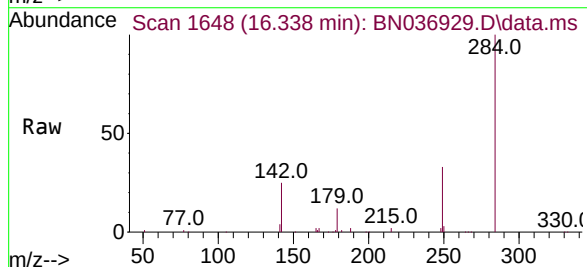
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

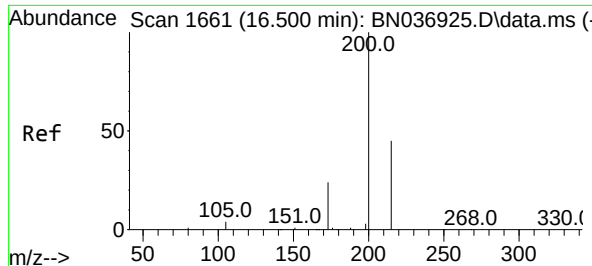
Tgt Ion	Ratio	Lower	Upper
248	100		
250	102.1	83.7	125.5
141	44.7	43.8	65.8



#22
Hexachlorobenzene
Concen: 4.793 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion	Ratio	Lower	Upper
284	100		
142	49.9	40.0	60.0
249	35.8	28.2	42.2

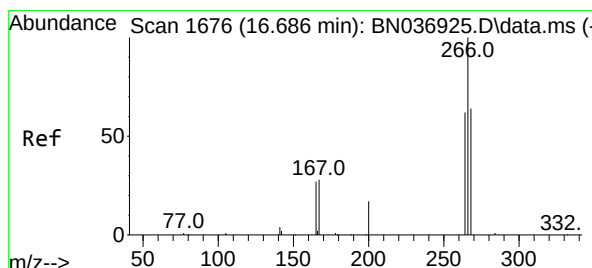
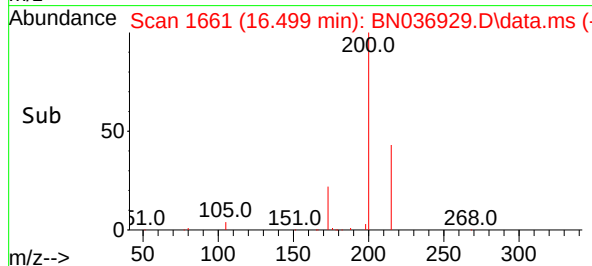
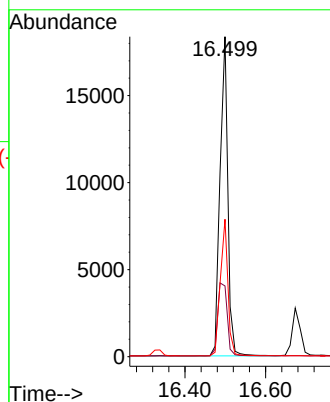
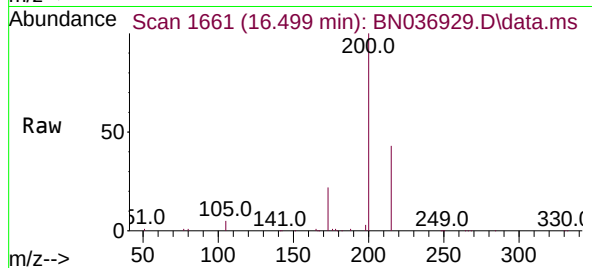




#23
Atrazine
Concen: 5.893 ng
RT: 16.499 min Scan# 1661
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

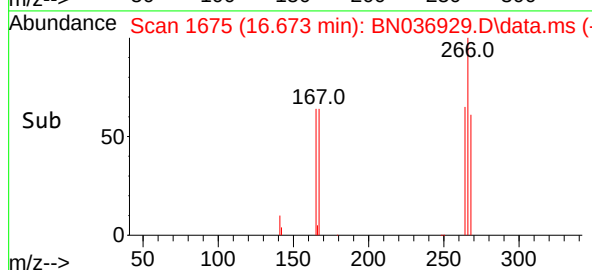
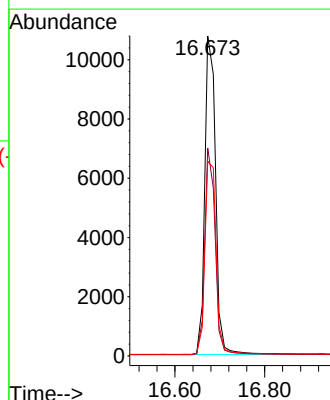
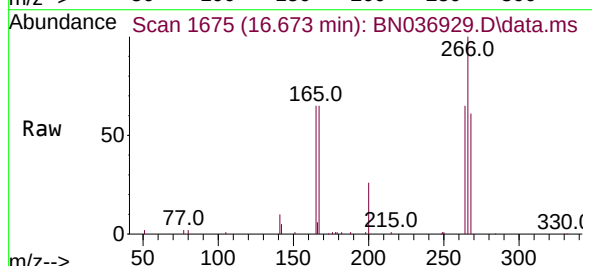
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

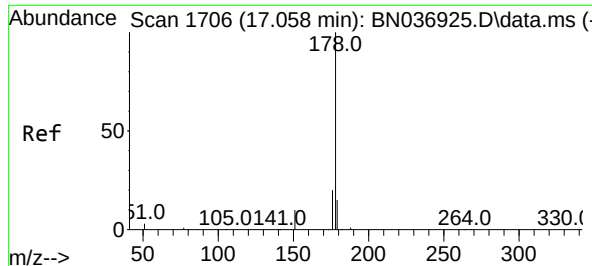
Tgt Ion:200 Resp: 24525
Ion Ratio Lower Upper
200 100
173 22.1 22.4 33.6#
215 42.9 38.6 57.8



#24
Pentachlorophenol
Concen: 5.937 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.013 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:266 Resp: 17963
Ion Ratio Lower Upper
266 100
264 62.6 49.9 74.9
268 63.3 52.2 78.4

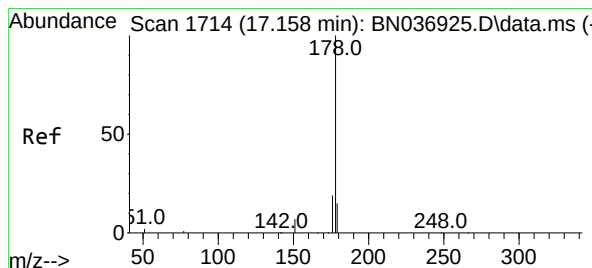
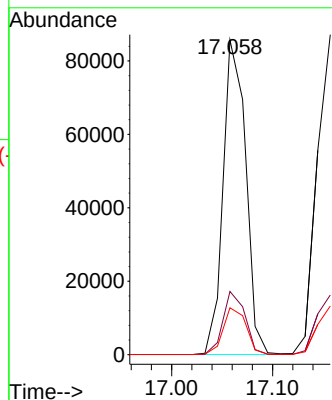
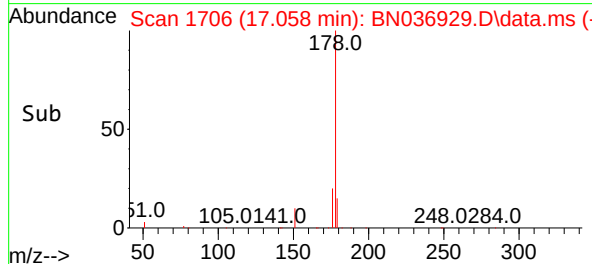
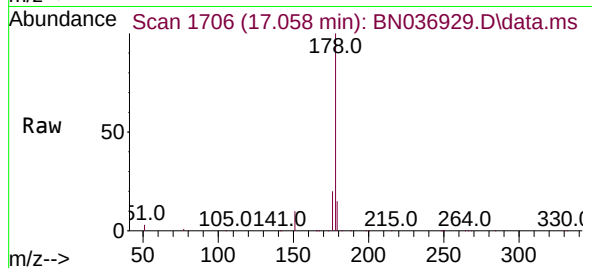




#25
Phenanthrene
Concen: 5.119 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

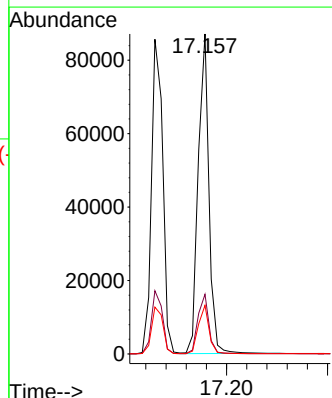
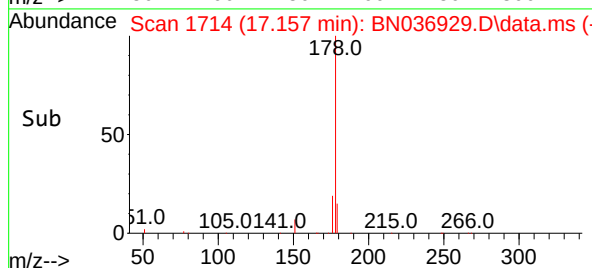
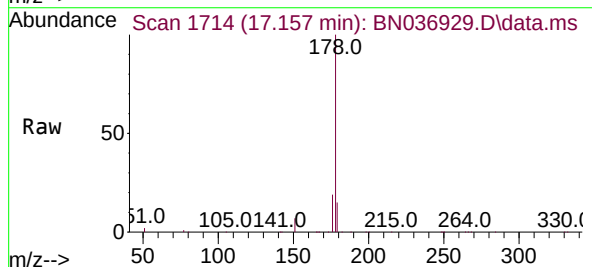
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

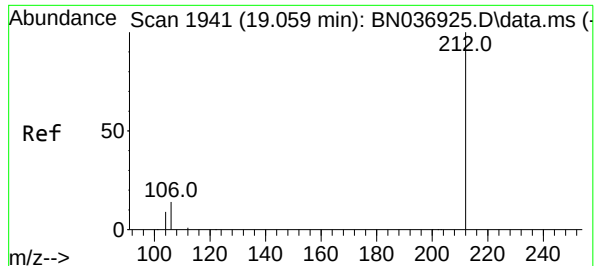
Tgt Ion:178 Resp: 133437
Ion Ratio Lower Upper
178 100
176 19.5 15.7 23.5
179 15.0 12.4 18.6



#26
Anthracene
Concen: 5.520 ng
RT: 17.157 min Scan# 1714
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:178 Resp: 128680
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.0 12.1 18.1





#27

Fluoranthene-d10

Concen: 5.447 ng

RT: 19.058 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

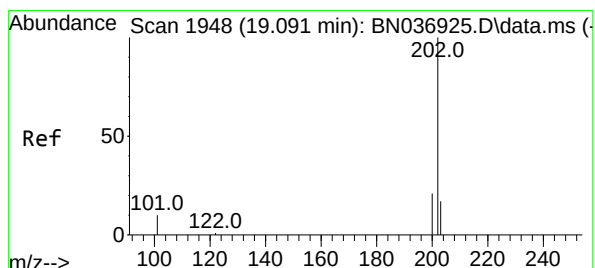
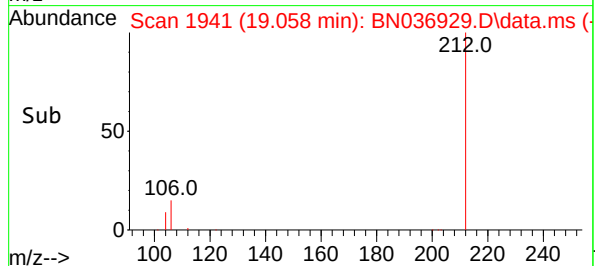
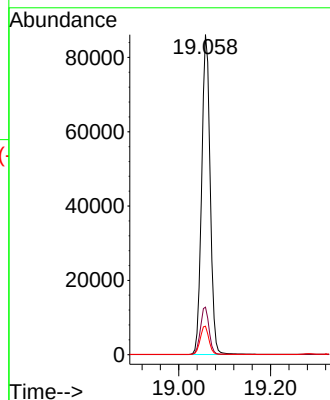
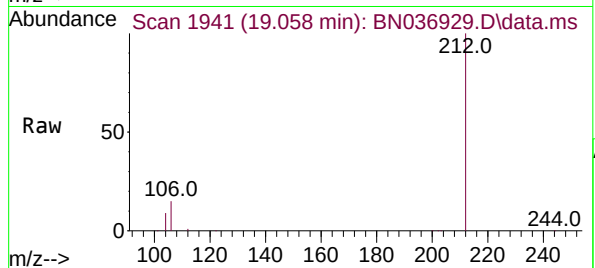
Tgt Ion:212 Resp: 110482

Ion Ratio Lower Upper

212 100

106 15.0 11.6 17.4

104 9.0 7.0 10.4



#28

Fluoranthene

Concen: 5.533 ng

RT: 19.091 min Scan# 1948

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

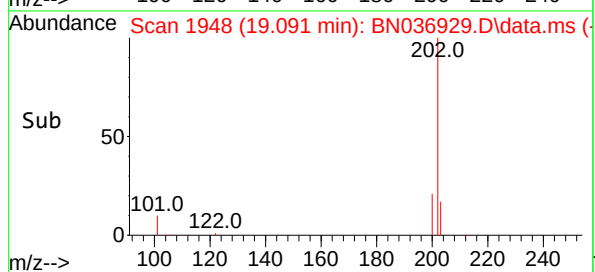
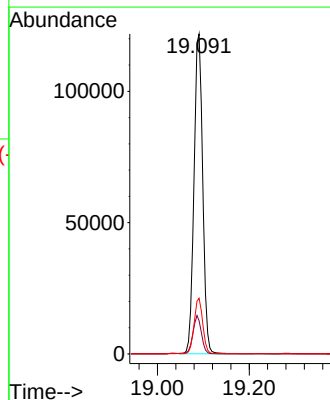
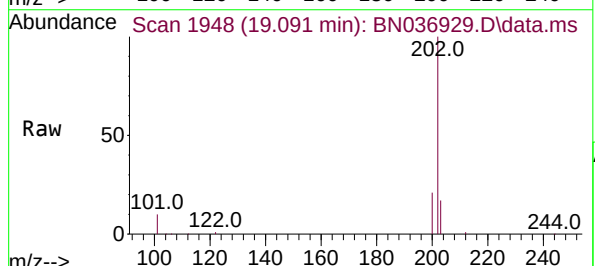
Tgt Ion:202 Resp: 159754

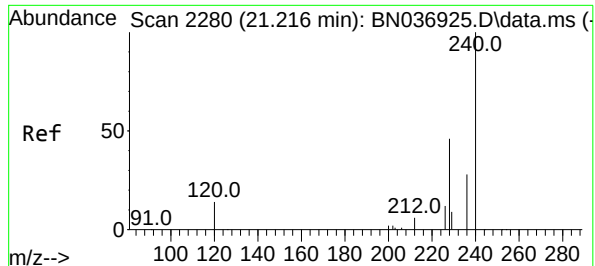
Ion Ratio Lower Upper

202 100

101 11.7 8.5 12.7

203 17.2 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.215 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

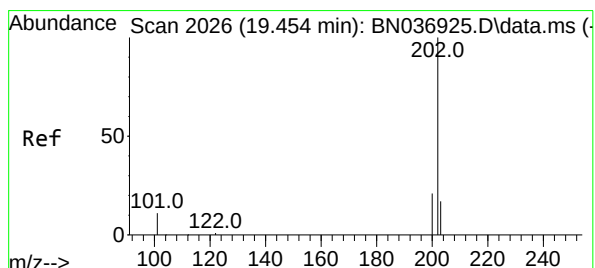
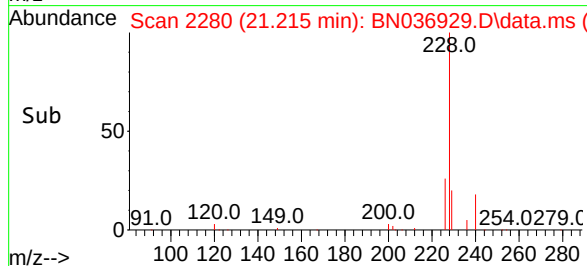
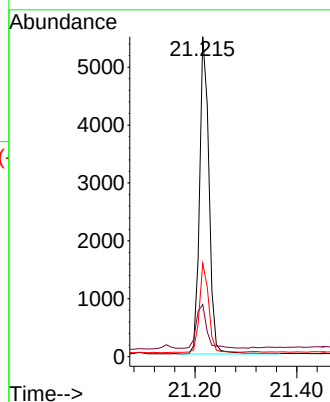
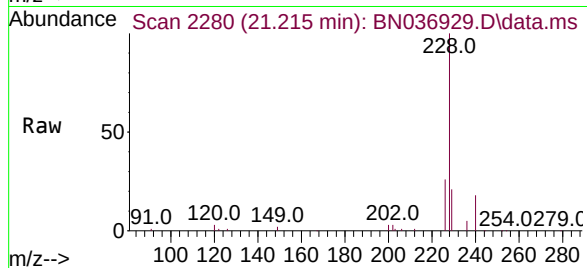
Tgt Ion:240 Resp: 7034

Ion Ratio Lower Upper

240 100

120 16.3 14.1 21.1

236 29.2 23.8 35.8



#30

Pyrene

Concen: 4.691 ng

RT: 19.453 min Scan# 2026

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

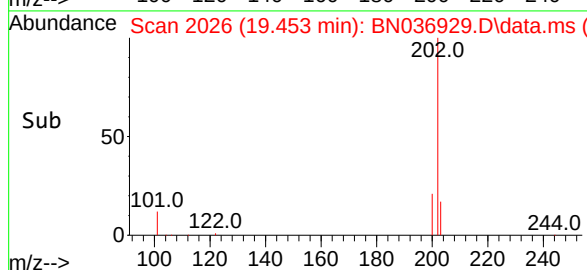
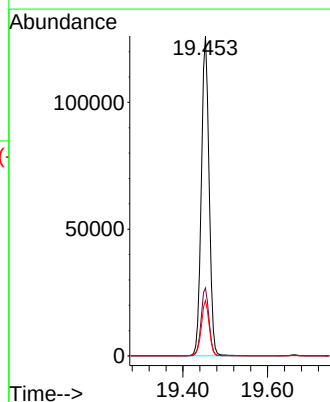
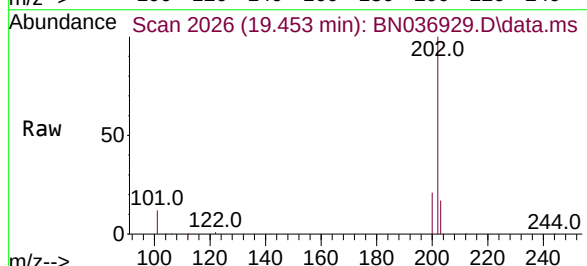
Tgt Ion:202 Resp: 160324

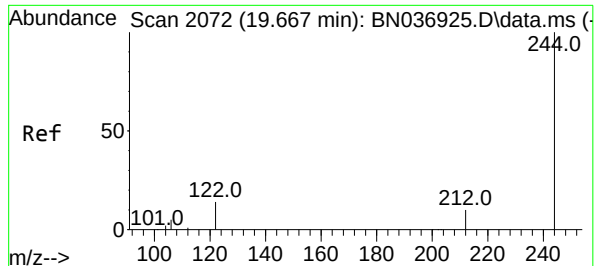
Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.6

203 17.7 14.0 21.0

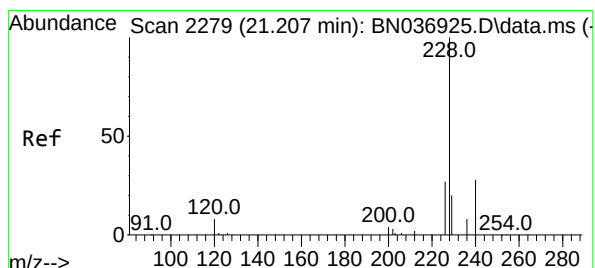
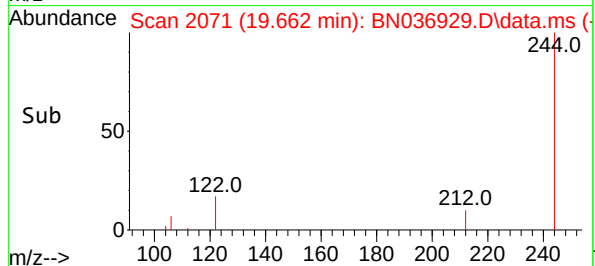
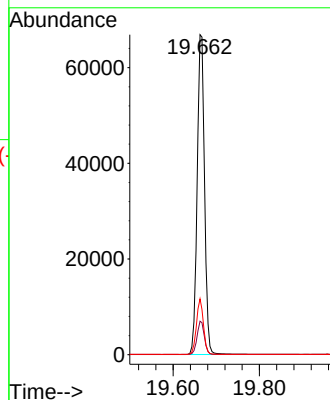
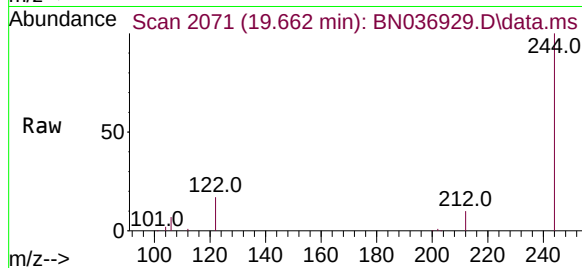




#31
Terphenyl-d14
Concen: 4.712 ng
RT: 19.662 min Scan# 2072
Delta R.T. -0.005 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

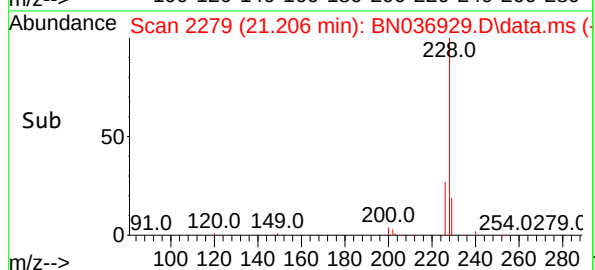
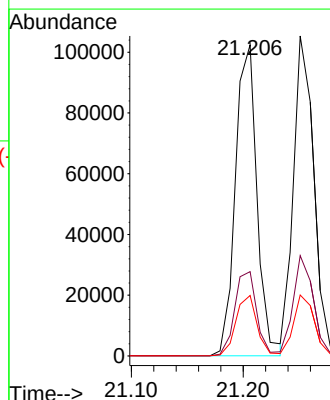
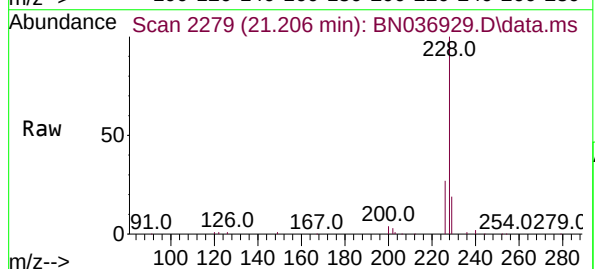
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

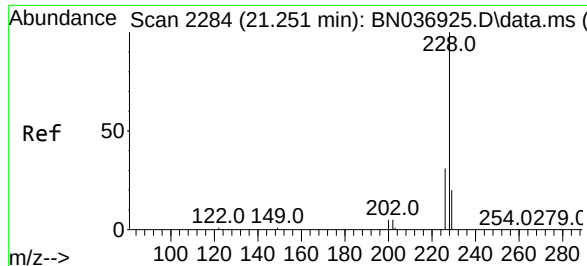
Tgt Ion:244 Resp: 78873
Ion Ratio Lower Upper
244 100
212 10.5 9.6 14.4
122 17.4 12.7 19.1



#32
Benzo(a)anthracene
Concen: 5.349 ng
RT: 21.206 min Scan# 2279
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:228 Resp: 137209
Ion Ratio Lower Upper
228 100
226 27.1 22.2 33.4
229 19.4 16.4 24.6





#33

Chrysene

Concen: 4.807 ng

RT: 21.251 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

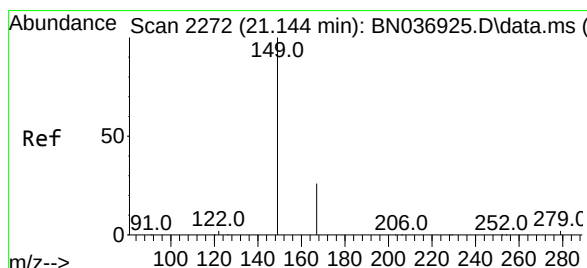
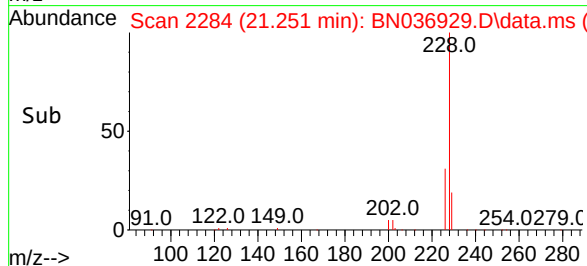
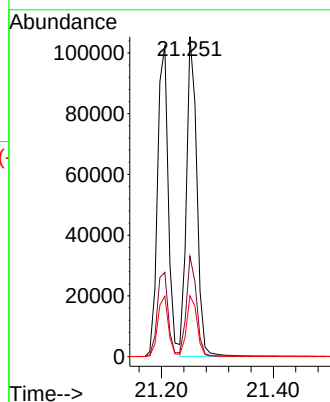
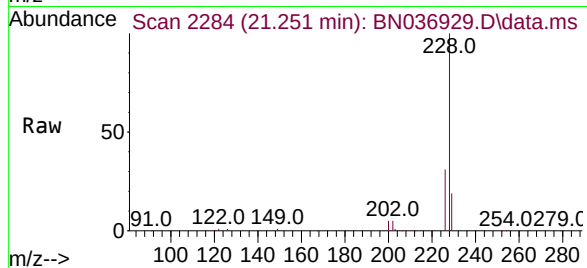
Tgt Ion:228 Resp: 135038

Ion Ratio Lower Upper

228 100

226 31.3 25.5 38.3

229 19.1 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 5.194 ng

RT: 21.143 min Scan# 2272

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

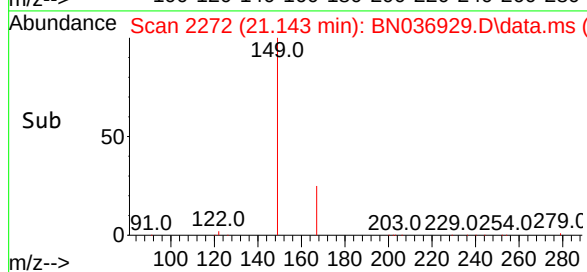
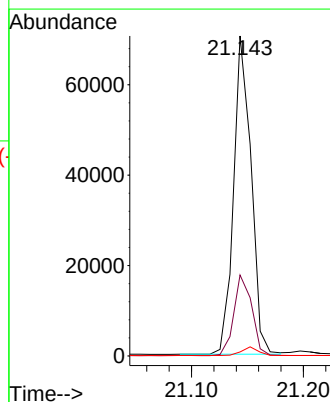
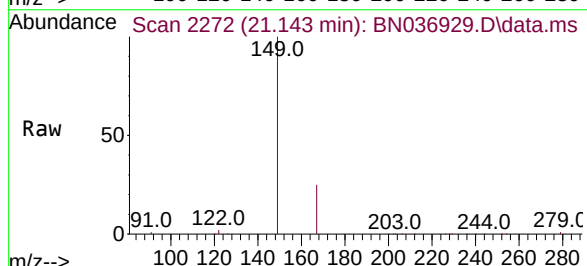
Tgt Ion:149 Resp: 76115

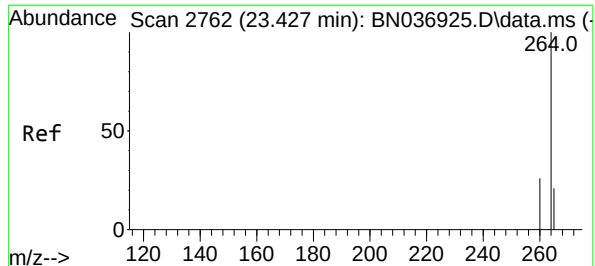
Ion Ratio Lower Upper

149 100

167 26.0 21.0 31.6

279 2.6 2.7 4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.427 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

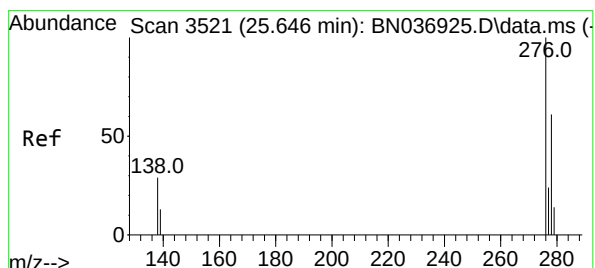
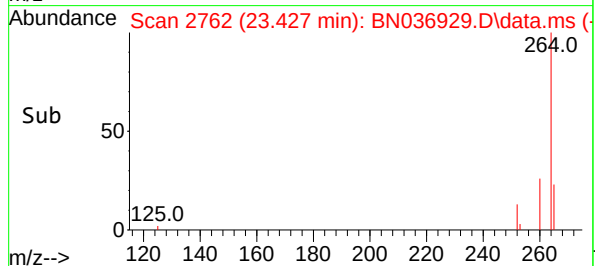
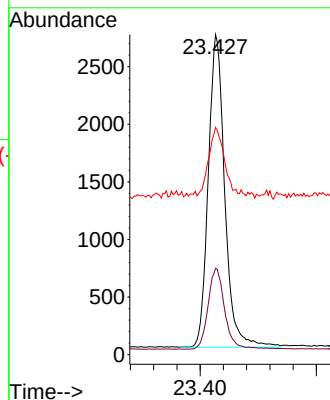
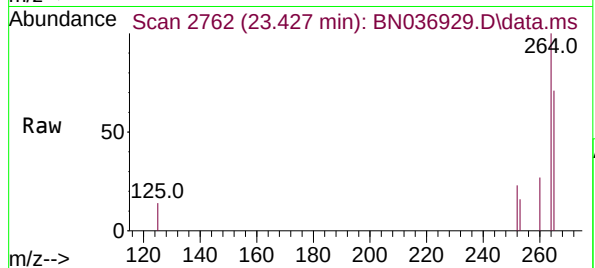
Tgt Ion:264 Resp: 5350

Ion Ratio Lower Upper

264 100

260 27.0 22.2 33.2

265 71.0 65.8 98.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 4.911 ng

RT: 25.649 min Scan# 3522

Delta R.T. 0.002 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

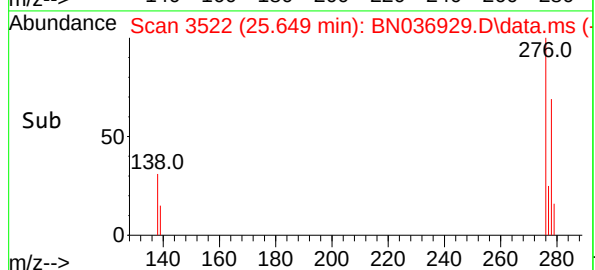
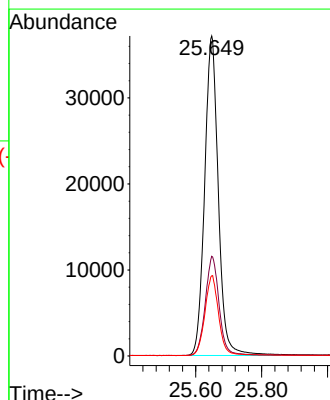
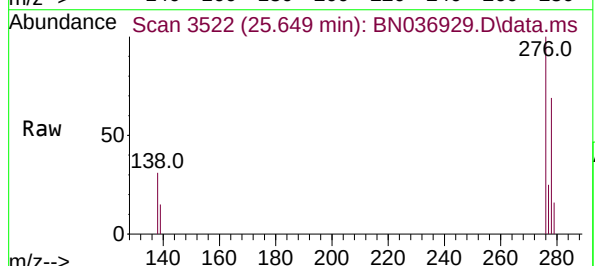
Tgt Ion:276 Resp: 107583

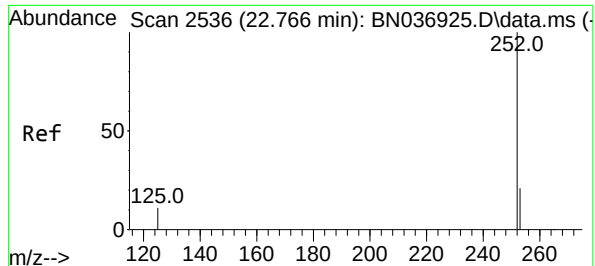
Ion Ratio Lower Upper

276 100

138 31.3 23.0 34.6

277 25.0 20.0 30.0

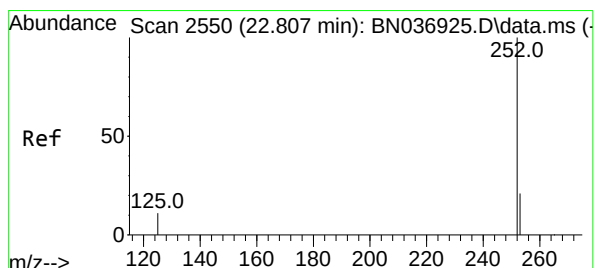
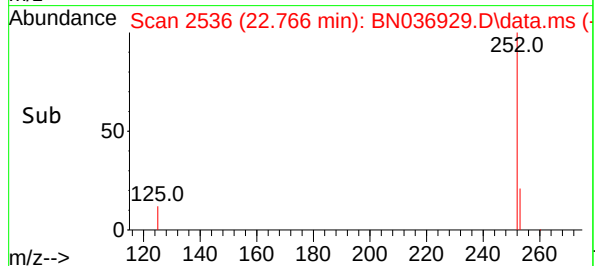
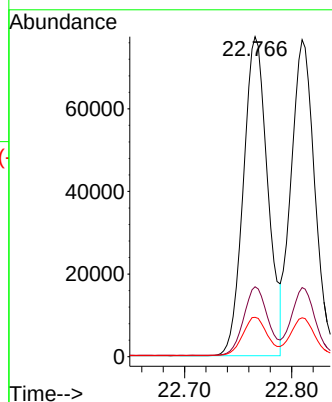
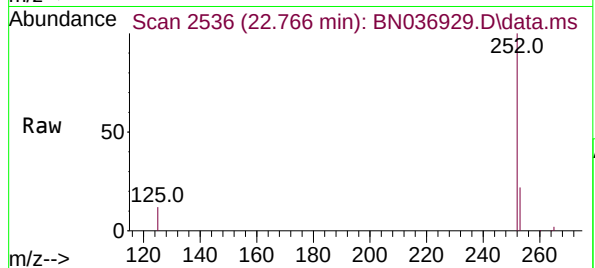




#37
Benzo(b)fluoranthene
Concen: 5.504 ng
RT: 22.766 min Scan# 2536
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

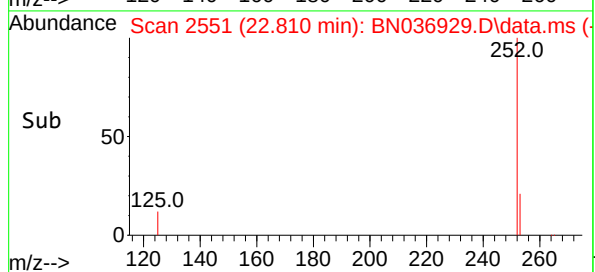
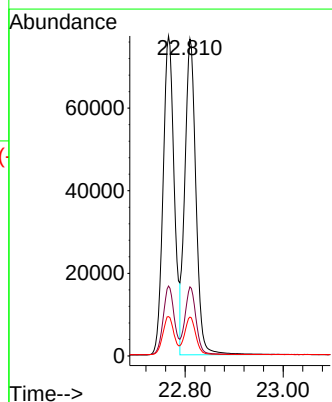
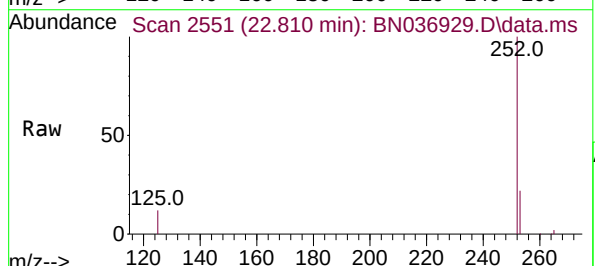
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

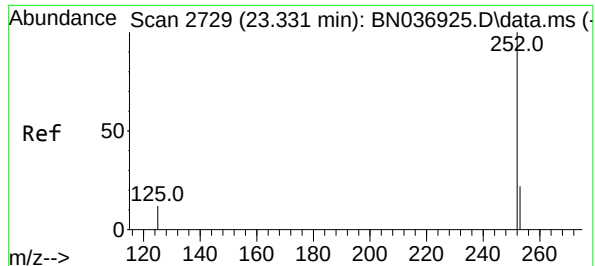
Tgt Ion:252 Resp: 122058
Ion Ratio Lower Upper
252 100
253 21.9 22.1 33.1#
125 12.3 14.2 21.2#



#38
Benzo(k)fluoranthene
Concen: 5.325 ng
RT: 22.810 min Scan# 2551
Delta R.T. 0.002 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:252 Resp: 119359
Ion Ratio Lower Upper
252 100
253 21.8 22.8 34.2#
125 12.3 14.2 21.2#





#39

Benzo(a)pyrene

Concen: 5.402 ng

RT: 23.333 min Scan# 21

Delta R.T. 0.002 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

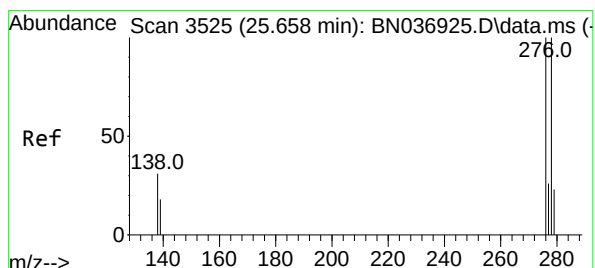
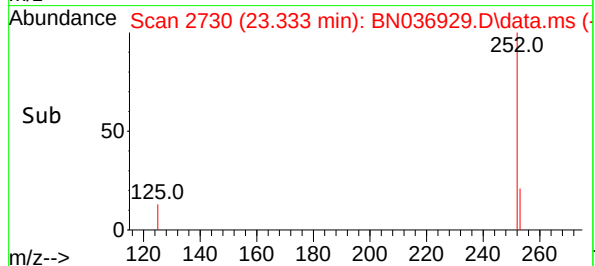
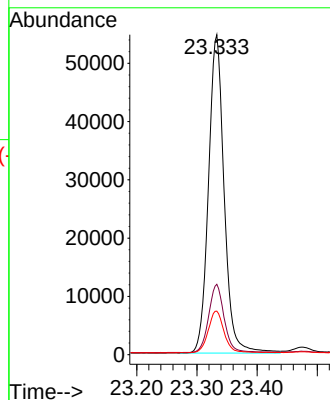
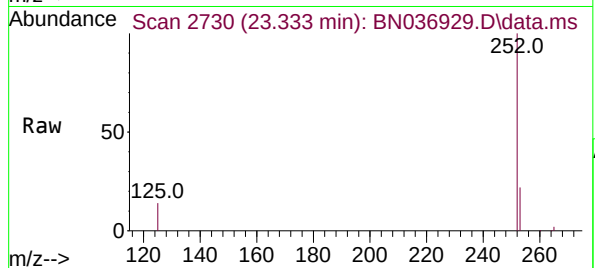
Tgt Ion:252 Resp: 98753

Ion Ratio Lower Upper

252 100

253 22.0 25.9 38.9#

125 13.6 17.4 26.0#



#40

Dibenzo(a,h)anthracene

Concen: 4.920 ng

RT: 25.660 min Scan# 3526

Delta R.T. 0.002 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

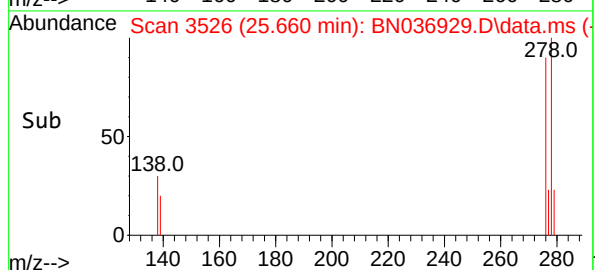
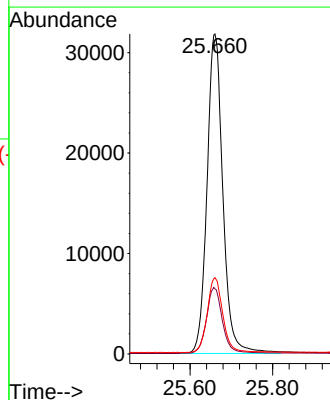
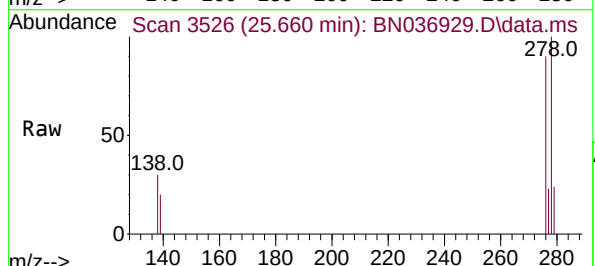
Tgt Ion:278 Resp: 84789

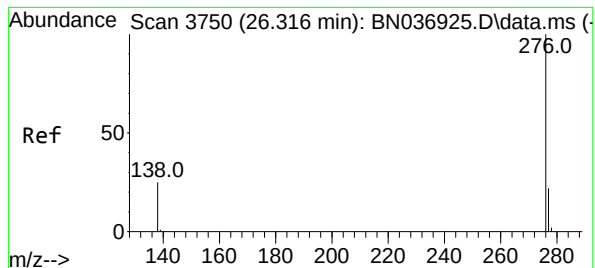
Ion Ratio Lower Upper

278 100

139 20.4 17.4 26.2

279 23.8 24.9 37.3#





#41

Benzo(g,h,i)perylene

Concen: 4.643 ng

RT: 26.324 min Scan# 31

Delta R.T. 0.008 min

Lab File: BN036929.D

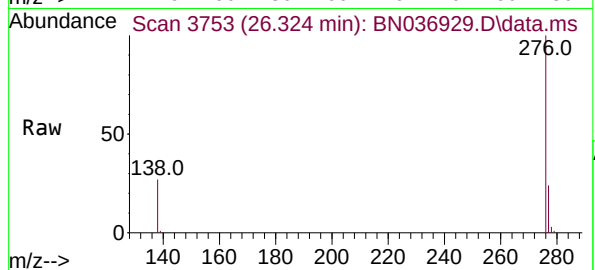
Acq: 28 Apr 2025 15:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



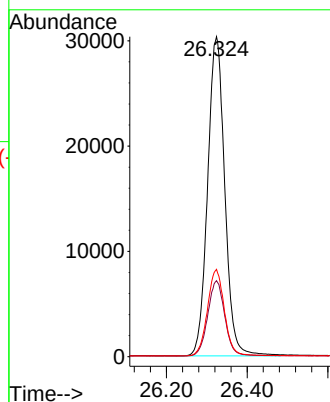
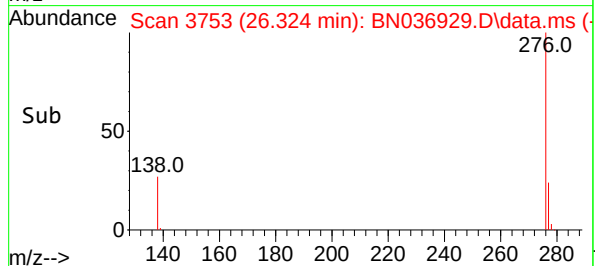
Tgt Ion:276 Resp: 89523

Ion Ratio Lower Upper

276 100

277 23.7 20.2 30.2

138 27.3 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036930.D
 Acq On : 28 Apr 2025 15:51
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN042825

Quant Time: Apr 28 18:00:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 2025
 Response via : Initial Calibration

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

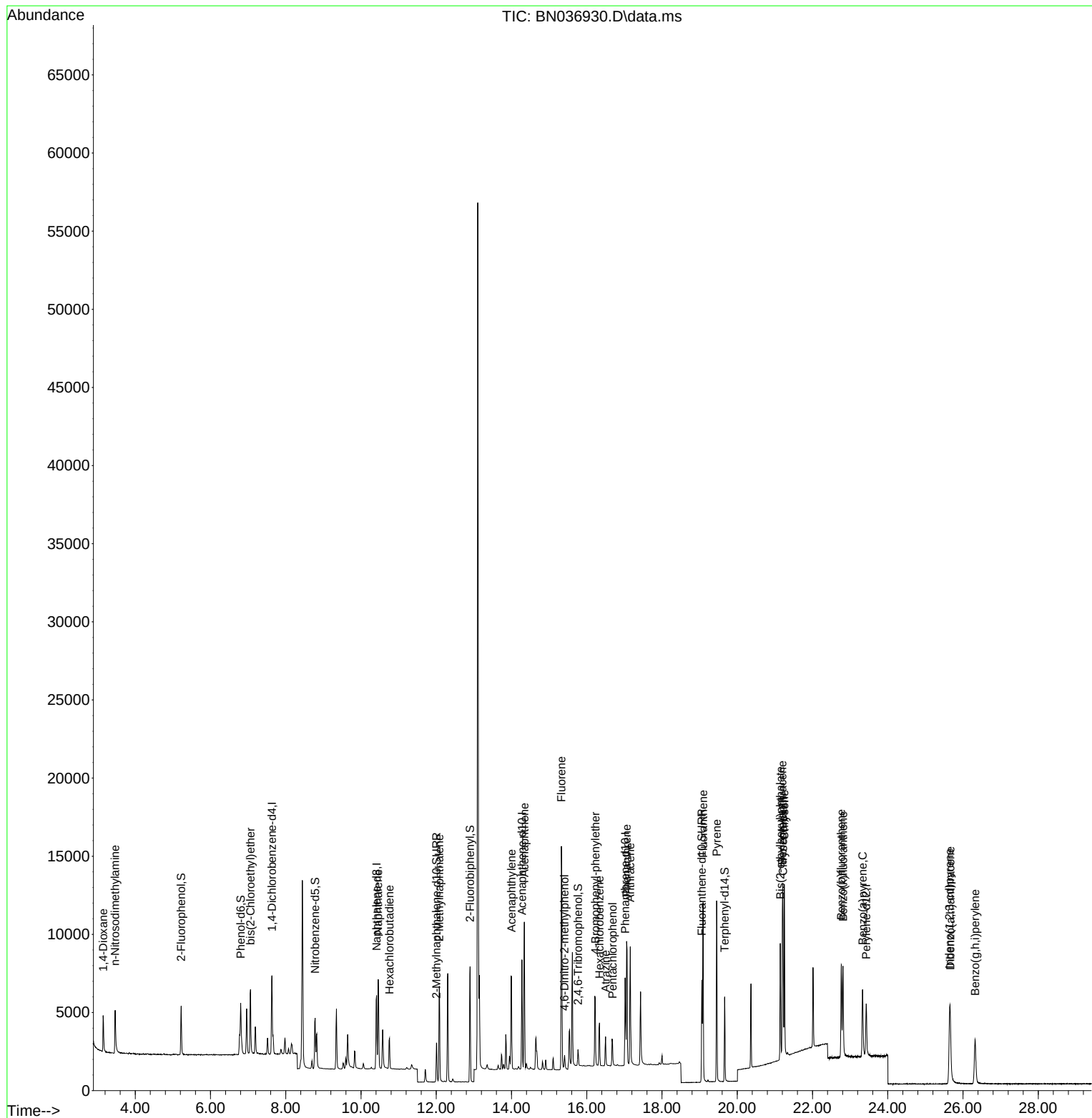
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2409	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	6199	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3595	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	7165	0.400	ng	0.00
29) Chrysene-d12	21.215	240	5561	0.400	ng	0.00
35) Perylene-d12	23.427	264	4453	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	2200	0.357	ng	0.00
5) Phenol-d6	6.802	99	2639	0.348	ng	0.00
8) Nitrobenzene-d5	8.781	82	2643	0.408	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	3565	0.411	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	524	0.327	ng	0.00
15) 2-Fluorobiphenyl	12.898	172	6791	0.391	ng	0.00
27) Fluoranthene-d10	19.059	212	7362	0.396	ng	0.00
31) Terphenyl-d14	19.667	244	5345	0.407	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.148	88	1307	0.435	ng	96
3) n-Nitrosodimethylamine	3.465	42	2382	0.409	ng	# 98
6) bis(2-Chloroethyl)ether	7.062	93	2960	0.421	ng	97
9) Naphthalene	10.458	128	7201	0.399	ng	100
10) Hexachlorobutadiene	10.757	225	1616	0.414	ng	# 98
12) 2-Methylnaphthalene	12.082	142	4278	0.367	ng	100
16) Acenaphthylene	13.999	152	7225	0.411	ng	100
17) Acenaphthene	14.341	154	4406	0.382	ng	100
18) Fluorene	15.325	166	5893	0.390	ng	100
20) 4,6-Dinitro-2-methylph...	15.410	198	612	0.323	ng	91
21) 4-Bromophenyl-phenylether	16.227	248	1798	0.376	ng	96
22) Hexachlorobenzene	16.338	284	2026	0.387	ng	99
23) Atrazine	16.500	200	1554	0.403	ng	99
24) Pentachlorophenol	16.686	266	885	0.315	ng	99
25) Phenanthrene	17.058	178	9212	0.390	ng	100
26) Anthracene	17.157	178	8400	0.393	ng	100
28) Fluoranthene	19.091	202	10081	0.380	ng	99
30) Pyrene	19.453	202	10076	0.376	ng	100
32) Benzo(a)anthracene	21.197	228	8105	0.396	ng	98
33) Chrysene	21.251	228	8947	0.405	ng	99
34) Bis(2-ethylhexyl)phtha...	21.144	149	4190	0.360	ng	99
36) Indeno(1,2,3-cd)pyrene	25.640	276	6626	0.364	ng	99
37) Benzo(b)fluoranthene	22.763	252	7283	0.389	ng	99
38) Benzo(k)fluoranthene	22.810	252	7655	0.407	ng	98
39) Benzo(a)pyrene	23.330	252	6417	0.417	ng	97
40) Dibenzo(a,h)anthracene	25.663	278	5177	0.362	ng	99
41) Benzo(g,h,i)perylene	26.321	276	5705	0.359	ng	98

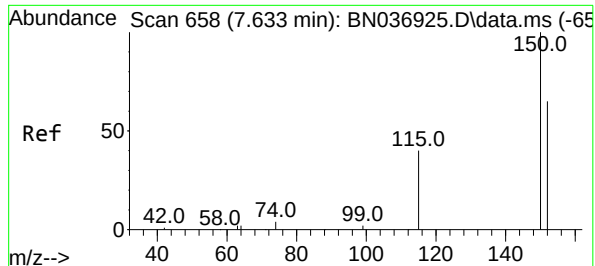
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036930.D
Acq On : 28 Apr 2025 15:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Quant Time: Apr 28 18:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

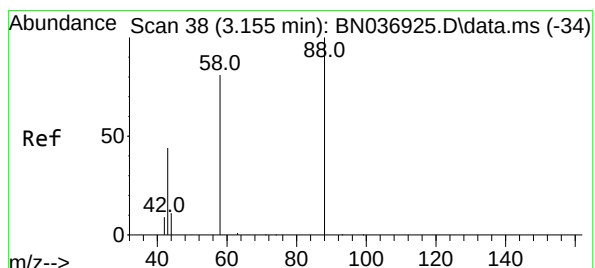
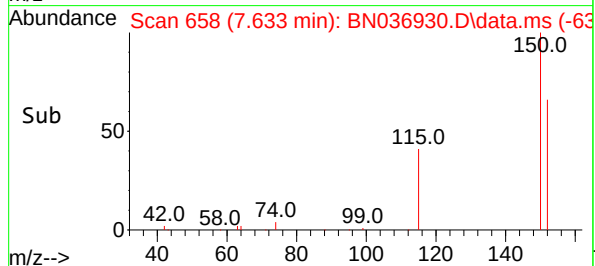
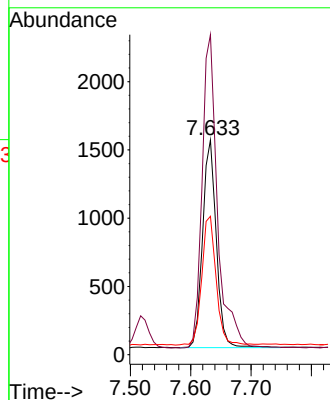
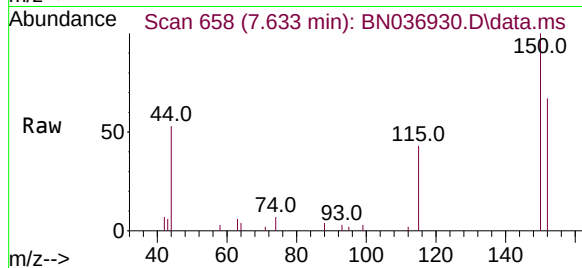




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

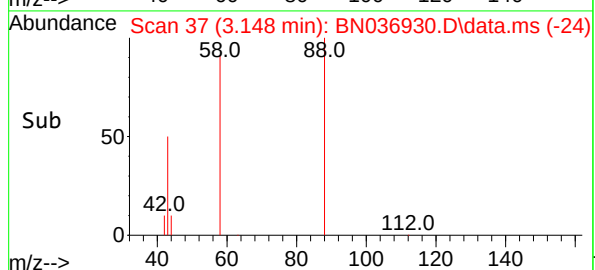
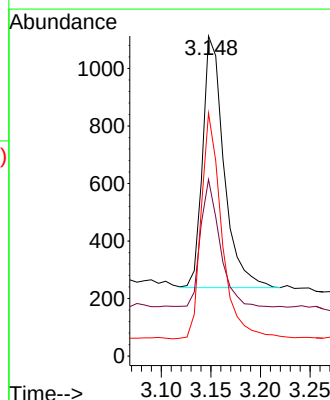
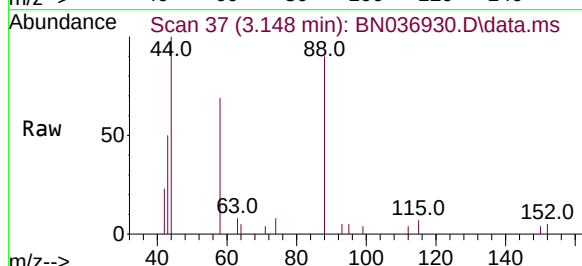
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

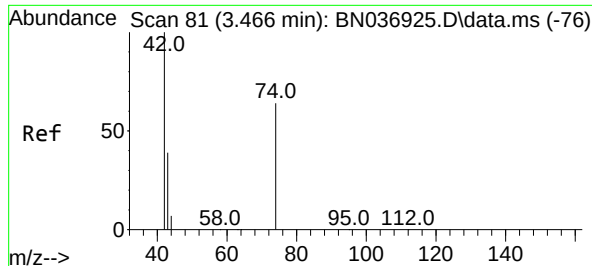
Tgt Ion: 152 Resp: 2409
Ion Ratio Lower Upper
152 100
150 149.0 121.1 181.7
115 64.5 51.8 77.6



#2
1,4-Dioxane
Concen: 0.435 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion: 88 Resp: 1307
Ion Ratio Lower Upper
88 100
43 46.8 37.9 56.9
58 87.2 65.8 98.6

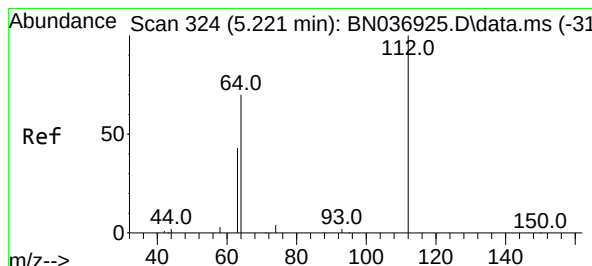
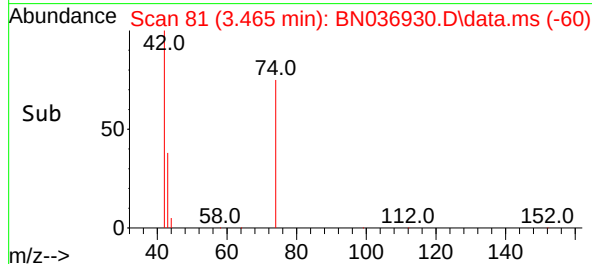
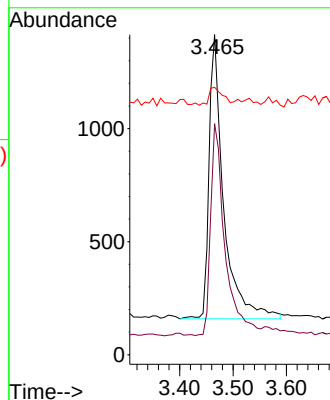
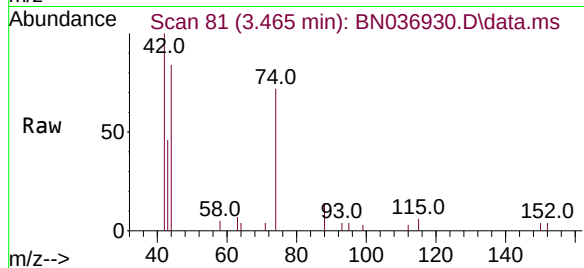




#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.465 min Scan# 81
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

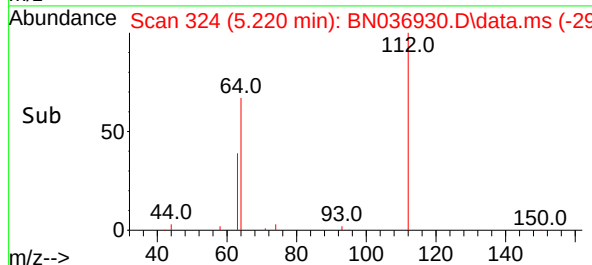
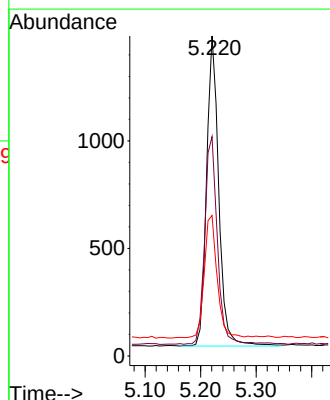
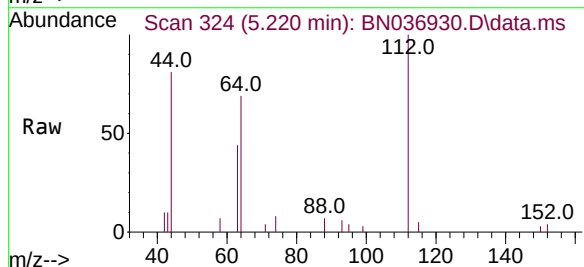
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

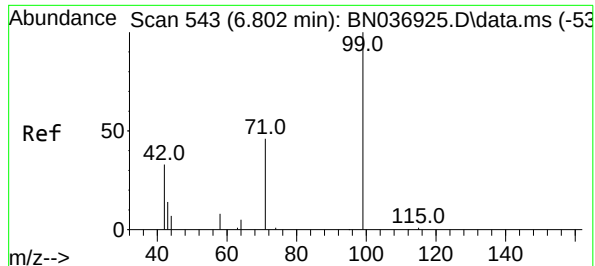
Tgt Ion: 42 Resp: 2382
Ion Ratio Lower Upper
42 100
74 73.5 59.9 89.9
44 6.3 7.5 11.3#



#4
2-Fluorophenol
Concen: 0.357 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion: 112 Resp: 2200
Ion Ratio Lower Upper
112 100
64 69.0 55.7 83.5
63 41.9 33.9 50.9

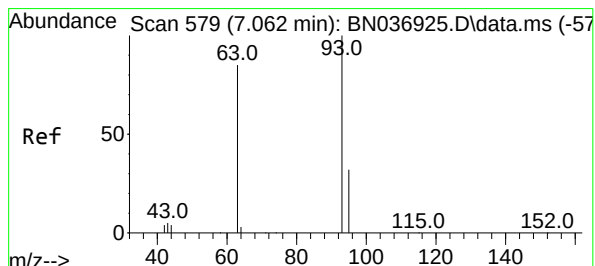
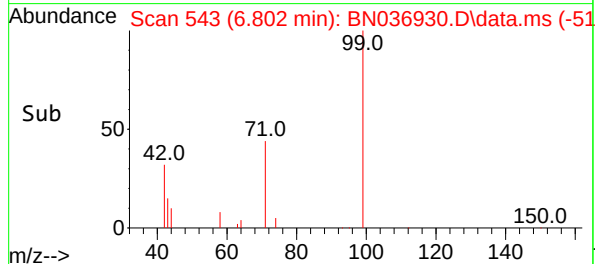
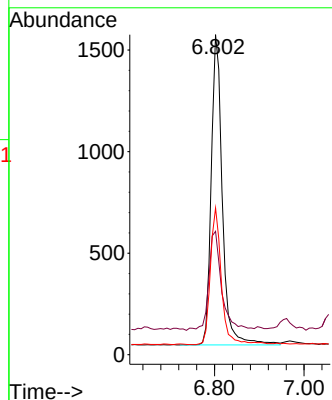
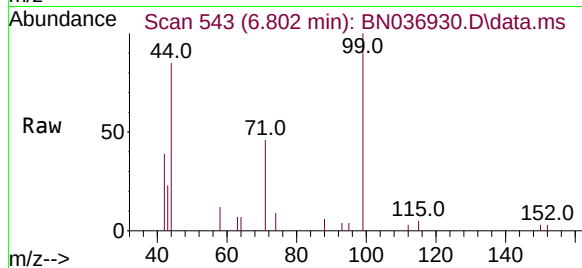




#5
Phenol-d6
Concen: 0.348 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

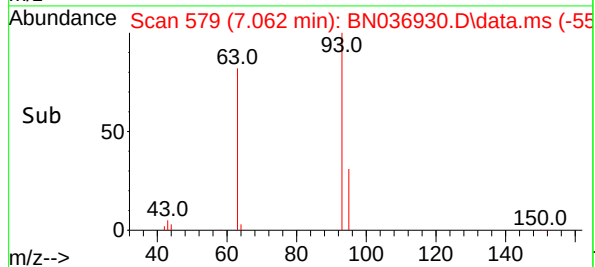
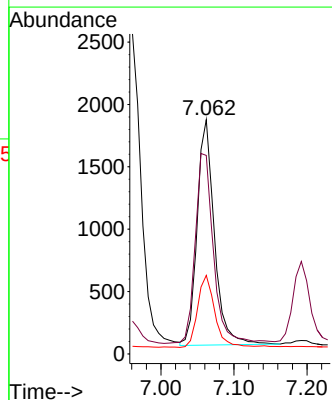
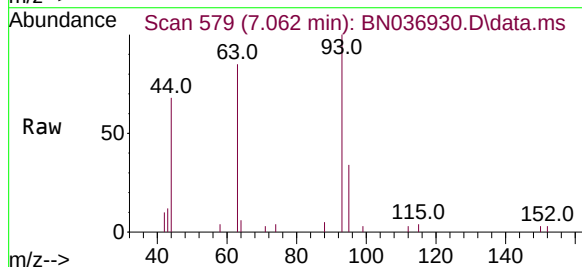
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

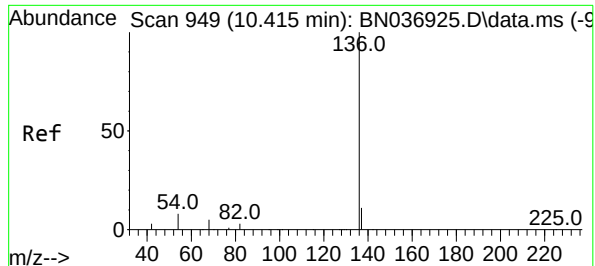
Tgt Ion	Ratio	Lower	Upper
99	100		
42	36.9	29.6	44.4
71	43.1	36.0	54.0



#6
bis(2-Chloroethyl)ether
Concen: 0.421 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion	Ratio	Lower	Upper
93	100		
63	89.5	69.0	103.6
95	31.8	25.4	38.0

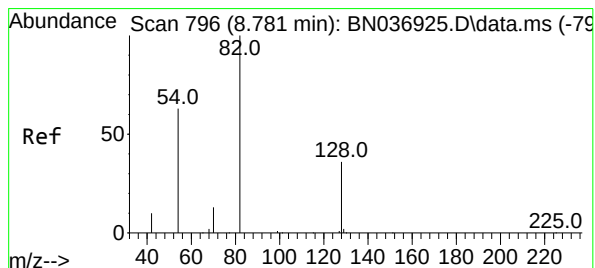
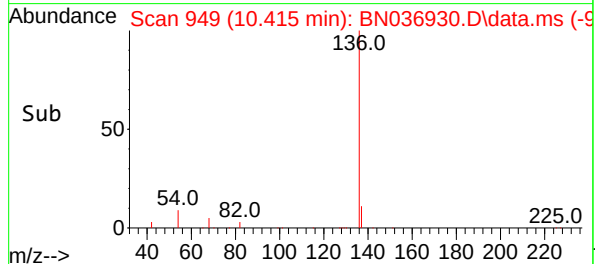
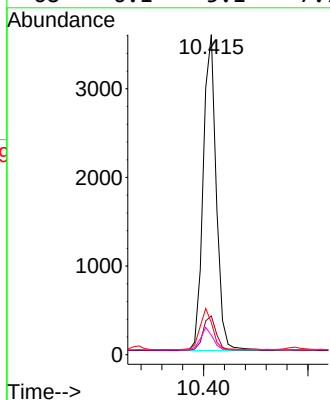
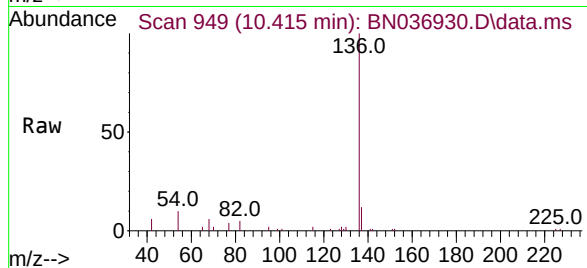




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

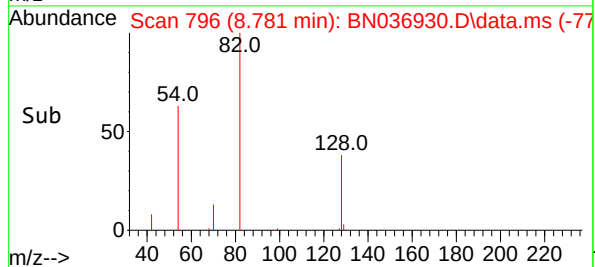
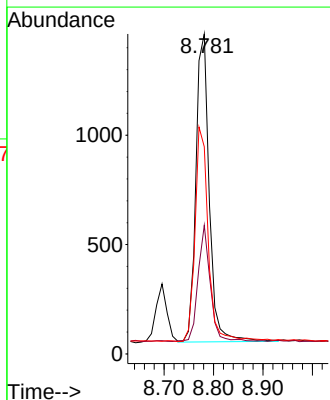
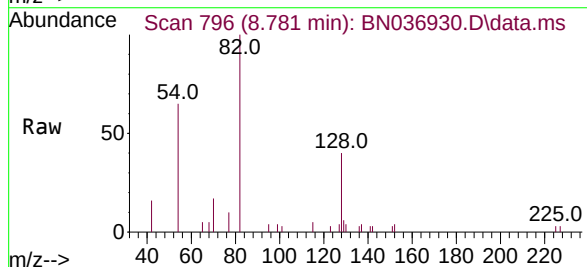
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

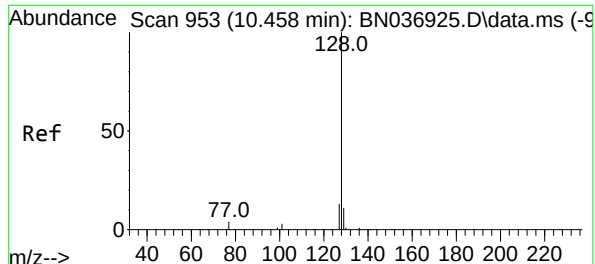
Tgt Ion:	136	Resp:	6199
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.7	14.5
54	10.1	8.0	12.0
68	6.1	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.408 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:	82	Resp:	2643
Ion	Ratio	Lower	Upper
82	100		
128	40.2	30.7	46.1
54	64.7	52.1	78.1

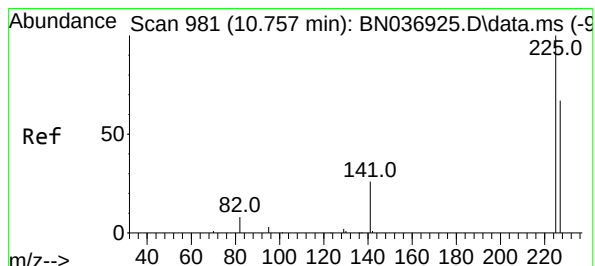
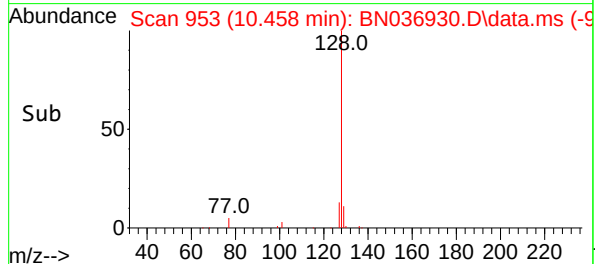
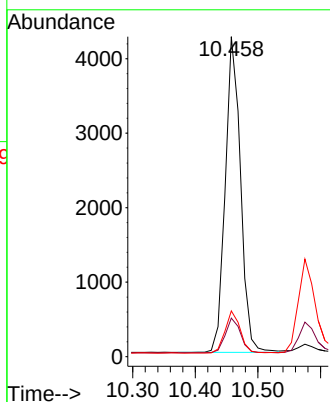
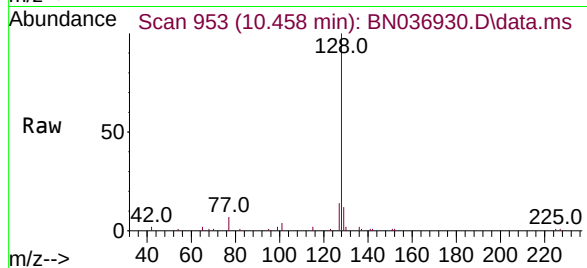




#9
Naphthalene
Concen: 0.399 ng
RT: 10.458 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

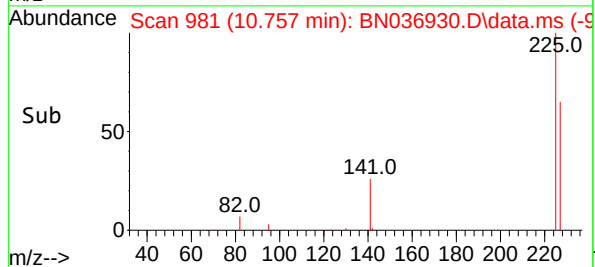
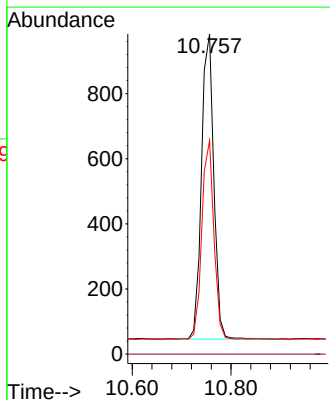
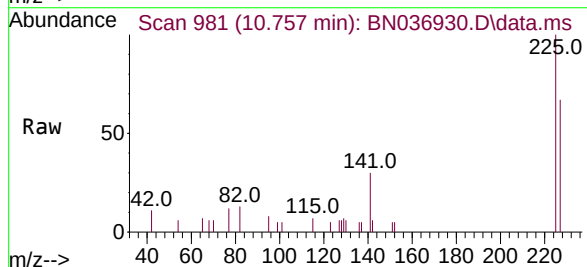
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

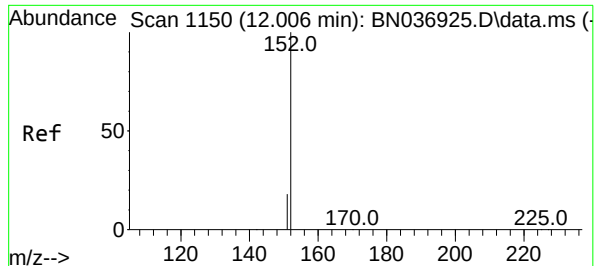
Tgt Ion:128 Resp: 7201
Ion Ratio Lower Upper
128 100
129 12.1 9.8 14.6
127 14.3 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.414 ng
RT: 10.757 min Scan# 981
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:225 Resp: 1616
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 52.2 78.4

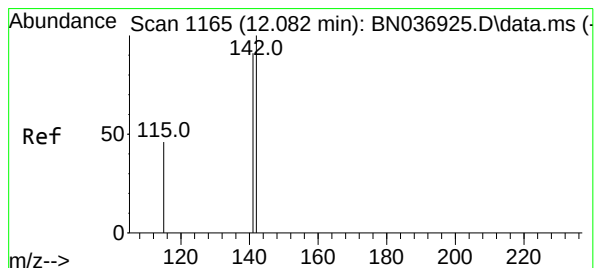
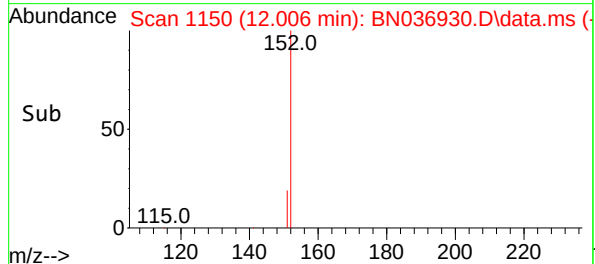
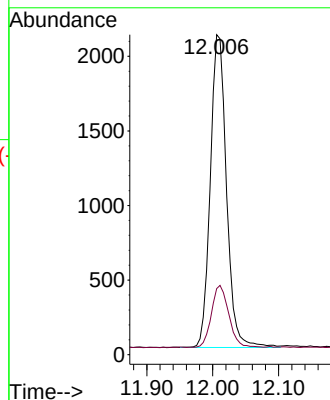
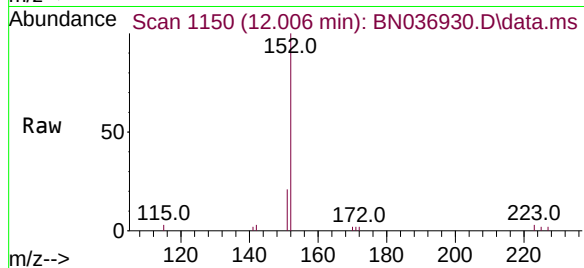




#11
2-Methylnaphthalene-d10
Concen: 0.411 ng
RT: 12.006 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

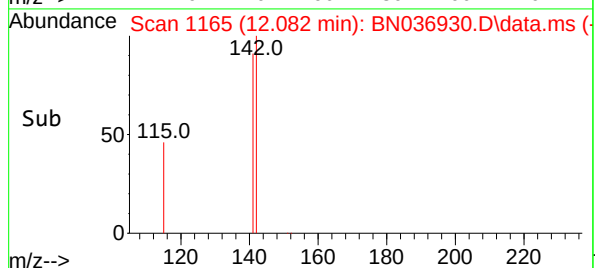
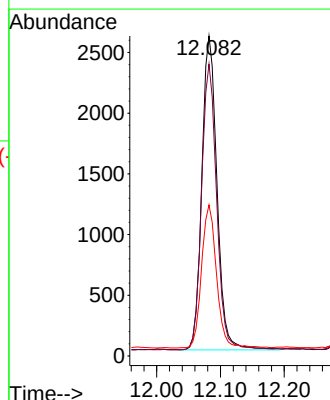
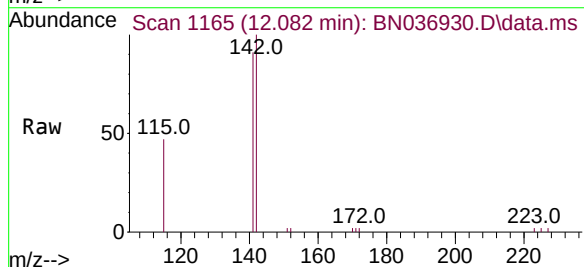
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

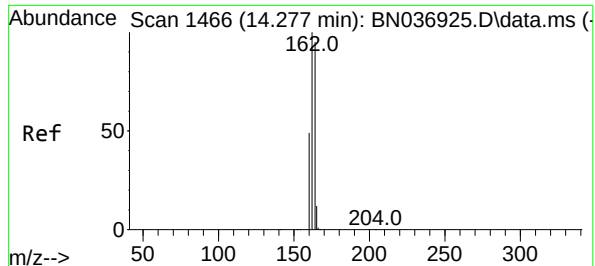
Tgt Ion:152 Resp: 3565
Ion Ratio Lower Upper
152 100
151 21.3 16.9 25.3



#12
2-Methylnaphthalene
Concen: 0.367 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:142 Resp: 4278
Ion Ratio Lower Upper
142 100
141 91.2 72.8 109.2
115 47.2 38.2 57.4

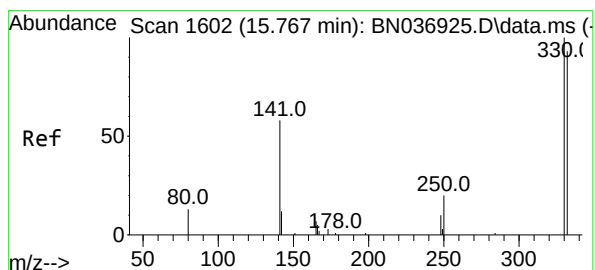
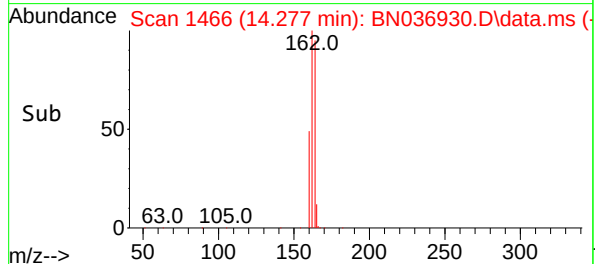
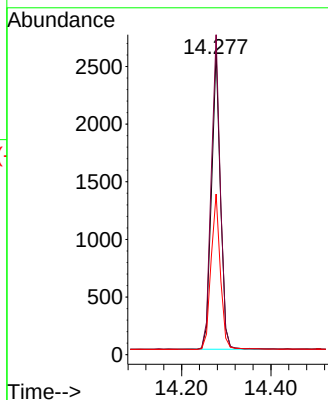
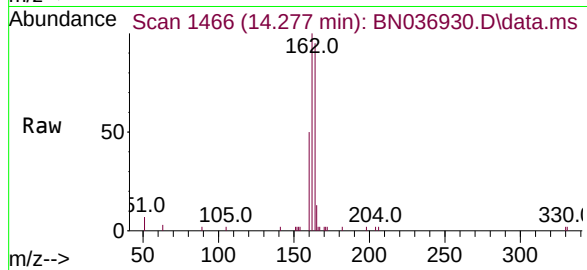




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

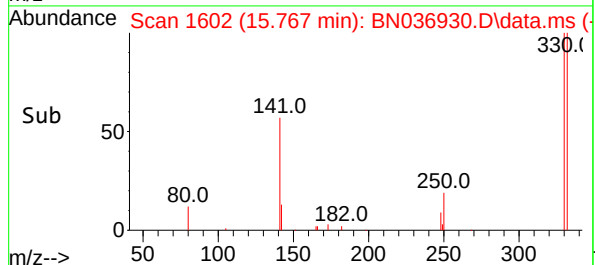
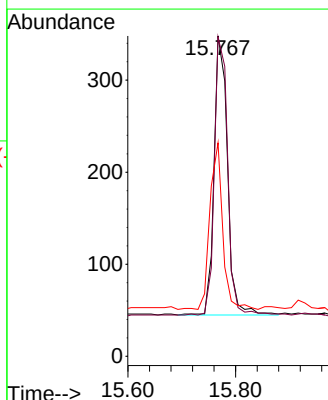
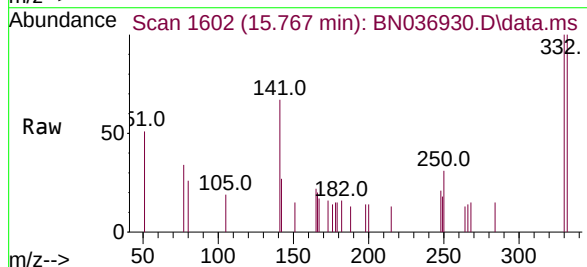
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

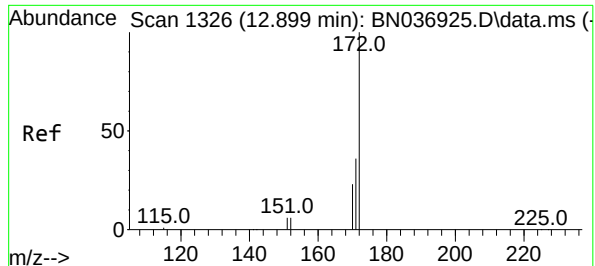
Tgt Ion:164 Resp: 3595
Ion Ratio Lower Upper
164 100
162 105.4 83.8 125.8
160 52.9 42.0 63.0



#14
2,4,6-Tribromophenol
Concen: 0.327 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:330 Resp: 524
Ion Ratio Lower Upper
330 100
332 98.9 76.3 114.5
141 56.5 45.4 68.2





#15

2-Fluorobiphenyl

Concen: 0.391 ng

RT: 12.898 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825

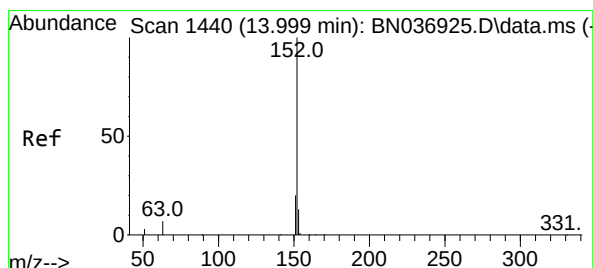
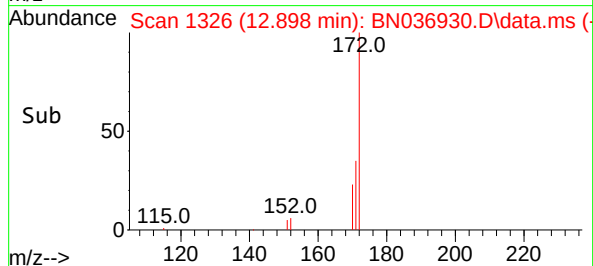
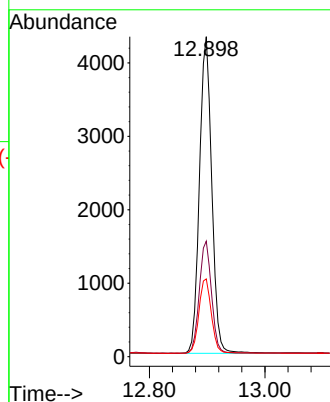
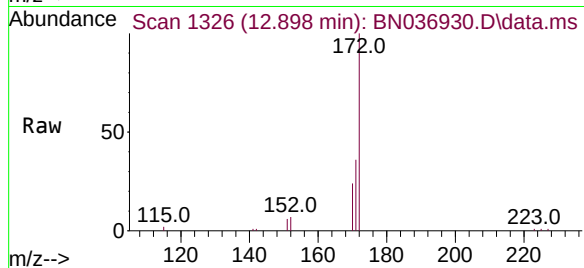
Tgt Ion:172 Resp: 6791

Ion Ratio Lower Upper

172 100

171 36.1 29.4 44.0

170 24.3 19.4 29.0



#16

Acenaphthylene

Concen: 0.411 ng

RT: 13.999 min Scan# 1440

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

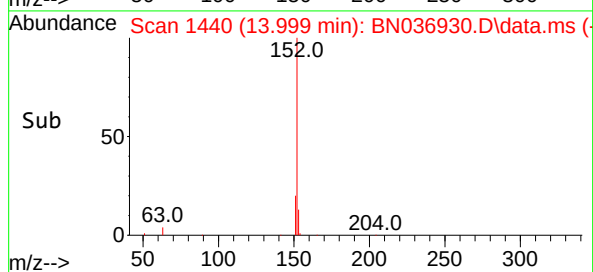
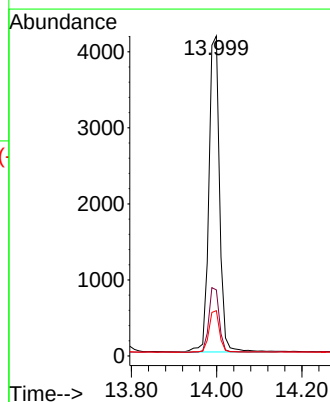
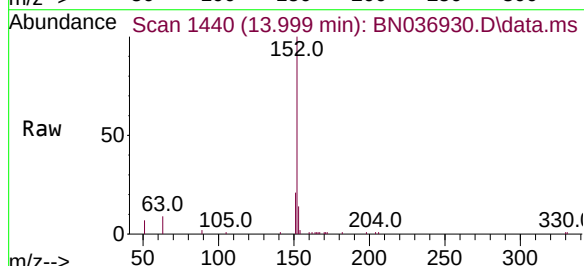
Tgt Ion:152 Resp: 7225

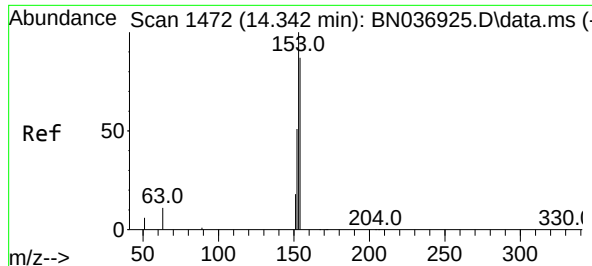
Ion Ratio Lower Upper

152 100

151 20.1 16.0 24.0

153 13.0 10.2 15.2

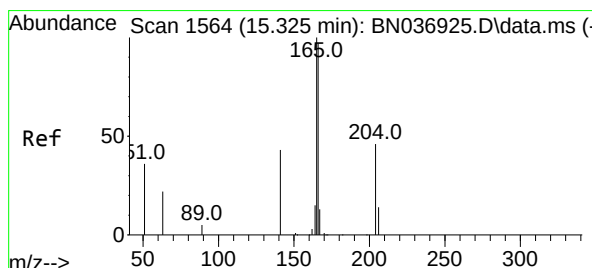
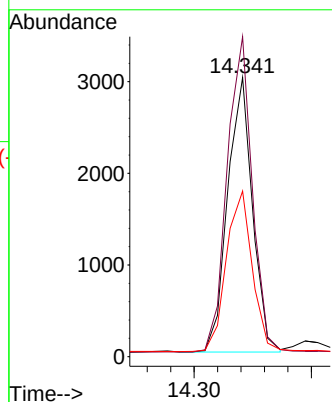
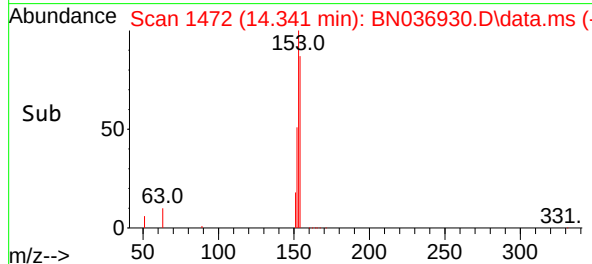
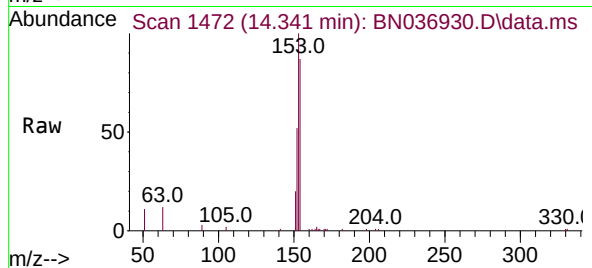




#17
Acenaphthene
Concen: 0.382 ng
RT: 14.341 min Scan# 1472
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

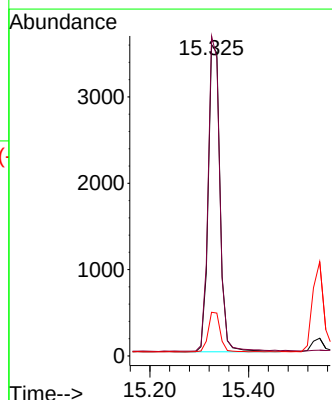
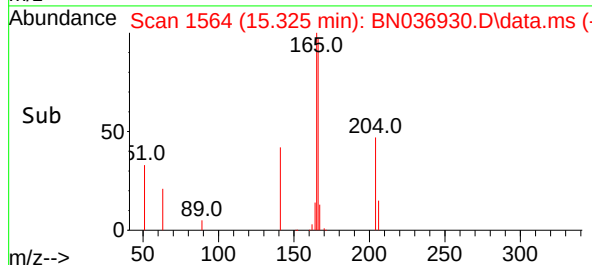
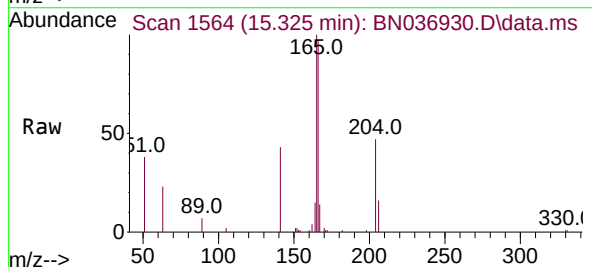
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

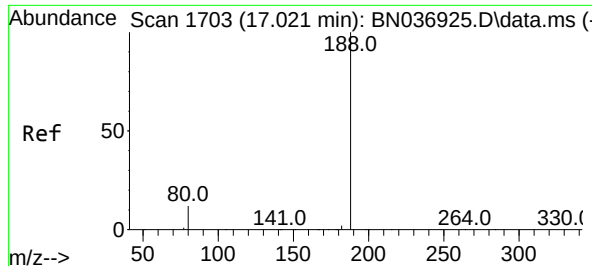
Tgt Ion:154 Resp: 4406
Ion Ratio Lower Upper
154 100
153 116.8 93.4 140.2
152 61.9 49.5 74.3



#18
Fluorene
Concen: 0.390 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:166 Resp: 5893
Ion Ratio Lower Upper
166 100
165 100.7 80.8 121.2
167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825

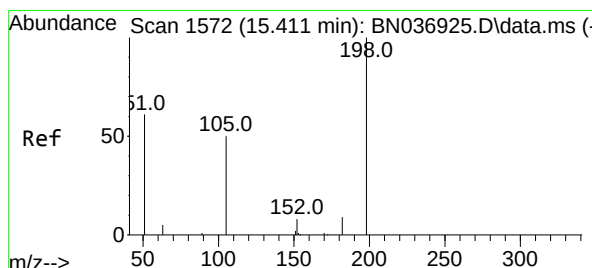
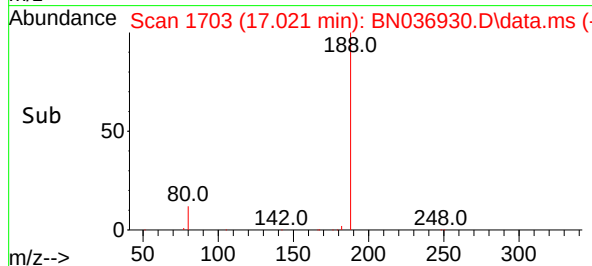
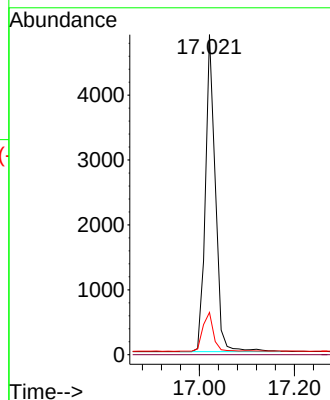
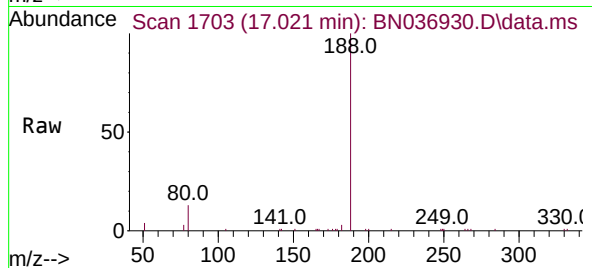
Tgt Ion:188 Resp: 7165

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.2 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 0.323 ng

RT: 15.410 min Scan# 1572

Delta R.T. -0.001 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

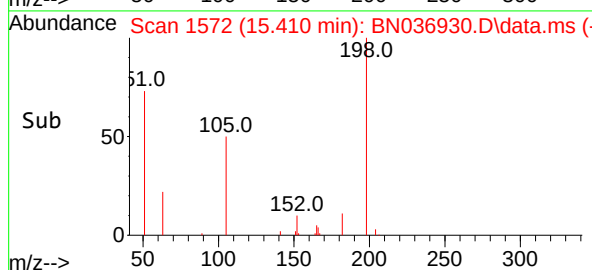
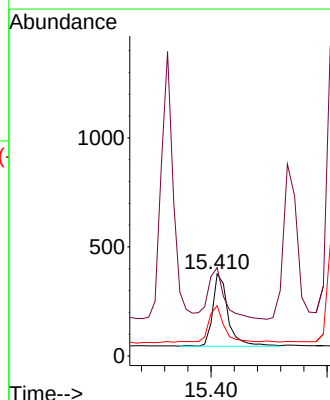
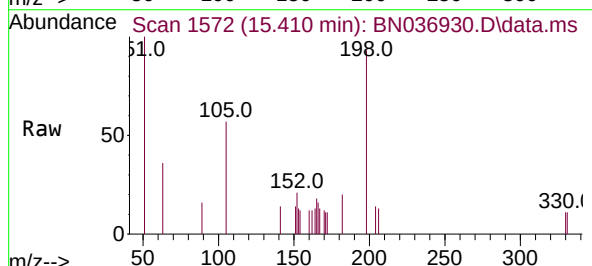
Tgt Ion:198 Resp: 612

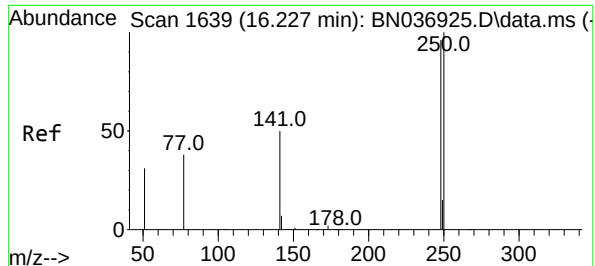
Ion Ratio Lower Upper

198 100

51 107.7 97.9 146.9

105 61.2 50.0 75.0

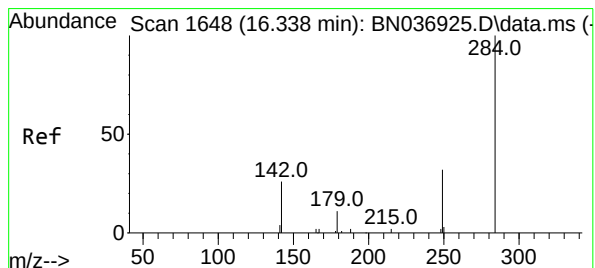
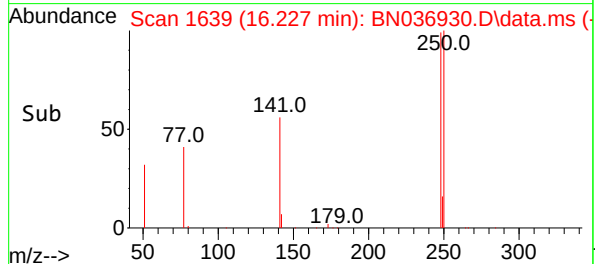
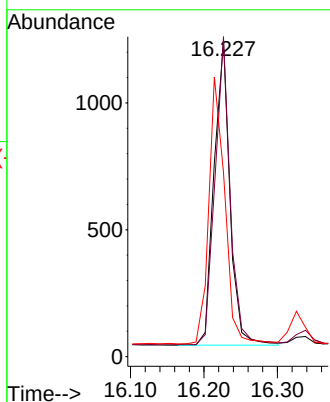
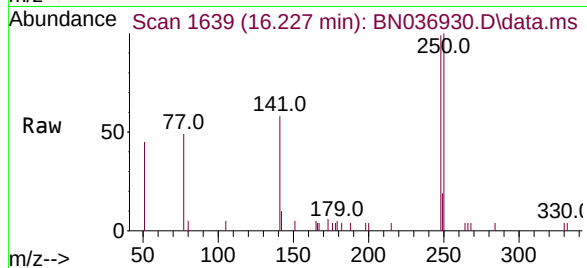




#21
4-Bromophenyl-phenylether
Concen: 0.376 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

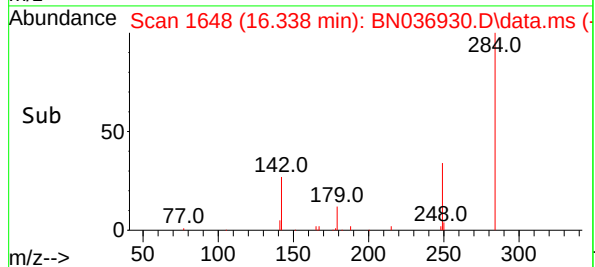
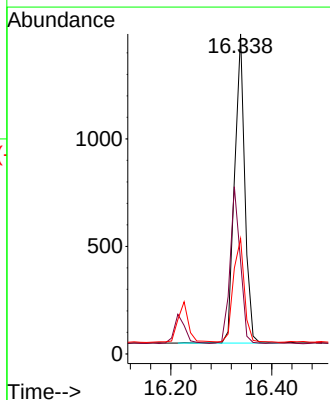
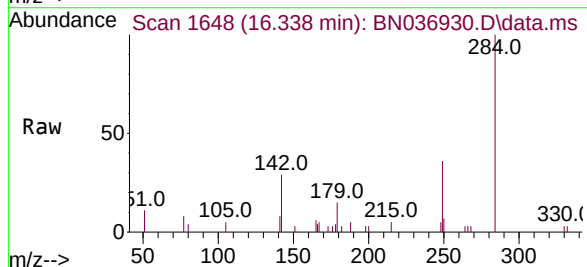
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

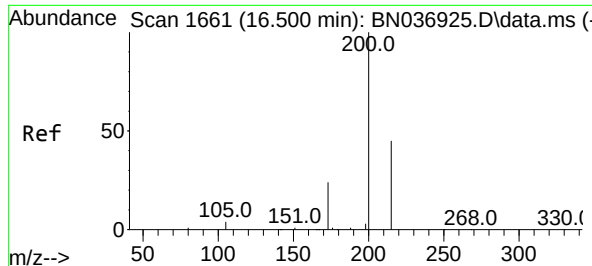
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.3	83.7	125.5
141	58.3	43.8	65.8



#22
Hexachlorobenzene
Concen: 0.387 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion	Ratio	Lower	Upper
284	100		
142	50.7	40.0	60.0
249	36.4	28.2	42.2

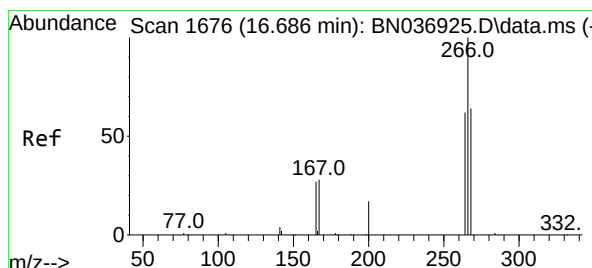
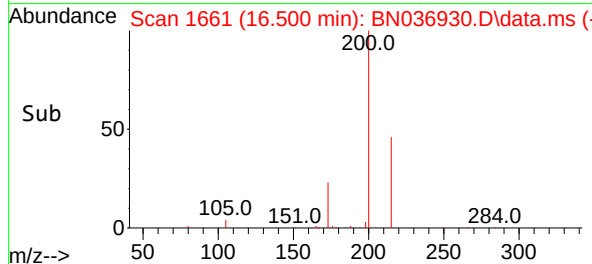
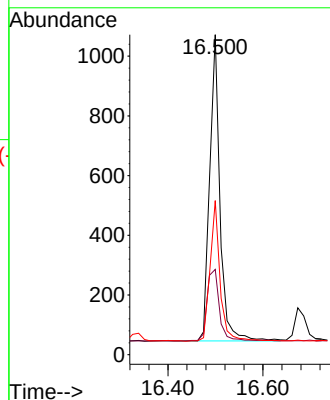
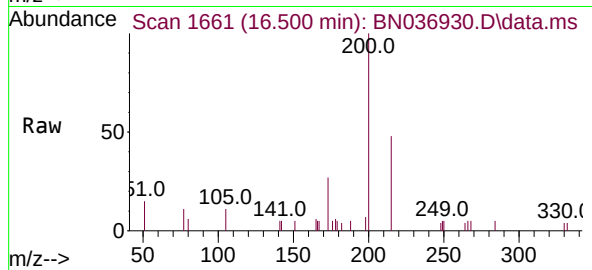




#23
Atrazine
Concen: 0.403 ng
RT: 16.500 min Scan# 1661
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

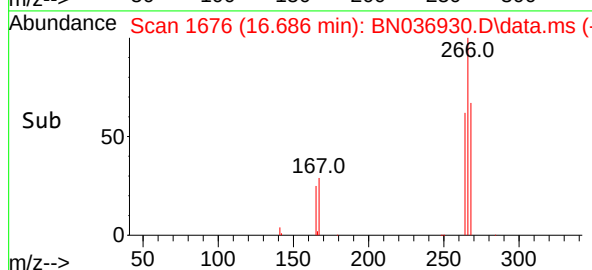
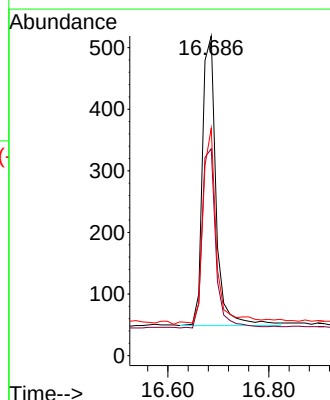
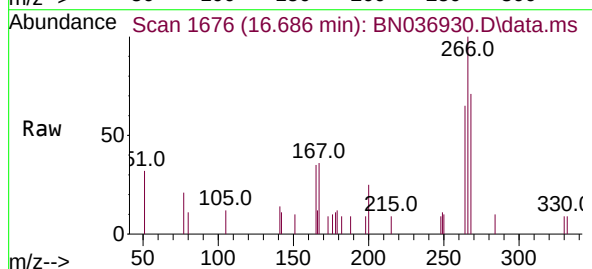
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

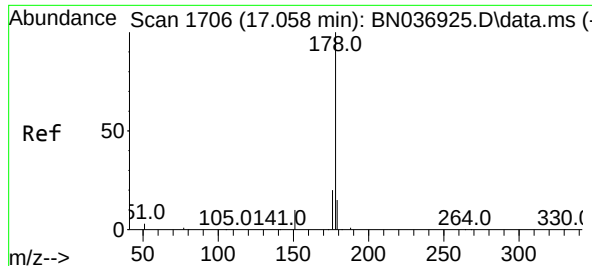
Tgt Ion	200	Resp:	1554
Ion Ratio	Lower	Upper	
200	100		
173	26.7	22.4	33.6
215	48.1	38.6	57.8



#24
Pentachlorophenol
Concen: 0.315 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion	266	Resp:	885
Ion Ratio	Lower	Upper	
266	100		
264	62.4	49.9	74.9
268	67.1	52.2	78.4

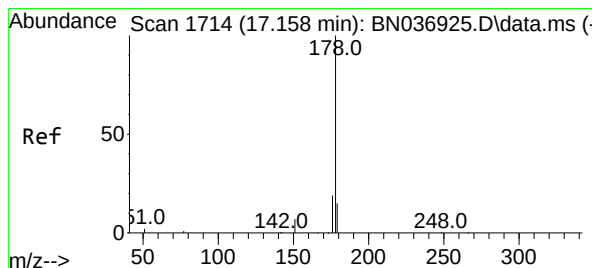
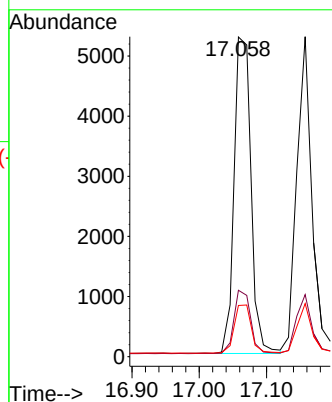
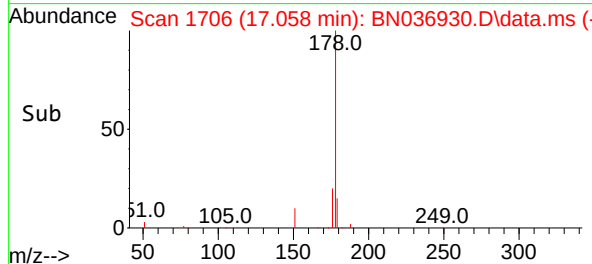
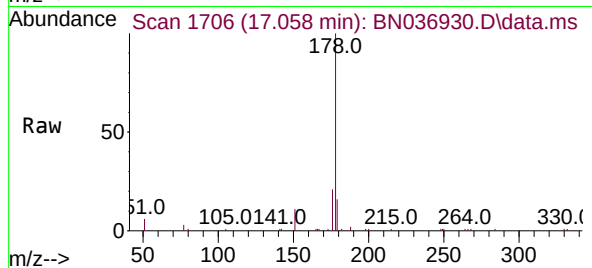




#25
Phenanthrene
Concen: 0.390 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

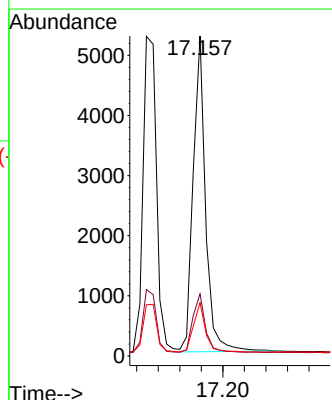
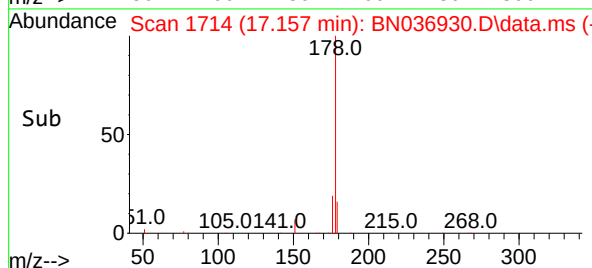
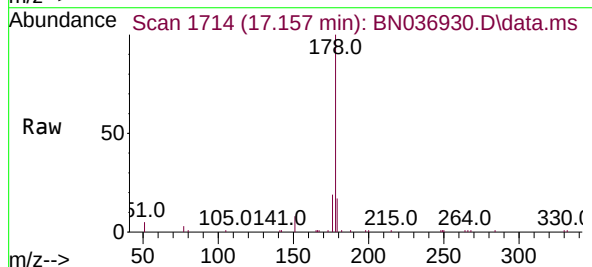
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

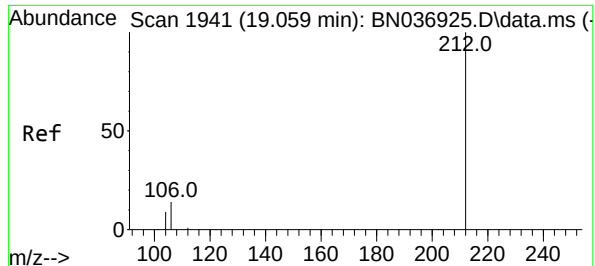
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.7	23.5
179	15.5	12.4	18.6



#26
Anthracene
Concen: 0.393 ng
RT: 17.157 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.1	12.1	18.1





#27

Fluoranthene-d10

Concen: 0.396 ng

RT: 19.059 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825

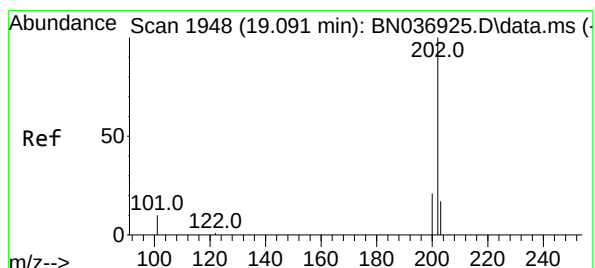
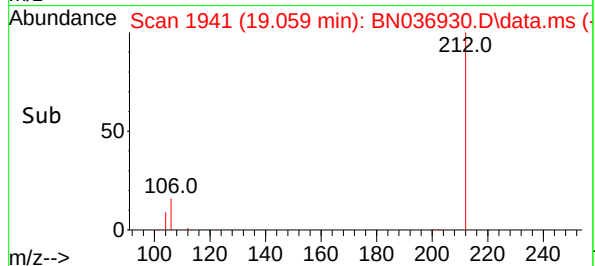
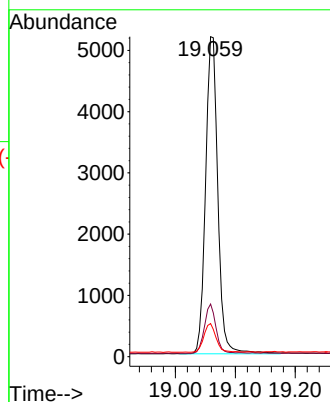
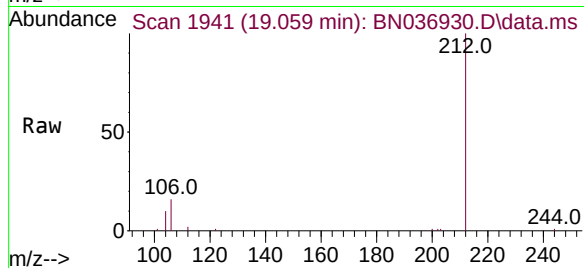
Tgt Ion:212 Resp: 7362

Ion Ratio Lower Upper

212 100

106 14.7 11.6 17.4

104 9.0 7.0 10.4



#28

Fluoranthene

Concen: 0.380 ng

RT: 19.091 min Scan# 1948

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

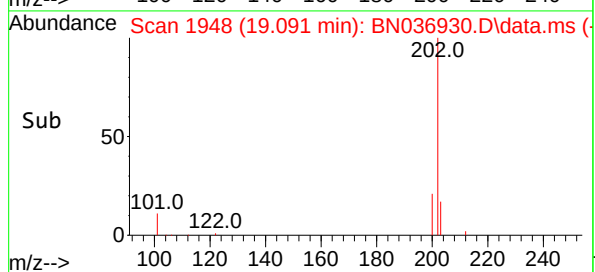
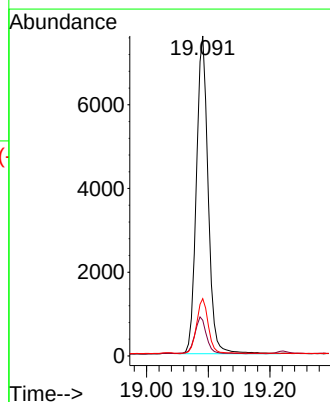
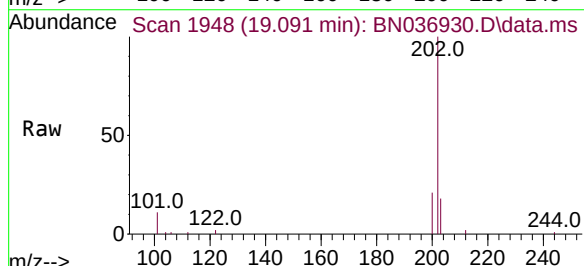
Tgt Ion:202 Resp: 10081

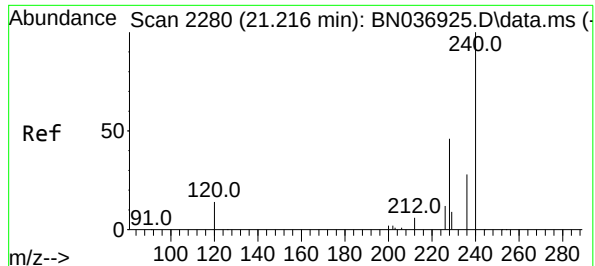
Ion Ratio Lower Upper

202 100

101 11.4 8.5 12.7

203 17.0 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.215 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825

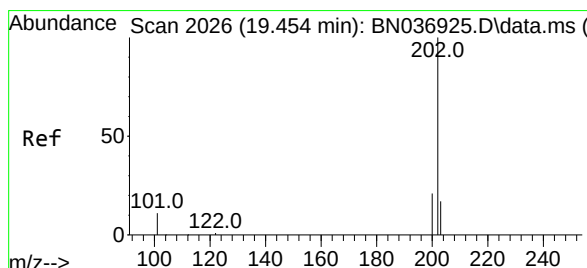
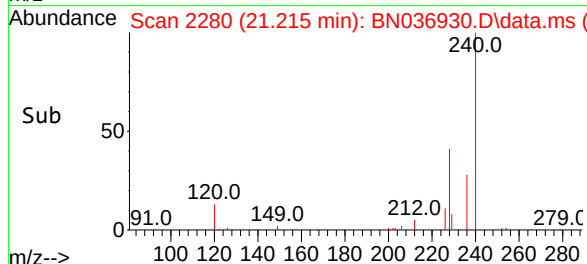
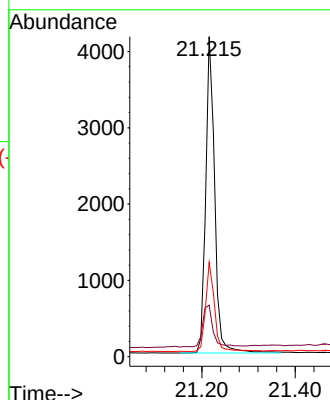
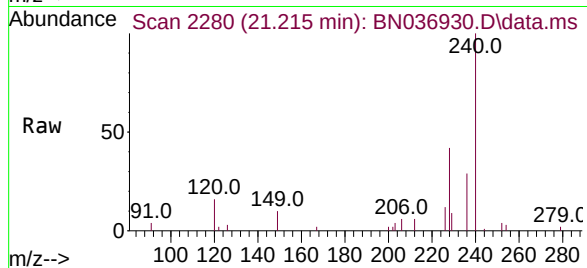
Tgt Ion:240 Resp: 5561

Ion Ratio Lower Upper

240 100

120 16.1 14.1 21.1

236 29.5 23.8 35.8



#30

Pyrene

Concen: 0.376 ng

RT: 19.453 min Scan# 2026

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

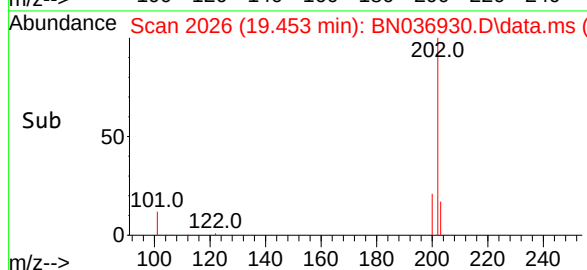
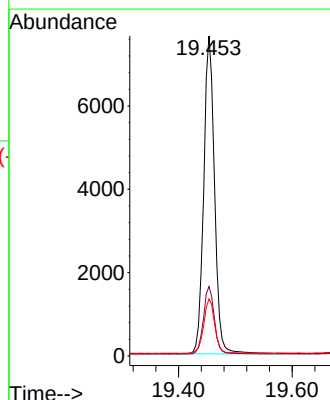
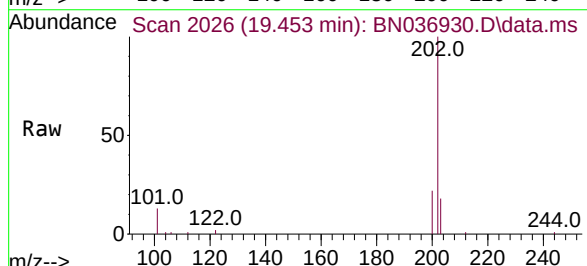
Tgt Ion:202 Resp: 10076

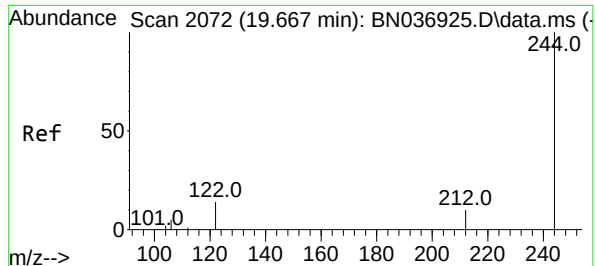
Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.6

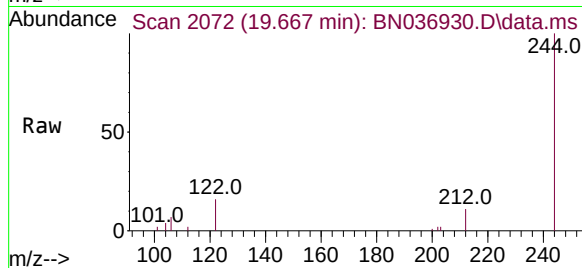
203 17.6 14.0 21.0



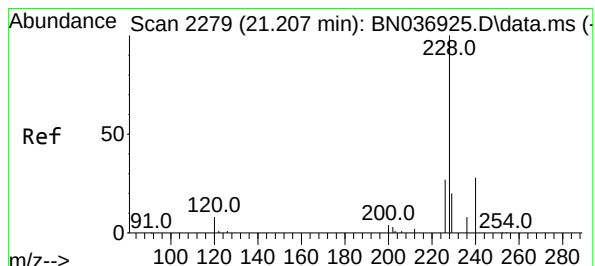
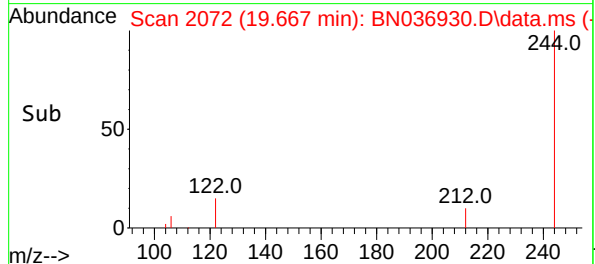
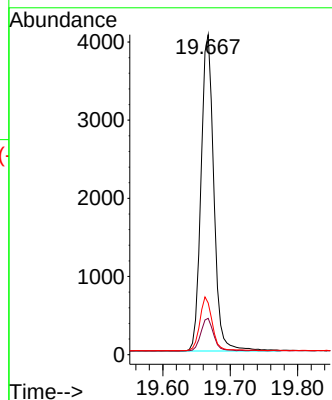


#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.667 min Scan# 2072
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

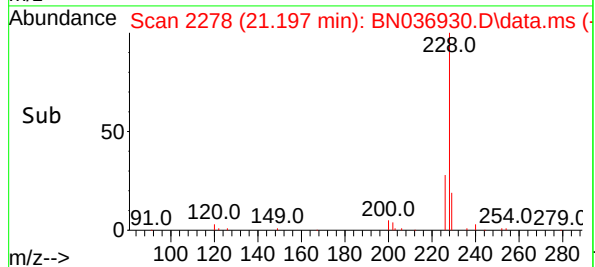
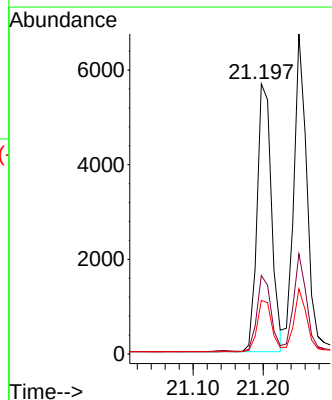
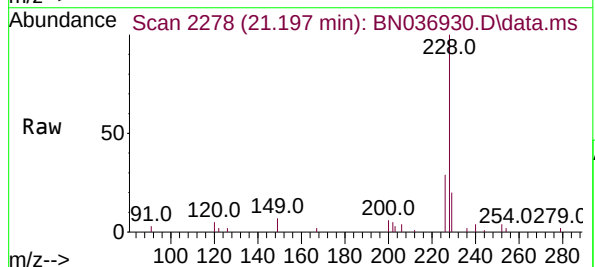


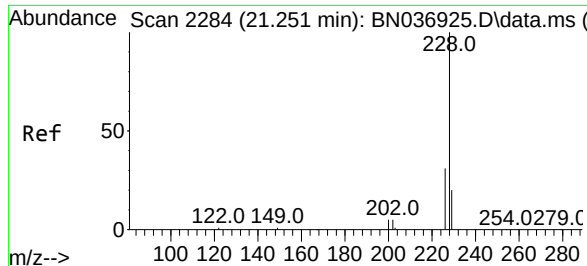
Tgt Ion:244 Resp: 5345
Ion Ratio Lower Upper
244 100
212 11.3 9.6 14.4
122 16.2 12.7 19.1



#32
Benzo(a)anthracene
Concen: 0.396 ng
RT: 21.197 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:228 Resp: 8105
Ion Ratio Lower Upper
228 100
226 29.1 22.2 33.4
229 19.8 16.4 24.6





#33

Chrysene

Concen: 0.405 ng

RT: 21.251 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825

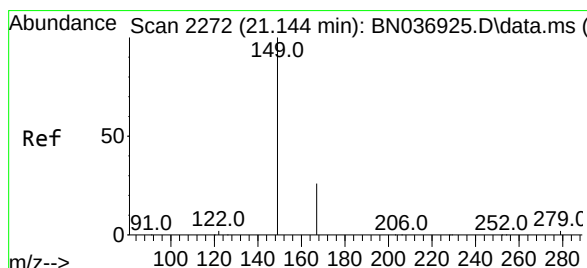
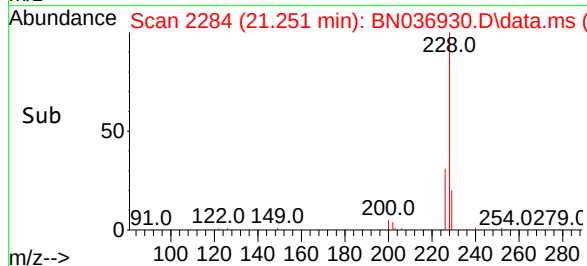
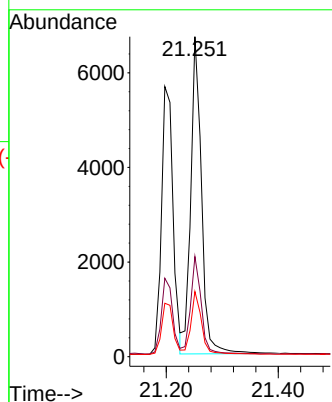
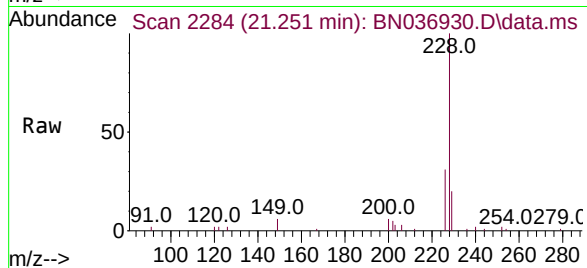
Tgt Ion:228 Resp: 8947

Ion Ratio Lower Upper

228 100

226 31.3 25.5 38.3

229 20.4 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.360 ng

RT: 21.144 min Scan# 2272

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

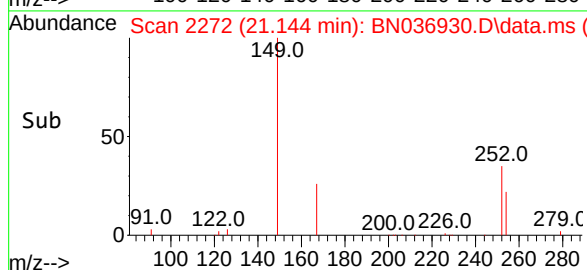
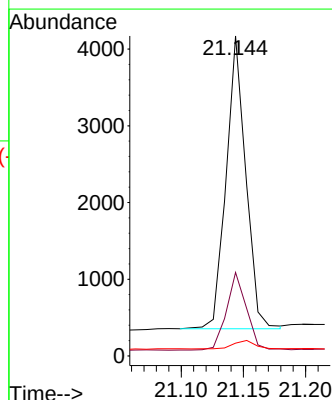
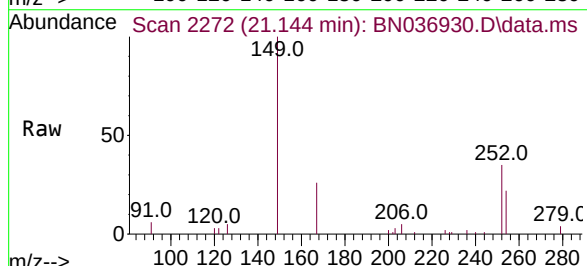
Tgt Ion:149 Resp: 4190

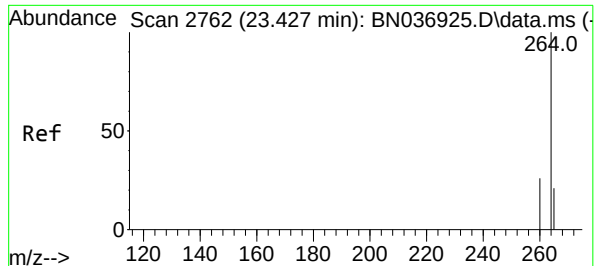
Ion Ratio Lower Upper

149 100

167 27.1 21.0 31.6

279 3.2 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.427 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825

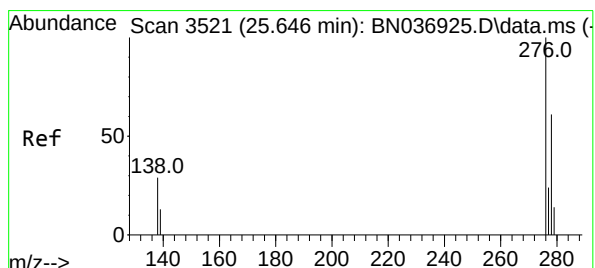
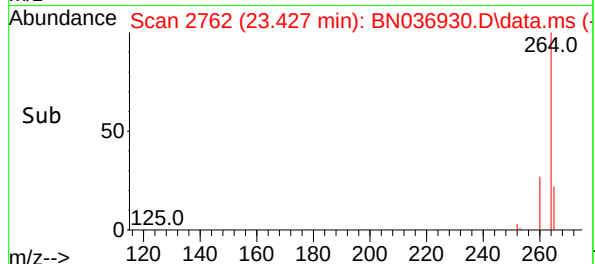
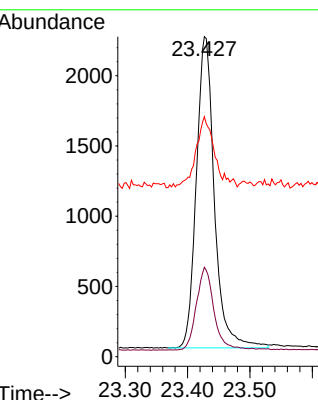
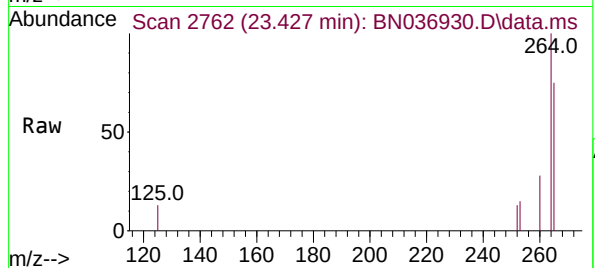
Tgt Ion:264 Resp: 4453

Ion Ratio Lower Upper

264 100

260 28.0 22.2 33.2

265 75.0 65.8 98.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.364 ng

RT: 25.640 min Scan# 3519

Delta R.T. -0.006 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

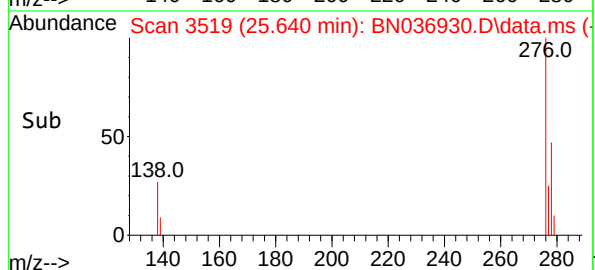
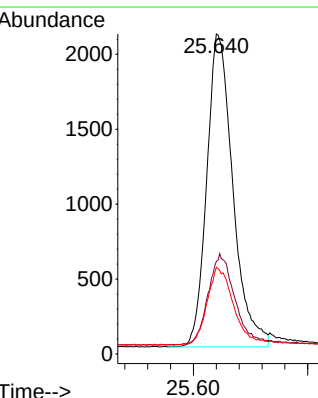
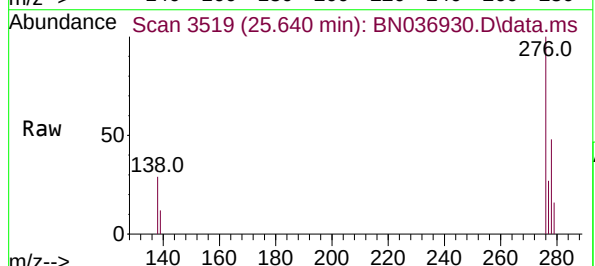
Tgt Ion:276 Resp: 6626

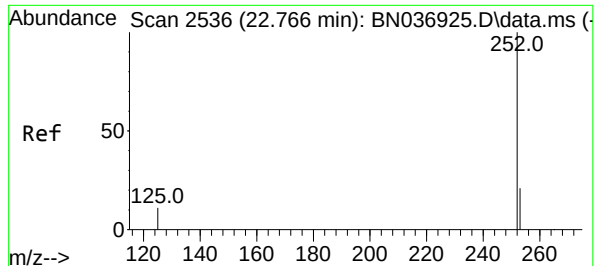
Ion Ratio Lower Upper

276 100

138 29.6 23.0 34.6

277 24.9 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.389 ng

RT: 22.763 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825

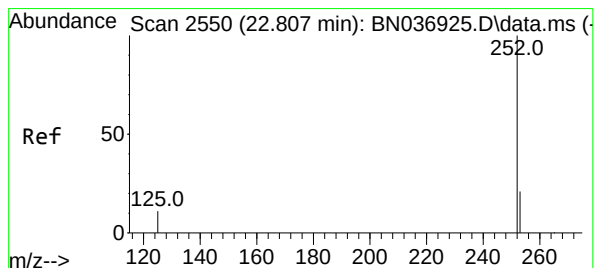
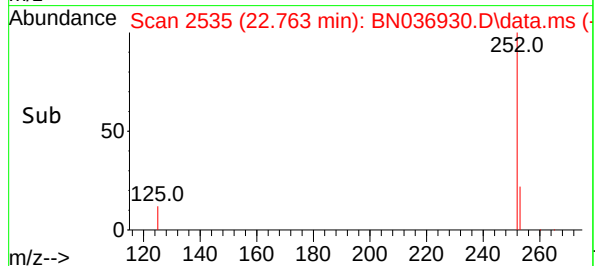
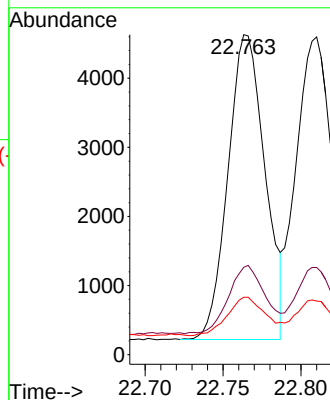
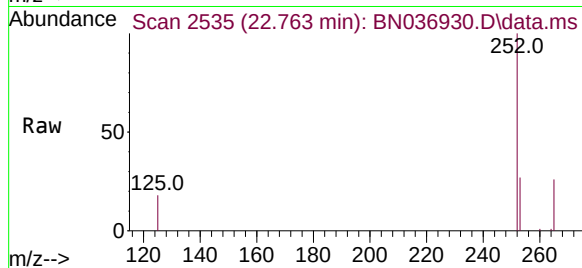
Tgt Ion:252 Resp: 7283

Ion Ratio Lower Upper

252 100

253 27.3 22.1 33.1

125 18.0 14.2 21.2



#38

Benzo(k)fluoranthene

Concen: 0.407 ng

RT: 22.810 min Scan# 2551

Delta R.T. 0.003 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

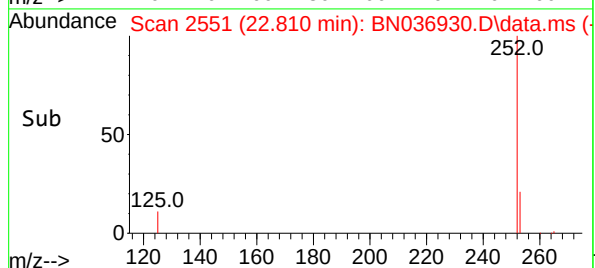
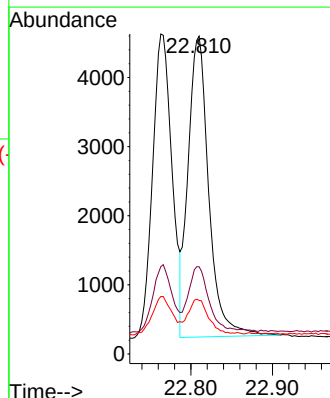
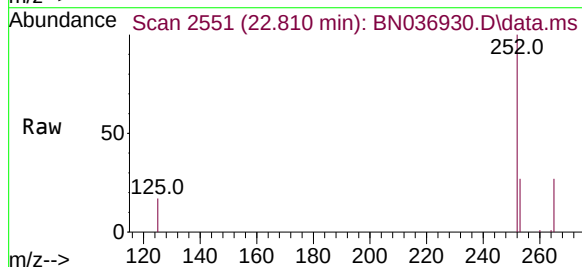
Tgt Ion:252 Resp: 7655

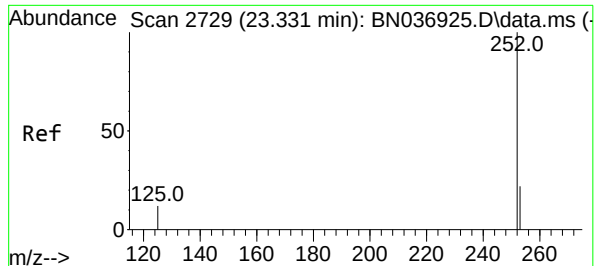
Ion Ratio Lower Upper

252 100

253 27.4 22.8 34.2

125 16.9 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.417 ng

RT: 23.330 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036930.D

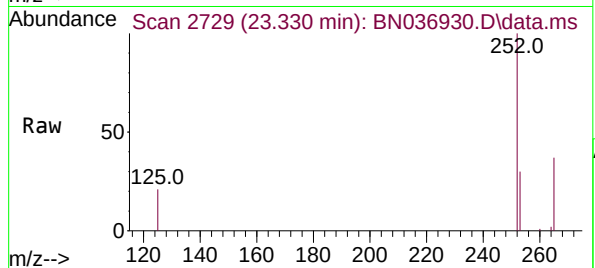
Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825



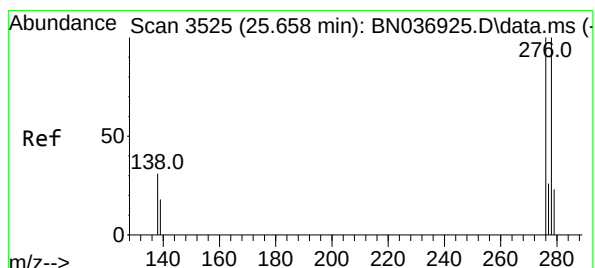
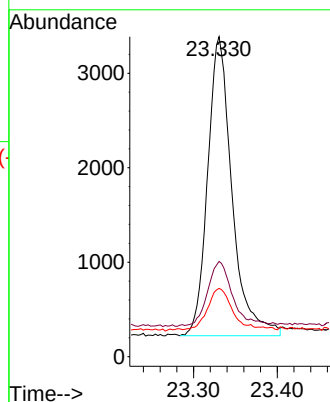
Tgt Ion:252 Resp: 6417

Ion	Ratio	Lower	Upper

252	100		

253	29.8	25.9	38.9

125	21.3	17.4	26.0



#40

Dibenzo(a,h)anthracene

Concen: 0.362 ng

RT: 25.663 min Scan# 3527

Delta R.T. 0.006 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

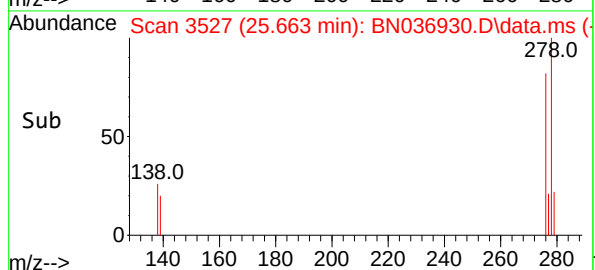
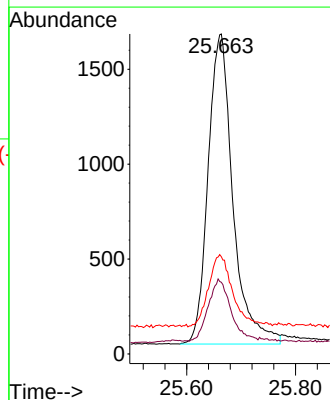
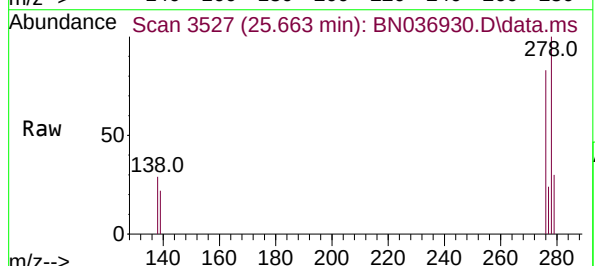
Tgt Ion:278 Resp: 5177

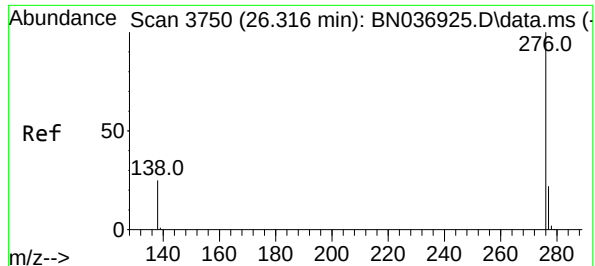
Ion	Ratio	Lower	Upper

278	100		

139	22.4	17.4	26.2

279	30.4	24.9	37.3





#41

Benzo(g,h,i)perylene

Concen: 0.359 ng

RT: 26.321 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN036930.D

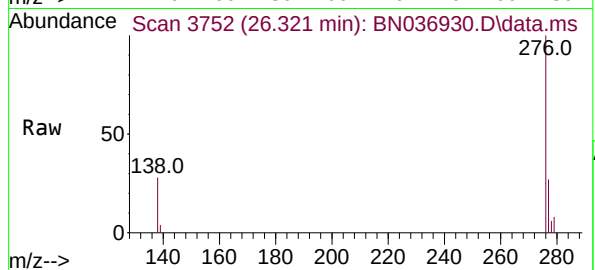
Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825



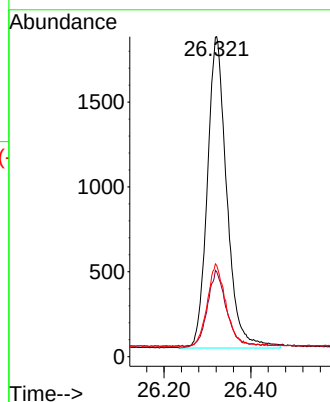
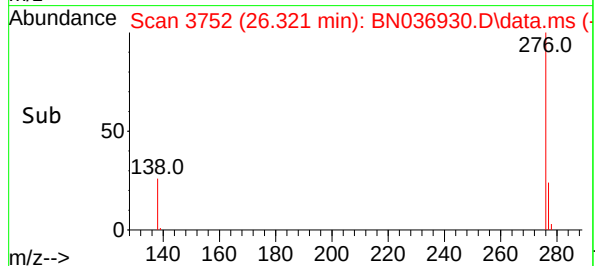
Tgt Ion:276 Resp: 5705

Ion Ratio Lower Upper

276 100

277 26.5 20.2 30.2

138 28.5 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036930.D
 Acq On : 28 Apr 2025 15:51
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN042825

Quant Time: Apr 28 18:00:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
2	1,4-Dioxane	0.498	0.543	-9.0	100	0.00
3	n-Nitrosodimethylamine	0.967	0.989	-2.3	99	0.00
4 S	2-Fluorophenol	1.023	0.913	10.8	83	0.00
5 S	Phenol-d6	1.259	1.095	13.0	83	0.00
6	bis(2-Chloroethyl)ether	1.167	1.229	-5.3	107	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	106	0.00
8 S	Nitrobenzene-d5	0.418	0.426	-1.9	110	0.00
9	Naphthalene	1.164	1.162	0.2	107	0.00
10	Hexachlorobutadiene	0.252	0.261	-3.6	109	0.00
11 SURR	2-Methylnaphthalene-d10	0.559	0.575	-2.9	113	0.00
12	2-Methylnaphthalene	0.753	0.690	8.4	102	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	118	0.00
14 S	2,4,6-Tribromophenol	0.178	0.146	18.0	97	0.00
15 S	2-Fluorobiphenyl	1.933	1.889	2.3	108	0.00
16	Acenaphthylene	1.955	2.010	-2.8	124	0.00
17	Acenaphthene	1.284	1.226	4.5	113	0.00
18	Fluorene	1.680	1.639	2.4	119	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	125	0.00
20	4,6-Dinitro-2-methylphenol	0.106	0.085	19.8	119	0.00
21	4-Bromophenyl-phenylether	0.267	0.251	6.0	120	0.00
22	Hexachlorobenzene	0.293	0.283	3.4	118	0.00
23	Atrazine	0.215	0.217	-0.9	136	0.00
24	Pentachlorophenol	0.157	0.124	21.0	107	0.00
25	Phenanthrene	1.320	1.286	2.6	124	0.00
26	Anthracene	1.194	1.172	1.8	128	0.00
27 SURR	Fluoranthene-d10	1.037	1.027	1.0	130	0.00
28	Fluoranthene	1.480	1.407	4.9	126	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	135	0.00
30	Pyrene	1.927	1.812	6.0	125	0.00
31 S	Terphenyl-d14	0.944	0.961	-1.8	137	0.00
32	Benzo(a)anthracene	1.473	1.457	1.1	138	0.00
33	Chrysene	1.589	1.609	-1.3	133	0.00
34	Bis(2-ethylhexyl)phthalate	0.838	0.753	10.1	122	0.00
35 I	Perylene-d12	1.000	1.000	0.0	123	0.00
36	Indeno(1,2,3-cd)pyrene	1.634	1.488	8.9	107	0.00
37	Benzo(b)fluoranthene	1.682	1.636	2.7	123	0.00
38	Benzo(k)fluoranthene	1.691	1.719	-1.7	128	0.00
39 C	Benzo(a)pyrene	1.383	1.441	-4.2	130	0.00
40	Dibenzo(a,h)anthracene	1.286	1.163	9.6	106	0.00
41	Benzo(g,h,i)perylene	1.427	1.281	10.2	104	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036930.D
 Acq On : 28 Apr 2025 15:51
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICBN042825

Quant Time: Apr 28 18:00:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	101	0.00
2	1,4-Dioxane	0.400	0.435	-8.7	100	0.00
3	n-Nitrosodimethylamine	0.400	0.409	-2.2	99	0.00
4 S	2-Fluorophenol	0.400	0.357	10.8	83	0.00
5 S	Phenol-d6	0.400	0.348	13.0	83	0.00
6	bis(2-Chloroethyl)ether	0.400	0.421	-5.2	107	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	106	0.00
8 S	Nitrobenzene-d5	0.400	0.408	-2.0	110	0.00
9	Naphthalene	0.400	0.399	0.3	107	0.00
10	Hexachlorobutadiene	0.400	0.414	-3.5	109	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.411	-2.7	113	0.00
12	2-Methylnaphthalene	0.400	0.367	8.3	102	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	118	0.00
14 S	2,4,6-Tribromophenol	0.400	0.327	18.3	97	0.00
15 S	2-Fluorobiphenyl	0.400	0.391	2.3	108	0.00
16	Acenaphthylene	0.400	0.411	-2.7	124	0.00
17	Acenaphthene	0.400	0.382	4.5	113	0.00
18	Fluorene	0.400	0.390	2.5	119	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	125	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.323	19.3	119	0.00
21	4-Bromophenyl-phenylether	0.400	0.376	6.0	120	0.00
22	Hexachlorobenzene	0.400	0.387	3.3	118	0.00
23	Atrazine	0.400	0.403	-0.8	136	0.00
24	Pentachlorophenol	0.400	0.315	21.3	107	0.00
25	Phenanthrene	0.400	0.390	2.5	124	0.00
26	Anthracene	0.400	0.393	1.8	128	0.00
27 SURR	Fluoranthene-d10	0.400	0.396	1.0	130	0.00
28	Fluoranthene	0.400	0.380	5.0	126	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	135	0.00
30	Pyrene	0.400	0.376	6.0	125	0.00
31 S	Terphenyl-d14	0.400	0.407	-1.7	137	0.00
32	Benzo(a)anthracene	0.400	0.396	1.0	138	0.00
33	Chrysene	0.400	0.405	-1.3	133	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.360	10.0	122	0.00
35 I	Perylene-d12	0.400	0.400	0.0	123	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.364	9.0	107	0.00
37	Benzo(b)fluoranthene	0.400	0.389	2.8	123	0.00
38	Benzo(k)fluoranthene	0.400	0.407	-1.7	128	0.00
39 C	Benzo(a)pyrene	0.400	0.417	-4.2	130	0.00
40	Dibenzo(a,h)anthracene	0.400	0.362	9.5	106	0.00
41	Benzo(g,h,i)perylene	0.400	0.359	10.3	104	0.00

(#) = Out of Range

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

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN051225.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Mon May 12 18:05:36 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN036982.D 0.2 =BN036983.D 0.4 =BN036984.D 0.8 =BN036985.D 1.6 =BN036986.D 3.2 =BN036987.D 5.0 =BN036988.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	0.528	0.496	0.543	0.511	0.529	0.490	0.464	0.509	5.33
3)	n-Nitrosodimet...	1.189	1.020	1.084	1.034	1.089	1.025	0.967	1.058	6.70
4) S	2-Fluorophenol	1.045	1.035	1.122	0.979	1.033	1.013	0.989	1.031	4.57
5) S	Phenol-d6	1.191	1.200	1.331	1.172	1.278	1.292	1.288	1.250	4.92
6)	bis(2-Chloroet...	1.136	1.132	1.152	1.132	1.227	1.178	1.160	1.160	2.94
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.390	0.386	0.419	0.411	0.454	0.444	0.448	0.422	6.62
9)	Naphthalene	1.158	1.135	1.157	1.119	1.216	1.171	1.177	1.162	2.69
10)	Hexachlorobuta...	0.256	0.258	0.253	0.241	0.259	0.241	0.238	0.249	3.64
11) SURR2	Methylnaphth...	0.535	0.544	0.542	0.540	0.598	0.581	0.593	0.562	4.89
12)	2-Methylnaphth...	0.719	0.714	0.732	0.722	0.809	0.786	0.797	0.754	5.47
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.184	0.176	0.185	0.169	0.192	0.187	0.191	0.183	4.48
15) S	2-Fluorobiphenyl	1.929	1.641	1.954	1.879	1.979	1.825	1.868	1.868	6.07
16)	Acenaphthylene	1.886	1.842	1.897	1.885	2.070	2.039	2.067	1.955	5.05
17)	Acenaphthene	1.295	1.224	1.271	1.237	1.359	1.295	1.305	1.284	3.52
18)	Fluorene	1.693	1.650	1.707	1.665	1.808	1.752	1.774	1.721	3.40
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.079	0.080	0.094	0.100	0.114	0.118	0.131	0.102	19.27
21)	4-Bromophenyl-...	0.243	0.252	0.253	0.257	0.272	0.273	0.268	0.260	4.40
22)	Hexachlorobenzene	0.279	0.278	0.279	0.270	0.287	0.279	0.273	0.278	1.93
23)	Atrazine	0.210	0.218	0.222	0.217	0.239	0.246	0.253	0.229	7.23
24)	Pentachlorophenol	0.146	0.134	0.140	0.146	0.161	0.173	0.179	0.154	11.10
25)	Phenanthrene	1.272	1.249	1.286	1.295	1.370	1.354	1.366	1.313	3.77
26)	Anthracene	1.113	1.098	1.145	1.161	1.273	1.293	1.323	1.201	7.72
27) SURR	Fluoranthene-d10	1.043	1.031	1.062	1.041	1.124	1.130	1.174	1.087	5.12
28)	Fluoranthene	1.426	1.437	1.502	1.491	1.635	1.644	1.695	1.547	7.03
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.878	1.816	1.782	1.804	1.912	1.798	1.719	1.815	3.49
31) S	Terphenyl-d14	0.948	0.908	0.896	0.894	0.943	0.894	0.855	0.905	3.54
32)	Benzo(a)anthra...	1.460	1.461	1.484	1.469	1.615	1.539	1.565	1.513	4.01
33)	Chrysene	1.593	1.569	1.612	1.553	1.666	1.600	1.593	1.598	2.23
34)	Bis(2-ethylhex...	1.011	0.960	0.908	0.817	0.919	0.907	1.000	0.932	7.10
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN051225.M

36)	Indeno(1,2,3-c...	1.420	1.500	1.566	1.542	1.662	1.635	1.738	1.580	6.76
37)	Benzo(b)fluora...	1.619	1.598	1.585	1.593	1.781	1.751	1.740	1.667	5.17
38)	Benzo(k)fluora...	1.552	1.559	1.628	1.597	1.799	1.739	1.723	1.657	5.85
39) C	Benzo(a)pyrene	1.338	1.270	1.355	1.314	1.475	1.459	1.480	1.385	6.18
40)	Dibenzo(a,h)an...	1.083	1.129	1.234	1.211	1.307	1.299	1.367	1.233	8.22
41)	Benzo(g,h,i)pe...	1.331	1.303	1.374	1.333	1.418	1.369	1.433	1.366	3.47

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051225\
 Data File : BN036982.D
 Acq On : 12 May 2025 13:43
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: May 12 17:51:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 12 17:44:09 2025
 Response via : Initial Calibration

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

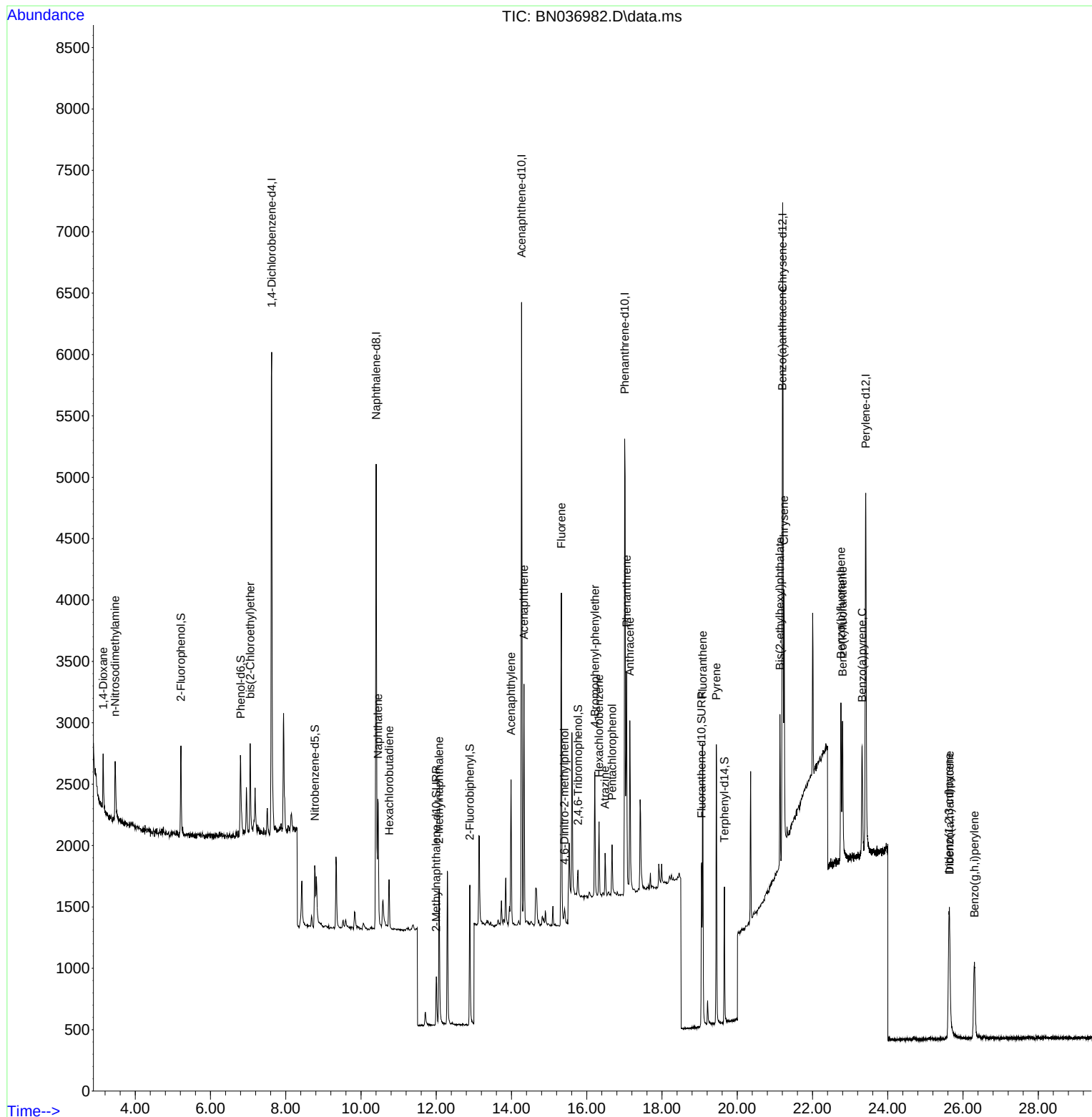
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.625	152	1948	0.40	ng	0.00
7) Naphthalene-d8	10.404	136	4898	0.40	ng	0.00
13) Acenaphthene-d10	14.267	164	2693	0.40	ng	0.00
19) Phenanthrene-d10	17.009	188	5741	0.40	ng	0.00
29) Chrysene-d12	21.206	240	4513	0.40	ng	0.00
35) Perylene-d12	23.415	264	3919	0.40	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	509	0.10	ng	0.00
5) Phenol-d6	6.802	99	580	0.10	ng	0.00
8) Nitrobenzene-d5	8.771	82	477	0.09	ng	0.00
11) 2-Methylnaphthalene-d10	12.001	152	655	0.10	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	124	0.10	ng	0.00
15) 2-Fluorobiphenyl	12.894	172	1299	0.10	ng	0.00
27) Fluoranthene-d10	19.054	212	1497	0.10	ng	0.00
31) Terphenyl-d14	19.658	244	1070	0.10	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.148	88	257m	0.10	ng	
3) n-Nitrosodimethylamine	3.466	42	579	0.11	ng	# 91
6) bis(2-Chloroethyl)ether	7.055	93	553	0.10	ng	97
9) Naphthalene	10.458	128	1418	0.10	ng	# 91
10) Hexachlorobutadiene	10.746	225	314	0.10	ng	# 99
12) 2-Methylnaphthalene	12.077	142	880	0.10	ng	93
16) Acenaphthylene	13.989	152	1270	0.10	ng	99
17) Acenaphthene	14.331	154	872	0.10	ng	98
18) Fluorene	15.325	166	1140	0.10	ng	98
20) 4,6-Dinitro-2-methylph...	15.411	198	113	0.08	ng	# 1
21) 4-Bromophenyl-phenylether	16.214	248	349	0.09	ng	94
22) Hexachlorobenzene	16.326	284	401	0.10	ng	99
23) Atrazine	16.487	200	301	0.09	ng	# 86
24) Pentachlorophenol	16.673	266	209	0.09	ng	97
25) Phenanthrene	17.058	178	1825	0.10	ng	99
26) Anthracene	17.145	178	1597	0.09	ng	99
28) Fluoranthene	19.082	202	2046	0.09	ng	98
30) Pyrene	19.444	202	2119	0.10	ng	99
32) Benzo(a)anthracene	21.198	228	1647	0.10	ng	95
33) Chrysene	21.242	228	1797	0.10	ng	96
34) Bis(2-ethylhexyl)phtha...	21.135	149	1141	0.11	ng	97
36) Indeno(1,2,3-cd)pyrene	25.626	276	1391	0.09	ng	97
37) Benzo(b)fluoranthene	22.755	252	1586	0.10	ng	# 66
38) Benzo(k)fluoranthene	22.798	252	1521	0.09	ng	# 65
39) Benzo(a)pyrene	23.319	252	1311	0.10	ng	# 59
40) Dibenzo(a,h)anthracene	25.643	278	1061	0.09	ng	# 67
41) Benzo(g,h,i)perylene	26.304	276	1304m	0.10	ng	

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

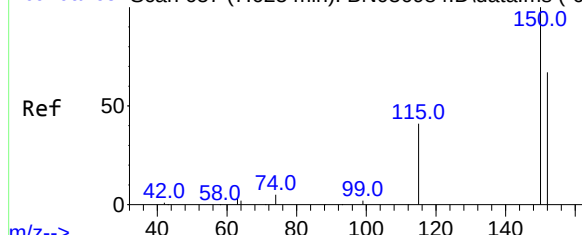
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051225\
Data File : BN036982.D
Acq On : 12 May 2025 13:43
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: May 12 17:51:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 12 17:44:09 2025
Response via : Initial Calibration



Abundance Scan 657 (7.625 min): BN036984.D\data.ms (-64)



#1

1,4-Dichlorobenzene-d4

Concen: 0.40 ng

RT: 7.625 min Scan# 6

Delta R.T. 0.000 min

Lab File: BN036982.D

Acq: 12 May 2025 13:43

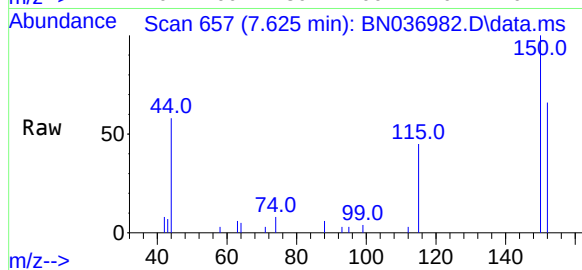
Instrument :

BNA_N

ClientSampleId :

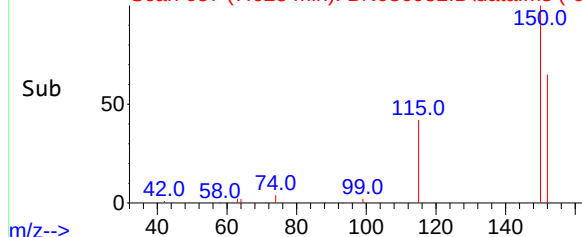
SSTDICC0.1

m/z-->



m/z-->

Abundance Scan 657 (7.625 min): BN036982.D\data.ms (-62)



m/z-->

Tgt Ion:152 Resp: 1948

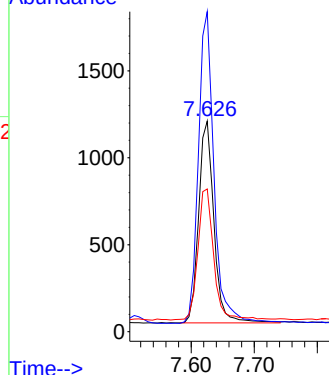
Ion Ratio Lower Upper

152 100

150 151.9 118.2 177.4

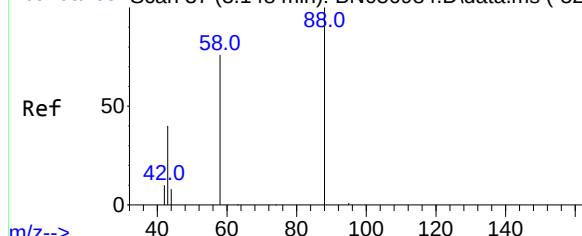
115 67.8 52.5 78.7

Abundance



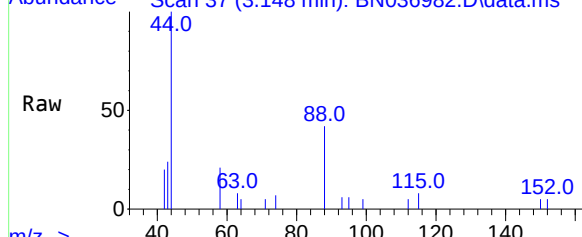
Time-->

Abundance Scan 37 (3.148 min): BN036984.D\data.ms (-32)



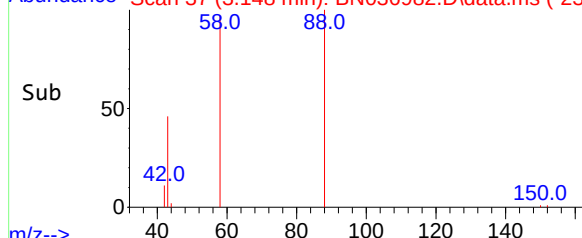
m/z-->

Abundance Scan 37 (3.148 min): BN036982.D\data.ms



m/z-->

Abundance Scan 37 (3.148 min): BN036982.D\data.ms (-23)



m/z-->

#2

1,4-Dioxane

Concen: 0.10 ng m

RT: 3.148 min Scan# 37

Delta R.T. 0.000 min

Lab File: BN036982.D

Acq: 12 May 2025 13:43

Tgt Ion: 88 Resp: 257

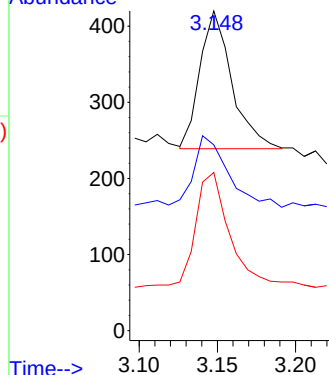
Ion Ratio Lower Upper

88 100

43 58.8 43.3 64.9

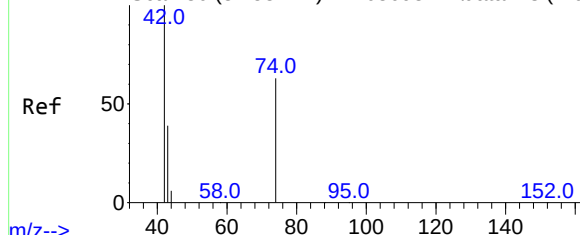
58 91.8 70.7 106.1

Abundance



Time-->

Abundance Scan 80 (3.458 min): BN036984.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 0.11 ng

RT: 3.466 min Scan# 81

Delta R.T. 0.007 min

Lab File: BN036982.D

Acq: 12 May 2025 13:43

Instrument :

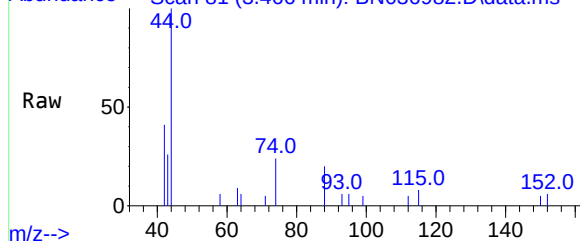
BNA_N

ClientSampleId :

SSTDICC0.1

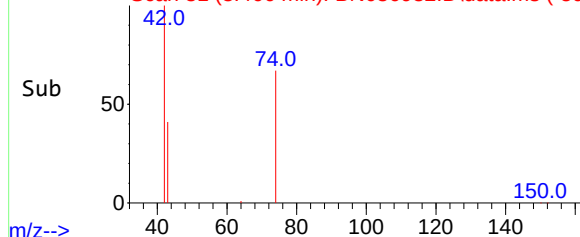
m/z-->

Abundance Scan 81 (3.466 min): BN036982.D\data.ms



m/z-->

Abundance Scan 81 (3.466 min): BN036982.D\data.ms (-59)



m/z-->

Tgt Ion: 42 Resp: 579

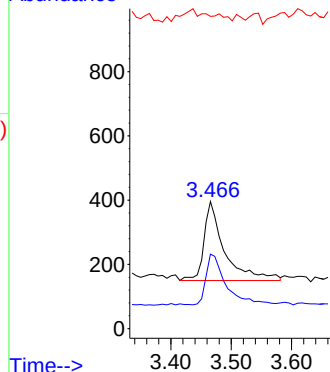
Ion Ratio Lower Upper

42 100

74 62.3 55.2 82.8

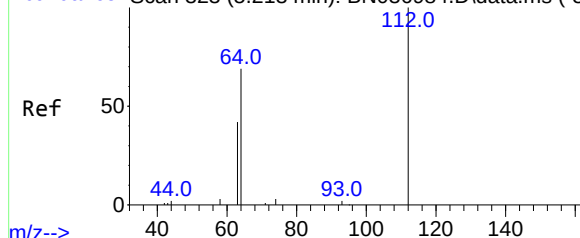
44 0.0 4.7 7.1#

Abundance



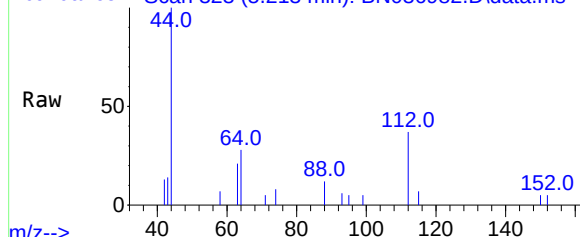
Time-->

Abundance Scan 323 (5.213 min): BN036984.D\data.ms (-31)



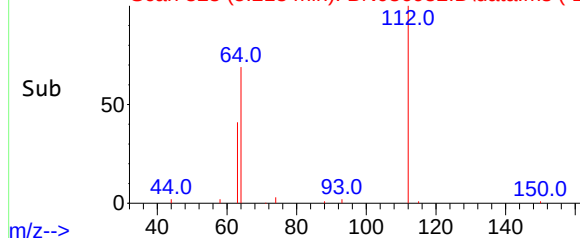
m/z-->

Abundance Scan 323 (5.213 min): BN036982.D\data.ms



m/z-->

Abundance Scan 323 (5.213 min): BN036982.D\data.ms (-29)



m/z-->

#4

2-Fluorophenol

Concen: 0.10 ng

RT: 5.213 min Scan# 323

Delta R.T. 0.000 min

Lab File: BN036982.D

Acq: 12 May 2025 13:43

Tgt Ion: 112 Resp: 509

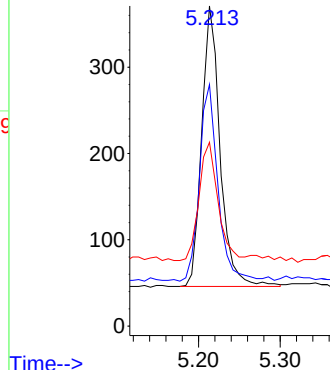
Ion Ratio Lower Upper

112 100

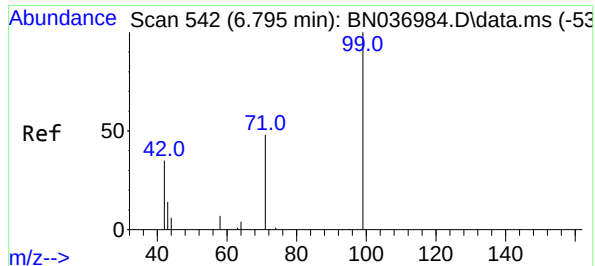
64 69.4 56.2 84.2

63 43.4 34.3 51.5

Abundance



Time-->



#5

Phenol-d6

Concen: 0.10 ng

RT: 6.802 min Scan# 54

Delta R.T. 0.007 min

Lab File: BN036982.D

Acq: 12 May 2025 13:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

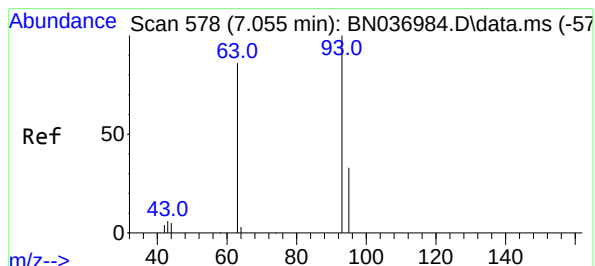
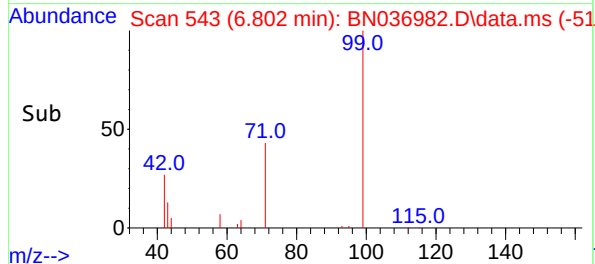
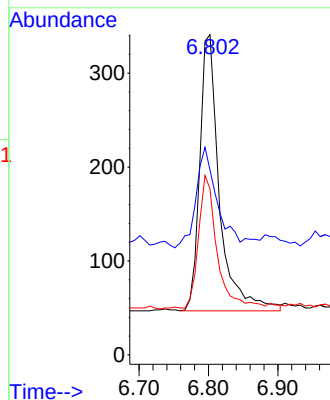
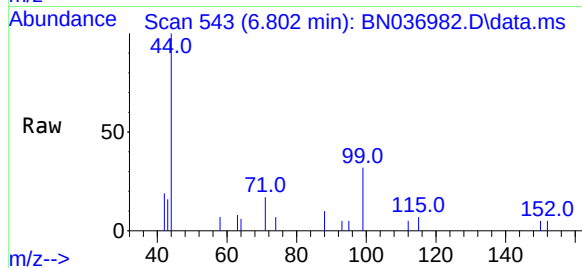
Tgt Ion: 99 Resp: 580

Ion Ratio Lower Upper

99 100

42 39.8 29.0 43.6

71 46.2 36.2 54.2



#6

bis(2-Chloroethyl)ether

Concen: 0.10 ng

RT: 7.055 min Scan# 578

Delta R.T. 0.000 min

Lab File: BN036982.D

Acq: 12 May 2025 13:43

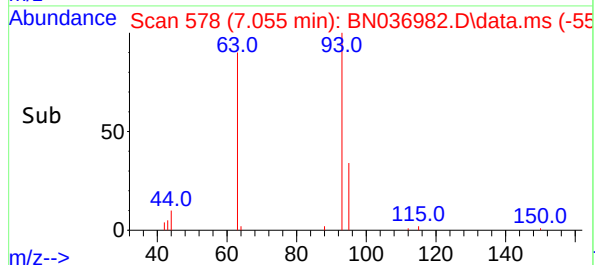
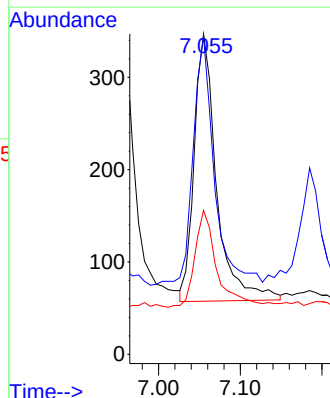
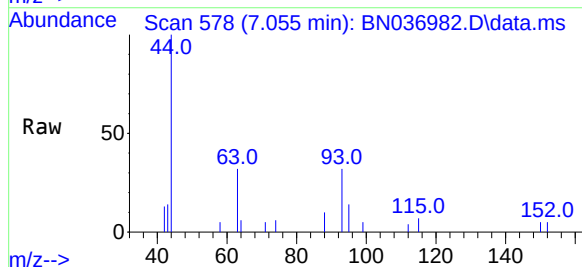
Tgt Ion: 93 Resp: 553

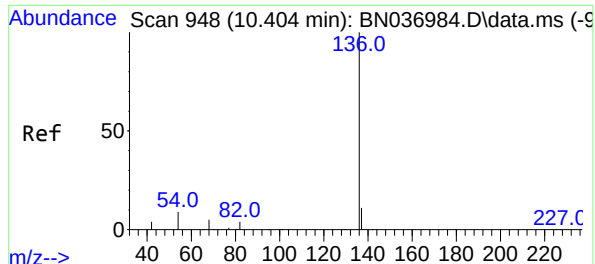
Ion Ratio Lower Upper

93 100

63 87.7 69.6 104.4

95 36.5 25.1 37.7

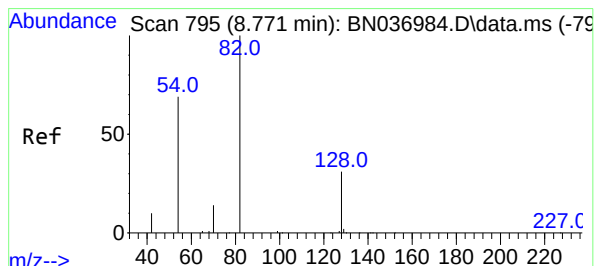
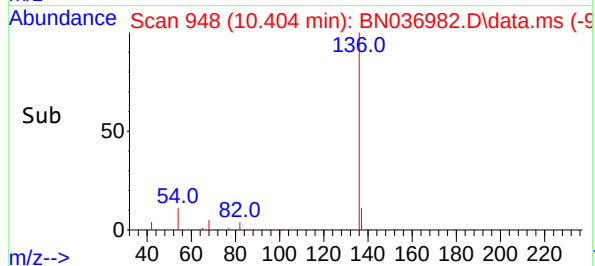
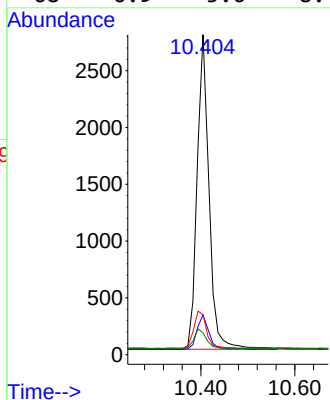
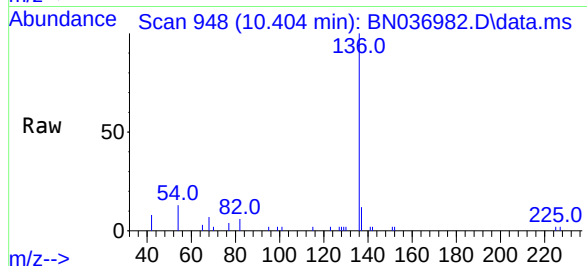




#7
Naphthalene-d8
Concen: 0.40 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN036982.D
Acq: 12 May 2025 13:43

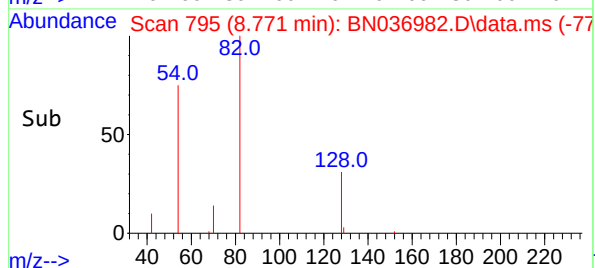
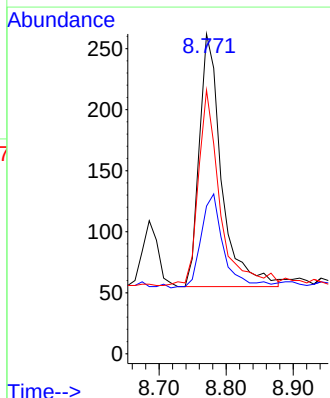
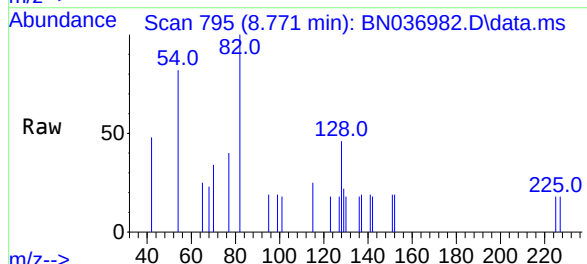
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

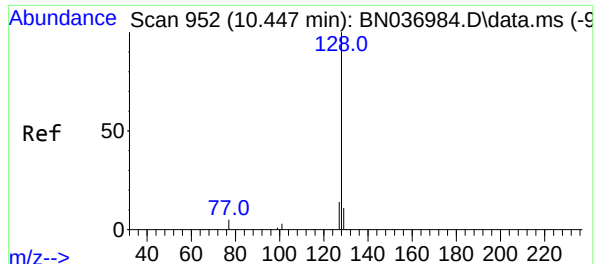
Tgt Ion:	136	Resp:	4898
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.3	15.5
54	12.5	9.2	13.8
68	6.9	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.09 ng
RT: 8.771 min Scan# 795
Delta R.T. 0.000 min
Lab File: BN036982.D
Acq: 12 May 2025 13:43

Tgt Ion:	82	Resp:	477
Ion	Ratio	Lower	Upper
82	100		
128	46.2	28.1	42.1#
54	82.4	56.4	84.6

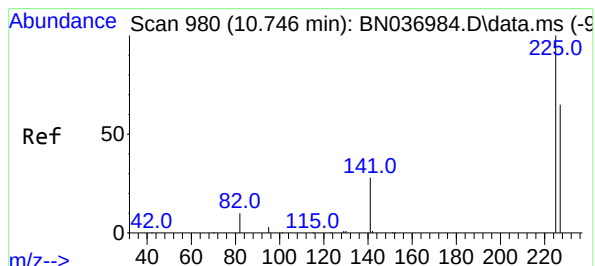
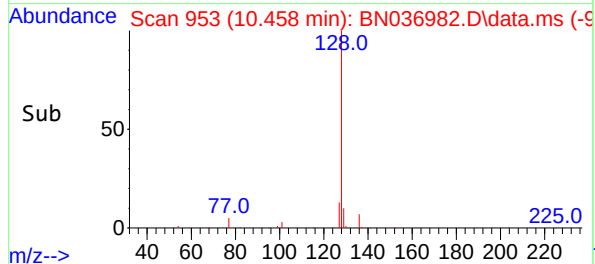
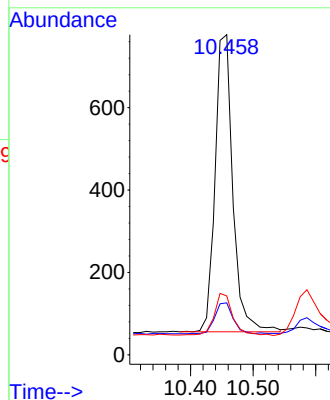
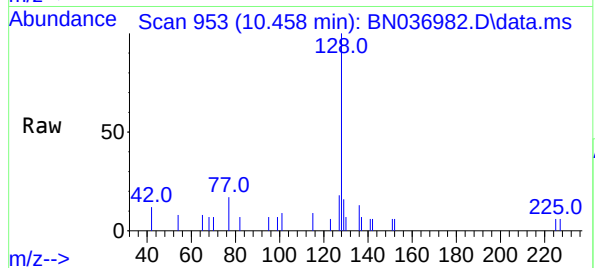




#9
Naphthalene
Concen: 0.10 ng
RT: 10.458 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN036982.D
Acq: 12 May 2025 13:43

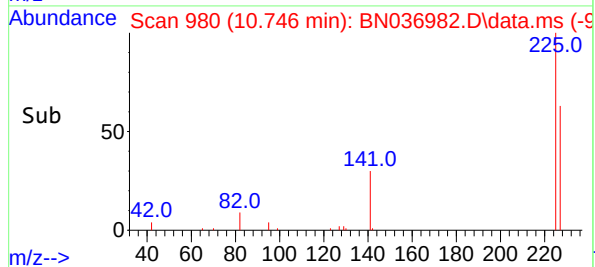
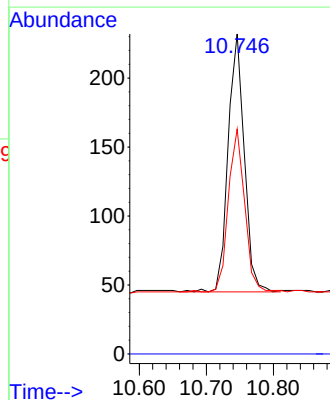
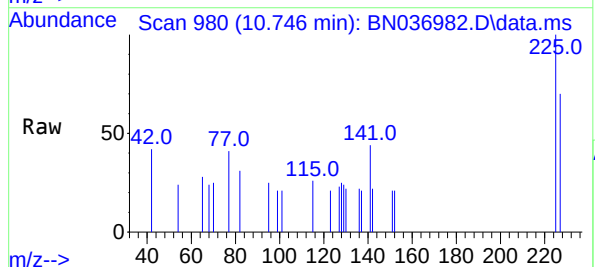
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

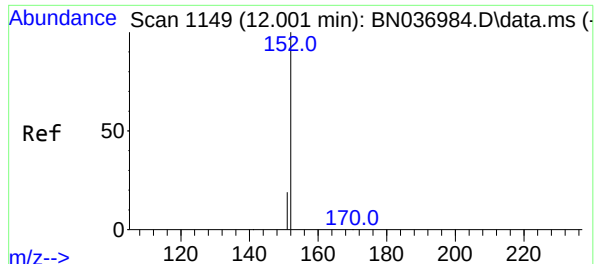
Tgt Ion:128 Resp: 1418
Ion Ratio Lower Upper
128 100
129 16.2 10.0 15.0#
127 18.4 12.1 18.1#



#10
Hexachlorobutadiene
Concen: 0.10 ng
RT: 10.746 min Scan# 980
Delta R.T. 0.000 min
Lab File: BN036982.D
Acq: 12 May 2025 13:43

Tgt Ion:225 Resp: 314
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 51.2 76.8

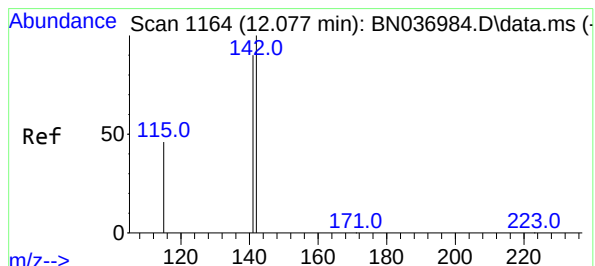
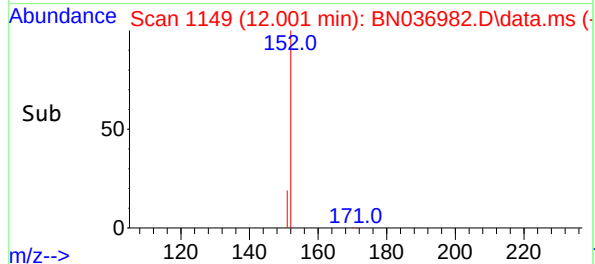
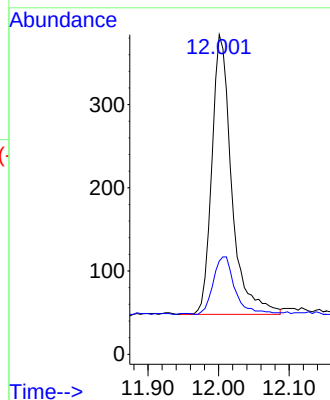
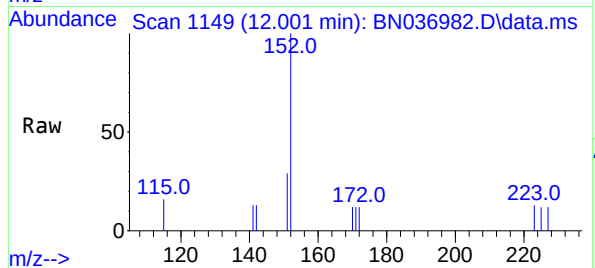




#11
2-Methylnaphthalene-d10
Concen: 0.10 ng
RT: 12.001 min Scan# 1149
Delta R.T. 0.000 min
Lab File: BN036982.D
Acq: 12 May 2025 13:43

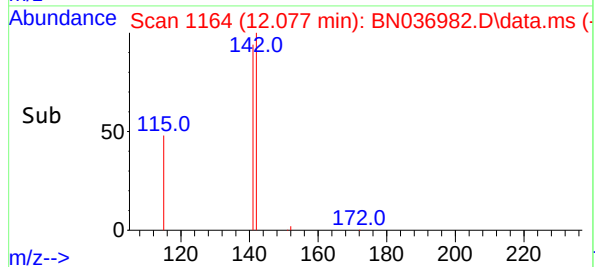
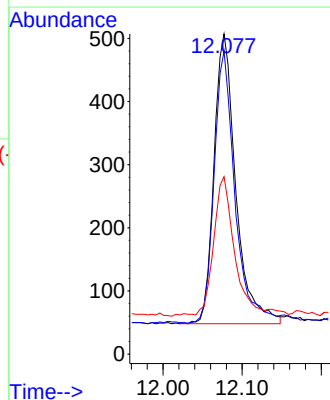
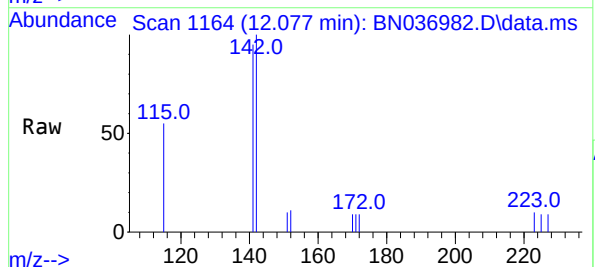
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

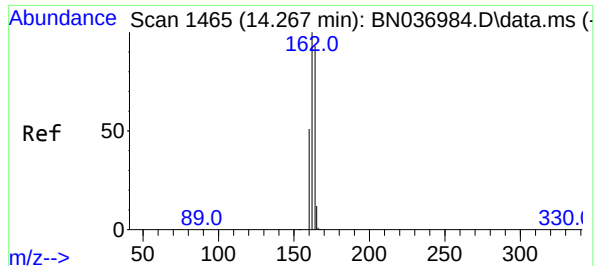
Tgt Ion:152 Resp: 655
Ion Ratio Lower Upper
152 100
151 22.6 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.10 ng
RT: 12.077 min Scan# 1164
Delta R.T. 0.000 min
Lab File: BN036982.D
Acq: 12 May 2025 13:43

Tgt Ion:142 Resp: 880
Ion Ratio Lower Upper
142 100
141 94.7 71.8 107.8
115 55.4 38.6 58.0

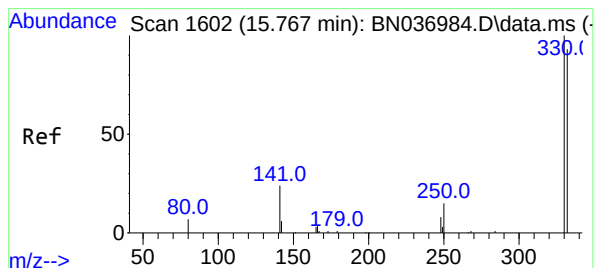
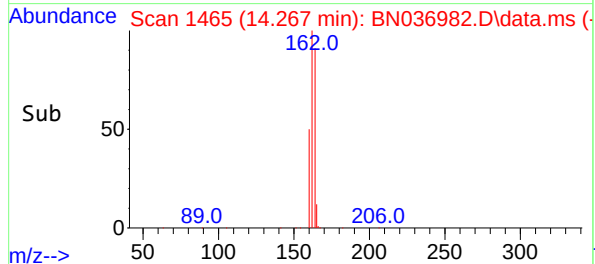
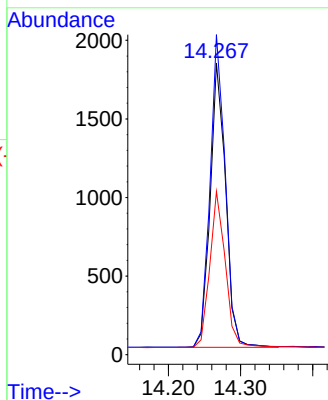
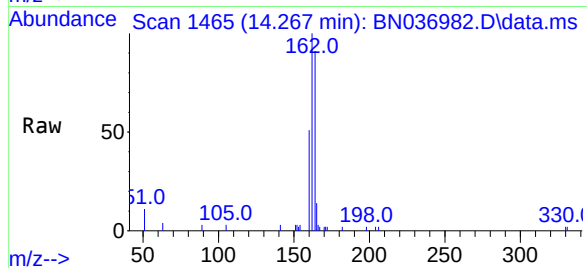




#13
Acenaphthene-d10
Concen: 0.40 ng
RT: 14.267 min Scan# 1465
Delta R.T. 0.000 min
Lab File: BN036982.D
Acq: 12 May 2025 13:43

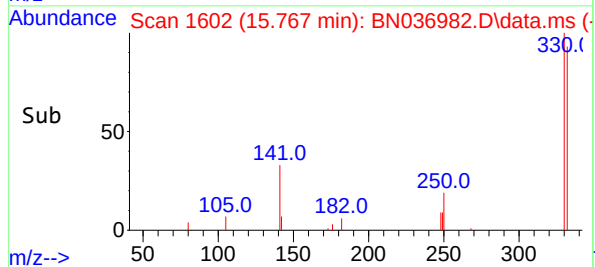
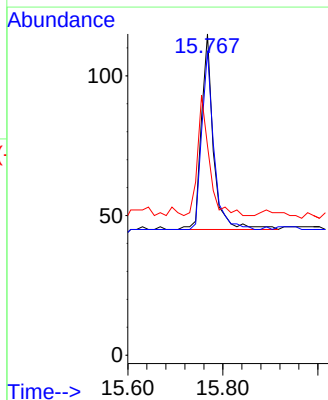
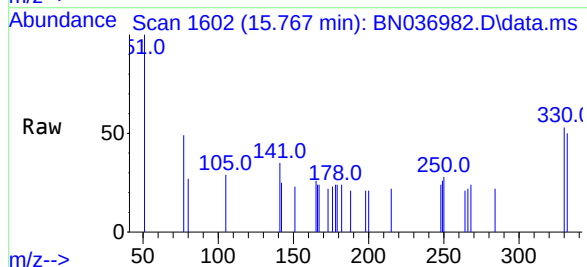
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

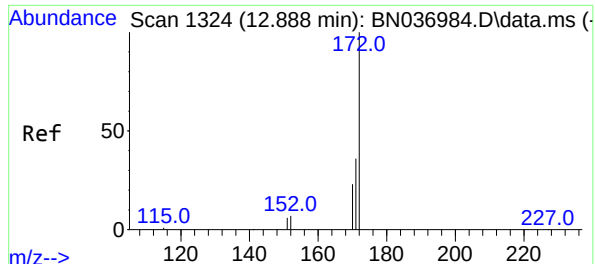
Tgt Ion:164 Resp: 2693
Ion Ratio Lower Upper
164 100
162 109.7 86.1 129.1
160 55.9 44.6 67.0



#14
2,4,6-Tribromophenol
Concen: 0.10 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN036982.D
Acq: 12 May 2025 13:43

Tgt Ion:330 Resp: 124
Ion Ratio Lower Upper
330 100
332 91.1 75.6 113.4
141 58.9 47.4 71.2

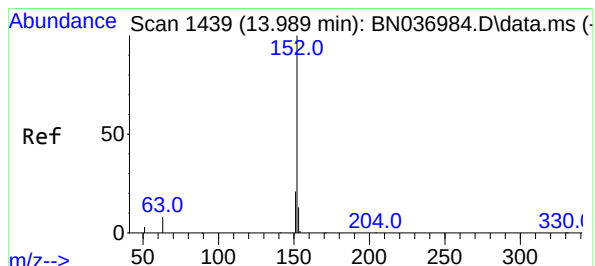
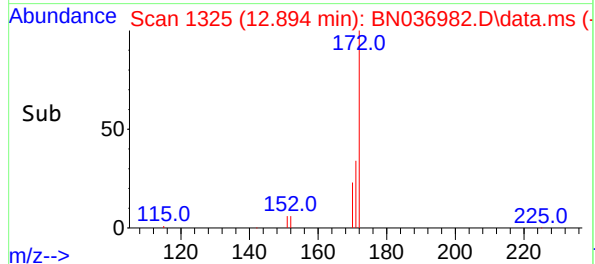
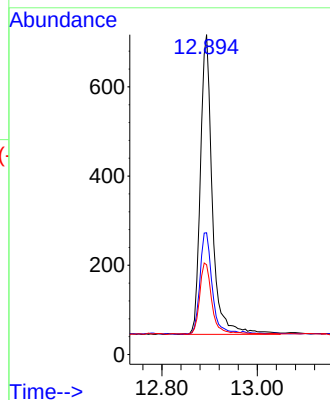
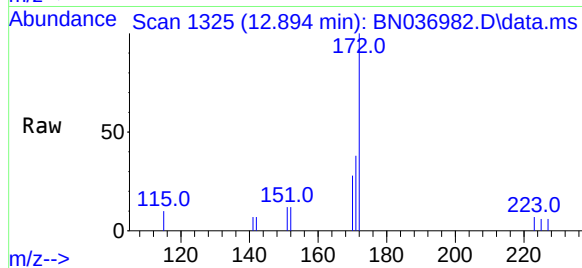




#15
2-Fluorobiphenyl
Concen: 0.10 ng
RT: 12.894 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN036982.D
Acq: 12 May 2025 13:43

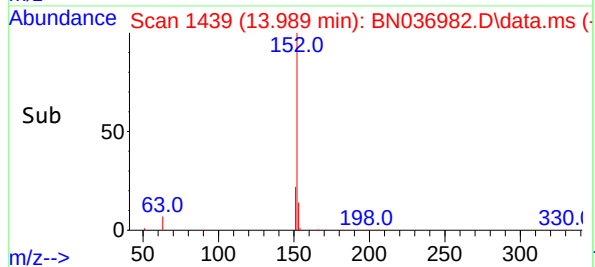
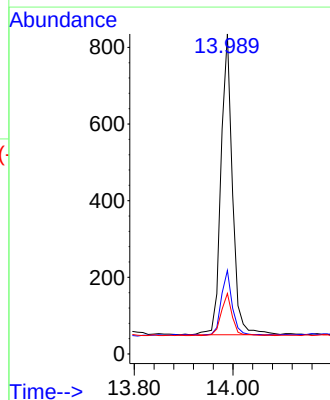
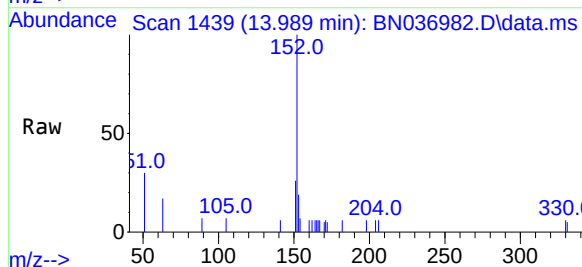
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

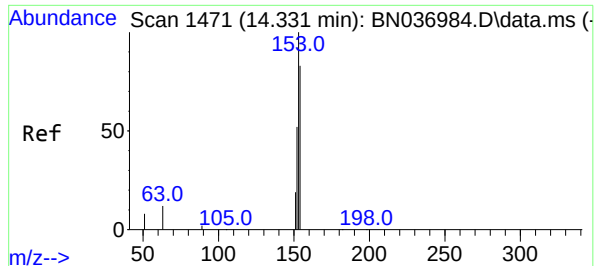
Tgt Ion:172 Resp: 1299
Ion Ratio Lower Upper
172 100
171 38.1 29.4 44.2
170 28.0 19.4 29.0



#16
Acenaphthylene
Concen: 0.10 ng
RT: 13.989 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN036982.D
Acq: 12 May 2025 13:43

Tgt Ion:152 Resp: 1270
Ion Ratio Lower Upper
152 100
151 21.2 16.2 24.4
153 13.5 10.9 16.3





#17

Acenaphthene

Concen: 0.10 ng

RT: 14.331 min Scan# 1471

Delta R.T. 0.000 min

Lab File: BN036982.D

Acq: 12 May 2025 13:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

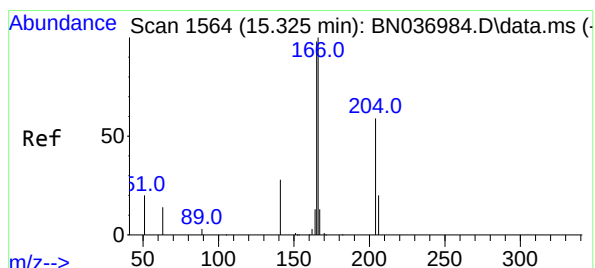
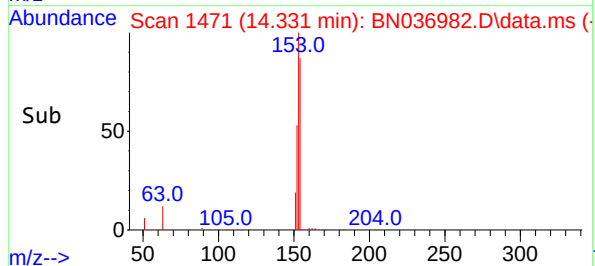
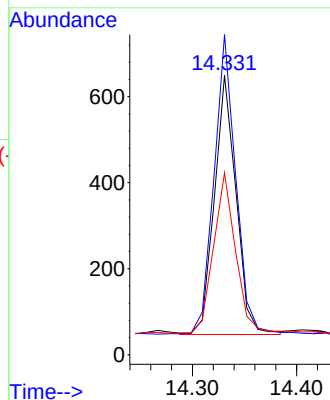
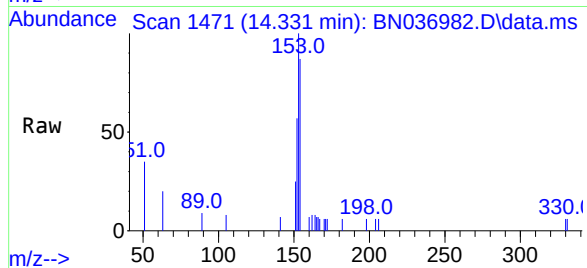
Tgt Ion:154 Resp: 872

Ion Ratio Lower Upper

154 100

153 115.9 94.6 142.0

152 64.2 49.4 74.2



#18

Fluorene

Concen: 0.10 ng

RT: 15.325 min Scan# 1564

Delta R.T. 0.000 min

Lab File: BN036982.D

Acq: 12 May 2025 13:43

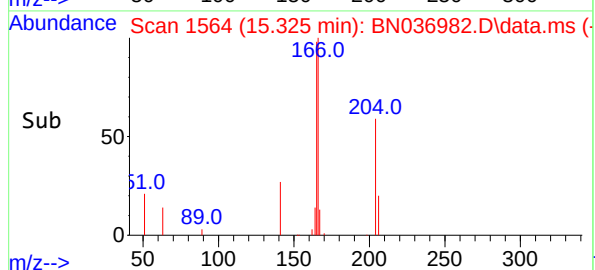
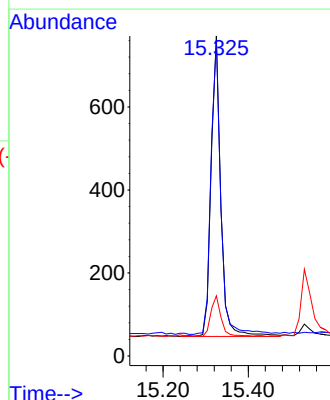
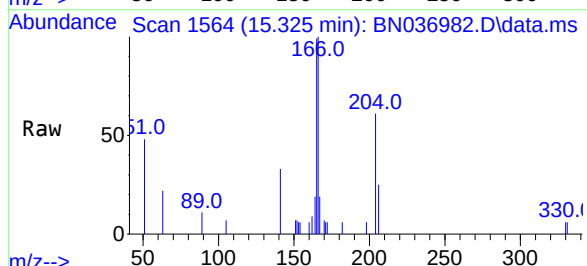
Tgt Ion:166 Resp: 1140

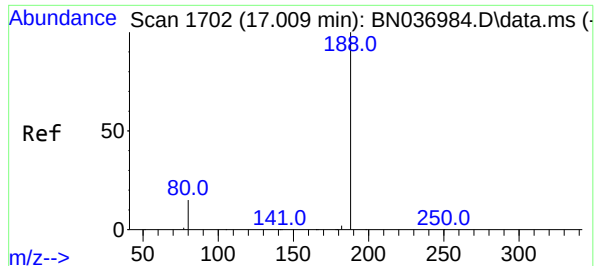
Ion Ratio Lower Upper

166 100

165 98.8 81.0 121.4

167 14.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.40 ng

RT: 17.009 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN036982.D

Acq: 12 May 2025 13:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

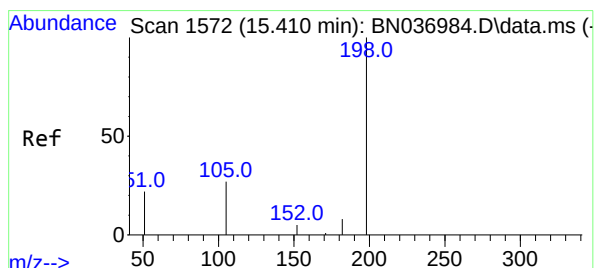
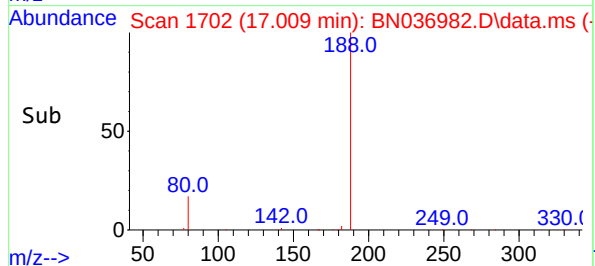
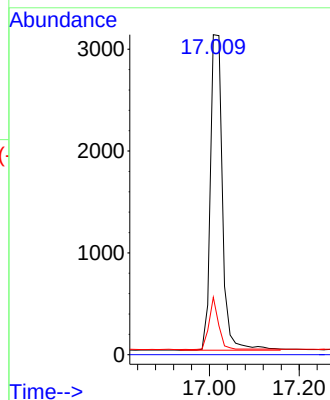
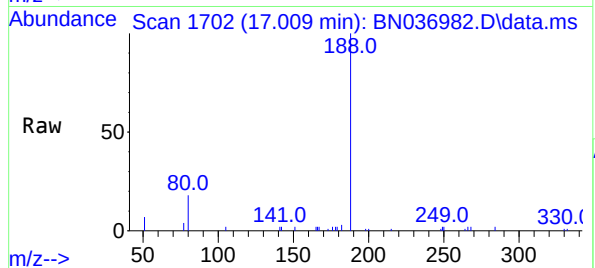
Tgt Ion:188 Resp: 5741

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 18.0 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.08 ng

RT: 15.411 min Scan# 1572

Delta R.T. 0.000 min

Lab File: BN036982.D

Acq: 12 May 2025 13:43

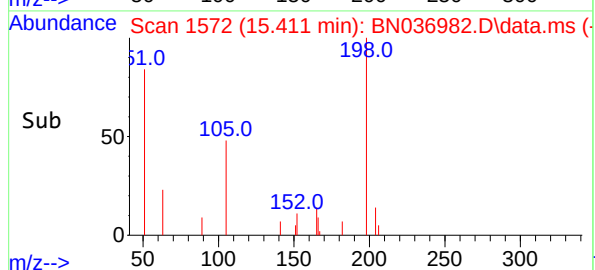
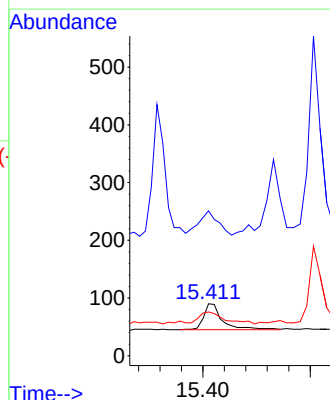
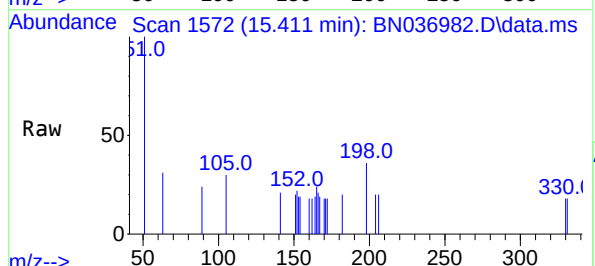
Tgt Ion:198 Resp: 113

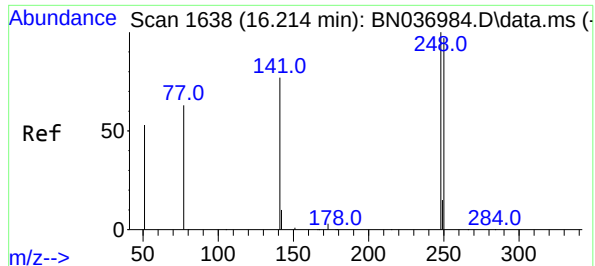
Ion Ratio Lower Upper

198 100

51 278.9 79.7 119.5#

105 84.4 36.0 54.0#





#21

4-Bromophenyl-phenylether

Concen: 0.09 ng

RT: 16.214 min Scan# 1638

Delta R.T. 0.000 min

Lab File: BN036982.D

Acq: 12 May 2025 13:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

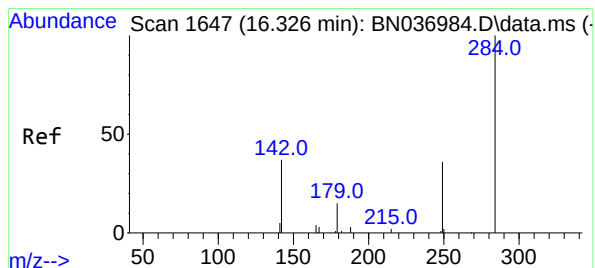
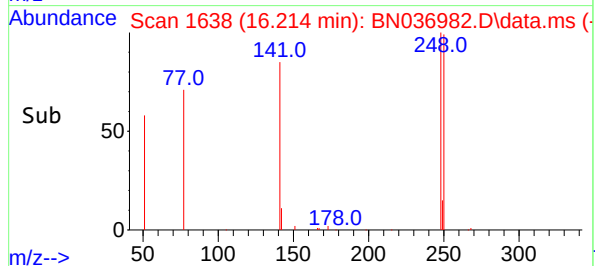
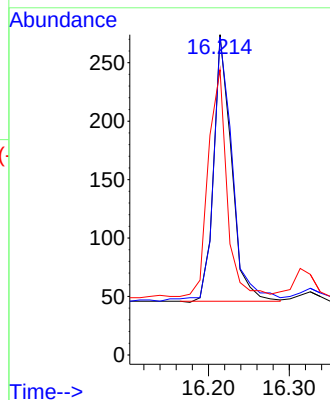
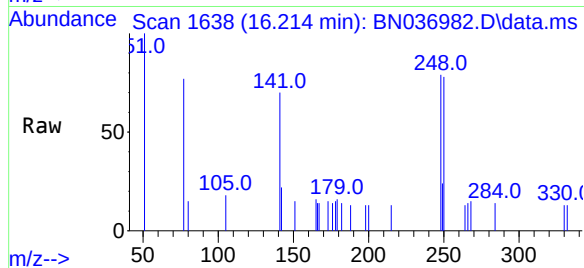
Tgt Ion:248 Resp: 349

Ion Ratio Lower Upper

248 100

250 99.3 77.8 116.8

141 89.1 63.1 94.7



#22

Hexachlorobenzene

Concen: 0.10 ng

RT: 16.326 min Scan# 1647

Delta R.T. 0.000 min

Lab File: BN036982.D

Acq: 12 May 2025 13:43

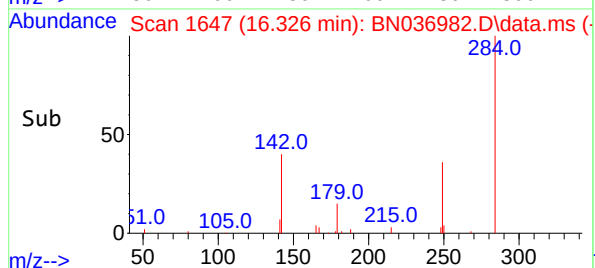
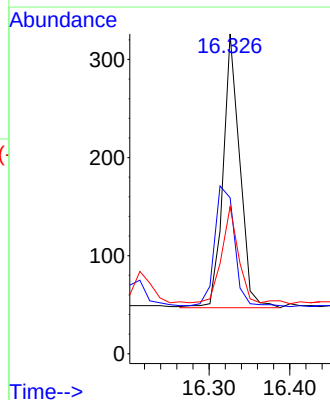
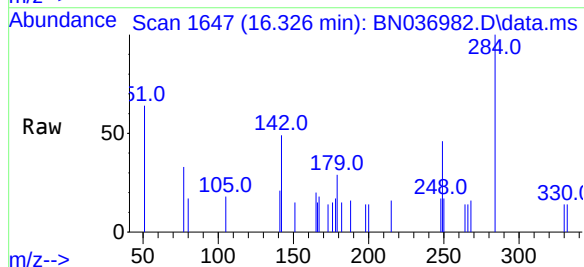
Tgt Ion:284 Resp: 401

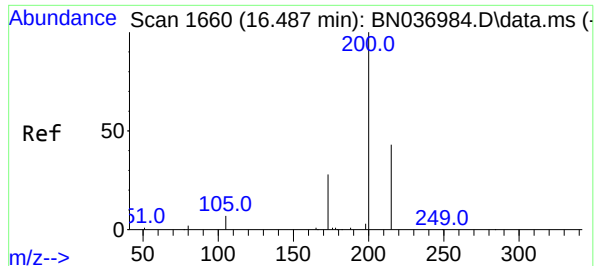
Ion Ratio Lower Upper

284 100

142 52.9 41.4 62.2

249 37.2 29.1 43.7

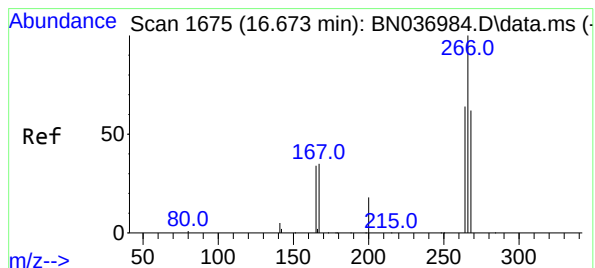
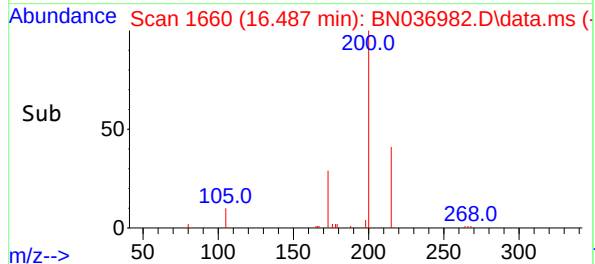
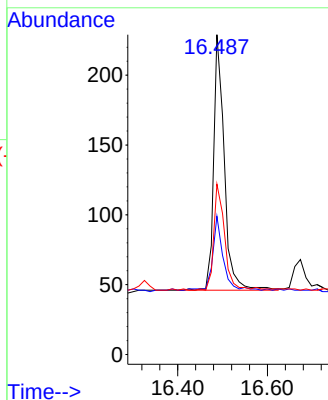
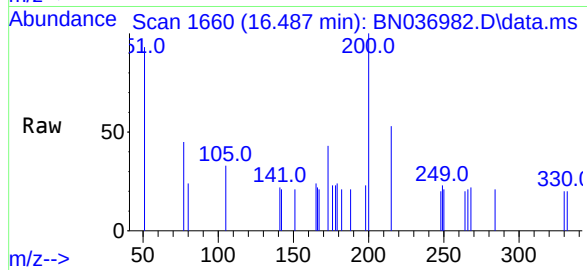




#23
Atrazine
Concen: 0.09 ng
RT: 16.487 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN036982.D
Acq: 12 May 2025 13:43

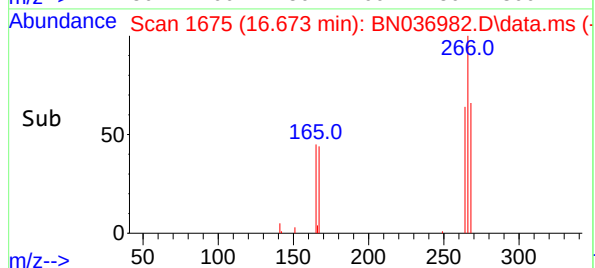
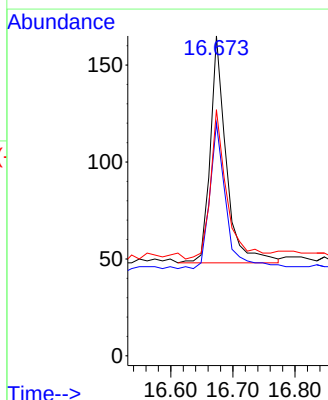
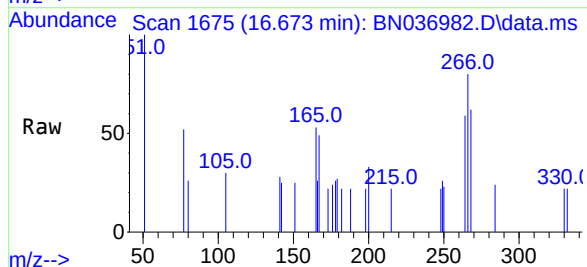
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

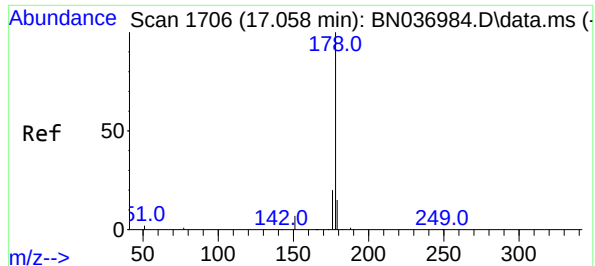
Tgt Ion:200 Resp: 301
Ion Ratio Lower Upper
200 100
173 43.2 25.8 38.6#
215 53.3 37.4 56.0



#24
Pentachlorophenol
Concen: 0.09 ng
RT: 16.673 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN036982.D
Acq: 12 May 2025 13:43

Tgt Ion:266 Resp: 209
Ion Ratio Lower Upper
266 100
264 66.5 52.8 79.2
268 67.5 50.0 75.0

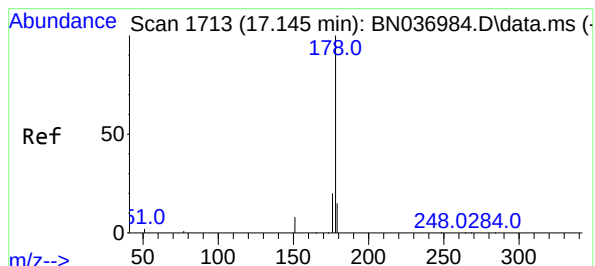
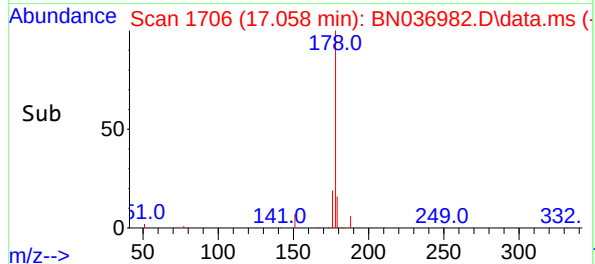
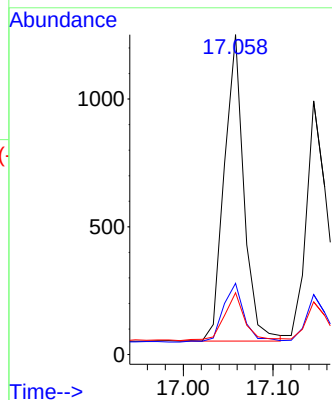
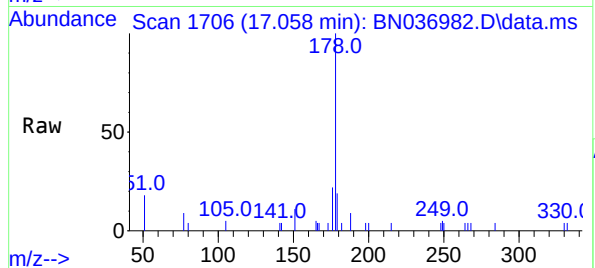




#25
Phenanthrene
Concen: 0.10 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN036982.D
Acq: 12 May 2025 13:43

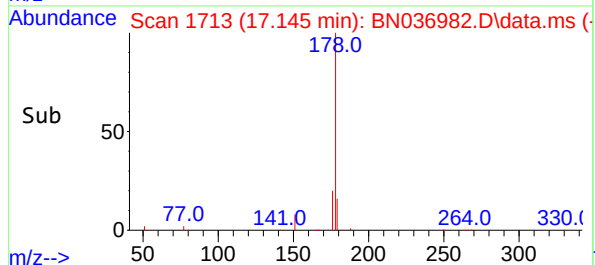
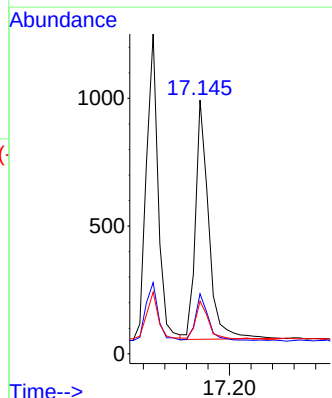
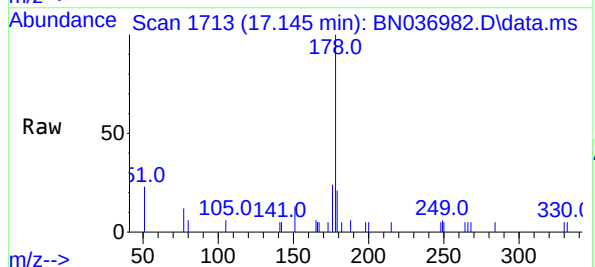
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

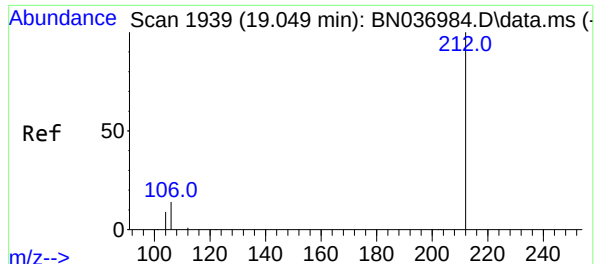
Tgt Ion:178 Resp: 1825
Ion Ratio Lower Upper
178 100
176 20.8 16.0 24.0
179 15.9 12.3 18.5



#26
Anthracene
Concen: 0.09 ng
RT: 17.145 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN036982.D
Acq: 12 May 2025 13:43

Tgt Ion:178 Resp: 1597
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 14.8 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.10 ng

RT: 19.054 min Scan# 1940

Delta R.T. 0.005 min

Lab File: BN036982.D

Acq: 12 May 2025 13:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

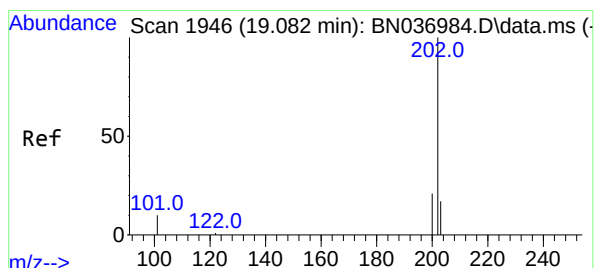
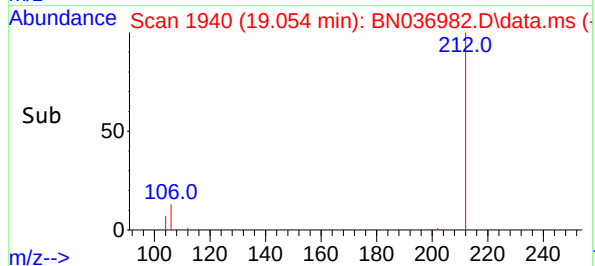
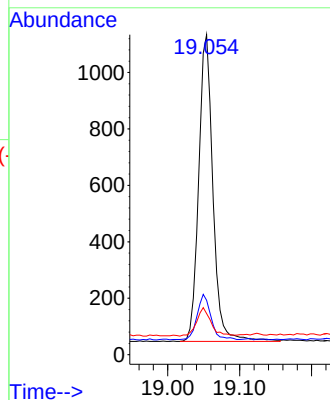
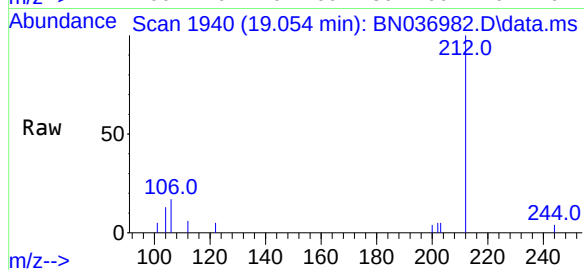
Tgt Ion:212 Resp: 1497

Ion Ratio Lower Upper

212 100

106 14.0 11.3 16.9

104 9.3 7.0 10.4



#28

Fluoranthene

Concen: 0.09 ng

RT: 19.082 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN036982.D

Acq: 12 May 2025 13:43

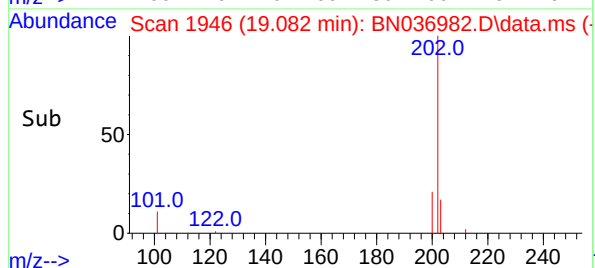
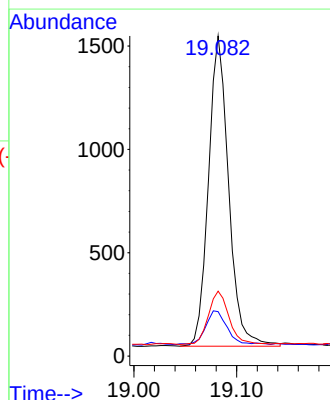
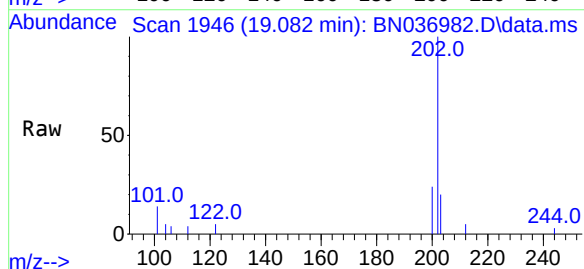
Tgt Ion:202 Resp: 2046

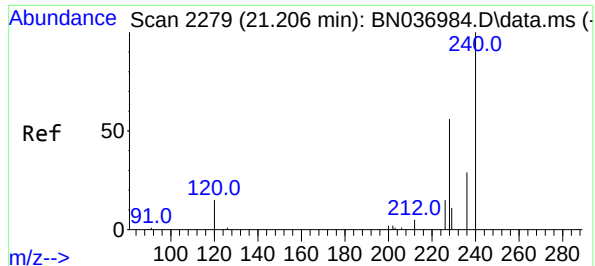
Ion Ratio Lower Upper

202 100

101 11.7 8.6 12.8

203 17.6 13.5 20.3





#29

Chrysene-d12

Concen: 0.40 ng

RT: 21.206 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036982.D

Acq: 12 May 2025 13:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

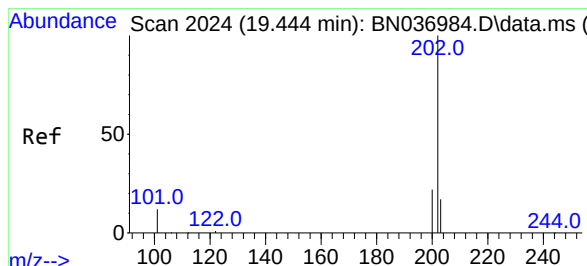
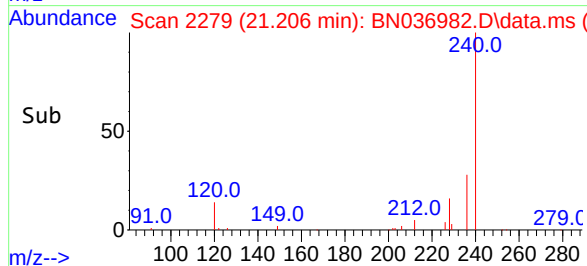
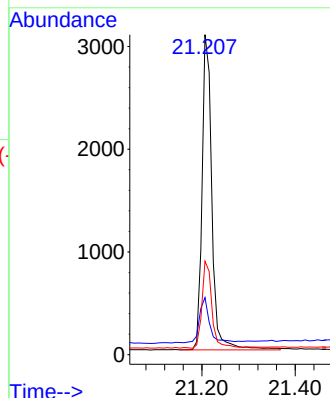
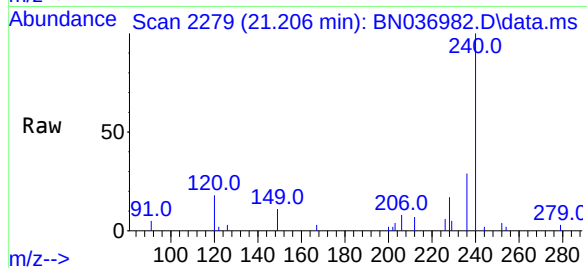
Tgt Ion:240 Resp: 4513

Ion Ratio Lower Upper

240 100

120 17.8 14.5 21.7

236 29.2 24.3 36.5



#30

Pyrene

Concen: 0.10 ng

RT: 19.444 min Scan# 2024

Delta R.T. 0.000 min

Lab File: BN036982.D

Acq: 12 May 2025 13:43

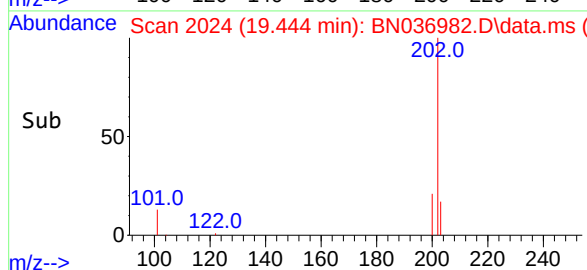
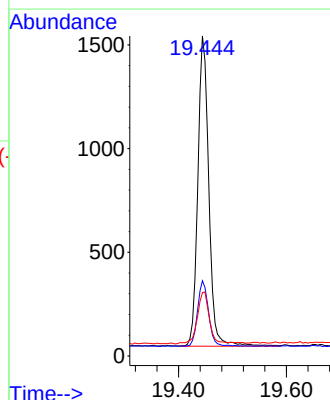
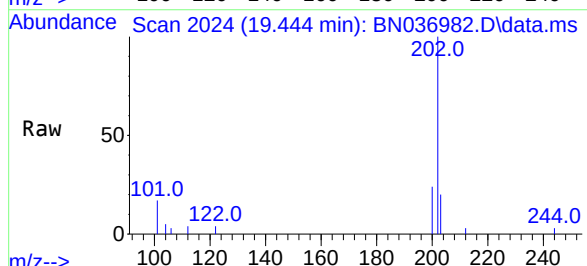
Tgt Ion:202 Resp: 2119

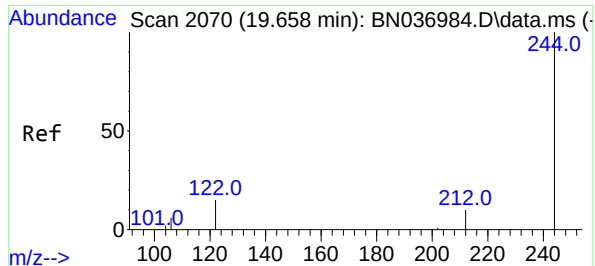
Ion Ratio Lower Upper

202 100

200 21.0 17.3 25.9

203 18.5 14.4 21.6

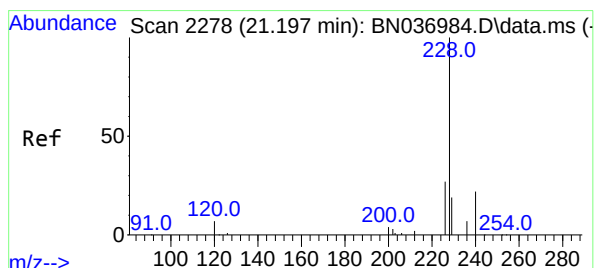
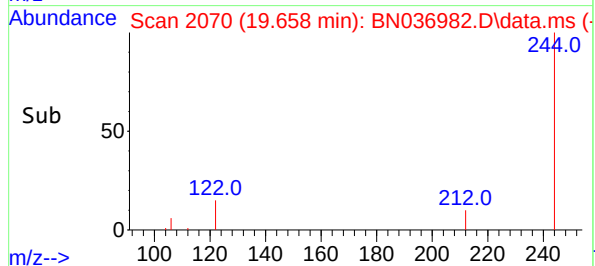
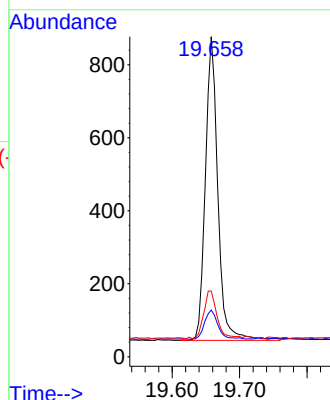
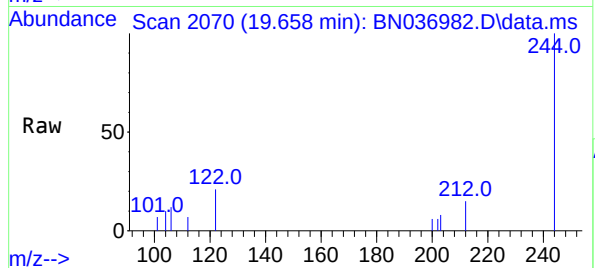




#31
Terphenyl-d14
Concen: 0.10 ng
RT: 19.658 min Scan# 2070
Delta R.T. 0.000 min
Lab File: BN036982.D
Acq: 12 May 2025 13:43

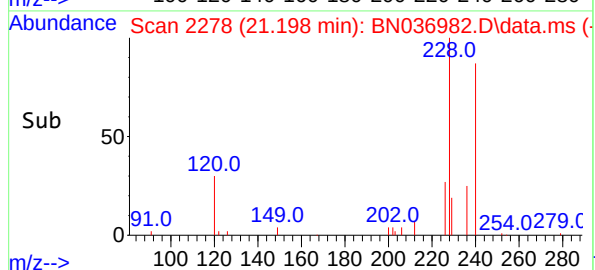
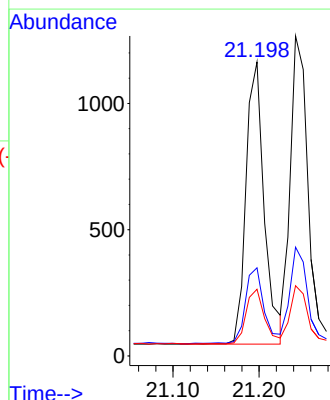
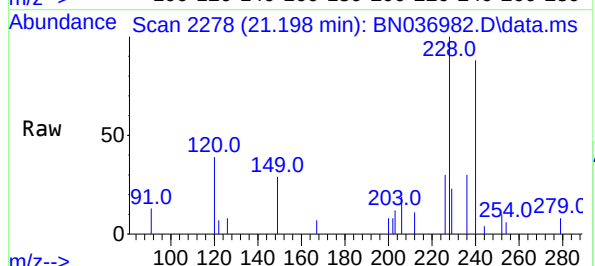
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

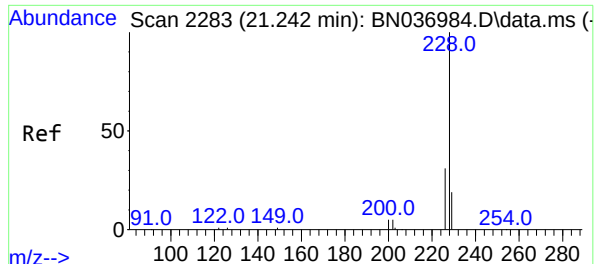
Tgt Ion:244 Resp: 1070
Ion Ratio Lower Upper
244 100
212 14.6 9.5 14.3#
122 20.5 13.4 20.0#



#32
Benzo(a)anthracene
Concen: 0.10 ng
RT: 21.198 min Scan# 2278
Delta R.T. 0.000 min
Lab File: BN036982.D
Acq: 12 May 2025 13:43

Tgt Ion:228 Resp: 1647
Ion Ratio Lower Upper
228 100
226 30.0 22.4 33.6
229 22.7 16.0 24.0

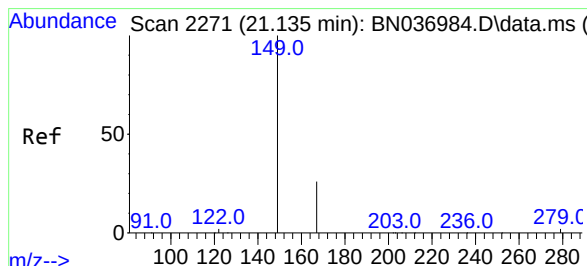
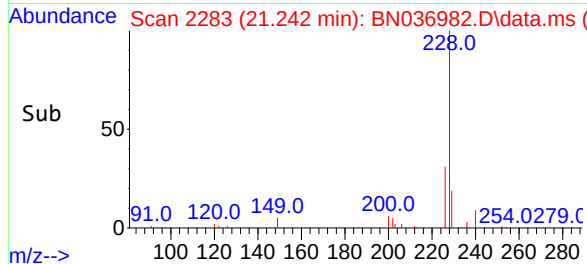
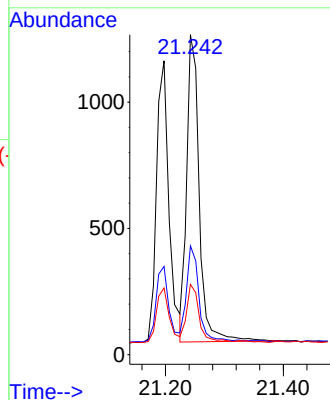
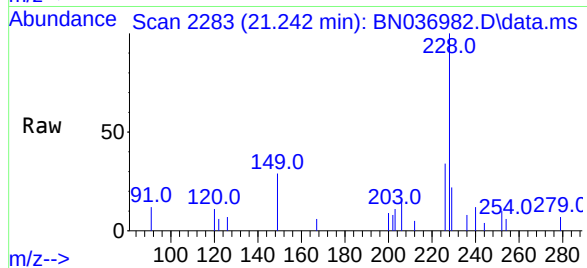




#33
Chrysene
Concen: 0.10 ng
RT: 21.242 min Scan# 2128
Delta R.T. 0.000 min
Lab File: BN036982.D
Acq: 12 May 2025 13:43

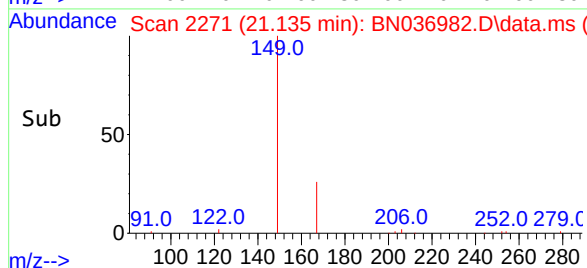
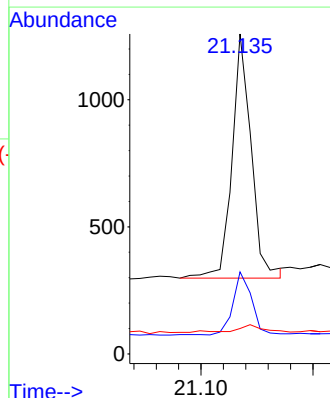
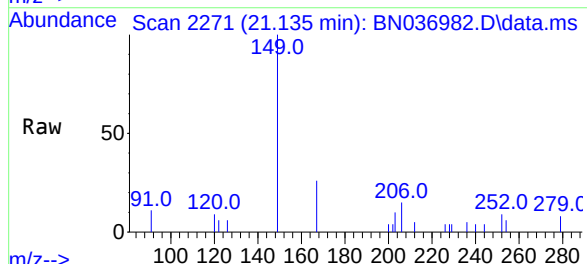
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

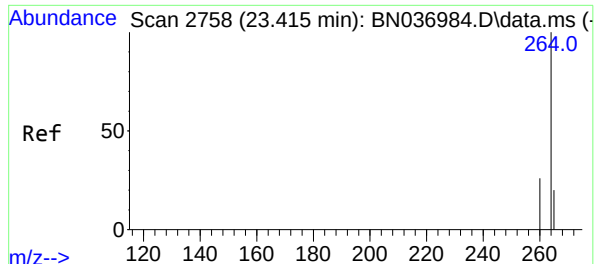
Tgt Ion:228 Resp: 1797
Ion Ratio Lower Upper
228 100
226 34.0 25.7 38.5
229 21.9 16.0 24.0



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.11 ng
RT: 21.135 min Scan# 2271
Delta R.T. 0.000 min
Lab File: BN036982.D
Acq: 12 May 2025 13:43

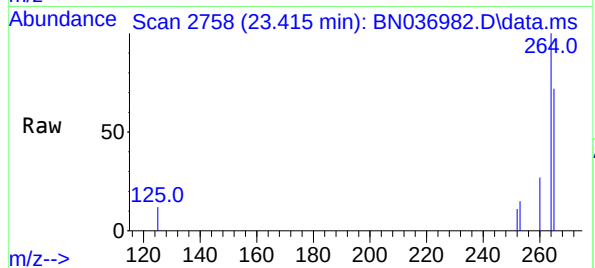
Tgt Ion:149 Resp: 1141
Ion Ratio Lower Upper
149 100
167 24.7 21.0 31.6
279 3.5 2.7 4.1



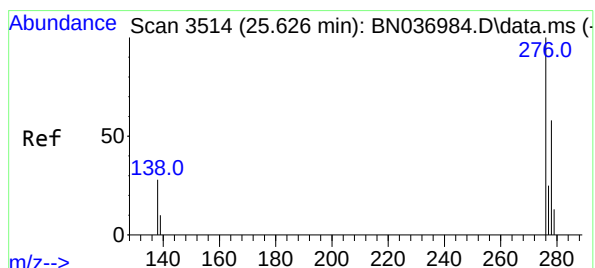
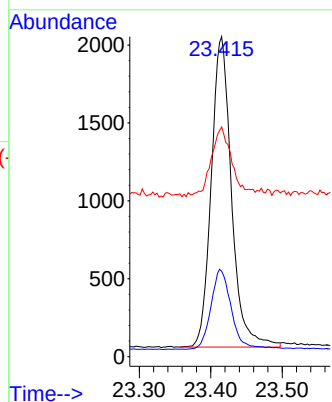


#35
Perylene-d12
Concen: 0.40 ng
RT: 23.415 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036982.D
Acq: 12 May 2025 13:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

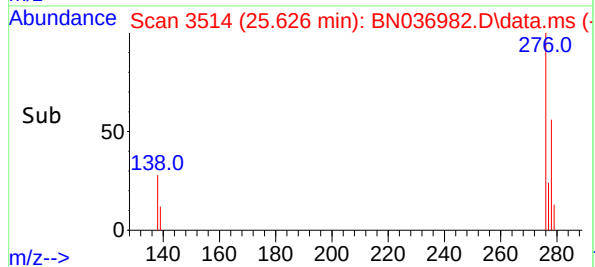
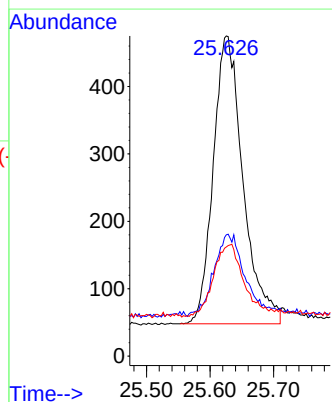
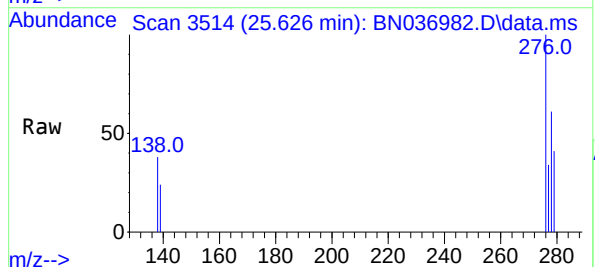


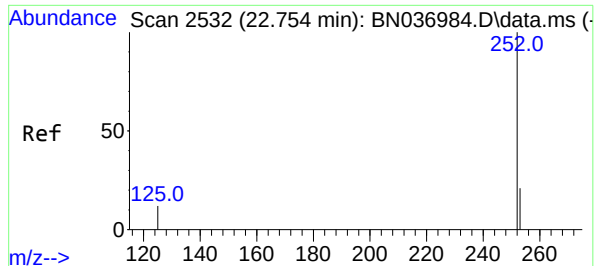
Tgt Ion:264 Resp: 3919
Ion Ratio Lower Upper
264 100
260 26.7 22.3 33.5
265 71.8 55.4 83.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.09 ng
RT: 25.626 min Scan# 3514
Delta R.T. 0.000 min
Lab File: BN036982.D
Acq: 12 May 2025 13:43

Tgt Ion:276 Resp: 1391
Ion Ratio Lower Upper
276 100
138 30.5 21.8 32.8
277 25.1 20.2 30.4





#37

Benzo(b)fluoranthene

Concen: 0.10 ng

RT: 22.755 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036982.D

Acq: 12 May 2025 13:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

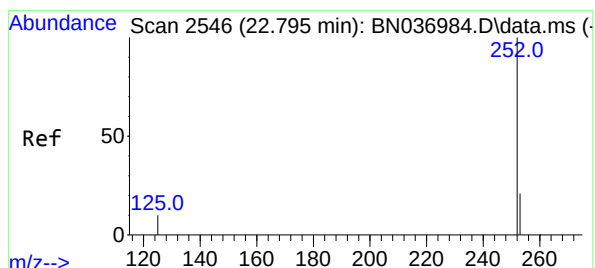
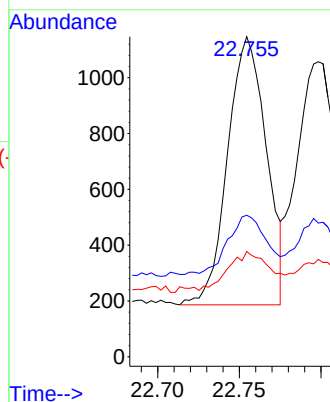
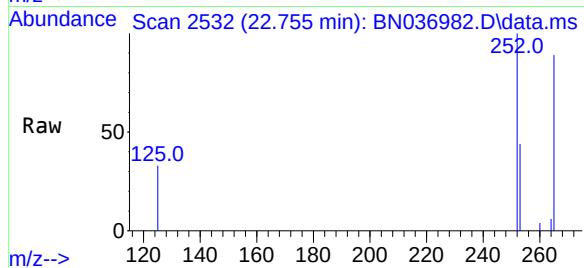
Tgt Ion:252 Resp: 1586

Ion Ratio Lower Upper

252 100

253 44.2 21.9 32.9#

125 32.9 13.8 20.8#



#38

Benzo(k)fluoranthene

Concen: 0.09 ng

RT: 22.798 min Scan# 2547

Delta R.T. 0.003 min

Lab File: BN036982.D

Acq: 12 May 2025 13:43

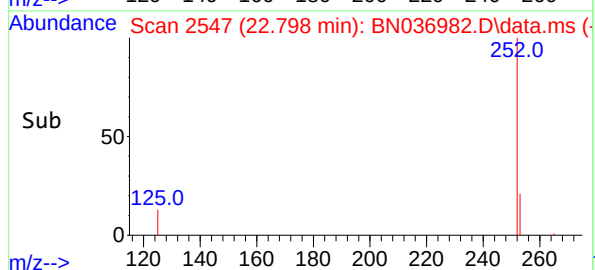
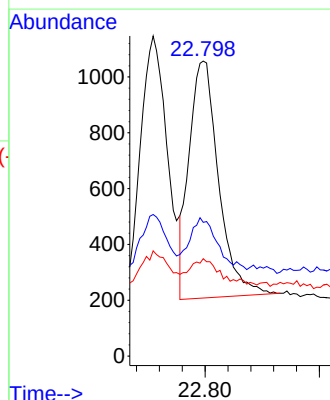
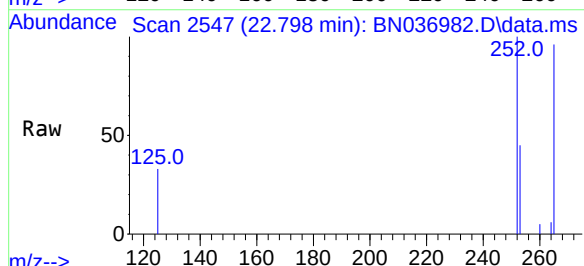
Tgt Ion:252 Resp: 1521

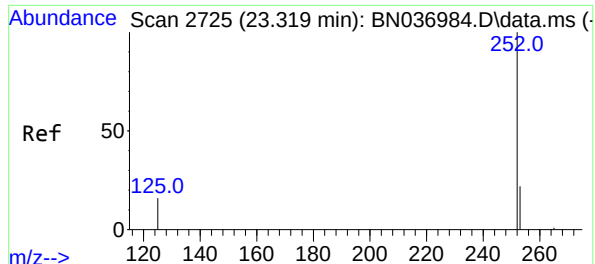
Ion Ratio Lower Upper

252 100

253 45.3 22.0 33.0#

125 33.0 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 0.10 ng

RT: 23.319 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036982.D

Acq: 12 May 2025 13:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

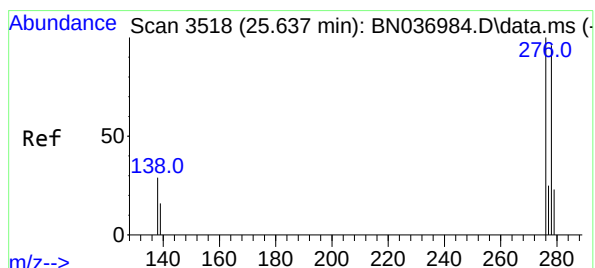
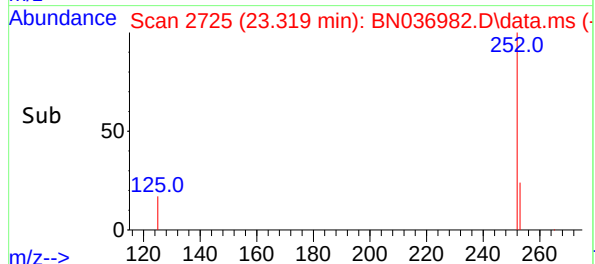
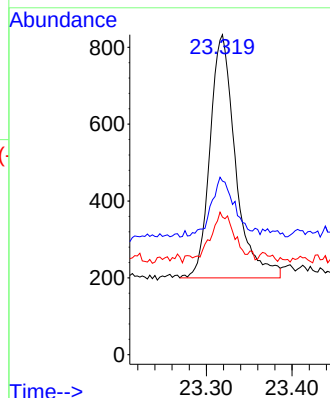
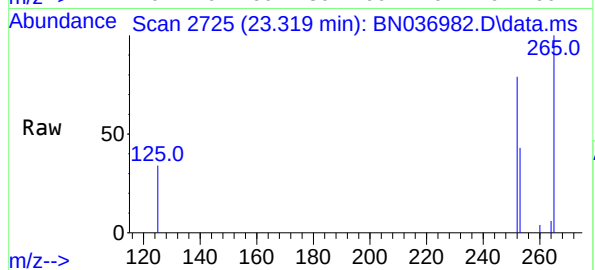
Tgt Ion:252 Resp: 1311

Ion Ratio Lower Upper

252 100

253 54.3 24.8 37.2#

125 43.0 18.6 28.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.09 ng

RT: 25.643 min Scan# 3520

Delta R.T. 0.006 min

Lab File: BN036982.D

Acq: 12 May 2025 13:43

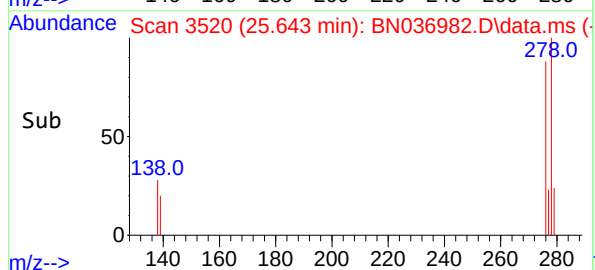
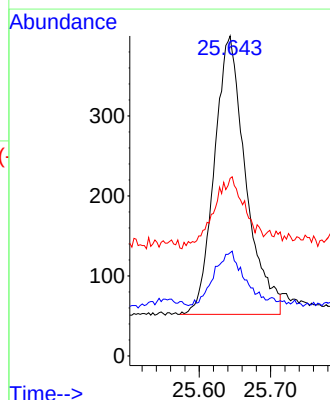
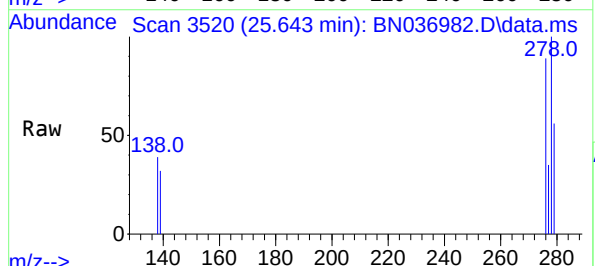
Tgt Ion:278 Resp: 1061

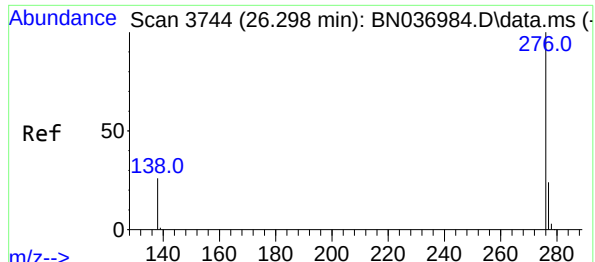
Ion Ratio Lower Upper

278 100

139 32.2 18.1 27.1#

279 55.5 25.3 37.9#





#41

Benzo(g,h,i)perylene

Concen: 0.10 ng m

RT: 26.304 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN036982.D

Acq: 12 May 2025 13:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

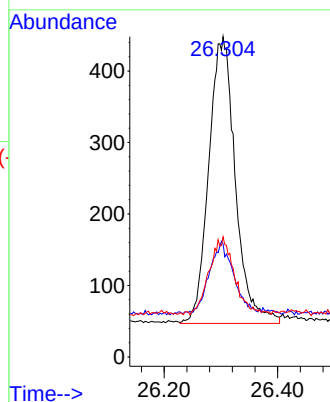
Tgt Ion:276 Resp: 1304

Ion Ratio Lower Upper

276 100

277 35.3 21.2 31.8#

138 37.5 22.6 33.8#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051225\
 Data File : BN036983.D
 Acq On : 12 May 2025 14:19
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: May 12 17:52:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 12 17:44:09 2025
 Response via : Initial Calibration

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

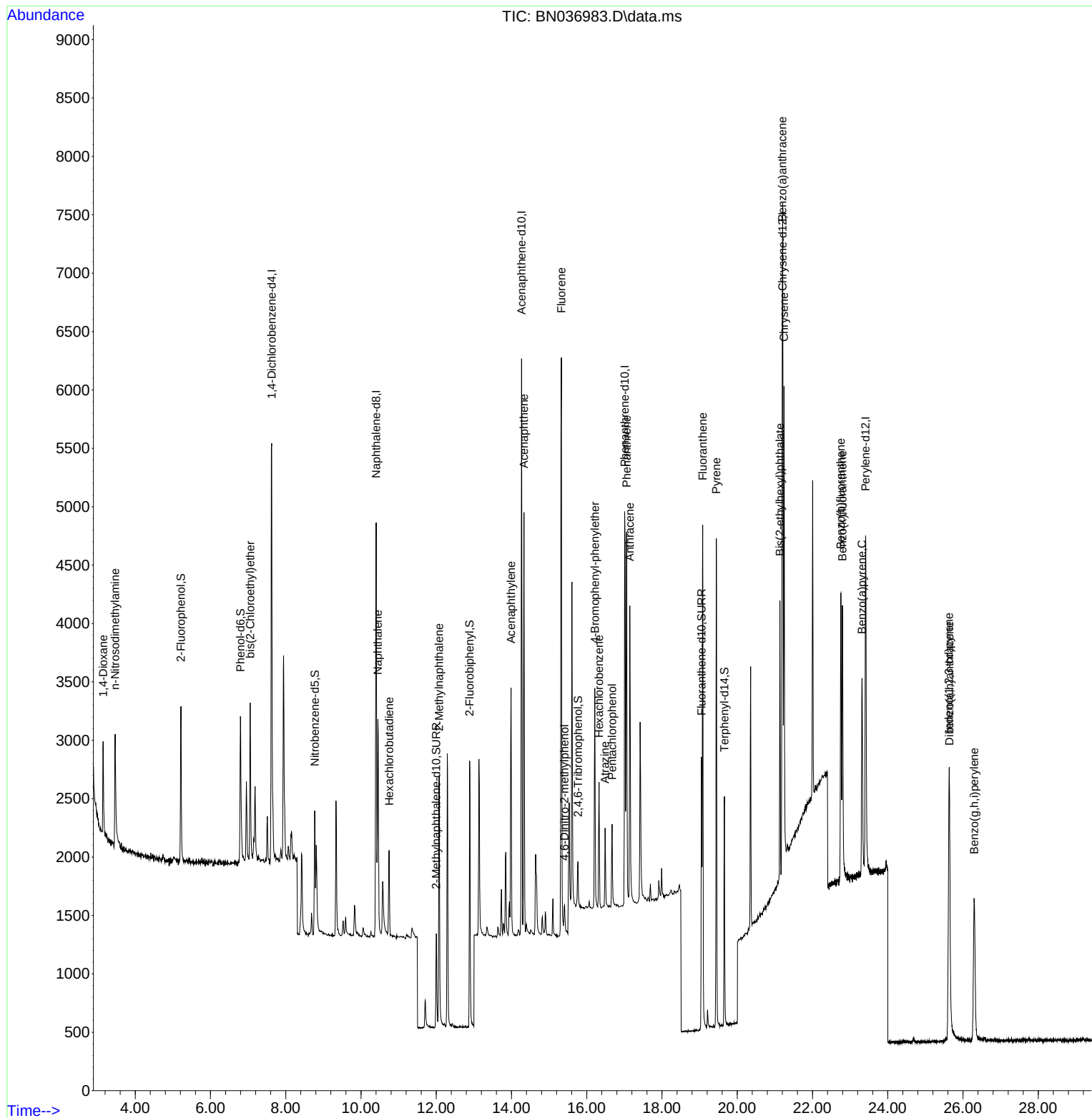
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.626	152	1814	0.40	ng	0.00
7) Naphthalene-d8	10.404	136	4504	0.40	ng	0.00
13) Acenaphthene-d10	14.267	164	2538	0.40	ng	0.00
19) Phenanthrene-d10	17.009	188	5261	0.40	ng	0.00
29) Chrysene-d12	21.207	240	4241	0.40	ng	0.00
35) Perylene-d12	23.412	264	3869	0.40	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	939	0.20	ng	0.00
5) Phenol-d6	6.795	99	1088	0.19	ng	0.00
8) Nitrobenzene-d5	8.771	82	869	0.18	ng	0.00
11) 2-Methylnaphthalene-d10	12.001	152	1225	0.19	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	223	0.19	ng	0.00
15) 2-Fluorobiphenyl	12.889	172	2082	0.18	ng	0.00
27) Fluoranthene-d10	19.054	212	2713	0.19	ng	0.00
31) Terphenyl-d14	19.658	244	1925	0.20	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.148	88	450m	0.19	ng	
3) n-Nitrosodimethylamine	3.466	42	925	0.19	ng	# 97
6) bis(2-Chloroethyl)ether	7.055	93	1027	0.20	ng	98
9) Naphthalene	10.447	128	2555	0.20	ng	96
10) Hexachlorobutadiene	10.746	225	580	0.21	ng	# 96
12) 2-Methylnaphthalene	12.077	142	1609	0.19	ng	98
16) Acenaphthylene	13.989	152	2338	0.19	ng	99
17) Acenaphthene	14.331	154	1553	0.19	ng	99
18) Fluorene	15.325	166	2094	0.19	ng	99
20) 4,6-Dinitro-2-methylph...	15.411	198	211	0.16	ng	# 47
21) 4-Bromophenyl-phenylether	16.214	248	664	0.19	ng	98
22) Hexachlorobenzene	16.326	284	731	0.20	ng	97
23) Atrazine	16.487	200	573	0.19	ng	95
24) Pentachlorophenol	16.674	266	352	0.17	ng	98
25) Phenanthrene	17.058	178	3285	0.19	ng	99
26) Anthracene	17.145	178	2889	0.18	ng	98
28) Fluoranthene	19.082	202	3781	0.19	ng	99
30) Pyrene	19.444	202	3850	0.20	ng	99
32) Benzo(a)anthracene	21.198	228	3098	0.19	ng	98
33) Chrysene	21.242	228	3328	0.20	ng	98
34) Bis(2-ethylhexyl)phtha...	21.135	149	2035	0.21	ng	99
36) Indeno(1,2,3-cd)pyrene	25.629	276	2901	0.19	ng	98
37) Benzo(b)fluoranthene	22.752	252	3092	0.19	ng	# 88
38) Benzo(k)fluoranthene	22.796	252	3015	0.19	ng	# 86
39) Benzo(a)pyrene	23.316	252	2457	0.18	ng	# 85
40) Dibenzo(a,h)anthracene	25.640	278	2185	0.18	ng	# 90
41) Benzo(g,h,i)perylene	26.295	276	2521	0.19	ng	93

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

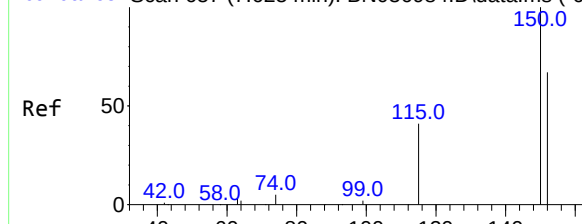
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051225\  
Data File : BN036983.D  
Acq On    : 12 May 2025  14:19  
Operator   : RC/JU  
Sample     : SSTDICC0.2  
Misc       :  
ALS Vial   : 3    Sample Multiplier: 1
```

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: May 12 17:52:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 12 17:44:09 2025
Response via : Initial Calibration



Abundance Scan 657 (7.625 min): BN036984.D\data.ms (-64)



#1

1,4-Dichlorobenzene-d4

Concen: 0.40 ng

RT: 7.626 min Scan# 6

Delta R.T. 0.001 min

Lab File: BN036983.D

Acq: 12 May 2025 14:19

Instrument :

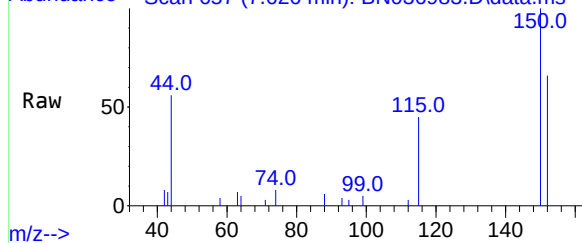
BNA_N

ClientSampleId :

SSTDICC0.2

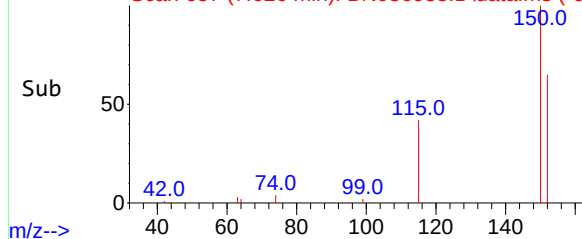
m/z-->

Abundance Scan 657 (7.626 min): BN036983.D\data.ms



m/z-->

Abundance Scan 657 (7.626 min): BN036983.D\data.ms (-62)



m/z-->

Tgt Ion:152 Resp: 1814

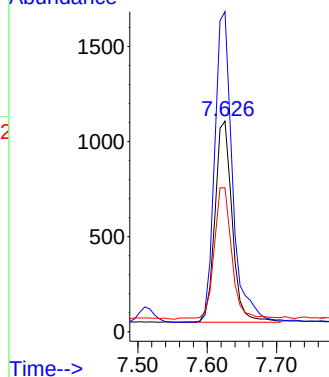
Ion Ratio Lower Upper

152 100

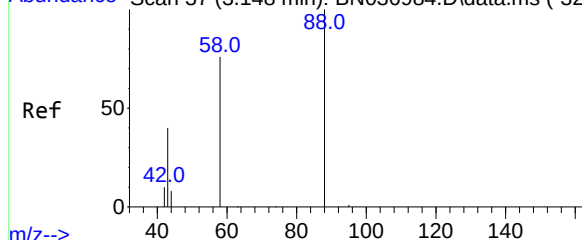
150 151.9 118.2 177.4

115 68.3 52.5 78.7

Abundance

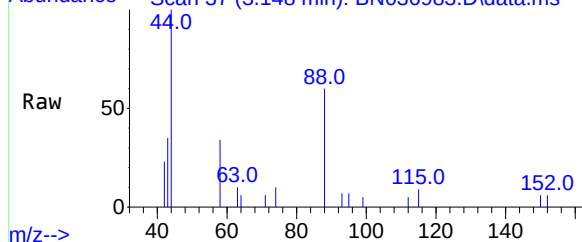


Abundance Scan 37 (3.148 min): BN036984.D\data.ms (-32)



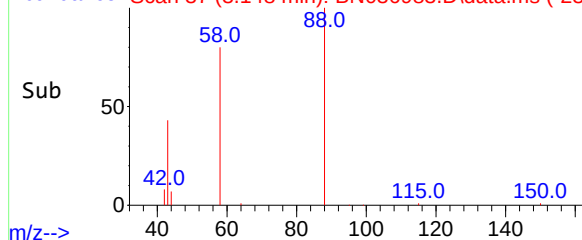
m/z-->

Abundance Scan 37 (3.148 min): BN036983.D\data.ms



m/z-->

Abundance Scan 37 (3.148 min): BN036983.D\data.ms (-23)



m/z-->

#2

1,4-Dioxane

Concen: 0.19 ng m

RT: 3.148 min Scan# 37

Delta R.T. 0.000 min

Lab File: BN036983.D

Acq: 12 May 2025 14:19

Tgt Ion: 88 Resp: 450

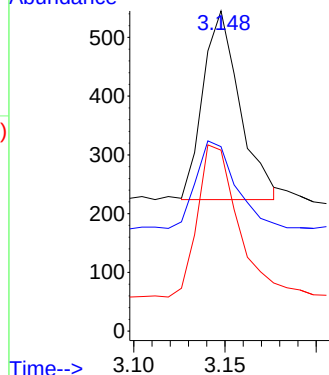
Ion Ratio Lower Upper

88 100

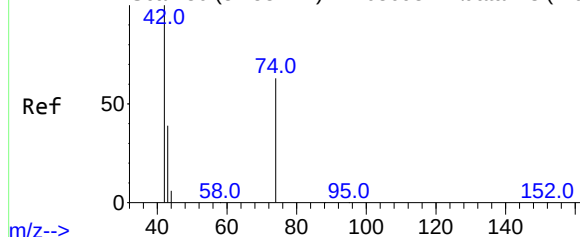
43 52.4 43.3 64.9

58 90.9 70.7 106.1

Abundance

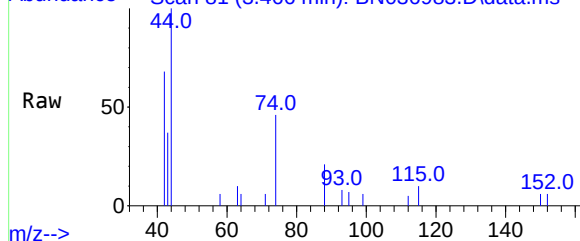


Abundance Scan 80 (3.458 min): BN036984.D\data.ms (-76)



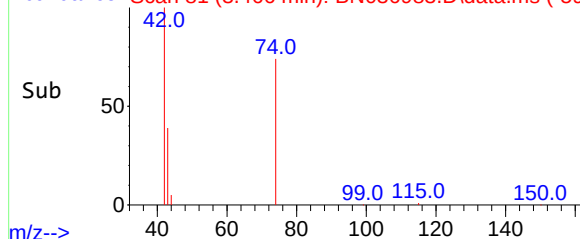
m/z-->

Abundance Scan 81 (3.466 min): BN036983.D\data.ms



m/z-->

Abundance Scan 81 (3.466 min): BN036983.D\data.ms (-59)



m/z-->

#3

n-Nitrosodimethylamine

Concen: 0.19 ng

RT: 3.466 min Scan# 81

Delta R.T. 0.007 min

Lab File: BN036983.D

Acq: 12 May 2025 14:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion: 42 Resp: 925

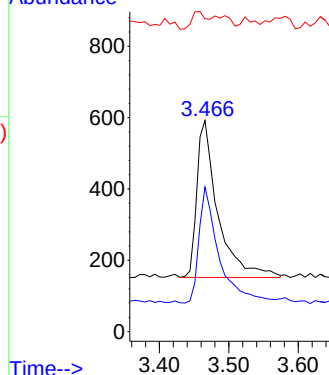
Ion Ratio Lower Upper

42 100

74 70.9 55.2 82.8

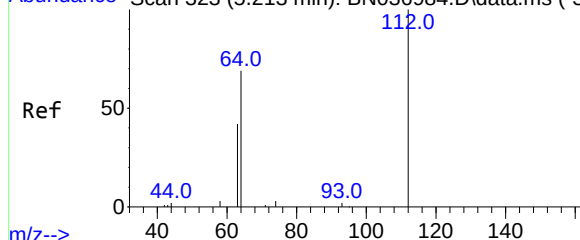
44 8.0 4.7 7.1#

Abundance



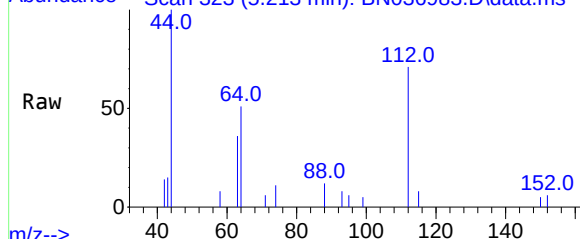
Time-->

Abundance Scan 323 (5.213 min): BN036984.D\data.ms (-31)



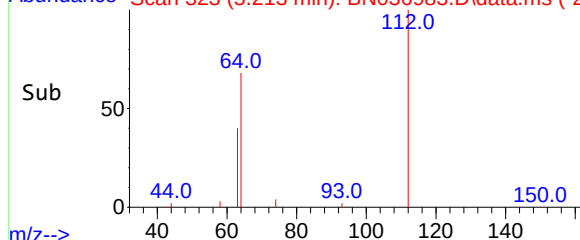
m/z-->

Abundance Scan 323 (5.213 min): BN036983.D\data.ms



m/z-->

Abundance Scan 323 (5.213 min): BN036983.D\data.ms (-29)



m/z-->

#4

2-Fluorophenol

Concen: 0.20 ng

RT: 5.213 min Scan# 323

Delta R.T. 0.000 min

Lab File: BN036983.D

Acq: 12 May 2025 14:19

Tgt Ion: 112 Resp: 939

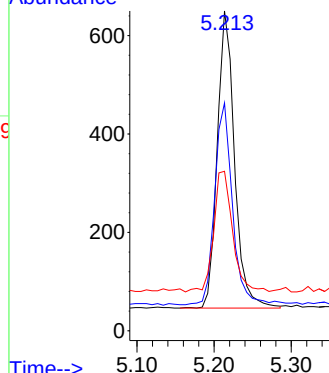
Ion Ratio Lower Upper

112 100

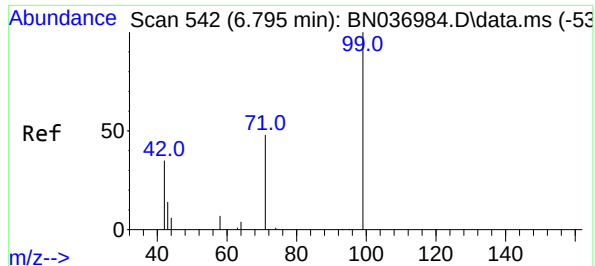
64 70.2 56.2 84.2

63 44.6 34.3 51.5

Abundance



Time-->



#5

Phenol-d6

Concen: 0.19 ng

RT: 6.795 min Scan# 542

Delta R.T. 0.000 min

Lab File: BN036983.D

Acq: 12 May 2025 14:19

Instrument :

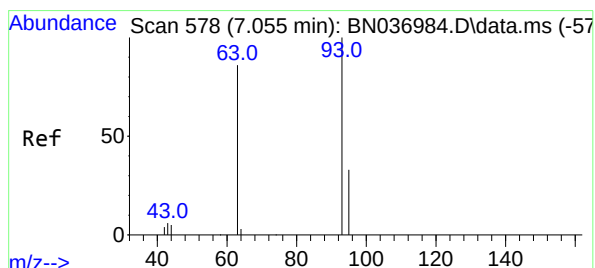
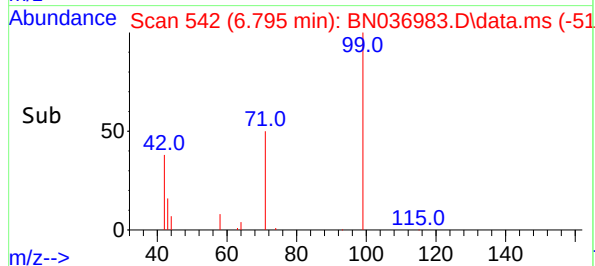
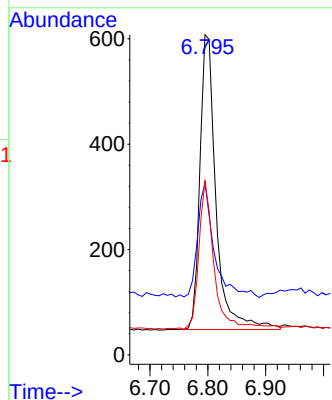
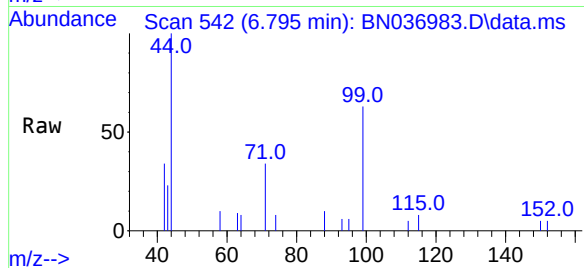
BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion: 99 Resp: 1088

Ion	Ratio	Lower	Upper
99	100		
42	39.7	29.0	43.6
71	47.5	36.2	54.2



#6

bis(2-Chloroethyl)ether

Concen: 0.20 ng

RT: 7.055 min Scan# 578

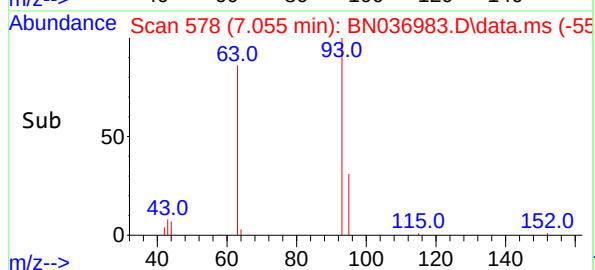
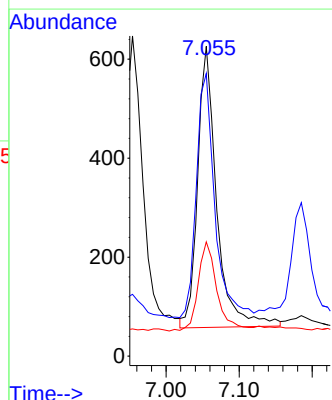
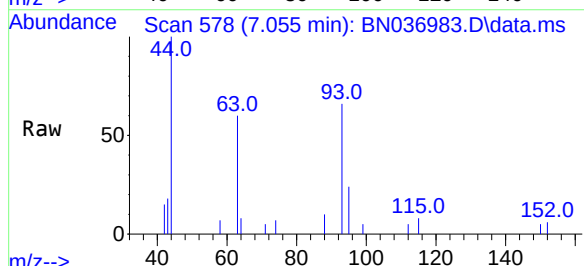
Delta R.T. 0.000 min

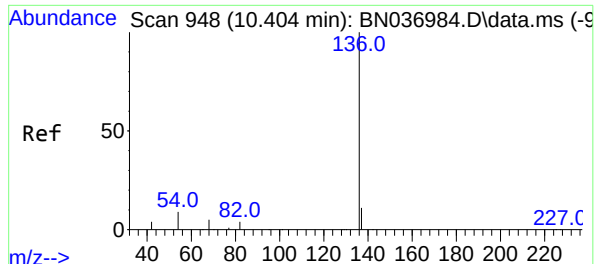
Lab File: BN036983.D

Acq: 12 May 2025 14:19

Tgt Ion: 93 Resp: 1027

Ion	Ratio	Lower	Upper
93	100		
63	84.1	69.6	104.4
95	31.3	25.1	37.7

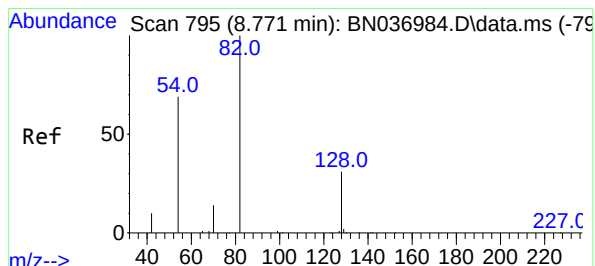
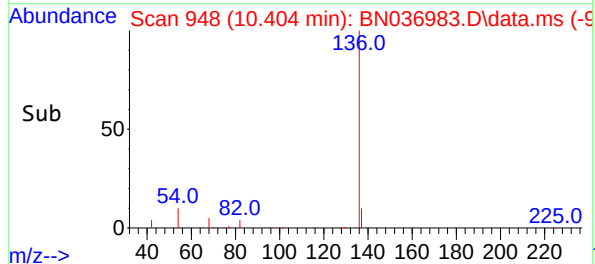
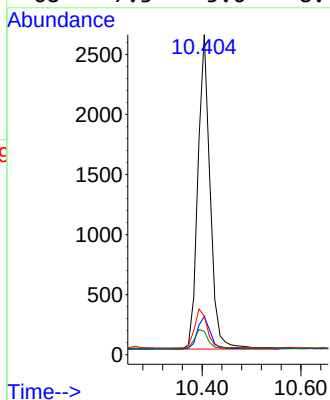
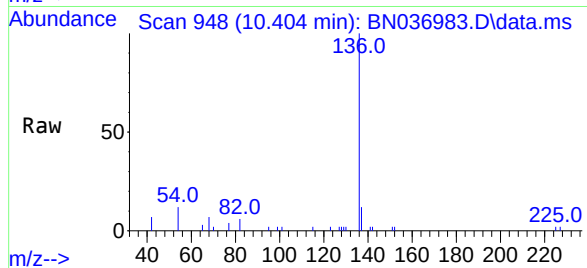




#7
Naphthalene-d8
Concen: 0.40 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN036983.D
Acq: 12 May 2025 14:19

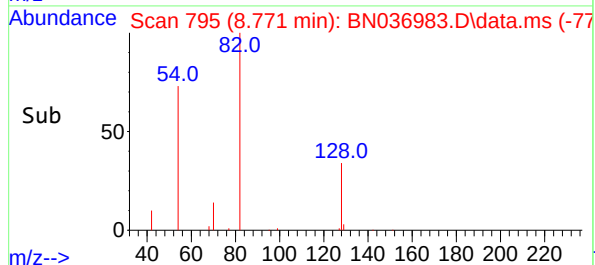
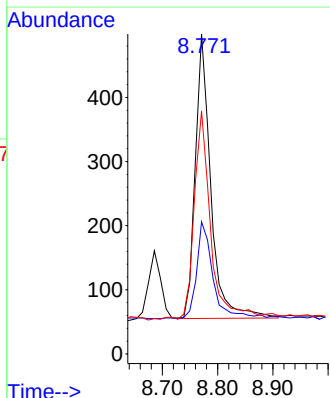
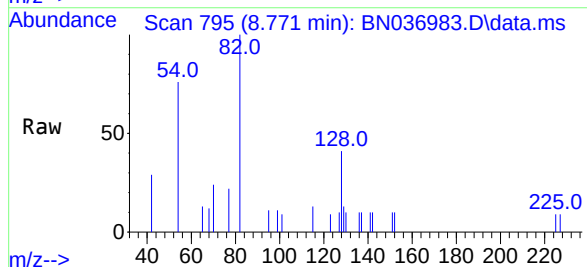
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

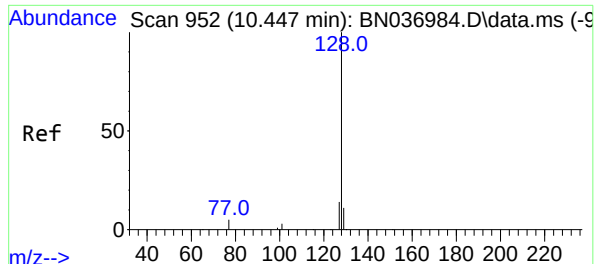
Tgt Ion:	136	Resp:	4504
Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.3	15.5
54	12.1	9.2	13.8
68	7.3	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.18 ng
RT: 8.771 min Scan# 795
Delta R.T. 0.000 min
Lab File: BN036983.D
Acq: 12 May 2025 14:19

Tgt Ion:	82	Resp:	869
Ion	Ratio	Lower	Upper
82	100		
128	41.3	28.1	42.1
54	76.0	56.4	84.6

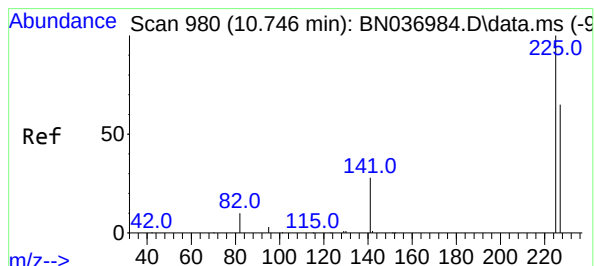
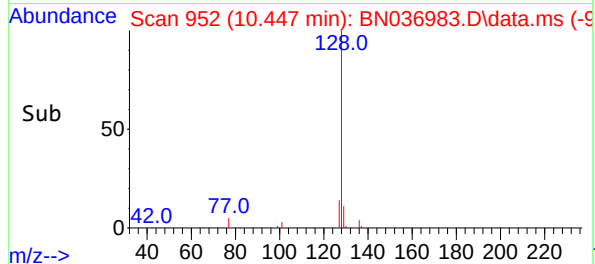
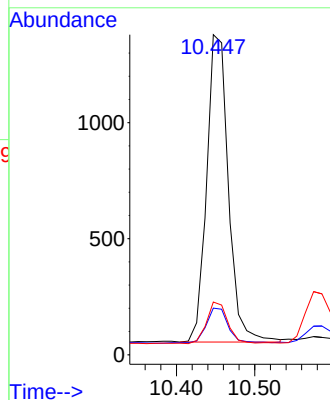
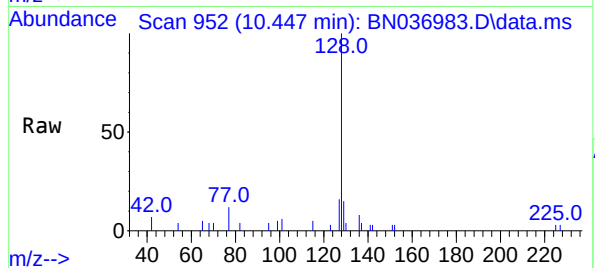




#9
Naphthalene
Concen: 0.20 ng
RT: 10.447 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036983.D
Acq: 12 May 2025 14:19

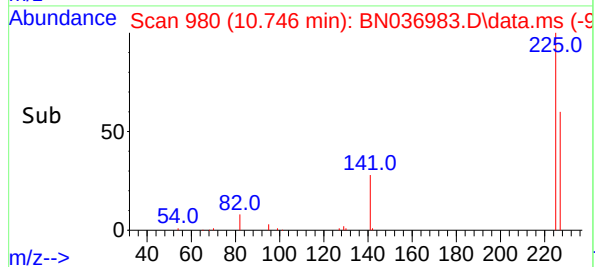
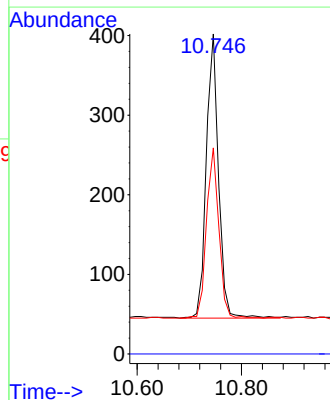
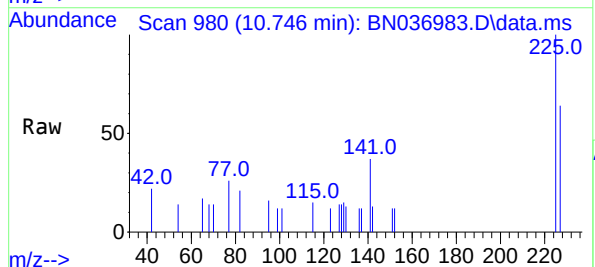
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

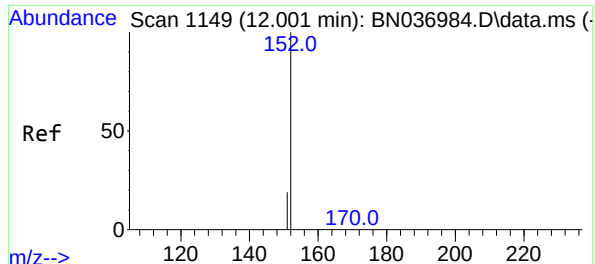
Tgt Ion:128 Resp: 2555
Ion Ratio Lower Upper
128 100
129 14.6 10.0 15.0
127 16.5 12.1 18.1



#10
Hexachlorobutadiene
Concen: 0.21 ng
RT: 10.746 min Scan# 980
Delta R.T. 0.000 min
Lab File: BN036983.D
Acq: 12 May 2025 14:19

Tgt Ion:225 Resp: 580
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 60.5 51.2 76.8

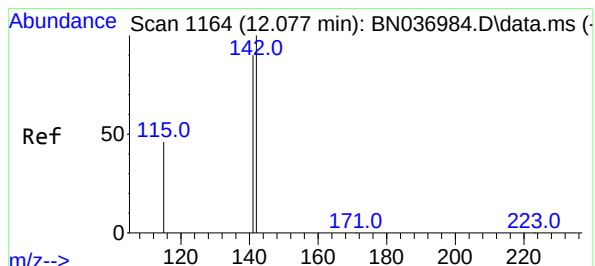
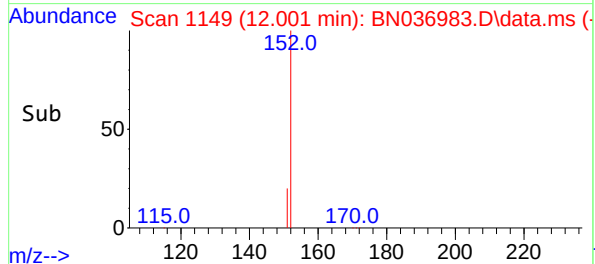
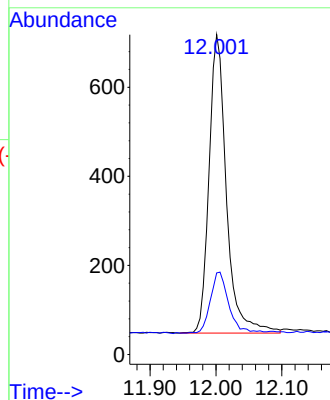
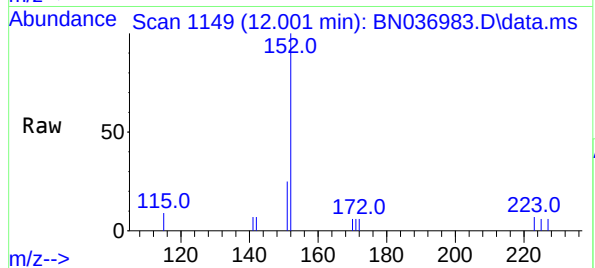




#11
2-Methylnaphthalene-d10
Concen: 0.19 ng
RT: 12.001 min Scan# 1149
Delta R.T. 0.000 min
Lab File: BN036983.D
Acq: 12 May 2025 14:19

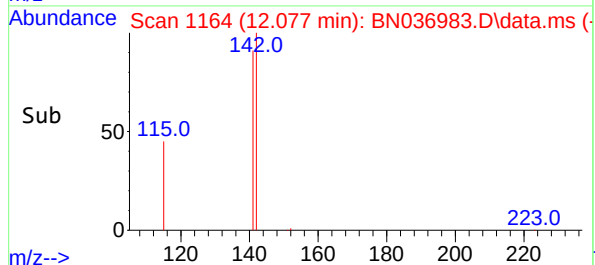
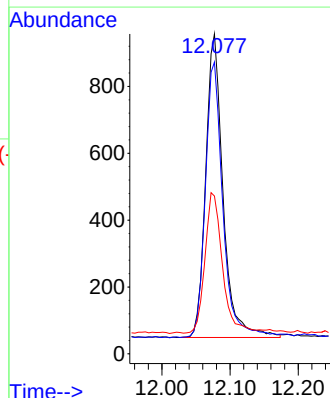
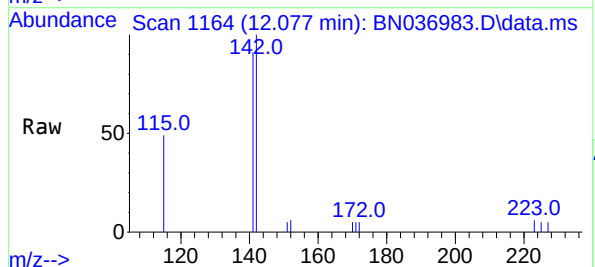
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

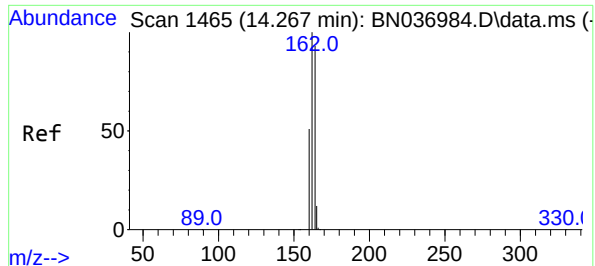
Tgt Ion:152 Resp: 1225
Ion Ratio Lower Upper
152 100
151 21.5 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.19 ng
RT: 12.077 min Scan# 1164
Delta R.T. 0.000 min
Lab File: BN036983.D
Acq: 12 May 2025 14:19

Tgt Ion:142 Resp: 1609
Ion Ratio Lower Upper
142 100
141 91.2 71.8 107.8
115 49.3 38.6 58.0





#13

Acenaphthene-d10

Concen: 0.40 ng

RT: 14.267 min Scan# 1465

Delta R.T. 0.000 min

Lab File: BN036983.D

Acq: 12 May 2025 14:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

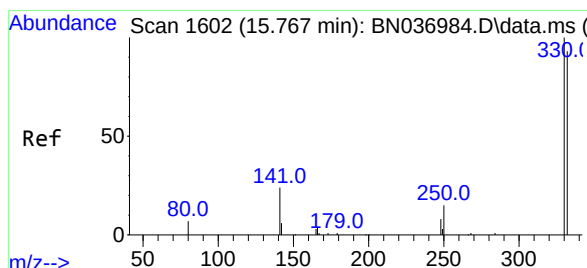
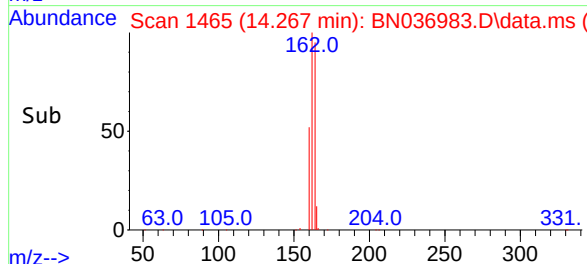
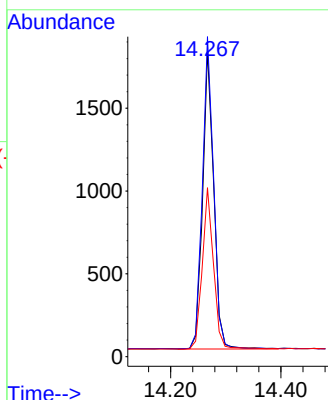
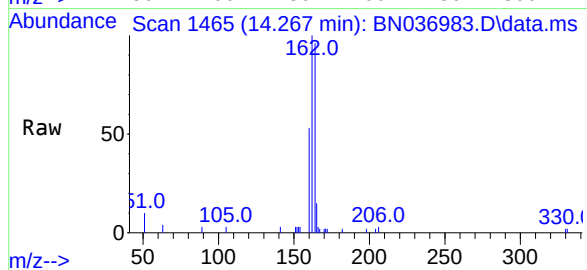
Tgt Ion:164 Resp: 2538

Ion	Ratio	Lower	Upper

164	100		

162	104.7	86.1	129.1

160	55.3	44.6	67.0



#14

2,4,6-Tribromophenol

Concen: 0.19 ng

RT: 15.767 min Scan# 1602

Delta R.T. 0.000 min

Lab File: BN036983.D

Acq: 12 May 2025 14:19

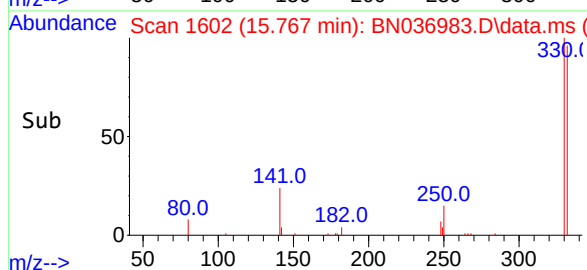
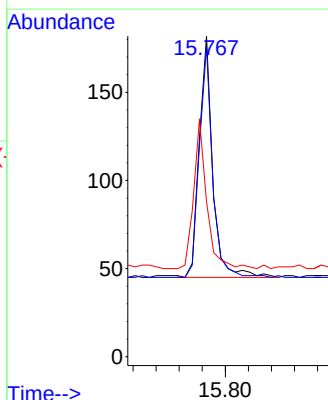
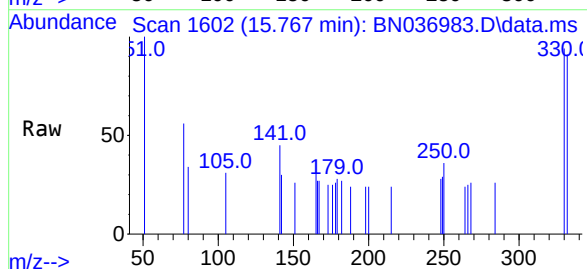
Tgt Ion:330 Resp: 223

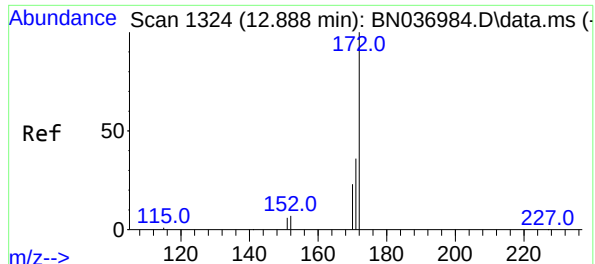
Ion	Ratio	Lower	Upper

330	100		

332	94.2	75.6	113.4

141	59.6	47.4	71.2

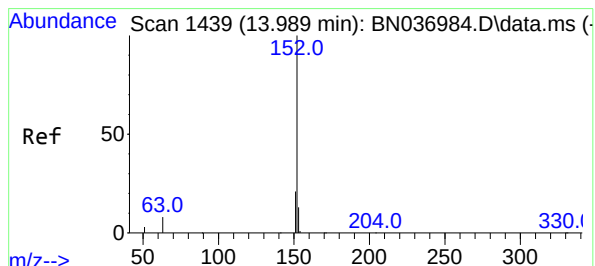
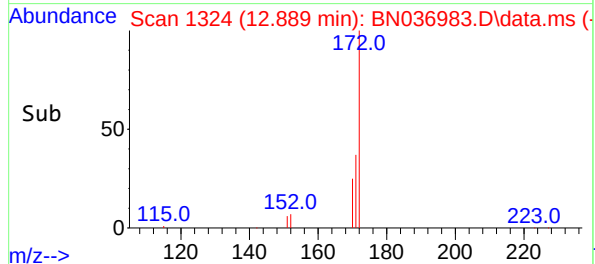
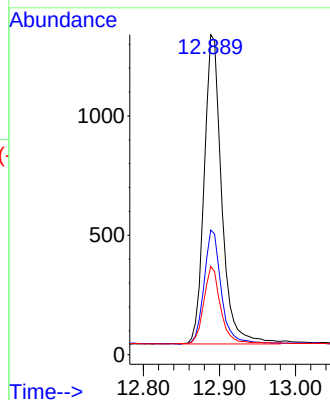
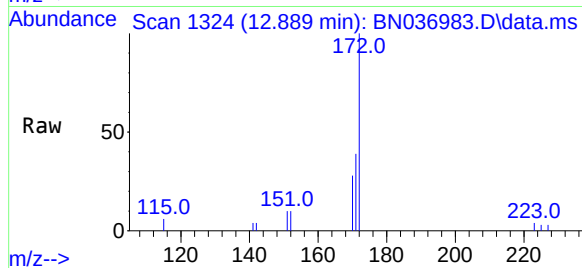




#15
2-Fluorobiphenyl
Concen: 0.18 ng
RT: 12.889 min Scan# 1324
Delta R.T. 0.000 min
Lab File: BN036983.D
Acq: 12 May 2025 14:19

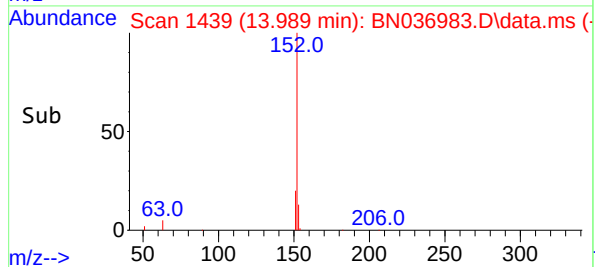
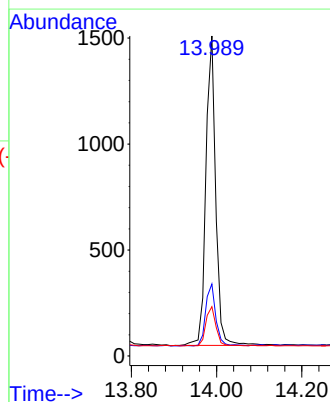
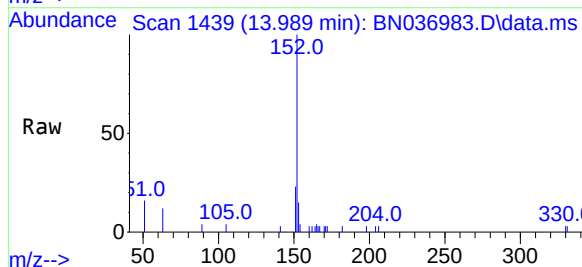
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

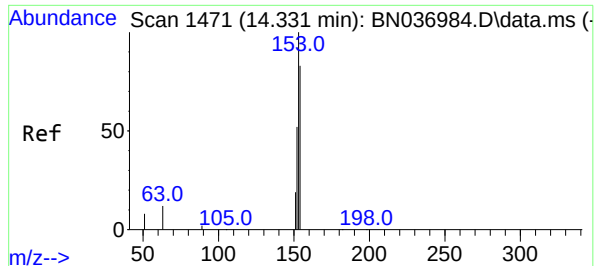
Tgt Ion:172 Resp: 2082
Ion Ratio Lower Upper
172 100
171 39.0 29.4 44.2
170 27.5 19.4 29.0



#16
Acenaphthylene
Concen: 0.19 ng
RT: 13.989 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN036983.D
Acq: 12 May 2025 14:19

Tgt Ion:152 Resp: 2338
Ion Ratio Lower Upper
152 100
151 20.7 16.2 24.4
153 13.0 10.9 16.3





#17

Acenaphthene

Concen: 0.19 ng

RT: 14.331 min Scan# 1471

Delta R.T. 0.000 min

Lab File: BN036983.D

Acq: 12 May 2025 14:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

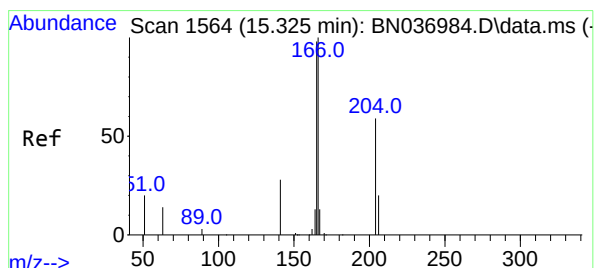
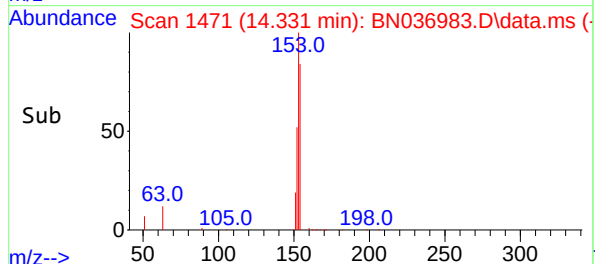
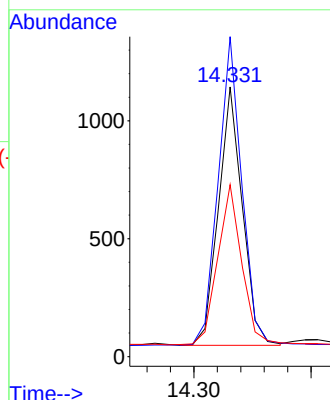
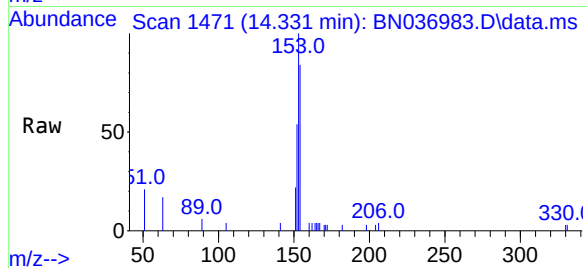
Tgt Ion:154 Resp: 1553

Ion Ratio Lower Upper

154 100

153 118.6 94.6 142.0

152 63.3 49.4 74.2



#18

Fluorene

Concen: 0.19 ng

RT: 15.325 min Scan# 1564

Delta R.T. 0.000 min

Lab File: BN036983.D

Acq: 12 May 2025 14:19

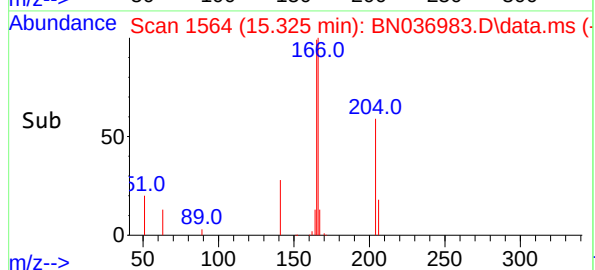
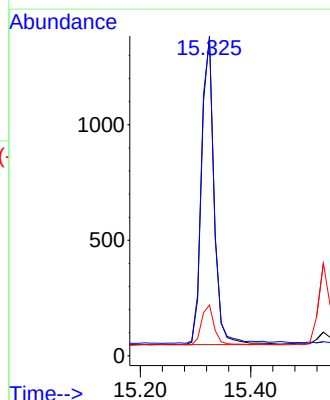
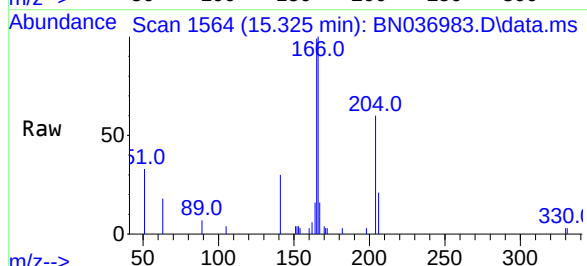
Tgt Ion:166 Resp: 2094

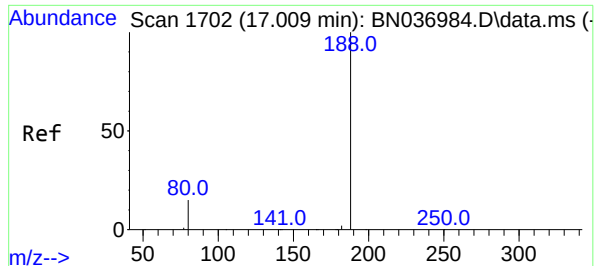
Ion Ratio Lower Upper

166 100

165 100.2 81.0 121.4

167 13.2 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.40 ng

RT: 17.009 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN036983.D

Acq: 12 May 2025 14:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

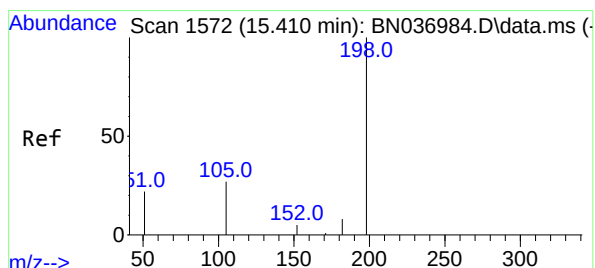
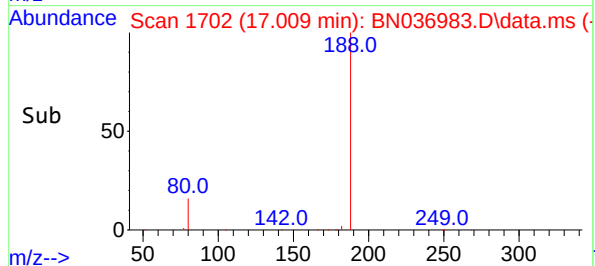
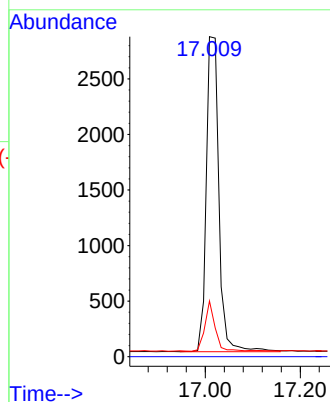
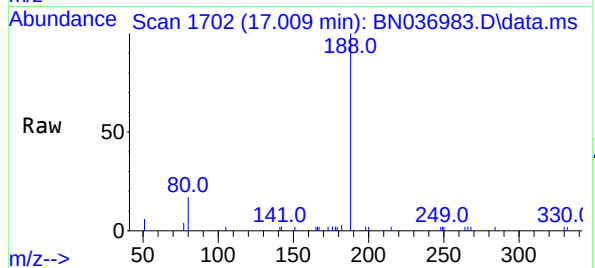
Tgt Ion:188 Resp: 5261

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 17.4 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.16 ng

RT: 15.411 min Scan# 1572

Delta R.T. 0.000 min

Lab File: BN036983.D

Acq: 12 May 2025 14:19

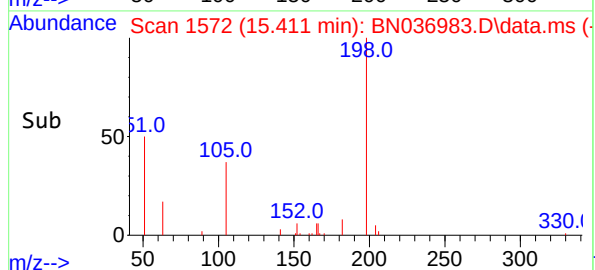
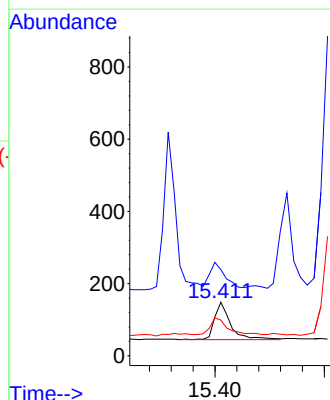
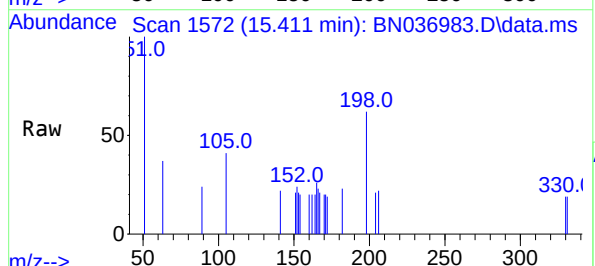
Tgt Ion:198 Resp: 211

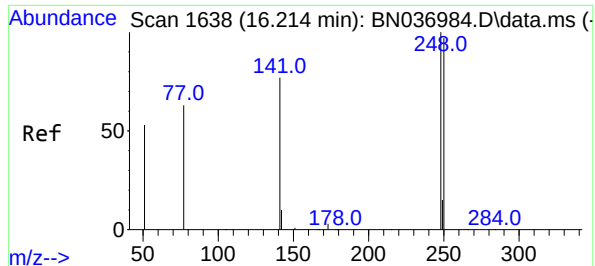
Ion Ratio Lower Upper

198 100

51 161.5 79.7 119.5#

105 66.9 36.0 54.0#

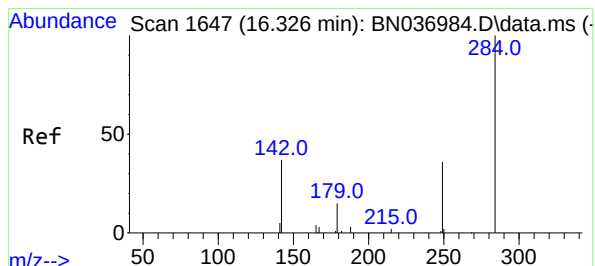
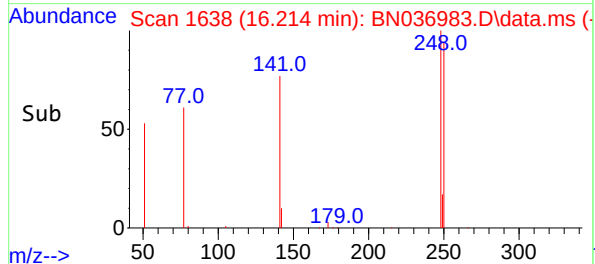
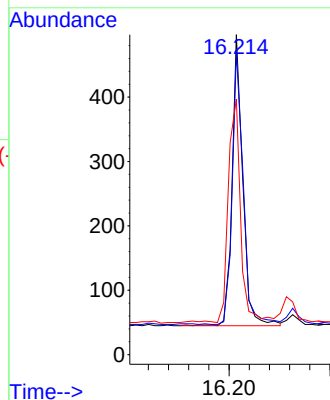
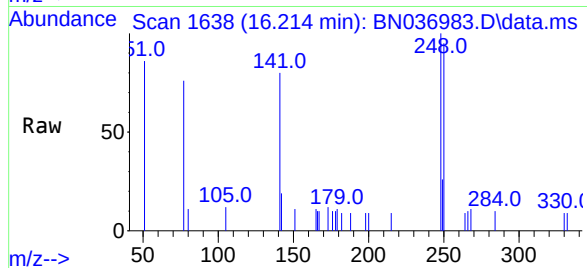




#21
4-Bromophenyl-phenylether
Concen: 0.19 ng
RT: 16.214 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN036983.D
Acq: 12 May 2025 14:19

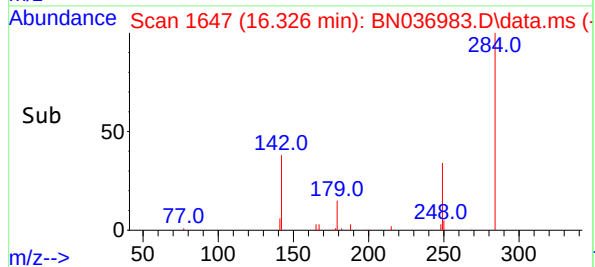
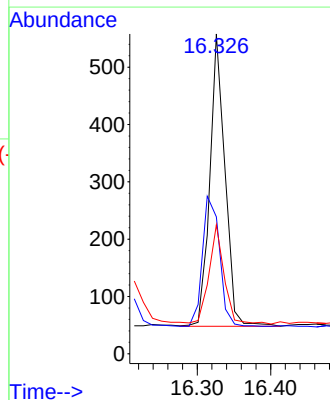
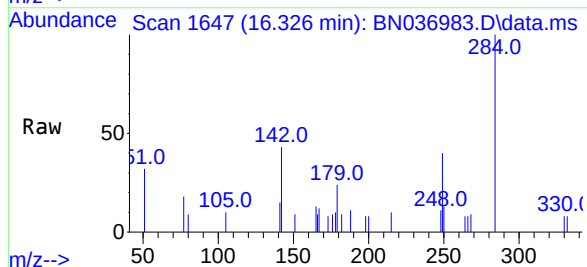
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

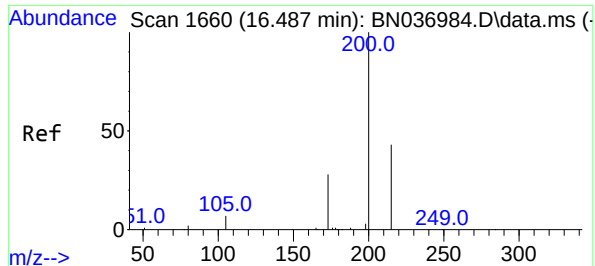
Tgt Ion:248 Resp: 664
Ion Ratio Lower Upper
248 100
250 94.6 77.8 116.8
141 79.9 63.1 94.7



#22
Hexachlorobenzene
Concen: 0.20 ng
RT: 16.326 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN036983.D
Acq: 12 May 2025 14:19

Tgt Ion:284 Resp: 731
Ion Ratio Lower Upper
284 100
142 50.1 41.4 62.2
249 33.9 29.1 43.7





#23

Atrazine

Concen: 0.19 ng

RT: 16.487 min Scan# 1660

Delta R.T. 0.000 min

Lab File: BN036983.D

Acq: 12 May 2025 14:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

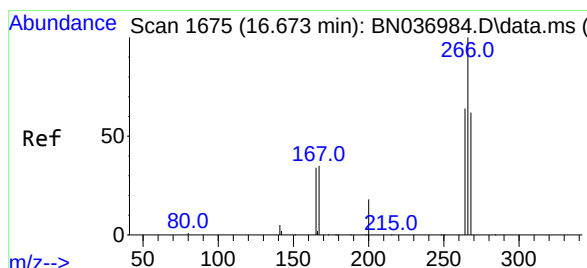
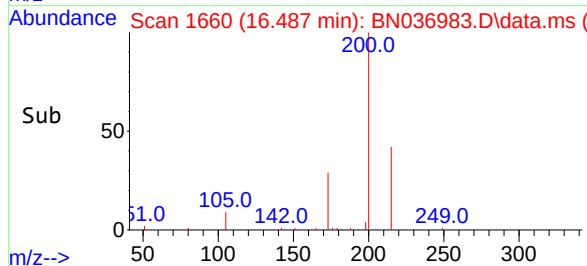
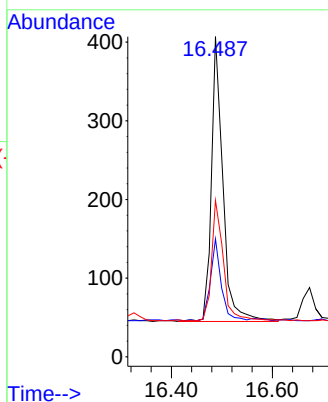
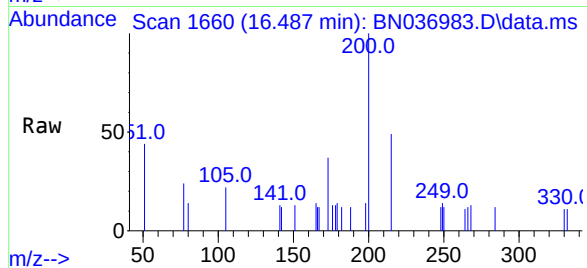
Tgt Ion:200 Resp: 573

Ion Ratio Lower Upper

200 100

173 36.9 25.8 38.6

215 48.9 37.4 56.0



#24

Pentachlorophenol

Concen: 0.17 ng

RT: 16.674 min Scan# 1675

Delta R.T. 0.000 min

Lab File: BN036983.D

Acq: 12 May 2025 14:19

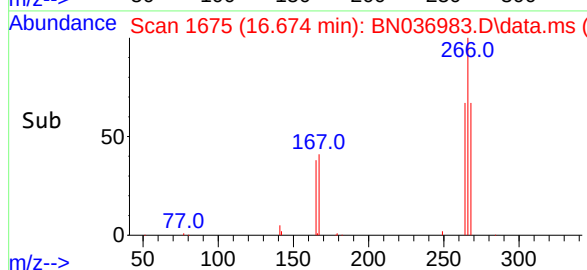
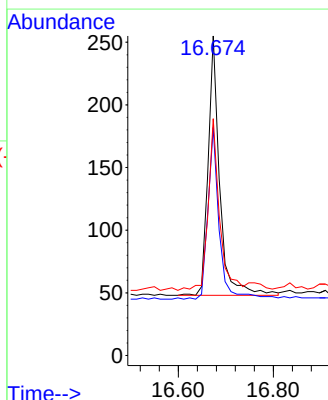
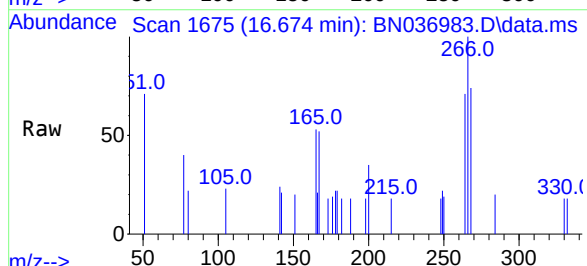
Tgt Ion:266 Resp: 352

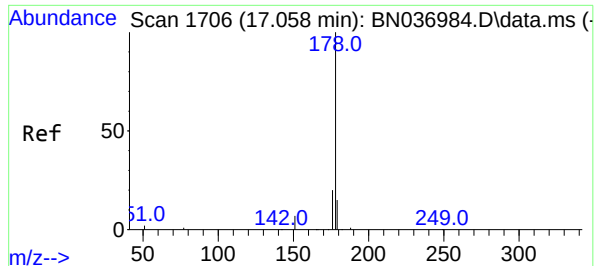
Ion Ratio Lower Upper

266 100

264 64.5 52.8 79.2

268 63.9 50.0 75.0

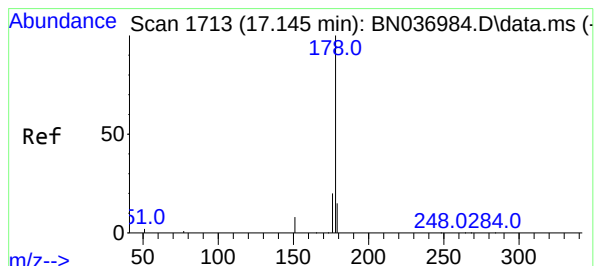
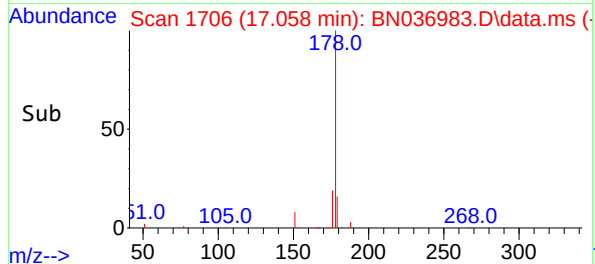
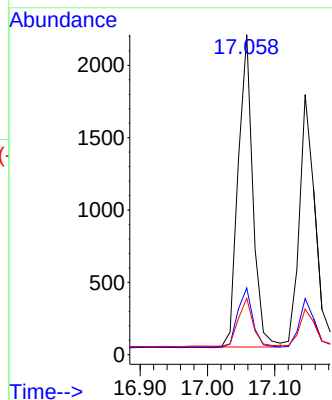
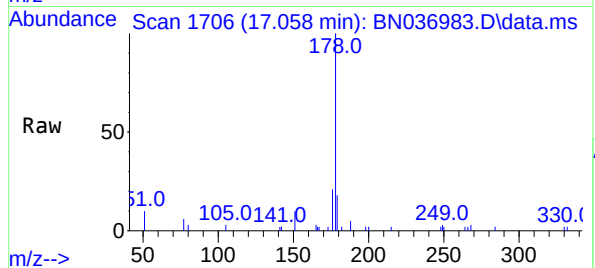




#25
Phenanthrene
Concen: 0.19 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN036983.D
Acq: 12 May 2025 14:19

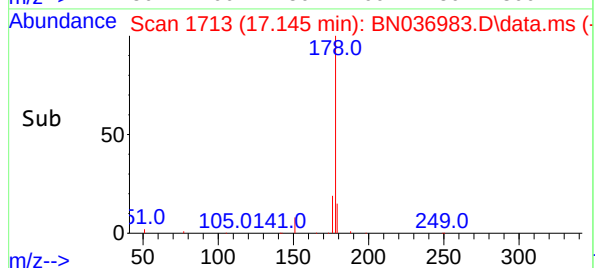
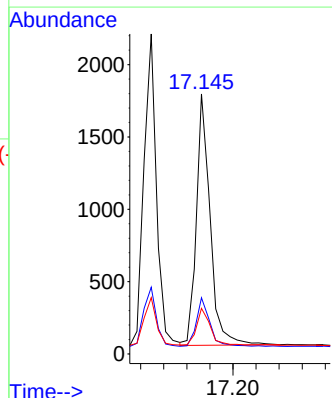
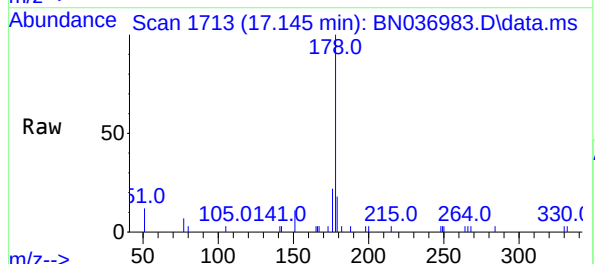
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

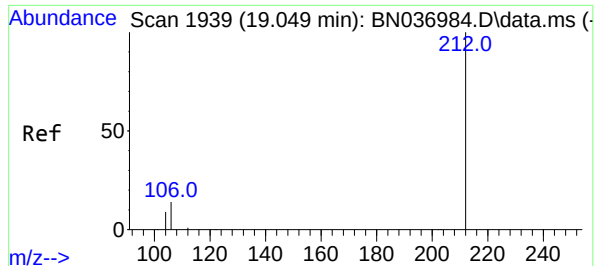
Tgt Ion:178 Resp: 3285
Ion Ratio Lower Upper
178 100
176 19.8 16.0 24.0
179 16.0 12.3 18.5



#26
Anthracene
Concen: 0.18 ng
RT: 17.145 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN036983.D
Acq: 12 May 2025 14:19

Tgt Ion:178 Resp: 2889
Ion Ratio Lower Upper
178 100
176 19.7 15.3 22.9
179 14.3 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.19 ng

RT: 19.054 min Scan# 1940

Delta R.T. 0.005 min

Lab File: BN036983.D

Acq: 12 May 2025 14:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

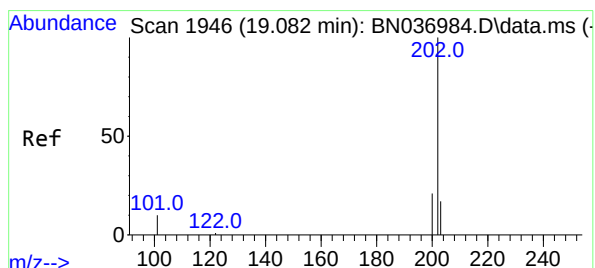
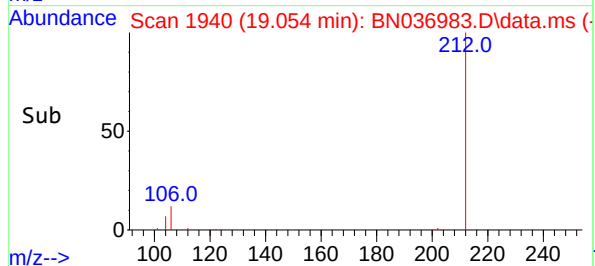
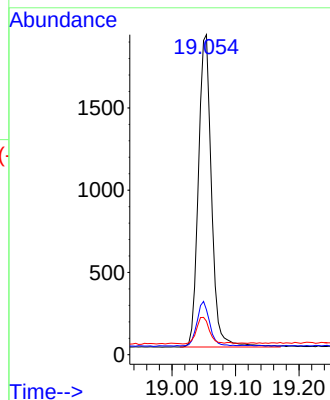
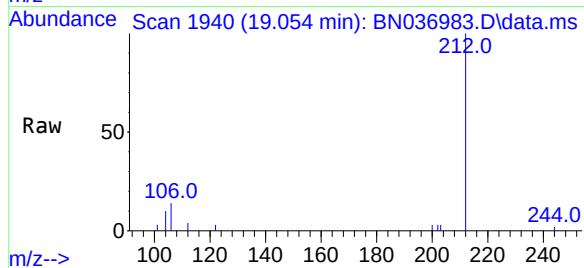
Tgt Ion:212 Resp: 2713

Ion Ratio Lower Upper

212 100

106 13.9 11.3 16.9

104 8.3 7.0 10.4



#28

Fluoranthene

Concen: 0.19 ng

RT: 19.082 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN036983.D

Acq: 12 May 2025 14:19

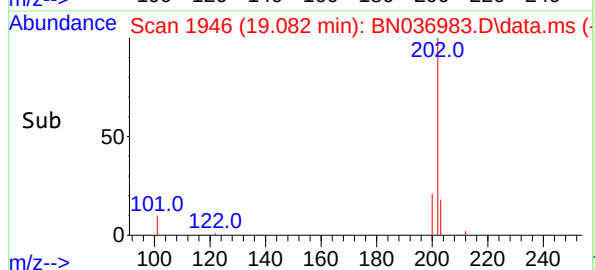
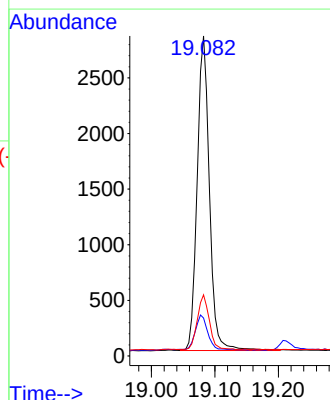
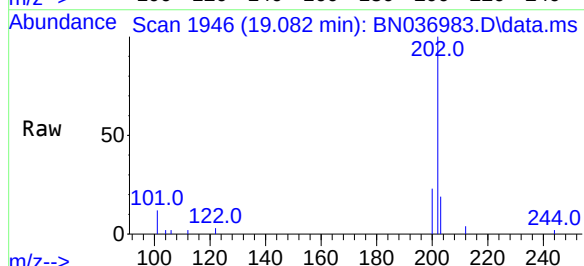
Tgt Ion:202 Resp: 3781

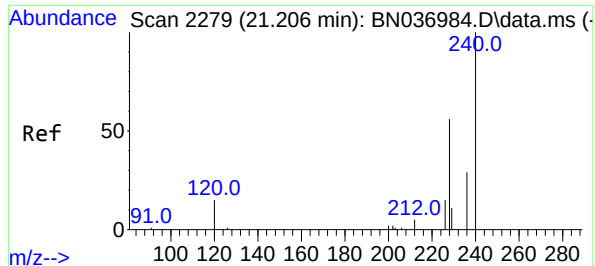
Ion Ratio Lower Upper

202 100

101 11.5 8.6 12.8

203 16.9 13.5 20.3





#29

Chrysene-d12

Concen: 0.40 ng

RT: 21.207 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036983.D

Acq: 12 May 2025 14:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

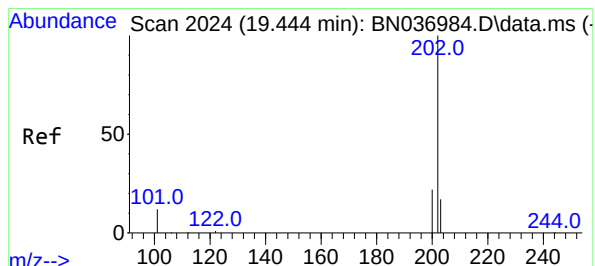
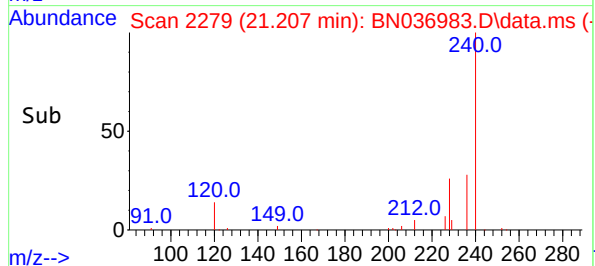
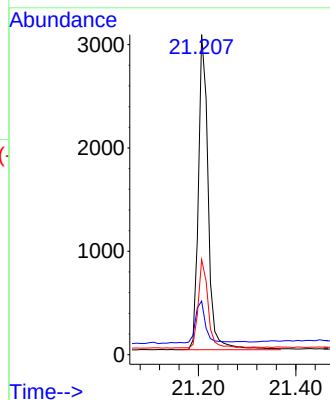
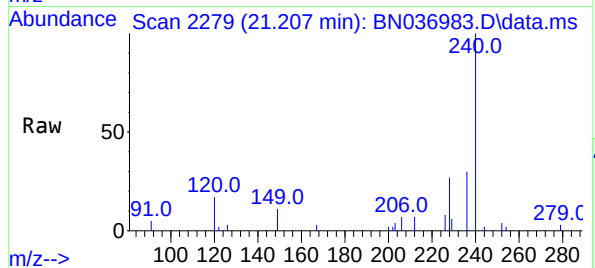
Tgt Ion:240 Resp: 4241

Ion Ratio Lower Upper

240 100

120 16.7 14.5 21.7

236 29.7 24.3 36.5



#30

Pyrene

Concen: 0.20 ng

RT: 19.444 min Scan# 2024

Delta R.T. 0.000 min

Lab File: BN036983.D

Acq: 12 May 2025 14:19

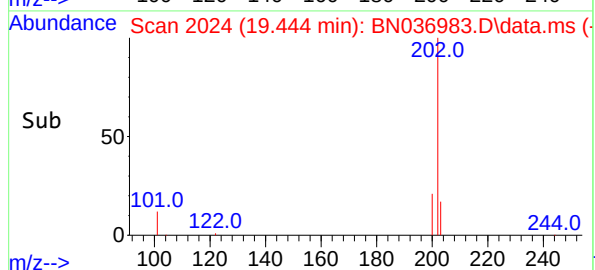
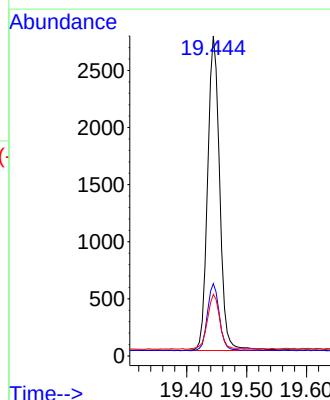
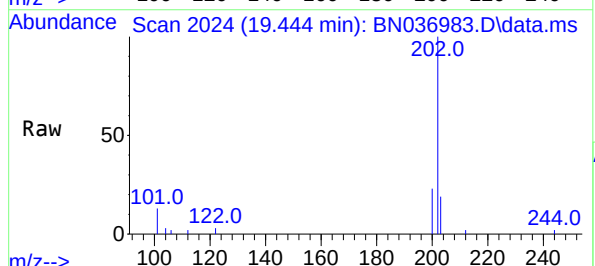
Tgt Ion:202 Resp: 3850

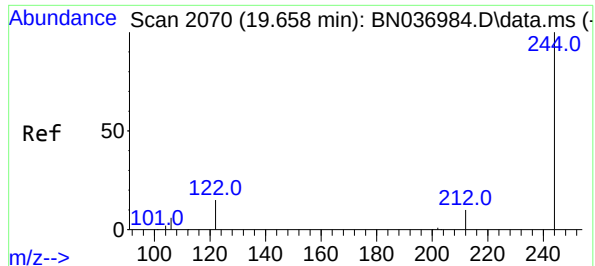
Ion Ratio Lower Upper

202 100

200 21.0 17.3 25.9

203 17.8 14.4 21.6

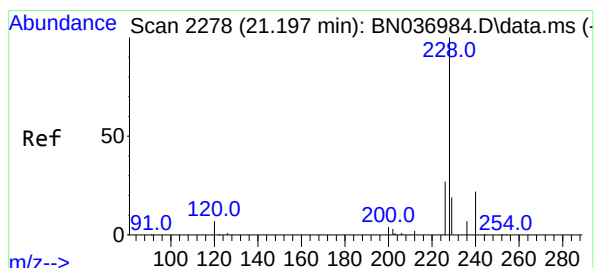
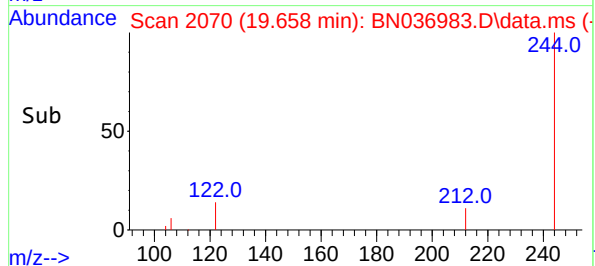
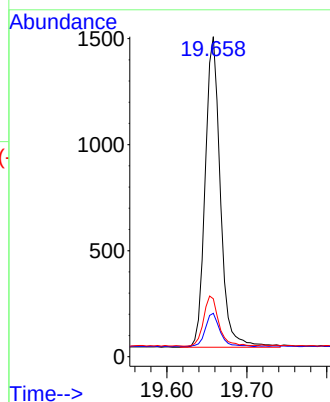
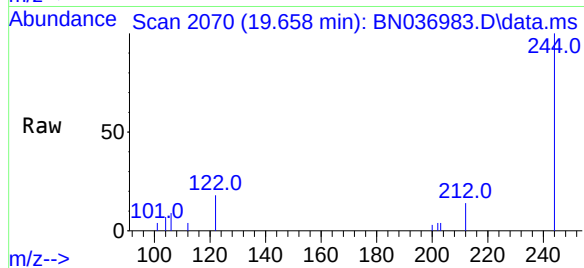




#31
Terphenyl-d14
Concen: 0.20 ng
RT: 19.658 min Scan# 2070
Delta R.T. 0.000 min
Lab File: BN036983.D
Acq: 12 May 2025 14:19

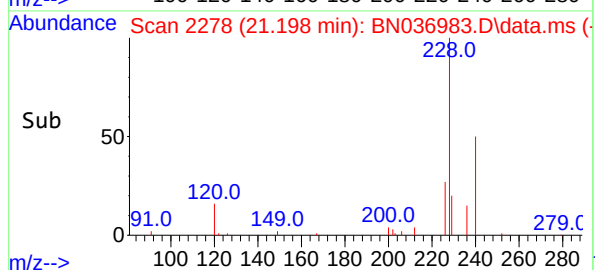
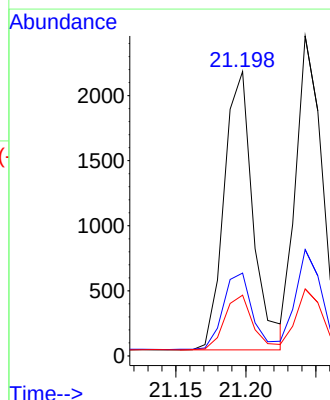
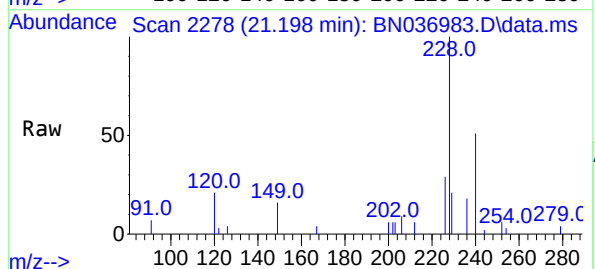
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

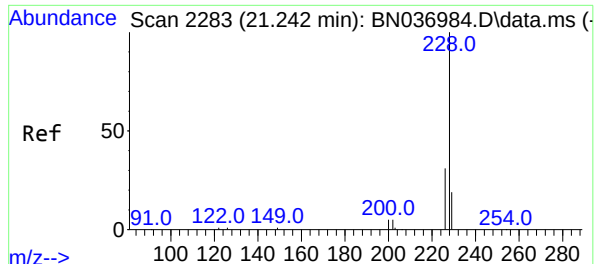
Tgt Ion	Ratio	Lower	Upper
244	100		
212	13.6	9.5	14.3
122	18.1	13.4	20.0



#32
Benzo(a)anthracene
Concen: 0.19 ng
RT: 21.198 min Scan# 2278
Delta R.T. 0.000 min
Lab File: BN036983.D
Acq: 12 May 2025 14:19

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.1	22.4	33.6
229	21.4	16.0	24.0





#33

Chrysene

Concen: 0.20 ng

RT: 21.242 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036983.D

Acq: 12 May 2025 14:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

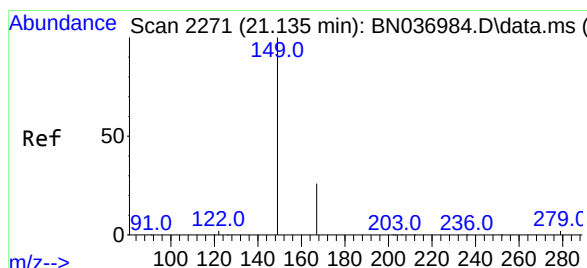
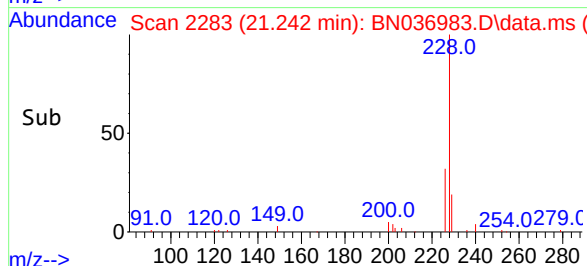
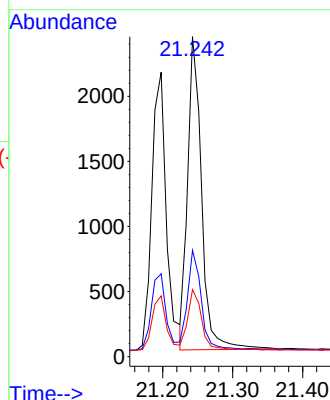
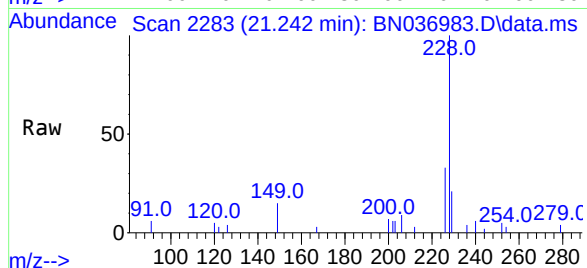
Tgt Ion:228 Resp: 3328

Ion Ratio Lower Upper

228 100

226 33.2 25.7 38.5

229 21.0 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.21 ng

RT: 21.135 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BN036983.D

Acq: 12 May 2025 14:19

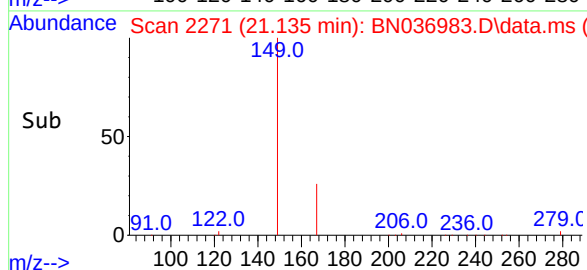
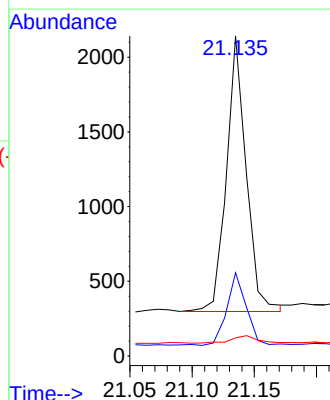
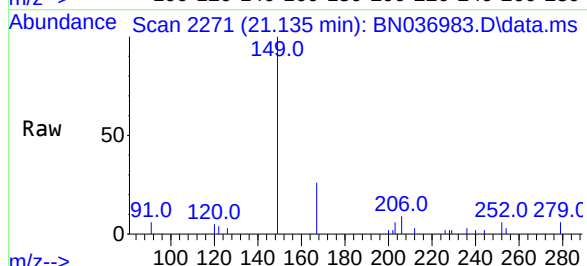
Tgt Ion:149 Resp: 2035

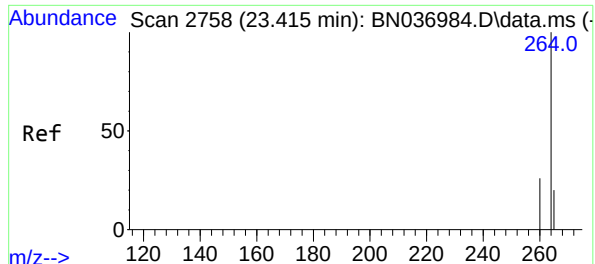
Ion Ratio Lower Upper

149 100

167 25.8 21.0 31.6

279 3.6 2.7 4.1

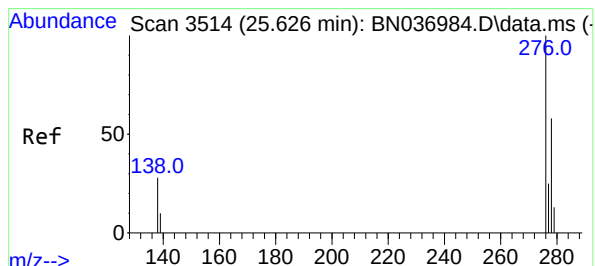
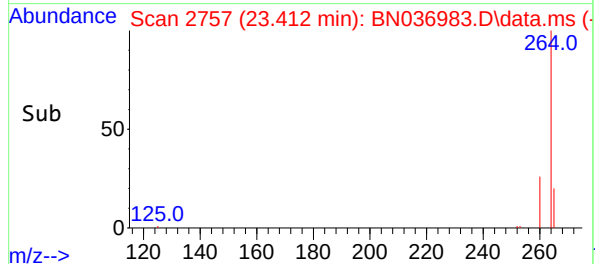
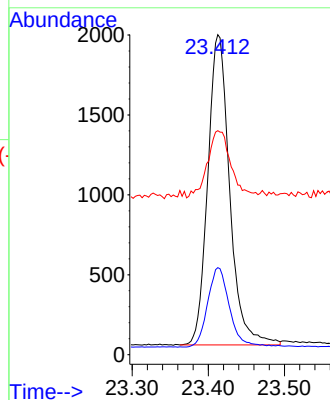
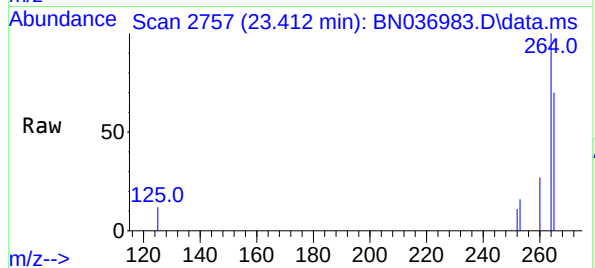




#35
Perylene-d12
Concen: 0.40 ng
RT: 23.412 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN036983.D
Acq: 12 May 2025 14:19

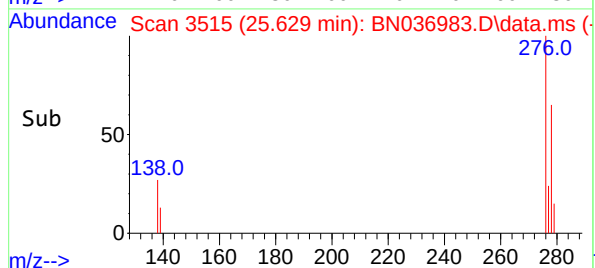
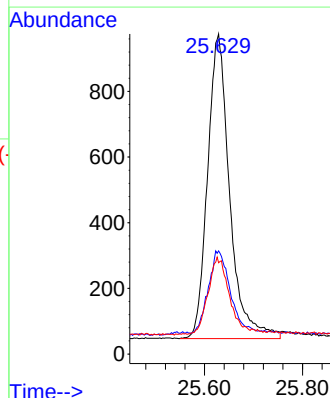
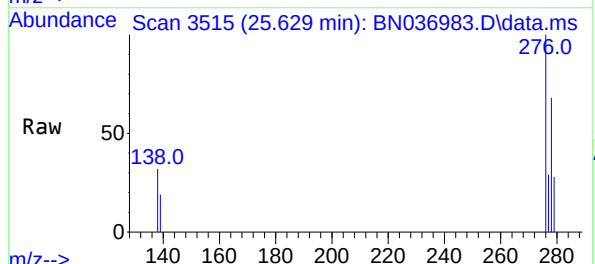
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

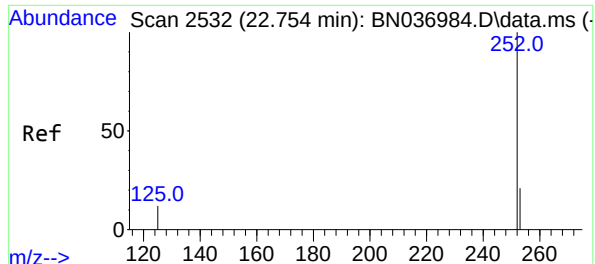
Tgt Ion:264 Resp: 3869
Ion Ratio Lower Upper
264 100
260 27.2 22.3 33.5
265 70.0 55.4 83.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.19 ng
RT: 25.629 min Scan# 3515
Delta R.T. 0.003 min
Lab File: BN036983.D
Acq: 12 May 2025 14:19

Tgt Ion:276 Resp: 2901
Ion Ratio Lower Upper
276 100
138 26.9 21.8 32.8
277 24.0 20.2 30.4





#37

Benzo(b)fluoranthene

Concen: 0.19 ng

RT: 22.752 min Scan# 2532

Delta R.T. -0.003 min

Lab File: BN036983.D

Acq: 12 May 2025 14:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

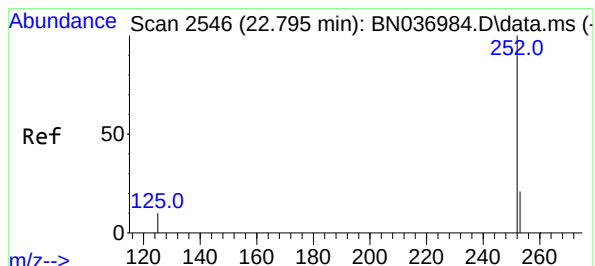
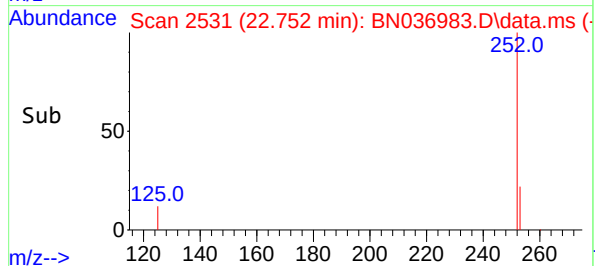
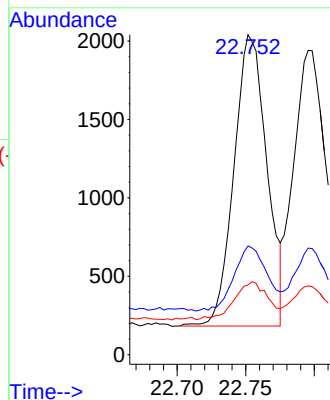
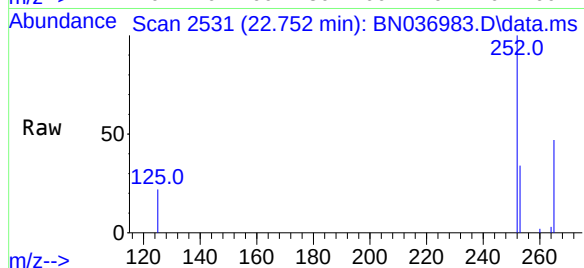
Tgt Ion:252 Resp: 3092

Ion Ratio Lower Upper

252 100

253 34.0 21.9 32.9#

125 21.8 13.8 20.8#



#38

Benzo(k)fluoranthene

Concen: 0.19 ng

RT: 22.796 min Scan# 2546

Delta R.T. 0.000 min

Lab File: BN036983.D

Acq: 12 May 2025 14:19

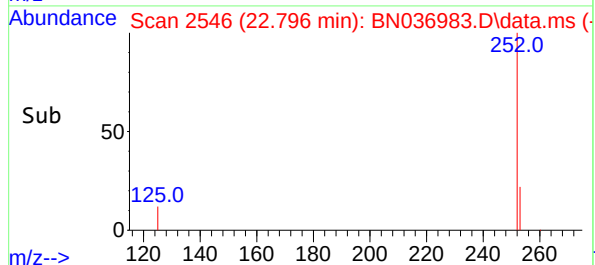
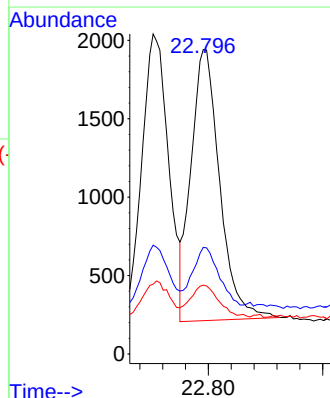
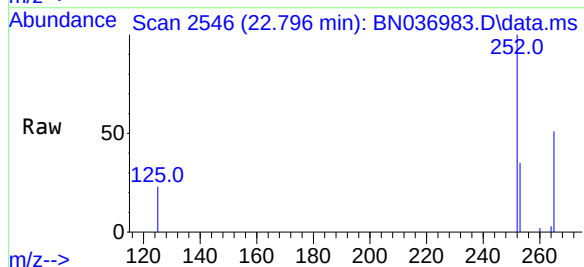
Tgt Ion:252 Resp: 3015

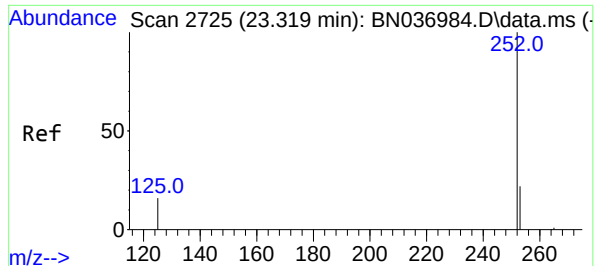
Ion Ratio Lower Upper

252 100

253 35.0 22.0 33.0#

125 22.6 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 0.18 ng

RT: 23.316 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036983.D

Acq: 12 May 2025 14:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

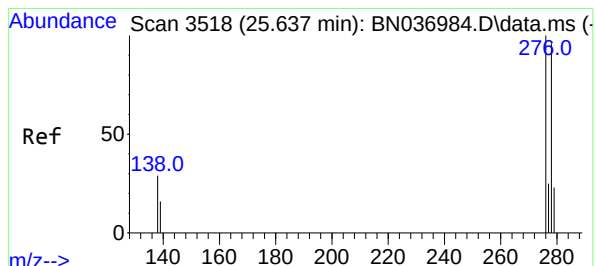
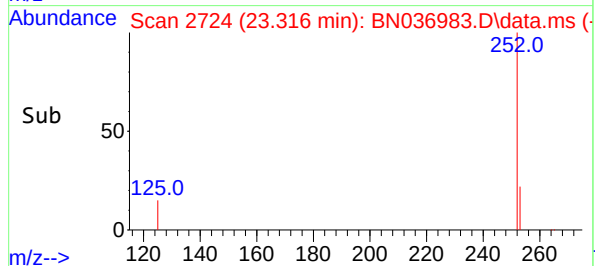
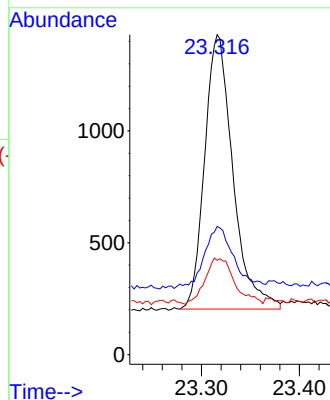
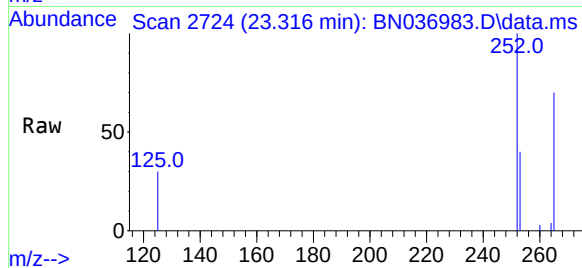
Tgt Ion:252 Resp: 2457

Ion Ratio Lower Upper

252 100

253 40.1 24.8 37.2#

125 29.5 18.6 28.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.18 ng

RT: 25.640 min Scan# 3519

Delta R.T. 0.003 min

Lab File: BN036983.D

Acq: 12 May 2025 14:19

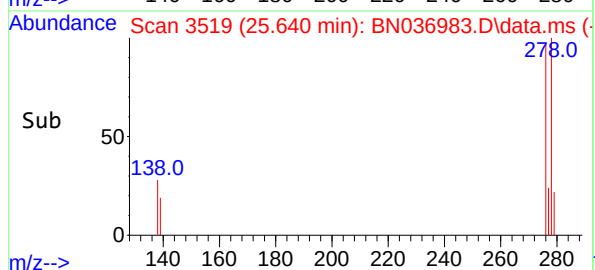
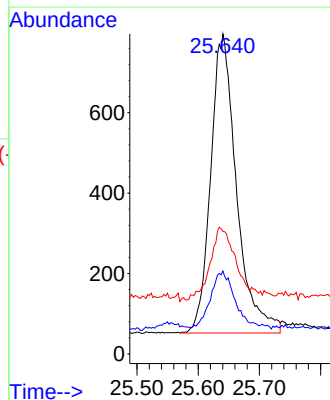
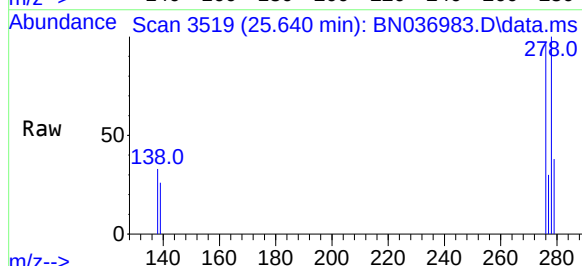
Tgt Ion:278 Resp: 2185

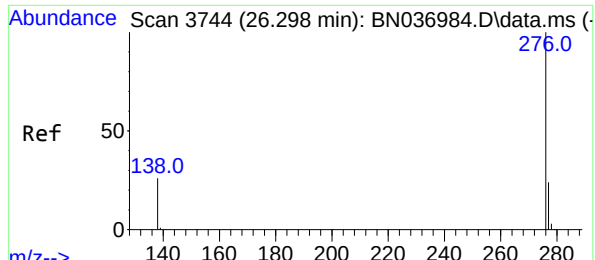
Ion Ratio Lower Upper

278 100

139 25.9 18.1 27.1

279 38.3 25.3 37.9#





#41

Benzo(g,h,i)perylene

Concen: 0.19 ng

RT: 26.295 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN036983.D

Acq: 12 May 2025 14:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

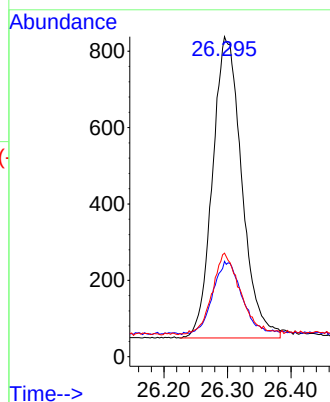
Tgt Ion:276 Resp: 2521

Ion Ratio Lower Upper

276 100

277 29.8 21.2 31.8

138 32.3 22.6 33.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051225\
 Data File : BN036984.D
 Acq On : 12 May 2025 14:55
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: May 12 17:52:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 12 17:44:09 2025
 Response via : Initial Calibration

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

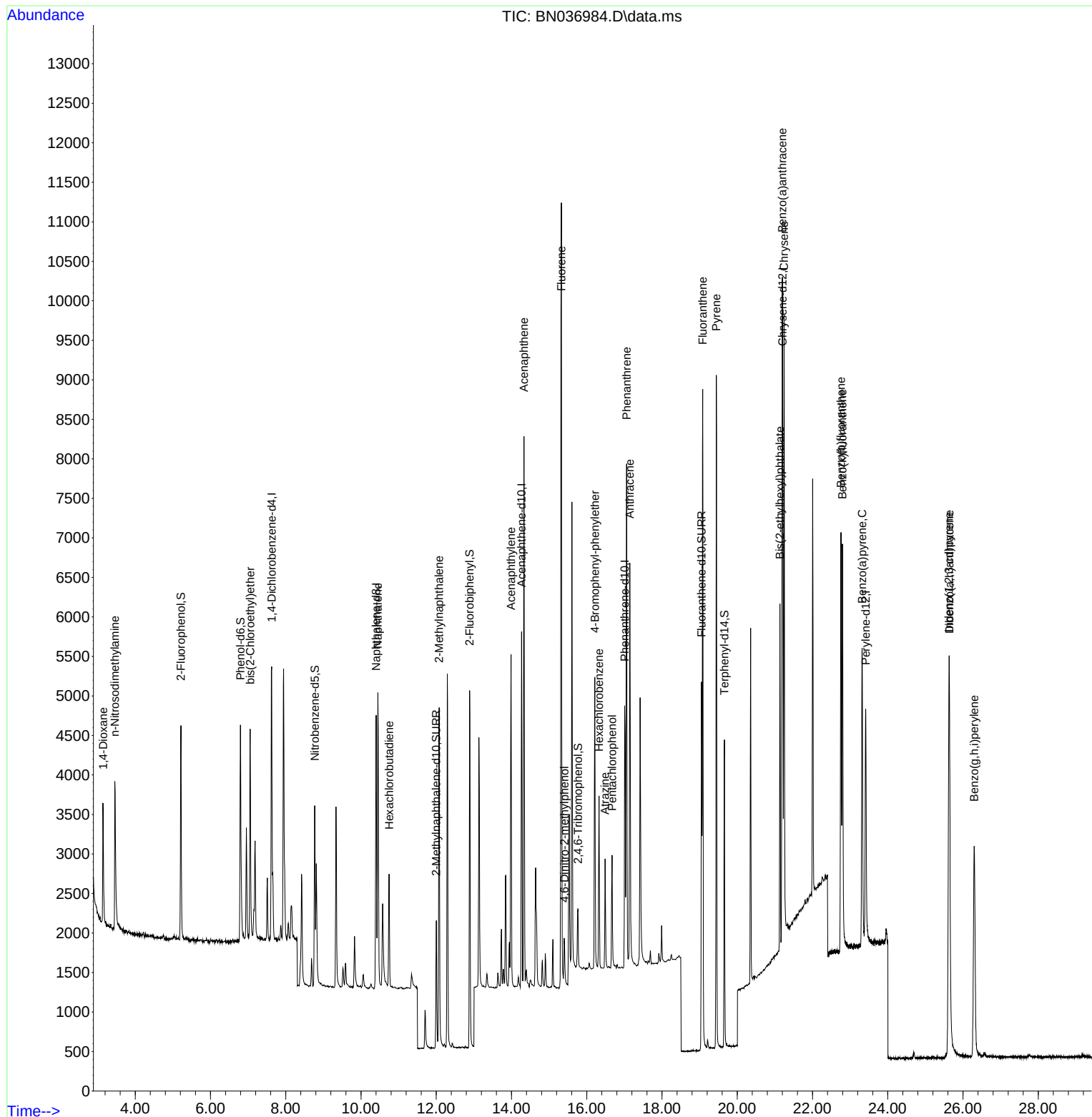
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.625	152	1695	0.40	ng	0.00
7) Naphthalene-d8	10.404	136	4298	0.40	ng	0.00
13) Acenaphthene-d10	14.267	164	2373	0.40	ng	0.00
19) Phenanthrene-d10	17.009	188	4906	0.40	ng	0.00
29) Chrysene-d12	21.206	240	4184	0.40	ng	0.00
35) Perylene-d12	23.415	264	3988	0.40	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	1902	0.44	ng	0.00
5) Phenol-d6	6.795	99	2256	0.43	ng	0.00
8) Nitrobenzene-d5	8.771	82	1801	0.40	ng	0.00
11) 2-Methylnaphthalene-d10	12.001	152	2331	0.39	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	440	0.40	ng	0.00
15) 2-Fluorobiphenyl	12.888	172	4636	0.42	ng	0.00
27) Fluoranthene-d10	19.049	212	5212	0.39	ng	0.00
31) Terphenyl-d14	19.658	244	3747	0.40	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.148	88	920	0.42	ng	100
3) n-Nitrosodimethylamine	3.458	42	1837	0.41	ng	100
6) bis(2-Chloroethyl)ether	7.055	93	1953	0.40	ng	100
9) Naphthalene	10.447	128	4974	0.40	ng	100
10) Hexachlorobutadiene	10.746	225	1087	0.41	ng	# 100
12) 2-Methylnaphthalene	12.077	142	3145	0.39	ng	100
16) Acenaphthylene	13.989	152	4501	0.39	ng	100
17) Acenaphthene	14.331	154	3015	0.40	ng	100
18) Fluorene	15.325	166	4051	0.40	ng	100
20) 4,6-Dinitro-2-methylph...	15.410	198	462	0.37	ng	100
21) 4-Bromophenyl-phenylether	16.214	248	1240	0.39	ng	100
22) Hexachlorobenzene	16.326	284	1367	0.40	ng	100
23) Atrazine	16.487	200	1087	0.39	ng	100
24) Pentachlorophenol	16.673	266	688	0.36	ng	100
25) Phenanthrene	17.058	178	6311	0.39	ng	100
26) Anthracene	17.145	178	5618	0.38	ng	100
28) Fluoranthene	19.082	202	7368	0.39	ng	100
30) Pyrene	19.444	202	7455	0.39	ng	100
32) Benzo(a)anthracene	21.197	228	6209	0.39	ng	100
33) Chrysene	21.242	228	6744	0.40	ng	100
34) Bis(2-ethylhexyl)phtha...	21.135	149	3799	0.39	ng	100
36) Indeno(1,2,3-cd)pyrene	25.626	276	6246	0.40	ng	100
37) Benzo(b)fluoranthene	22.754	252	6319	0.38	ng	100
38) Benzo(k)fluoranthene	22.795	252	6491	0.39	ng	100
39) Benzo(a)pyrene	23.319	252	5404	0.39	ng	100
40) Dibenzo(a,h)anthracene	25.637	278	4920	0.40	ng	100
41) Benzo(g,h,i)perylene	26.298	276	5478	0.40	ng	100

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

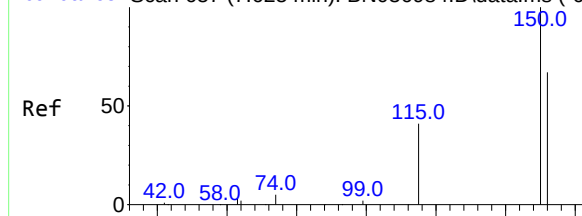
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051225\
Data File : BN036984.D
Acq On : 12 May 2025 14:55
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: May 12 17:52:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 12 17:44:09 2025
Response via : Initial Calibration



Abundance Scan 657 (7.625 min): BN036984.D\data.ms (-64)



#1

1,4-Dichlorobenzene-d4

Concen: 0.40 ng

RT: 7.625 min Scan# 61

Delta R.T. 0.000 min

Lab File: BN036984.D

Acq: 12 May 2025 14:55

Instrument :

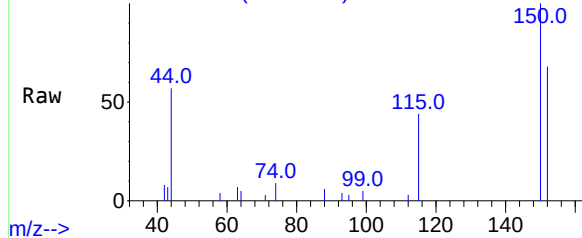
BNA_N

ClientSampleId :

SSTDICCC0.4

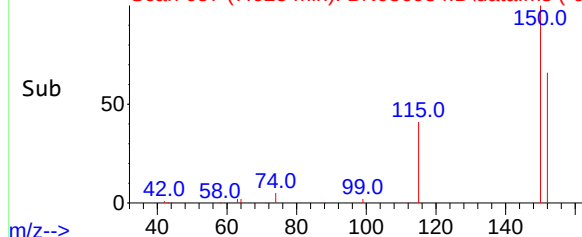
m/z-->

Abundance Scan 657 (7.625 min): BN036984.D\data.ms



m/z-->

Abundance Scan 657 (7.625 min): BN036984.D\data.ms (-62)



m/z-->

Tgt Ion:152 Resp: 1695

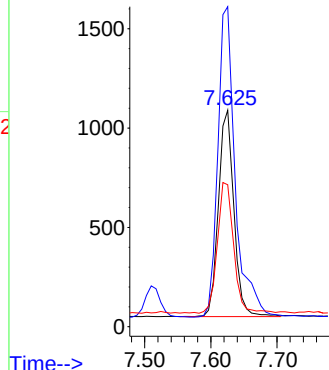
Ion Ratio Lower Upper

152 100

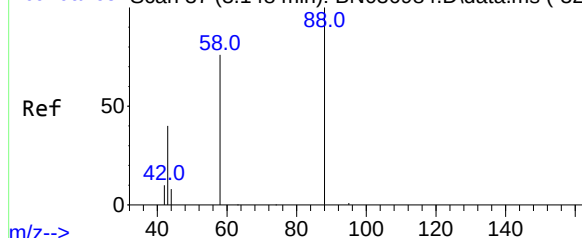
150 147.8 118.2 177.4

115 65.6 52.5 78.7

Abundance

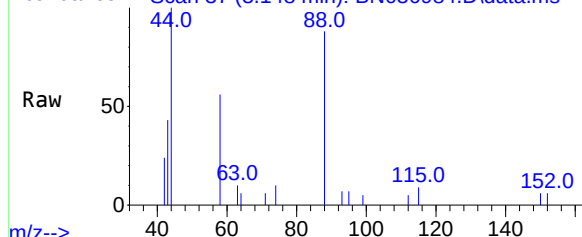


Abundance Scan 37 (3.148 min): BN036984.D\data.ms (-32)



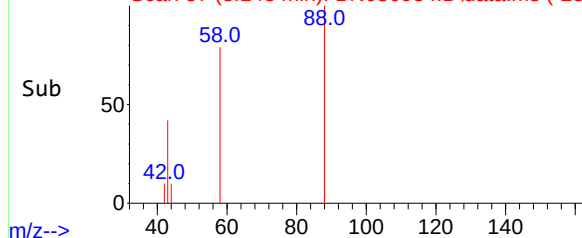
m/z-->

Abundance Scan 37 (3.148 min): BN036984.D\data.ms



m/z-->

Abundance Scan 37 (3.148 min): BN036984.D\data.ms (-23)



m/z-->

#2

1,4-Dioxane

Concen: 0.42 ng

RT: 3.148 min Scan# 37

Delta R.T. 0.000 min

Lab File: BN036984.D

Acq: 12 May 2025 14:55

Tgt Ion: 88 Resp: 920

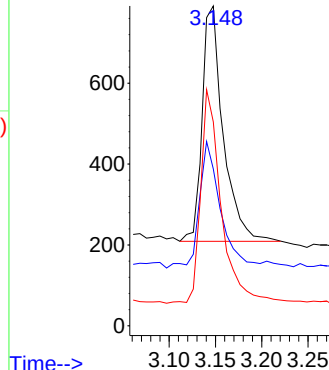
Ion Ratio Lower Upper

88 100

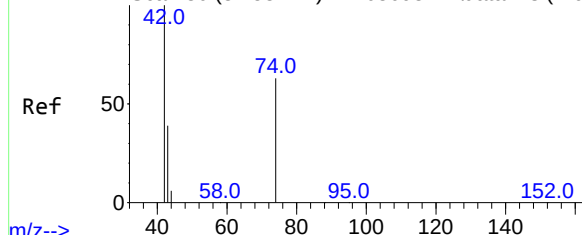
43 54.1 43.3 64.9

58 88.4 70.7 106.1

Abundance

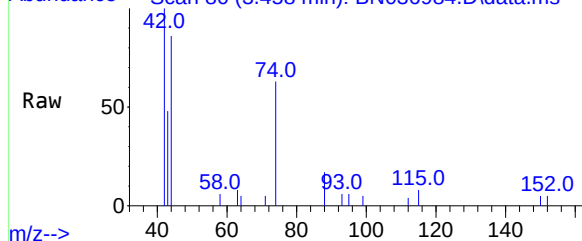


Abundance Scan 80 (3.458 min): BN036984.D\data.ms (-76)



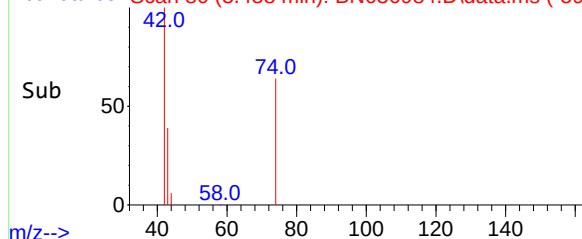
m/z-->

Abundance Scan 80 (3.458 min): BN036984.D\data.ms



m/z-->

Abundance Scan 80 (3.458 min): BN036984.D\data.ms (-59)



m/z-->

#3

n-Nitrosodimethylamine

Concen: 0.41 ng

RT: 3.458 min Scan# 80

Delta R.T. 0.000 min

Lab File: BN036984.D

Acq: 12 May 2025 14:55

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

Tgt Ion: 42 Resp: 1837

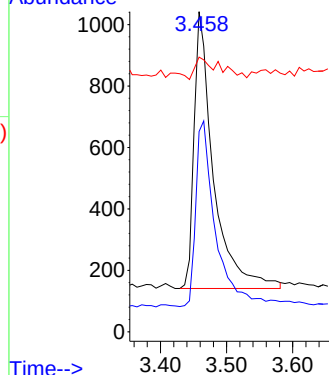
Ion Ratio Lower Upper

42 100

74 69.0 55.2 82.8

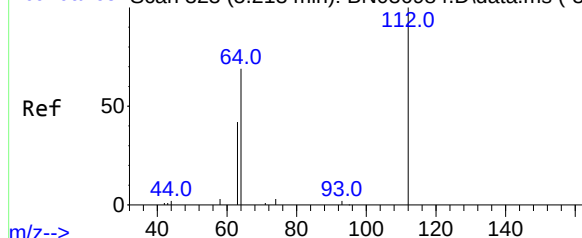
44 5.9 4.7 7.1

Abundance



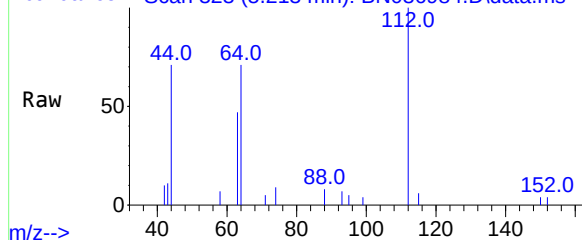
Time-->

Abundance Scan 323 (5.213 min): BN036984.D\data.ms (-31)



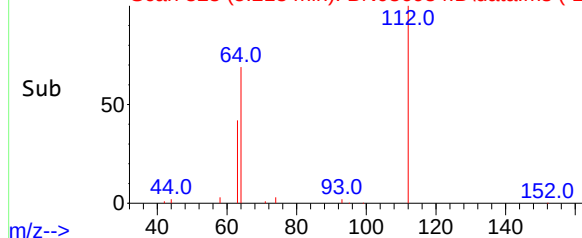
m/z-->

Abundance Scan 323 (5.213 min): BN036984.D\data.ms



m/z-->

Abundance Scan 323 (5.213 min): BN036984.D\data.ms (-29)



m/z-->

#4

2-Fluorophenol

Concen: 0.44 ng

RT: 5.213 min Scan# 323

Delta R.T. 0.000 min

Lab File: BN036984.D

Acq: 12 May 2025 14:55

Tgt Ion: 112 Resp: 1902

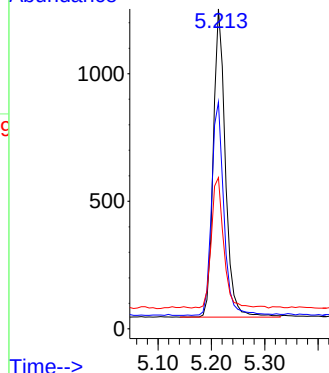
Ion Ratio Lower Upper

112 100

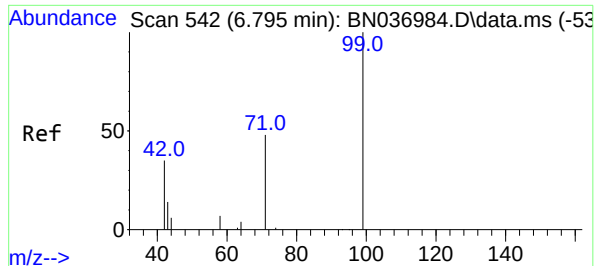
64 70.2 56.2 84.2

63 42.9 34.3 51.5

Abundance



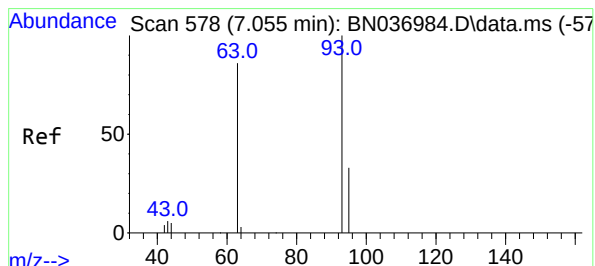
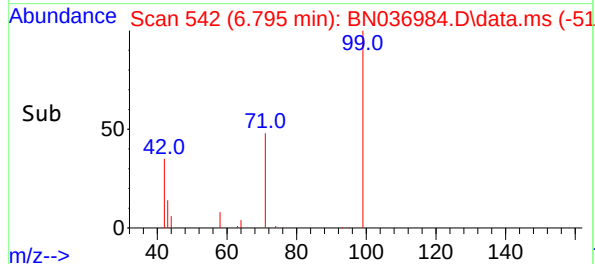
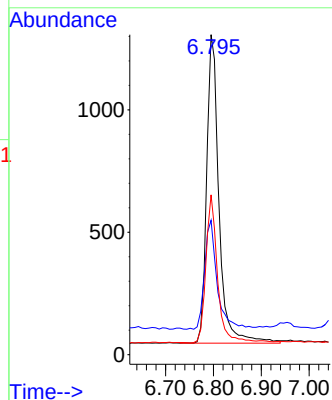
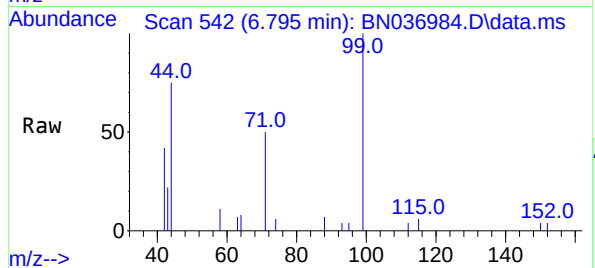
Time-->



#5
Phenol-d6
Concen: 0.43 ng
RT: 6.795 min Scan# 542
Delta R.T. 0.000 min
Lab File: BN036984.D
Acq: 12 May 2025 14:55

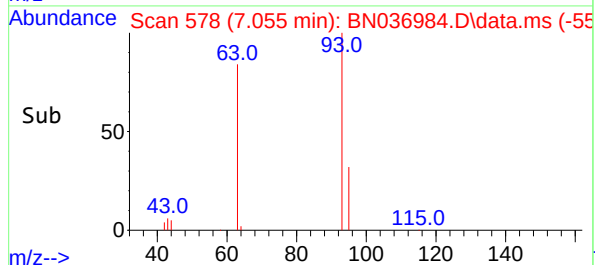
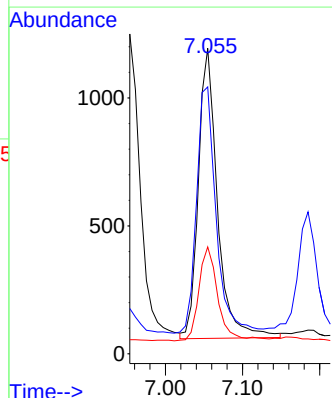
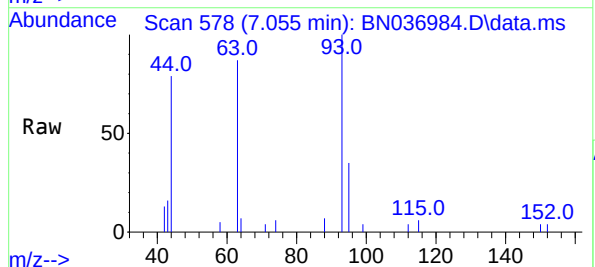
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

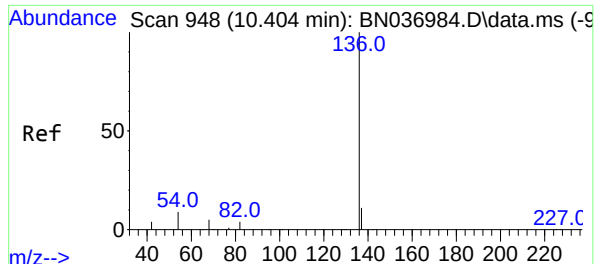
Tgt Ion: 99 Resp: 2256
Ion Ratio Lower Upper
99 100
42 36.3 29.0 43.6
71 45.2 36.2 54.2



#6
bis(2-Chloroethyl)ether
Concen: 0.40 ng
RT: 7.055 min Scan# 578
Delta R.T. 0.000 min
Lab File: BN036984.D
Acq: 12 May 2025 14:55

Tgt Ion: 93 Resp: 1953
Ion Ratio Lower Upper
93 100
63 87.0 69.6 104.4
95 31.4 25.1 37.7

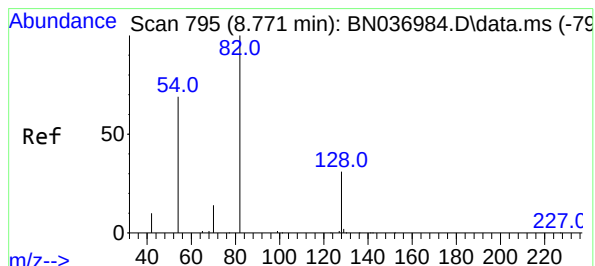
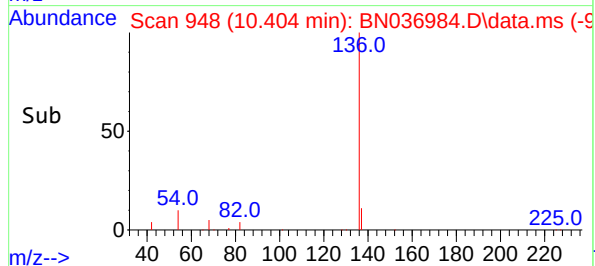
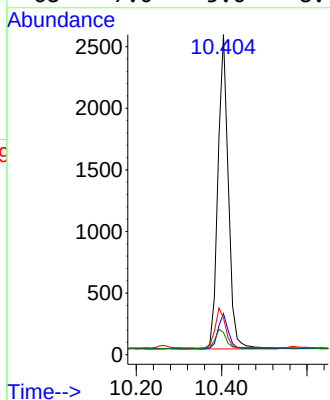
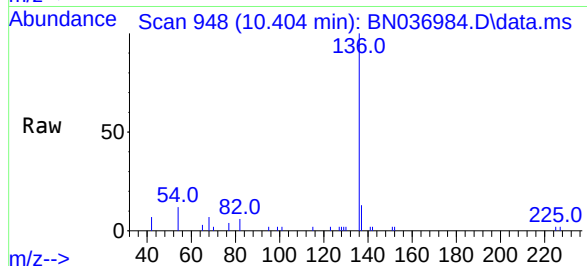




#7
Naphthalene-d8
Concen: 0.40 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN036984.D
Acq: 12 May 2025 14:55

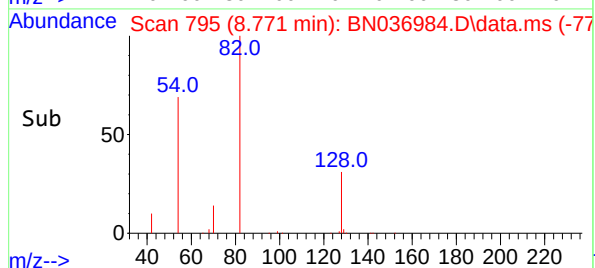
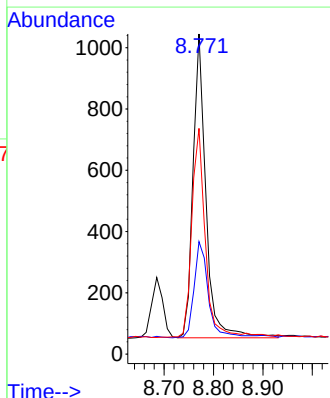
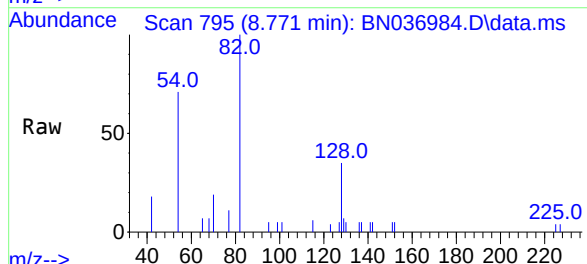
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

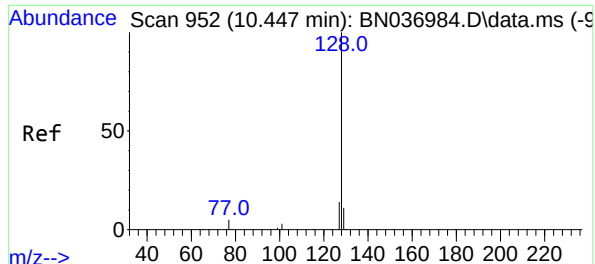
Tgt Ion:	136	Resp:	4298
Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.3	15.5
54	11.5	9.2	13.8
68	7.0	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.40 ng
RT: 8.771 min Scan# 795
Delta R.T. 0.000 min
Lab File: BN036984.D
Acq: 12 May 2025 14:55

Tgt Ion:	82	Resp:	1801
Ion	Ratio	Lower	Upper
82	100		
128	35.1	28.1	42.1
54	70.5	56.4	84.6

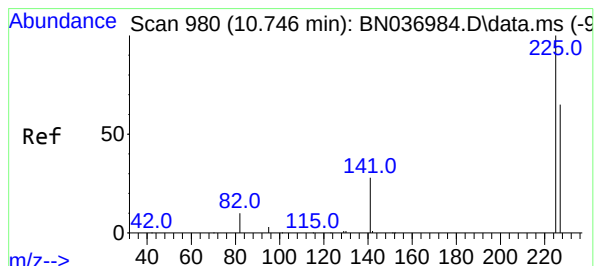
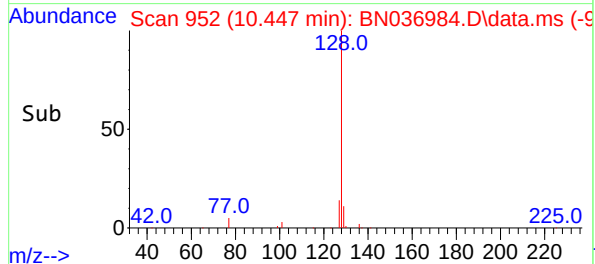
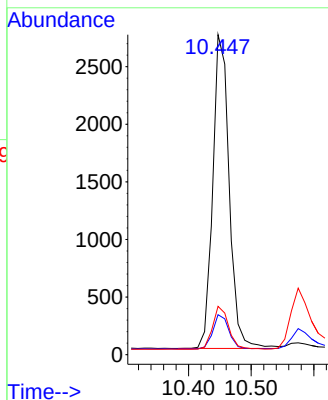
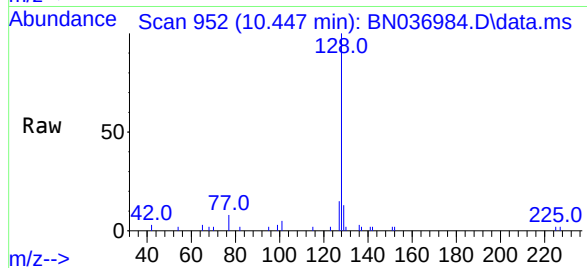




#9
Naphthalene
Concen: 0.40 ng
RT: 10.447 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036984.D
Acq: 12 May 2025 14:55

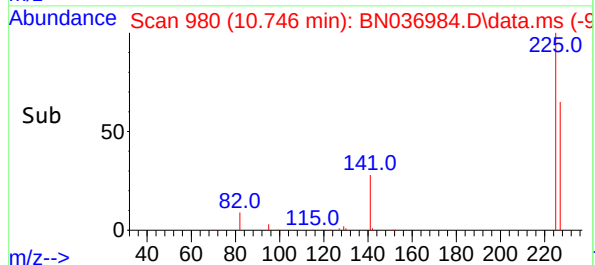
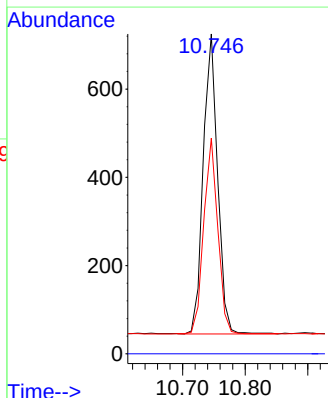
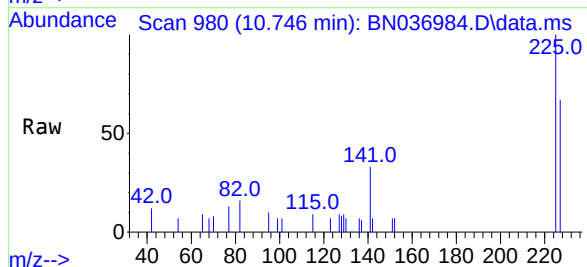
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

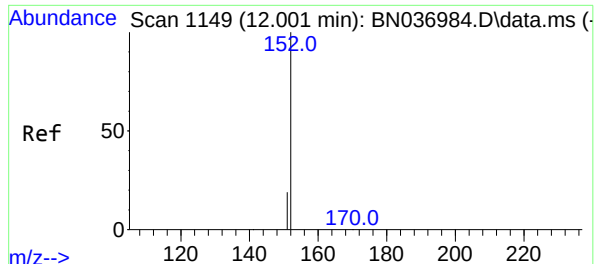
Tgt Ion:128 Resp: 4974
Ion Ratio Lower Upper
128 100
129 12.5 10.0 15.0
127 15.1 12.1 18.1



#10
Hexachlorobutadiene
Concen: 0.41 ng
RT: 10.746 min Scan# 980
Delta R.T. 0.000 min
Lab File: BN036984.D
Acq: 12 May 2025 14:55

Tgt Ion:225 Resp: 1087
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 51.2 76.8

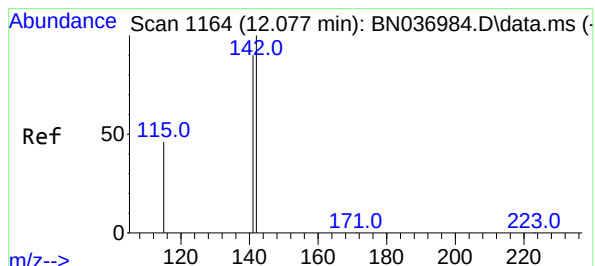
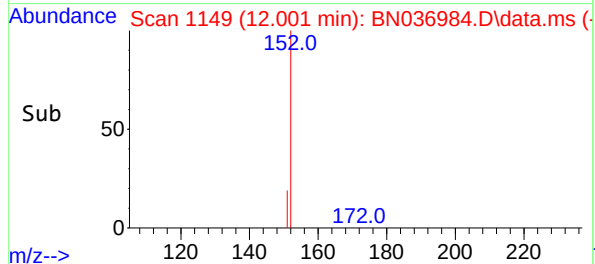
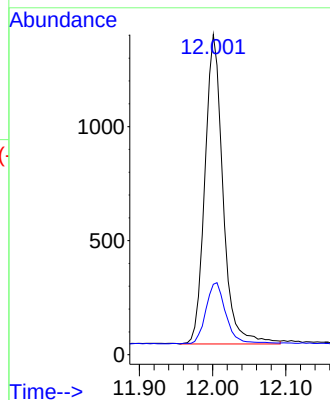
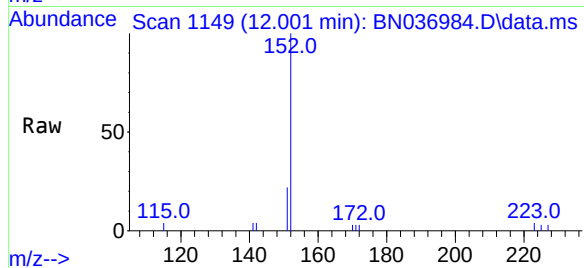




#11
2-Methylnaphthalene-d10
Concen: 0.39 ng
RT: 12.001 min Scan# 1149
Delta R.T. 0.000 min
Lab File: BN036984.D
Acq: 12 May 2025 14:55

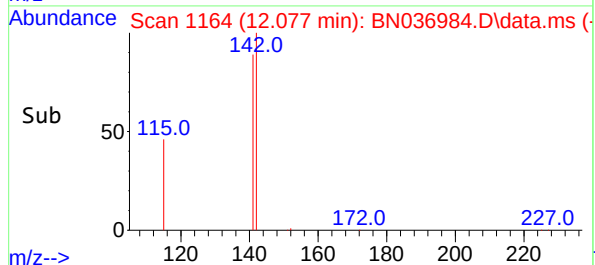
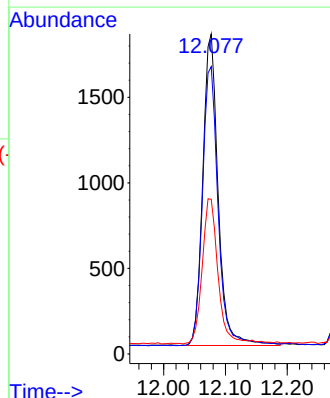
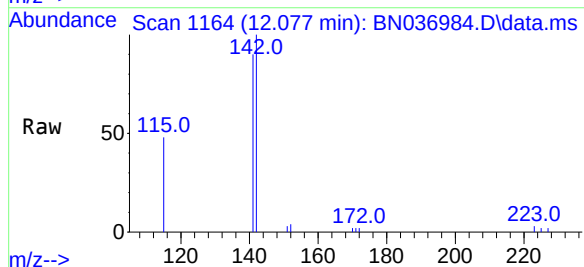
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

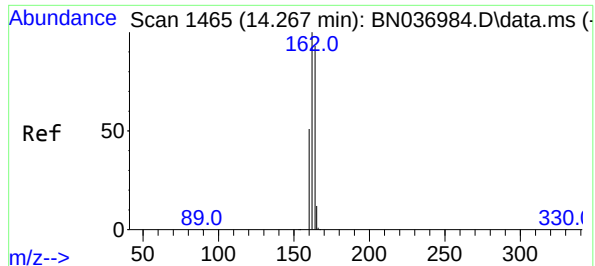
Tgt Ion:152 Resp: 2331
Ion Ratio Lower Upper
152 100
151 21.8 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.39 ng
RT: 12.077 min Scan# 1164
Delta R.T. 0.000 min
Lab File: BN036984.D
Acq: 12 May 2025 14:55

Tgt Ion:142 Resp: 3145
Ion Ratio Lower Upper
142 100
141 89.8 71.8 107.8
115 48.3 38.6 58.0

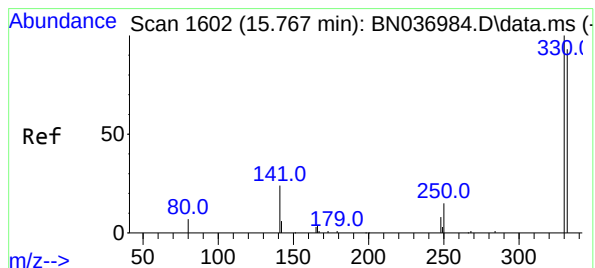
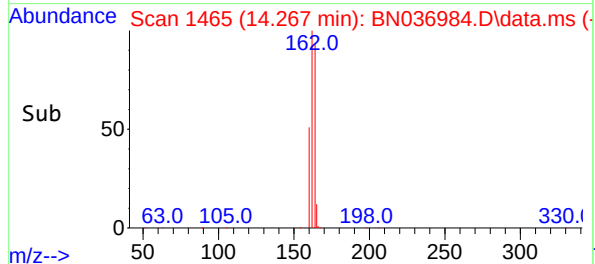
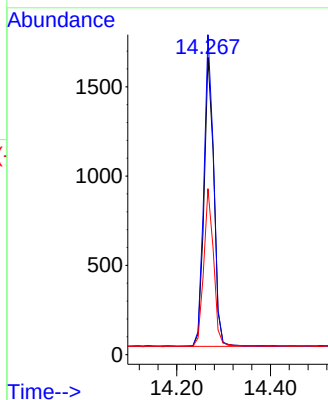
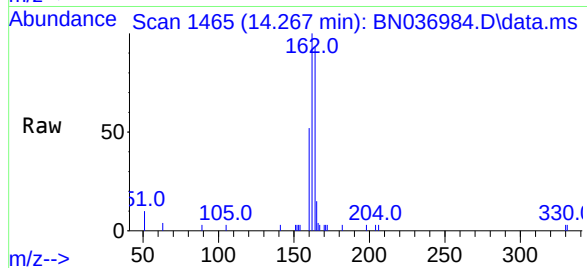




#13
Acenaphthene-d10
Concen: 0.40 ng
RT: 14.267 min Scan# 1465
Delta R.T. 0.000 min
Lab File: BN036984.D
Acq: 12 May 2025 14:55

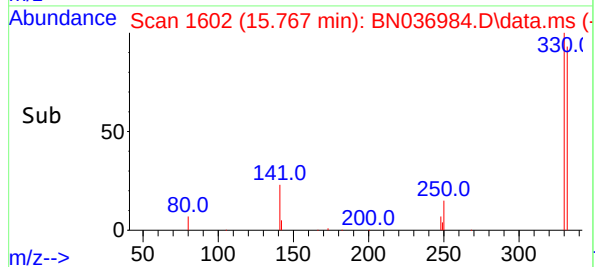
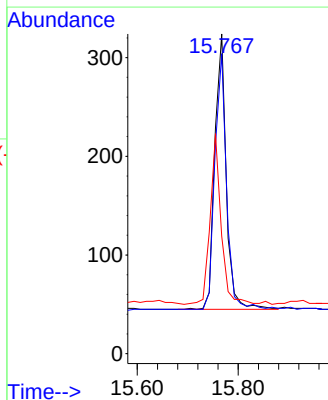
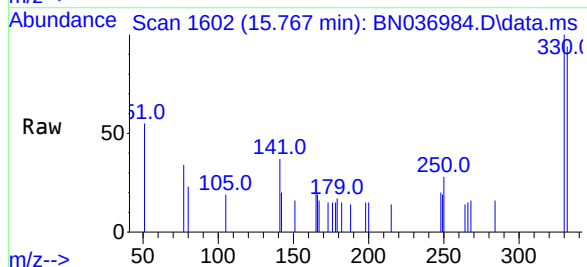
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

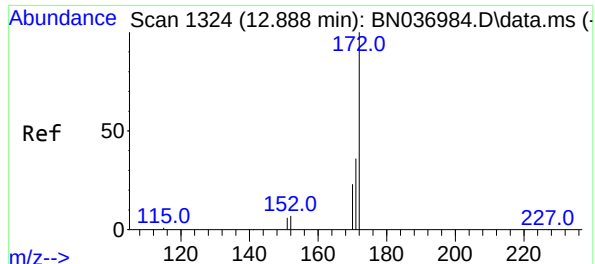
Tgt Ion:164 Resp: 2373
Ion Ratio Lower Upper
164 100
162 107.6 86.1 129.1
160 55.8 44.6 67.0



#14
2,4,6-Tribromophenol
Concen: 0.40 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN036984.D
Acq: 12 May 2025 14:55

Tgt Ion:330 Resp: 440
Ion Ratio Lower Upper
330 100
332 95.0 75.6 113.4
141 59.3 47.4 71.2

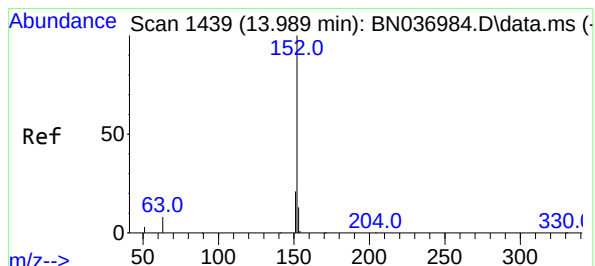
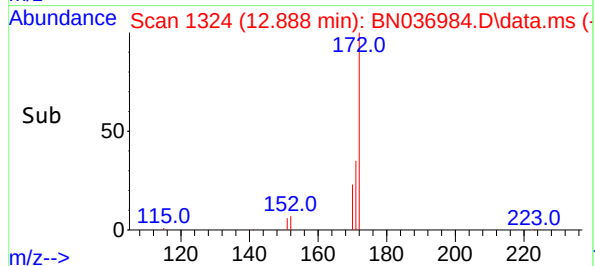
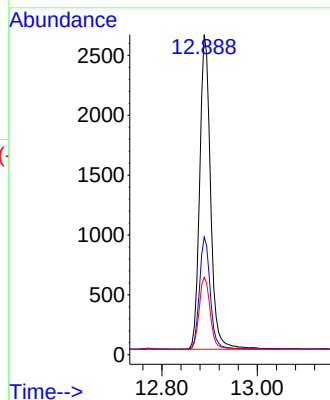
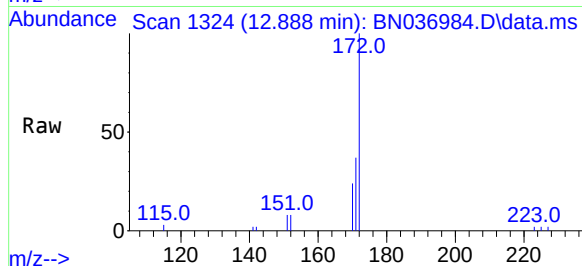




#15
2-Fluorobiphenyl
Concen: 0.42 ng
RT: 12.888 min Scan# 1324
Delta R.T. 0.000 min
Lab File: BN036984.D
Acq: 12 May 2025 14:55

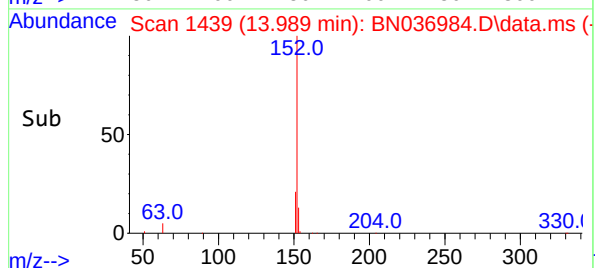
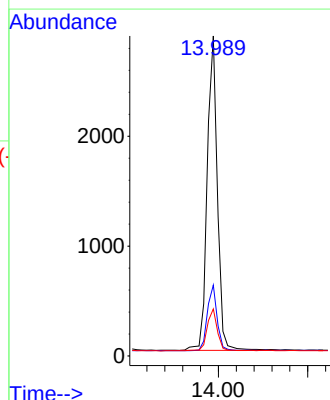
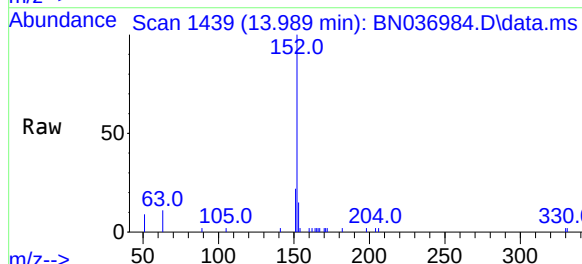
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

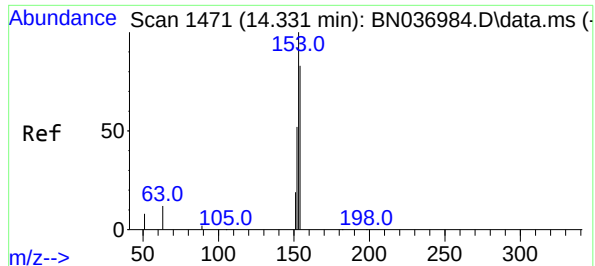
Tgt Ion:	172	Resp:	4636
Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.4	44.2
170	24.2	19.4	29.0



#16
Acenaphthylene
Concen: 0.39 ng
RT: 13.989 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN036984.D
Acq: 12 May 2025 14:55

Tgt Ion:	152	Resp:	4501
Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4
153	13.6	10.9	16.3





#17

Acenaphthene

Concen: 0.40 ng

RT: 14.331 min Scan# 1471

Delta R.T. 0.000 min

Lab File: BN036984.D

Acq: 12 May 2025 14:55

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

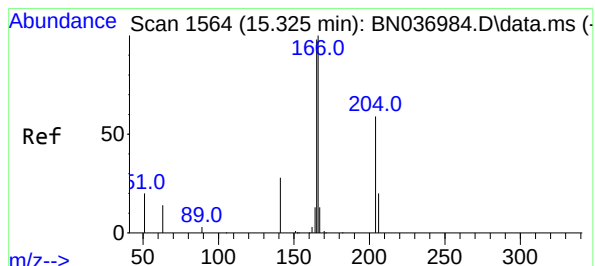
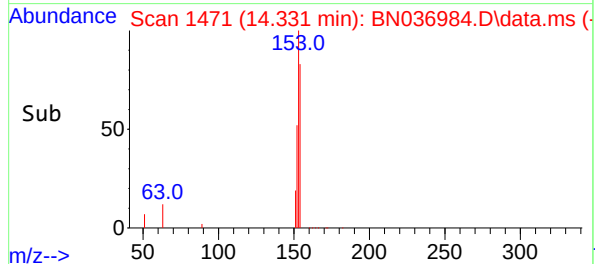
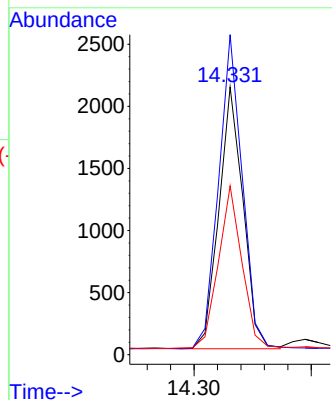
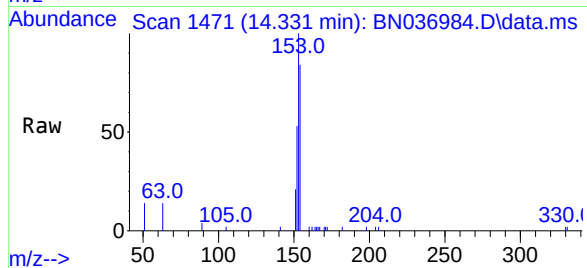
Tgt Ion:154 Resp: 3015

Ion Ratio Lower Upper

154 100

153 118.3 94.6 142.0

152 61.8 49.4 74.2



#18

Fluorene

Concen: 0.40 ng

RT: 15.325 min Scan# 1564

Delta R.T. 0.000 min

Lab File: BN036984.D

Acq: 12 May 2025 14:55

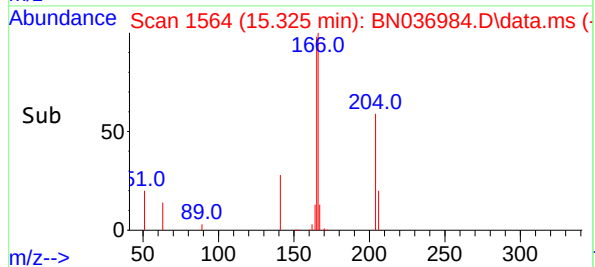
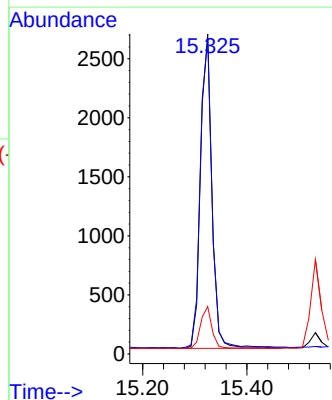
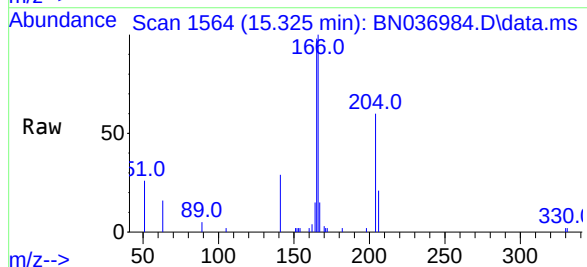
Tgt Ion:166 Resp: 4051

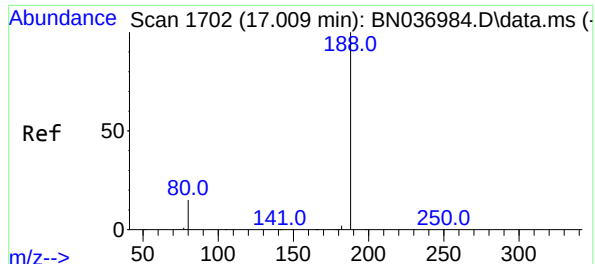
Ion Ratio Lower Upper

166 100

165 101.2 81.0 121.4

167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.40 ng

RT: 17.009 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN036984.D

Acq: 12 May 2025 14:55

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

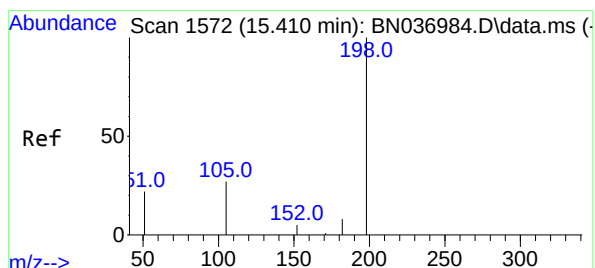
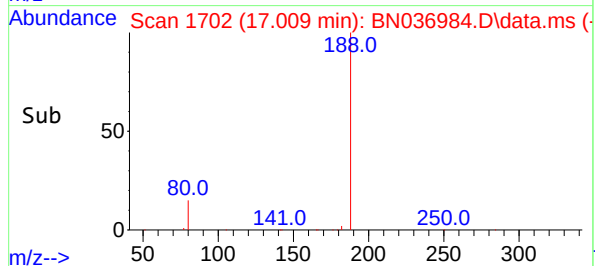
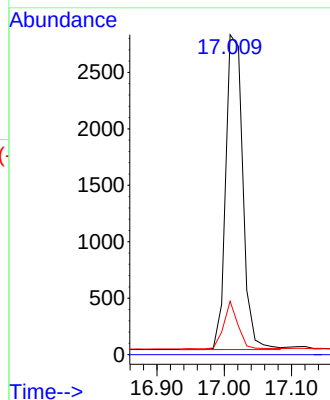
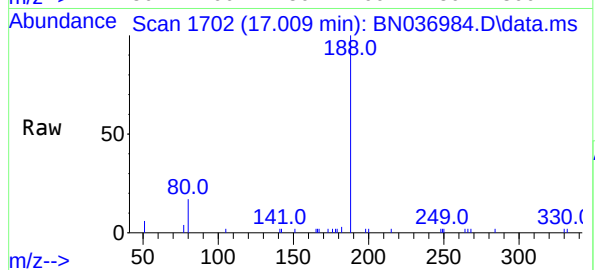
Tgt Ion:188 Resp: 4906

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.7 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.37 ng

RT: 15.410 min Scan# 1572

Delta R.T. 0.000 min

Lab File: BN036984.D

Acq: 12 May 2025 14:55

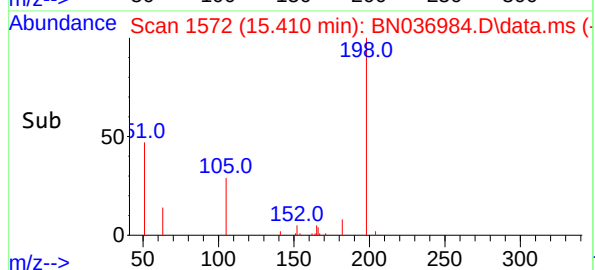
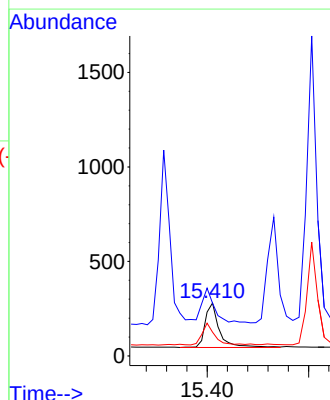
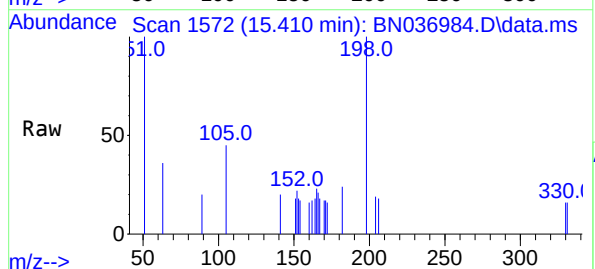
Tgt Ion:198 Resp: 462

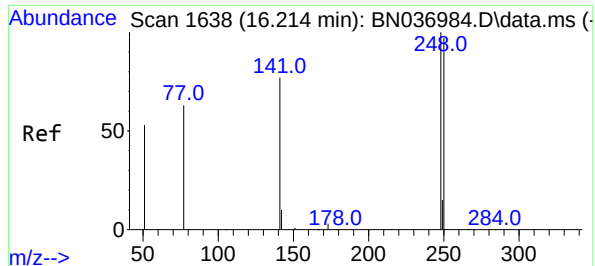
Ion Ratio Lower Upper

198 100

51 99.6 79.7 119.5

105 45.0 36.0 54.0

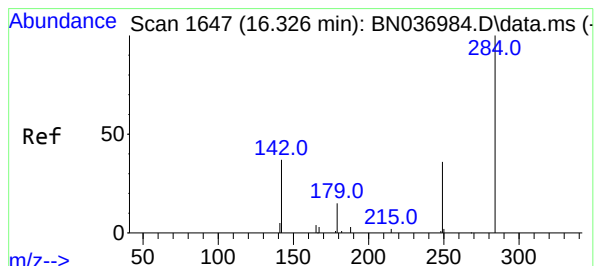
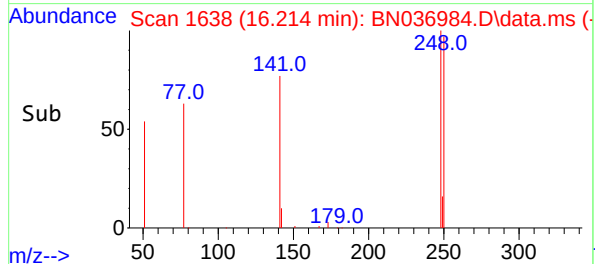
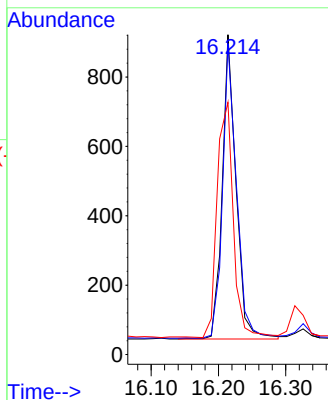
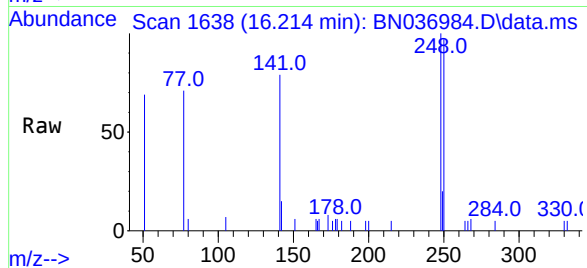




#21
4-Bromophenyl-phenylether
Concen: 0.39 ng
RT: 16.214 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN036984.D
Acq: 12 May 2025 14:55

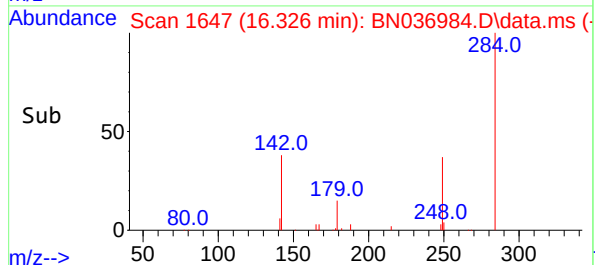
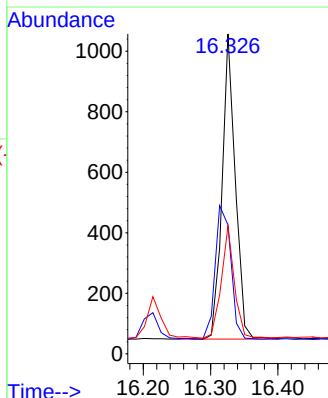
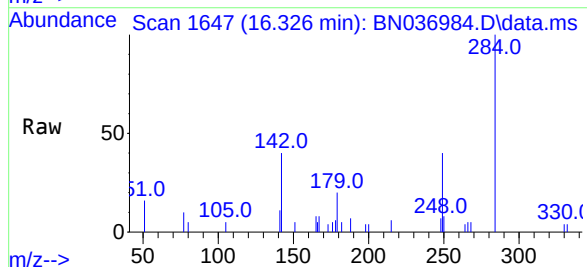
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

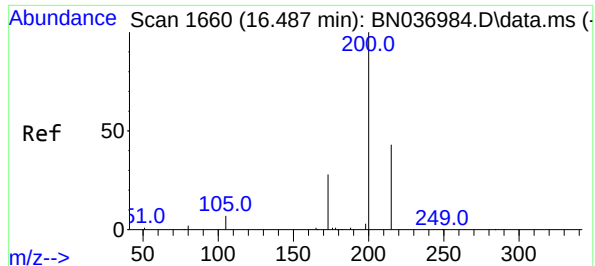
Tgt Ion: 248 Resp: 1240
Ion Ratio Lower Upper
248 100
250 97.3 77.8 116.8
141 78.9 63.1 94.7



#22
Hexachlorobenzene
Concen: 0.40 ng
RT: 16.326 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN036984.D
Acq: 12 May 2025 14:55

Tgt Ion: 284 Resp: 1367
Ion Ratio Lower Upper
284 100
142 51.8 41.4 62.2
249 36.4 29.1 43.7

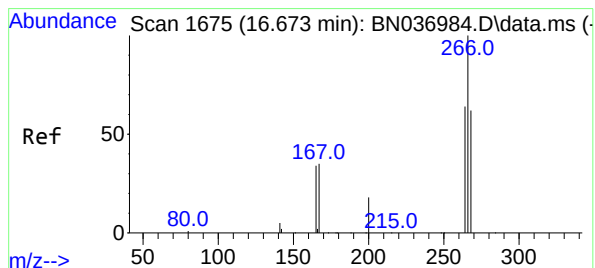
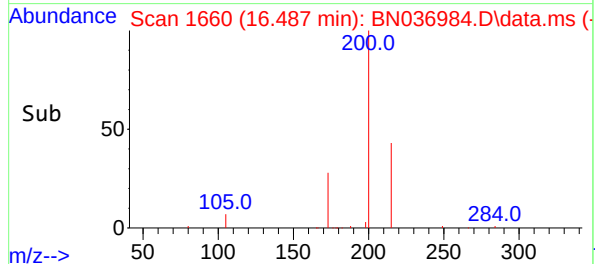
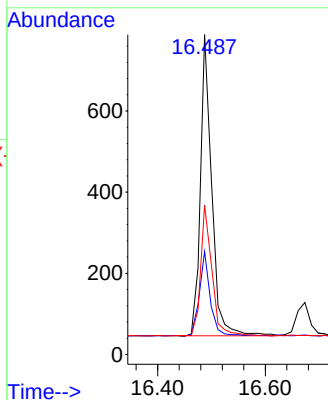
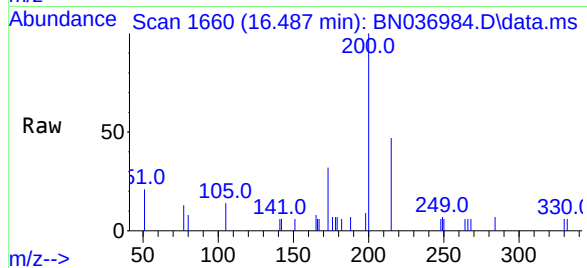




#23
Atrazine
Concen: 0.39 ng
RT: 16.487 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN036984.D
Acq: 12 May 2025 14:55

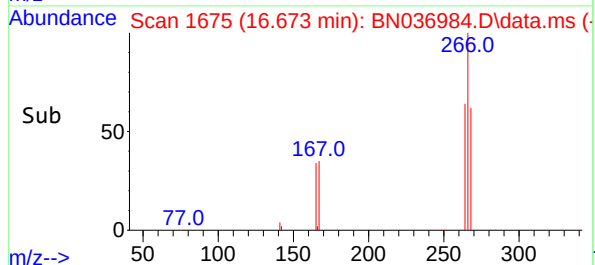
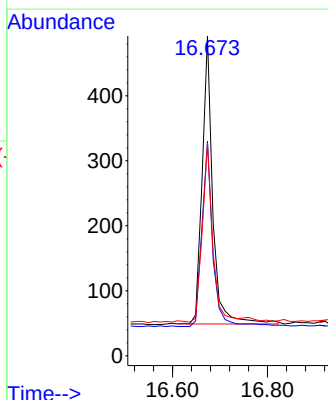
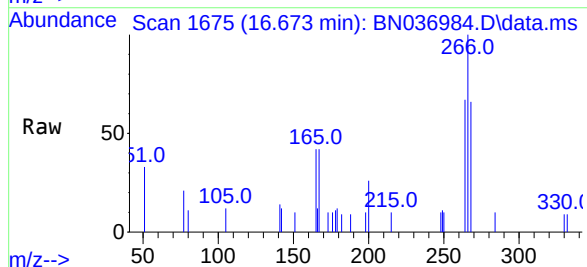
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

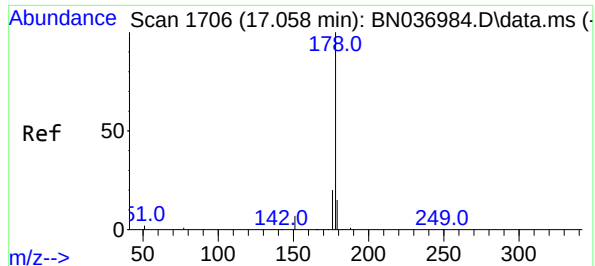
Tgt Ion:200 Resp: 1087
Ion Ratio Lower Upper
200 100
173 32.2 25.8 38.6
215 46.7 37.4 56.0



#24
Pentachlorophenol
Concen: 0.36 ng
RT: 16.673 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN036984.D
Acq: 12 May 2025 14:55

Tgt Ion:266 Resp: 688
Ion Ratio Lower Upper
266 100
264 66.0 52.8 79.2
268 62.5 50.0 75.0

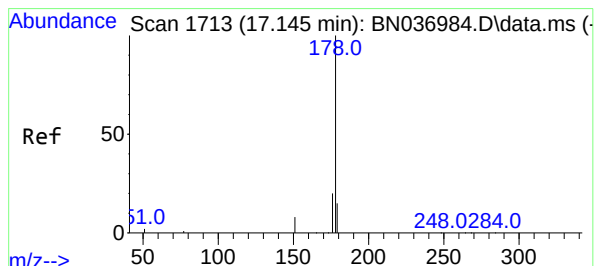
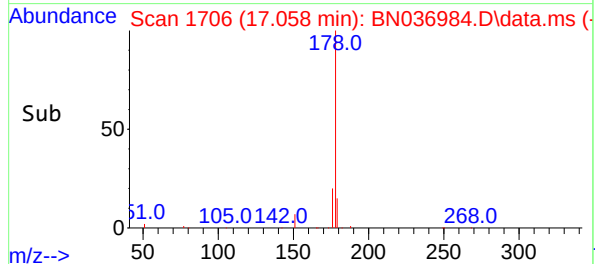
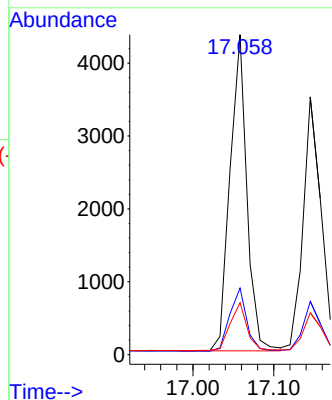
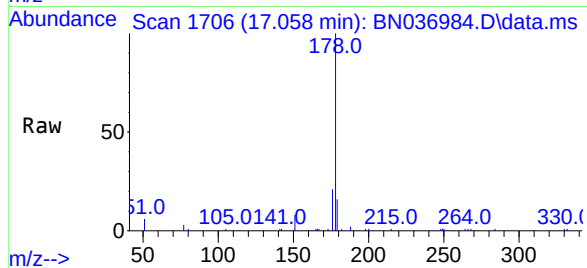




#25
Phenanthrene
Concen: 0.39 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN036984.D
Acq: 12 May 2025 14:55

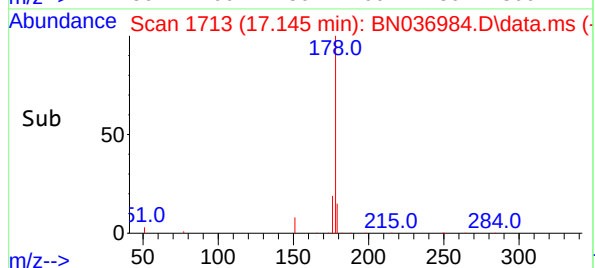
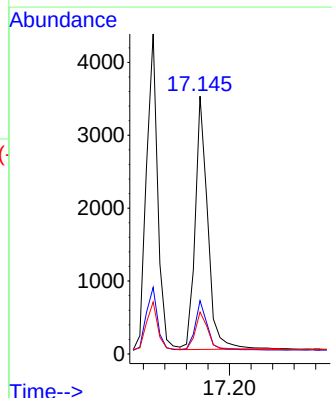
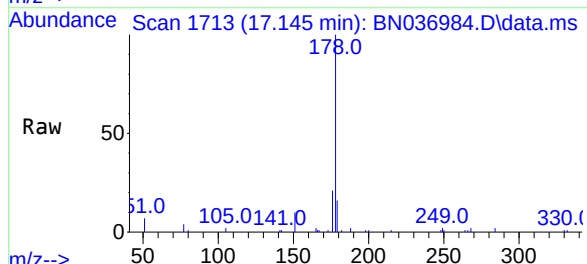
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

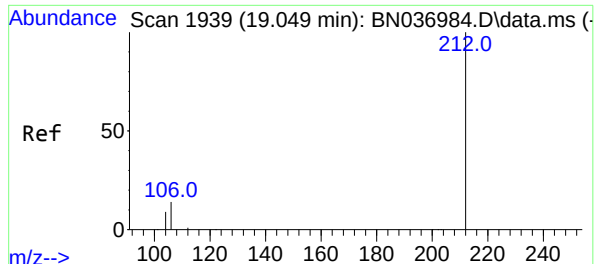
Tgt Ion:178 Resp: 6311
Ion Ratio Lower Upper
178 100
176 20.0 16.0 24.0
179 15.4 12.3 18.5



#26
Anthracene
Concen: 0.38 ng
RT: 17.145 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN036984.D
Acq: 12 May 2025 14:55

Tgt Ion:178 Resp: 5618
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.39 ng

RT: 19.049 min Scan# 1939

Delta R.T. 0.000 min

Lab File: BN036984.D

Acq: 12 May 2025 14:55

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

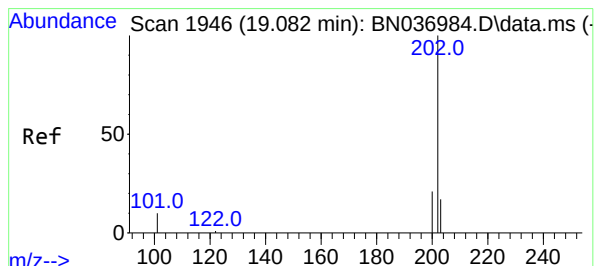
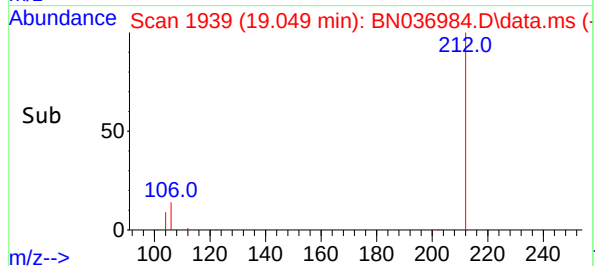
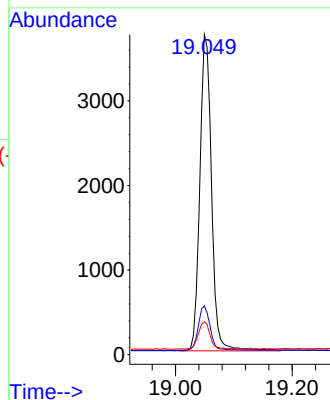
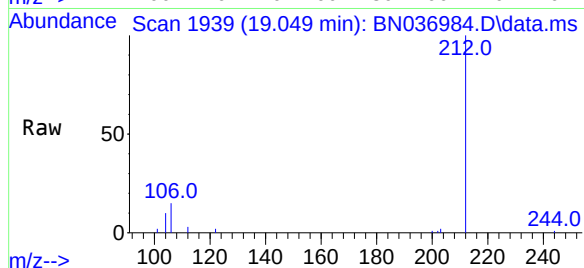
Tgt Ion:212 Resp: 5212

Ion Ratio Lower Upper

212 100

106 14.1 11.3 16.9

104 8.7 7.0 10.4



#28

Fluoranthene

Concen: 0.39 ng

RT: 19.082 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN036984.D

Acq: 12 May 2025 14:55

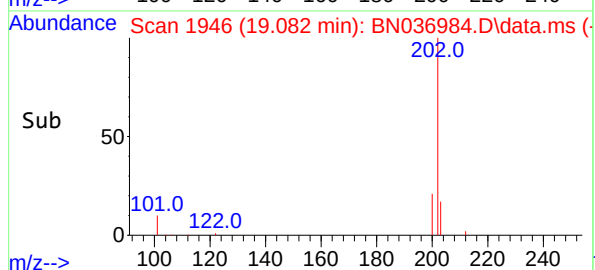
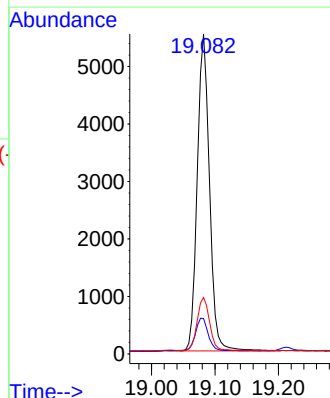
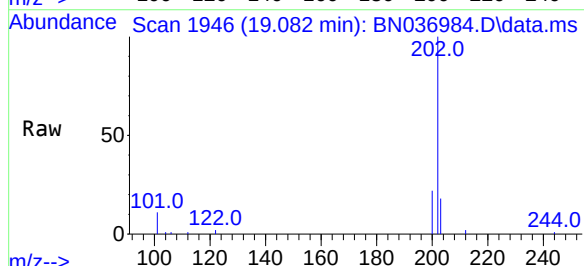
Tgt Ion:202 Resp: 7368

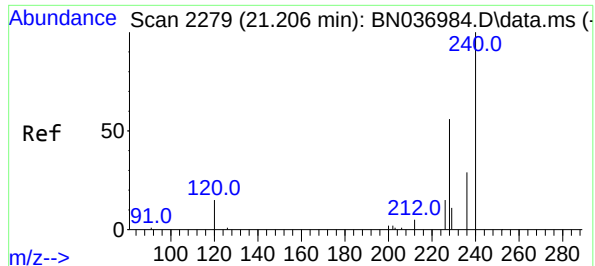
Ion Ratio Lower Upper

202 100

101 10.7 8.6 12.8

203 16.9 13.5 20.3





#29

Chrysene-d12

Concen: 0.40 ng

RT: 21.206 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036984.D

Acq: 12 May 2025 14:55

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

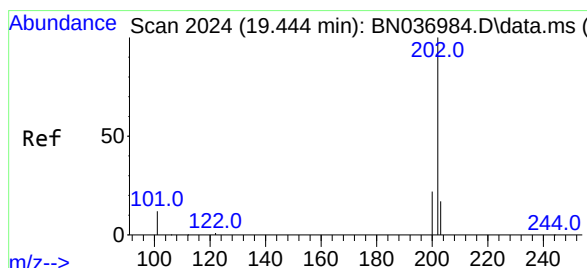
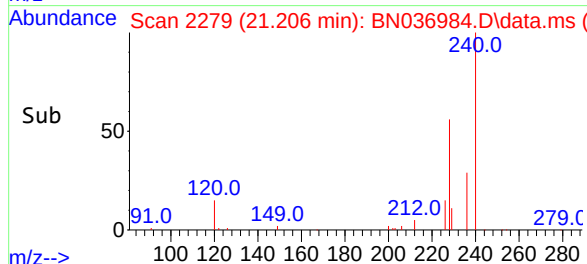
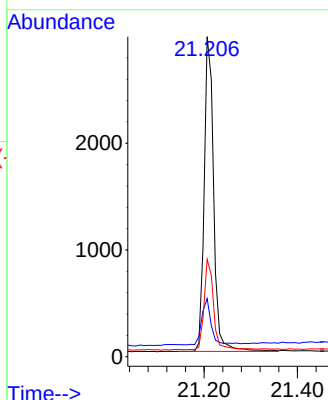
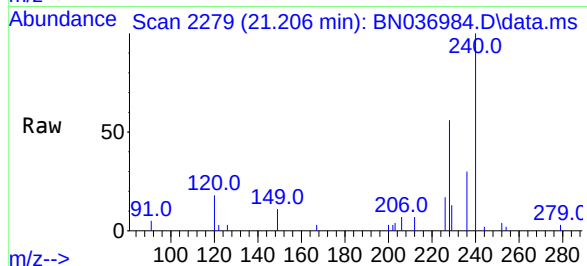
Tgt Ion:240 Resp: 4184

Ion Ratio Lower Upper

240 100

120 18.1 14.5 21.7

236 30.4 24.3 36.5



#30

Pyrene

Concen: 0.39 ng

RT: 19.444 min Scan# 2024

Delta R.T. 0.000 min

Lab File: BN036984.D

Acq: 12 May 2025 14:55

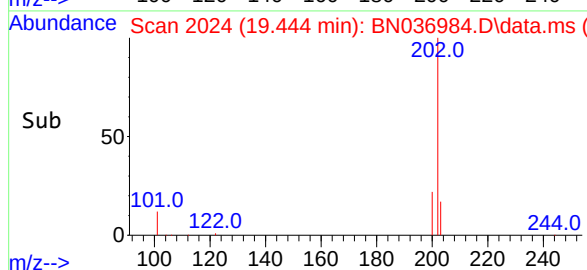
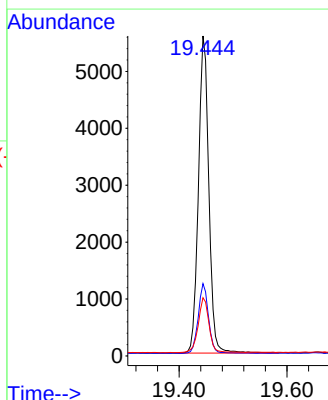
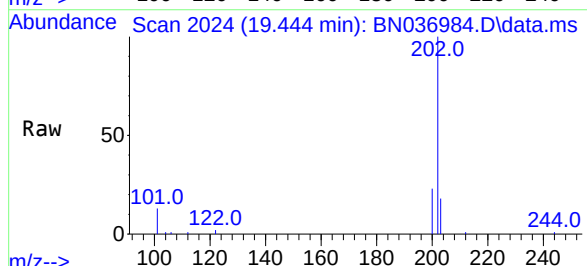
Tgt Ion:202 Resp: 7455

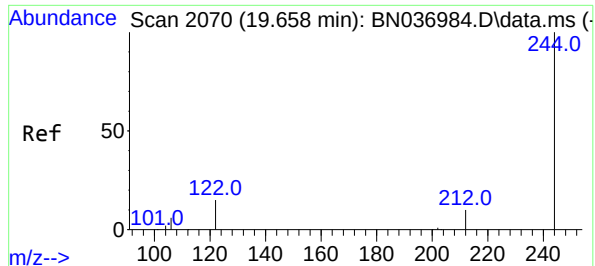
Ion Ratio Lower Upper

202 100

200 21.6 17.3 25.9

203 18.0 14.4 21.6

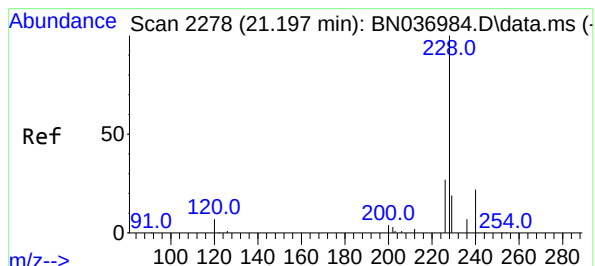
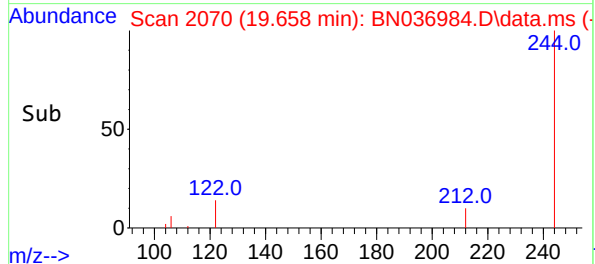
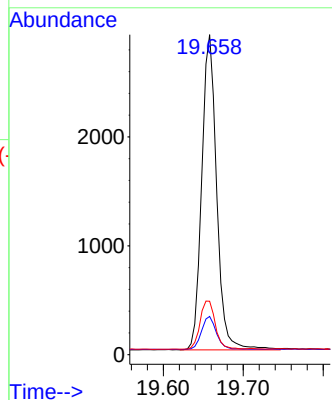
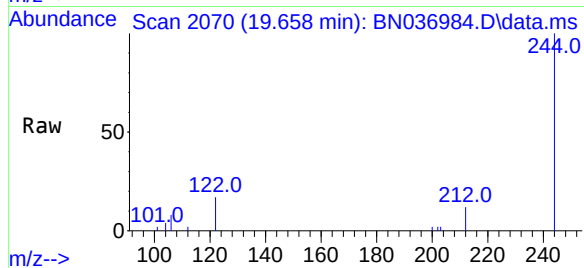




#31
Terphenyl-d14
Concen: 0.40 ng
RT: 19.658 min Scan# 2070
Delta R.T. 0.000 min
Lab File: BN036984.D
Acq: 12 May 2025 14:55

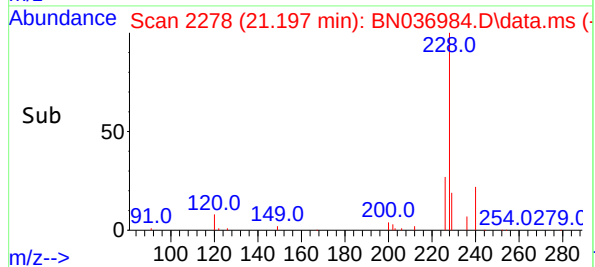
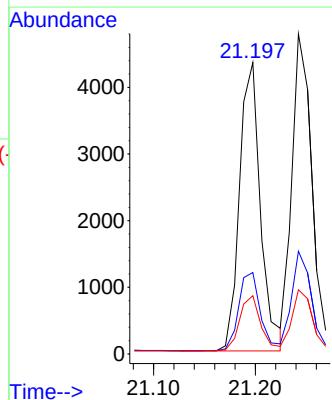
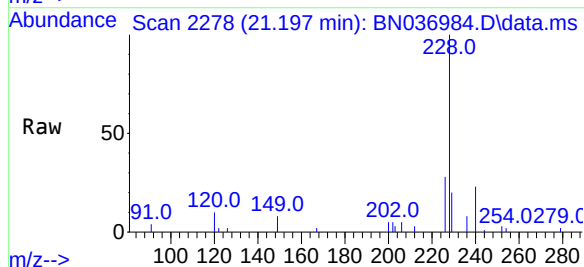
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

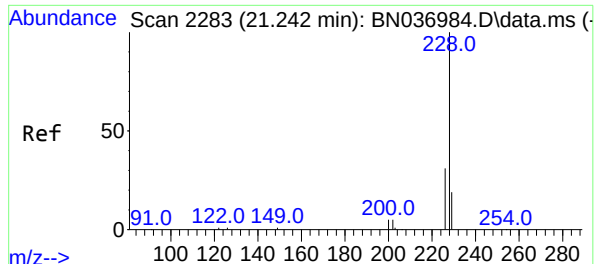
Tgt Ion:244 Resp: 3747
Ion Ratio Lower Upper
244 100
212 11.9 9.5 14.3
122 16.7 13.4 20.0



#32
Benzo(a)anthracene
Concen: 0.39 ng
RT: 21.197 min Scan# 2278
Delta R.T. 0.000 min
Lab File: BN036984.D
Acq: 12 May 2025 14:55

Tgt Ion:228 Resp: 6209
Ion Ratio Lower Upper
228 100
226 28.0 22.4 33.6
229 20.0 16.0 24.0





#33

Chrysene

Concen: 0.40 ng

RT: 21.242 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036984.D

Acq: 12 May 2025 14:55

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

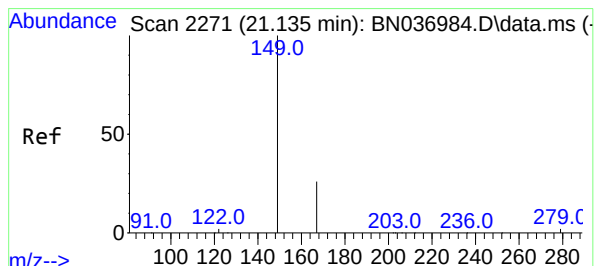
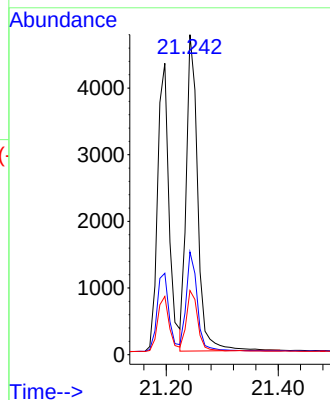
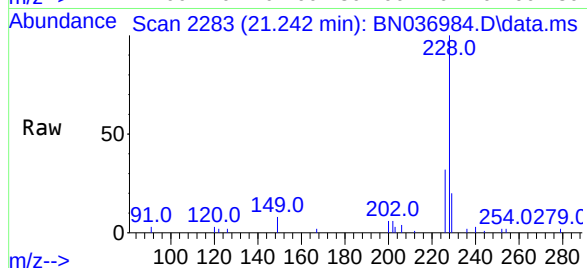
Tgt Ion:228 Resp: 6744

Ion Ratio Lower Upper

228 100

226 32.1 25.7 38.5

229 20.0 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.39 ng

RT: 21.135 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BN036984.D

Acq: 12 May 2025 14:55

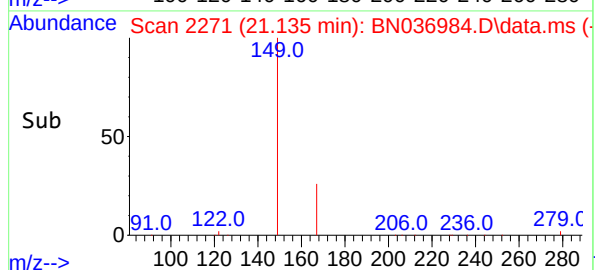
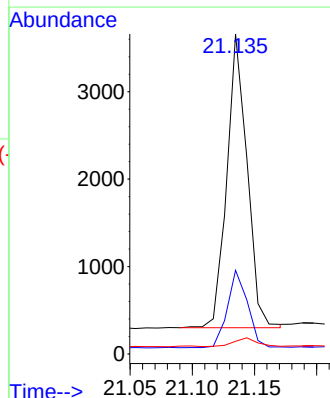
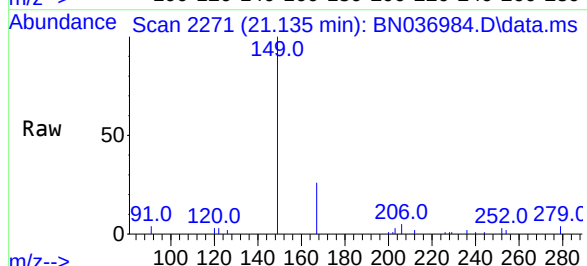
Tgt Ion:149 Resp: 3799

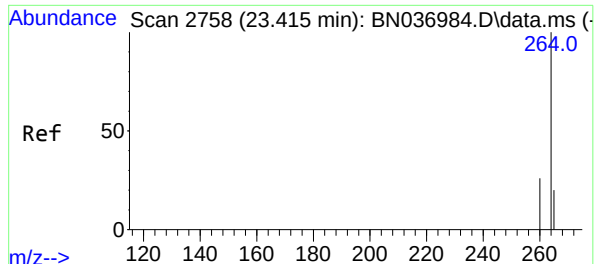
Ion Ratio Lower Upper

149 100

167 26.3 21.0 31.6

279 3.4 2.7 4.1





#35

Perylene-d12

Concen: 0.40 ng

RT: 23.415 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036984.D

Acq: 12 May 2025 14:55

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

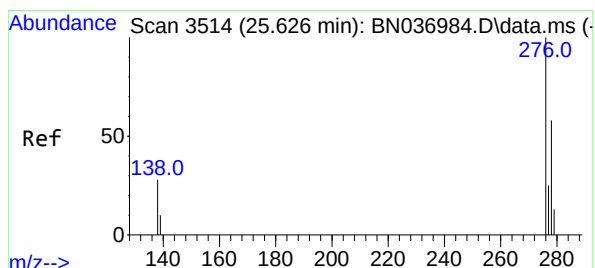
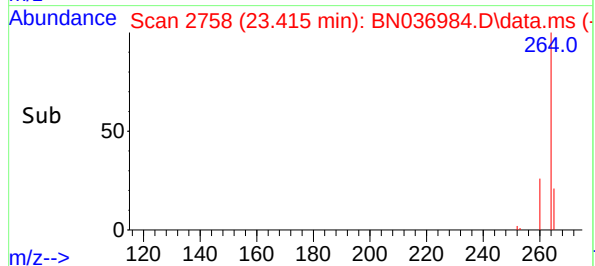
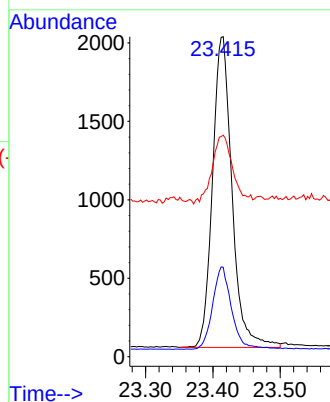
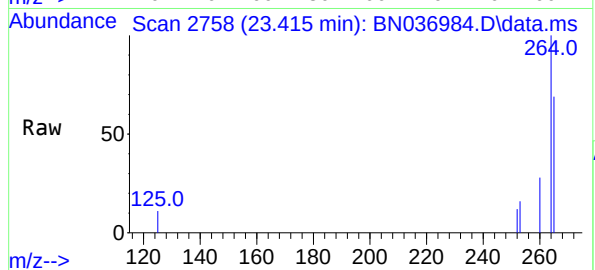
Tgt Ion:264 Resp: 3988

Ion Ratio Lower Upper

264 100

260 27.9 22.3 33.5

265 69.2 55.4 83.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.40 ng

RT: 25.626 min Scan# 3514

Delta R.T. 0.000 min

Lab File: BN036984.D

Acq: 12 May 2025 14:55

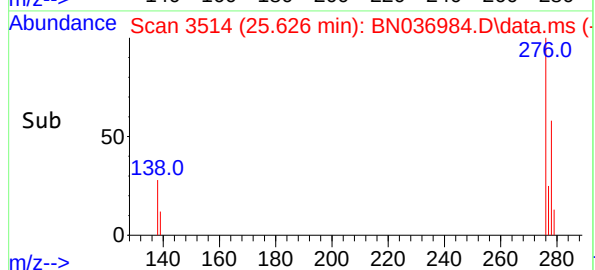
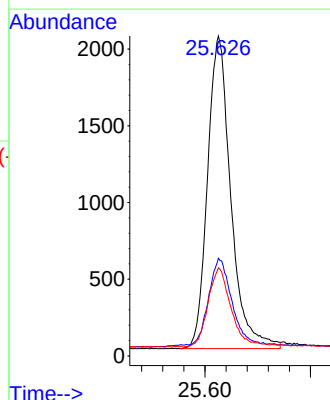
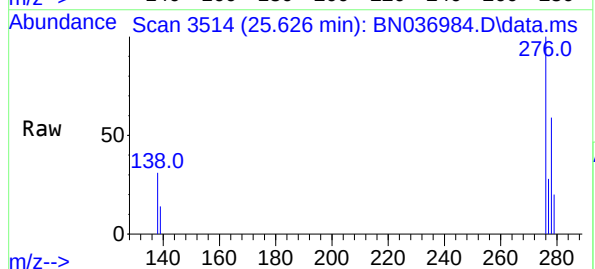
Tgt Ion:276 Resp: 6246

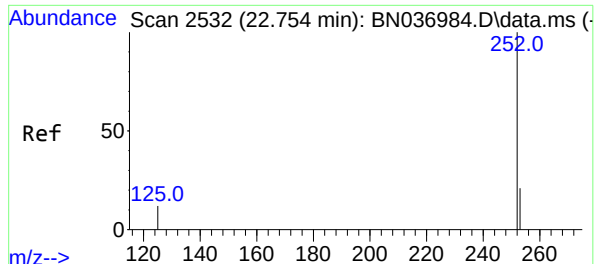
Ion Ratio Lower Upper

276 100

138 27.3 21.8 32.8

277 25.3 20.2 30.4





#37

Benzo(b)fluoranthene

Concen: 0.38 ng

RT: 22.754 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN036984.D

Acq: 12 May 2025 14:55

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

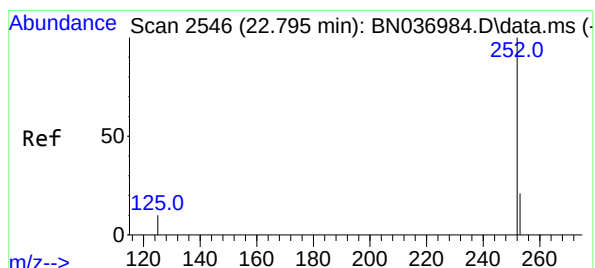
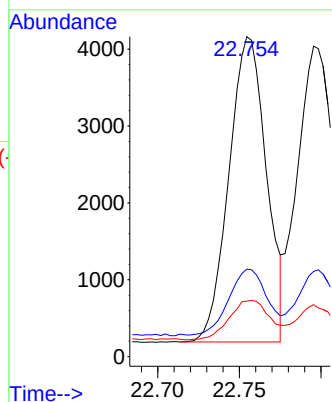
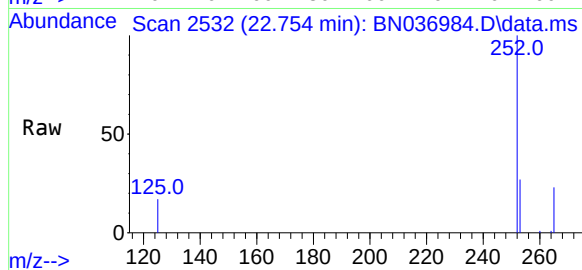
Tgt Ion:252 Resp: 6319

Ion Ratio Lower Upper

252 100

253 27.4 21.9 32.9

125 17.3 13.8 20.8



#38

Benzo(k)fluoranthene

Concen: 0.39 ng

RT: 22.795 min Scan# 2546

Delta R.T. 0.000 min

Lab File: BN036984.D

Acq: 12 May 2025 14:55

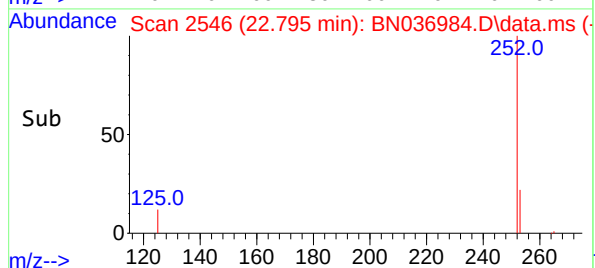
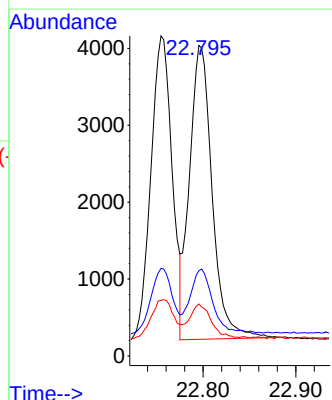
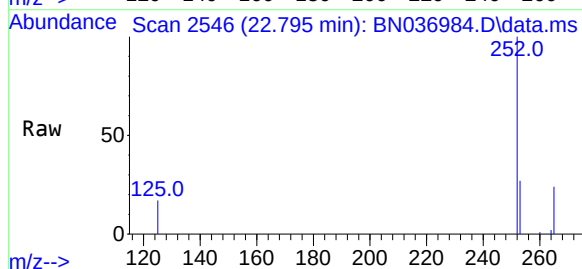
Tgt Ion:252 Resp: 6491

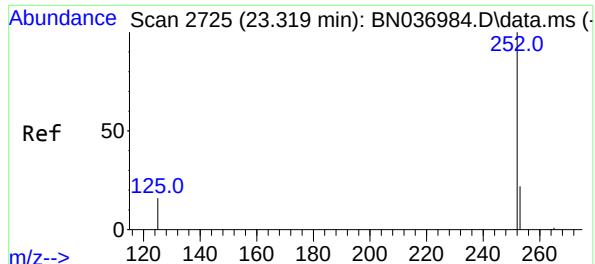
Ion Ratio Lower Upper

252 100

253 27.5 22.0 33.0

125 16.8 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.39 ng

RT: 23.319 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036984.D

Acq: 12 May 2025 14:55

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

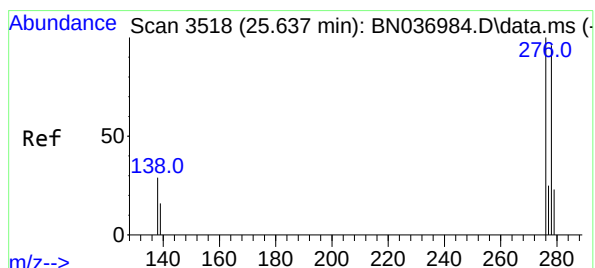
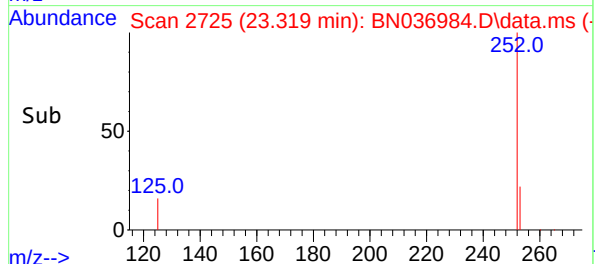
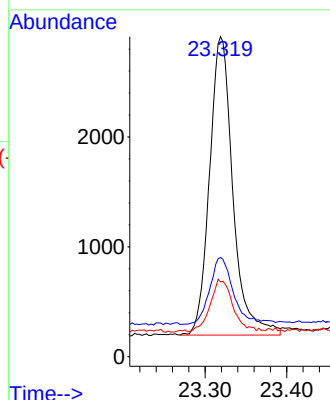
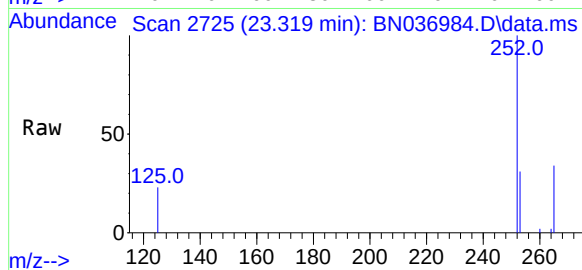
Tgt Ion:252 Resp: 5404

Ion Ratio Lower Upper

252 100

253 31.0 24.8 37.2

125 23.3 18.6 28.0



#40

Dibenzo(a,h)anthracene

Concen: 0.40 ng

RT: 25.637 min Scan# 3518

Delta R.T. 0.000 min

Lab File: BN036984.D

Acq: 12 May 2025 14:55

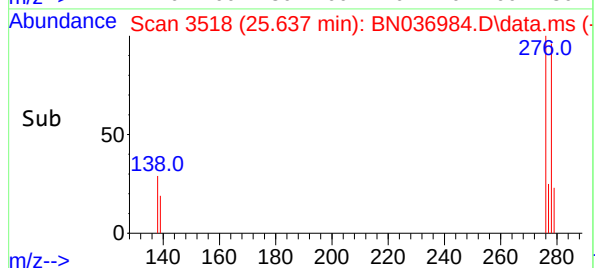
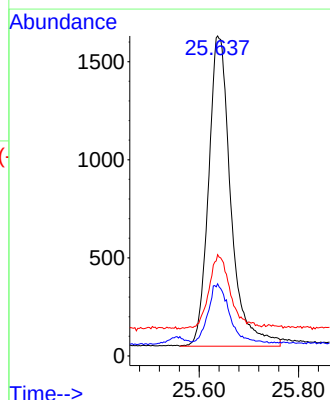
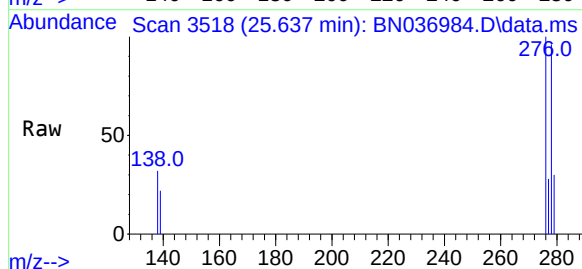
Tgt Ion:278 Resp: 4920

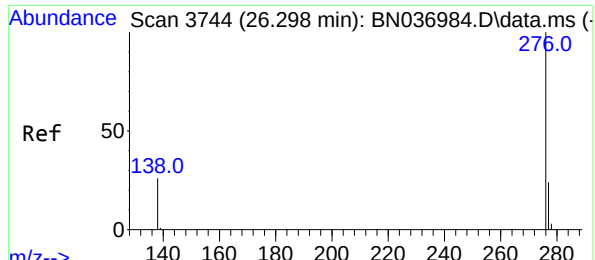
Ion Ratio Lower Upper

278 100

139 22.6 18.1 27.1

279 31.6 25.3 37.9





#41

Benzo(g,h,i)perylene

Concen: 0.40 ng

RT: 26.298 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN036984.D

Acq: 12 May 2025 14:55

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

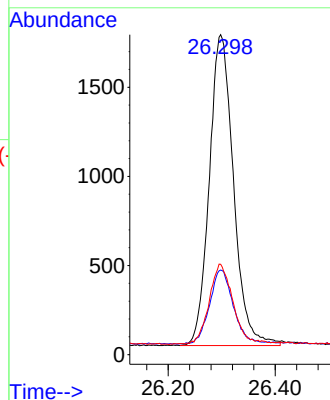
Tgt Ion:276 Resp: 5478

Ion Ratio Lower Upper

276 100

277 26.5 21.2 31.8

138 28.2 22.6 33.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051225\
 Data File : BN036985.D
 Acq On : 12 May 2025 15:31
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: May 12 17:53:01 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 12 17:44:09 2025
 Response via : Initial Calibration

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

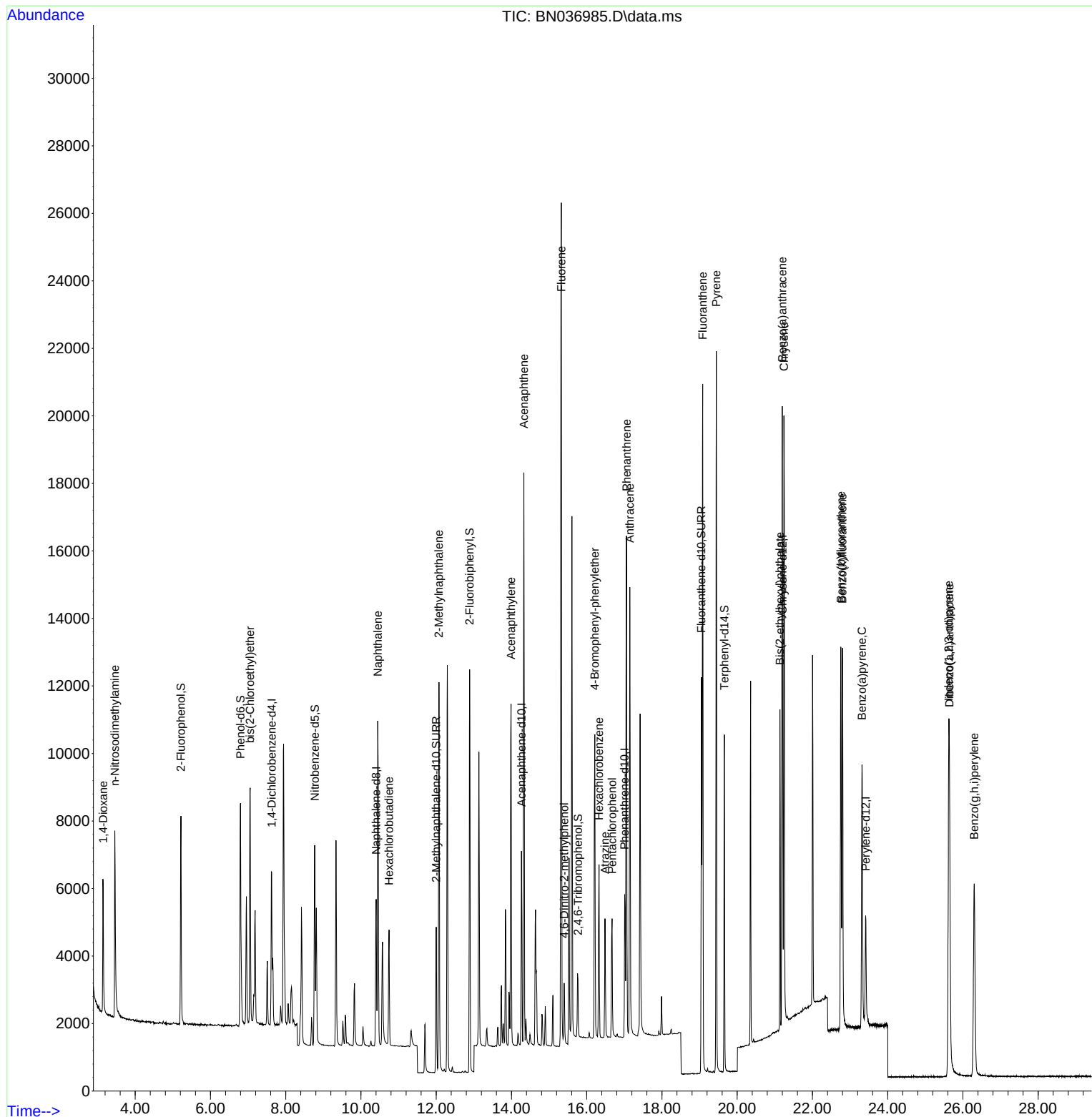
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.625	152	2168	0.40	ng	0.00
7) Naphthalene-d8	10.404	136	5452	0.40	ng	0.00
13) Acenaphthene-d10	14.267	164	3026	0.40	ng	0.00
19) Phenanthrene-d10	17.009	188	5991	0.40	ng	0.00
29) Chrysene-d12	21.206	240	4976	0.40	ng	0.00
35) Perylene-d12	23.415	264	4312	0.40	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	4244	0.76	ng	0.00
5) Phenol-d6	6.795	99	5081	0.75	ng	0.00
8) Nitrobenzene-d5	8.771	82	4479	0.78	ng	0.00
11) 2-Methylnaphthalene-d10	12.001	152	5886	0.77	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	1024	0.74	ng	0.00
15) 2-Fluorobiphenyl	12.888	172	11371	0.80	ng	0.00
27) Fluoranthene-d10	19.049	212	12477	0.77	ng	0.00
31) Terphenyl-d14	19.658	244	8901	0.79	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.148	88	2215	0.79	ng	97
3) n-Nitrosodimethylamine	3.458	42	4483	0.78	ng	99
6) bis(2-Chloroethyl)ether	7.055	93	4908	0.78	ng	99
9) Naphthalene	10.447	128	12202	0.77	ng	98
10) Hexachlorobutadiene	10.746	225	2624	0.77	ng	# 98
12) 2-Methylnaphthalene	12.072	142	7878	0.77	ng	99
16) Acenaphthylene	13.989	152	11407	0.77	ng	99
17) Acenaphthene	14.331	154	7488	0.77	ng	99
18) Fluorene	15.325	166	10074	0.77	ng	100
20) 4,6-Dinitro-2-methylph...	15.400	198	1195	0.78	ng	# 93
21) 4-Bromophenyl-phenylether	16.214	248	3076	0.79	ng	95
22) Hexachlorobenzene	16.326	284	3239	0.78	ng	98
23) Atrazine	16.487	200	2599	0.76	ng	96
24) Pentachlorophenol	16.673	266	1752	0.76	ng	97
25) Phenanthrene	17.058	178	15515	0.79	ng	99
26) Anthracene	17.145	178	13912	0.77	ng	100
28) Fluoranthene	19.082	202	17871	0.77	ng	99
30) Pyrene	19.444	202	17953	0.79	ng	99
32) Benzo(a)anthracene	21.197	228	14621	0.78	ng	99
33) Chrysene	21.242	228	15456	0.78	ng	99
34) Bis(2-ethylhexyl)phtha...	21.135	149	8135	0.70	ng	99
36) Indeno(1,2,3-cd)pyrene	25.623	276	13295	0.78	ng	98
37) Benzo(b)fluoranthene	22.754	252	13742	0.76	ng	94
38) Benzo(k)fluoranthene	22.798	252	13773	0.77	ng	94
39) Benzo(a)pyrene	23.316	252	11335	0.76	ng	# 89
40) Dibenzo(a,h)anthracene	25.640	278	10442	0.79	ng	93
41) Benzo(g,h,i)perylene	26.301	276	11500	0.78	ng	97

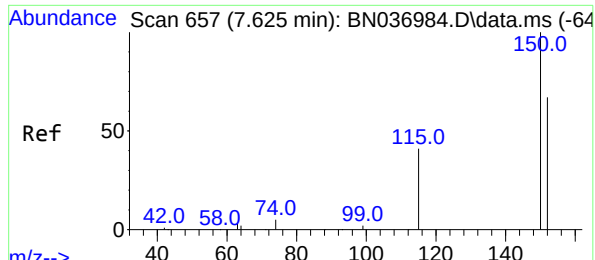
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051225\
Data File : BN036985.D
Acq On : 12 May 2025 15:31
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: May 12 17:53:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 12 17:44:09 2025
Response via : Initial Calibration

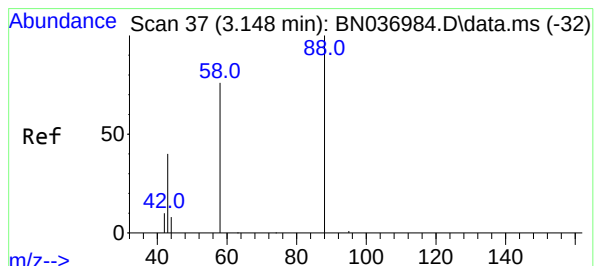
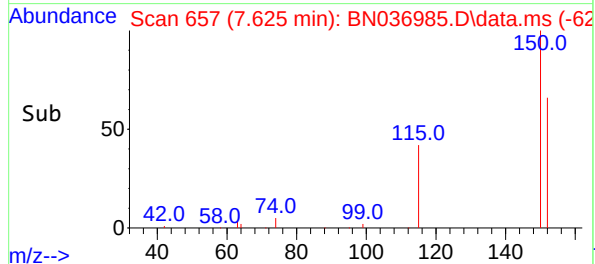
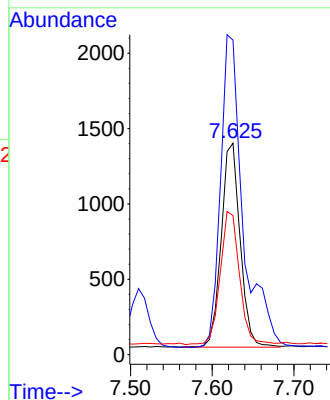
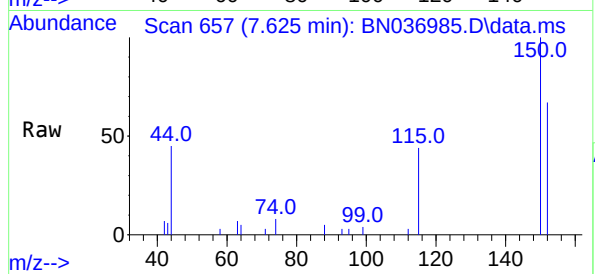




#1
1,4-Dichlorobenzene-d4
Concen: 0.40 ng
RT: 7.625 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036985.D
Acq: 12 May 2025 15:31

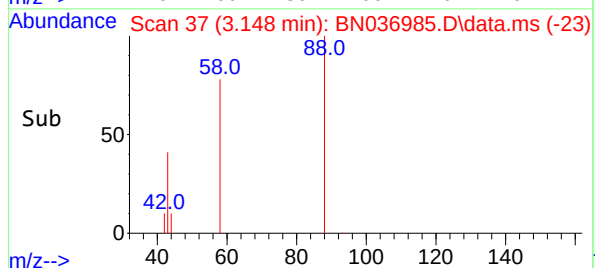
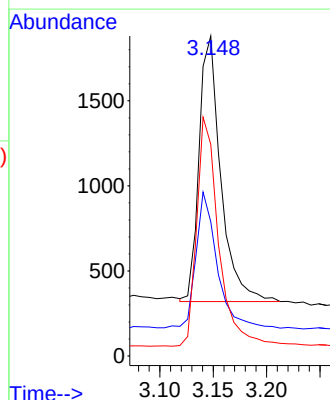
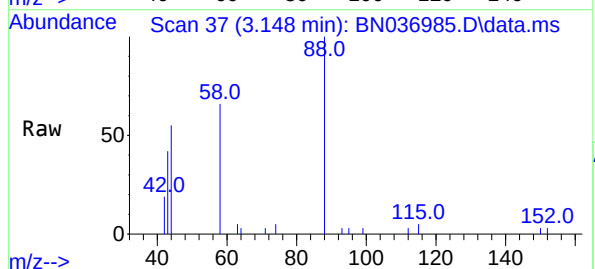
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 2168
Ion Ratio Lower Upper
152 100
150 148.8 118.2 177.4
115 65.7 52.5 78.7

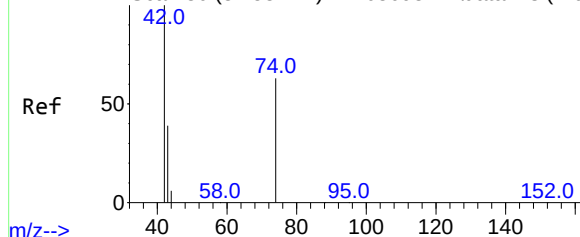


#2
1,4-Dioxane
Concen: 0.79 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.000 min
Lab File: BN036985.D
Acq: 12 May 2025 15:31

Tgt Ion: 88 Resp: 2215
Ion Ratio Lower Upper
88 100
43 49.9 43.3 64.9
58 87.4 70.7 106.1



Abundance Scan 80 (3.458 min): BN036984.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 0.78 ng

RT: 3.458 min Scan# 80

Delta R.T. -0.000 min

Lab File: BN036985.D

Acq: 12 May 2025 15:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

Tgt Ion: 42 Resp: 4483

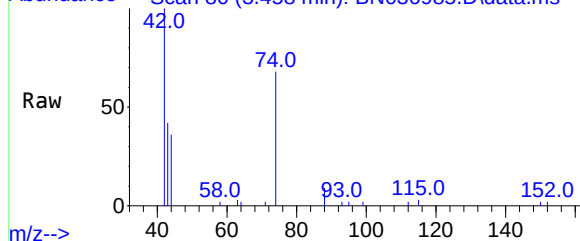
Ion Ratio Lower Upper

42 100

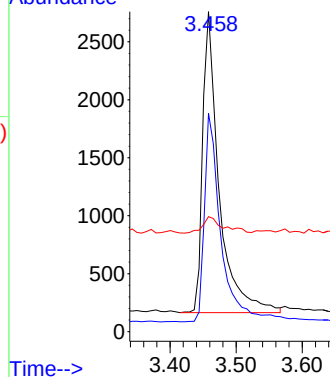
74 69.9 55.2 82.8

44 6.7 4.7 7.1

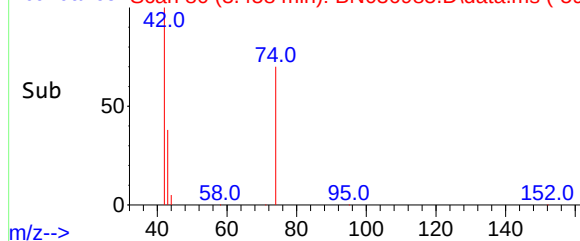
Abundance Scan 80 (3.458 min): BN036985.D\data.ms



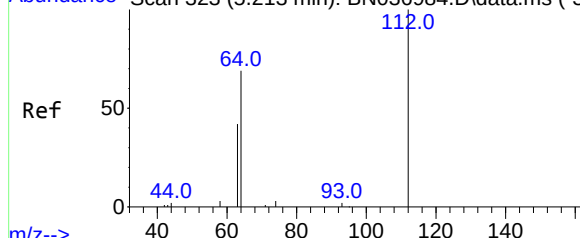
Abundance



Abundance Scan 80 (3.458 min): BN036985.D\data.ms (-59)



Abundance Scan 323 (5.213 min): BN036984.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.76 ng

RT: 5.213 min Scan# 323

Delta R.T. -0.000 min

Lab File: BN036985.D

Acq: 12 May 2025 15:31

Tgt Ion: 112 Resp: 4244

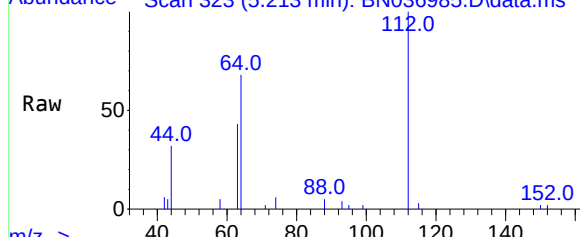
Ion Ratio Lower Upper

112 100

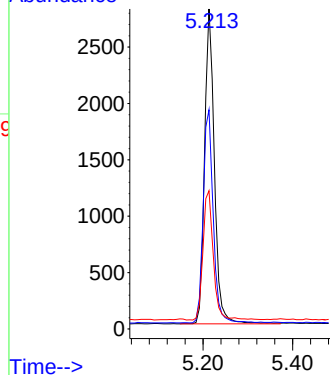
64 69.5 56.2 84.2

63 43.2 34.3 51.5

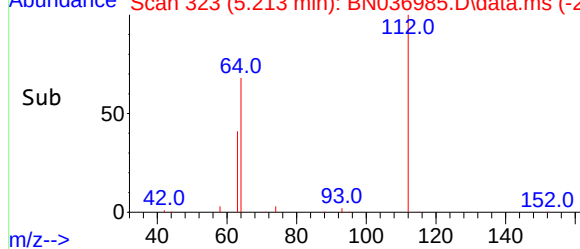
Abundance Scan 323 (5.213 min): BN036985.D\data.ms

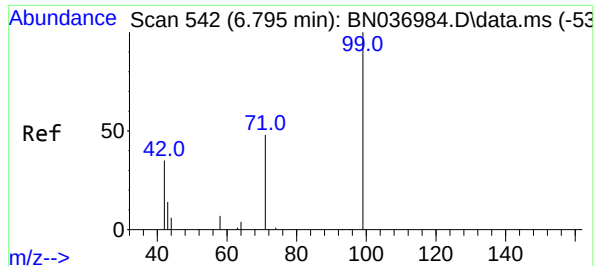


Abundance



Abundance Scan 323 (5.213 min): BN036985.D\data.ms (-29)





#5

Phenol-d6

Concen: 0.75 ng

RT: 6.795 min Scan# 542

Delta R.T. -0.000 min

Lab File: BN036985.D

Acq: 12 May 2025 15:31

Instrument :

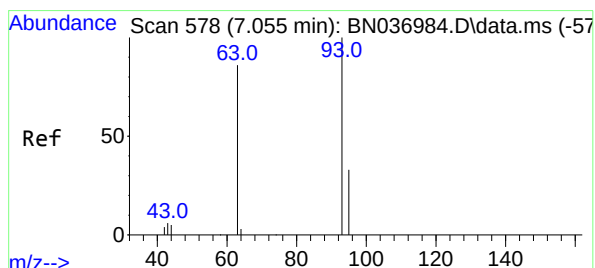
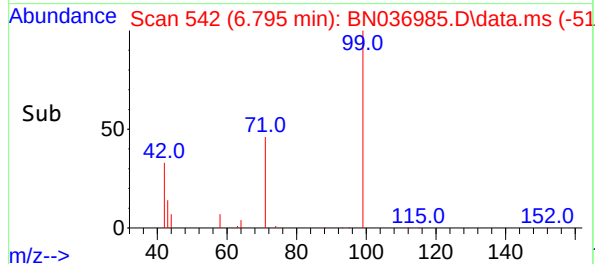
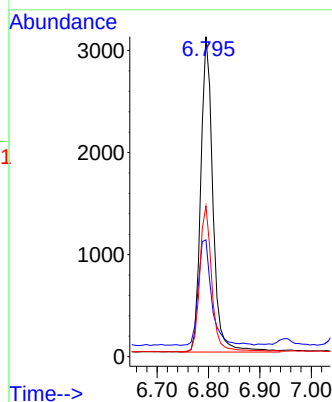
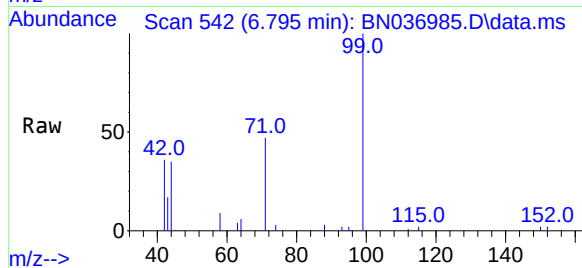
BNA_N

ClientSampleId :

SSTDICC0.8

Tgt Ion: 99 Resp: 5081

Ion	Ratio	Lower	Upper
99	100		
42	36.4	29.0	43.6
71	45.8	36.2	54.2



#6

bis(2-Chloroethyl)ether

Concen: 0.78 ng

RT: 7.055 min Scan# 578

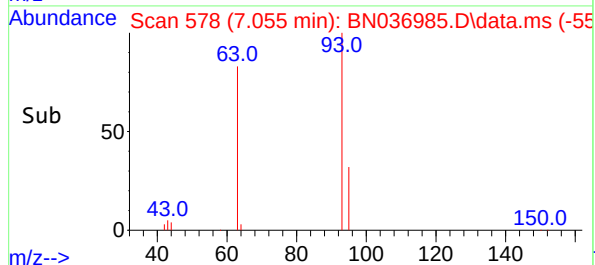
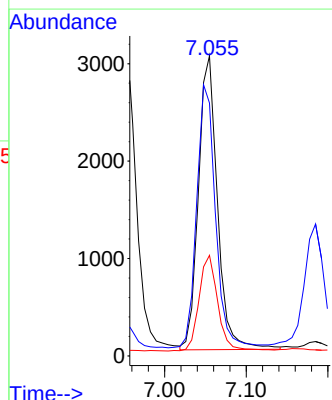
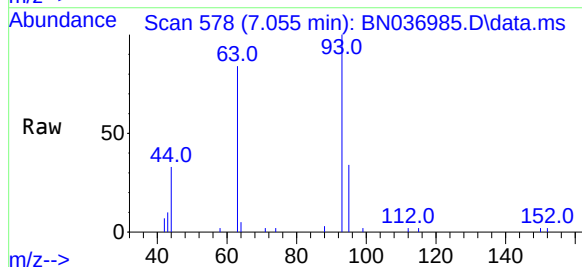
Delta R.T. -0.000 min

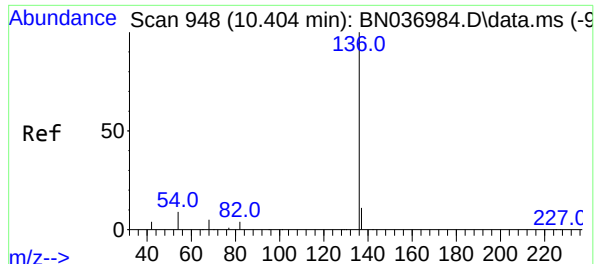
Lab File: BN036985.D

Acq: 12 May 2025 15:31

Tgt Ion: 93 Resp: 4908

Ion	Ratio	Lower	Upper
93	100		
63	88.2	69.6	104.4
95	32.2	25.1	37.7

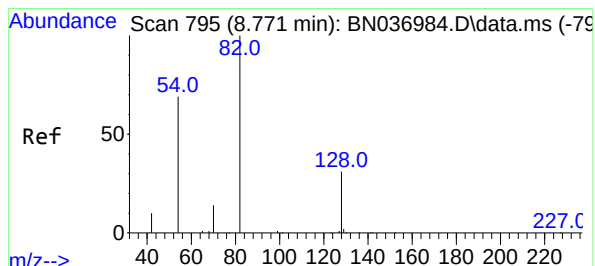
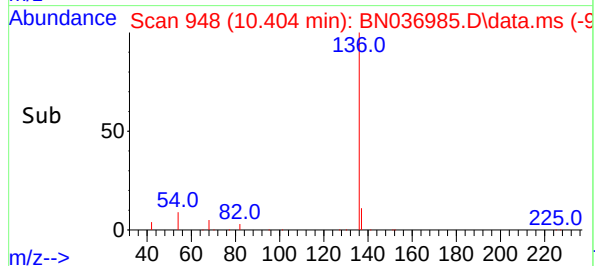
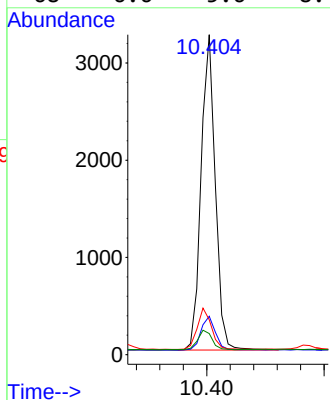
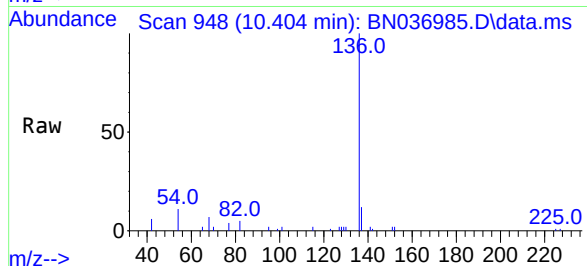




#7
Naphthalene-d8
Concen: 0.40 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN036985.D
Acq: 12 May 2025 15:31

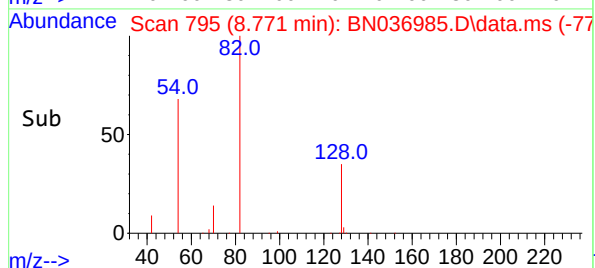
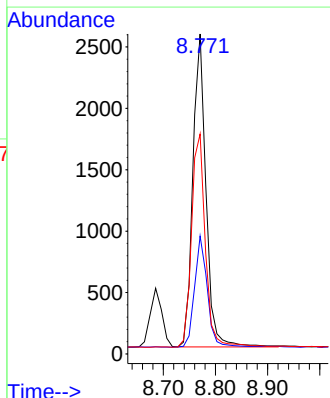
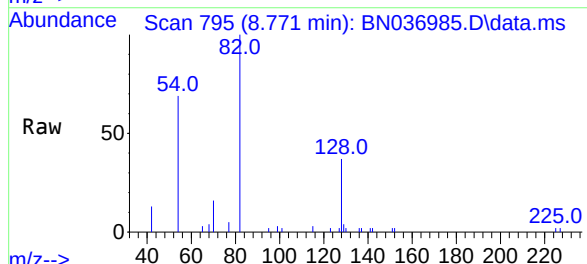
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

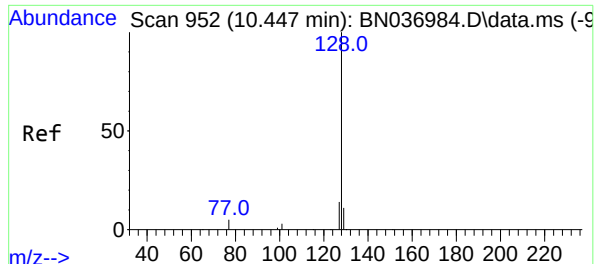
Tgt Ion:	136	Resp:	5452
Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.3	15.5
54	10.9	9.2	13.8
68	6.6	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.78 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.000 min
Lab File: BN036985.D
Acq: 12 May 2025 15:31

Tgt Ion:	82	Resp:	4479
Ion	Ratio	Lower	Upper
82	100		
128	36.8	28.1	42.1
54	68.8	56.4	84.6

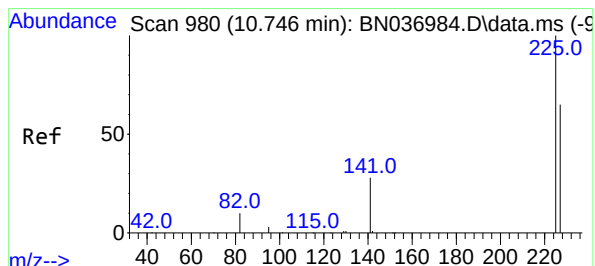
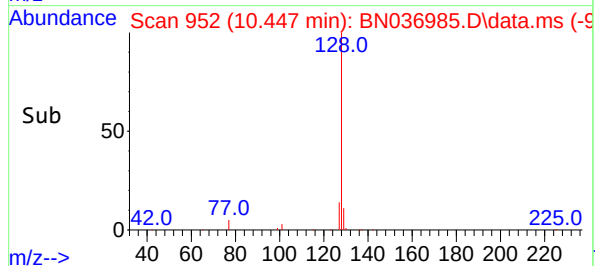
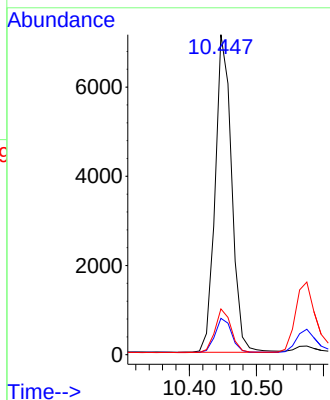
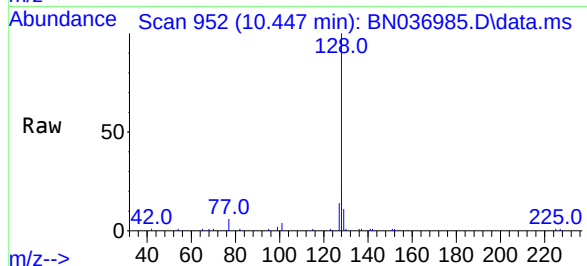




#9
Naphthalene
Concen: 0.77 ng
RT: 10.447 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036985.D
Acq: 12 May 2025 15:31

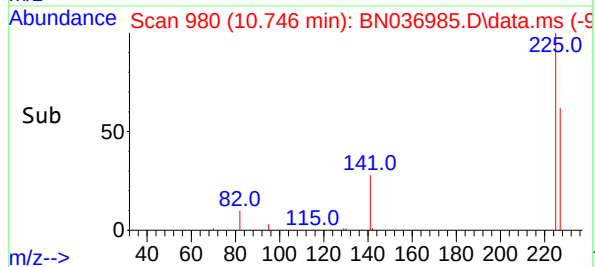
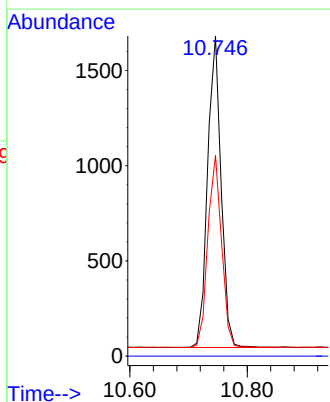
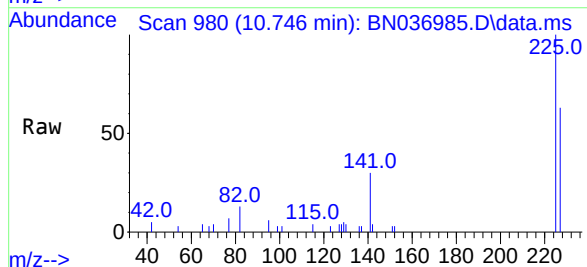
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

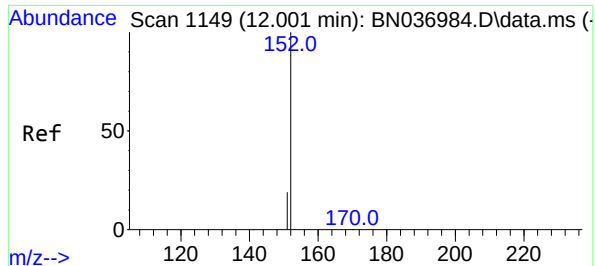
Tgt Ion:128 Resp: 12202
Ion Ratio Lower Upper
128 100
129 11.3 10.0 15.0
127 14.3 12.1 18.1



#10
Hexachlorobutadiene
Concen: 0.77 ng
RT: 10.746 min Scan# 980
Delta R.T. -0.000 min
Lab File: BN036985.D
Acq: 12 May 2025 15:31

Tgt Ion:225 Resp: 2624
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.7 51.2 76.8

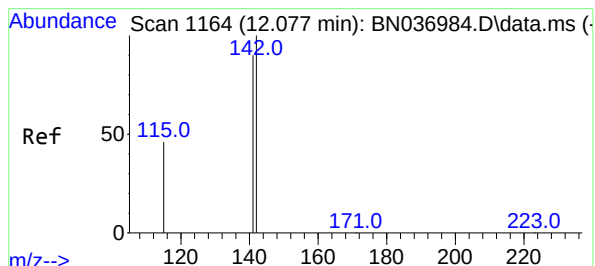
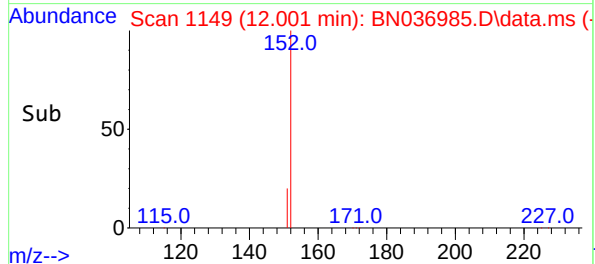
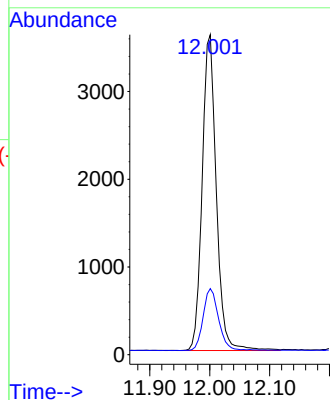
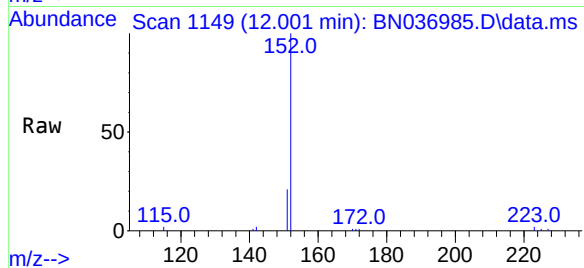




#11
2-Methylnaphthalene-d10
Concen: 0.77 ng
RT: 12.001 min Scan# 1149
Delta R.T. -0.000 min
Lab File: BN036985.D
Acq: 12 May 2025 15:31

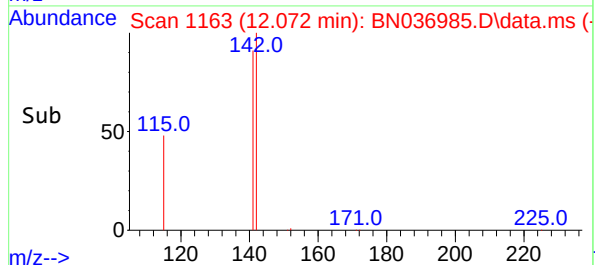
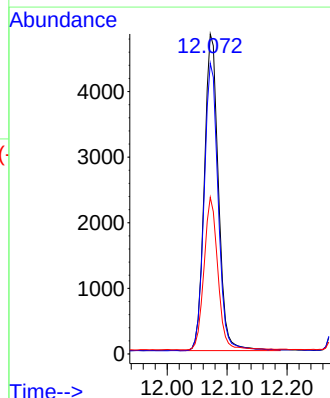
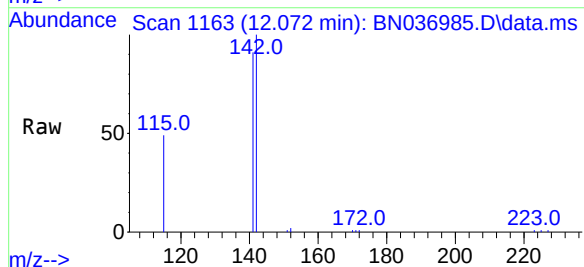
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

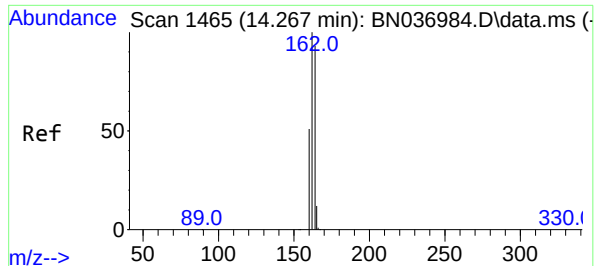
Tgt Ion:152 Resp: 5886
Ion Ratio Lower Upper
152 100
151 21.6 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.77 ng
RT: 12.072 min Scan# 1163
Delta R.T. -0.005 min
Lab File: BN036985.D
Acq: 12 May 2025 15:31

Tgt Ion:142 Resp: 7878
Ion Ratio Lower Upper
142 100
141 90.9 71.8 107.8
115 49.0 38.6 58.0

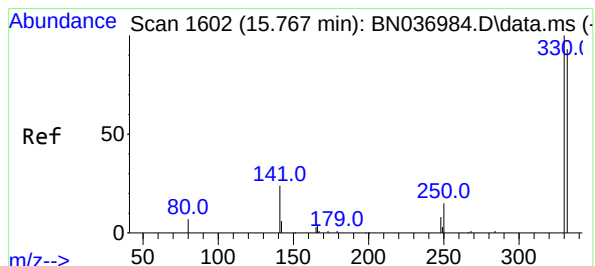
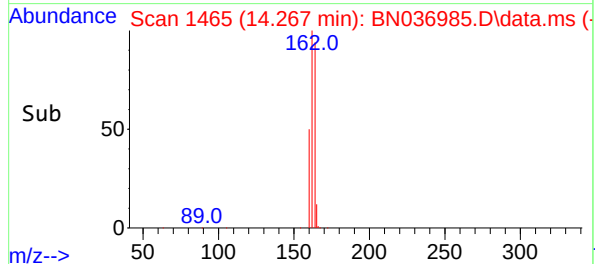
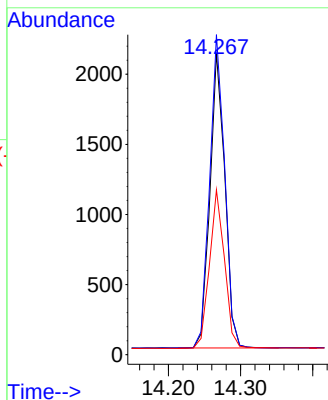
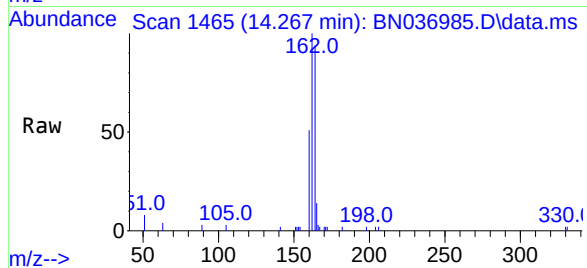




#13
Acenaphthene-d10
Concen: 0.40 ng
RT: 14.267 min Scan# 1465
Delta R.T. -0.000 min
Lab File: BN036985.D
Acq: 12 May 2025 15:31

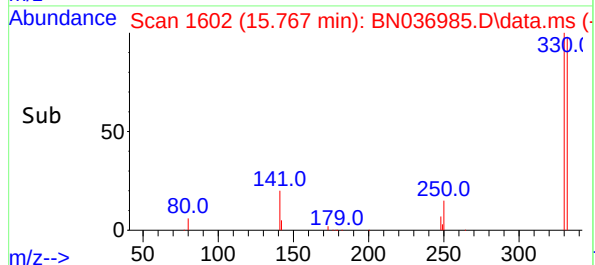
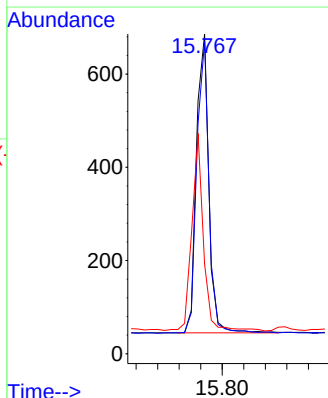
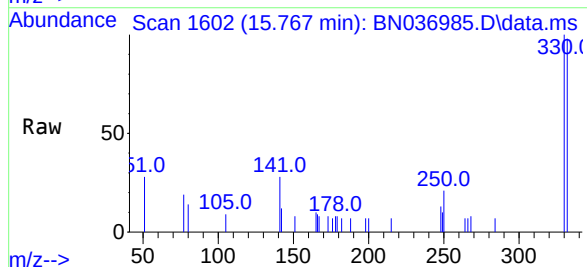
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

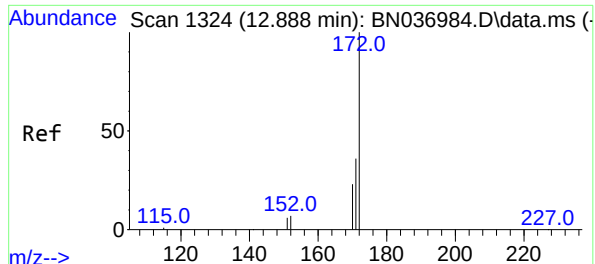
Tgt Ion:164 Resp: 3026
Ion Ratio Lower Upper
164 100
162 106.0 86.1 129.1
160 54.6 44.6 67.0



#14
2,4,6-Tribromophenol
Concen: 0.74 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036985.D
Acq: 12 May 2025 15:31

Tgt Ion:330 Resp: 1024
Ion Ratio Lower Upper
330 100
332 96.7 75.6 113.4
141 62.0 47.4 71.2

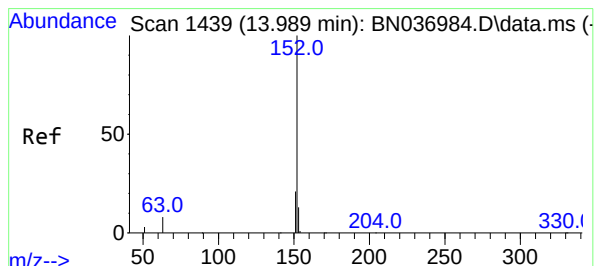
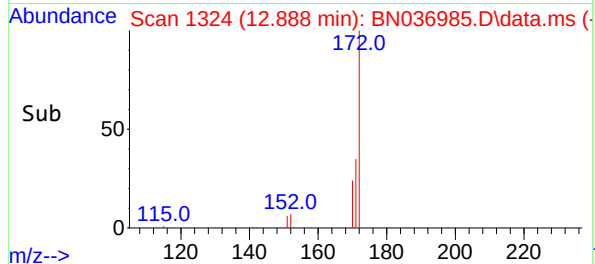
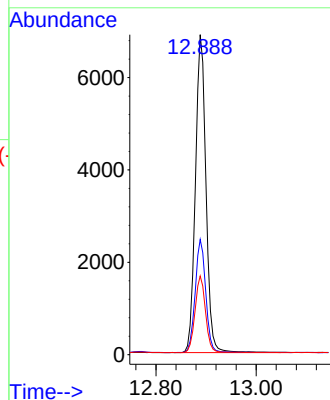
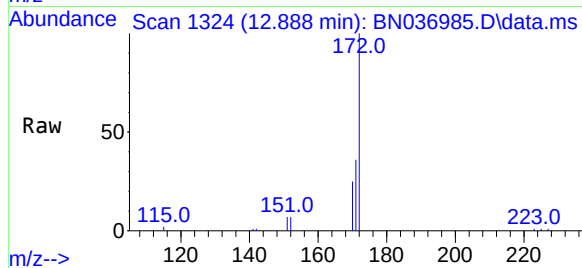




#15
2-Fluorobiphenyl
Concen: 0.80 ng
RT: 12.888 min Scan# 11371
Delta R.T. -0.000 min
Lab File: BN036985.D
Acq: 12 May 2025 15:31

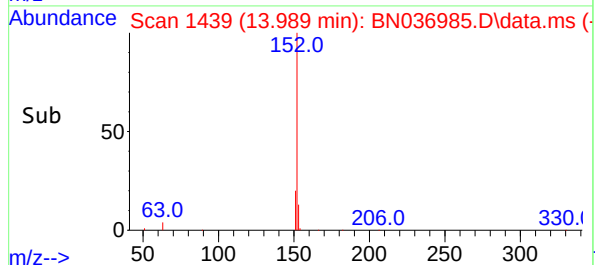
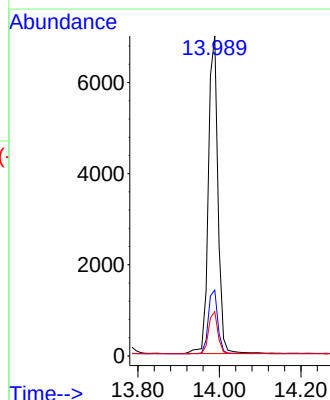
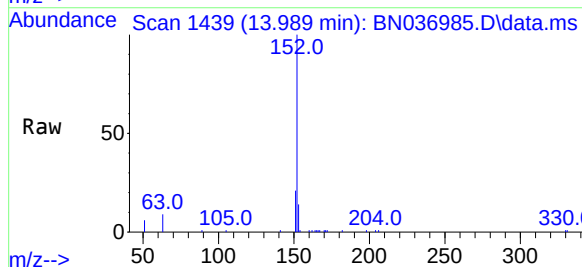
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

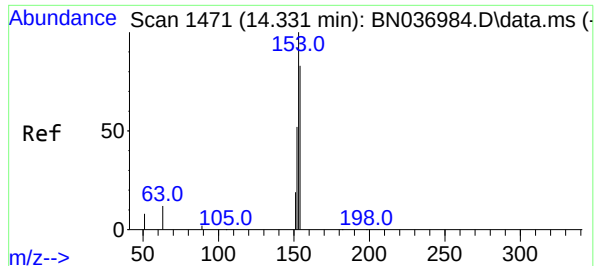
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.4	44.2
170	24.6	19.4	29.0



#16
Acenaphthylene
Concen: 0.77 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.000 min
Lab File: BN036985.D
Acq: 12 May 2025 15:31

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.4
153	12.8	10.9	16.3





#17

Acenaphthene

Concen: 0.77 ng

RT: 14.331 min Scan# 1471

Delta R.T. -0.000 min

Lab File: BN036985.D

Acq: 12 May 2025 15:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

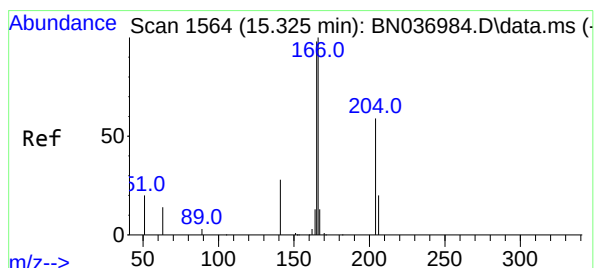
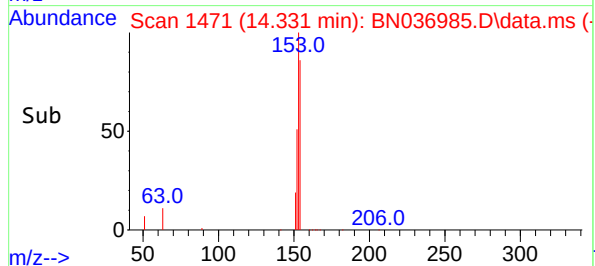
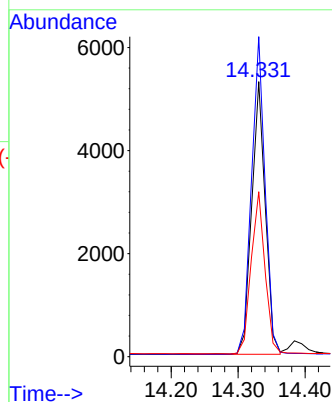
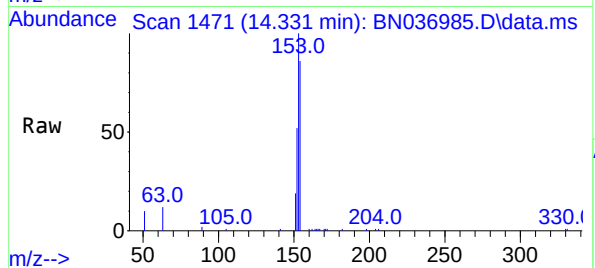
Tgt Ion:154 Resp: 7488

Ion Ratio Lower Upper

154 100

153 116.5 94.6 142.0

152 61.0 49.4 74.2



#18

Fluorene

Concen: 0.77 ng

RT: 15.325 min Scan# 1564

Delta R.T. -0.000 min

Lab File: BN036985.D

Acq: 12 May 2025 15:31

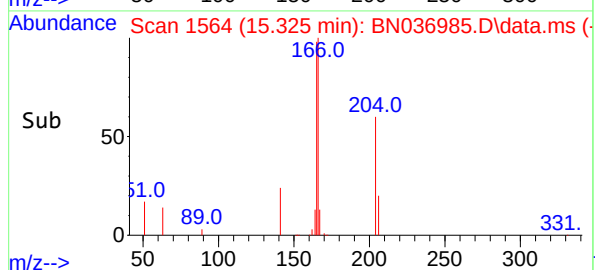
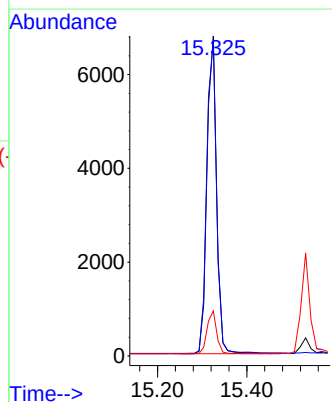
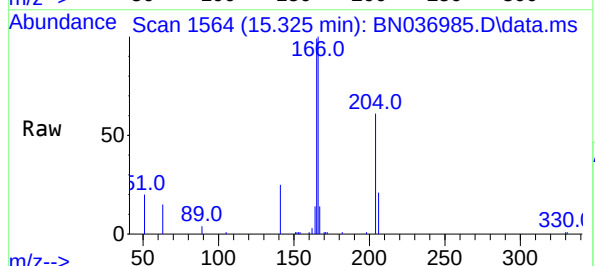
Tgt Ion:166 Resp: 10074

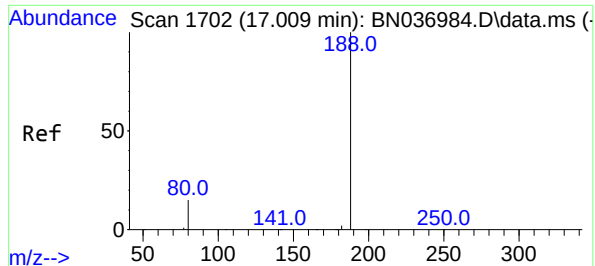
Ion Ratio Lower Upper

166 100

165 100.8 81.0 121.4

167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.40 ng

RT: 17.009 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN036985.D

Acq: 12 May 2025 15:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

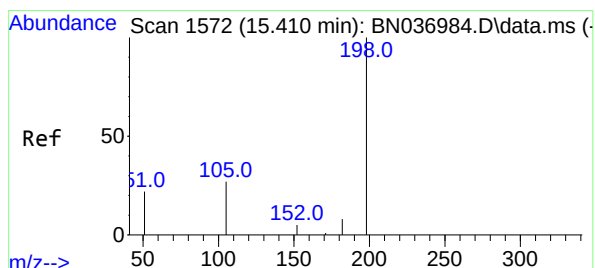
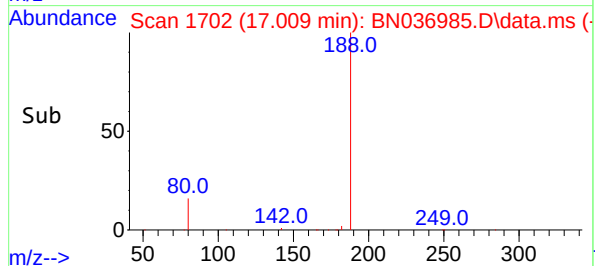
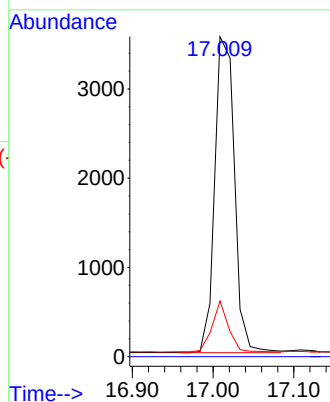
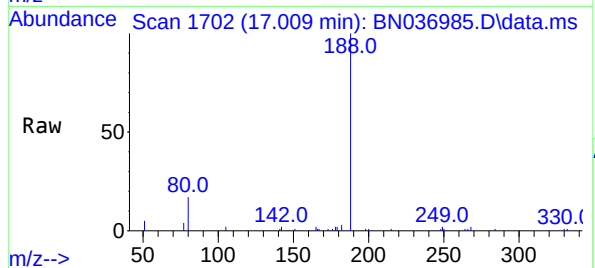
Tgt Ion:188 Resp: 5991

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 17.4 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.78 ng

RT: 15.400 min Scan# 1571

Delta R.T. -0.011 min

Lab File: BN036985.D

Acq: 12 May 2025 15:31

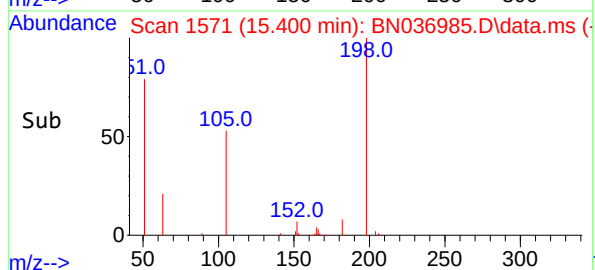
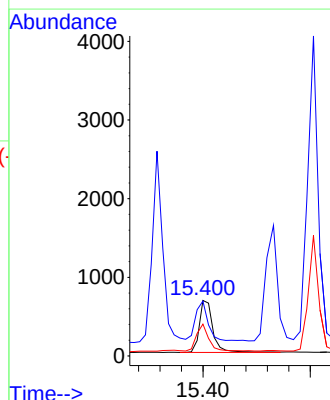
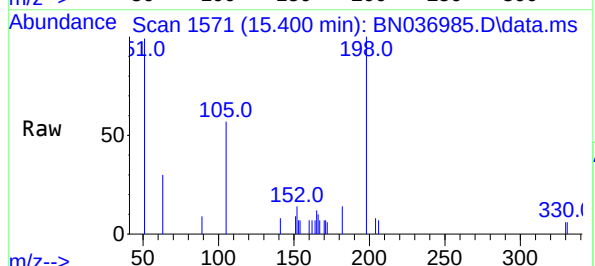
Tgt Ion:198 Resp: 1195

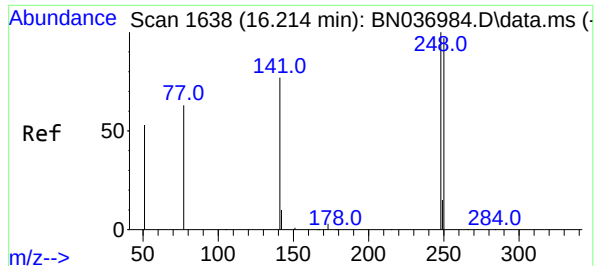
Ion Ratio Lower Upper

198 100

51 98.7 79.7 119.5

105 57.4 36.0 54.0#

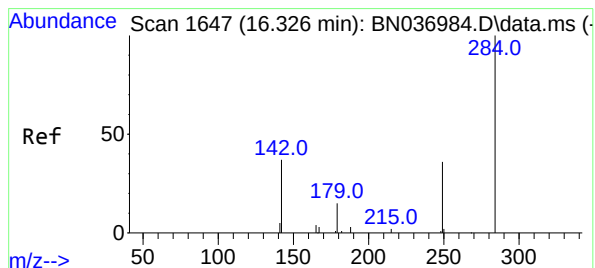
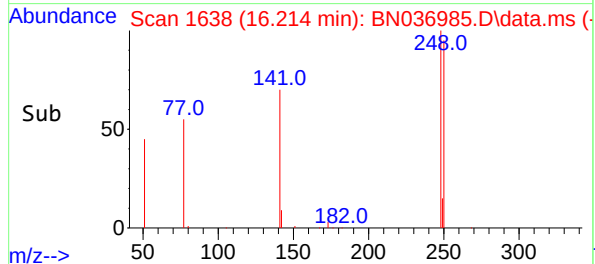
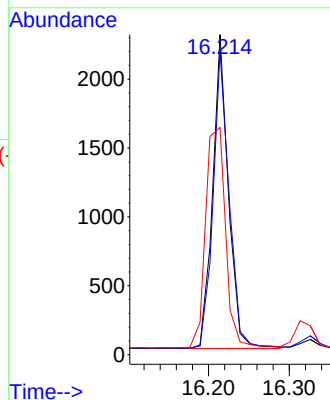
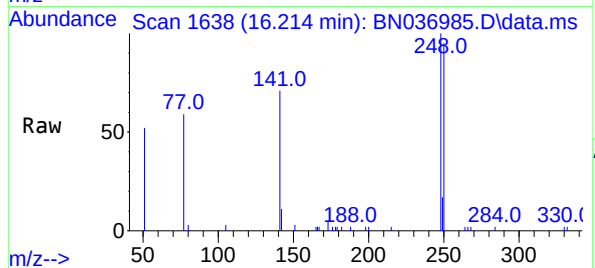




#21
4-Bromophenyl-phenylether
Concen: 0.79 ng
RT: 16.214 min Scan# 1638
Delta R.T. -0.000 min
Lab File: BN036985.D
Acq: 12 May 2025 15:31

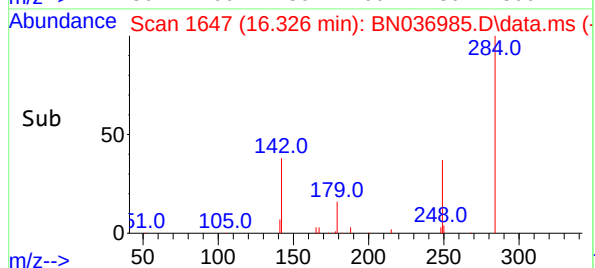
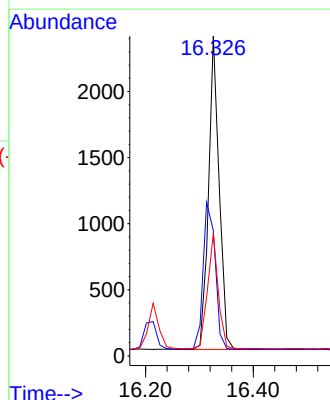
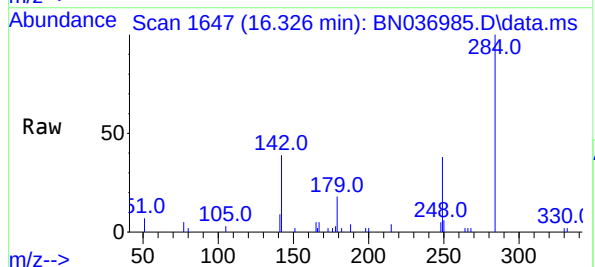
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

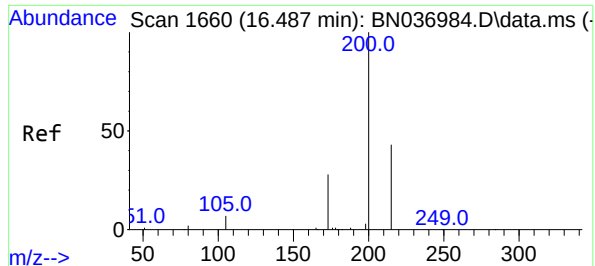
Tgt Ion: 248 Resp: 3076
Ion Ratio Lower Upper
248 100
250 94.9 77.8 116.8
141 71.0 63.1 94.7



#22
Hexachlorobenzene
Concen: 0.78 ng
RT: 16.326 min Scan# 1647
Delta R.T. -0.000 min
Lab File: BN036985.D
Acq: 12 May 2025 15:31

Tgt Ion: 284 Resp: 3239
Ion Ratio Lower Upper
284 100
142 53.8 41.4 62.2
249 36.9 29.1 43.7

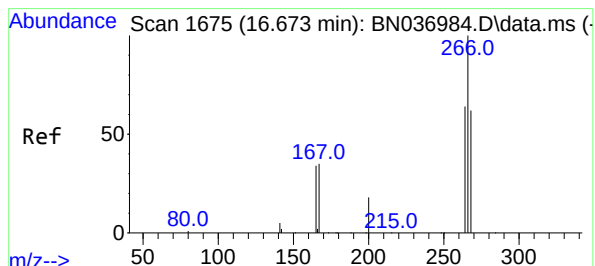
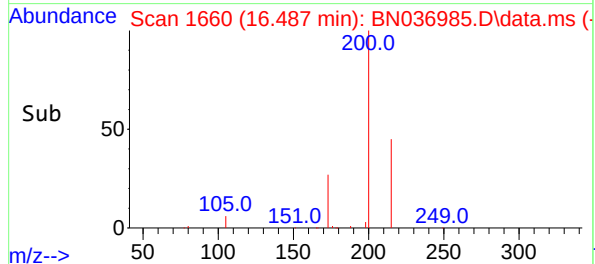
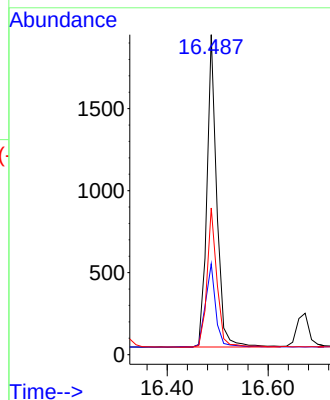
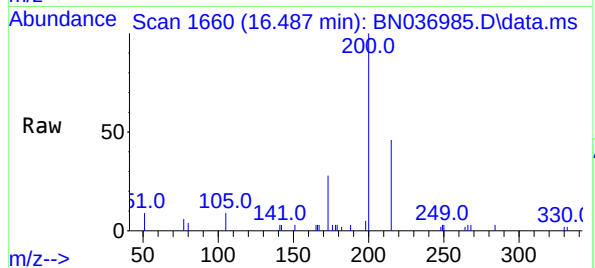




#23
Atrazine
Concen: 0.76 ng
RT: 16.487 min Scan# 1660
Delta R.T. -0.000 min
Lab File: BN036985.D
Acq: 12 May 2025 15:31

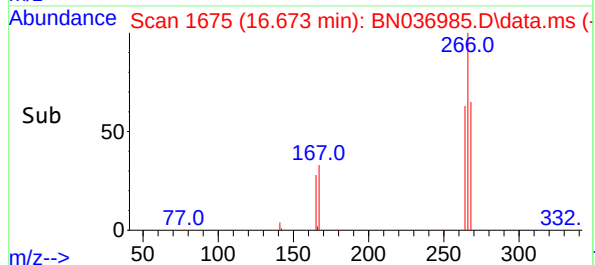
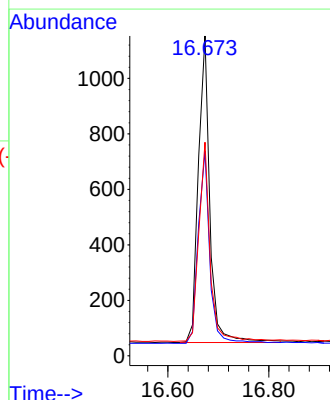
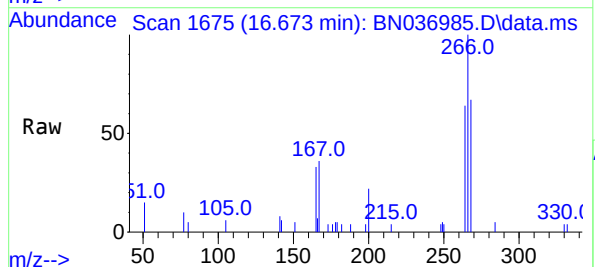
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

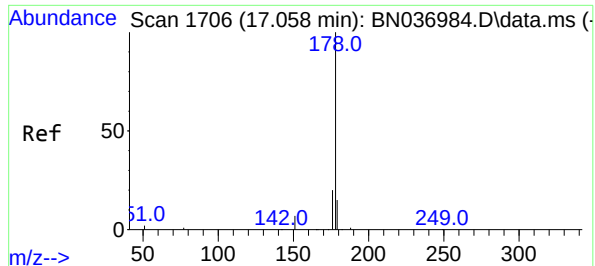
Tgt Ion:200 Resp: 2599
Ion Ratio Lower Upper
200 100
173 28.4 25.8 38.6
215 45.8 37.4 56.0



#24
Pentachlorophenol
Concen: 0.76 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.000 min
Lab File: BN036985.D
Acq: 12 May 2025 15:31

Tgt Ion:266 Resp: 1752
Ion Ratio Lower Upper
266 100
264 63.0 52.8 79.2
268 63.7 50.0 75.0

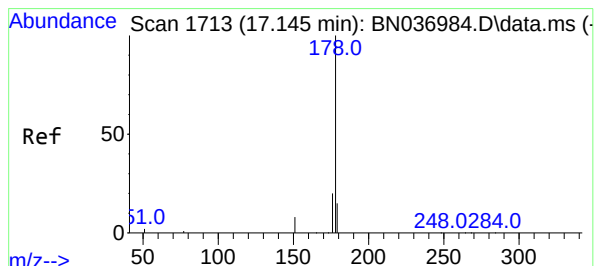
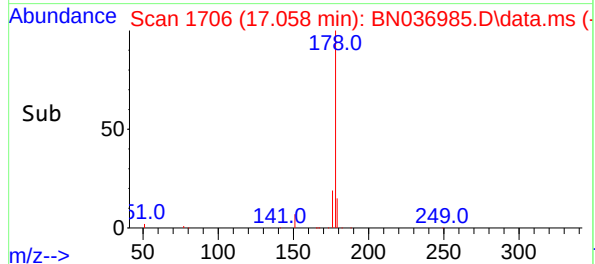
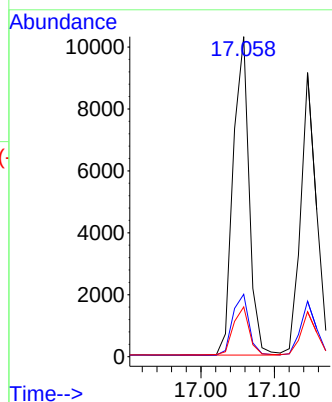
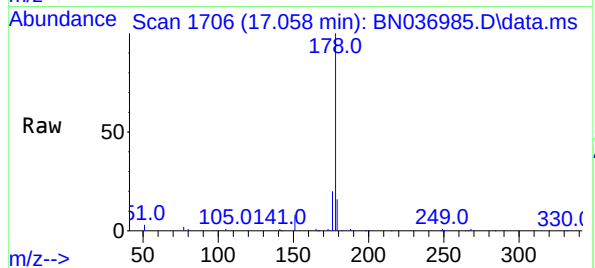




#25
Phenanthrene
Concen: 0.79 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN036985.D
Acq: 12 May 2025 15:31

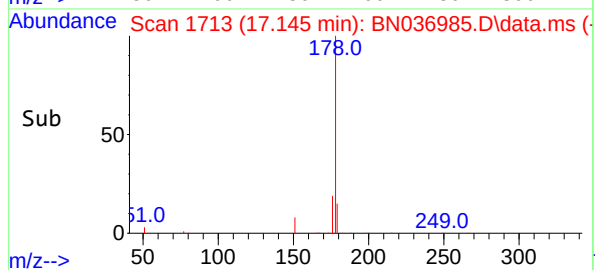
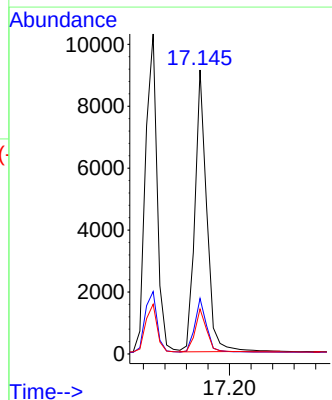
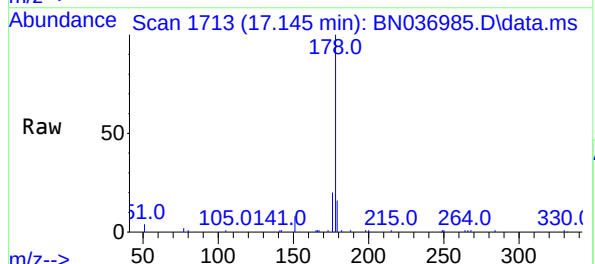
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

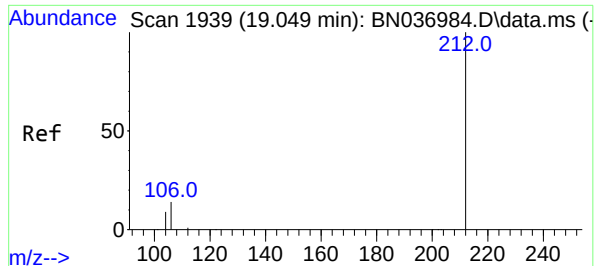
Tgt Ion:178 Resp: 15515
Ion Ratio Lower Upper
178 100
176 19.7 16.0 24.0
179 15.1 12.3 18.5



#26
Anthracene
Concen: 0.77 ng
RT: 17.145 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN036985.D
Acq: 12 May 2025 15:31

Tgt Ion:178 Resp: 13912
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.3 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.77 ng

RT: 19.049 min Scan# 1939

Delta R.T. -0.000 min

Lab File: BN036985.D

Acq: 12 May 2025 15:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

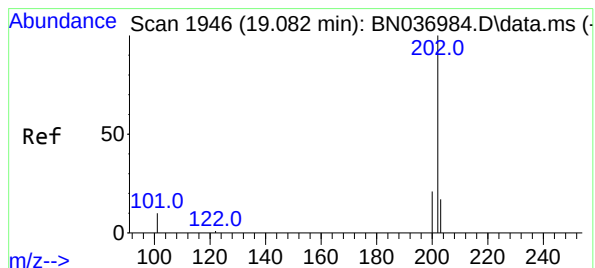
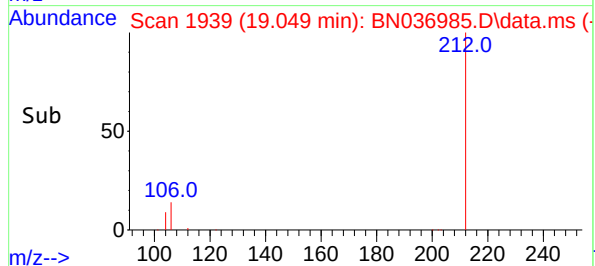
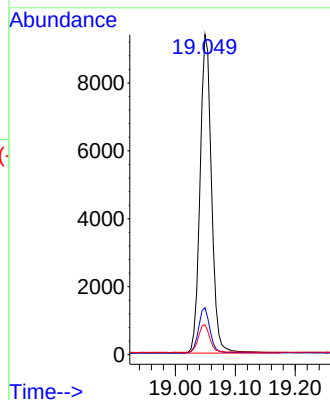
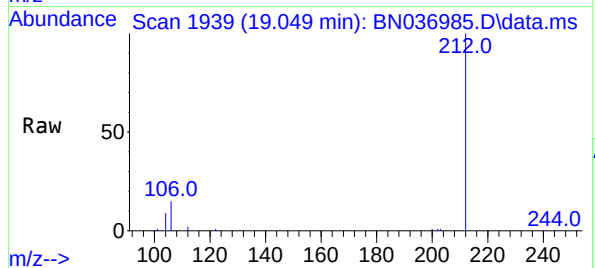
Tgt Ion:212 Resp: 12477

Ion Ratio Lower Upper

212 100

106 14.0 11.3 16.9

104 8.6 7.0 10.4



#28

Fluoranthene

Concen: 0.77 ng

RT: 19.082 min Scan# 1946

Delta R.T. -0.000 min

Lab File: BN036985.D

Acq: 12 May 2025 15:31

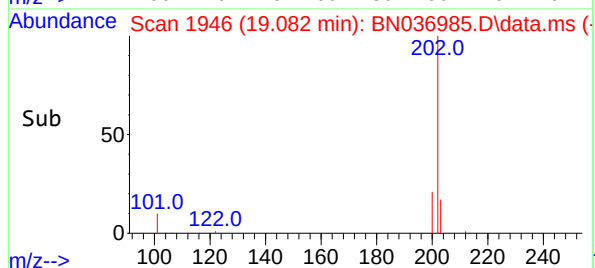
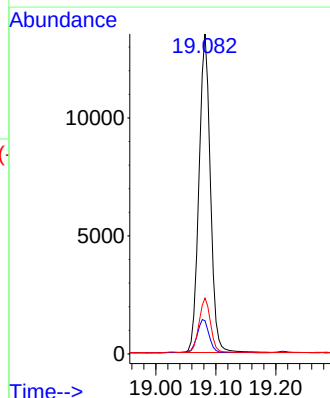
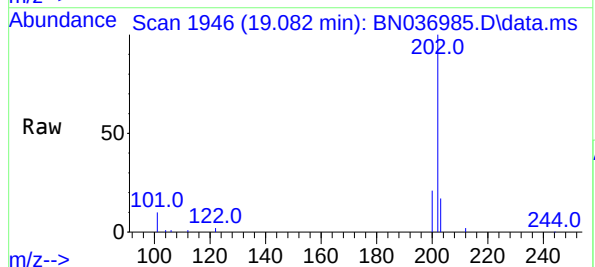
Tgt Ion:202 Resp: 17871

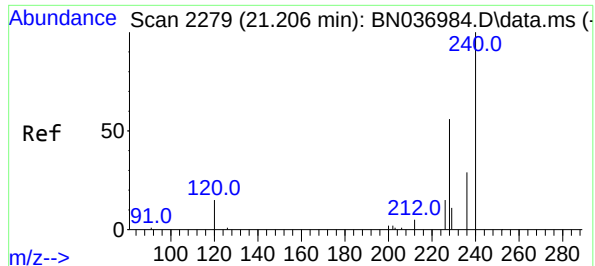
Ion Ratio Lower Upper

202 100

101 11.3 8.6 12.8

203 17.0 13.5 20.3





#29

Chrysene-d12

Concen: 0.40 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036985.D

Acq: 12 May 2025 15:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

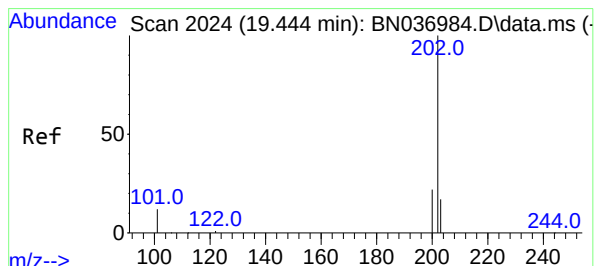
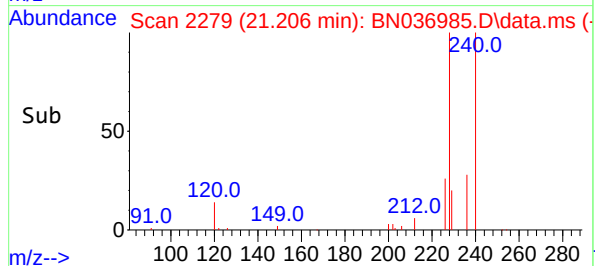
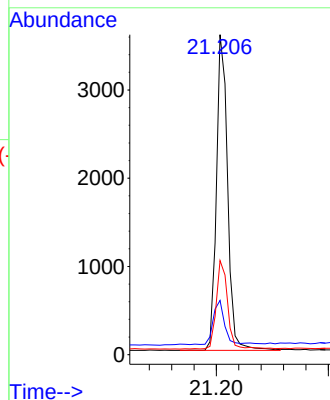
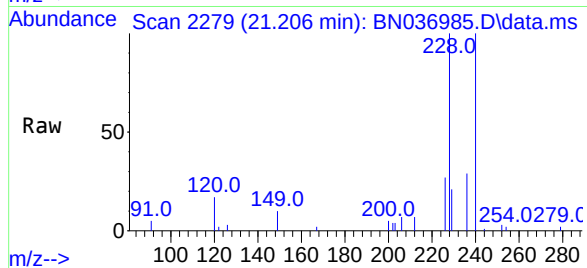
Tgt Ion:240 Resp: 4976

Ion Ratio Lower Upper

240 100

120 17.0 14.5 21.7

236 29.4 24.3 36.5



#30

Pyrene

Concen: 0.79 ng

RT: 19.444 min Scan# 2024

Delta R.T. -0.000 min

Lab File: BN036985.D

Acq: 12 May 2025 15:31

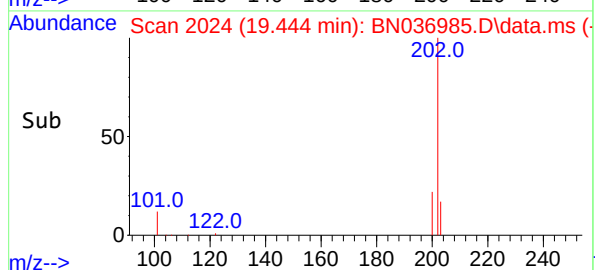
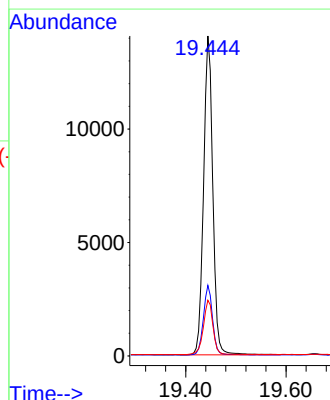
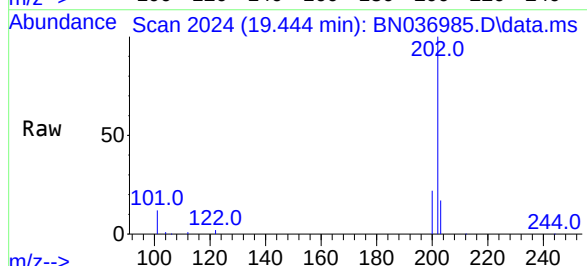
Tgt Ion:202 Resp: 17953

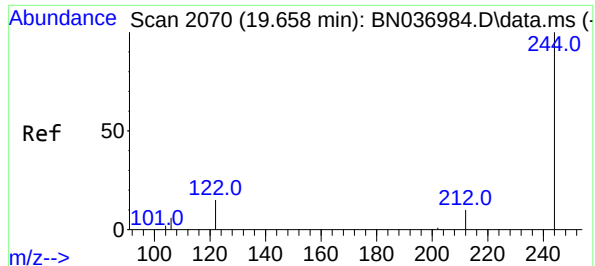
Ion Ratio Lower Upper

202 100

200 21.5 17.3 25.9

203 17.6 14.4 21.6

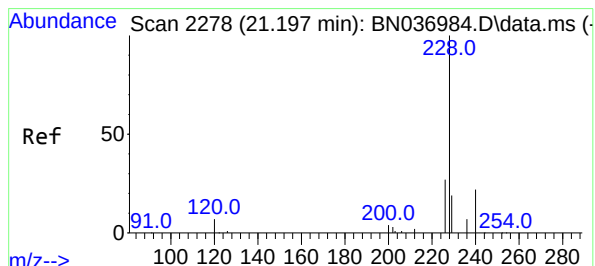
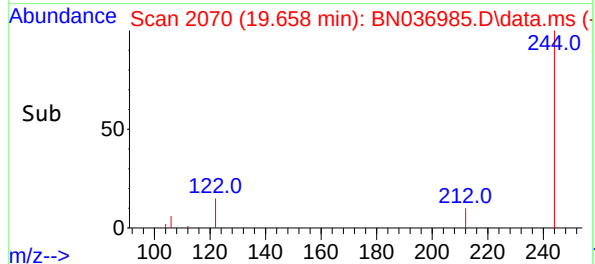
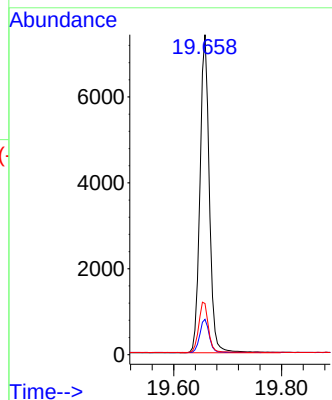
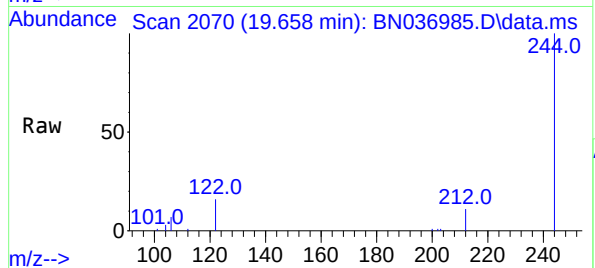




#31
Terphenyl-d14
Concen: 0.79 ng
RT: 19.658 min Scan# 2070
Delta R.T. -0.000 min
Lab File: BN036985.D
Acq: 12 May 2025 15:31

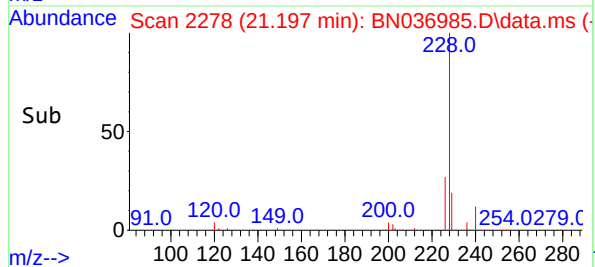
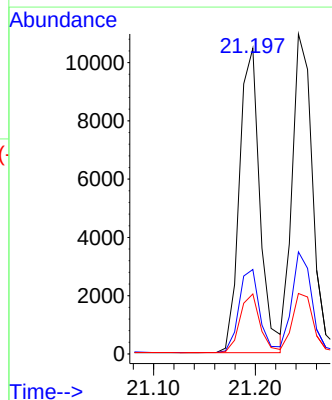
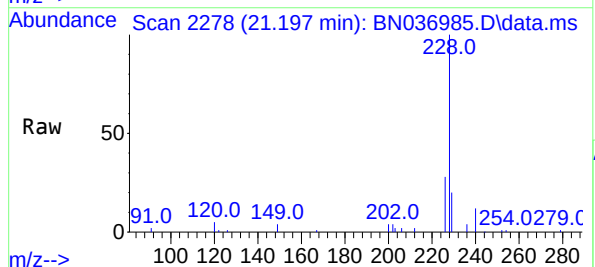
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

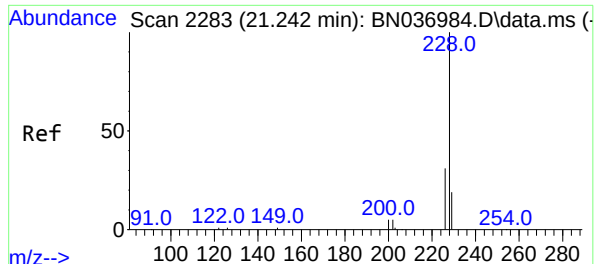
Tgt Ion:244 Resp: 8901
Ion Ratio Lower Upper
244 100
212 11.0 9.5 14.3
122 16.0 13.4 20.0



#32
Benzo(a)anthracene
Concen: 0.78 ng
RT: 21.197 min Scan# 2278
Delta R.T. -0.000 min
Lab File: BN036985.D
Acq: 12 May 2025 15:31

Tgt Ion:228 Resp: 14621
Ion Ratio Lower Upper
228 100
226 27.6 22.4 33.6
229 19.6 16.0 24.0





#33

Chrysene

Concen: 0.78 ng

RT: 21.242 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036985.D

Acq: 12 May 2025 15:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

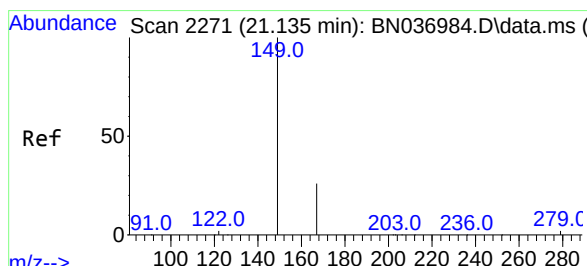
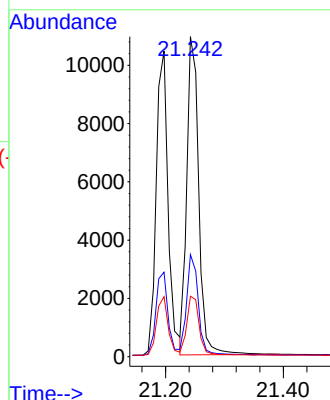
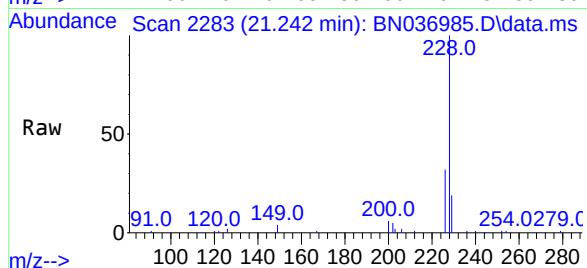
Tgt Ion:228 Resp: 15456

Ion Ratio Lower Upper

228 100

226 31.9 25.7 38.5

229 18.9 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.70 ng

RT: 21.135 min Scan# 2271

Delta R.T. -0.000 min

Lab File: BN036985.D

Acq: 12 May 2025 15:31

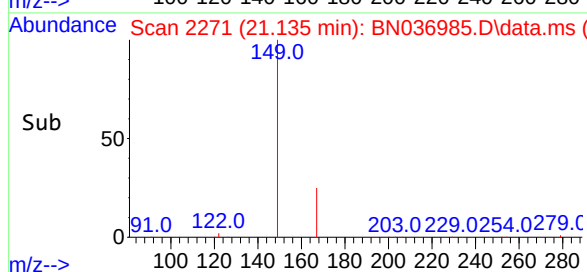
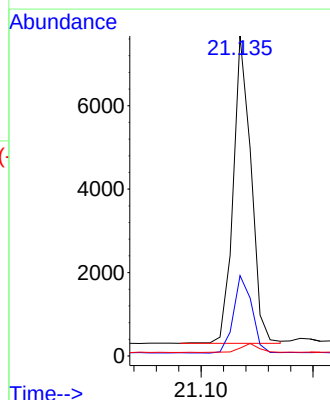
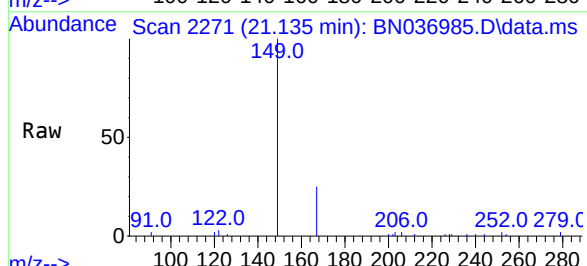
Tgt Ion:149 Resp: 8135

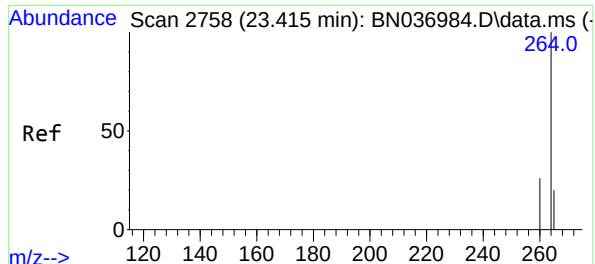
Ion Ratio Lower Upper

149 100

167 26.0 21.0 31.6

279 3.0 2.7 4.1





#35

Perylene-d12

Concen: 0.40 ng

RT: 23.415 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036985.D

Acq: 12 May 2025 15:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

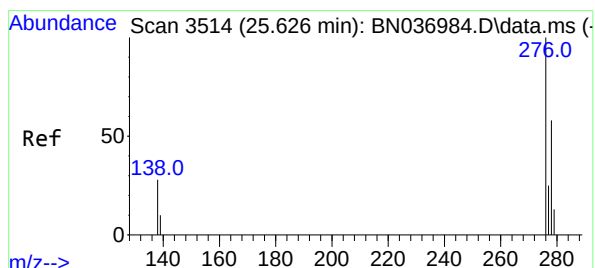
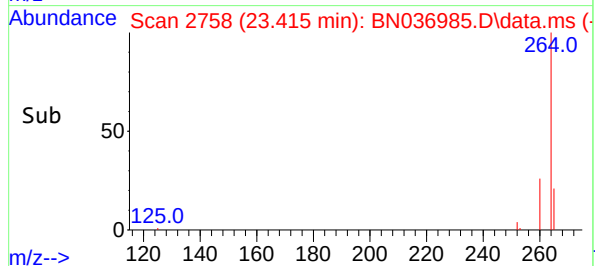
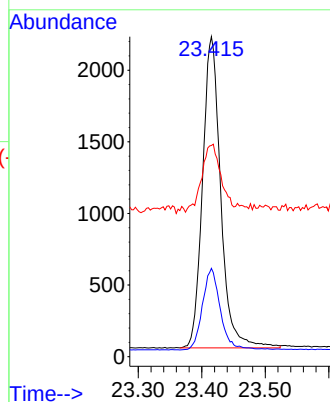
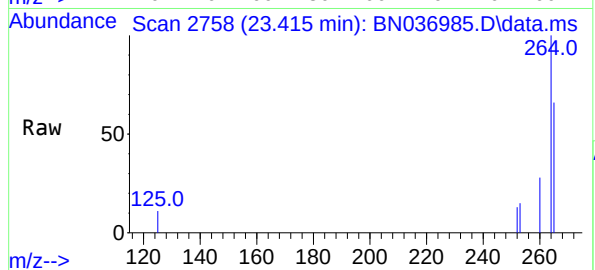
Tgt Ion:264 Resp: 4312

Ion Ratio Lower Upper

264 100

260 27.6 22.3 33.5

265 66.0 55.4 83.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.78 ng

RT: 25.623 min Scan# 3513

Delta R.T. -0.003 min

Lab File: BN036985.D

Acq: 12 May 2025 15:31

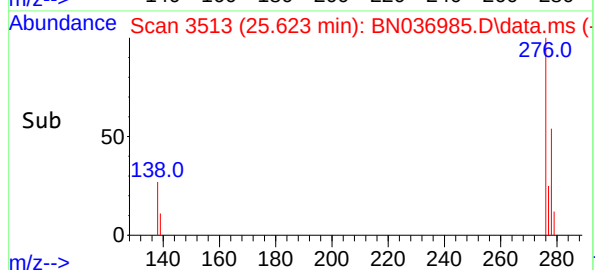
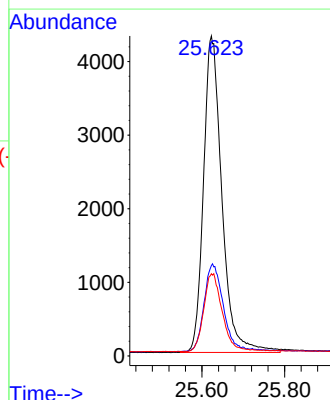
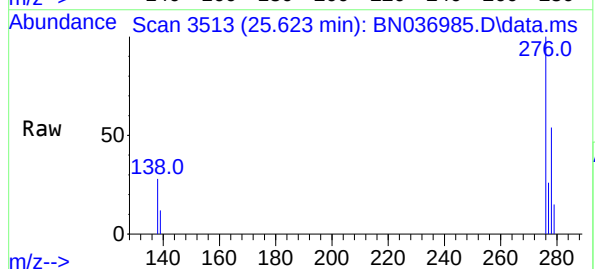
Tgt Ion:276 Resp: 13295

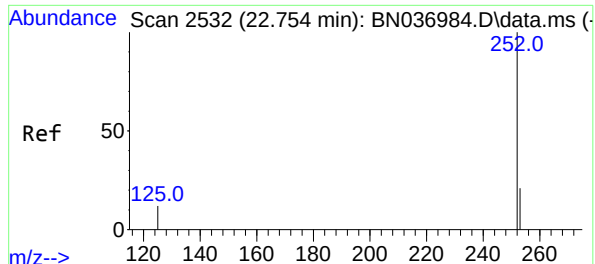
Ion Ratio Lower Upper

276 100

138 28.3 21.8 32.8

277 24.6 20.2 30.4





#37

Benzo(b)fluoranthene

Concen: 0.76 ng

RT: 22.754 min Scan# 2532

Delta R.T. -0.000 min

Lab File: BN036985.D

Acq: 12 May 2025 15:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

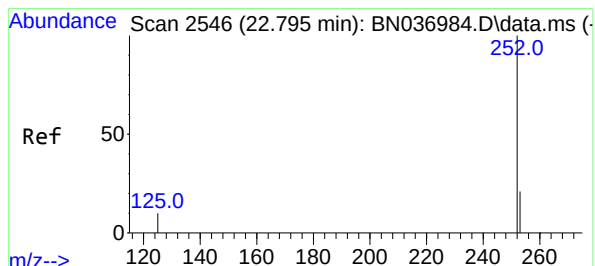
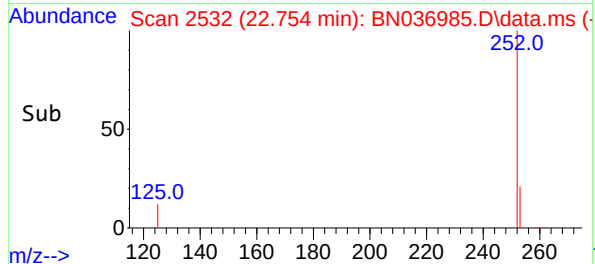
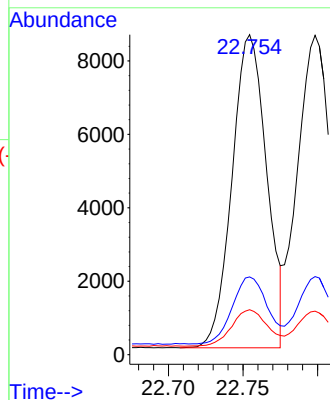
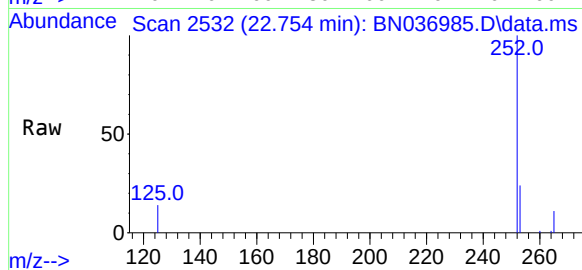
Tgt Ion:252 Resp: 13742

Ion Ratio Lower Upper

252 100

253 24.3 21.9 32.9

125 14.1 13.8 20.8



#38

Benzo(k)fluoranthene

Concen: 0.77 ng

RT: 22.798 min Scan# 2547

Delta R.T. 0.003 min

Lab File: BN036985.D

Acq: 12 May 2025 15:31

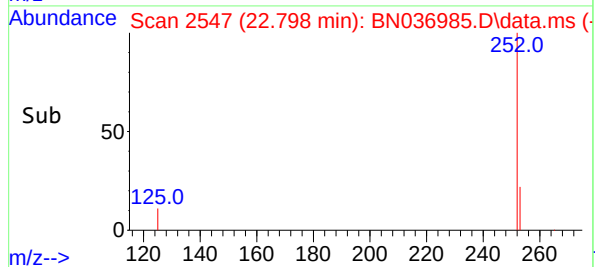
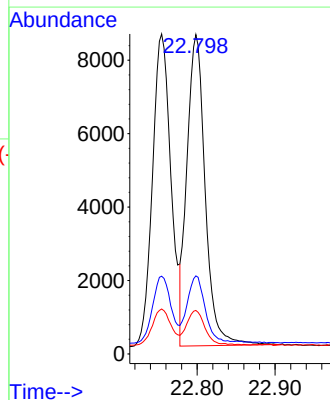
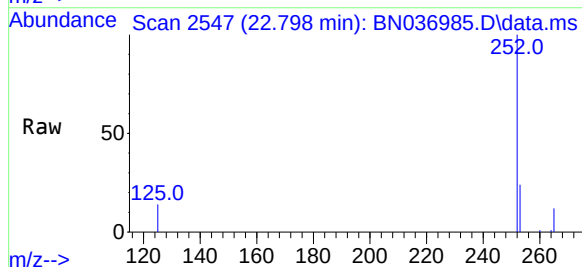
Tgt Ion:252 Resp: 13773

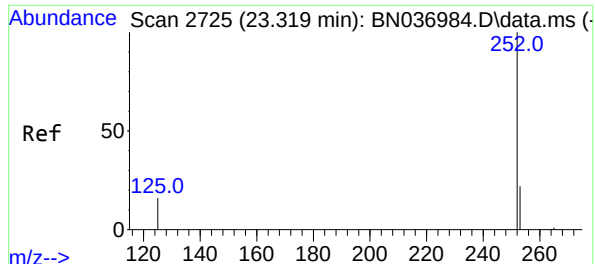
Ion Ratio Lower Upper

252 100

253 24.4 22.0 33.0

125 13.6 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.76 ng

RT: 23.316 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036985.D

Acq: 12 May 2025 15:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

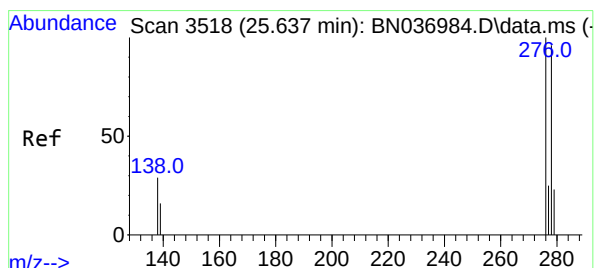
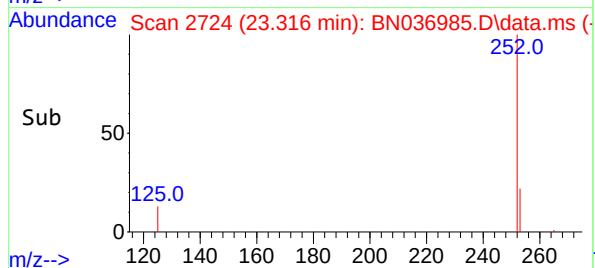
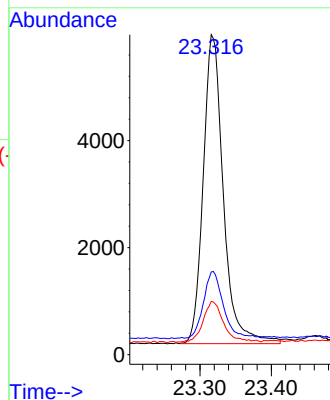
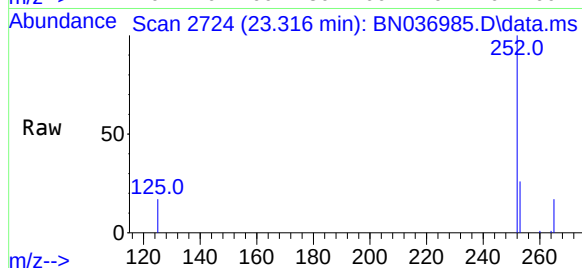
Tgt Ion:252 Resp: 11335

Ion Ratio Lower Upper

252 100

253 25.8 24.8 37.2

125 16.6 18.6 28.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.79 ng

RT: 25.640 min Scan# 3519

Delta R.T. 0.003 min

Lab File: BN036985.D

Acq: 12 May 2025 15:31

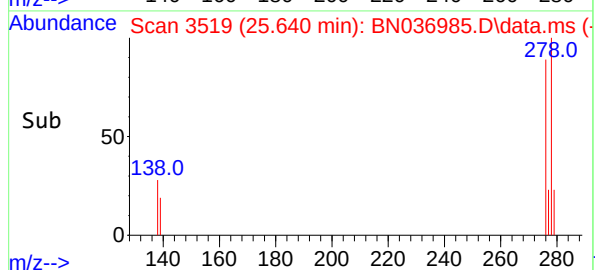
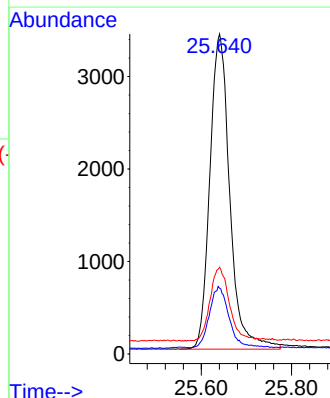
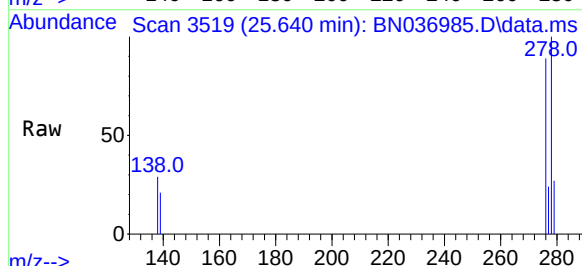
Tgt Ion:278 Resp: 10442

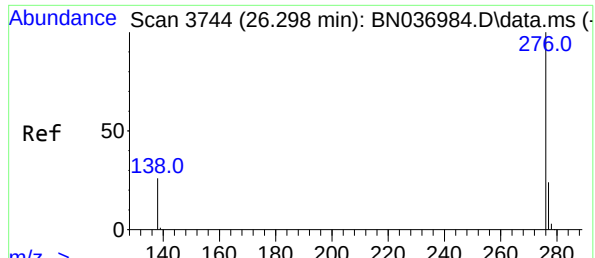
Ion Ratio Lower Upper

278 100

139 20.5 18.1 27.1

279 27.1 25.3 37.9





#41

Benzo(g,h,i)perylene

Concen: 0.78 ng

RT: 26.301 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN036985.D

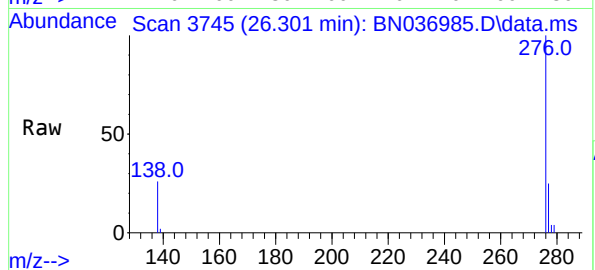
Acq: 12 May 2025 15:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



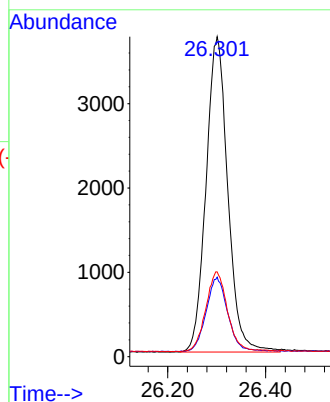
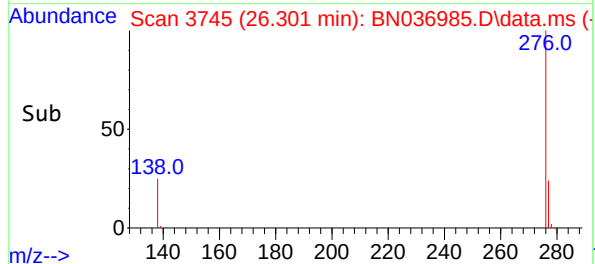
Tgt Ion:276 Resp: 11500

Ion Ratio Lower Upper

276 100

277 24.9 21.2 31.8

138 26.5 22.6 33.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051225\
 Data File : BN036986.D
 Acq On : 12 May 2025 16:07
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: May 12 17:53:29 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 12 17:44:09 2025
 Response via : Initial Calibration

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

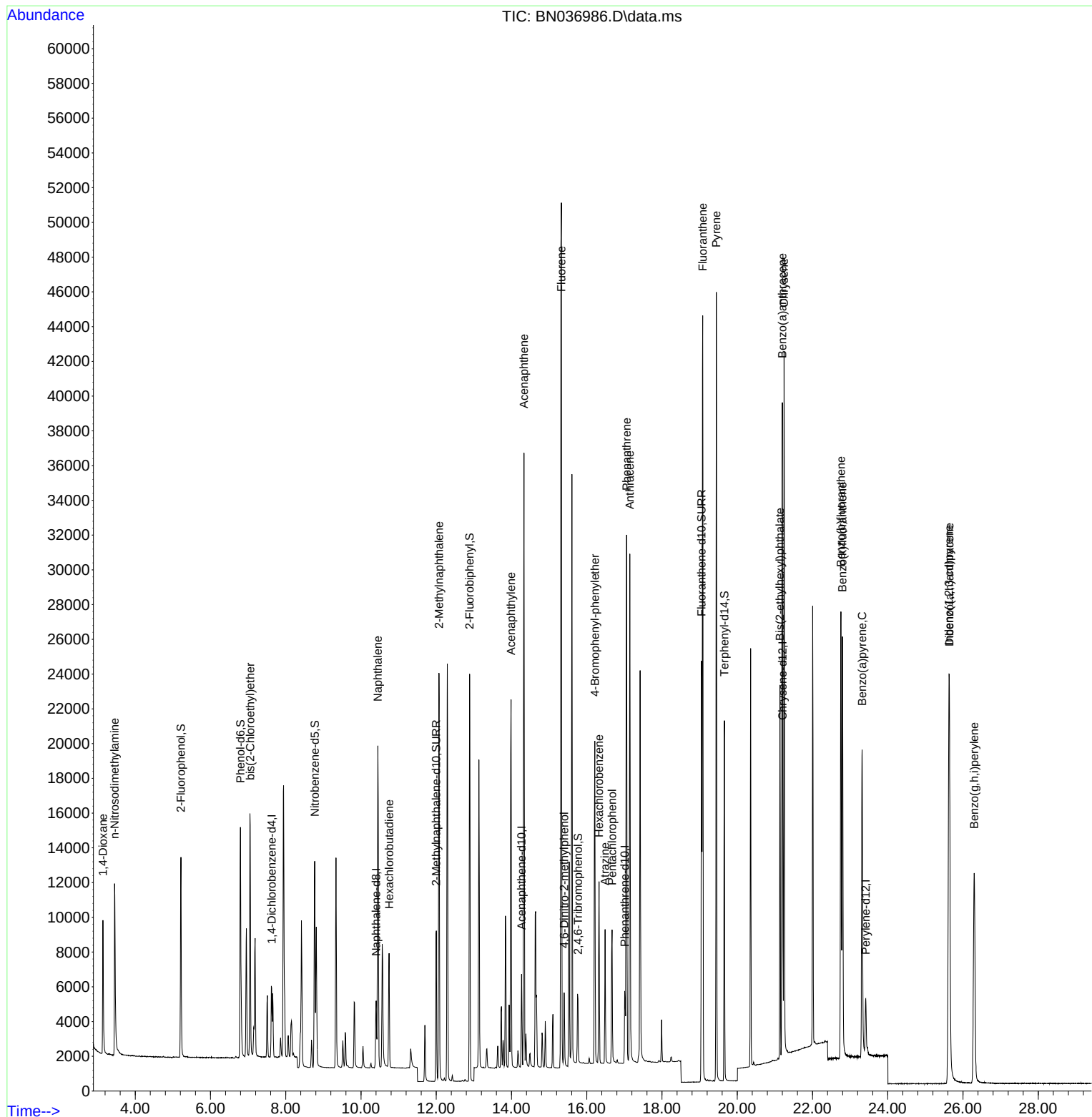
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.625	152	1916	0.40	ng	0.00
7) Naphthalene-d8	10.404	136	4821	0.40	ng	0.00
13) Acenaphthene-d10	14.267	164	2810	0.40	ng	0.00
19) Phenanthrene-d10	17.009	188	5692	0.40	ng	0.00
29) Chrysene-d12	21.206	240	4903	0.40	ng	0.00
35) Perylene-d12	23.415	264	4252	0.40	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	7920	1.60	ng	0.00
5) Phenol-d6	6.795	99	9795	1.64	ng	0.00
8) Nitrobenzene-d5	8.771	82	8749	1.72	ng	0.00
11) 2-Methylnaphthalene-d10	12.001	152	11533	1.70	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	2159	1.68	ng	0.00
15) 2-Fluorobiphenyl	12.888	172	22247	1.70	ng	0.00
27) Fluoranthene-d10	19.049	212	25587	1.65	ng	0.00
31) Terphenyl-d14	19.658	244	18495	1.67	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.140	88	4055	1.63	ng	98
3) n-Nitrosodimethylamine	3.451	42	8346	1.65	ng	99
6) bis(2-Chloroethyl)ether	7.055	93	9401	1.69	ng	99
9) Naphthalene	10.447	128	23450	1.67	ng	97
10) Hexachlorobutadiene	10.746	225	4985	1.66	ng	# 100
12) 2-Methylnaphthalene	12.072	142	15597	1.72	ng	98
16) Acenaphthylene	13.989	152	23271	1.69	ng	99
17) Acenaphthene	14.331	154	15270	1.69	ng	98
18) Fluorene	15.325	166	20324	1.68	ng	99
20) 4,6-Dinitro-2-methylph...	15.400	198	2596	1.78	ng	# 86
21) 4-Bromophenyl-phenylether	16.214	248	6197	1.68	ng	95
22) Hexachlorobenzene	16.326	284	6544	1.65	ng	99
23) Atrazine	16.487	200	5449	1.67	ng	93
24) Pentachlorophenol	16.673	266	3665	1.67	ng	97
25) Phenanthrene	17.058	178	31199	1.67	ng	99
26) Anthracene	17.145	178	28988	1.70	ng	100
28) Fluoranthene	19.082	202	37228	1.69	ng	99
30) Pyrene	19.444	202	37493	1.68	ng	99
32) Benzo(a)anthracene	21.198	228	31666	1.71	ng	98
33) Chrysene	21.242	228	32666	1.67	ng	99
34) Bis(2-ethylhexyl)phtha...	21.135	149	18017	1.58	ng	99
36) Indeno(1,2,3-cd)pyrene	25.626	276	28269	1.68	ng	97
37) Benzo(b)fluoranthene	22.755	252	30288	1.71	ng	# 91
38) Benzo(k)fluoranthene	22.795	252	30597	1.74	ng	# 91
39) Benzo(a)pyrene	23.319	252	25092	1.70	ng	# 84
40) Dibenzo(a,h)anthracene	25.637	278	22229	1.70	ng	# 91
41) Benzo(g,h,i)perylene	26.298	276	24121	1.66	ng	95

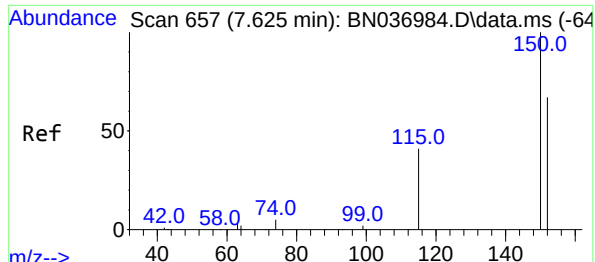
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051225\
Data File : BN036986.D
Acq On : 12 May 2025 16:07
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: May 12 17:53:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 12 17:44:09 2025
Response via : Initial Calibration

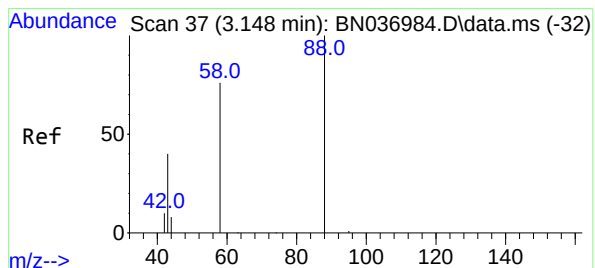
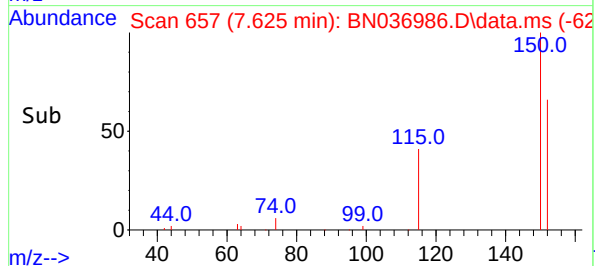
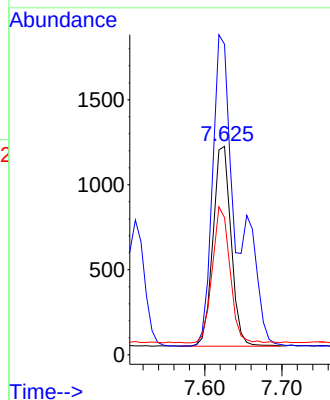
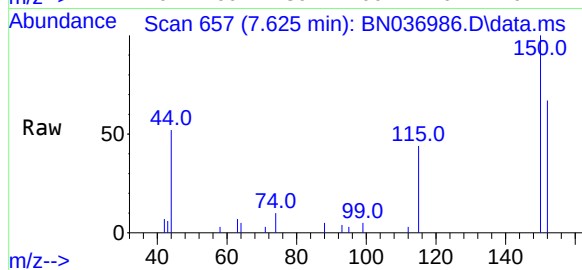




#1
1,4-Dichlorobenzene-d4
Concen: 0.40 ng
RT: 7.625 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036986.D
Acq: 12 May 2025 16:07

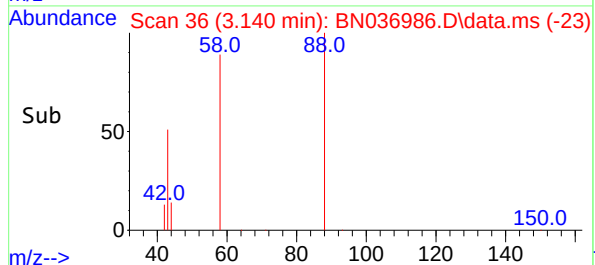
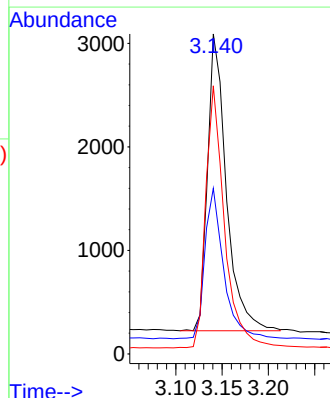
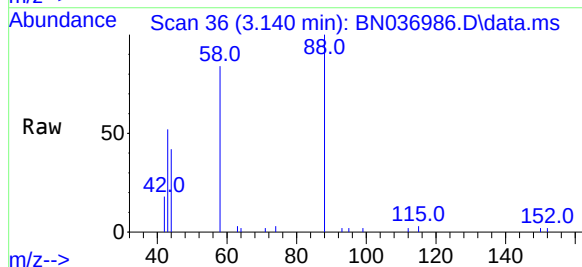
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 1916
Ion Ratio Lower Upper
152 100
150 149.0 118.2 177.4
115 65.8 52.5 78.7

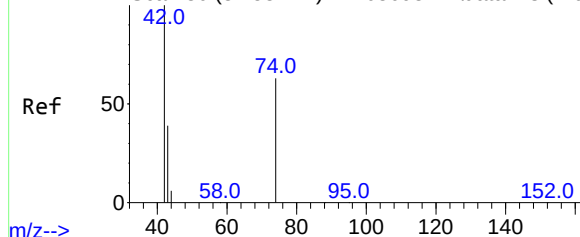


#2
1,4-Dioxane
Concen: 1.63 ng
RT: 3.140 min Scan# 36
Delta R.T. -0.007 min
Lab File: BN036986.D
Acq: 12 May 2025 16:07

Tgt Ion: 88 Resp: 4055
Ion Ratio Lower Upper
88 100
43 50.6 43.3 64.9
58 88.2 70.7 106.1



Abundance Scan 80 (3.458 min): BN036984.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 1.65 ng

RT: 3.451 min Scan# 79

Delta R.T. -0.007 min

Lab File: BN036986.D

Acq: 12 May 2025 16:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Tgt Ion: 42 Resp: 8346

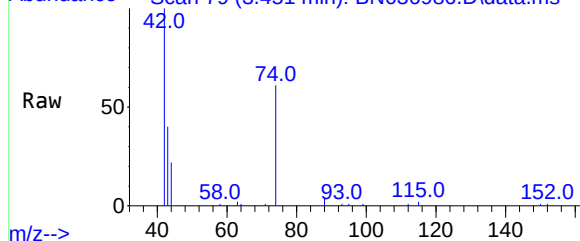
Ion Ratio Lower Upper

42 100

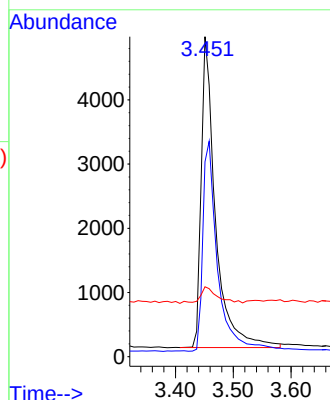
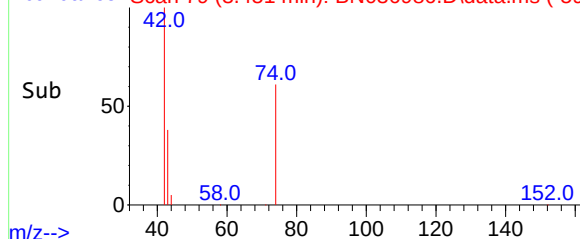
74 69.8 55.2 82.8

44 6.4 4.7 7.1

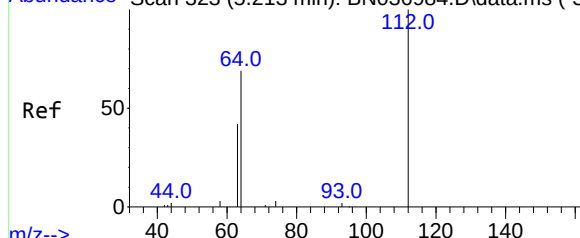
Abundance Scan 79 (3.451 min): BN036986.D\data.ms



Abundance Scan 79 (3.451 min): BN036986.D\data.ms (-59)



Abundance Scan 323 (5.213 min): BN036984.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 1.60 ng

RT: 5.213 min Scan# 323

Delta R.T. 0.000 min

Lab File: BN036986.D

Acq: 12 May 2025 16:07

Tgt Ion: 112 Resp: 7920

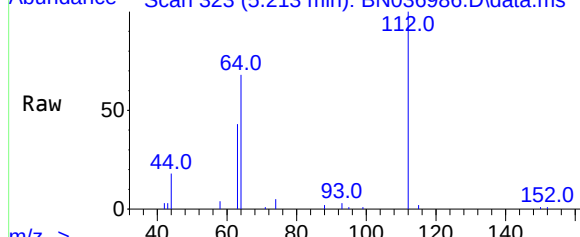
Ion Ratio Lower Upper

112 100

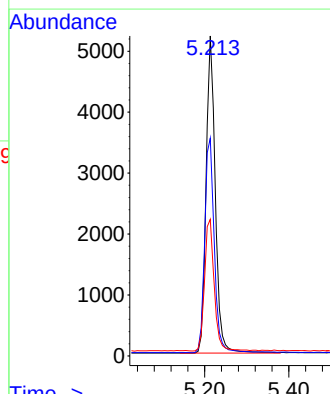
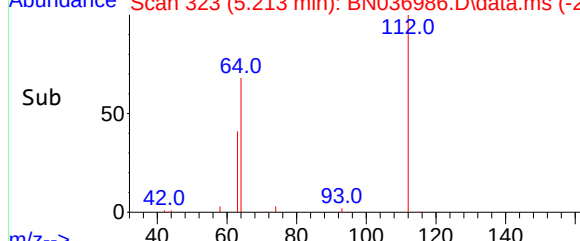
64 70.2 56.2 84.2

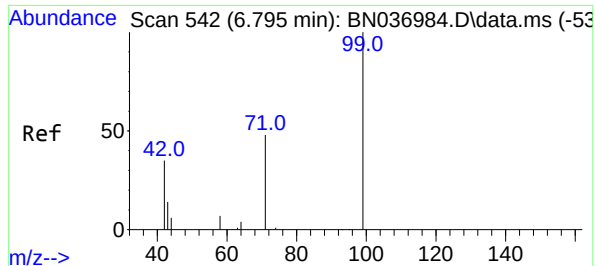
63 43.4 34.3 51.5

Abundance Scan 323 (5.213 min): BN036986.D\data.ms



Abundance Scan 323 (5.213 min): BN036986.D\data.ms (-29)





#5

Phenol-d6

Concen: 1.64 ng

RT: 6.795 min Scan# 54

Delta R.T. 0.000 min

Lab File: BN036986.D

Acq: 12 May 2025 16:07

Instrument :

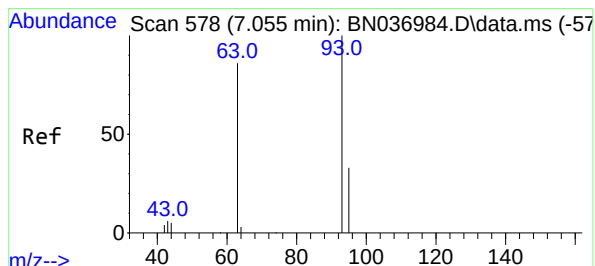
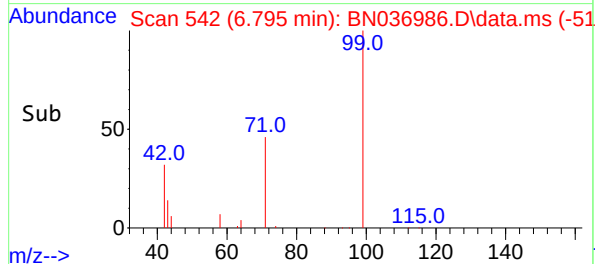
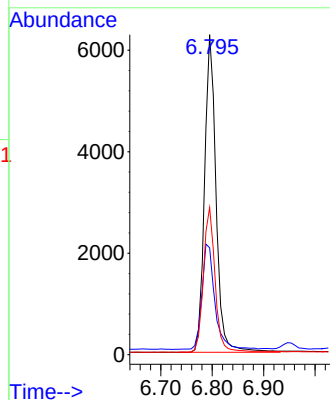
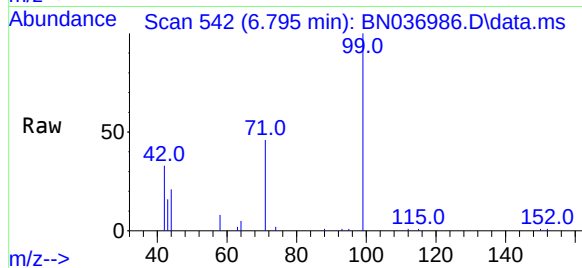
BNA_N

ClientSampleId :

SSTDICC1.6

Tgt Ion: 99 Resp: 9795

Ion	Ratio	Lower	Upper
99	100		
42	37.1	29.0	43.6
71	46.2	36.2	54.2



#6

bis(2-Chloroethyl)ether

Concen: 1.69 ng

RT: 7.055 min Scan# 578

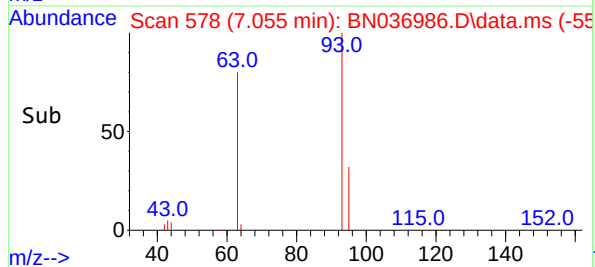
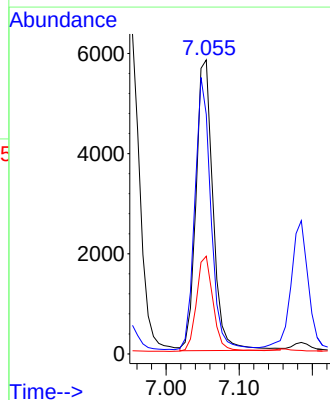
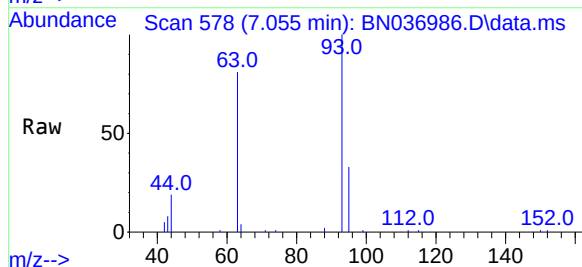
Delta R.T. 0.000 min

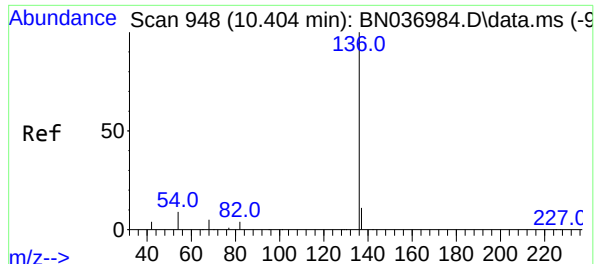
Lab File: BN036986.D

Acq: 12 May 2025 16:07

Tgt Ion: 93 Resp: 9401

Ion	Ratio	Lower	Upper
93	100		
63	87.7	69.6	104.4
95	32.1	25.1	37.7

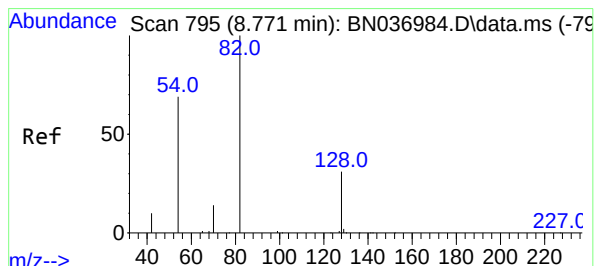
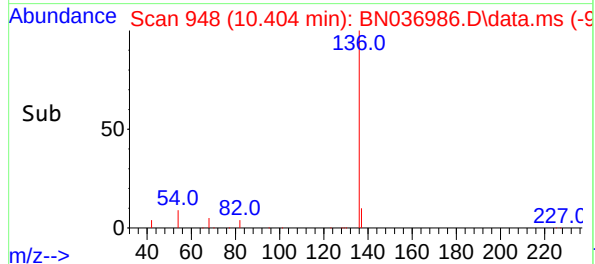
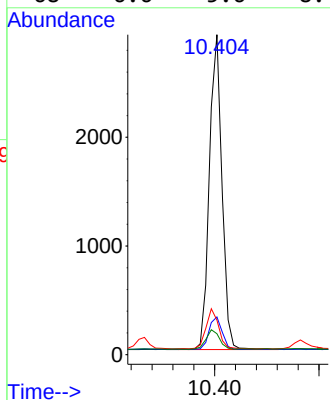
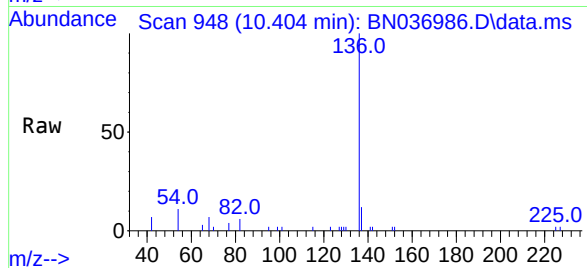




#7
Naphthalene-d8
Concen: 0.40 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN036986.D
Acq: 12 May 2025 16:07

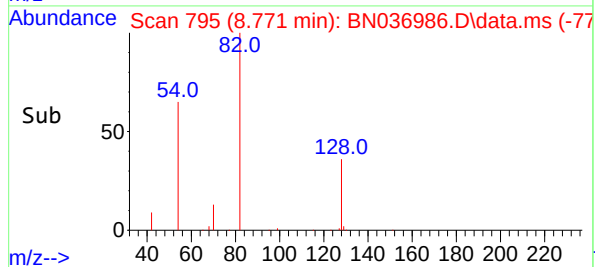
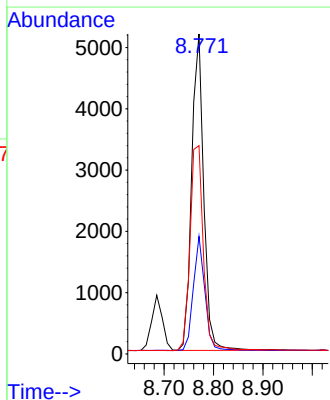
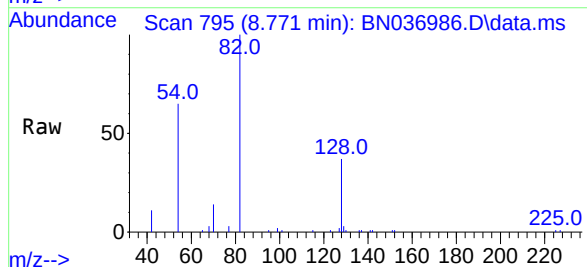
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

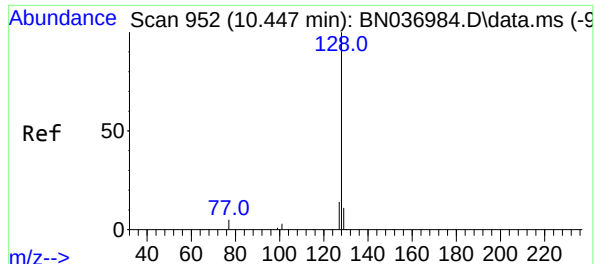
Tgt Ion:	136	Resp:	4821
Ion	Ratio	Lower	Upper
136	100		
137	11.8	10.3	15.5
54	10.8	9.2	13.8
68	6.6	5.6	8.4



#8
Nitrobenzene-d5
Concen: 1.72 ng
RT: 8.771 min Scan# 795
Delta R.T. 0.000 min
Lab File: BN036986.D
Acq: 12 May 2025 16:07

Tgt Ion:	82	Resp:	8749
Ion	Ratio	Lower	Upper
82	100		
128	36.8	28.1	42.1
54	65.1	56.4	84.6

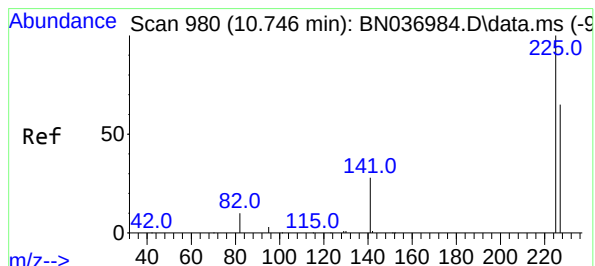
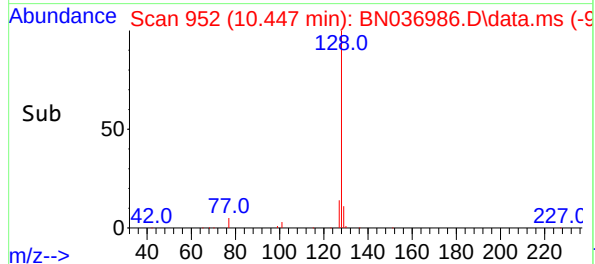
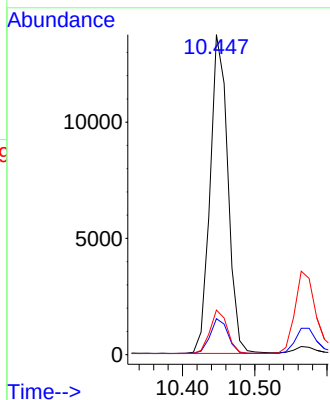
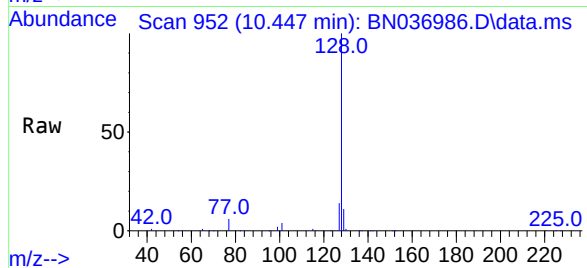




#9
Naphthalene
Concen: 1.67 ng
RT: 10.447 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036986.D
Acq: 12 May 2025 16:07

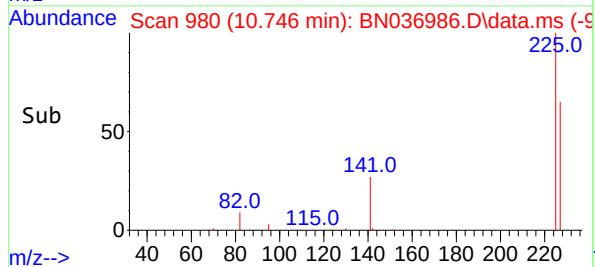
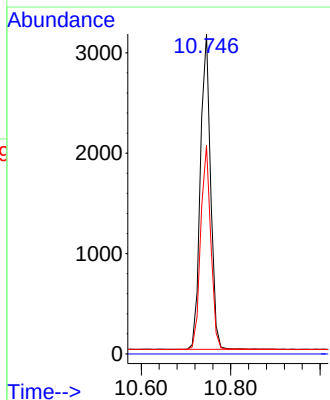
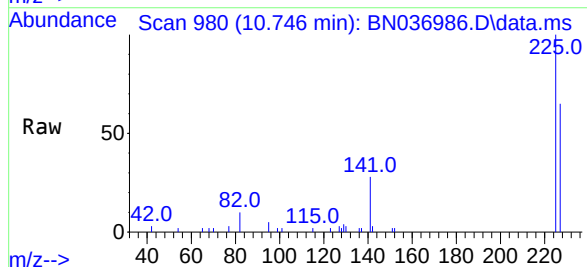
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

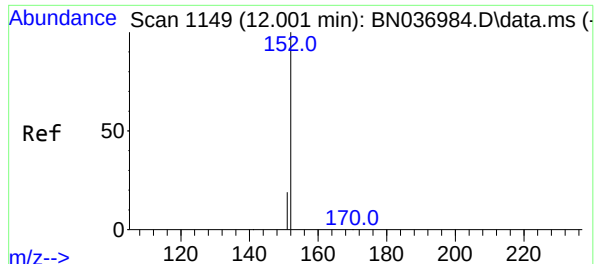
Tgt Ion:128 Resp: 23450
Ion Ratio Lower Upper
128 100
129 11.3 10.0 15.0
127 13.9 12.1 18.1



#10
Hexachlorobutadiene
Concen: 1.66 ng
RT: 10.746 min Scan# 980
Delta R.T. 0.000 min
Lab File: BN036986.D
Acq: 12 May 2025 16:07

Tgt Ion:225 Resp: 4985
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.2 51.2 76.8

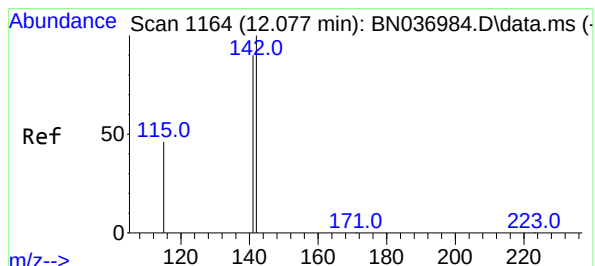
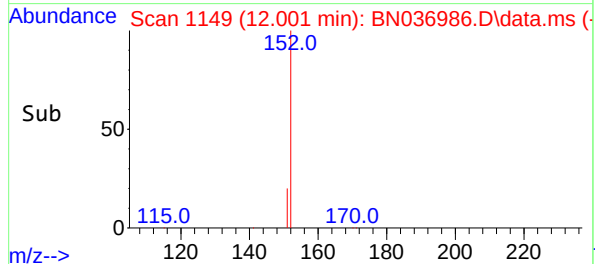
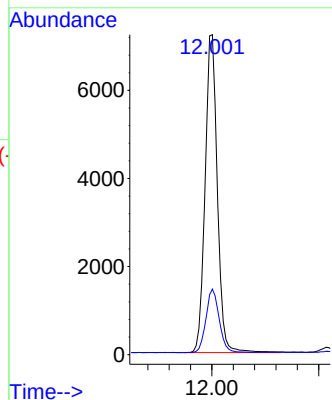
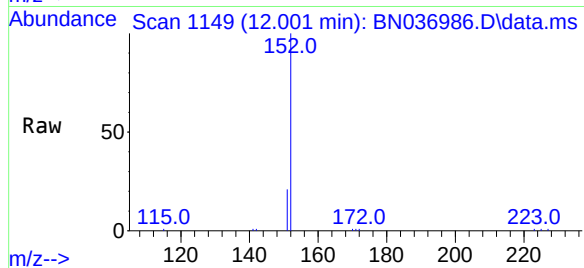




#11
2-Methylnaphthalene-d10
Concen: 1.70 ng
RT: 12.001 min Scan# 1149
Delta R.T. 0.000 min
Lab File: BN036986.D
Acq: 12 May 2025 16:07

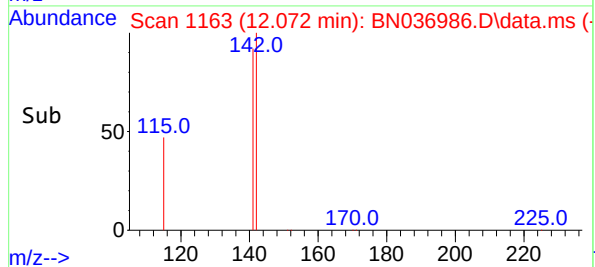
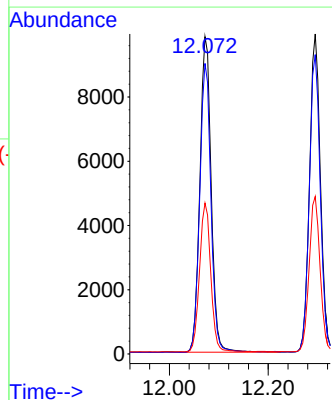
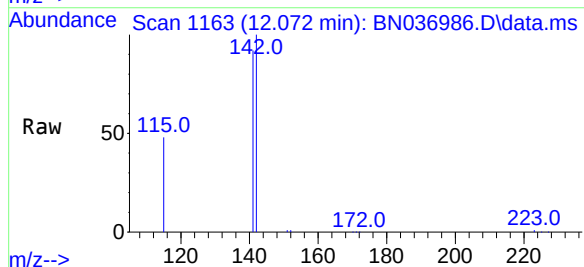
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

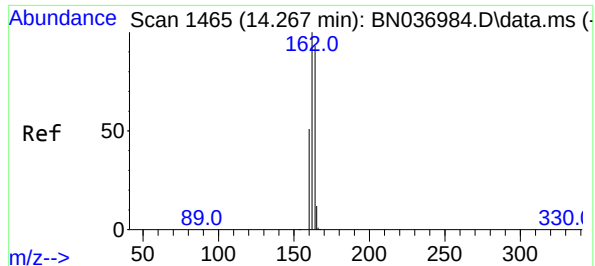
Tgt Ion:152 Resp: 11533
Ion Ratio Lower Upper
152 100
151 21.7 17.4 26.2



#12
2-Methylnaphthalene
Concen: 1.72 ng
RT: 12.072 min Scan# 1163
Delta R.T. -0.005 min
Lab File: BN036986.D
Acq: 12 May 2025 16:07

Tgt Ion:142 Resp: 15597
Ion Ratio Lower Upper
142 100
141 91.6 71.8 107.8
115 47.6 38.6 58.0

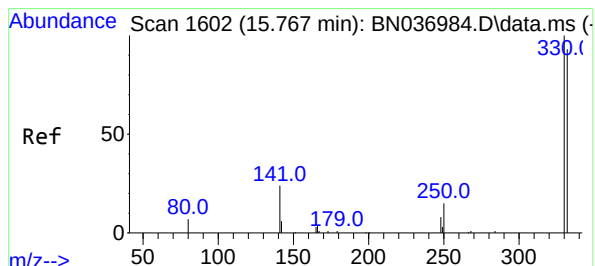
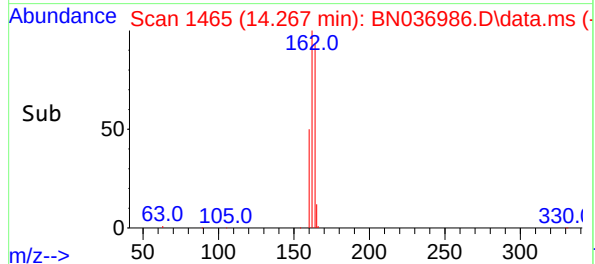
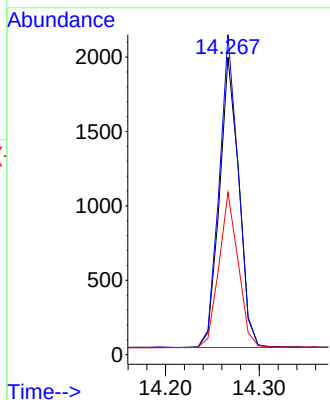
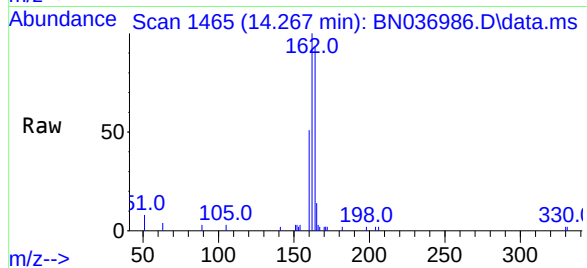




#13
Acenaphthene-d10
Concen: 0.40 ng
RT: 14.267 min Scan# 1465
Delta R.T. 0.000 min
Lab File: BN036986.D
Acq: 12 May 2025 16:07

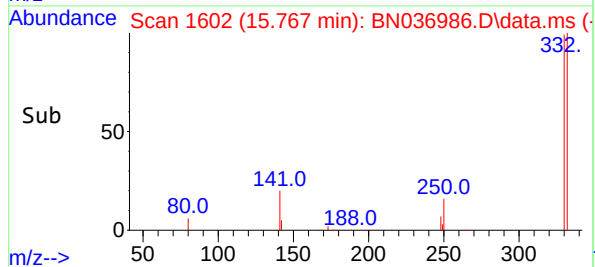
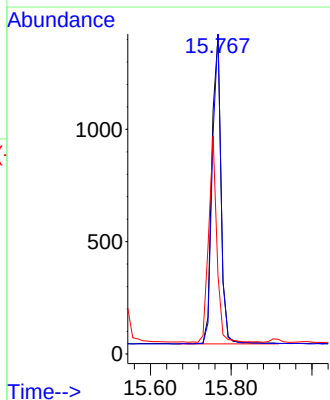
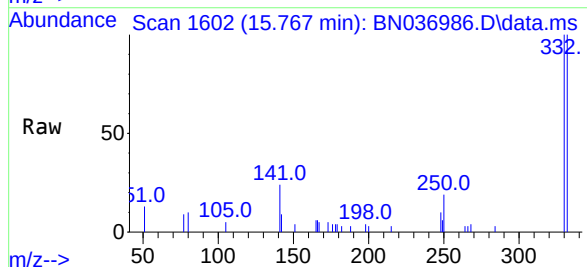
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

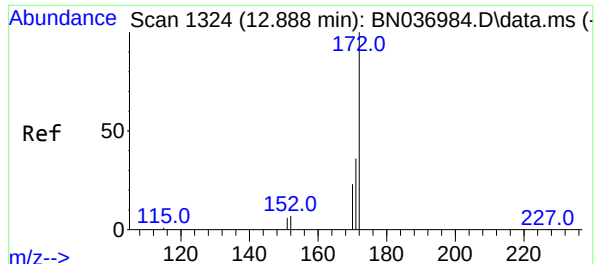
Tgt Ion:164 Resp: 2810
Ion Ratio Lower Upper
164 100
162 107.6 86.1 129.1
160 54.5 44.6 67.0



#14
2,4,6-Tribromophenol
Concen: 1.68 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN036986.D
Acq: 12 May 2025 16:07

Tgt Ion:330 Resp: 2159
Ion Ratio Lower Upper
330 100
332 95.1 75.6 113.4
141 59.7 47.4 71.2





#15

2-Fluorobiphenyl

Concen: 1.70 ng

RT: 12.888 min Scan# 1324

Delta R.T. 0.000 min

Lab File: BN036986.D

Acq: 12 May 2025 16:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

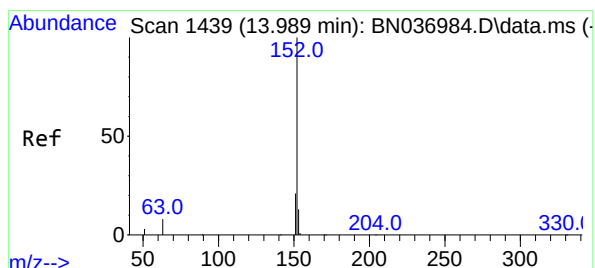
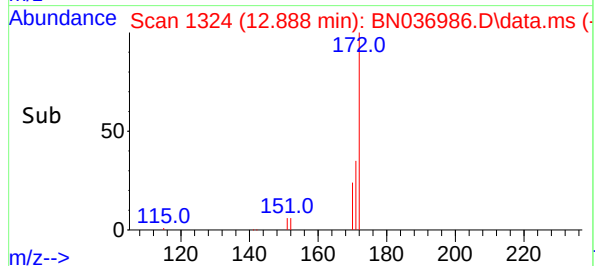
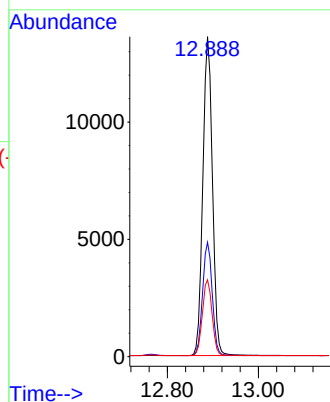
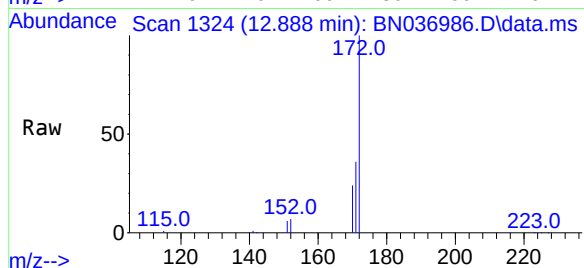
Tgt Ion:172 Resp: 22247

Ion Ratio Lower Upper

172 100

171 35.7 29.4 44.2

170 24.0 19.4 29.0



#16

Acenaphthylene

Concen: 1.69 ng

RT: 13.989 min Scan# 1439

Delta R.T. 0.000 min

Lab File: BN036986.D

Acq: 12 May 2025 16:07

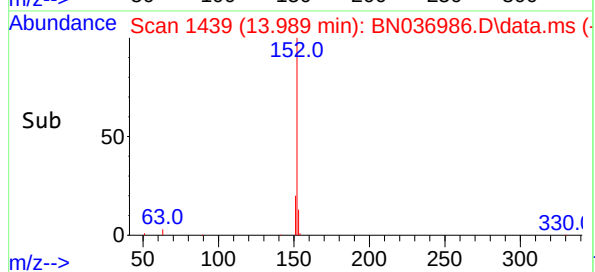
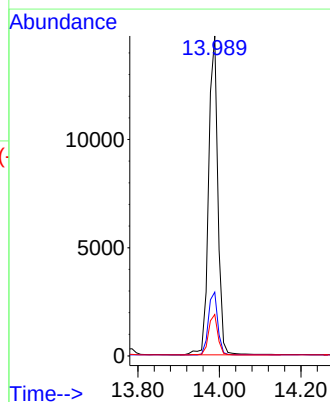
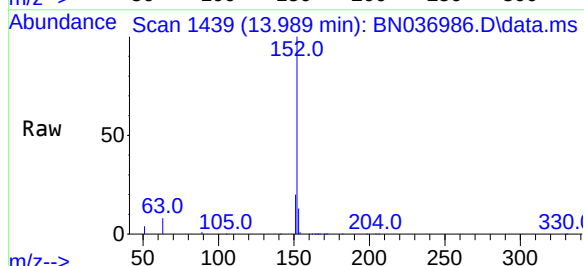
Tgt Ion:152 Resp: 23271

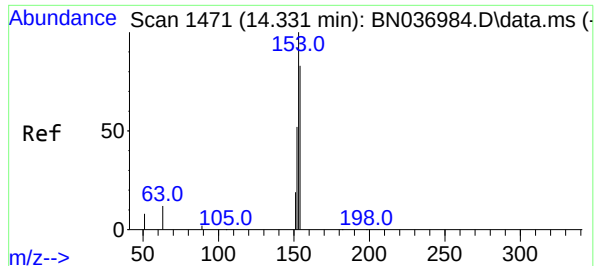
Ion Ratio Lower Upper

152 100

151 20.0 16.2 24.4

153 12.8 10.9 16.3





#17

Acenaphthene

Concen: 1.69 ng

RT: 14.331 min Scan# 1471

Delta R.T. 0.000 min

Lab File: BN036986.D

Acq: 12 May 2025 16:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

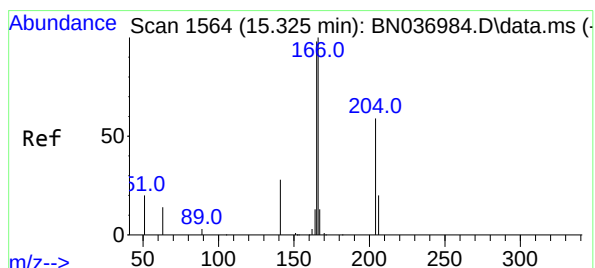
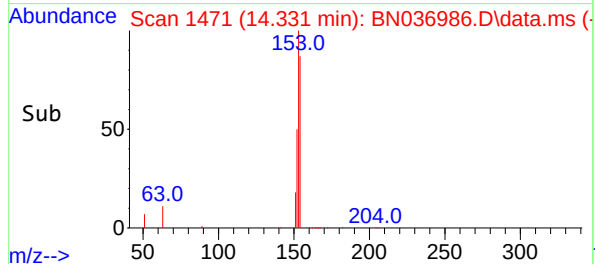
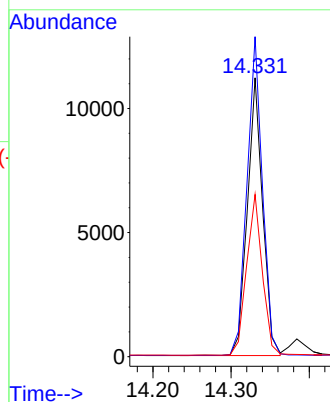
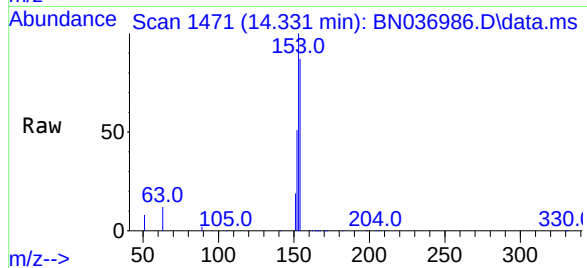
Tgt Ion:154 Resp: 15270

Ion Ratio Lower Upper

154 100

153 116.1 94.6 142.0

152 59.6 49.4 74.2



#18

Fluorene

Concen: 1.68 ng

RT: 15.325 min Scan# 1564

Delta R.T. 0.000 min

Lab File: BN036986.D

Acq: 12 May 2025 16:07

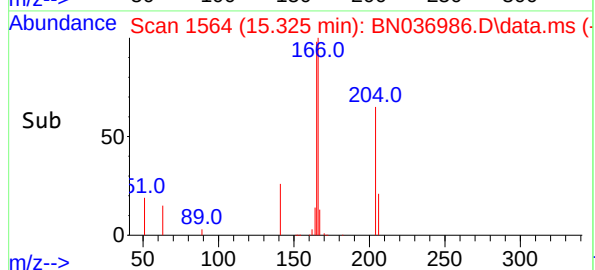
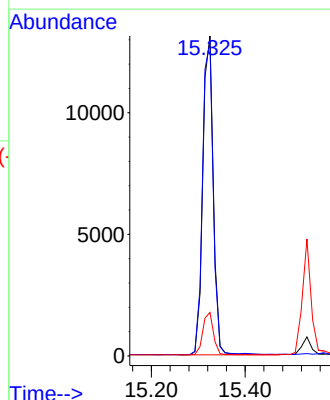
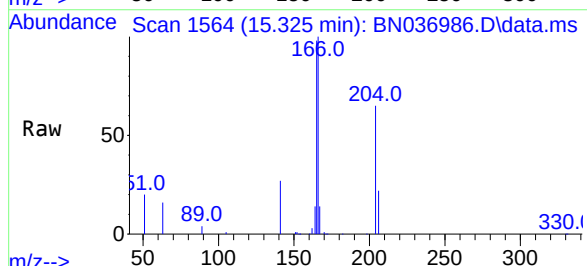
Tgt Ion:166 Resp: 20324

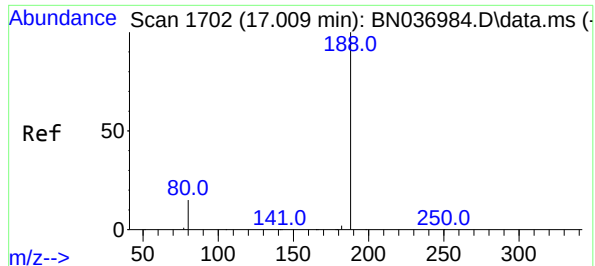
Ion Ratio Lower Upper

166 100

165 99.6 81.0 121.4

167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.40 ng

RT: 17.009 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN036986.D

Acq: 12 May 2025 16:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

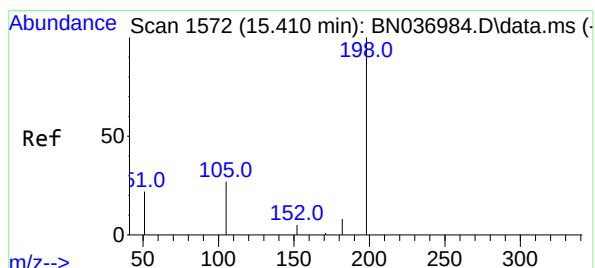
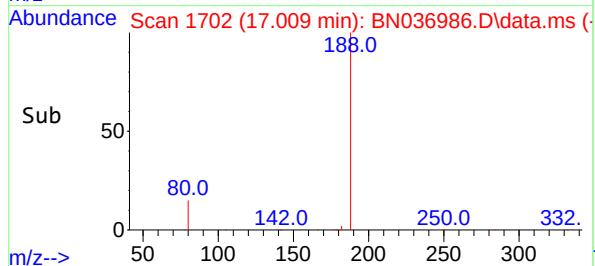
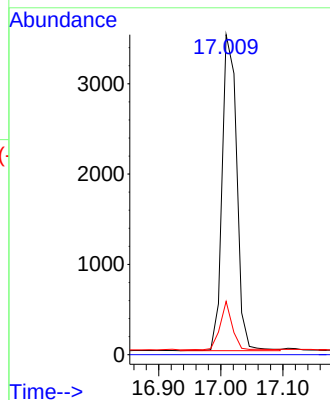
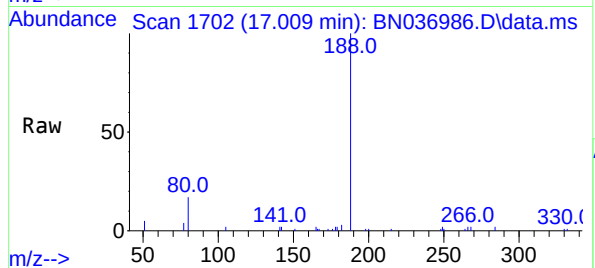
Tgt Ion:188 Resp: 5692

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.7 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 1.78 ng

RT: 15.400 min Scan# 1571

Delta R.T. -0.011 min

Lab File: BN036986.D

Acq: 12 May 2025 16:07

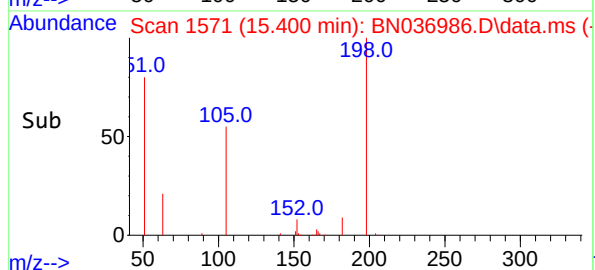
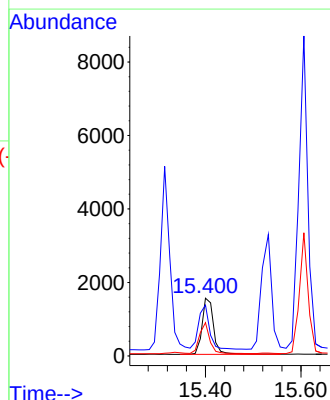
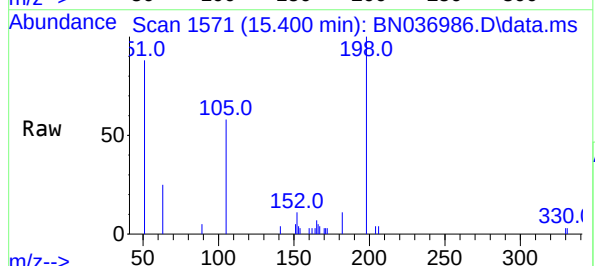
Tgt Ion:198 Resp: 2596

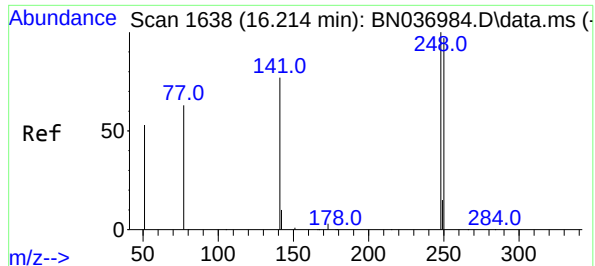
Ion Ratio Lower Upper

198 100

51 88.2 79.7 119.5

105 57.7 36.0 54.0#

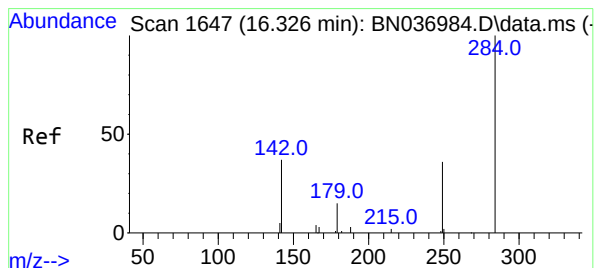
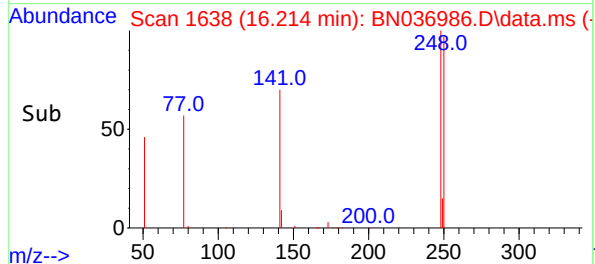
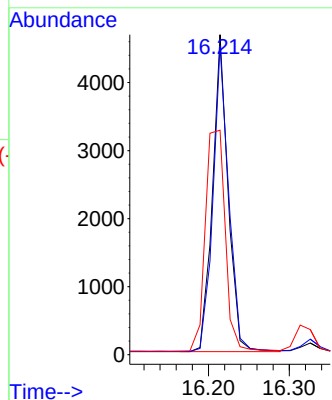
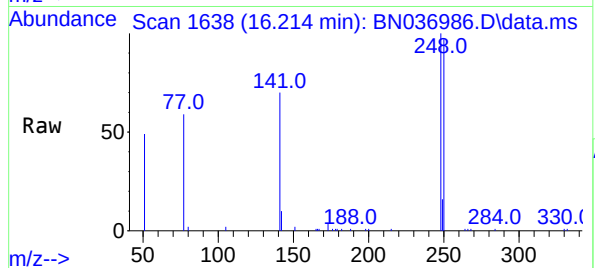




#21
4-Bromophenyl-phenylether
Concen: 1.68 ng
RT: 16.214 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN036986.D
Acq: 12 May 2025 16:07

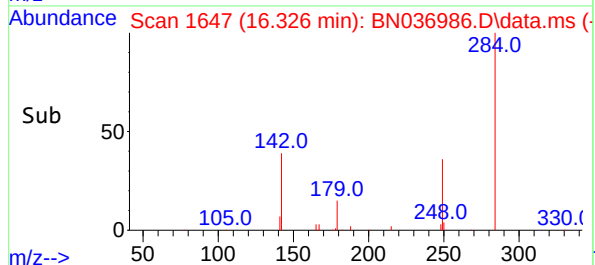
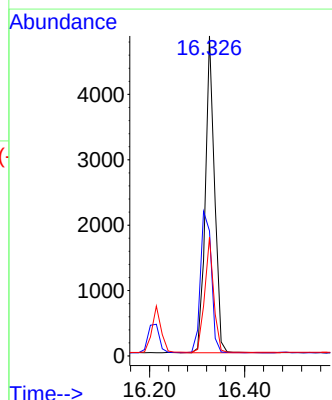
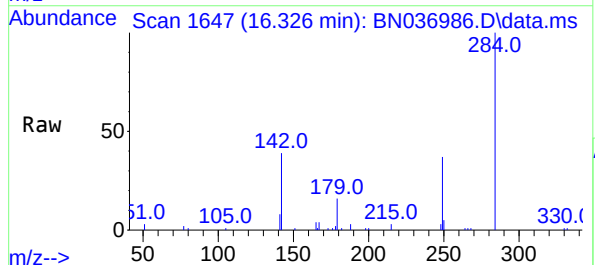
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

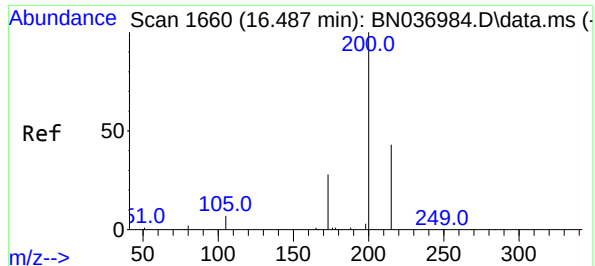
Tgt Ion:248 Resp: 6197
Ion Ratio Lower Upper
248 100
250 96.6 77.8 116.8
141 70.2 63.1 94.7



#22
Hexachlorobenzene
Concen: 1.65 ng
RT: 16.326 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN036986.D
Acq: 12 May 2025 16:07

Tgt Ion:284 Resp: 6544
Ion Ratio Lower Upper
284 100
142 52.7 41.4 62.2
249 35.9 29.1 43.7

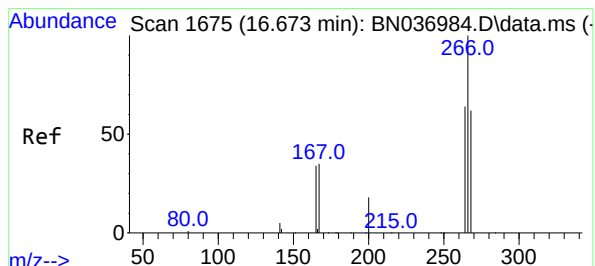
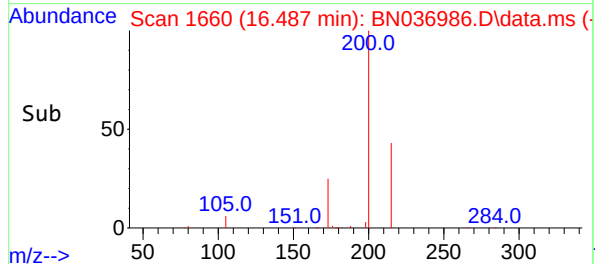
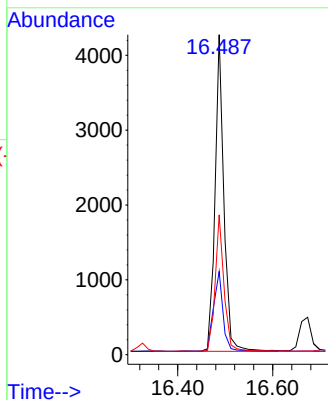
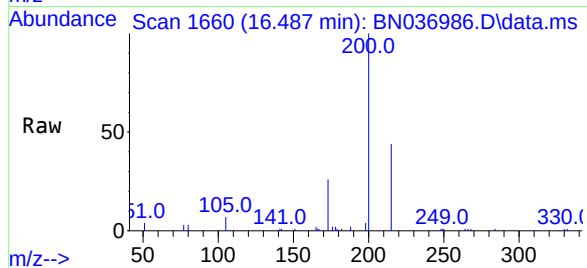




#23
Atrazine
Concen: 1.67 ng
RT: 16.487 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN036986.D
Acq: 12 May 2025 16:07

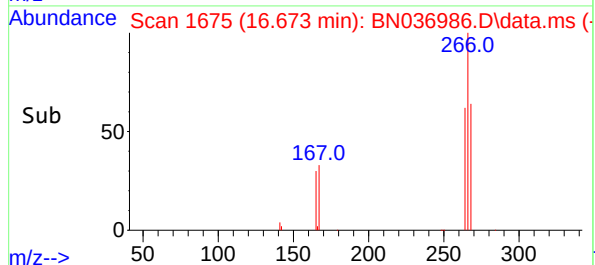
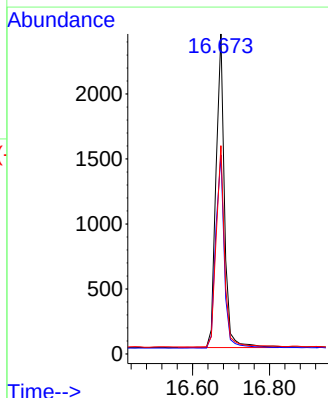
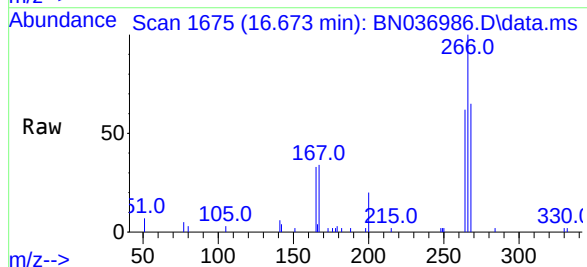
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

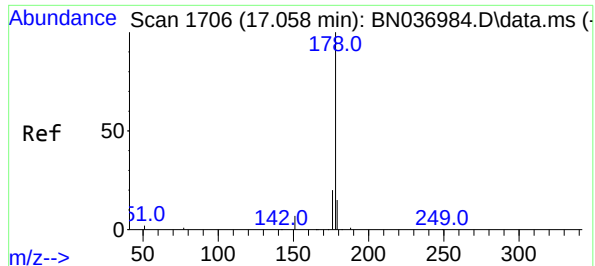
Tgt Ion	Ratio	Lower	Upper
200	100		
173	26.0	25.8	38.6
215	43.7	37.4	56.0



#24
Pentachlorophenol
Concen: 1.67 ng
RT: 16.673 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN036986.D
Acq: 12 May 2025 16:07

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.7	52.8	79.2
268	63.5	50.0	75.0

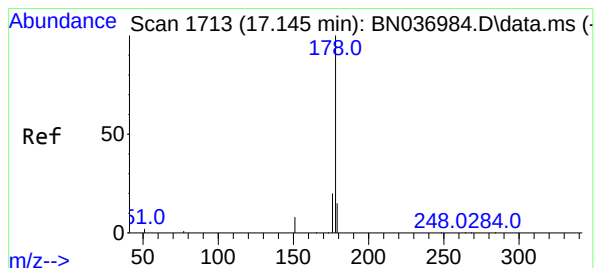
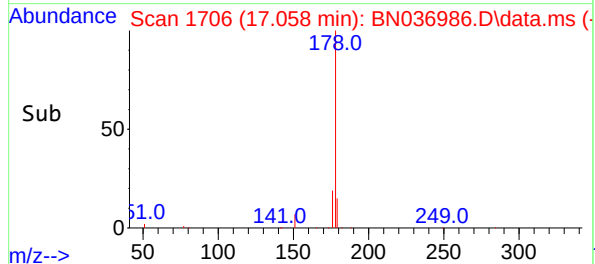
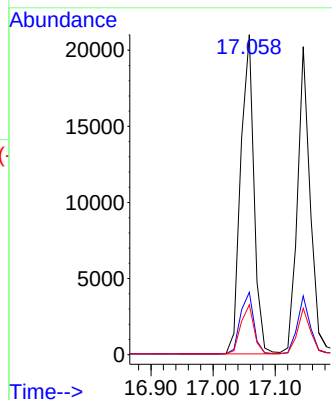
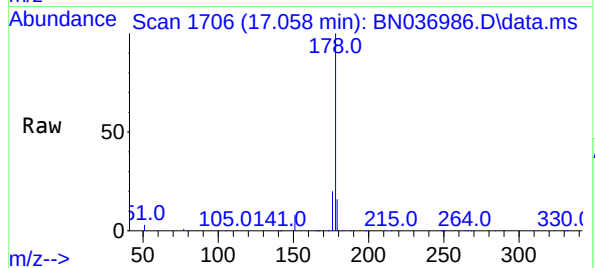




#25
Phenanthrene
Concen: 1.67 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN036986.D
Acq: 12 May 2025 16:07

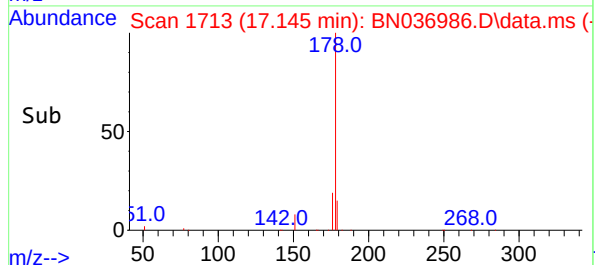
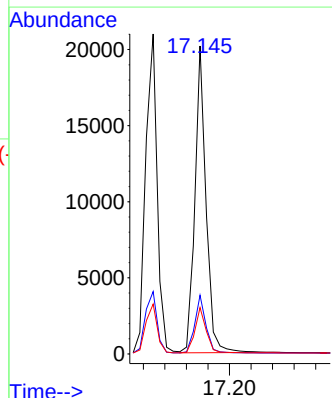
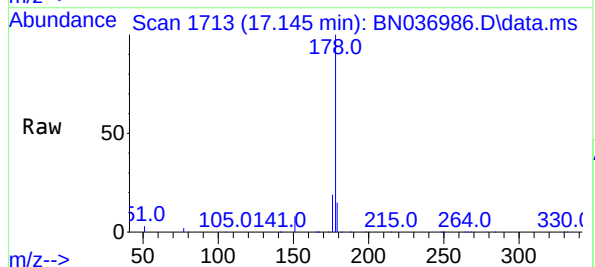
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

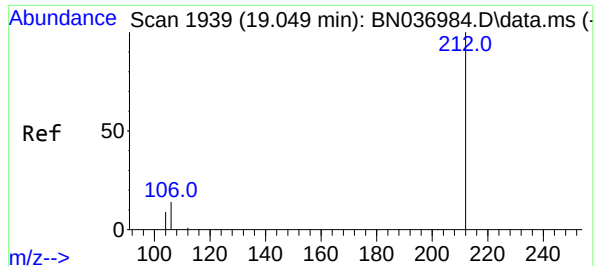
Tgt Ion:178 Resp: 31199
Ion Ratio Lower Upper
178 100
176 19.6 16.0 24.0
179 15.3 12.3 18.5



#26
Anthracene
Concen: 1.70 ng
RT: 17.145 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN036986.D
Acq: 12 May 2025 16:07

Tgt Ion:178 Resp: 28988
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 1.65 ng

RT: 19.049 min Scan# 1939

Delta R.T. 0.000 min

Lab File: BN036986.D

Acq: 12 May 2025 16:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

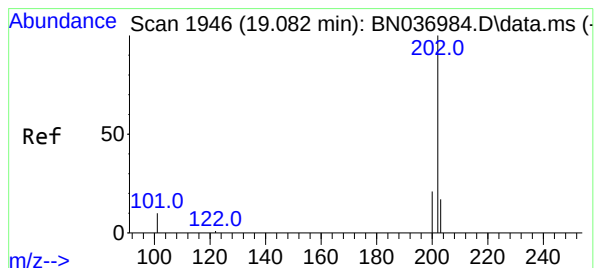
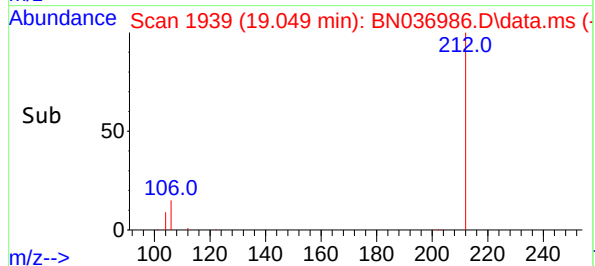
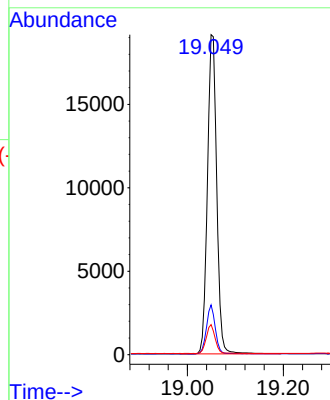
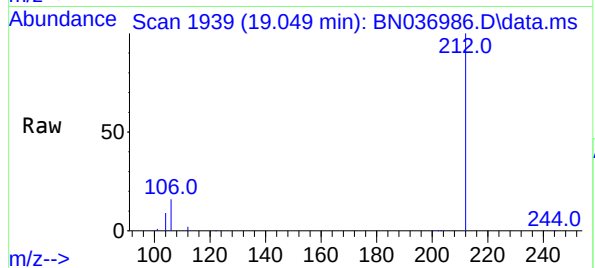
Tgt Ion:212 Resp: 25587

Ion Ratio Lower Upper

212 100

106 14.5 11.3 16.9

104 8.7 7.0 10.4



#28

Fluoranthene

Concen: 1.69 ng

RT: 19.082 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN036986.D

Acq: 12 May 2025 16:07

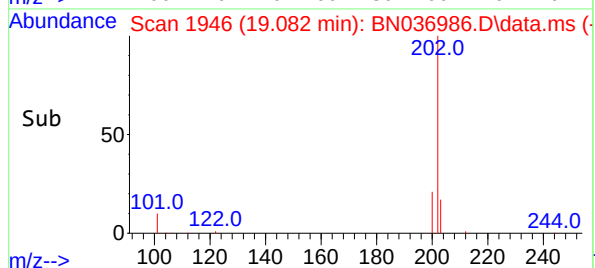
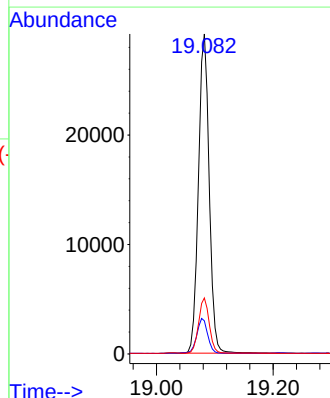
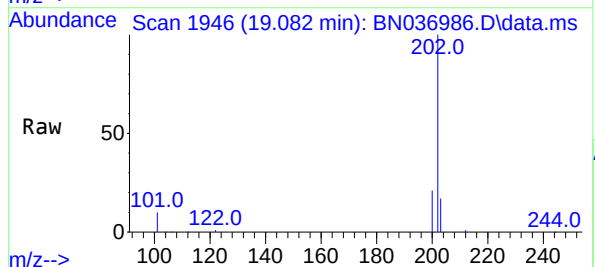
Tgt Ion:202 Resp: 37228

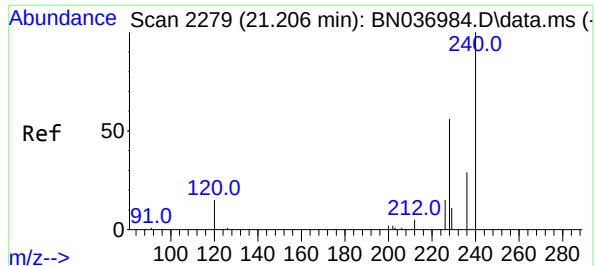
Ion Ratio Lower Upper

202 100

101 11.3 8.6 12.8

203 17.3 13.5 20.3





#29

Chrysene-d12

Concen: 0.40 ng

RT: 21.206 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036986.D

Acq: 12 May 2025 16:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

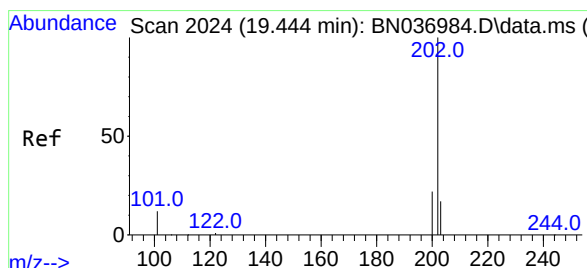
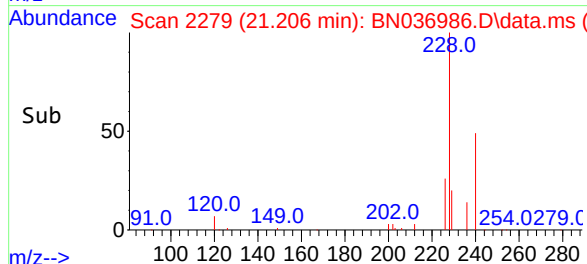
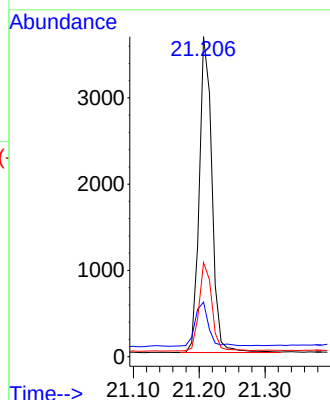
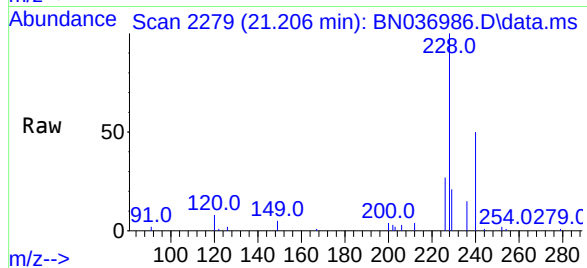
Tgt Ion:240 Resp: 4903

Ion Ratio Lower Upper

240 100

120 17.1 14.5 21.7

236 29.4 24.3 36.5



#30

Pyrene

Concen: 1.68 ng

RT: 19.444 min Scan# 2024

Delta R.T. 0.000 min

Lab File: BN036986.D

Acq: 12 May 2025 16:07

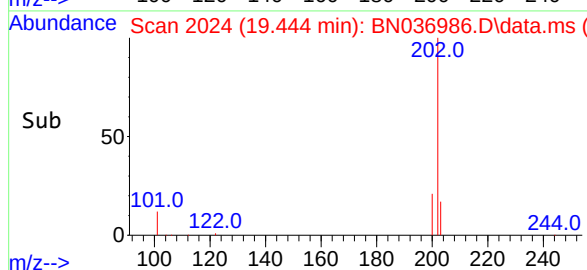
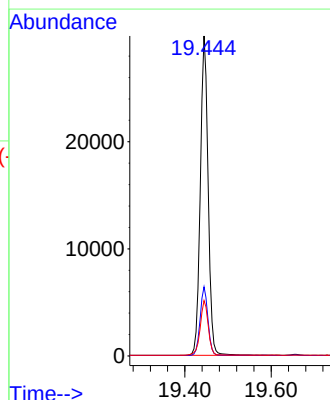
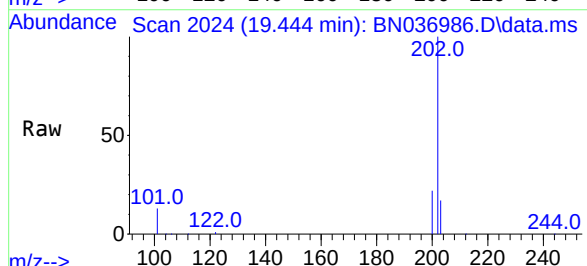
Tgt Ion:202 Resp: 37493

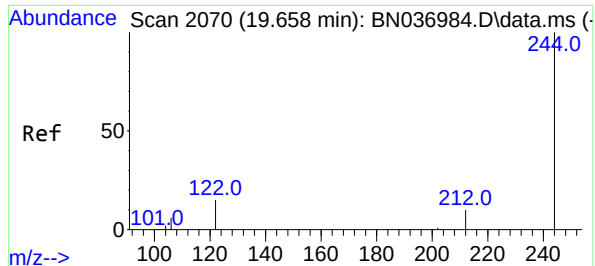
Ion Ratio Lower Upper

202 100

200 21.5 17.3 25.9

203 17.7 14.4 21.6

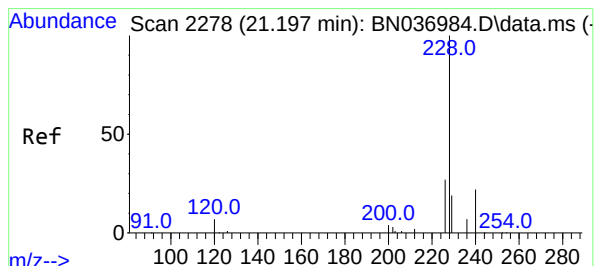
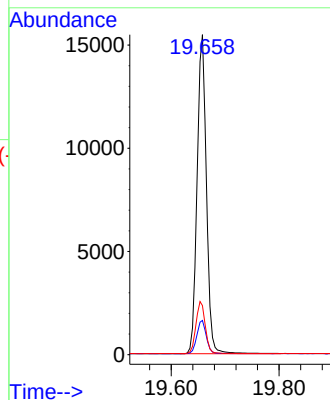
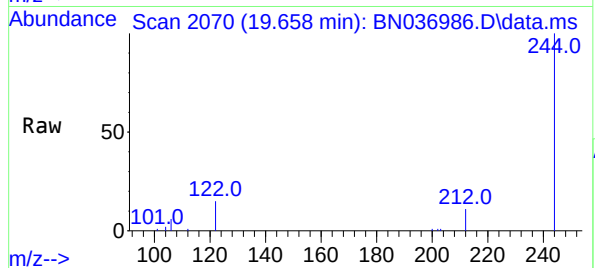




#31
Terphenyl-d14
Concen: 1.67 ng
RT: 19.658 min Scan# 2070
Delta R.T. 0.000 min
Lab File: BN036986.D
Acq: 12 May 2025 16:07

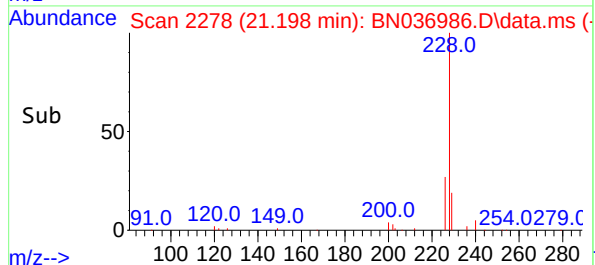
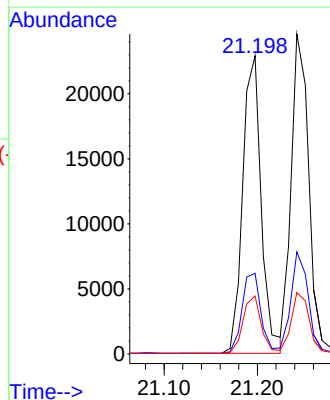
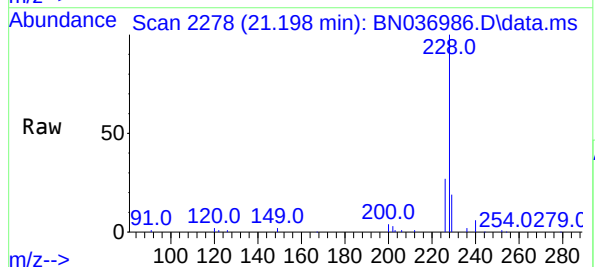
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

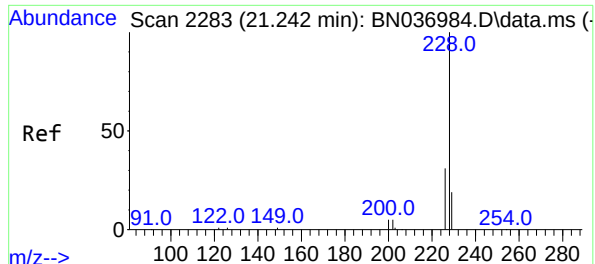
Tgt Ion:244 Resp: 18495
Ion Ratio Lower Upper
244 100
212 10.7 9.5 14.3
122 15.4 13.4 20.0



#32
Benzo(a)anthracene
Concen: 1.71 ng
RT: 21.198 min Scan# 2278
Delta R.T. 0.000 min
Lab File: BN036986.D
Acq: 12 May 2025 16:07

Tgt Ion:228 Resp: 31666
Ion Ratio Lower Upper
228 100
226 27.0 22.4 33.6
229 19.4 16.0 24.0





#33

Chrysene

Concen: 1.67 ng

RT: 21.242 min Scan# 2283

Delta R.T. 0.000 min

Lab File: BN036986.D

Acq: 12 May 2025 16:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

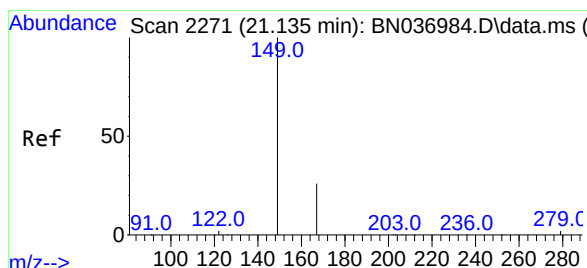
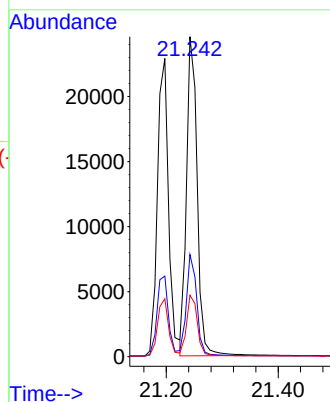
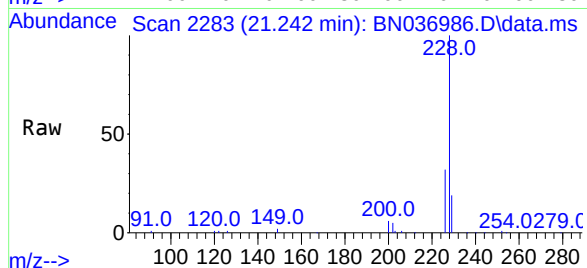
Tgt Ion:228 Resp: 32666

Ion Ratio Lower Upper

228 100

226 31.9 25.7 38.5

229 19.2 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.58 ng

RT: 21.135 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BN036986.D

Acq: 12 May 2025 16:07

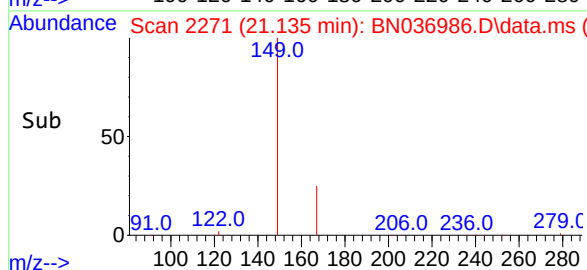
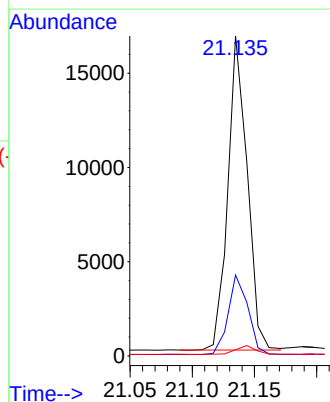
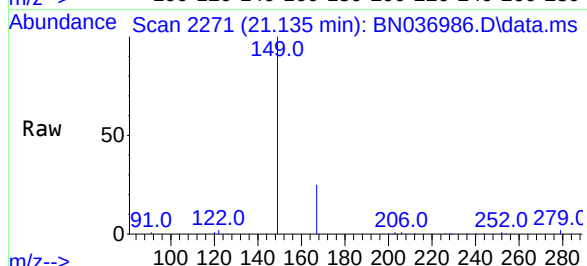
Tgt Ion:149 Resp: 18017

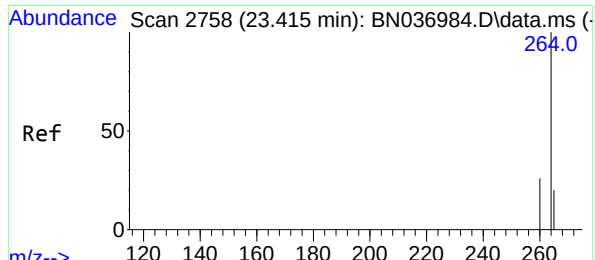
Ion Ratio Lower Upper

149 100

167 25.9 21.0 31.6

279 2.8 2.7 4.1





#35

Perylene-d12

Concen: 0.40 ng

RT: 23.415 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036986.D

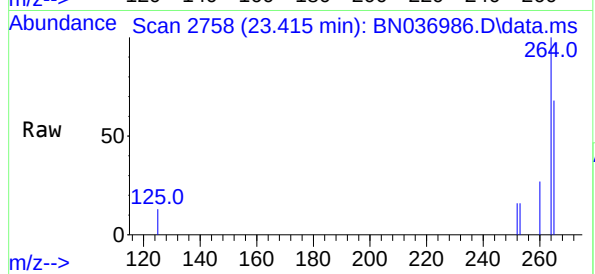
Acq: 12 May 2025 16:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



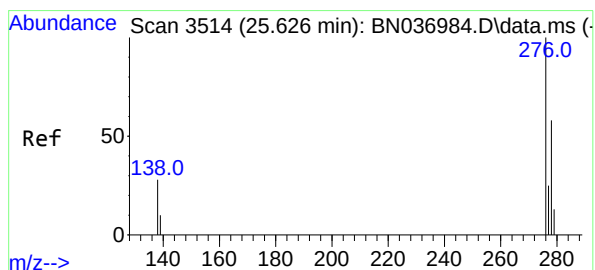
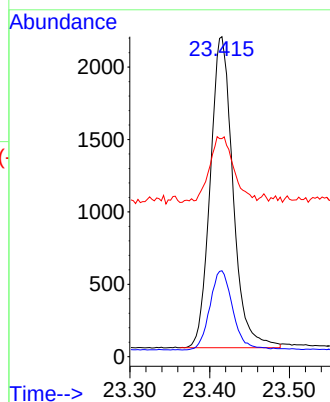
Tgt Ion:264 Resp: 4252

Ion Ratio Lower Upper

264 100

260 26.9 22.3 33.5

265 68.1 55.4 83.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.68 ng

RT: 25.626 min Scan# 3514

Delta R.T. 0.000 min

Lab File: BN036986.D

Acq: 12 May 2025 16:07

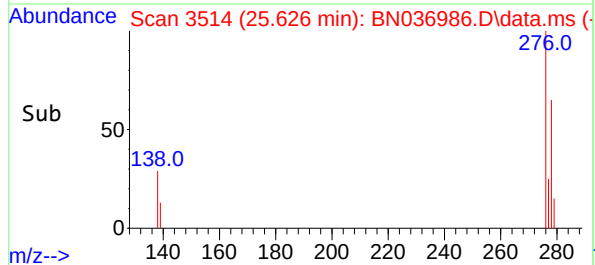
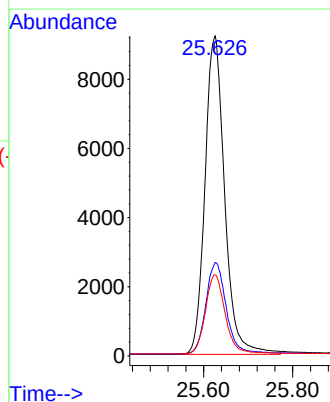
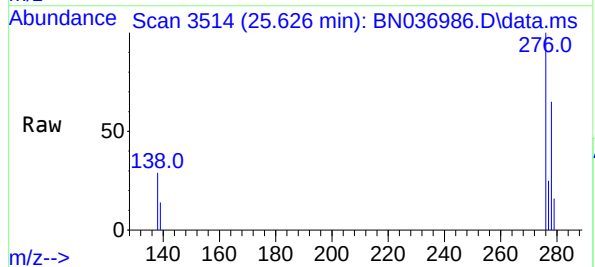
Tgt Ion:276 Resp: 28269

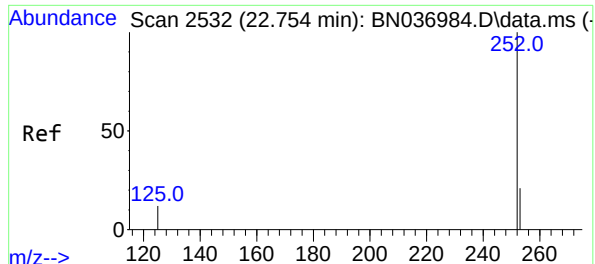
Ion Ratio Lower Upper

276 100

138 29.8 21.8 32.8

277 24.9 20.2 30.4





#37

Benzo(b)fluoranthene

Concen: 1.71 ng

RT: 22.755 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN036986.D

Acq: 12 May 2025 16:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

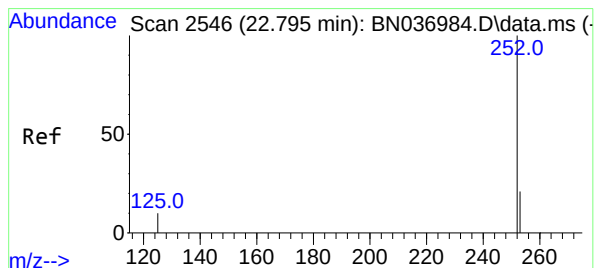
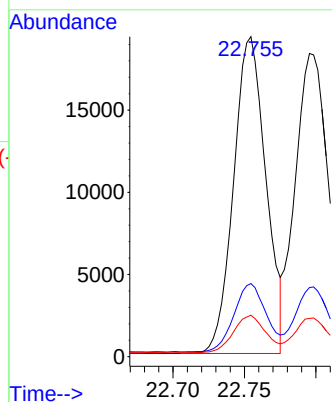
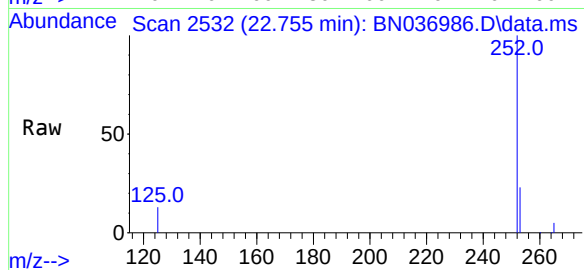
Tgt Ion:252 Resp: 30288

Ion Ratio Lower Upper

252 100

253 22.8 21.9 32.9

125 13.0 13.8 20.8#



#38

Benzo(k)fluoranthene

Concen: 1.74 ng

RT: 22.795 min Scan# 2546

Delta R.T. 0.000 min

Lab File: BN036986.D

Acq: 12 May 2025 16:07

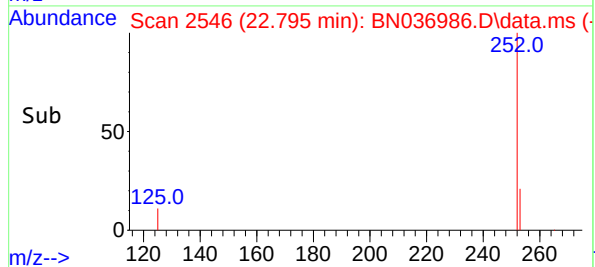
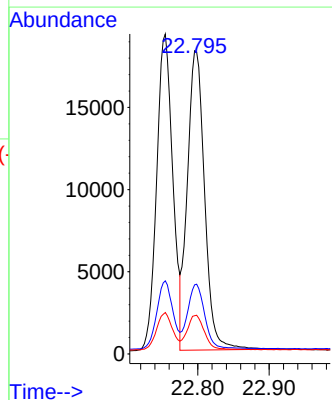
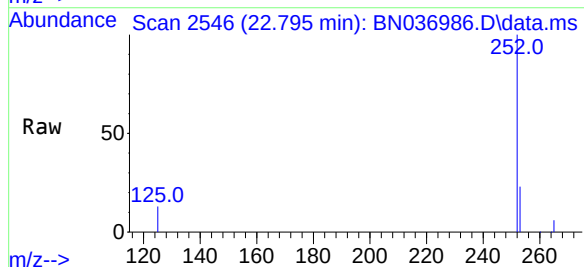
Tgt Ion:252 Resp: 30597

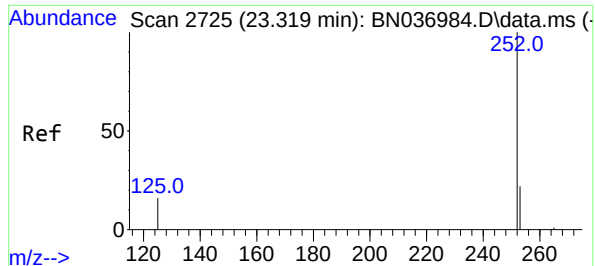
Ion Ratio Lower Upper

252 100

253 22.8 22.0 33.0

125 12.6 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 1.70 ng

RT: 23.319 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036986.D

Acq: 12 May 2025 16:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

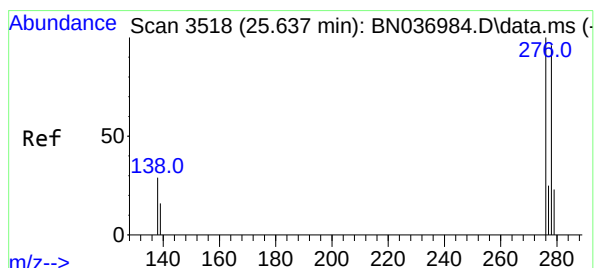
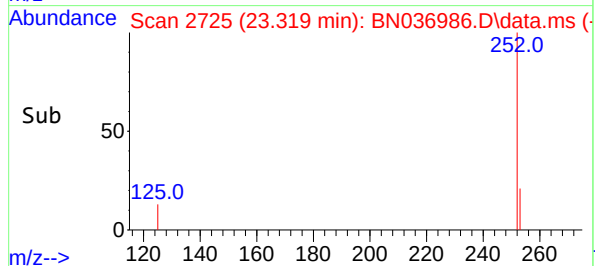
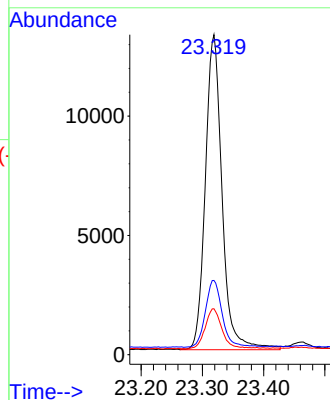
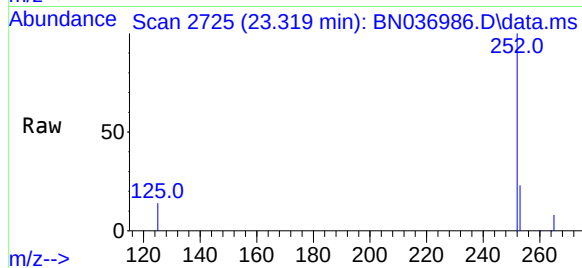
Tgt Ion:252 Resp: 25092

Ion Ratio Lower Upper

252 100

253 23.2 24.8 37.2#

125 14.3 18.6 28.0#



#40

Dibenzo(a,h)anthracene

Concen: 1.70 ng

RT: 25.637 min Scan# 3518

Delta R.T. 0.000 min

Lab File: BN036986.D

Acq: 12 May 2025 16:07

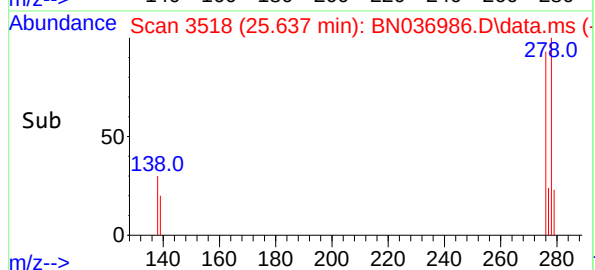
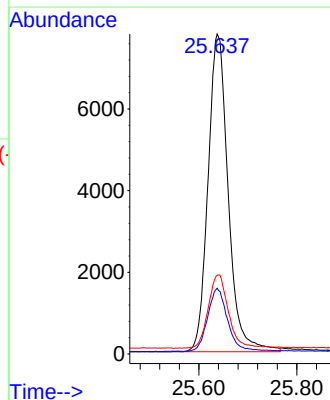
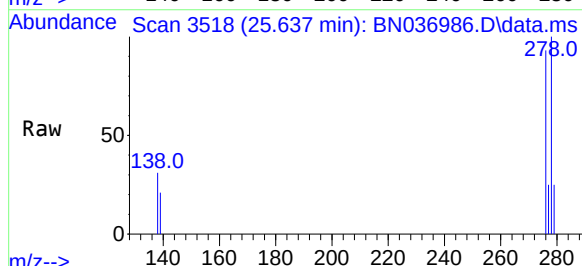
Tgt Ion:278 Resp: 22229

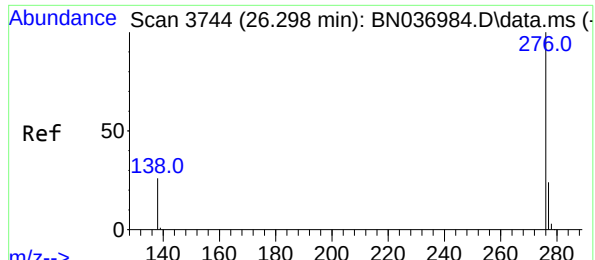
Ion Ratio Lower Upper

278 100

139 20.6 18.1 27.1

279 24.6 25.3 37.9#





#41

Benzo(g,h,i)perylene

Concen: 1.66 ng

RT: 26.298 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN036986.D

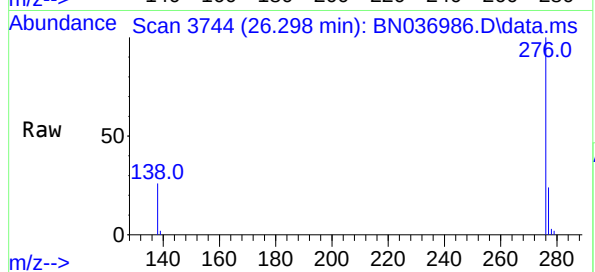
Acq: 12 May 2025 16:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



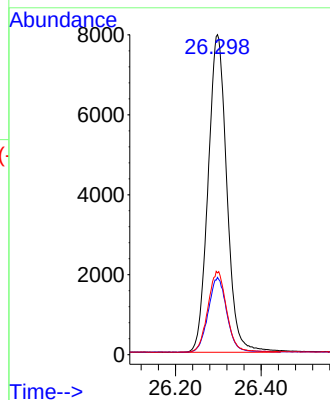
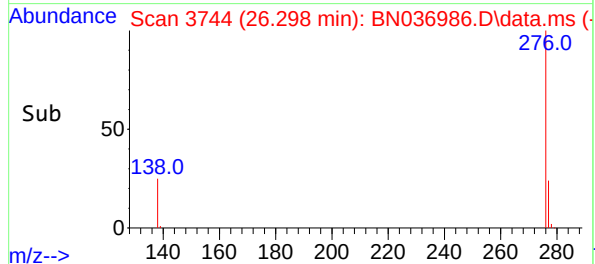
Tgt Ion:276 Resp: 24121

Ion Ratio Lower Upper

276 100

277 24.2 21.2 31.8

138 25.6 22.6 33.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051225\
 Data File : BN036987.D
 Acq On : 12 May 2025 16:43
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: May 12 17:53:57 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 12 17:44:09 2025
 Response via : Initial Calibration

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

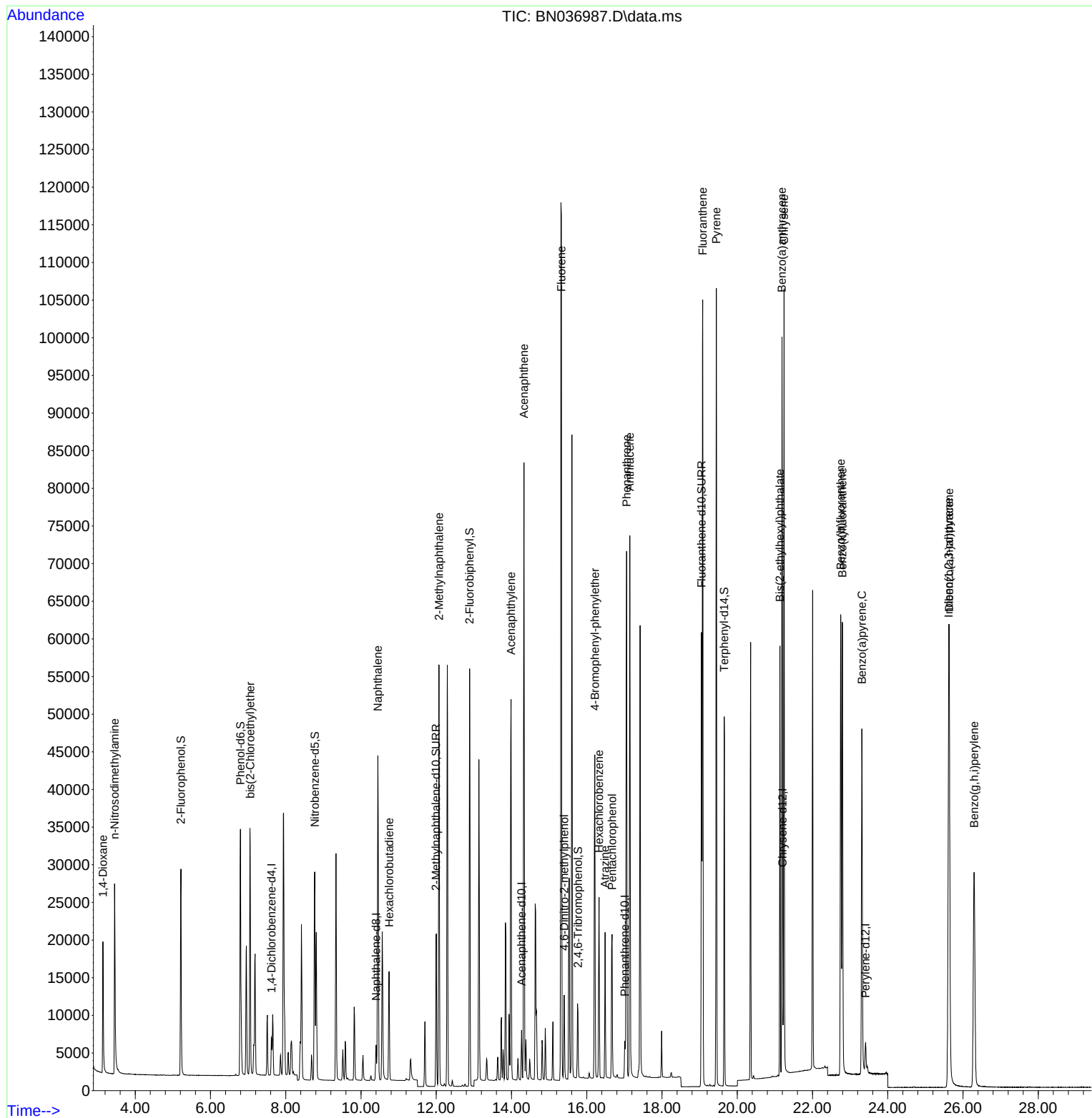
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.618	152	2281	0.40	ng	0.00
7) Naphthalene-d8	10.404	136	5775	0.40	ng	0.00
13) Acenaphthene-d10	14.267	164	3402	0.40	ng	0.00
19) Phenanthrene-d10	17.009	188	6663	0.40	ng	0.00
29) Chrysene-d12	21.207	240	6130	0.40	ng	# 0.00
35) Perylene-d12	23.412	264	5208	0.40	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	18486	3.14	ng	0.00
5) Phenol-d6	6.795	99	23568	3.31	ng	0.00
8) Nitrobenzene-d5	8.771	82	20517	3.37	ng	0.00
11) 2-Methylnaphthalene-d10	11.996	152	26844	3.31	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	5077	3.25	ng	0.00
15) 2-Fluorobiphenyl	12.889	172	49662	3.13	ng	0.00
27) Fluoranthene-d10	19.049	212	60220	3.33	ng	0.00
31) Terphenyl-d14	19.653	244	43834	3.16	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.141	88	8945	3.03	ng	98
3) n-Nitrosodimethylamine	3.451	42	18708	3.10	ng	98
6) bis(2-Chloroethyl)ether	7.055	93	21497	3.25	ng	99
9) Naphthalene	10.447	128	54123	3.23	ng	96
10) Hexachlorobutadiene	10.746	225	11147	3.10	ng	# 99
12) 2-Methylnaphthalene	12.072	142	36295	3.33	ng	98
16) Acenaphthylene	13.989	152	55484	3.34	ng	99
17) Acenaphthene	14.331	154	35245	3.23	ng	98
18) Fluorene	15.325	166	47676	3.26	ng	98
20) 4,6-Dinitro-2-methylph...	15.400	198	6294	3.69	ng	# 81
21) 4-Bromophenyl-phenylether	16.214	248	14539	3.36	ng	93
22) Hexachlorobenzene	16.326	284	14885	3.21	ng	99
23) Atrazine	16.487	200	13094	3.43	ng	92
24) Pentachlorophenol	16.674	266	9205	3.59	ng	97
25) Phenanthrene	17.058	178	72199	3.30	ng	99
26) Anthracene	17.145	178	68913	3.44	ng	100
28) Fluoranthene	19.082	202	87653	3.40	ng	99
30) Pyrene	19.444	202	88157	3.17	ng	100
32) Benzo(a)anthracene	21.189	228	75491	3.26	ng	99
33) Chrysene	21.242	228	78444	3.20	ng	98
34) Bis(2-ethylhexyl)phtha...	21.135	149	44488	3.12	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.620	276	68130	3.31	ng	96
37) Benzo(b)fluoranthene	22.749	252	72933	3.36	ng	# 89
38) Benzo(k)fluoranthene	22.793	252	72470	3.36	ng	# 90
39) Benzo(a)pyrene	23.313	252	60775	3.37	ng	# 83
40) Dibenzo(a,h)anthracene	25.634	278	54106	3.37	ng	# 90
41) Benzo(g,h,i)perylene	26.295	276	57030	3.21	ng	96

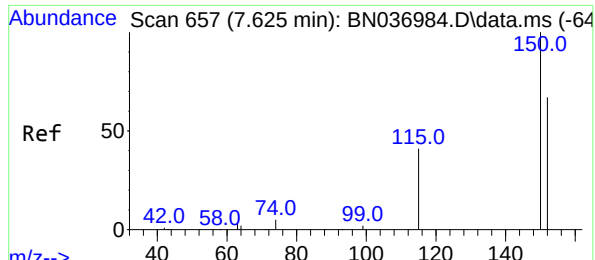
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051225\
Data File : BN036987.D
Acq On : 12 May 2025 16:43
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: May 12 17:53:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 12 17:44:09 2025
Response via : Initial Calibration

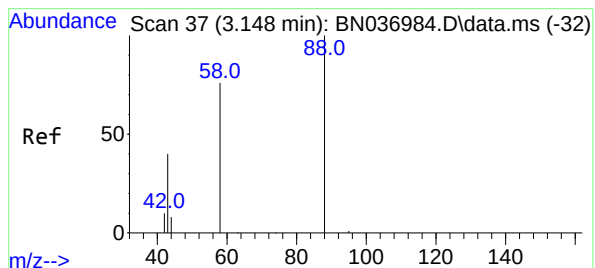
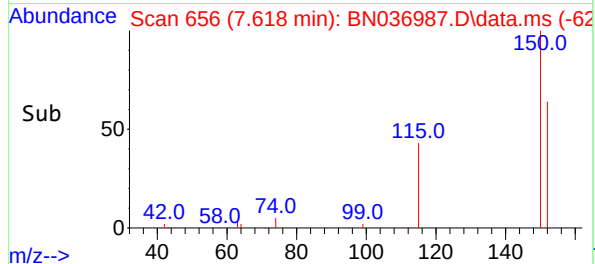
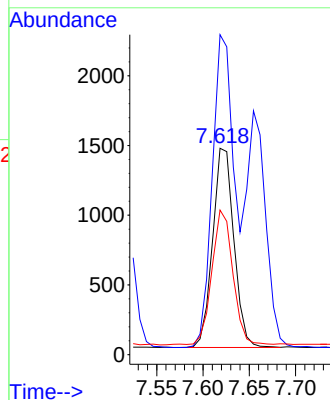
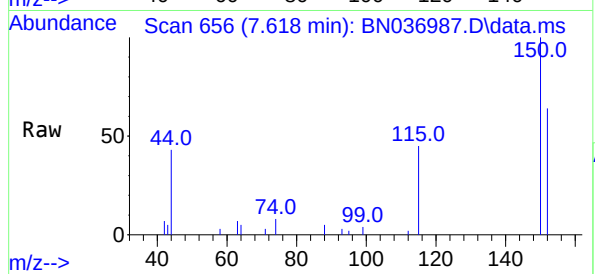




#1
1,4-Dichlorobenzene-d4
Concen: 0.40 ng
RT: 7.618 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN036987.D
Acq: 12 May 2025 16:43

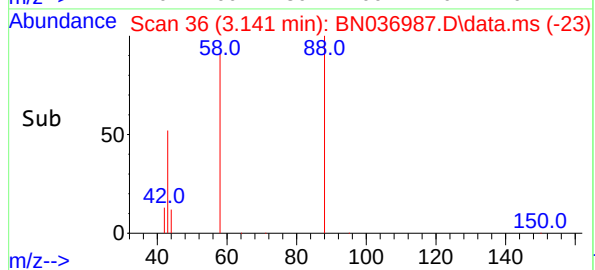
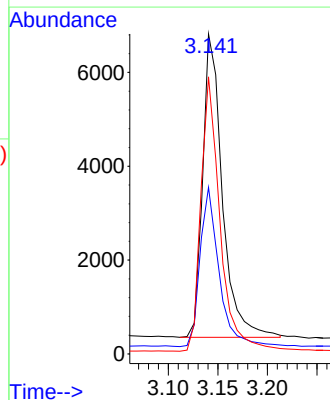
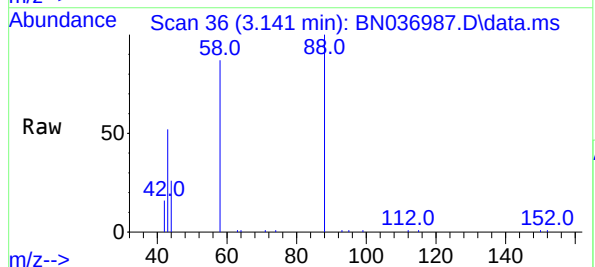
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 2281
Ion Ratio Lower Upper
152 100
150 155.1 118.2 177.4
115 70.1 52.5 78.7

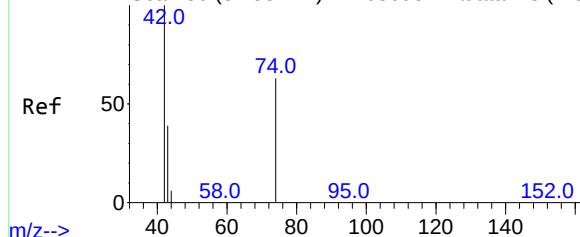


#2
1,4-Dioxane
Concen: 3.03 ng
RT: 3.141 min Scan# 36
Delta R.T. -0.007 min
Lab File: BN036987.D
Acq: 12 May 2025 16:43

Tgt Ion: 88 Resp: 8945
Ion Ratio Lower Upper
88 100
43 51.0 43.3 64.9
58 87.8 70.7 106.1

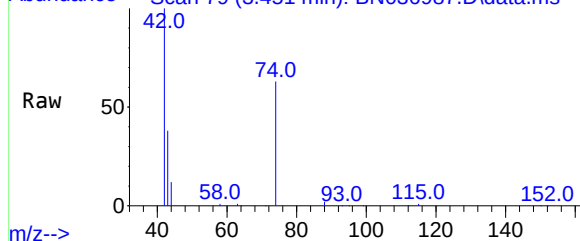


Abundance Scan 80 (3.458 min): BN036984.D\data.ms (-76)



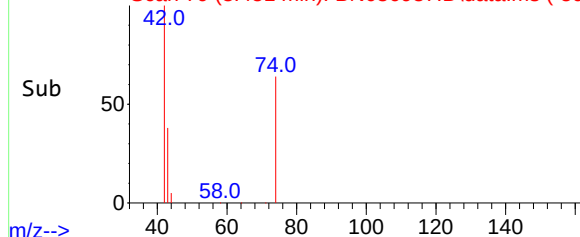
m/z-->

Abundance Scan 79 (3.451 min): BN036987.D\data.ms



m/z-->

Abundance Scan 79 (3.451 min): BN036987.D\data.ms (-59)



m/z-->

#3

n-Nitrosodimethylamine

Concen: 3.10 ng

RT: 3.451 min Scan# 79

Delta R.T. -0.007 min

Lab File: BN036987.D

Acq: 12 May 2025 16:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion: 42 Resp: 18708

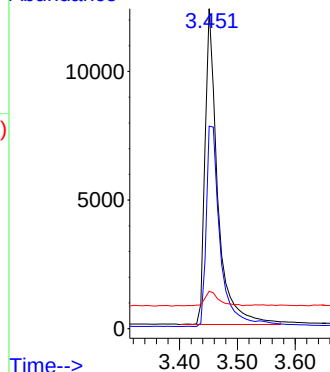
Ion Ratio Lower Upper

42 100

74 70.7 55.2 82.8

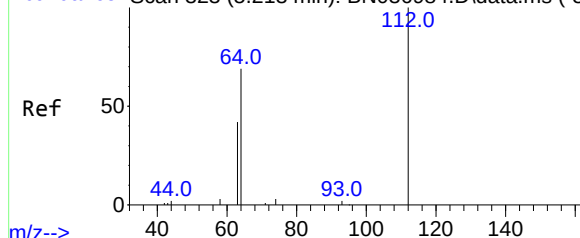
44 5.6 4.7 7.1

Abundance



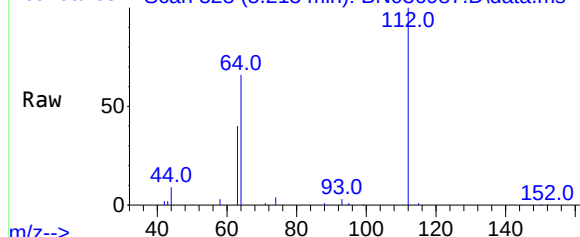
Time-->

Abundance Scan 323 (5.213 min): BN036984.D\data.ms (-31)



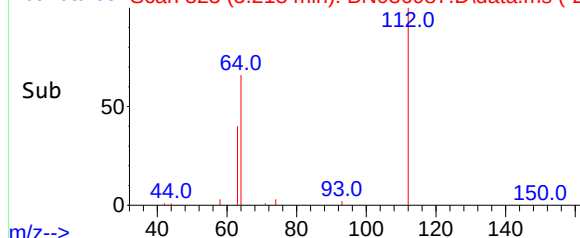
m/z-->

Abundance Scan 323 (5.213 min): BN036987.D\data.ms



m/z-->

Abundance Scan 323 (5.213 min): BN036987.D\data.ms (-29)



m/z-->

#4

2-Fluorophenol

Concen: 3.14 ng

RT: 5.213 min Scan# 323

Delta R.T. 0.000 min

Lab File: BN036987.D

Acq: 12 May 2025 16:43

Tgt Ion: 112 Resp: 18486

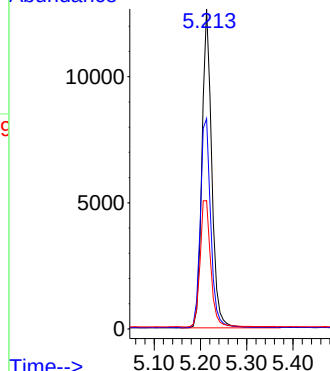
Ion Ratio Lower Upper

112 100

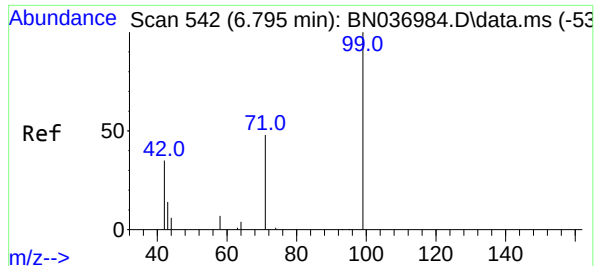
64 70.0 56.2 84.2

63 43.2 34.3 51.5

Abundance



Time-->



#5

Phenol-d6

Concen: 3.31 ng

RT: 6.795 min Scan# 54

Delta R.T. 0.000 min

Lab File: BN036987.D

Acq: 12 May 2025 16:43

Instrument :

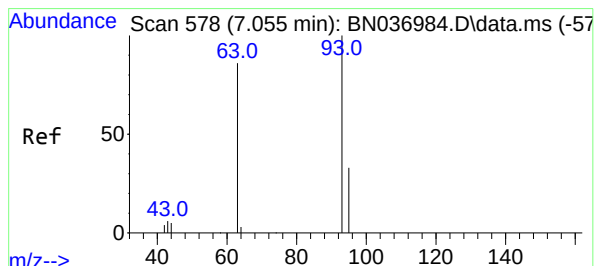
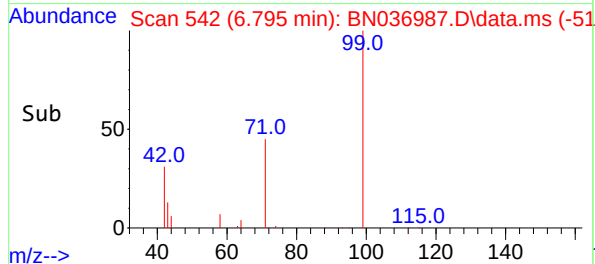
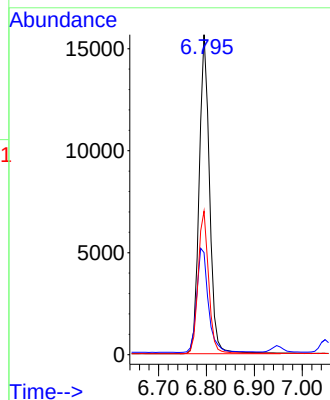
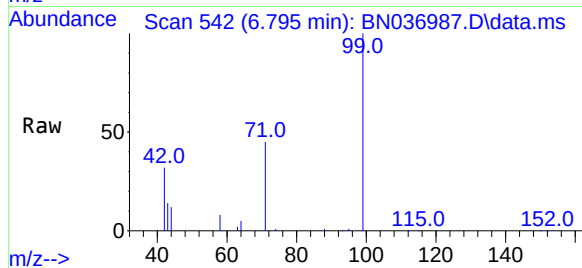
BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion: 99 Resp: 23568

Ion	Ratio	Lower	Upper
99	100		
42	36.8	29.0	43.6
71	45.7	36.2	54.2



#6

bis(2-Chloroethyl)ether

Concen: 3.25 ng

RT: 7.055 min Scan# 578

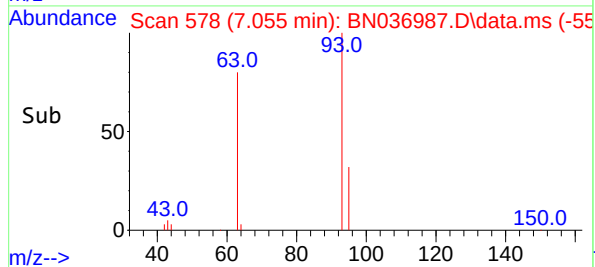
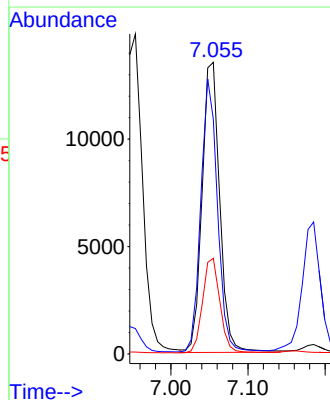
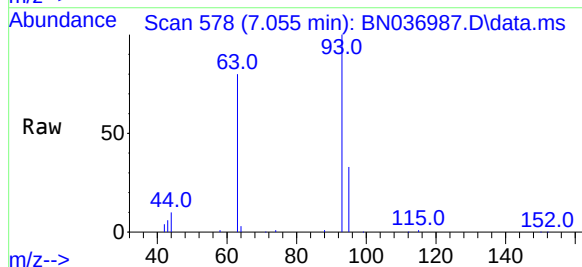
Delta R.T. 0.000 min

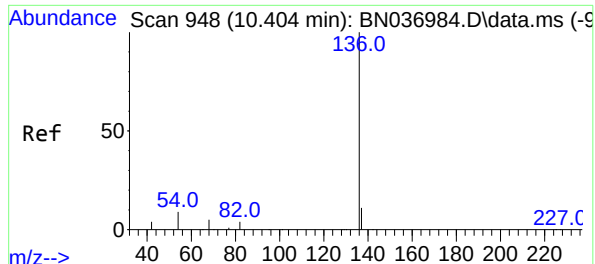
Lab File: BN036987.D

Acq: 12 May 2025 16:43

Tgt Ion: 93 Resp: 21497

Ion	Ratio	Lower	Upper
93	100		
63	88.3	69.6	104.4
95	31.9	25.1	37.7

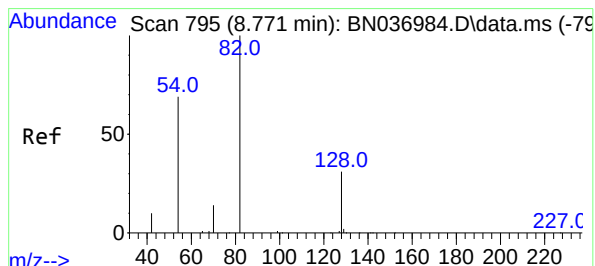
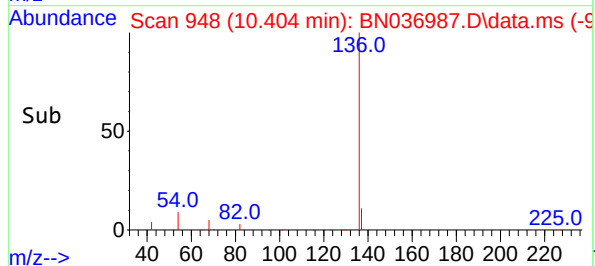
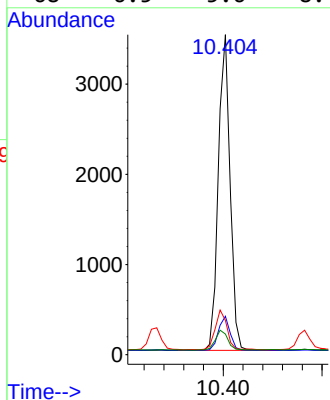
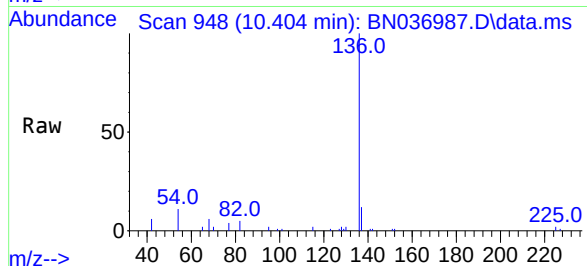




#7
Naphthalene-d8
Concen: 0.40 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN036987.D
Acq: 12 May 2025 16:43

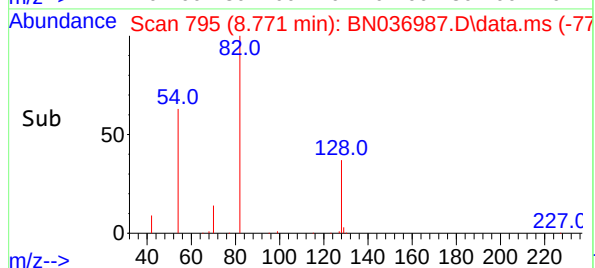
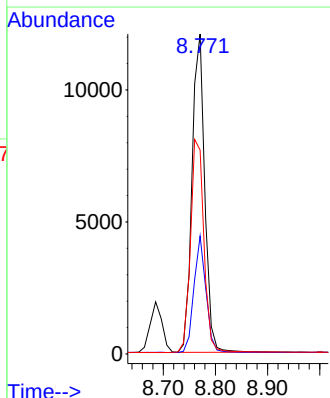
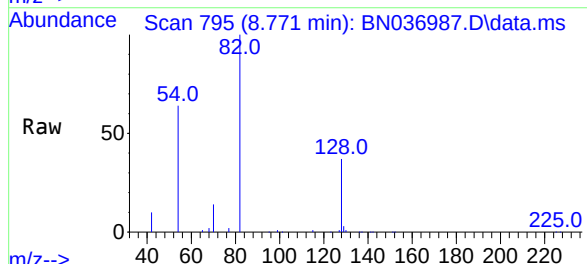
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

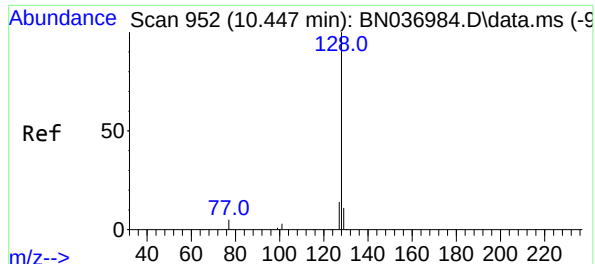
Tgt Ion:	136	Resp:	5775
Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.3	15.5
54	10.7	9.2	13.8
68	6.5	5.6	8.4



#8
Nitrobenzene-d5
Concen: 3.37 ng
RT: 8.771 min Scan# 795
Delta R.T. 0.000 min
Lab File: BN036987.D
Acq: 12 May 2025 16:43

Tgt Ion:	82	Resp:	20517
Ion	Ratio	Lower	Upper
82	100		
128	36.8	28.1	42.1
54	63.7	56.4	84.6

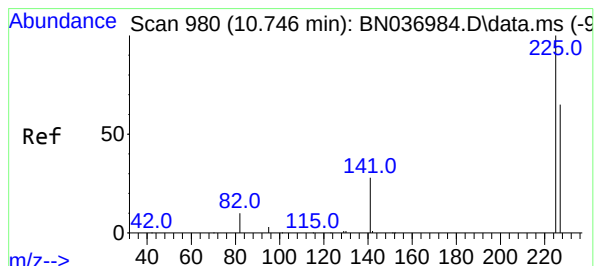
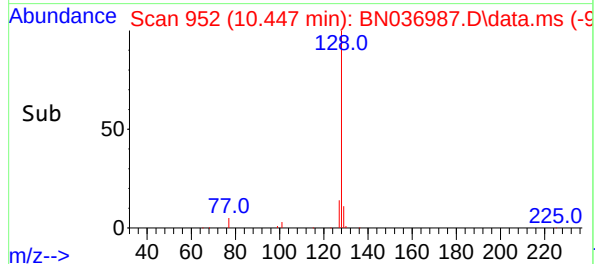
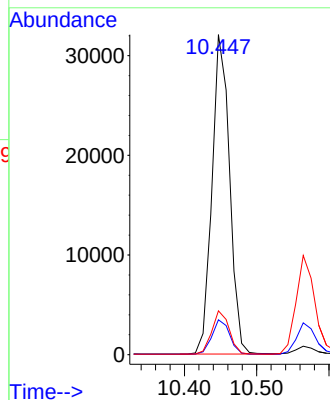
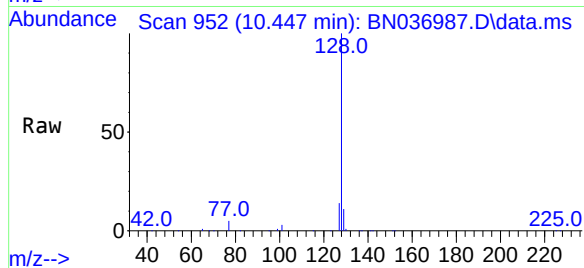




#9
Naphthalene
Concen: 3.23 ng
RT: 10.447 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036987.D
Acq: 12 May 2025 16:43

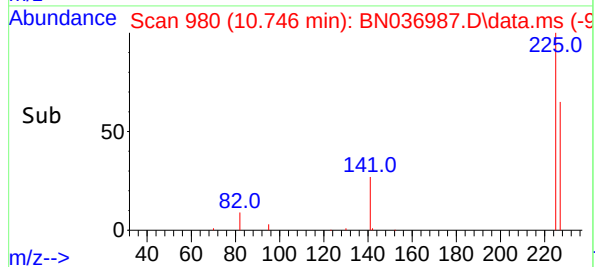
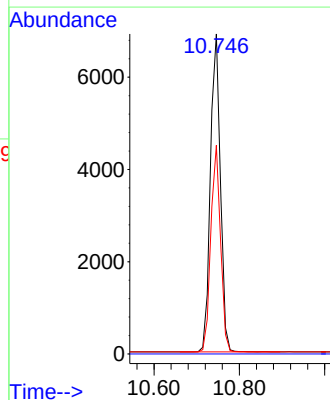
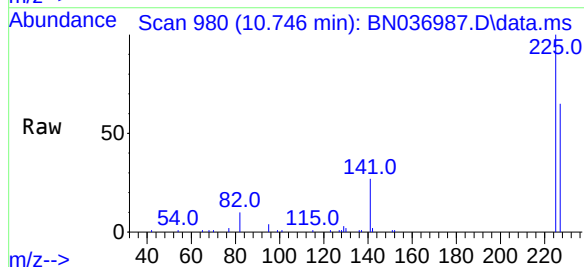
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

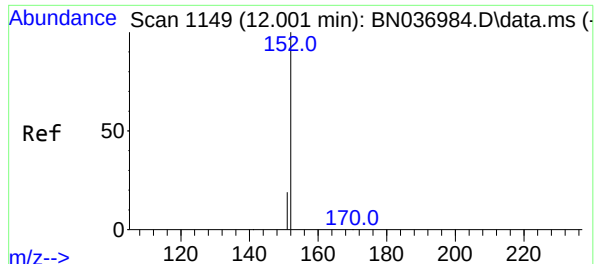
Tgt Ion:128 Resp: 54123
Ion Ratio Lower Upper
128 100
129 10.9 10.0 15.0
127 13.7 12.1 18.1



#10
Hexachlorobutadiene
Concen: 3.10 ng
RT: 10.746 min Scan# 980
Delta R.T. 0.000 min
Lab File: BN036987.D
Acq: 12 May 2025 16:43

Tgt Ion:225 Resp: 11147
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 51.2 76.8

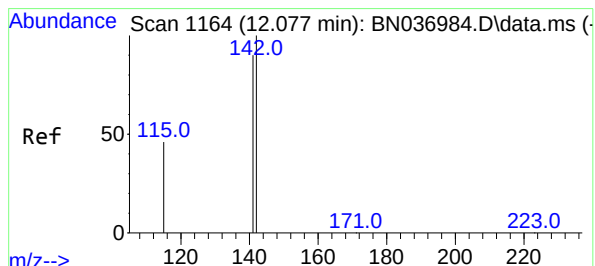
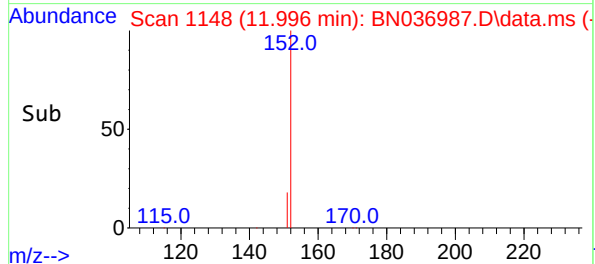
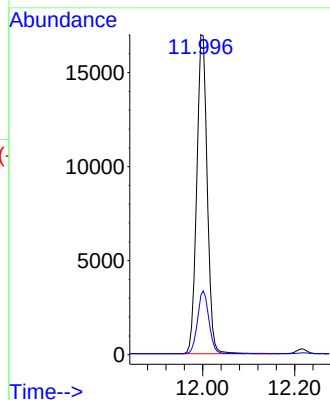
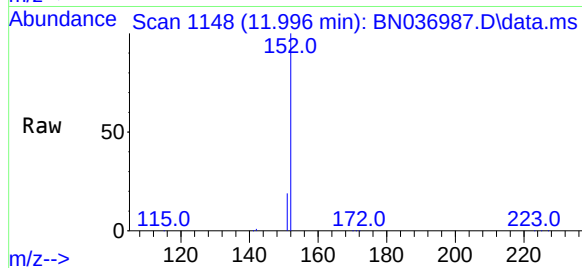




#11
2-Methylnaphthalene-d10
Concen: 3.31 ng
RT: 11.996 min Scan# 1148
Delta R.T. -0.005 min
Lab File: BN036987.D
Acq: 12 May 2025 16:43

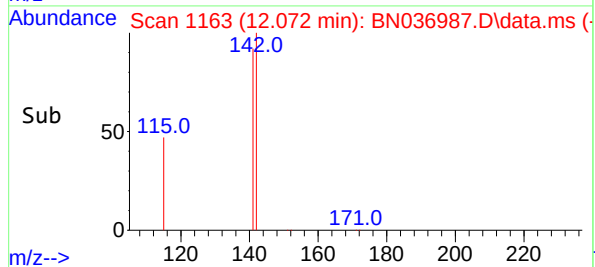
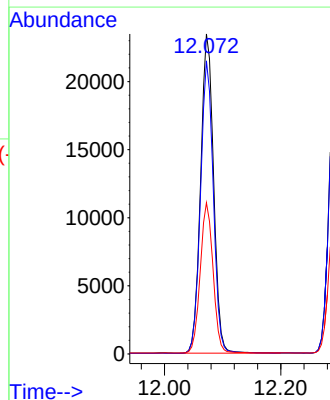
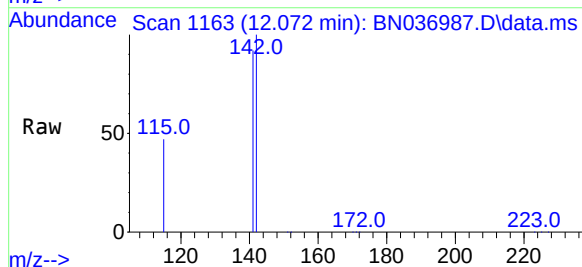
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

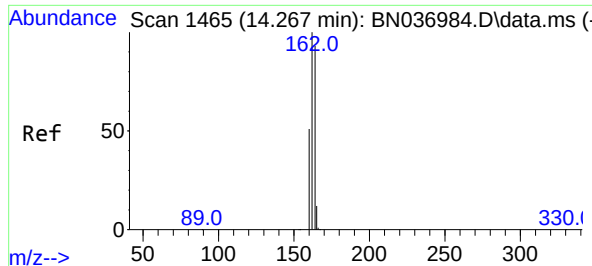
Tgt Ion:152 Resp: 26844
Ion Ratio Lower Upper
152 100
151 21.4 17.4 26.2



#12
2-Methylnaphthalene
Concen: 3.33 ng
RT: 12.072 min Scan# 1163
Delta R.T. -0.005 min
Lab File: BN036987.D
Acq: 12 May 2025 16:43

Tgt Ion:142 Resp: 36295
Ion Ratio Lower Upper
142 100
141 91.6 71.8 107.8
115 47.3 38.6 58.0

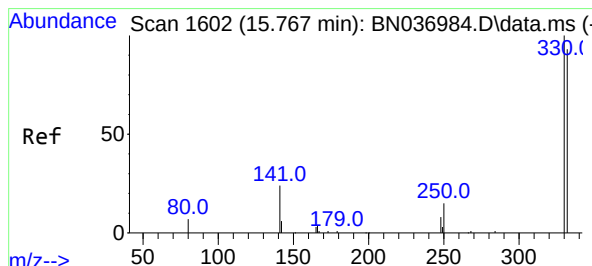
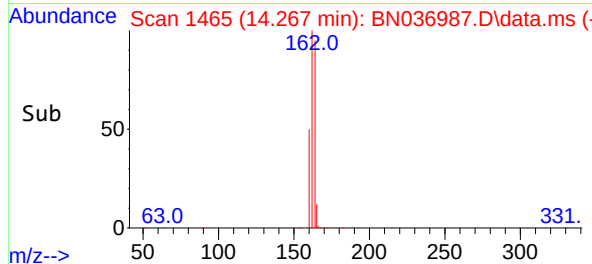
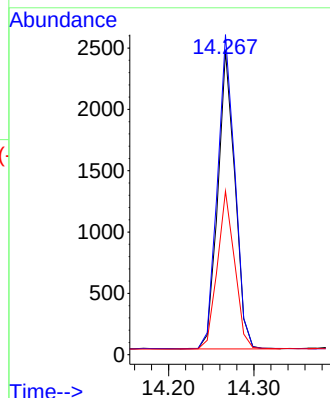
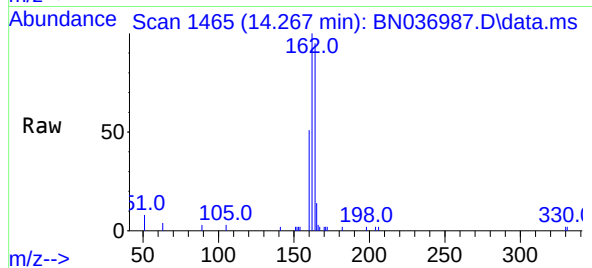




#13
Acenaphthene-d10
Concen: 0.40 ng
RT: 14.267 min Scan# 1465
Delta R.T. 0.000 min
Lab File: BN036987.D
Acq: 12 May 2025 16:43

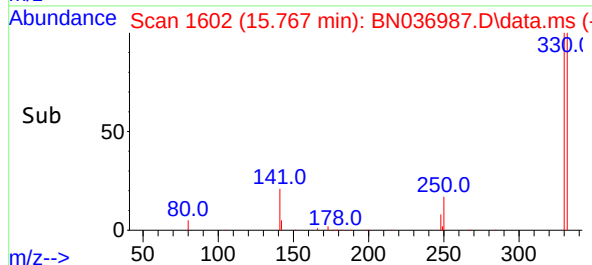
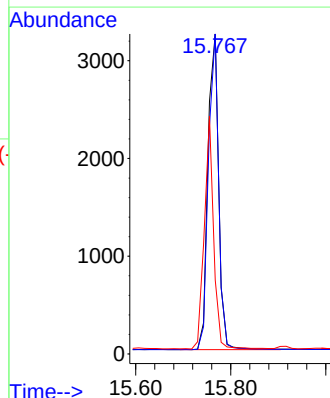
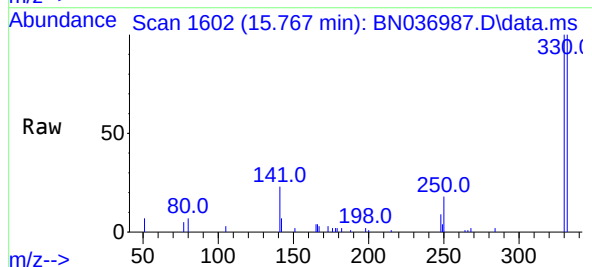
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

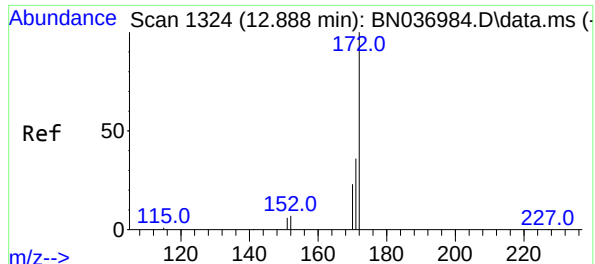
Tgt Ion	164	Resp	3402
Ion	Ratio	Lower	Upper
164	100		
162	105.3	86.1	129.1
160	53.9	44.6	67.0



#14
2,4,6-Tribromophenol
Concen: 3.25 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN036987.D
Acq: 12 May 2025 16:43

Tgt Ion	330	Resp	5077
Ion	Ratio	Lower	Upper
330	100		
332	95.7	75.6	113.4
141	63.9	47.4	71.2

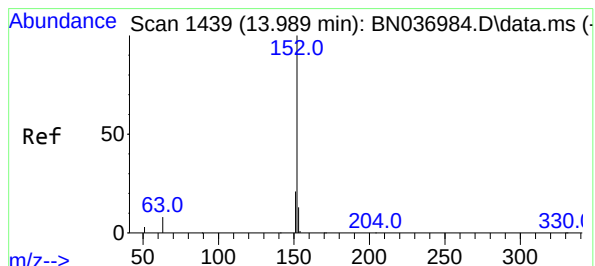
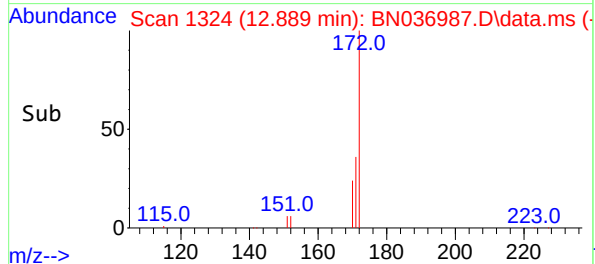
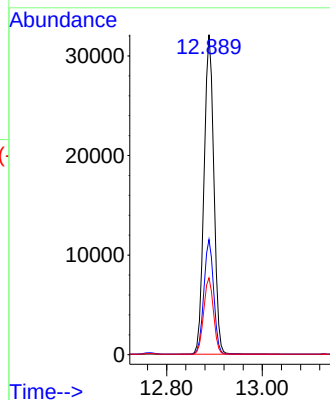
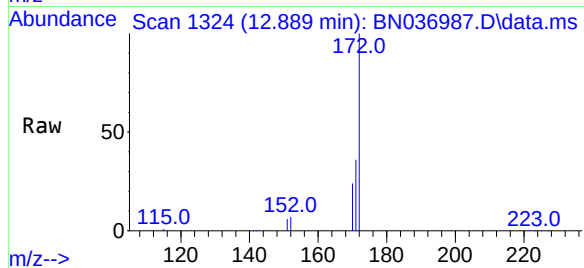




#15
2-Fluorobiphenyl
Concen: 3.13 ng
RT: 12.889 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036987.D
Acq: 12 May 2025 16:43

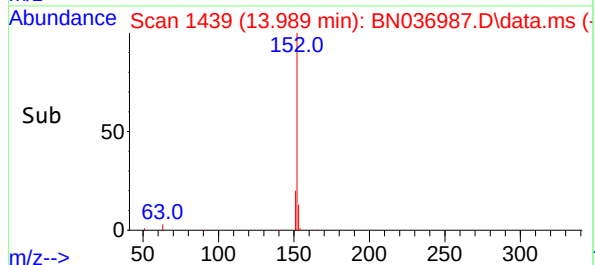
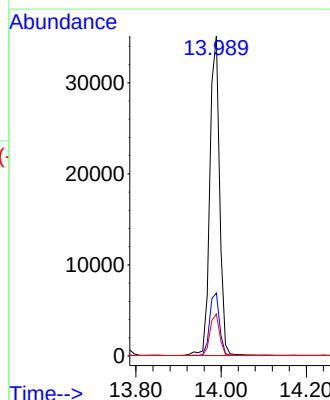
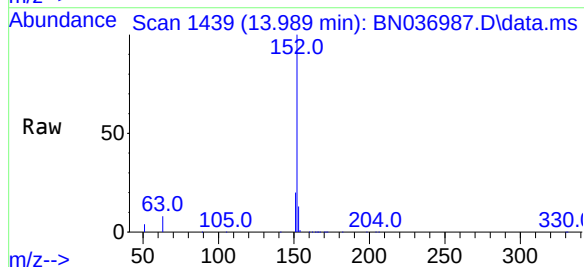
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

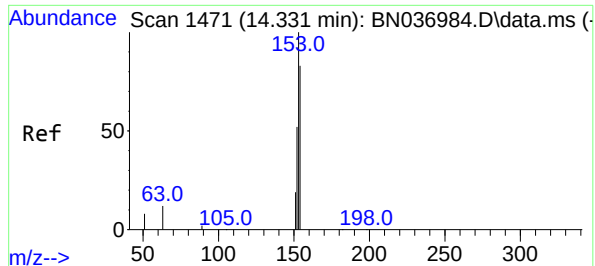
Tgt Ion:172 Resp: 49662
Ion Ratio Lower Upper
172 100
171 36.0 29.4 44.2
170 24.0 19.4 29.0



#16
Acenaphthylene
Concen: 3.34 ng
RT: 13.989 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN036987.D
Acq: 12 May 2025 16:43

Tgt Ion:152 Resp: 55484
Ion Ratio Lower Upper
152 100
151 19.9 16.2 24.4
153 12.9 10.9 16.3

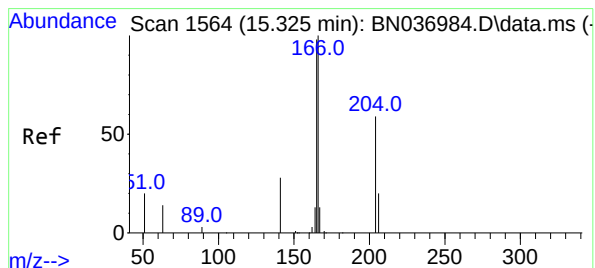
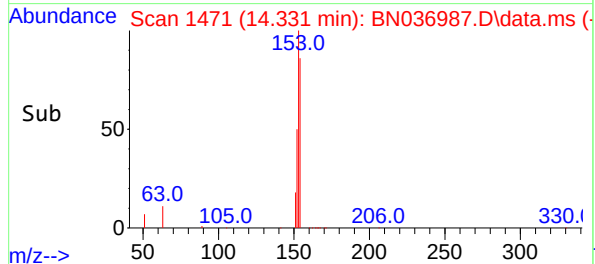
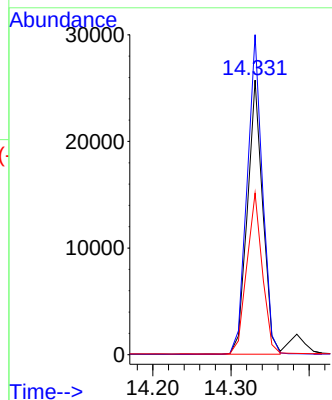
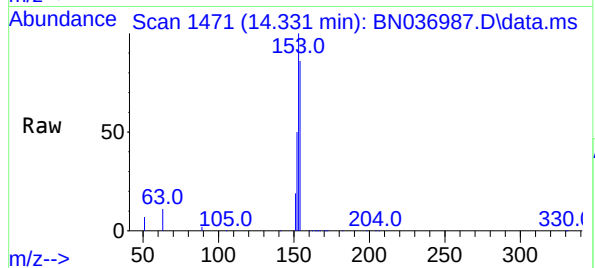




#17
Acenaphthene
Concen: 3.23 ng
RT: 14.331 min Scan# 1471
Delta R.T. 0.000 min
Lab File: BN036987.D
Acq: 12 May 2025 16:43

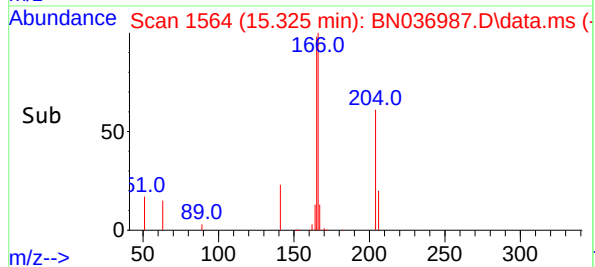
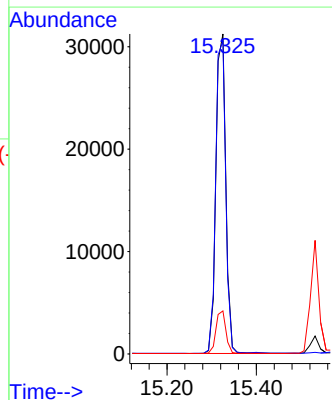
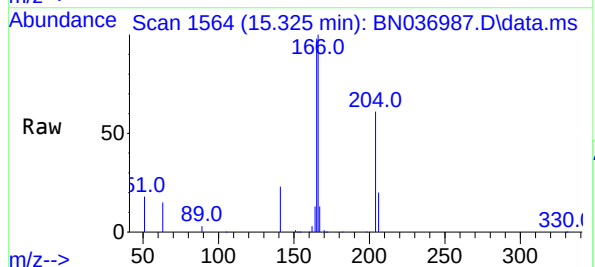
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

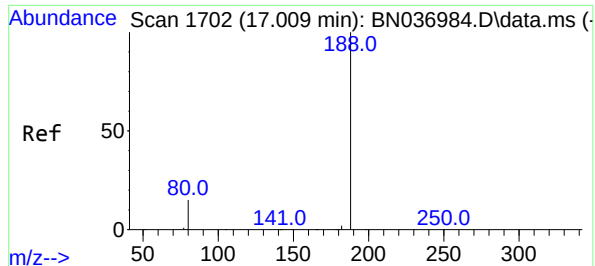
Tgt Ion:154 Resp: 35245
Ion Ratio Lower Upper
154 100
153 116.3 94.6 142.0
152 59.8 49.4 74.2



#18
Fluorene
Concen: 3.26 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.000 min
Lab File: BN036987.D
Acq: 12 May 2025 16:43

Tgt Ion:166 Resp: 47676
Ion Ratio Lower Upper
166 100
165 99.4 81.0 121.4
167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.40 ng

RT: 17.009 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN036987.D

Acq: 12 May 2025 16:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

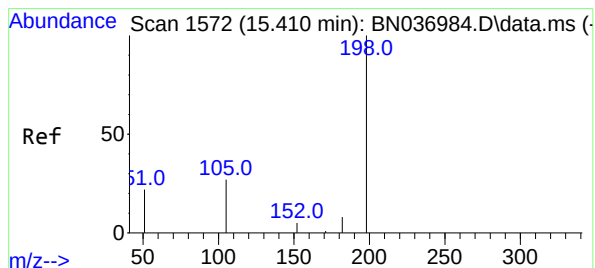
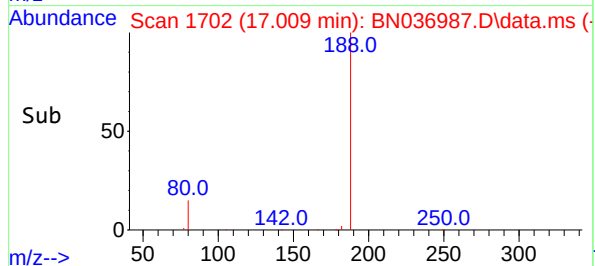
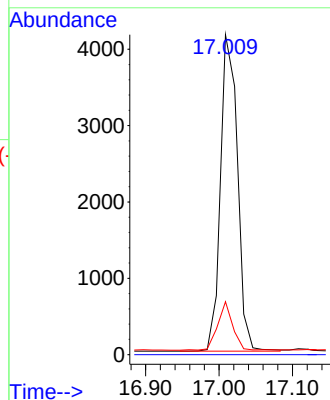
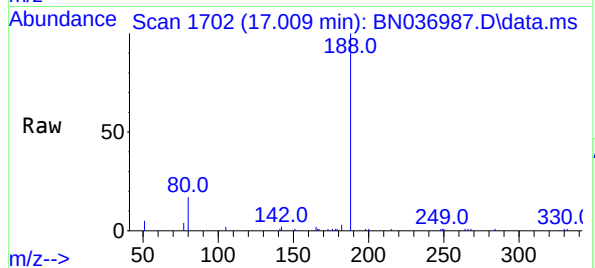
Tgt Ion:188 Resp: 6663

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.5 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 3.69 ng

RT: 15.400 min Scan# 1571

Delta R.T. -0.011 min

Lab File: BN036987.D

Acq: 12 May 2025 16:43

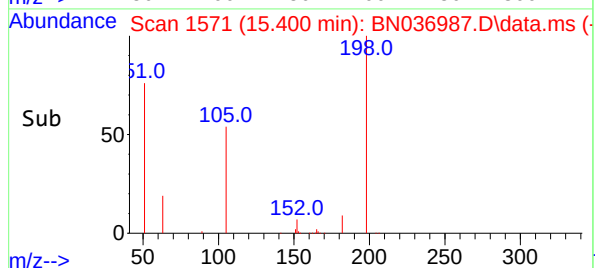
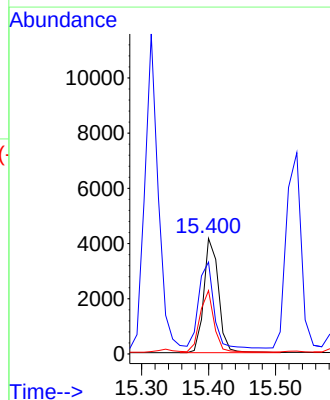
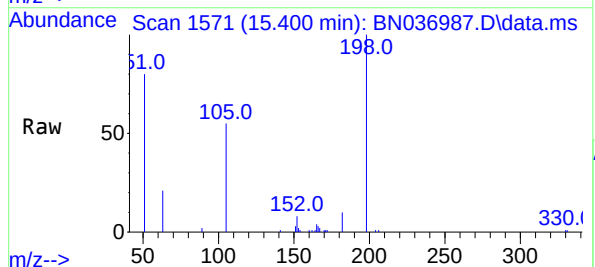
Tgt Ion:198 Resp: 6294

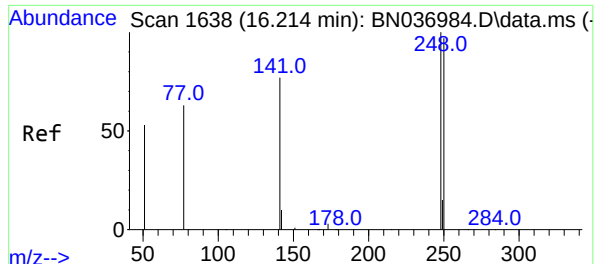
Ion Ratio Lower Upper

198 100

51 79.5 79.7 119.5#

105 54.8 36.0 54.0#

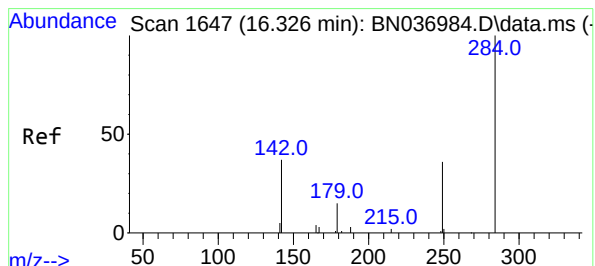
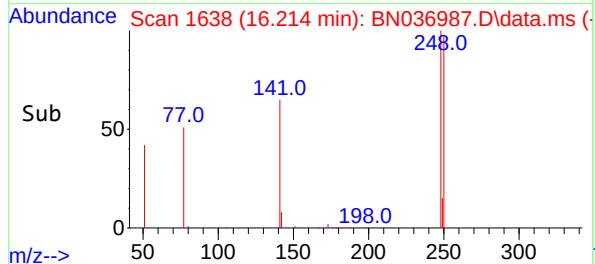
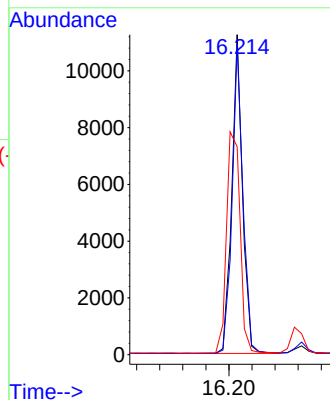
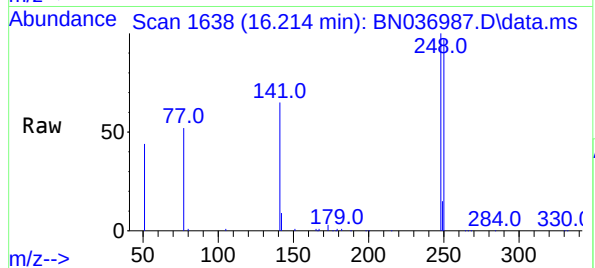




#21
4-Bromophenyl-phenylether
Concen: 3.36 ng
RT: 16.214 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN036987.D
Acq: 12 May 2025 16:43

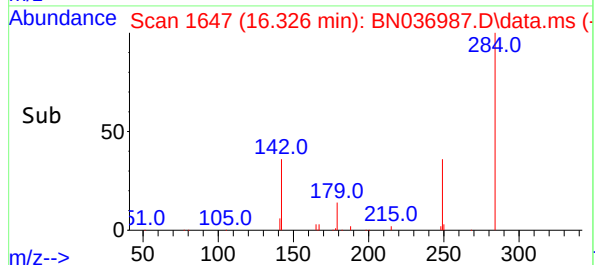
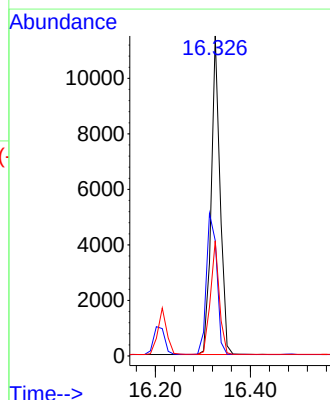
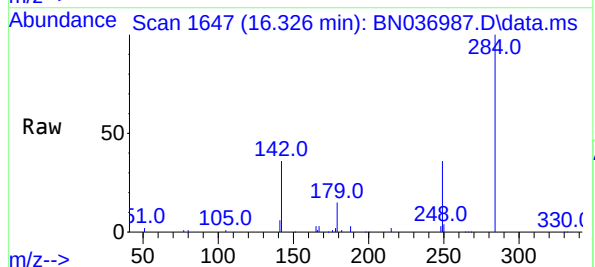
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

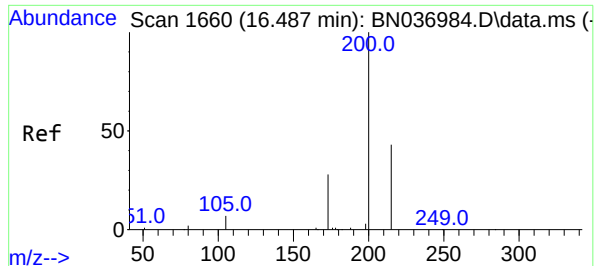
Tgt Ion	Ratio	Lower	Upper
248	100		
250	97.1	77.8	116.8
141	65.0	63.1	94.7



#22
Hexachlorobenzene
Concen: 3.21 ng
RT: 16.326 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN036987.D
Acq: 12 May 2025 16:43

Tgt Ion	Ratio	Lower	Upper
284	100		
142	52.4	41.4	62.2
249	36.0	29.1	43.7

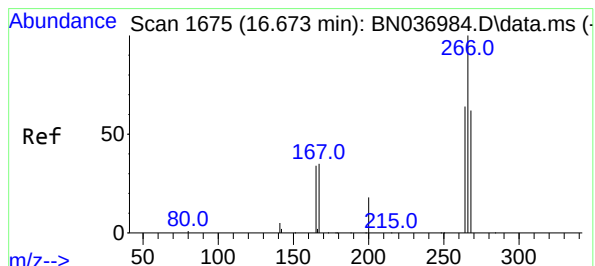
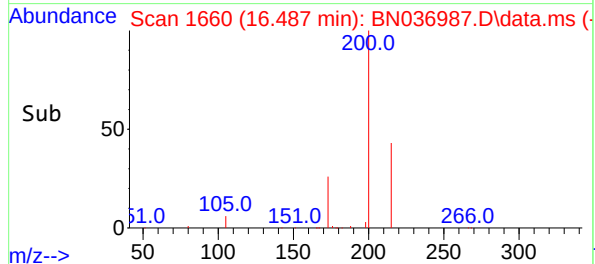
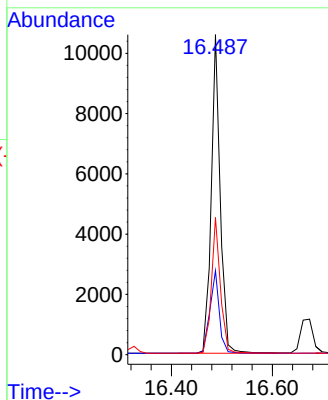
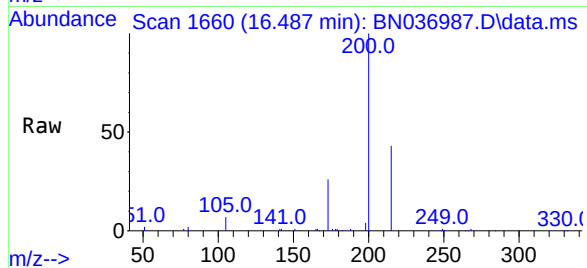




#23
Atrazine
Concen: 3.43 ng
RT: 16.487 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN036987.D
Acq: 12 May 2025 16:43

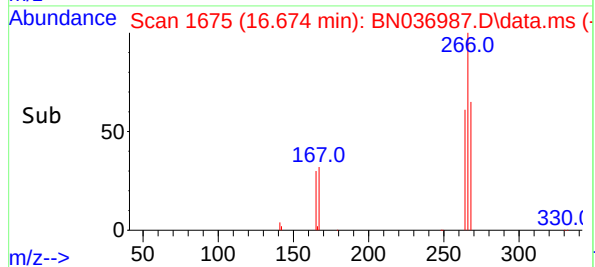
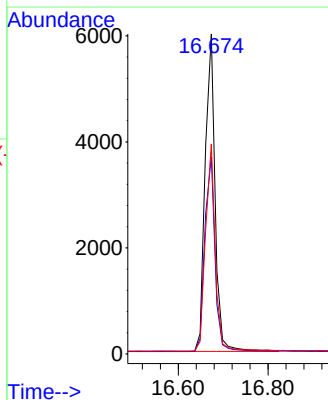
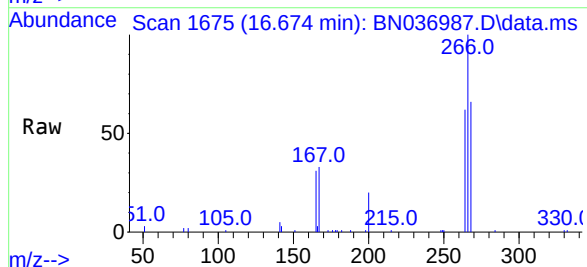
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

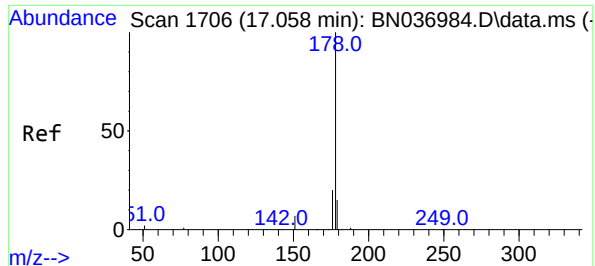
Tgt Ion	Ratio	Lower	Upper
200	100		
173	26.2	25.8	38.6
215	42.8	37.4	56.0



#24
Pentachlorophenol
Concen: 3.59 ng
RT: 16.674 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN036987.D
Acq: 12 May 2025 16:43

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.0	52.8	79.2
268	63.6	50.0	75.0

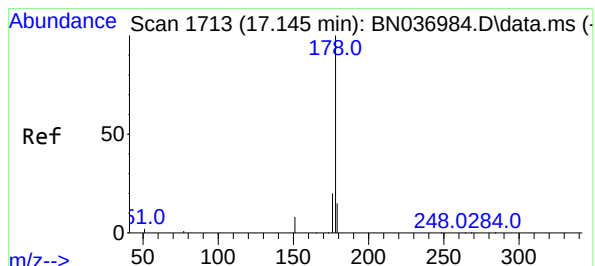
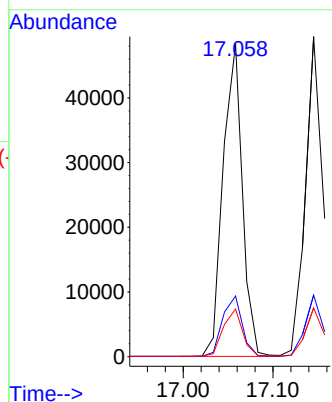
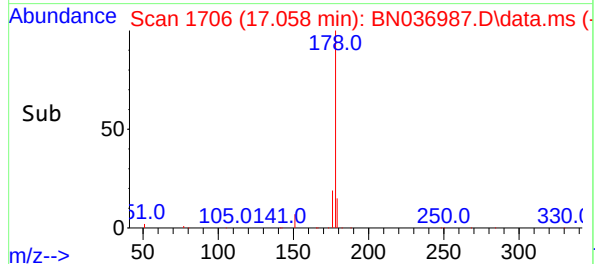
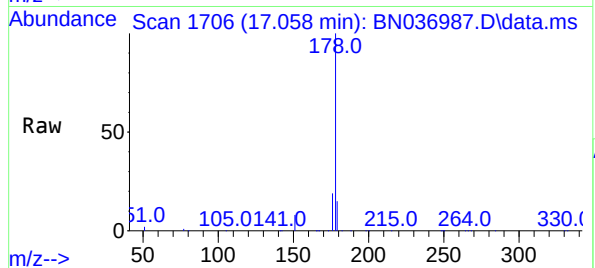




#25
Phenanthrene
Concen: 3.30 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN036987.D
Acq: 12 May 2025 16:43

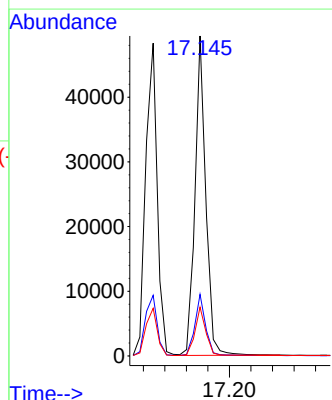
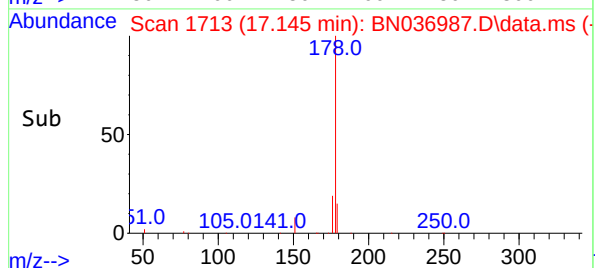
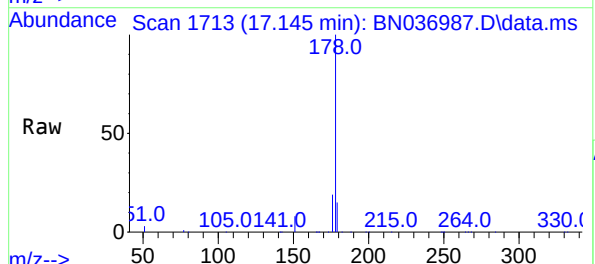
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

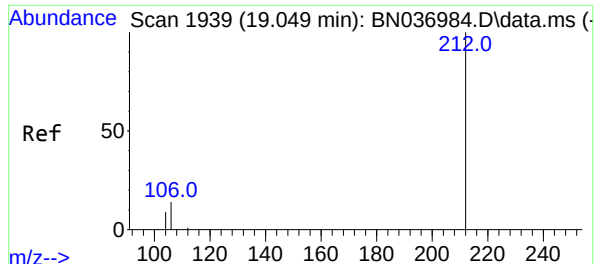
Tgt Ion:178 Resp: 72199
Ion Ratio Lower Upper
178 100
176 19.7 16.0 24.0
179 15.1 12.3 18.5



#26
Anthracene
Concen: 3.44 ng
RT: 17.145 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN036987.D
Acq: 12 May 2025 16:43

Tgt Ion:178 Resp: 68913
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 3.33 ng

RT: 19.049 min Scan# 1939

Delta R.T. 0.000 min

Lab File: BN036987.D

Acq: 12 May 2025 16:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

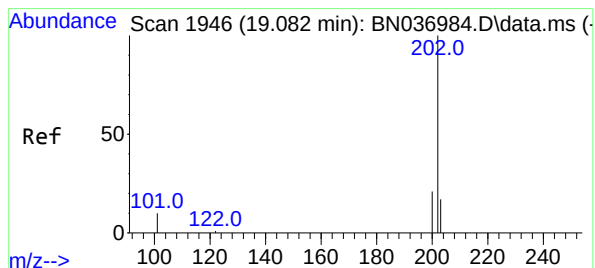
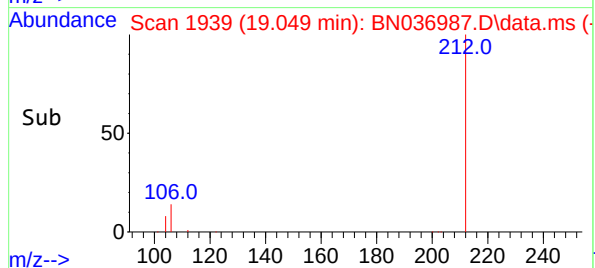
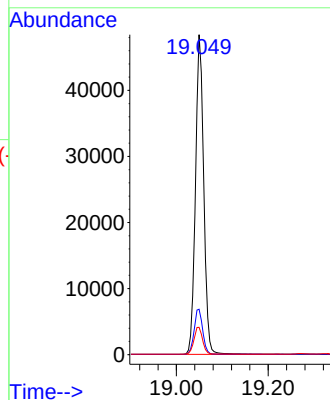
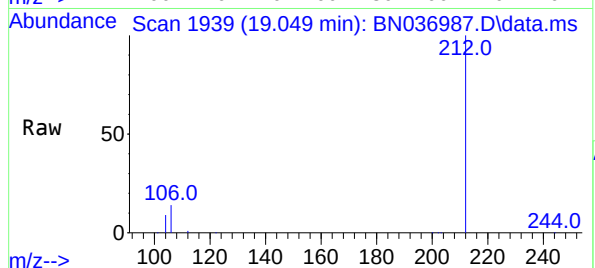
Tgt Ion:212 Resp: 60220

Ion Ratio Lower Upper

212 100

106 14.7 11.3 16.9

104 8.8 7.0 10.4



#28

Fluoranthene

Concen: 3.40 ng

RT: 19.082 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN036987.D

Acq: 12 May 2025 16:43

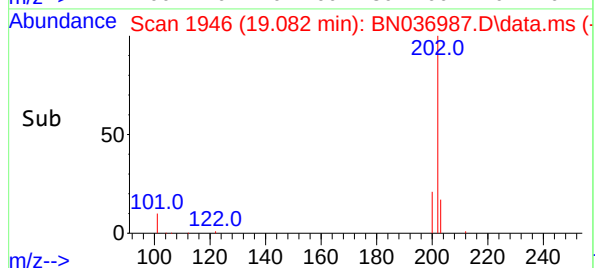
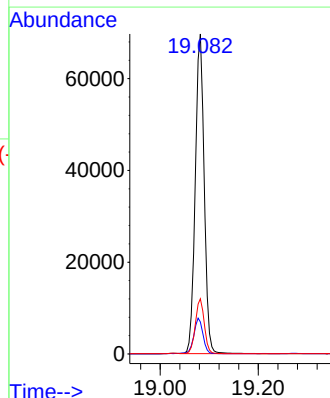
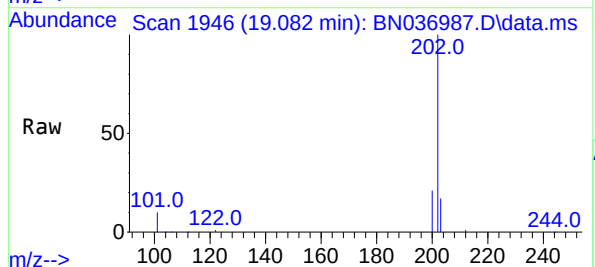
Tgt Ion:202 Resp: 87653

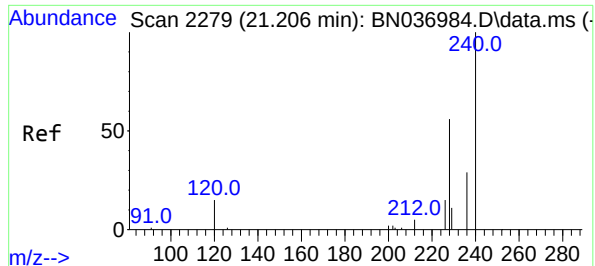
Ion Ratio Lower Upper

202 100

101 11.5 8.6 12.8

203 17.1 13.5 20.3





#29

Chrysene-d12

Concen: 0.40 ng

RT: 21.207 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036987.D

Acq: 12 May 2025 16:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

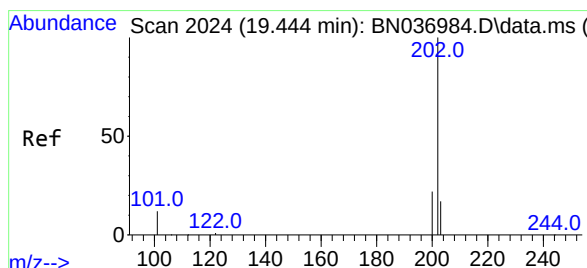
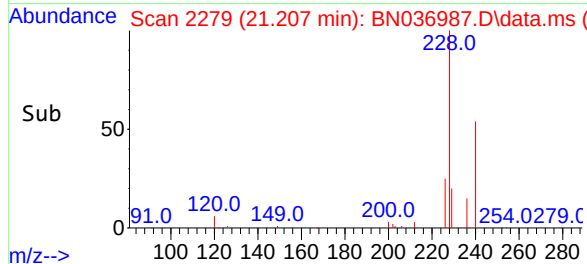
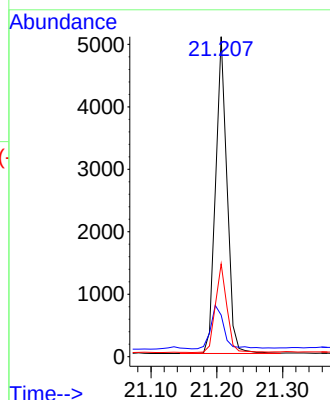
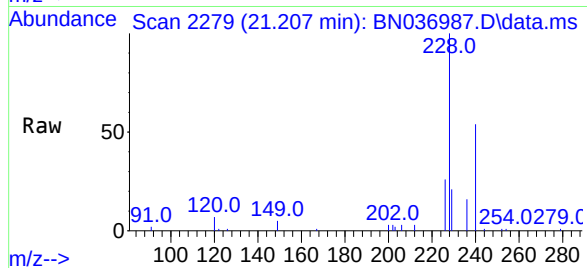
Tgt Ion:240 Resp: 6130

Ion Ratio Lower Upper

240 100

120 13.0 14.5 21.7#

236 29.0 24.3 36.5



#30

Pyrene

Concen: 3.17 ng

RT: 19.444 min Scan# 2024

Delta R.T. 0.000 min

Lab File: BN036987.D

Acq: 12 May 2025 16:43

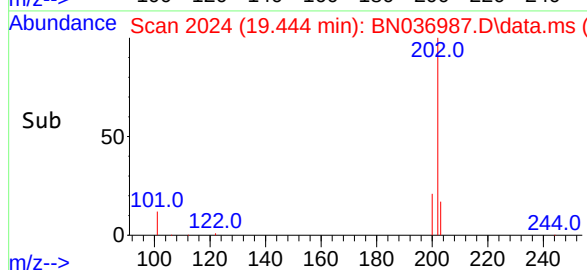
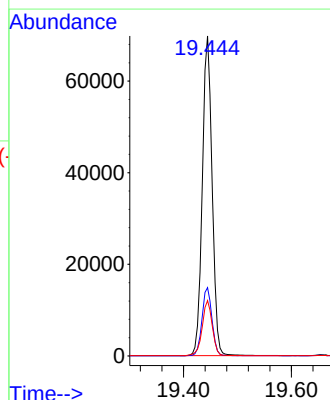
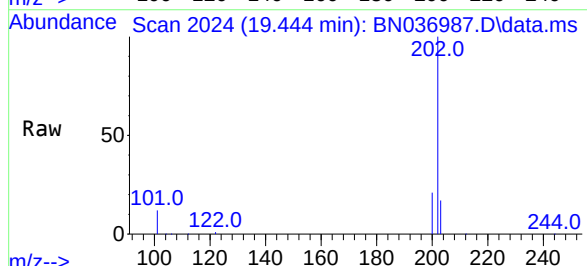
Tgt Ion:202 Resp: 88157

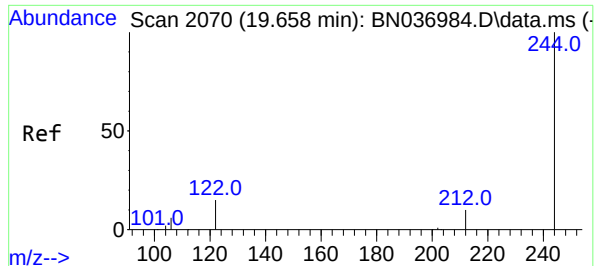
Ion Ratio Lower Upper

202 100

200 21.6 17.3 25.9

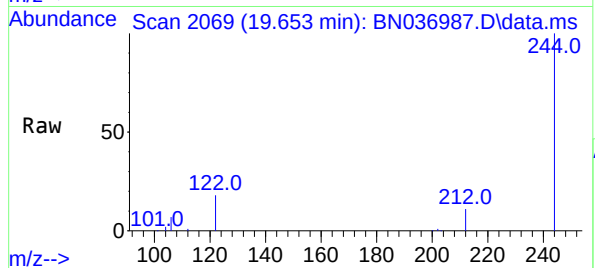
203 17.7 14.4 21.6



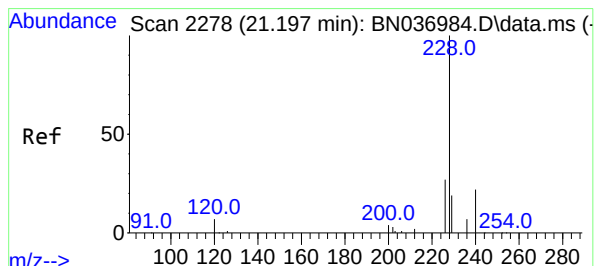
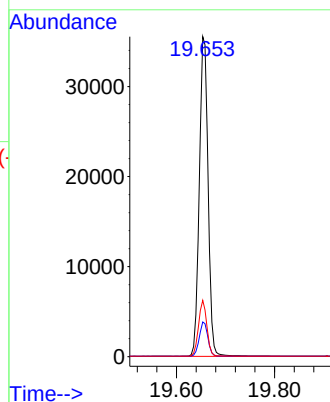


#31
Terphenyl-d14
Concen: 3.16 ng
RT: 19.653 min Scan# 2069
Delta R.T. -0.005 min
Lab File: BN036987.D
Acq: 12 May 2025 16:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

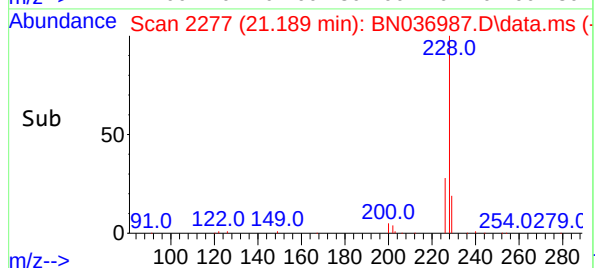
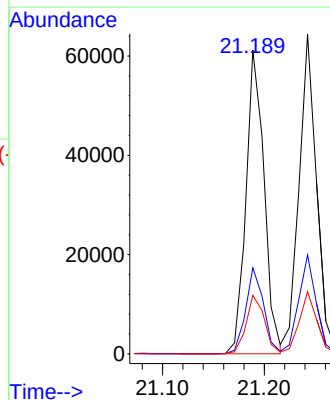
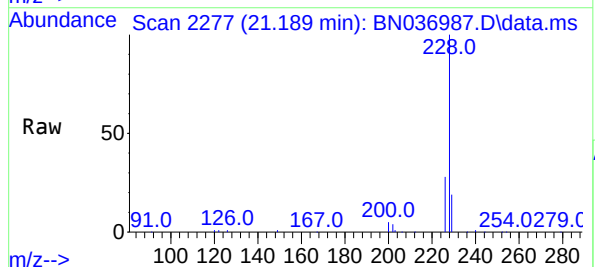


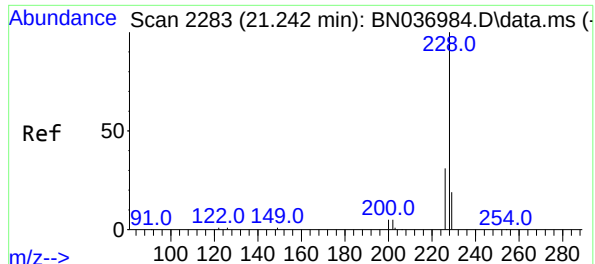
Tgt Ion:244 Resp: 43834
Ion Ratio Lower Upper
244 100
212 10.8 9.5 14.3
122 17.6 13.4 20.0



#32
Benzo(a)anthracene
Concen: 3.26 ng
RT: 21.189 min Scan# 2277
Delta R.T. -0.009 min
Lab File: BN036987.D
Acq: 12 May 2025 16:43

Tgt Ion:228 Resp: 75491
Ion Ratio Lower Upper
228 100
226 28.4 22.4 33.6
229 19.3 16.0 24.0





#33

Chrysene

Concen: 3.20 ng

RT: 21.242 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036987.D

Acq: 12 May 2025 16:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

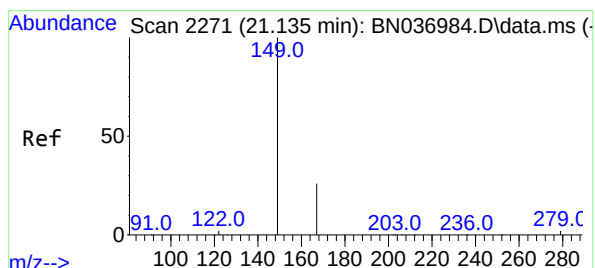
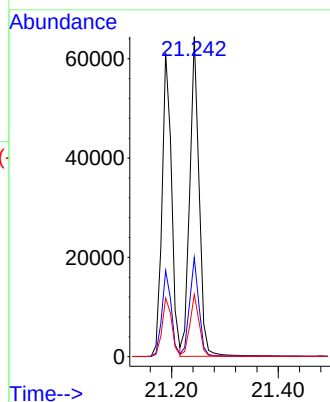
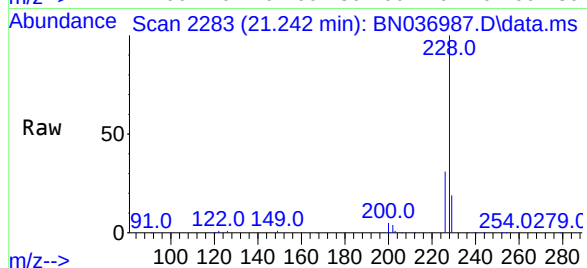
Tgt Ion:228 Resp: 78444

Ion Ratio Lower Upper

228 100

226 30.9 25.7 38.5

229 19.5 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.12 ng

RT: 21.135 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BN036987.D

Acq: 12 May 2025 16:43

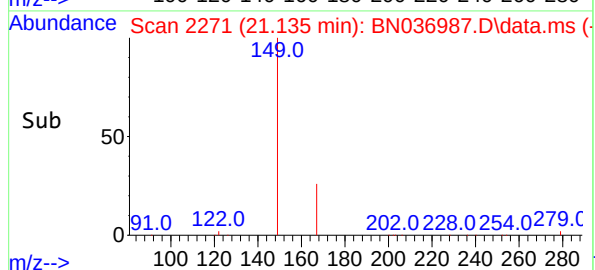
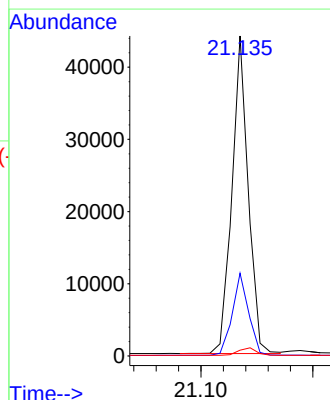
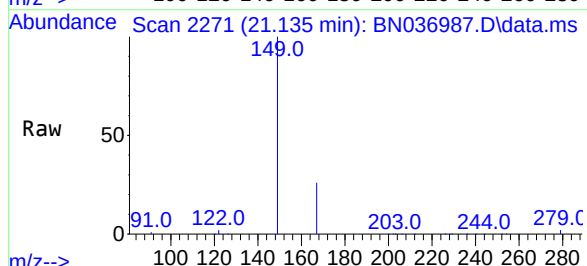
Tgt Ion:149 Resp: 44488

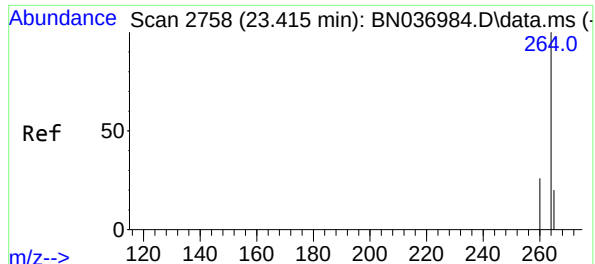
Ion Ratio Lower Upper

149 100

167 26.1 21.0 31.6

279 2.6 2.7 4.1#

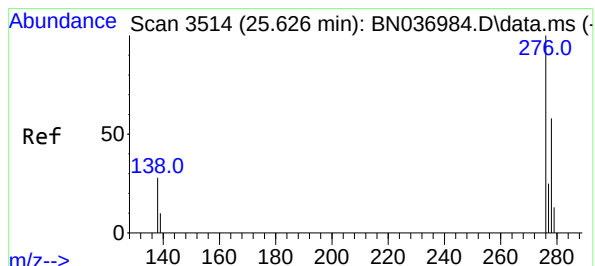
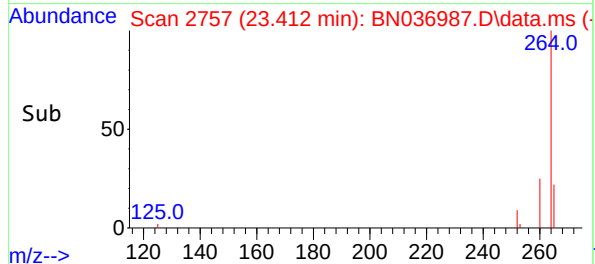
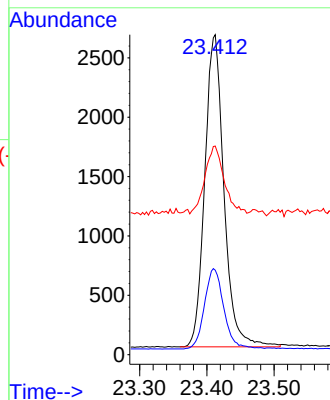
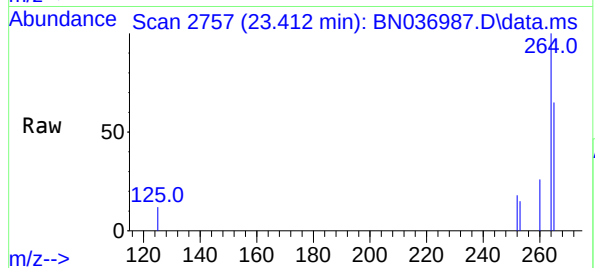




#35
Perylene-d12
Concen: 0.40 ng
RT: 23.412 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN036987.D
Acq: 12 May 2025 16:43

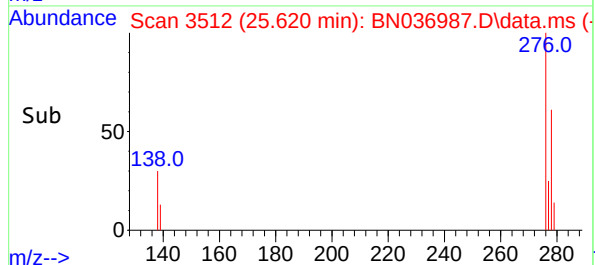
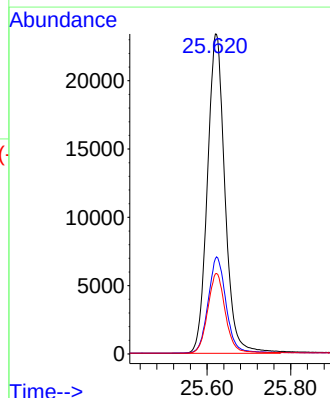
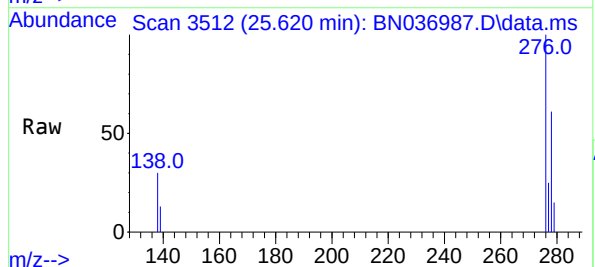
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

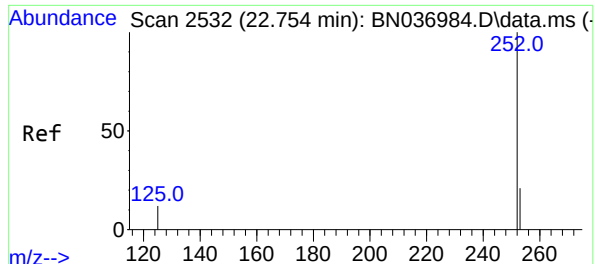
Tgt Ion:264 Resp: 5208
Ion Ratio Lower Upper
264 100
260 26.4 22.3 33.5
265 65.2 55.4 83.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 3.31 ng
RT: 25.620 min Scan# 3512
Delta R.T. -0.006 min
Lab File: BN036987.D
Acq: 12 May 2025 16:43

Tgt Ion:276 Resp: 68130
Ion Ratio Lower Upper
276 100
138 30.7 21.8 32.8
277 25.1 20.2 30.4





#37

Benzo(b)fluoranthene

Concen: 3.36 ng

RT: 22.749 min Scan# 2530

Delta R.T. -0.006 min

Lab File: BN036987.D

Acq: 12 May 2025 16:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

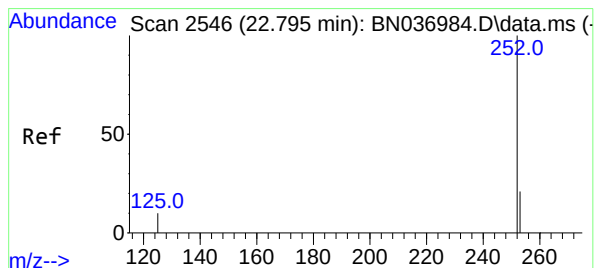
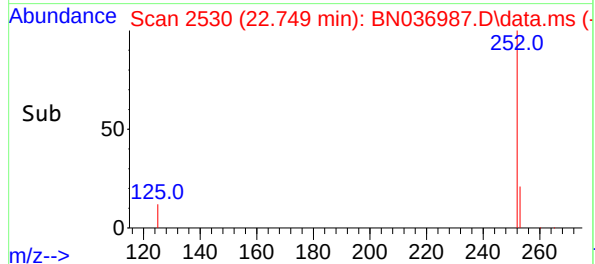
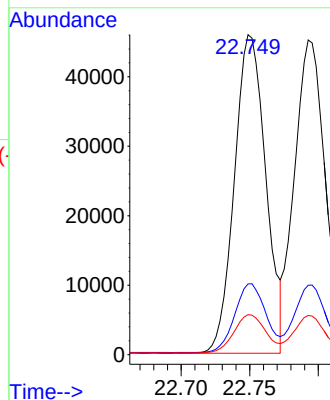
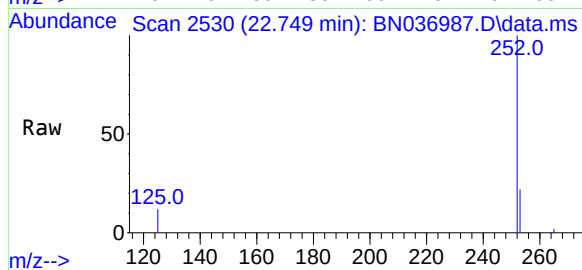
Tgt Ion:252 Resp: 72933

Ion Ratio Lower Upper

252 100

253 22.1 21.9 32.9

125 12.5 13.8 20.8#



#38

Benzo(k)fluoranthene

Concen: 3.36 ng

RT: 22.793 min Scan# 2545

Delta R.T. -0.003 min

Lab File: BN036987.D

Acq: 12 May 2025 16:43

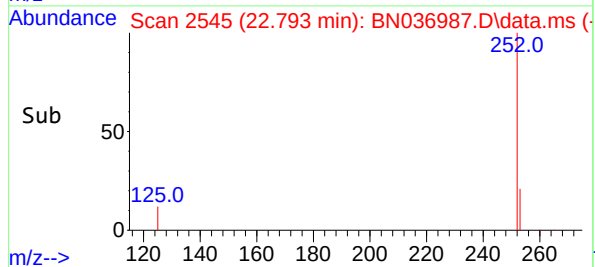
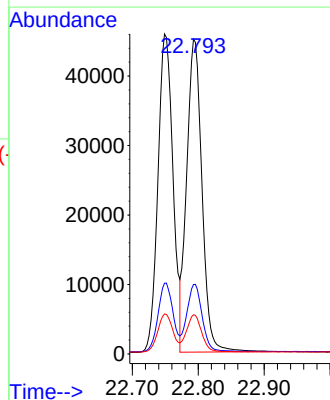
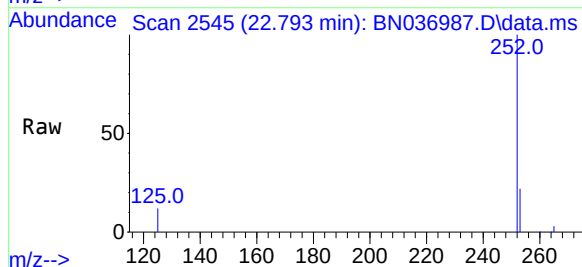
Tgt Ion:252 Resp: 72470

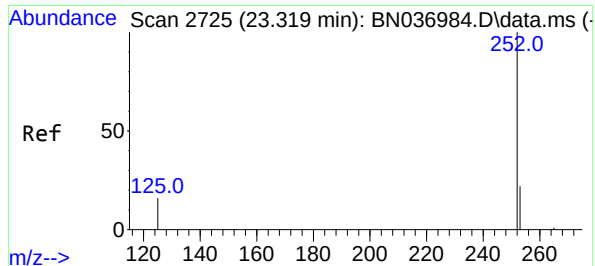
Ion Ratio Lower Upper

252 100

253 22.1 22.0 33.0

125 12.5 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 3.37 ng

RT: 23.313 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036987.D

Acq: 12 May 2025 16:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

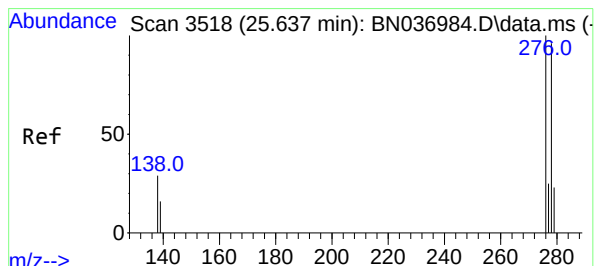
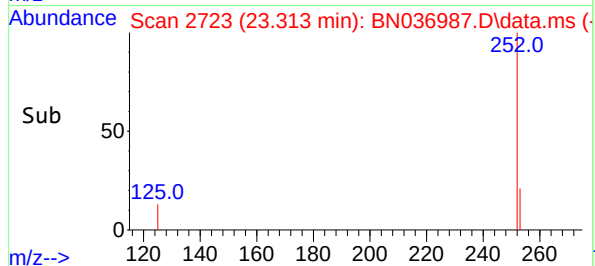
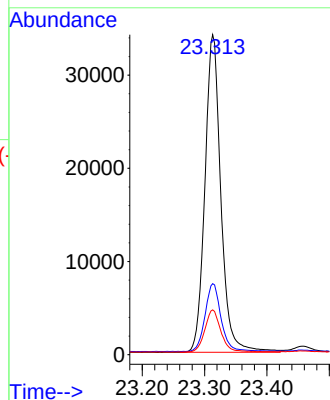
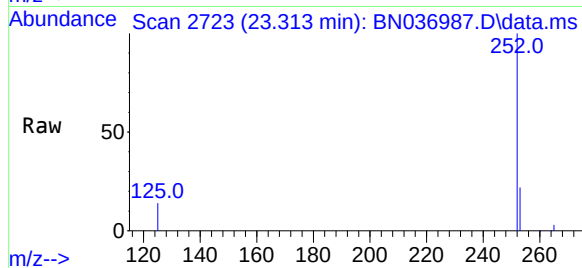
Tgt Ion:252 Resp: 60775

Ion Ratio Lower Upper

252 100

253 22.2 24.8 37.2#

125 14.0 18.6 28.0#



#40

Dibenzo(a,h)anthracene

Concen: 3.37 ng

RT: 25.634 min Scan# 3517

Delta R.T. -0.003 min

Lab File: BN036987.D

Acq: 12 May 2025 16:43

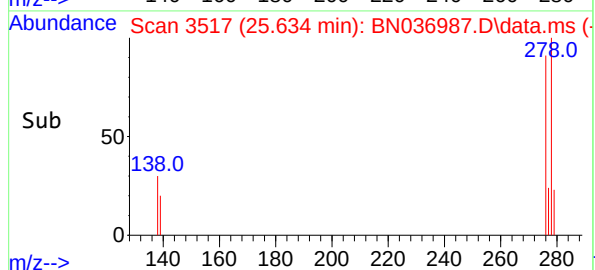
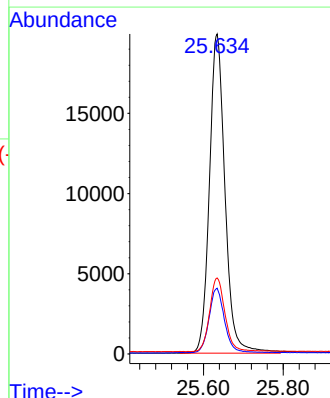
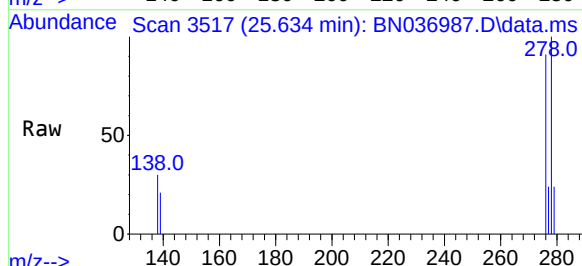
Tgt Ion:278 Resp: 54106

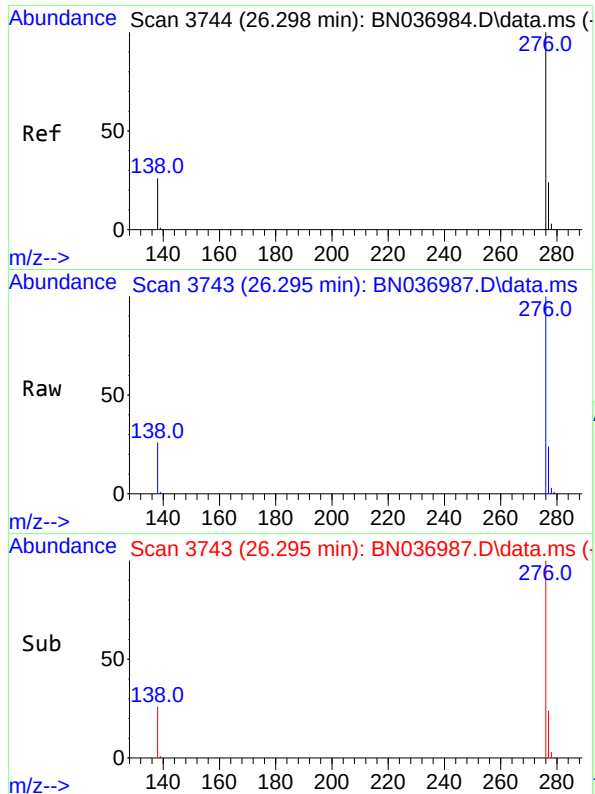
Ion Ratio Lower Upper

278 100

139 20.6 18.1 27.1

279 23.7 25.3 37.9#





#41

Benzo(g,h,i)perylene

Concen: 3.21 ng

RT: 26.295 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN036987.D

Acq: 12 May 2025 16:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

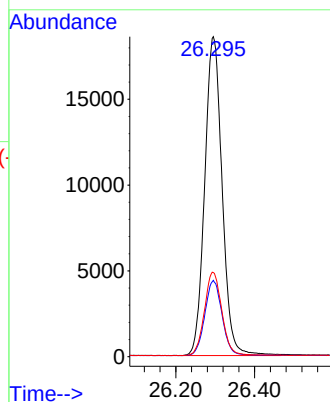
Tgt Ion:276 Resp: 57030

Ion Ratio Lower Upper

276 100

277 23.9 21.2 31.8

138 26.3 22.6 33.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051225\
 Data File : BN036988.D
 Acq On : 12 May 2025 17:19
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: May 12 17:54:25 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 12 17:44:09 2025
 Response via : Initial Calibration

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

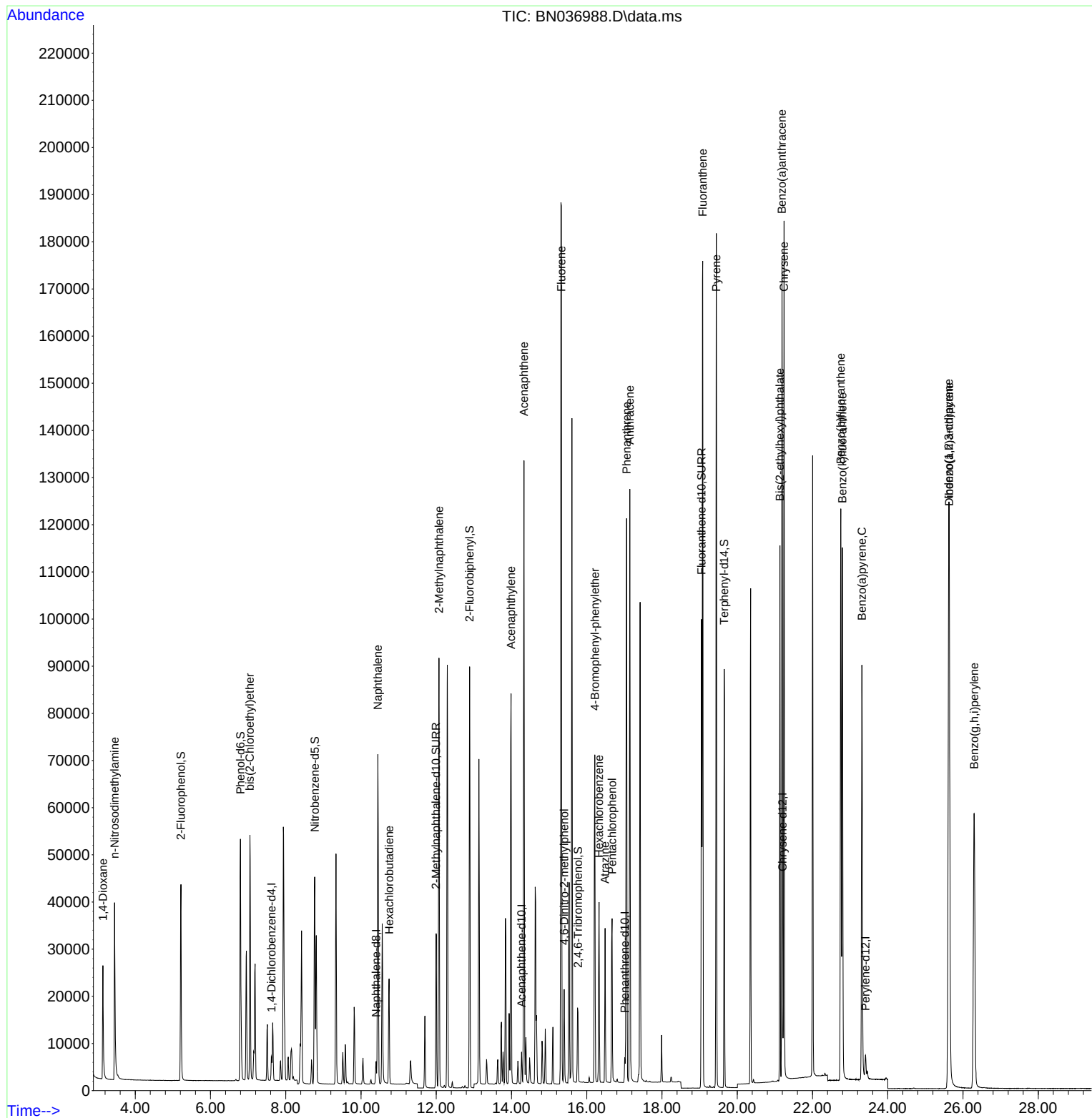
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.618	152	2312	0.40	ng	0.00
7) Naphthalene-d8	10.404	136	5820	0.40	ng	0.00
13) Acenaphthene-d10	14.267	164	3482	0.40	ng	0.00
19) Phenanthrene-d10	17.009	188	6959	0.40	ng	0.00
29) Chrysene-d12	21.207	240	6980	0.40	ng	# 0.00
35) Perylene-d12	23.410	264	6250	0.40	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	28585	4.80	ng	0.00
5) Phenol-d6	6.795	99	37236	5.15	ng	0.00
8) Nitrobenzene-d5	8.771	82	32610	5.32	ng	0.00
11) 2-Methylnaphthalene-d10	11.996	152	43107	5.27	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	8304	5.20	ng	0.00
15) 2-Fluorobiphenyl	12.889	172	81308	5.00	ng	0.00
27) Fluoranthene-d10	19.049	212	102164	5.40	ng	0.00
31) Terphenyl-d14	19.653	244	74610	4.72	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.141	88	13420	4.48	ng	97
3) n-Nitrosodimethylamine	3.451	42	27939	4.57	ng	95
6) bis(2-Chloroethyl)ether	7.048	93	33535	5.00	ng	98
9) Naphthalene	10.447	128	85610	5.06	ng	96
10) Hexachlorobutadiene	10.746	225	17281	4.76	ng	# 100
12) 2-Methylnaphthalene	12.072	142	58018	5.29	ng	98
16) Acenaphthylene	13.989	152	89963	5.29	ng	99
17) Acenaphthene	14.331	154	56812	5.08	ng	98
18) Fluorene	15.325	166	77200	5.15	ng	99
20) 4,6-Dinitro-2-methylph...	15.400	198	11403	6.41	ng	# 79
21) 4-Bromophenyl-phenylether	16.214	248	23346	5.17	ng	93
22) Hexachlorobenzene	16.326	284	23781	4.92	ng	99
23) Atrazine	16.487	200	21989	5.52	ng	92
24) Pentachlorophenol	16.674	266	15579	5.81	ng	97
25) Phenanthrene	17.058	178	118851	5.20	ng	99
26) Anthracene	17.145	178	115094	5.51	ng	100
28) Fluoranthene	19.082	202	147451	5.48	ng	98
30) Pyrene	19.444	202	150012	4.74	ng	100
32) Benzo(a)anthracene	21.189	228	136571	5.17	ng	99
33) Chrysene	21.242	228	139020	4.99	ng	98
34) Bis(2-ethylhexyl)phtha...	21.135	149	87281	5.37	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.620	276	135754	5.50	ng	96
37) Benzo(b)fluoranthene	22.752	252	135962	5.22	ng	# 89
38) Benzo(k)fluoranthene	22.793	252	134619	5.20	ng	# 89
39) Benzo(a)pyrene	23.313	252	115617	5.34	ng	# 83
40) Dibenzo(a,h)anthracene	25.634	278	106822	5.55	ng	# 90
41) Benzo(g,h,i)perylene	26.295	276	111955	5.25	ng	95

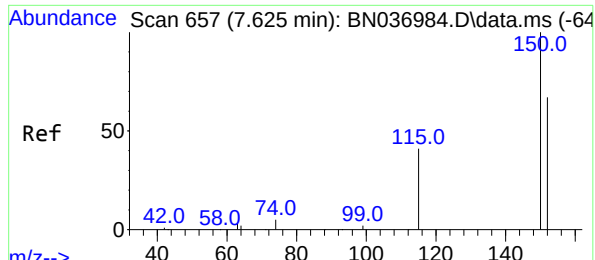
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051225\
Data File : BN036988.D
Acq On : 12 May 2025 17:19
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: May 12 17:54:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 12 17:44:09 2025
Response via : Initial Calibration

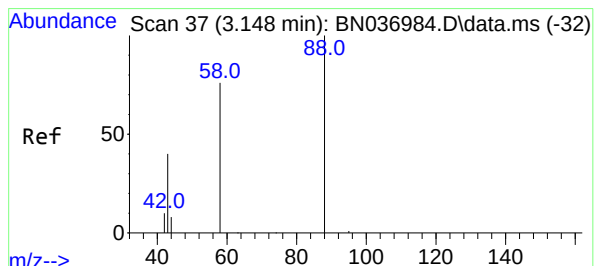
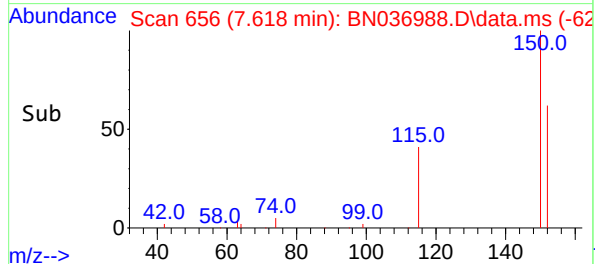
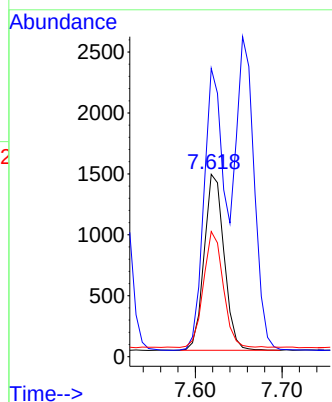
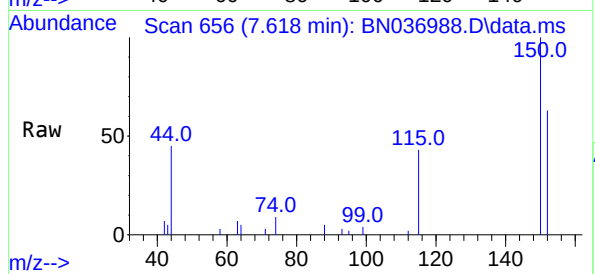




#1
1,4-Dichlorobenzene-d4
Concen: 0.40 ng
RT: 7.618 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN036988.D
Acq: 12 May 2025 17:19

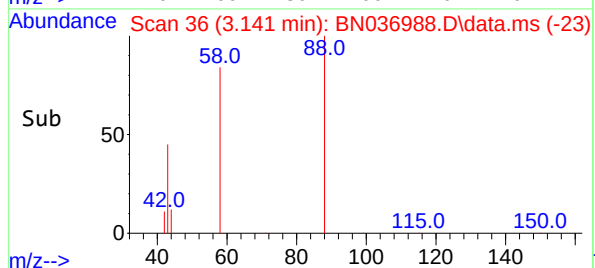
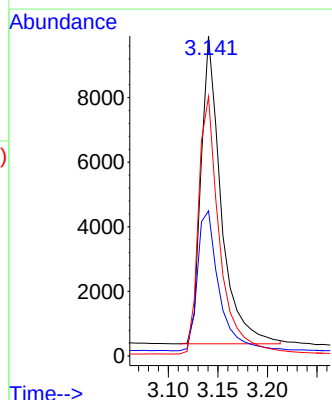
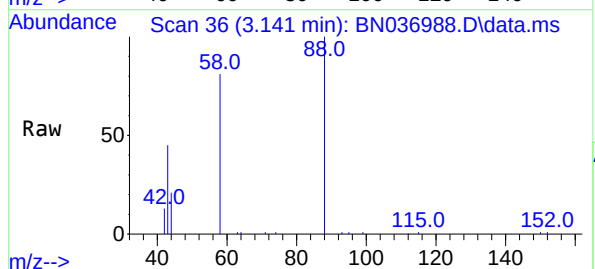
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 2312
Ion Ratio Lower Upper
152 100
150 158.0 118.2 177.4
115 68.6 52.5 78.7

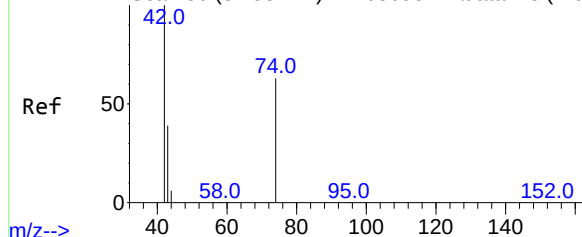


#2
1,4-Dioxane
Concen: 4.48 ng
RT: 3.141 min Scan# 36
Delta R.T. -0.007 min
Lab File: BN036988.D
Acq: 12 May 2025 17:19

Tgt Ion: 88 Resp: 13420
Ion Ratio Lower Upper
88 100
43 49.5 43.3 64.9
58 88.1 70.7 106.1



Abundance Scan 80 (3.458 min): BN036984.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 4.57 ng

RT: 3.451 min Scan# 79

Delta R.T. -0.007 min

Lab File: BN036988.D

Acq: 12 May 2025 17:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

Tgt Ion: 42 Resp: 27939

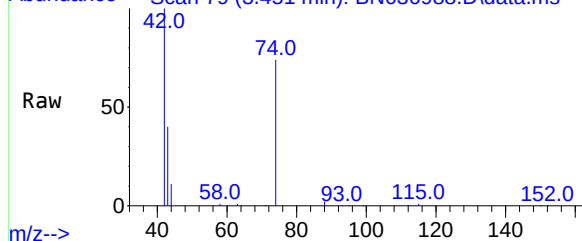
Ion Ratio Lower Upper

42 100

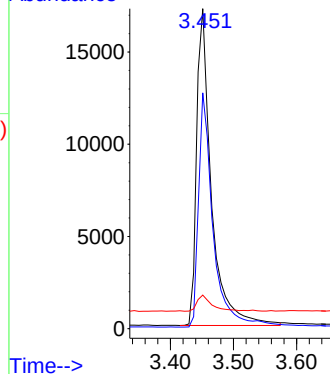
74 73.1 55.2 82.8

44 5.5 4.7 7.1

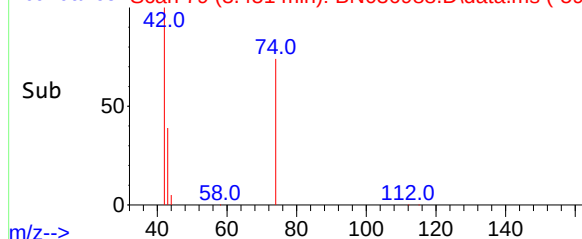
Abundance Scan 79 (3.451 min): BN036988.D\data.ms



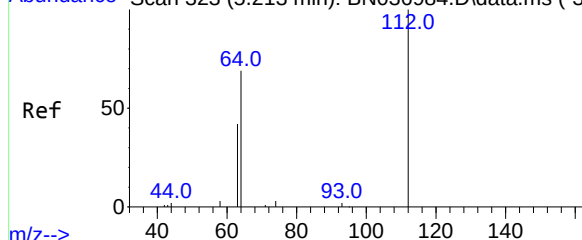
Abundance



Abundance Scan 79 (3.451 min): BN036988.D\data.ms (-59)



Abundance Scan 323 (5.213 min): BN036988.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 4.80 ng

RT: 5.213 min Scan# 323

Delta R.T. 0.000 min

Lab File: BN036988.D

Acq: 12 May 2025 17:19

Tgt Ion: 112 Resp: 28585

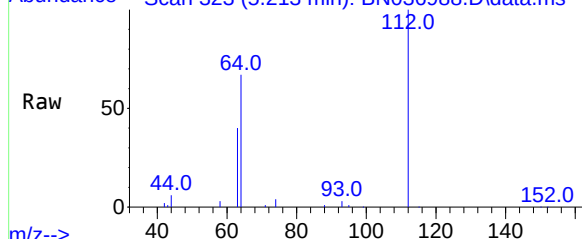
Ion Ratio Lower Upper

112 100

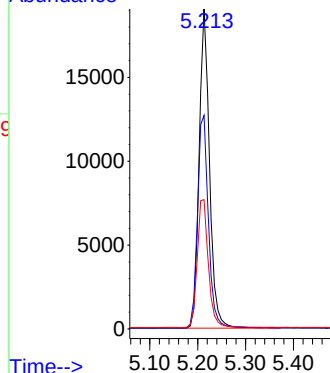
64 70.5 56.2 84.2

63 43.0 34.3 51.5

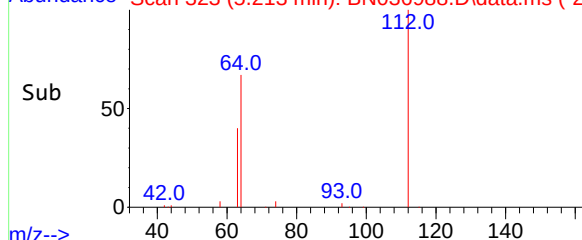
Abundance Scan 323 (5.213 min): BN036988.D\data.ms

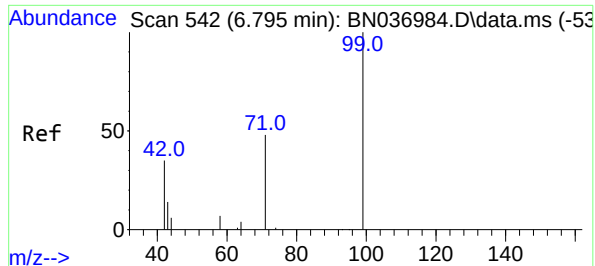


Abundance



Abundance Scan 323 (5.213 min): BN036988.D\data.ms (-29)





#5

Phenol-d6

Concen: 5.15 ng

RT: 6.795 min Scan# 54

Delta R.T. 0.000 min

Lab File: BN036988.D

Acq: 12 May 2025 17:19

Instrument :

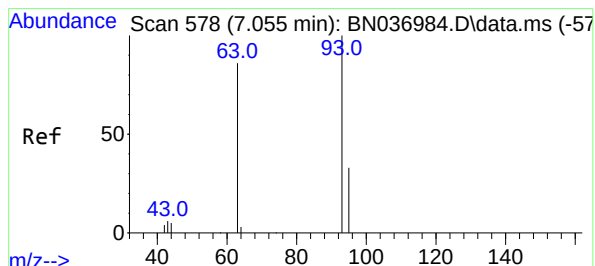
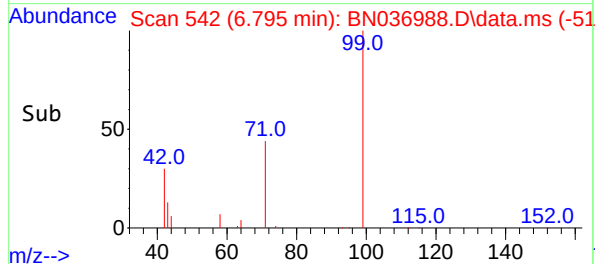
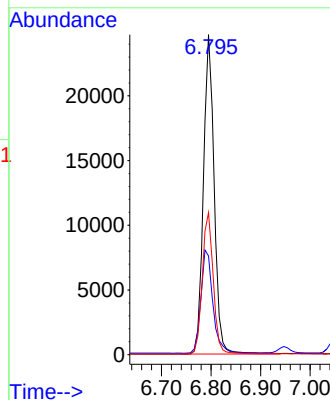
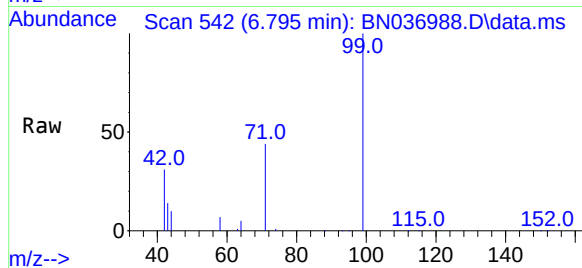
BNA_N

ClientSampleId :

SSTDICC5.0

Tgt Ion: 99 Resp: 37236

Ion	Ratio	Lower	Upper
99	100		
42	36.0	29.0	43.6
71	45.4	36.2	54.2



#6

bis(2-Chloroethyl)ether

Concen: 5.00 ng

RT: 7.048 min Scan# 577

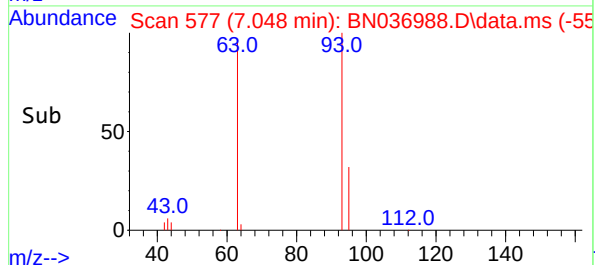
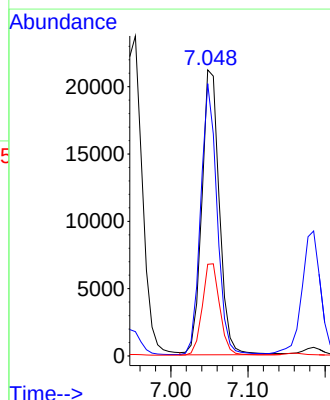
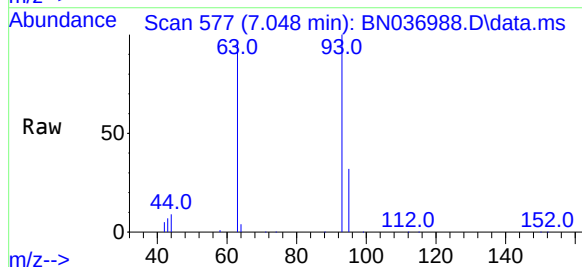
Delta R.T. -0.007 min

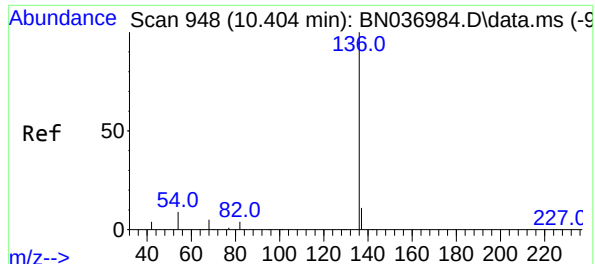
Lab File: BN036988.D

Acq: 12 May 2025 17:19

Tgt Ion: 93 Resp: 33535

Ion	Ratio	Lower	Upper
93	100		
63	88.6	69.6	104.4
95	32.0	25.1	37.7

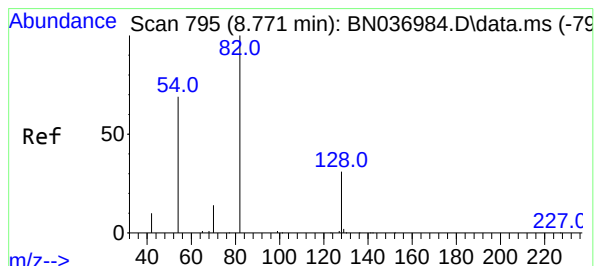
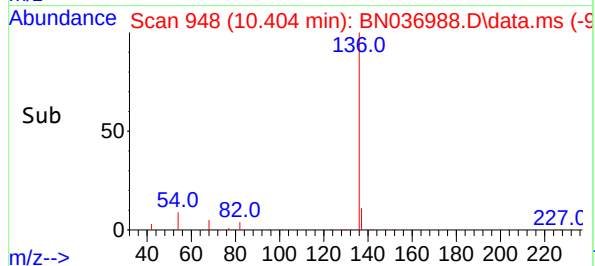
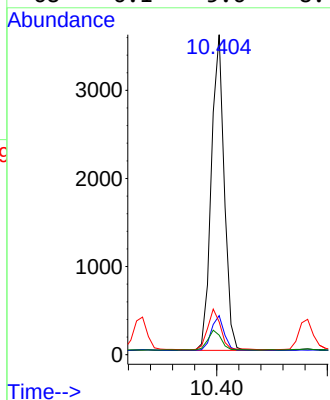
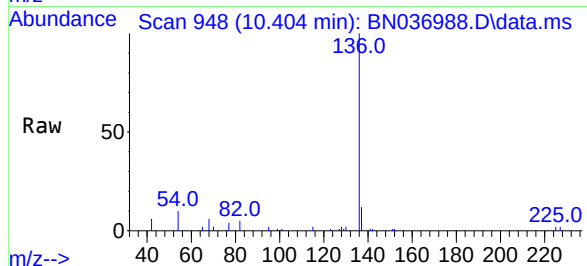




#7
Naphthalene-d8
Concen: 0.40 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN036988.D
Acq: 12 May 2025 17:19

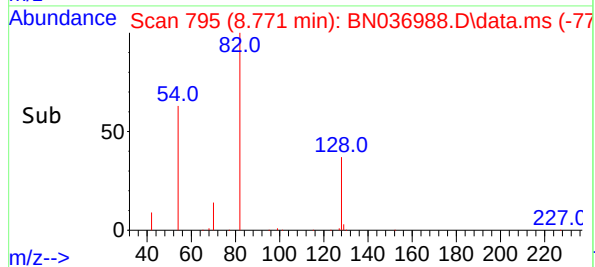
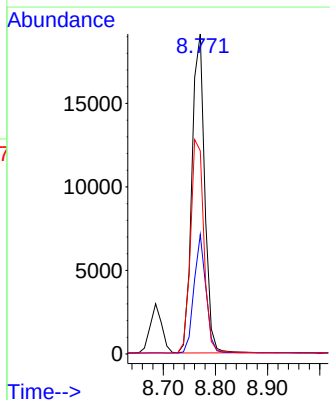
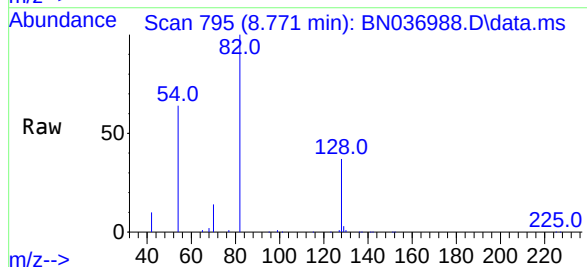
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

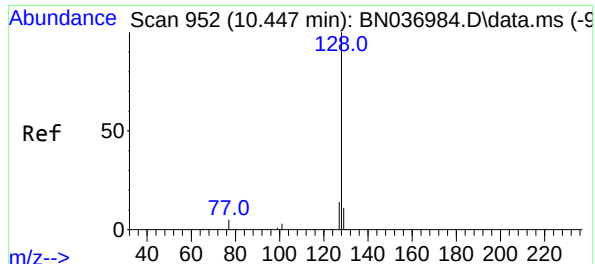
Tgt Ion:	136	Resp:	5820
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.3	15.5
54	10.3	9.2	13.8
68	6.1	5.6	8.4



#8
Nitrobenzene-d5
Concen: 5.32 ng
RT: 8.771 min Scan# 795
Delta R.T. 0.000 min
Lab File: BN036988.D
Acq: 12 May 2025 17:19

Tgt Ion:	82	Resp:	32610
Ion	Ratio	Lower	Upper
82	100		
128	37.3	28.1	42.1
54	63.5	56.4	84.6

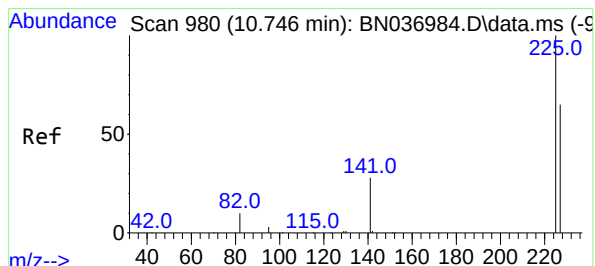
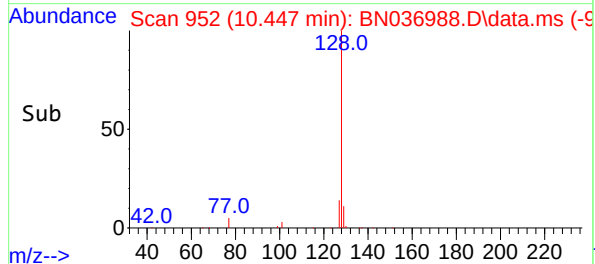
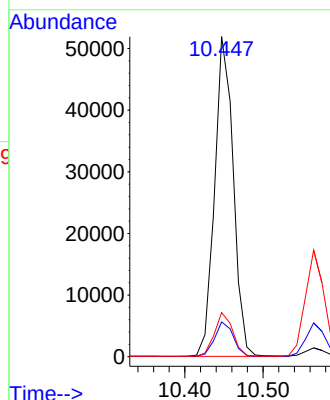
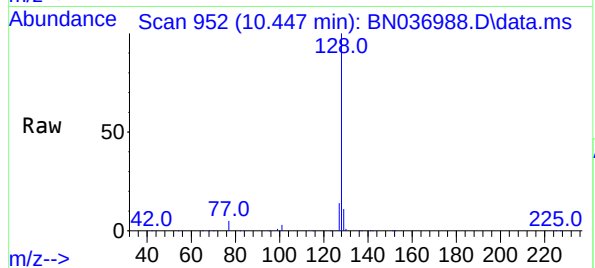




#9
Naphthalene
Concen: 5.06 ng
RT: 10.447 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036988.D
Acq: 12 May 2025 17:19

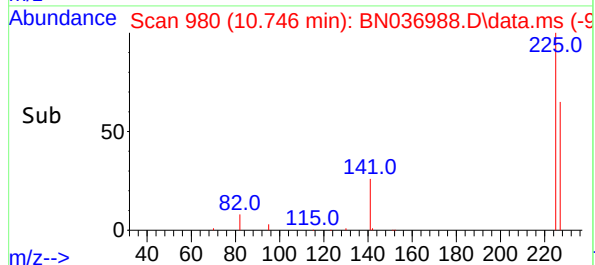
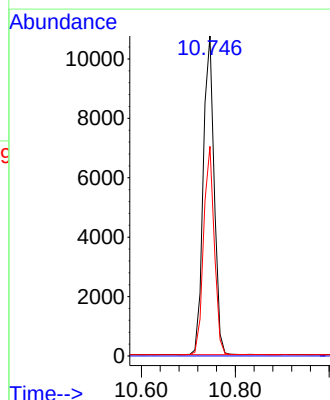
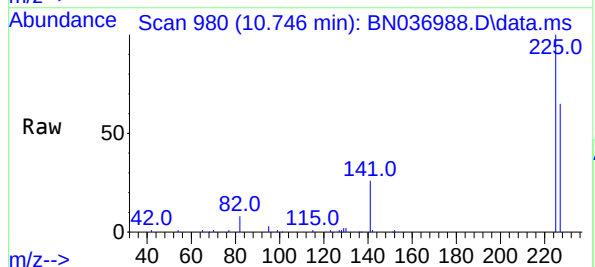
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

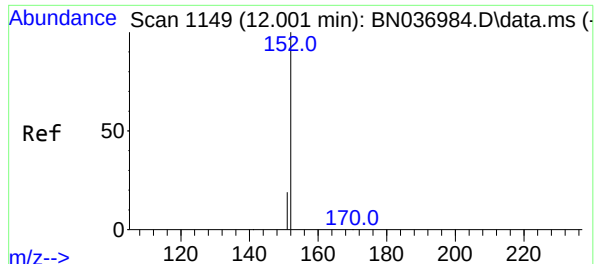
Tgt Ion:128 Resp: 85610
Ion Ratio Lower Upper
128 100
129 10.9 10.0 15.0
127 13.8 12.1 18.1



#10
Hexachlorobutadiene
Concen: 4.76 ng
RT: 10.746 min Scan# 980
Delta R.T. 0.000 min
Lab File: BN036988.D
Acq: 12 May 2025 17:19

Tgt Ion:225 Resp: 17281
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.9 51.2 76.8

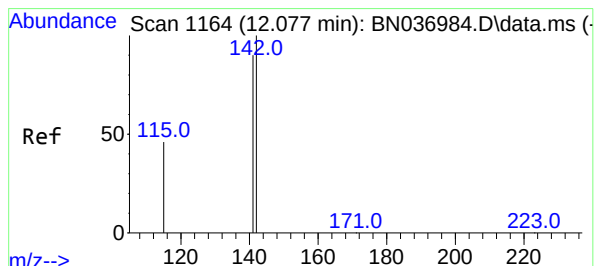
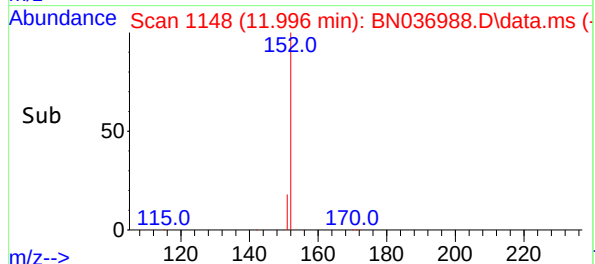
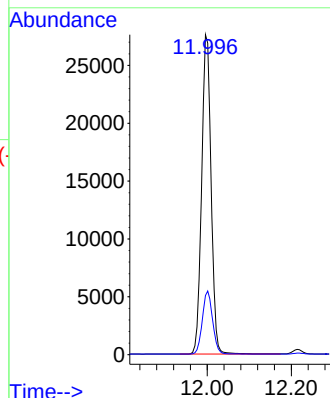
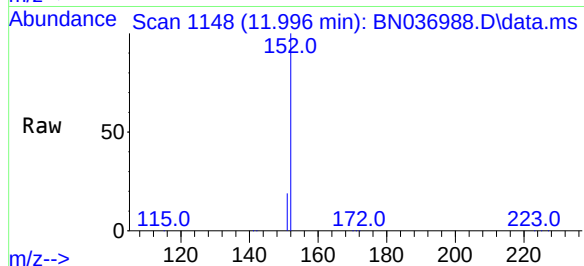




#11
2-Methylnaphthalene-d10
Concen: 5.27 ng
RT: 11.996 min Scan# 1148
Delta R.T. -0.005 min
Lab File: BN036988.D
Acq: 12 May 2025 17:19

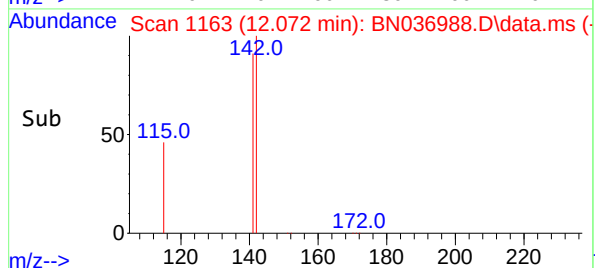
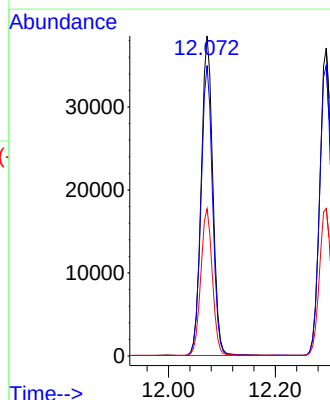
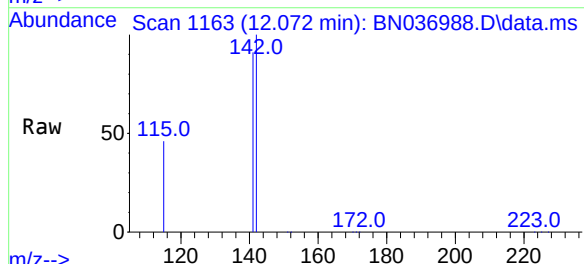
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

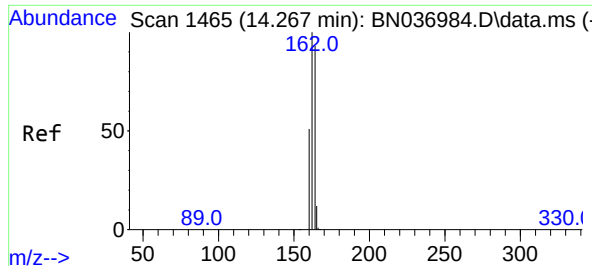
Tgt Ion:152 Resp: 43107
Ion Ratio Lower Upper
152 100
151 21.4 17.4 26.2



#12
2-Methylnaphthalene
Concen: 5.29 ng
RT: 12.072 min Scan# 1163
Delta R.T. -0.005 min
Lab File: BN036988.D
Acq: 12 May 2025 17:19

Tgt Ion:142 Resp: 58018
Ion Ratio Lower Upper
142 100
141 90.7 71.8 107.8
115 46.0 38.6 58.0





#13

Acenaphthene-d10

Concen: 0.40 ng

RT: 14.267 min Scan# 1465

Delta R.T. 0.000 min

Lab File: BN036988.D

Acq: 12 May 2025 17:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

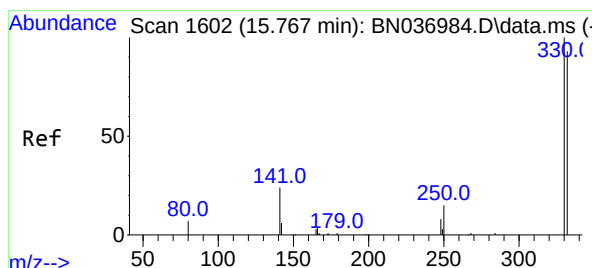
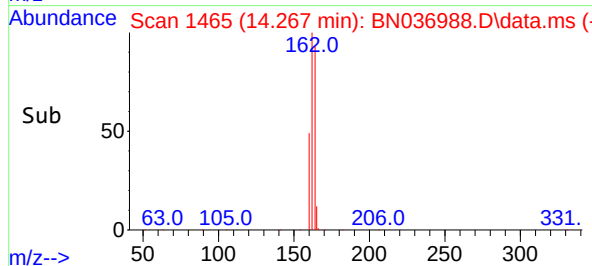
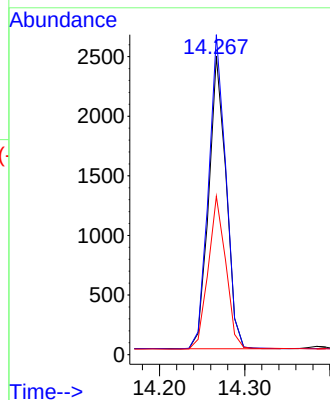
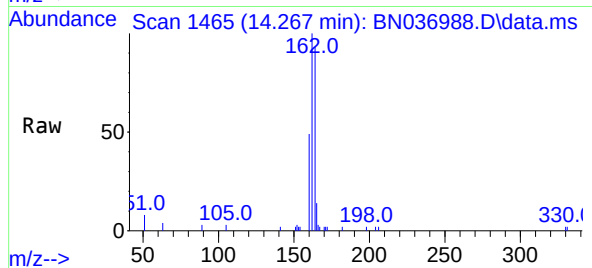
Tgt Ion:164 Resp: 3482

Ion Ratio Lower Upper

164 100

162 107.1 86.1 129.1

160 53.0 44.6 67.0



#14

2,4,6-Tribromophenol

Concen: 5.20 ng

RT: 15.767 min Scan# 1602

Delta R.T. 0.000 min

Lab File: BN036988.D

Acq: 12 May 2025 17:19

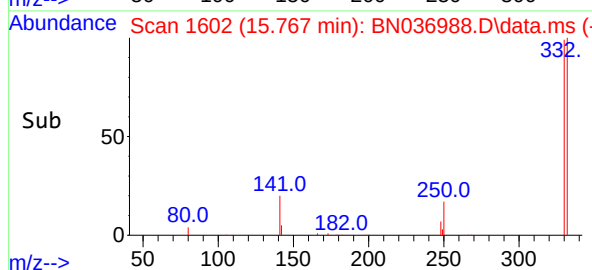
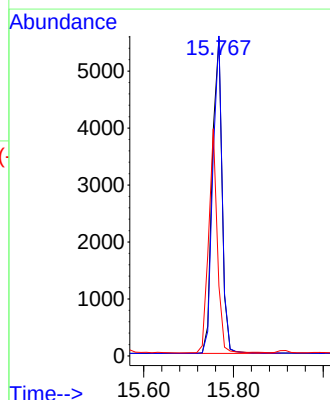
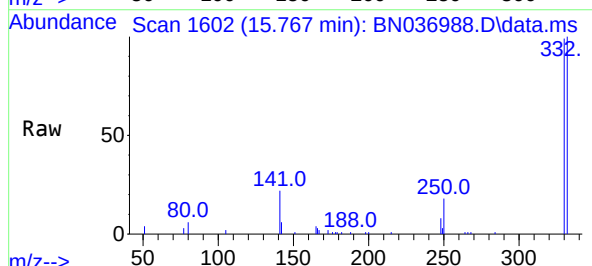
Tgt Ion:330 Resp: 8304

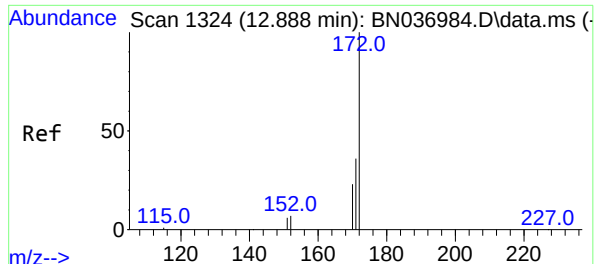
Ion Ratio Lower Upper

330 100

332 96.2 75.6 113.4

141 64.1 47.4 71.2

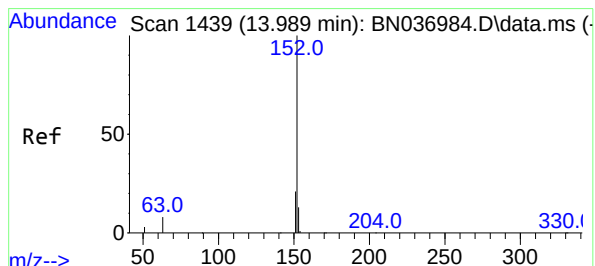
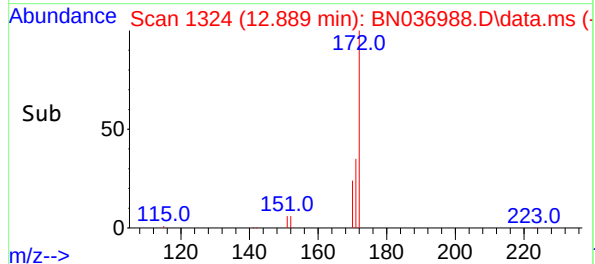
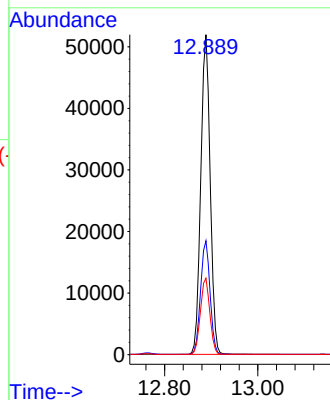
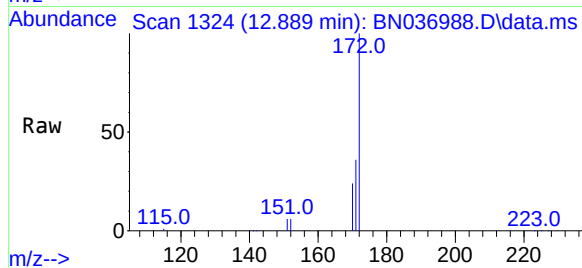




#15
2-Fluorobiphenyl
Concen: 5.00 ng
RT: 12.889 min Scan# 1324
Delta R.T. 0.000 min
Lab File: BN036988.D
Acq: 12 May 2025 17:19

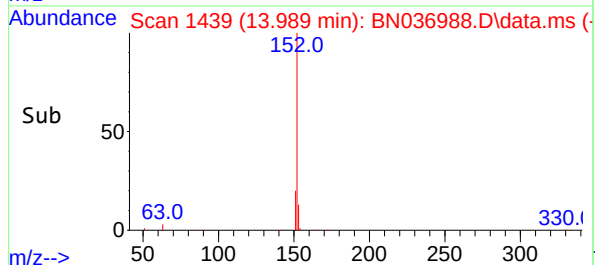
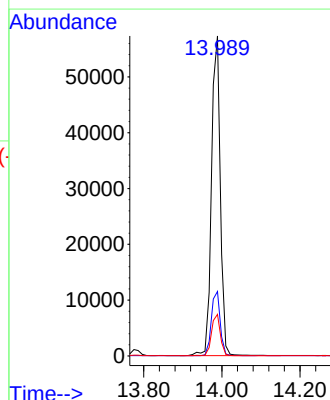
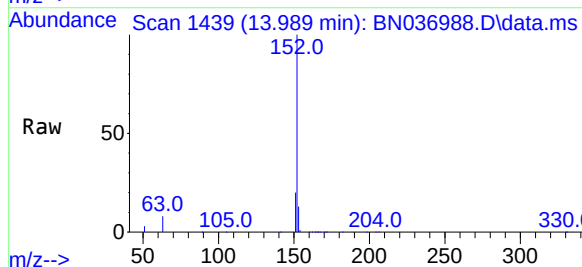
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

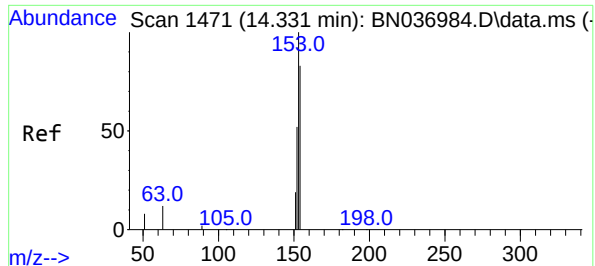
Tgt Ion:172 Resp: 81308
Ion Ratio Lower Upper
172 100
171 35.6 29.4 44.2
170 23.9 19.4 29.0



#16
Acenaphthylene
Concen: 5.29 ng
RT: 13.989 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN036988.D
Acq: 12 May 2025 17:19

Tgt Ion:152 Resp: 89963
Ion Ratio Lower Upper
152 100
151 20.1 16.2 24.4
153 12.9 10.9 16.3





#17

Acenaphthene

Concen: 5.08 ng

RT: 14.331 min Scan# 1471

Delta R.T. 0.000 min

Lab File: BN036988.D

Acq: 12 May 2025 17:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

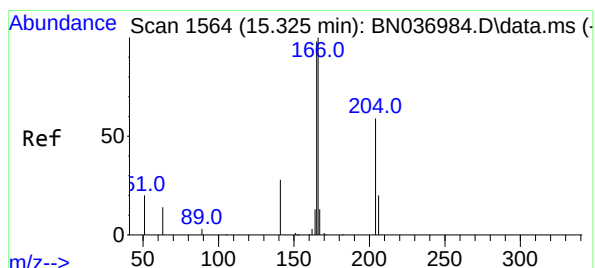
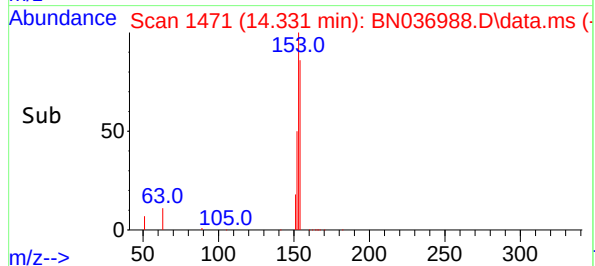
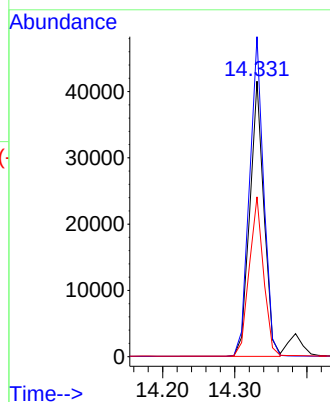
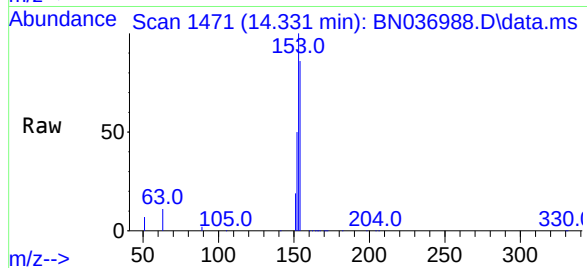
Tgt Ion:154 Resp: 56812

Ion Ratio Lower Upper

154 100

153 116.4 94.6 142.0

152 58.9 49.4 74.2



#18

Fluorene

Concen: 5.15 ng

RT: 15.325 min Scan# 1564

Delta R.T. 0.000 min

Lab File: BN036988.D

Acq: 12 May 2025 17:19

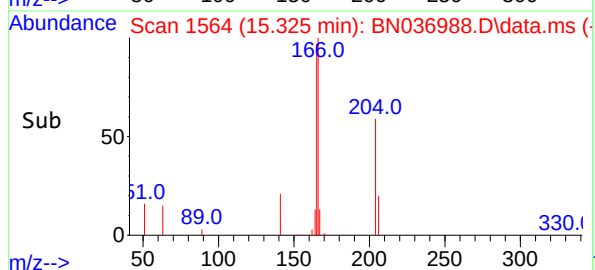
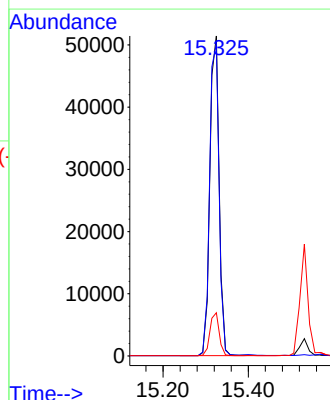
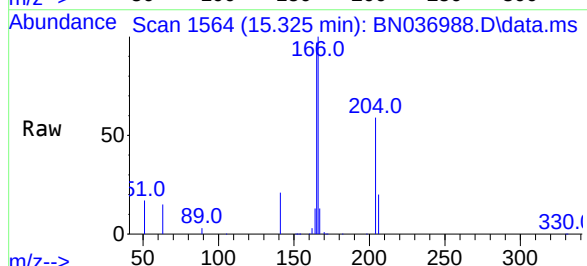
Tgt Ion:166 Resp: 77200

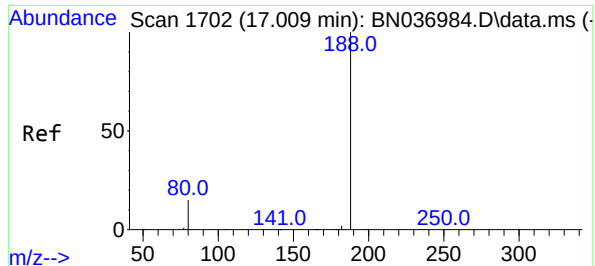
Ion Ratio Lower Upper

166 100

165 99.6 81.0 121.4

167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.40 ng

RT: 17.009 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN036988.D

Acq: 12 May 2025 17:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

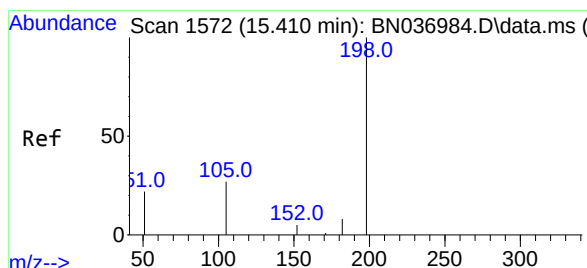
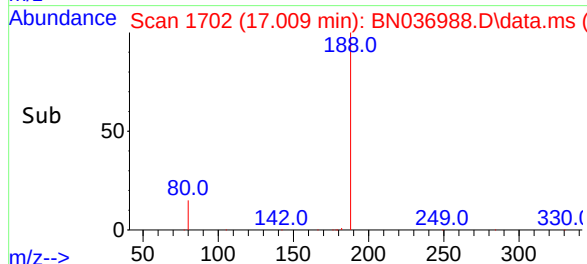
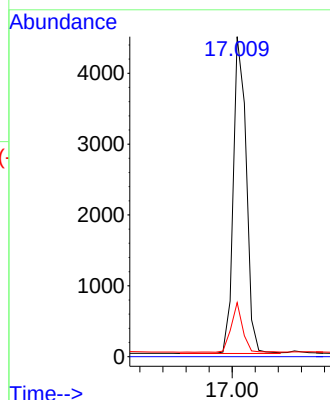
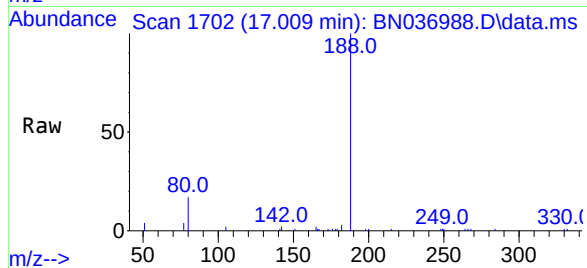
Tgt Ion:188 Resp: 6959

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.9 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 6.41 ng

RT: 15.400 min Scan# 1571

Delta R.T. -0.011 min

Lab File: BN036988.D

Acq: 12 May 2025 17:19

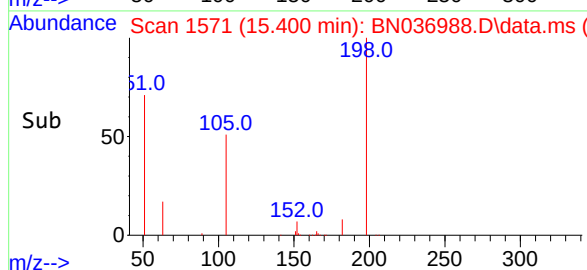
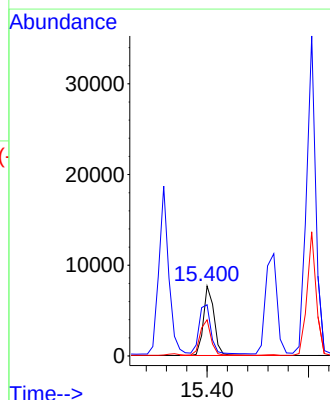
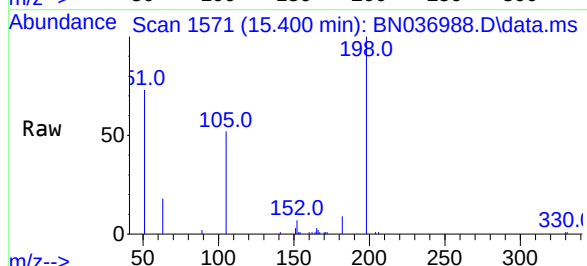
Tgt Ion:198 Resp: 11403

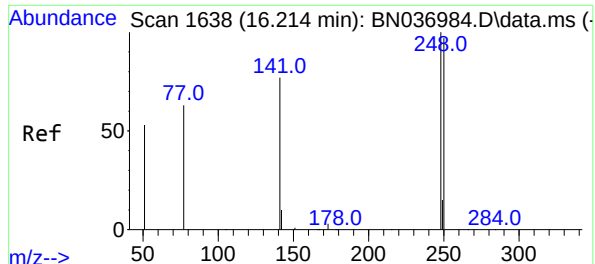
Ion Ratio Lower Upper

198 100

51 73.3 79.7 119.5#

105 51.8 36.0 54.0





#21

4-Bromophenyl-phenylether

Concen: 5.17 ng

RT: 16.214 min Scan# 1638

Delta R.T. 0.000 min

Lab File: BN036988.D

Acq: 12 May 2025 17:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

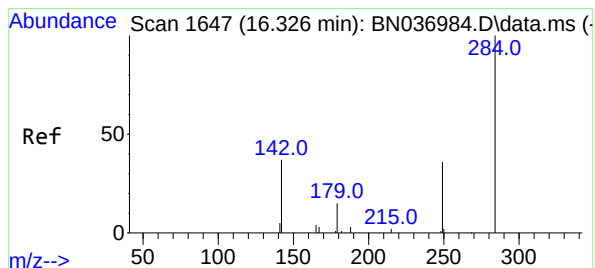
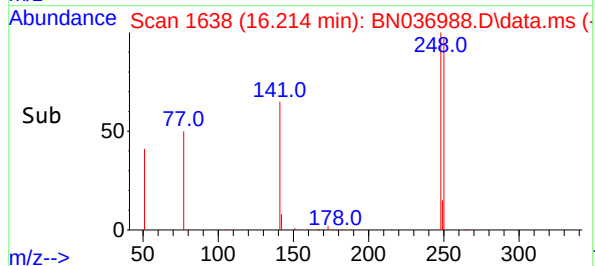
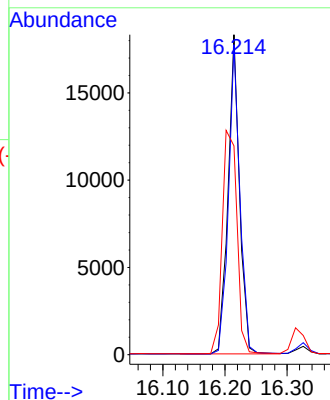
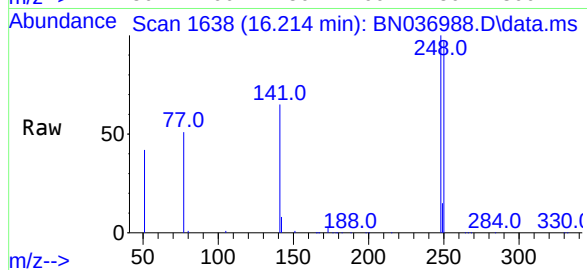
Tgt Ion:248 Resp: 23346

Ion Ratio Lower Upper

248 100

250 96.9 77.8 116.8

141 65.2 63.1 94.7



#22

Hexachlorobenzene

Concen: 4.92 ng

RT: 16.326 min Scan# 1647

Delta R.T. 0.000 min

Lab File: BN036988.D

Acq: 12 May 2025 17:19

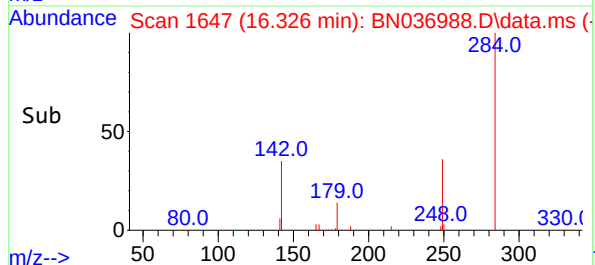
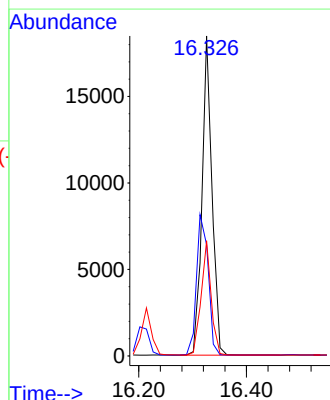
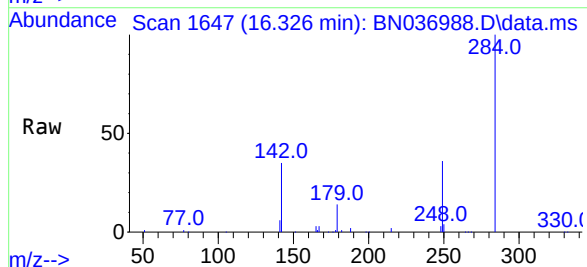
Tgt Ion:284 Resp: 23781

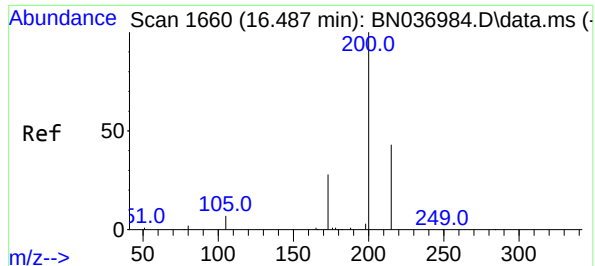
Ion Ratio Lower Upper

284 100

142 51.4 41.4 62.2

249 36.0 29.1 43.7

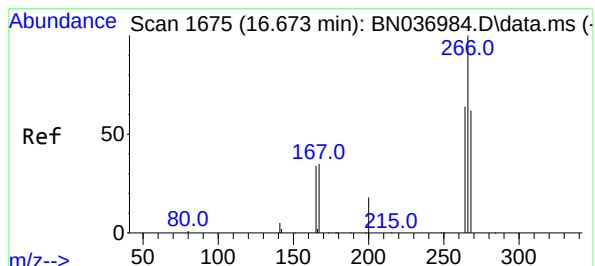
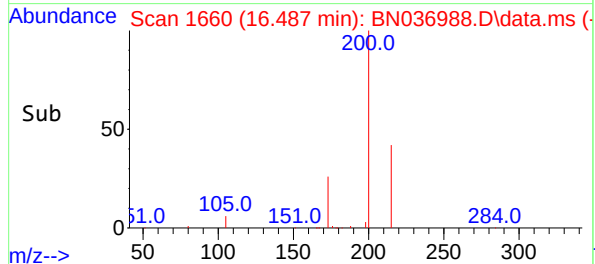
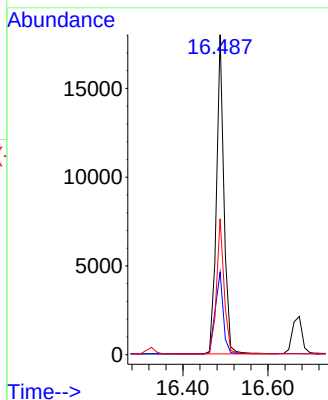
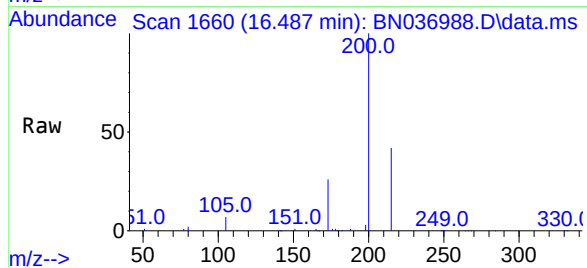




#23
Atrazine
Concen: 5.52 ng
RT: 16.487 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN036988.D
Acq: 12 May 2025 17:19

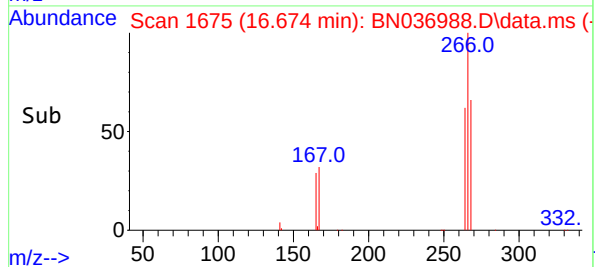
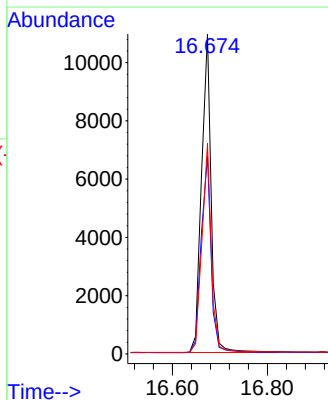
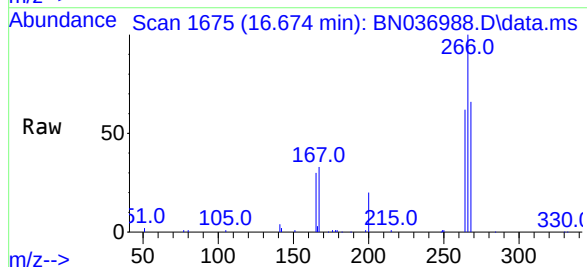
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

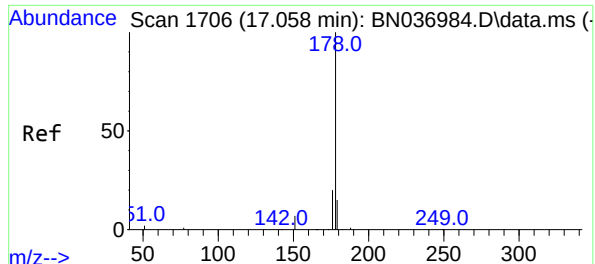
Tgt Ion	Ratio	Lower	Upper
200	100		
173	25.8	25.8	38.6
215	42.4	37.4	56.0



#24
Pentachlorophenol
Concen: 5.81 ng
RT: 16.674 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN036988.D
Acq: 12 May 2025 17:19

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.3	52.8	79.2
268	64.0	50.0	75.0

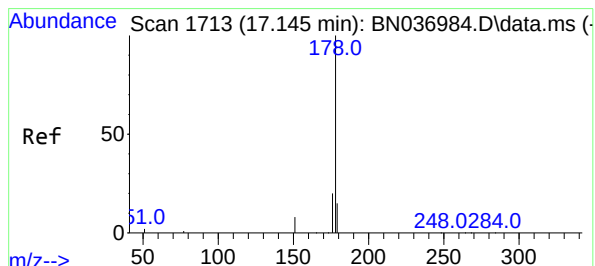
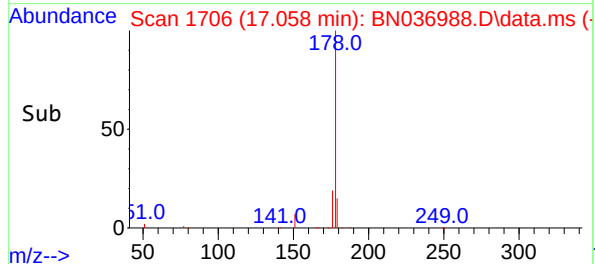
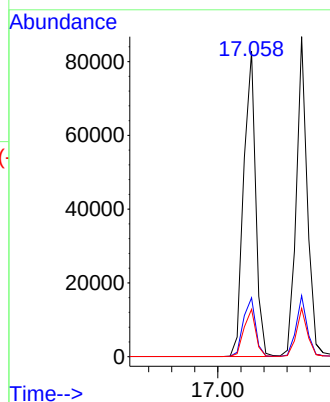
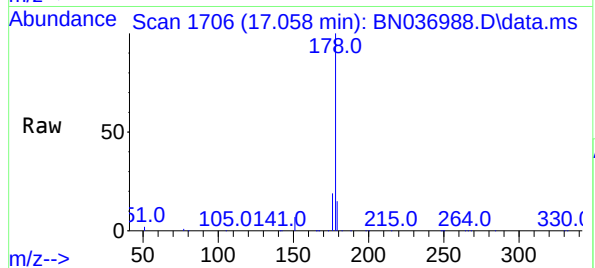




#25
Phenanthrene
Concen: 5.20 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN036988.D
Acq: 12 May 2025 17:19

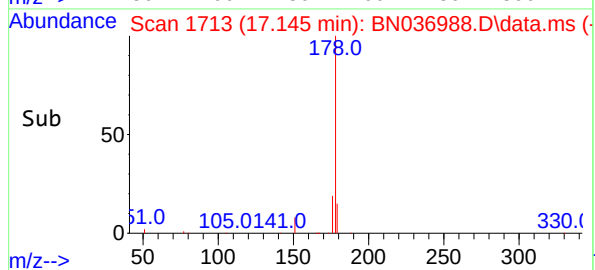
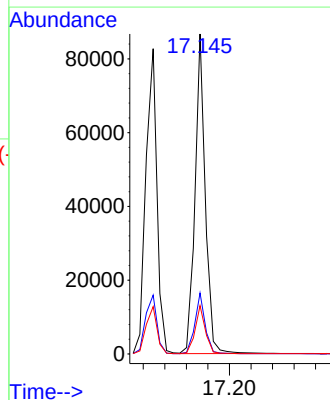
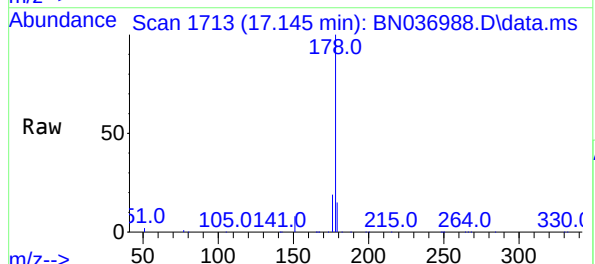
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

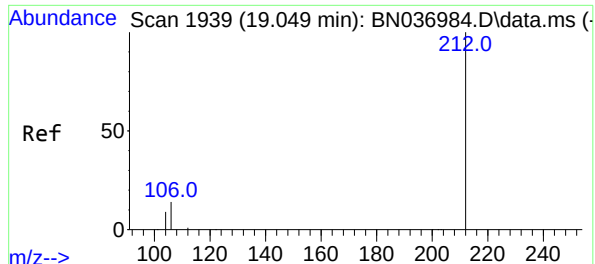
Tgt Ion:178 Resp: 118851
Ion Ratio Lower Upper
178 100
176 19.6 16.0 24.0
179 15.3 12.3 18.5



#26
Anthracene
Concen: 5.51 ng
RT: 17.145 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN036988.D
Acq: 12 May 2025 17:19

Tgt Ion:178 Resp: 115094
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.1 12.2 18.2

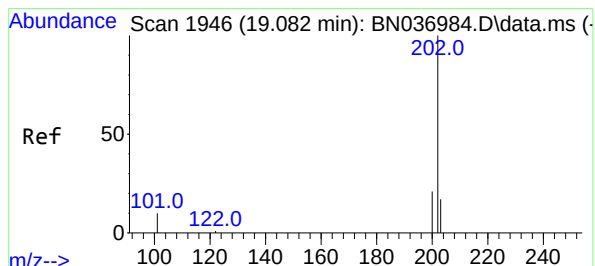
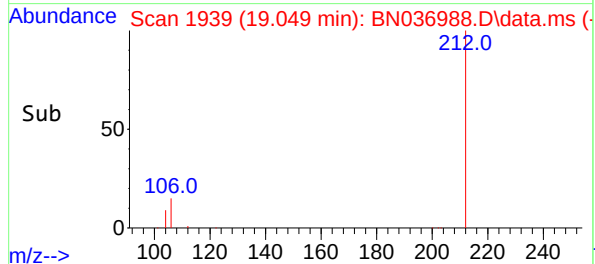
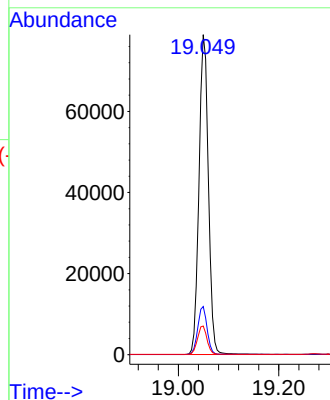
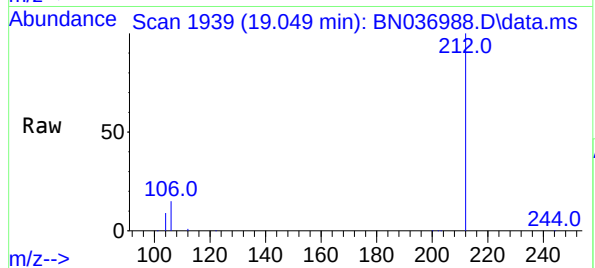




#27
Fluoranthene-d10
Concen: 5.40 ng
RT: 19.049 min Scan# 1939
Delta R.T. 0.000 min
Lab File: BN036988.D
Acq: 12 May 2025 17:19

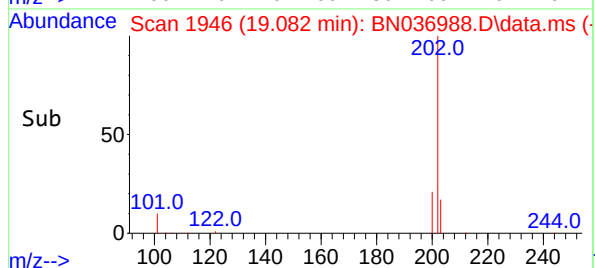
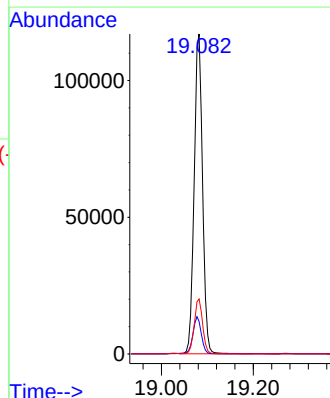
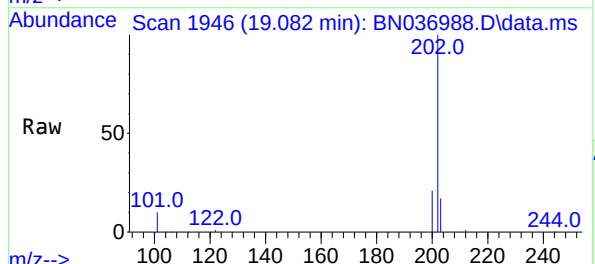
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

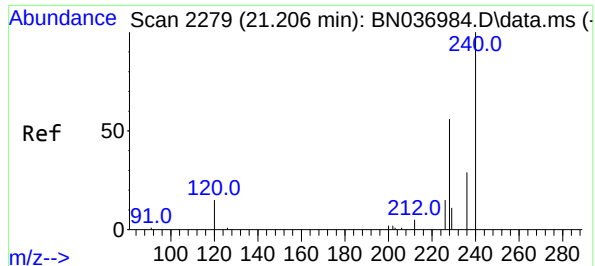
Tgt Ion:212 Resp: 102164
Ion Ratio Lower Upper
212 100
106 14.9 11.3 16.9
104 9.0 7.0 10.4



#28
Fluoranthene
Concen: 5.48 ng
RT: 19.082 min Scan# 1946
Delta R.T. 0.000 min
Lab File: BN036988.D
Acq: 12 May 2025 17:19

Tgt Ion:202 Resp: 147451
Ion Ratio Lower Upper
202 100
101 11.7 8.6 12.8
203 17.2 13.5 20.3





#29

Chrysene-d12

Concen: 0.40 ng

RT: 21.207 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036988.D

Acq: 12 May 2025 17:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

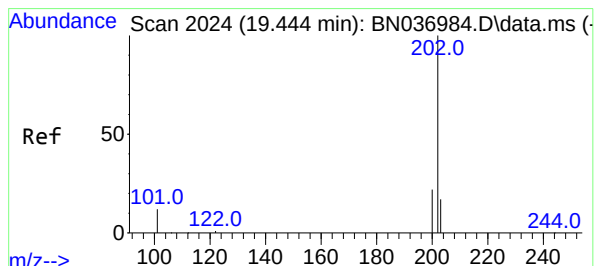
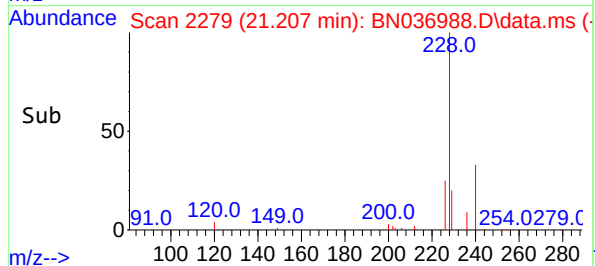
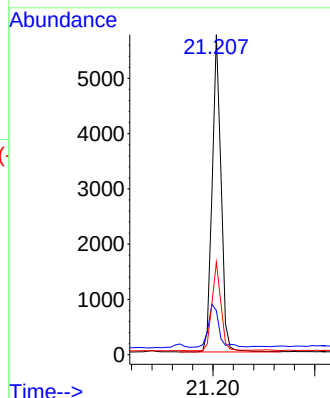
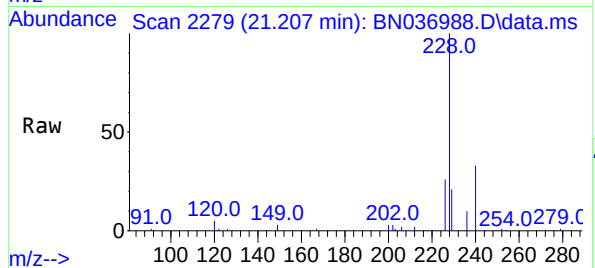
Tgt Ion:240 Resp: 6980

Ion Ratio Lower Upper

240 100

120 13.8 14.5 21.7#

236 28.9 24.3 36.5



#30

Pyrene

Concen: 4.74 ng

RT: 19.444 min Scan# 2024

Delta R.T. 0.000 min

Lab File: BN036988.D

Acq: 12 May 2025 17:19

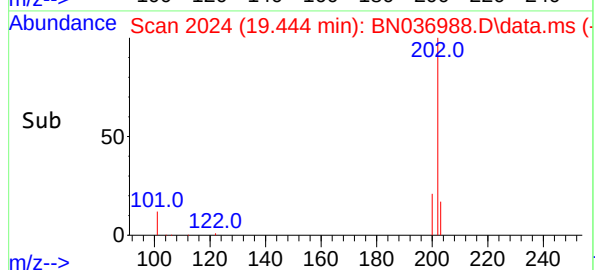
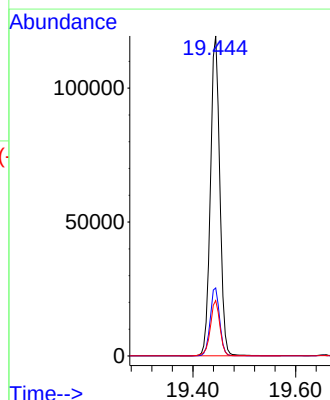
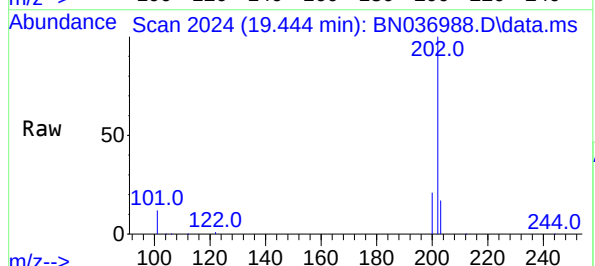
Tgt Ion:202 Resp: 150012

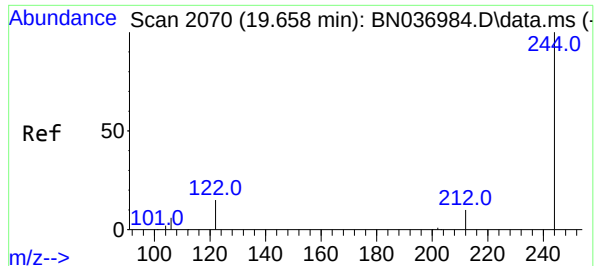
Ion Ratio Lower Upper

202 100

200 21.5 17.3 25.9

203 17.7 14.4 21.6





#31

Terphenyl-d14

Concen: 4.72 ng

RT: 19.653 min Scan# 2069

Delta R.T. -0.005 min

Lab File: BN036988.D

Acq: 12 May 2025 17:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

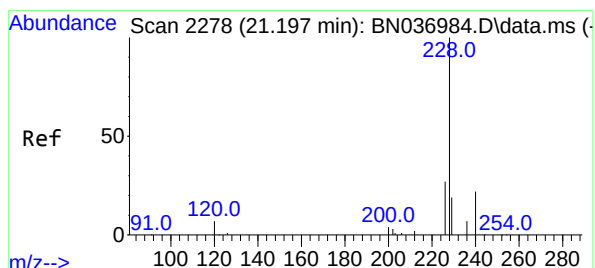
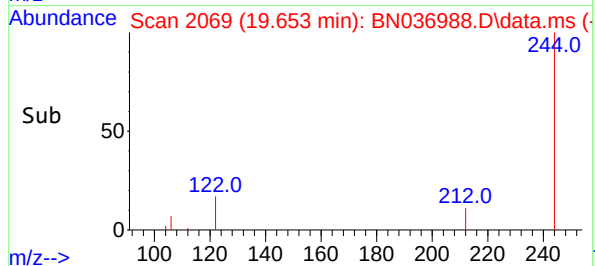
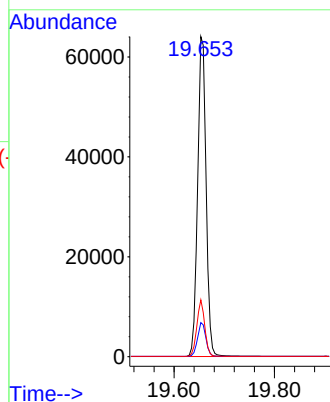
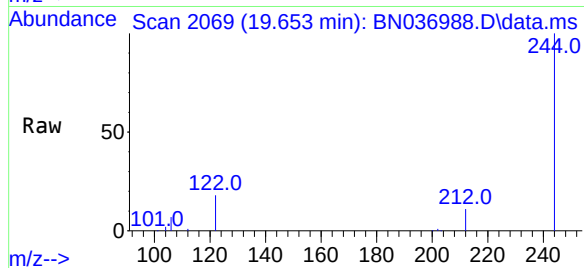
Tgt Ion:244 Resp: 74610

Ion Ratio Lower Upper

244 100

212 10.6 9.5 14.3

122 17.7 13.4 20.0



#32

Benzo(a)anthracene

Concen: 5.17 ng

RT: 21.189 min Scan# 2277

Delta R.T. -0.009 min

Lab File: BN036988.D

Acq: 12 May 2025 17:19

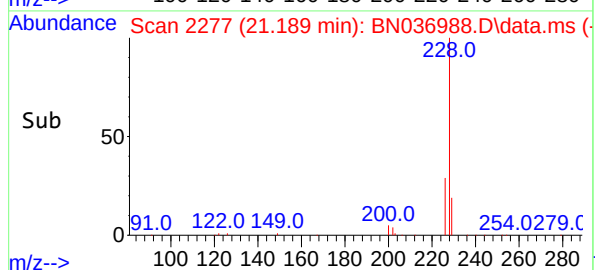
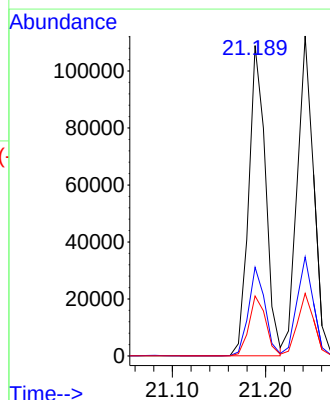
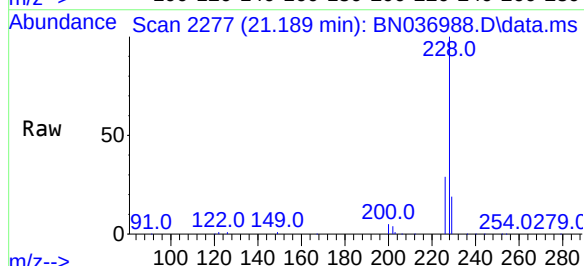
Tgt Ion:228 Resp: 136571

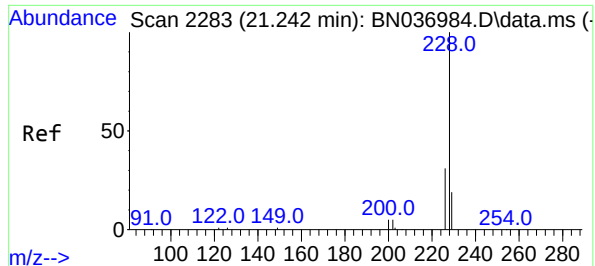
Ion Ratio Lower Upper

228 100

226 28.6 22.4 33.6

229 19.3 16.0 24.0





#33

Chrysene

Concen: 4.99 ng

RT: 21.242 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036988.D

Acq: 12 May 2025 17:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

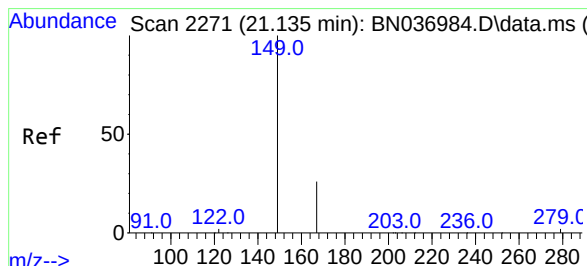
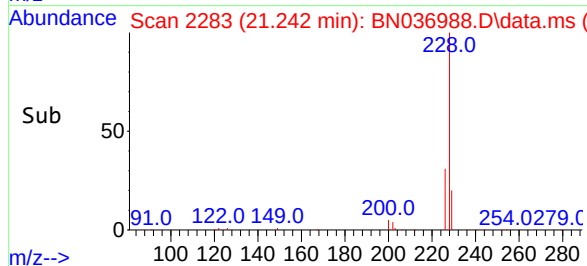
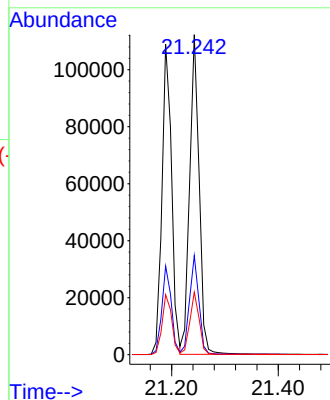
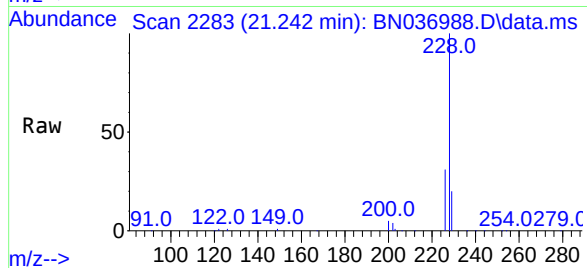
Tgt Ion:228 Resp: 139020

Ion Ratio Lower Upper

228 100

226 31.0 25.7 38.5

229 19.5 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 5.37 ng

RT: 21.135 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BN036988.D

Acq: 12 May 2025 17:19

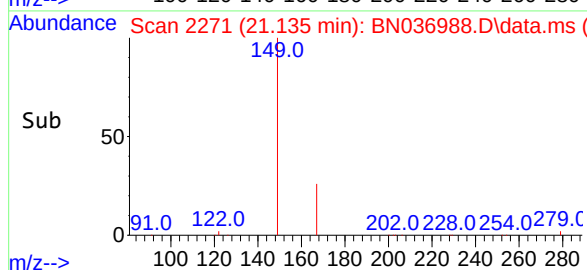
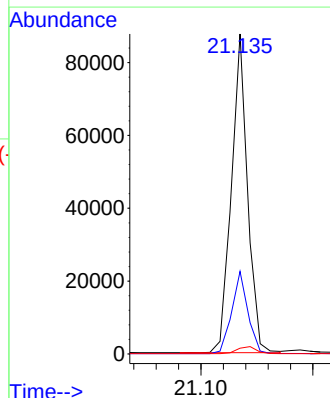
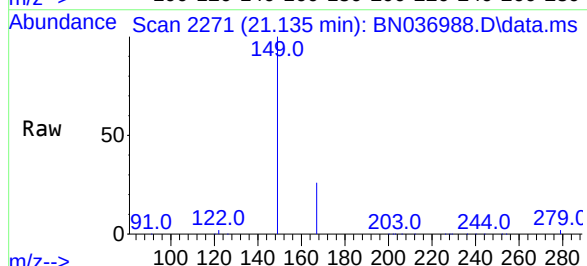
Tgt Ion:149 Resp: 87281

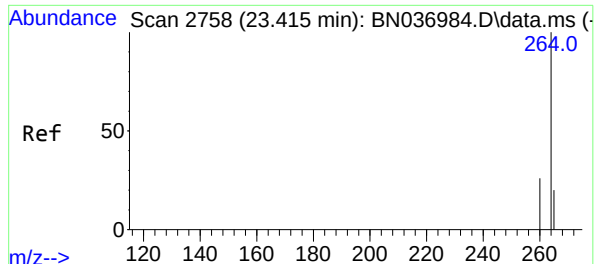
Ion Ratio Lower Upper

149 100

167 25.9 21.0 31.6

279 2.6 2.7 4.1#

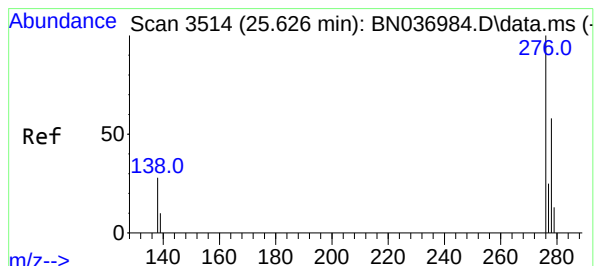
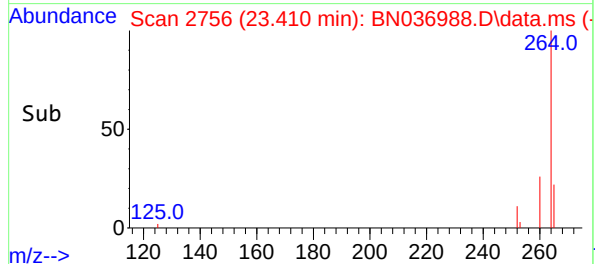
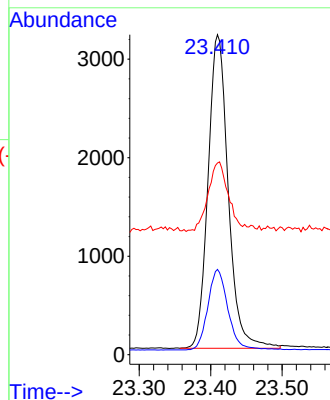
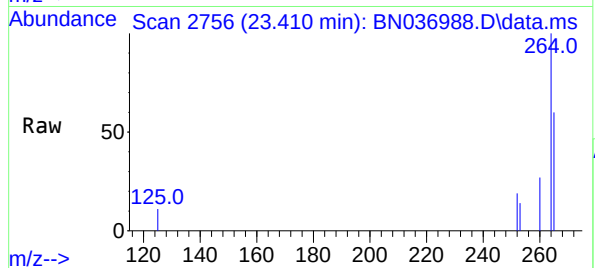




#35
Perylene-d12
Concen: 0.40 ng
RT: 23.410 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN036988.D
Acq: 12 May 2025 17:19

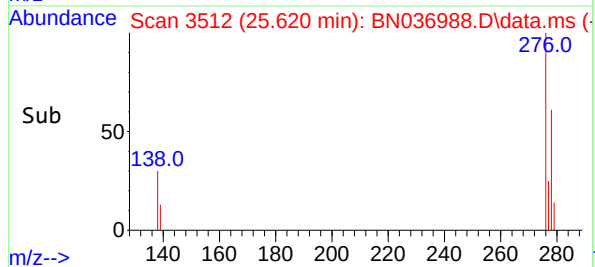
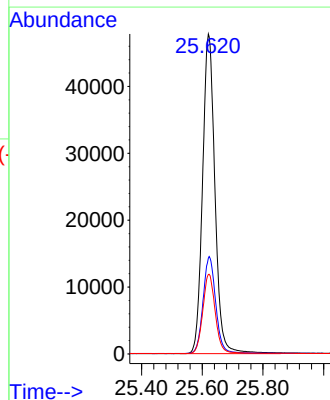
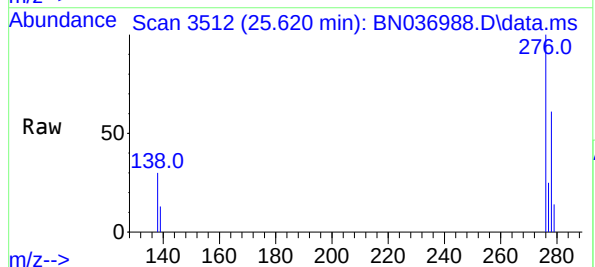
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

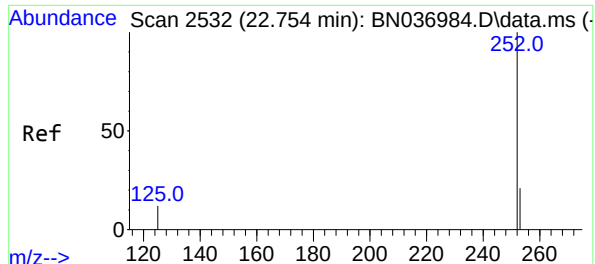
Tgt Ion:264 Resp: 6250
Ion Ratio Lower Upper
264 100
260 26.7 22.3 33.5
265 59.9 55.4 83.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 5.50 ng
RT: 25.620 min Scan# 3512
Delta R.T. -0.006 min
Lab File: BN036988.D
Acq: 12 May 2025 17:19

Tgt Ion:276 Resp: 135754
Ion Ratio Lower Upper
276 100
138 31.2 21.8 32.8
277 25.0 20.2 30.4





#37

Benzo(b)fluoranthene

Concen: 5.22 ng

RT: 22.752 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN036988.D

Acq: 12 May 2025 17:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

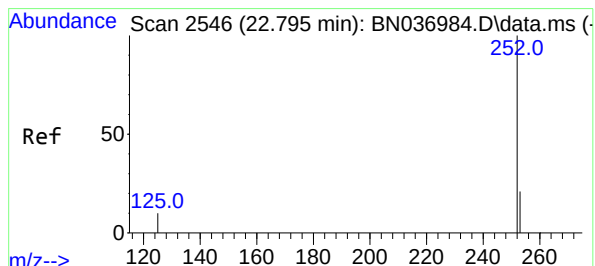
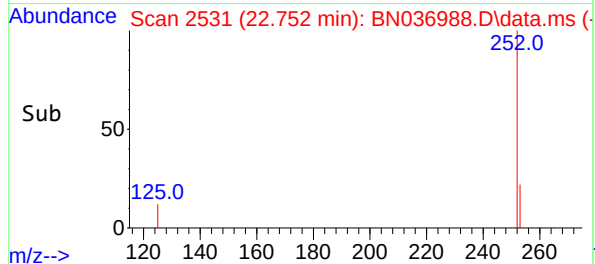
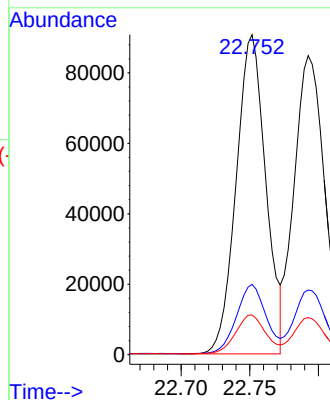
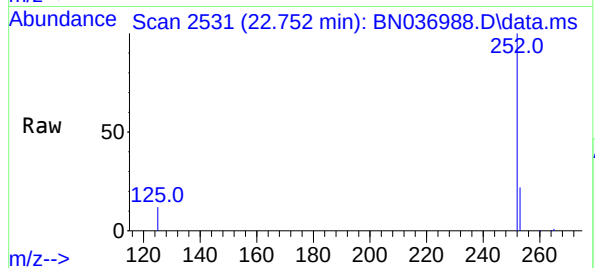
Tgt Ion:252 Resp: 135962

Ion Ratio Lower Upper

252 100

253 21.9 21.9 32.9

125 12.4 13.8 20.8#



#38

Benzo(k)fluoranthene

Concen: 5.20 ng

RT: 22.793 min Scan# 2545

Delta R.T. -0.003 min

Lab File: BN036988.D

Acq: 12 May 2025 17:19

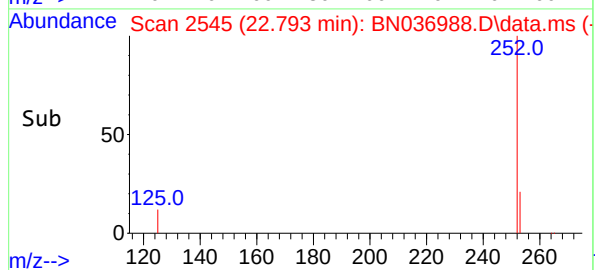
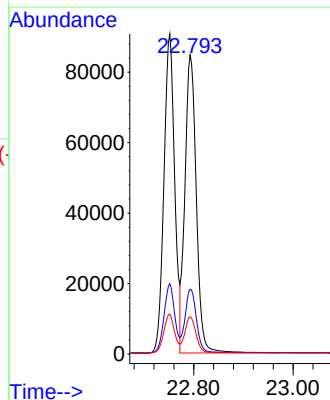
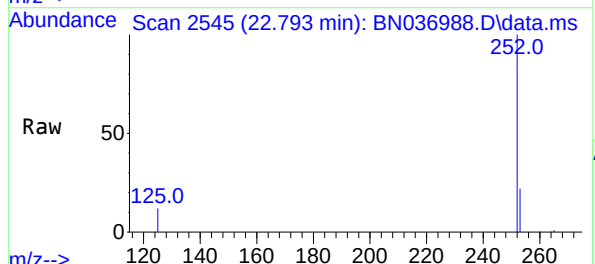
Tgt Ion:252 Resp: 134619

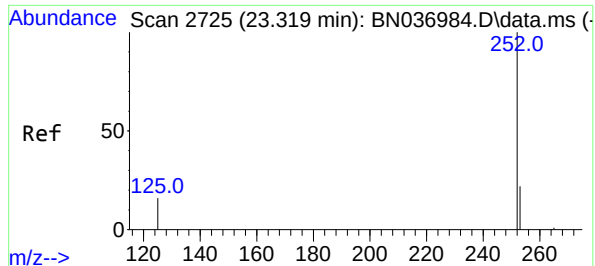
Ion Ratio Lower Upper

252 100

253 21.6 22.0 33.0#

125 12.4 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 5.34 ng

RT: 23.313 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036988.D

Acq: 12 May 2025 17:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

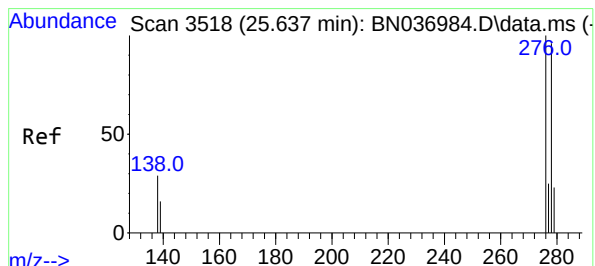
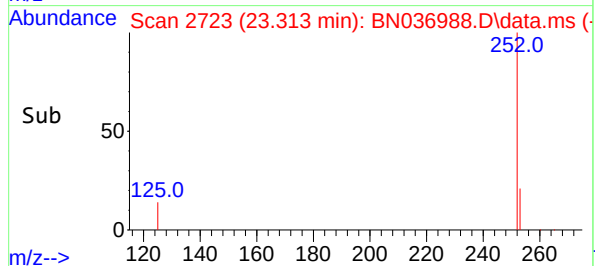
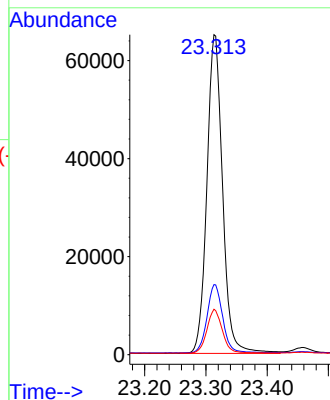
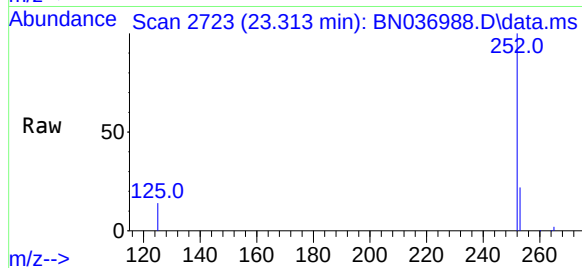
Tgt Ion:252 Resp: 115617

Ion Ratio Lower Upper

252 100

253 21.9 24.8 37.2#

125 14.2 18.6 28.0#



#40

Dibenzo(a,h)anthracene

Concen: 5.55 ng

RT: 25.634 min Scan# 3517

Delta R.T. -0.003 min

Lab File: BN036988.D

Acq: 12 May 2025 17:19

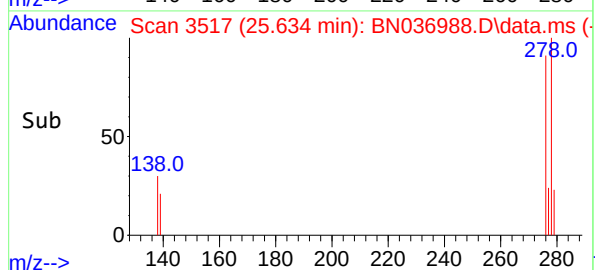
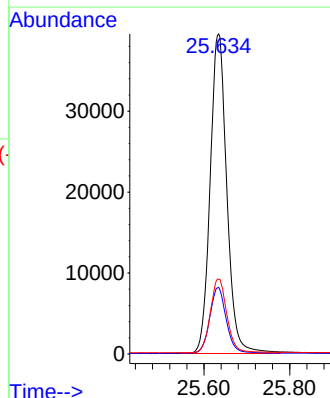
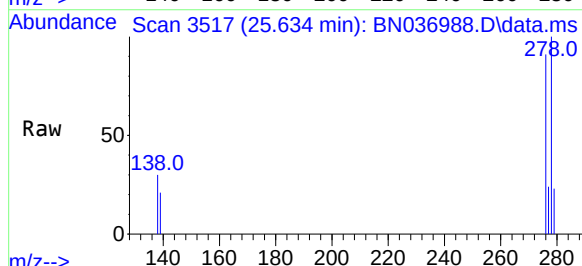
Tgt Ion:278 Resp: 106822

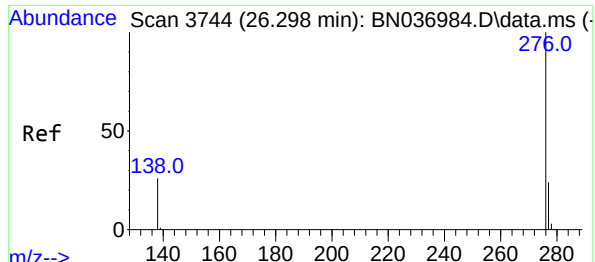
Ion Ratio Lower Upper

278 100

139 20.8 18.1 27.1

279 23.4 25.3 37.9#





#41

Benzo(g,h,i)perylene

Concen: 5.25 ng

RT: 26.295 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN036988.D

Acq: 12 May 2025 17:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

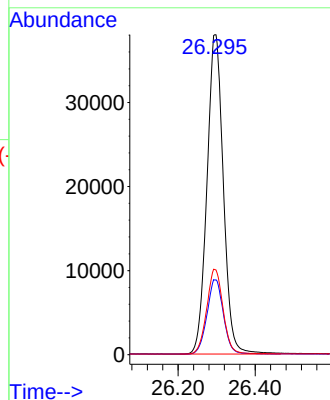
Tgt Ion:276 Resp: 111955

Ion Ratio Lower Upper

276 100

277 23.3 21.2 31.8

138 26.6 22.6 33.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051225\
 Data File : BN036989.D
 Acq On : 12 May 2025 17:55
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN051225

Quant Time: May 12 18:21:01 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 12 18:05:36 2025
 Response via : Initial Calibration

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

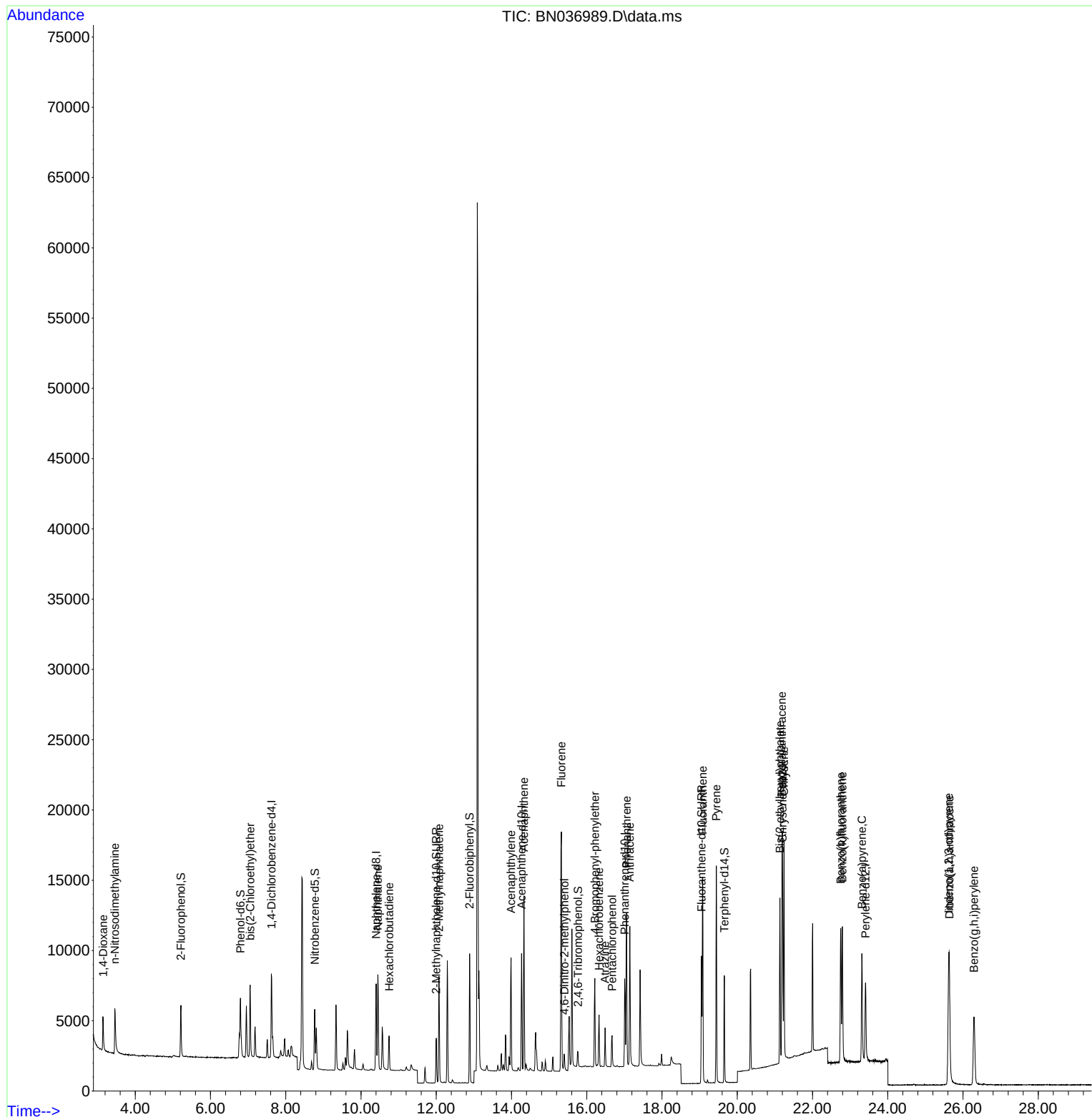
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.618	152	2868	0.40	ng	0.00
7) Naphthalene-d8	10.404	136	7598	0.40	ng	0.00
13) Acenaphthene-d10	14.267	164	4289	0.40	ng	0.00
19) Phenanthrene-d10	17.009	188	8773	0.40	ng	0.00
29) Chrysene-d12	21.206	240	7998	0.40	ng	# 0.00
35) Perylene-d12	23.409	264	7407	0.40	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	2612	0.35	ng	0.00
5) Phenol-d6	6.795	99	3280	0.37	ng	0.00
8) Nitrobenzene-d5	8.771	82	3257	0.41	ng	0.00
11) 2-Methylnaphthalene-d10	12.001	152	4369	0.41	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	635	0.32	ng	0.00
15) 2-Fluorobiphenyl	12.888	172	7553	0.38	ng	0.00
27) Fluoranthene-d10	19.049	212	9501	0.40	ng	0.00
31) Terphenyl-d14	19.658	244	7109	0.39	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.148	88	1490	0.41	ng	94
3) n-Nitrosodimethylamine	3.458	42	2885	0.38	ng	# 91
6) bis(2-Chloroethyl)ether	7.055	93	3618	0.44	ng	99
9) Naphthalene	10.447	128	8757	0.40	ng	99
10) Hexachlorobutadiene	10.746	225	1870	0.39	ng	# 98
12) 2-Methylnaphthalene	12.072	142	5190	0.36	ng	99
16) Acenaphthylene	13.989	152	8800	0.42	ng	99
17) Acenaphthene	14.331	154	5323	0.39	ng	99
18) Fluorene	15.325	166	7134	0.39	ng	99
20) 4,6-Dinitro-2-methylph...	15.410	198	794	0.35	ng	# 82
21) 4-Bromophenyl-phenylether	16.214	248	2169	0.38	ng	96
22) Hexachlorobenzene	16.326	284	2332	0.38	ng	98
23) Atrazine	16.487	200	2028	0.40	ng	95
24) Pentachlorophenol	16.673	266	1155	0.34	ng	96
25) Phenanthrene	17.058	178	11462	0.40	ng	99
26) Anthracene	17.145	178	10393	0.39	ng	99
28) Fluoranthene	19.082	202	13067	0.39	ng	99
30) Pyrene	19.444	202	13193	0.36	ng	100
32) Benzo(a)anthracene	21.189	228	11952	0.39	ng	98
33) Chrysene	21.242	228	12508	0.39	ng	99
34) Bis(2-ethylhexyl)phtha...	21.135	149	6961	0.37	ng	100
36) Indeno(1,2,3-cd)pyrene	25.620	276	12234	0.42	ng	98
37) Benzo(b)fluoranthene	22.749	252	11911	0.39	ng	96
38) Benzo(k)fluoranthene	22.793	252	12254	0.40	ng	96
39) Benzo(a)pyrene	23.313	252	10834	0.42	ng	92
40) Dibenzo(a,h)anthracene	25.637	278	9338	0.41	ng	94
41) Benzo(g,h,i)perylene	26.292	276	9926	0.39	ng	98

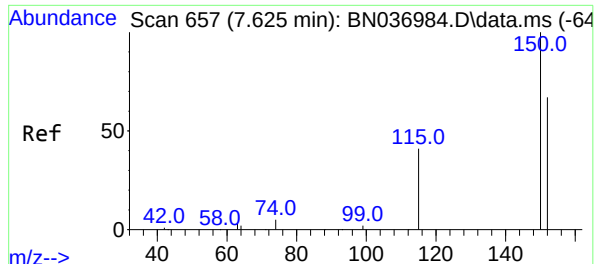
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051225\
Data File : BN036989.D
Acq On : 12 May 2025 17:55
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN051225

Quant Time: May 12 18:21:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 12 18:05:36 2025
Response via : Initial Calibration

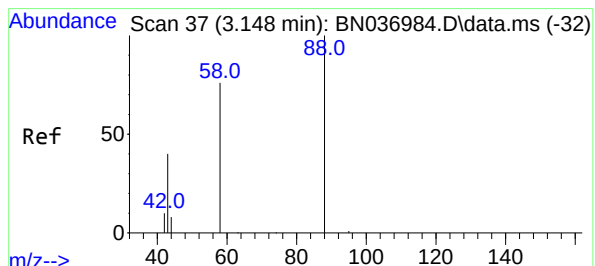
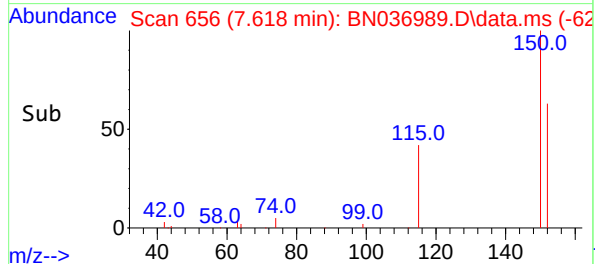
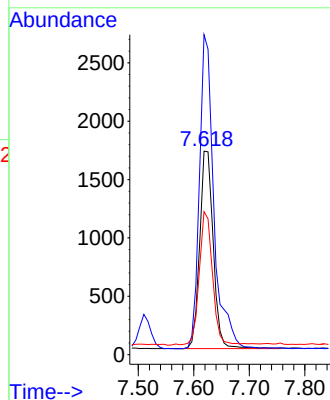
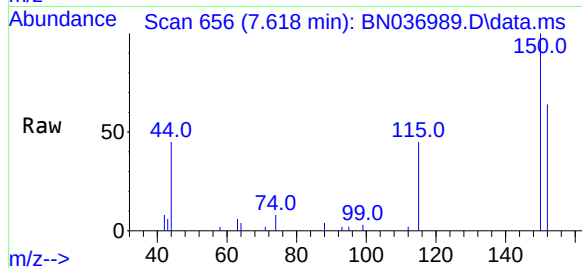




#1
1,4-Dichlorobenzene-d4
Concen: 0.40 ng
RT: 7.618 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN036989.D
Acq: 12 May 2025 17:55

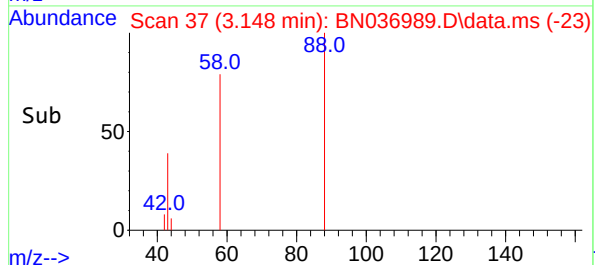
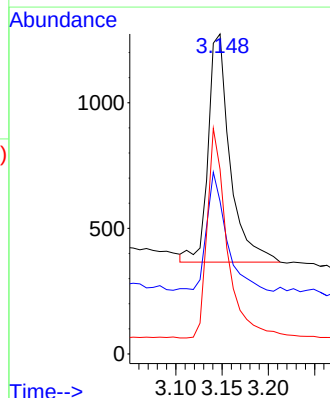
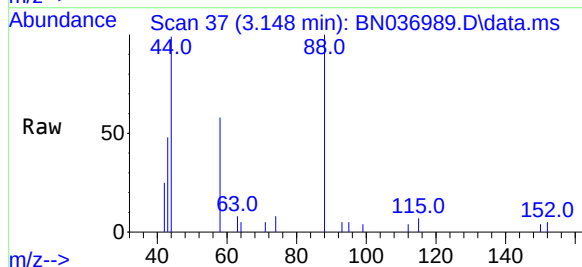
Instrument :
BNA_N
ClientSampleId :
ICVBN051225

Tgt Ion:152 Resp: 2868
Ion Ratio Lower Upper
152 100
150 157.3 118.2 177.4
115 70.3 52.5 78.7

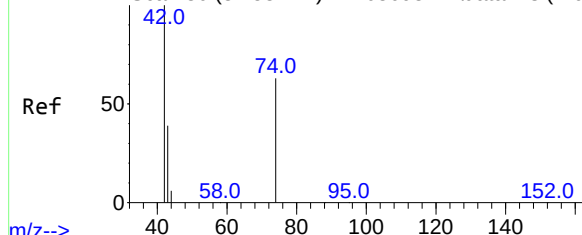


#2
1,4-Dioxane
Concen: 0.41 ng
RT: 3.148 min Scan# 37
Delta R.T. 0.000 min
Lab File: BN036989.D
Acq: 12 May 2025 17:55

Tgt Ion: 88 Resp: 1490
Ion Ratio Lower Upper
88 100
43 47.9 43.3 64.9
58 83.9 70.7 106.1



Abundance Scan 80 (3.458 min): BN036984.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 0.38 ng

RT: 3.458 min Scan# 80

Delta R.T. 0.000 min

Lab File: BN036989.D

Acq: 12 May 2025 17:55

Instrument :

BNA_N

ClientSampleId :

ICVBN051225

Tgt Ion: 42 Resp: 2885

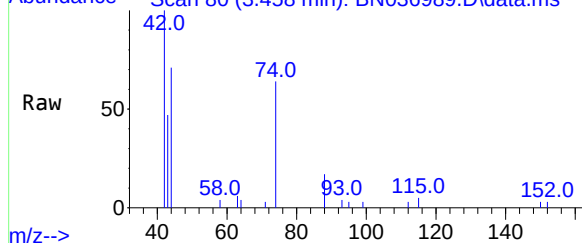
Ion Ratio Lower Upper

42 100

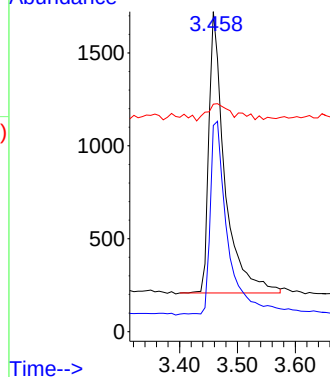
74 76.4 55.2 82.8

44 7.9 4.7 7.1#

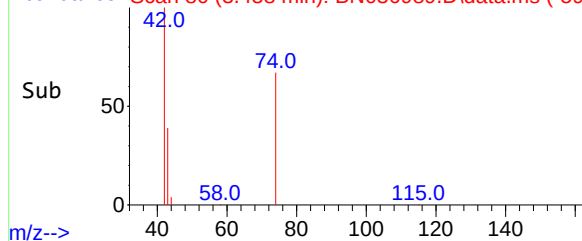
Abundance Scan 80 (3.458 min): BN036989.D\data.ms



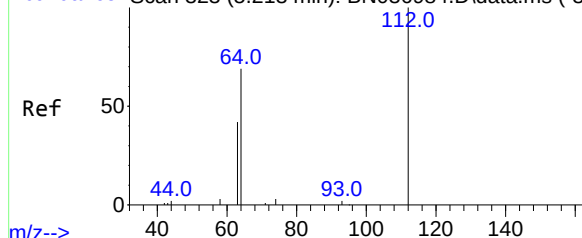
Abundance



Abundance Scan 80 (3.458 min): BN036989.D\data.ms (-59)



Abundance Scan 323 (5.213 min): BN036984.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.35 ng

RT: 5.213 min Scan# 323

Delta R.T. 0.000 min

Lab File: BN036989.D

Acq: 12 May 2025 17:55

Tgt Ion: 112 Resp: 2612

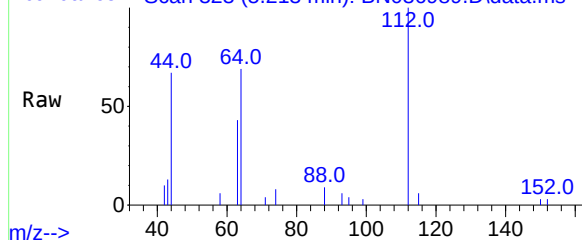
Ion Ratio Lower Upper

112 100

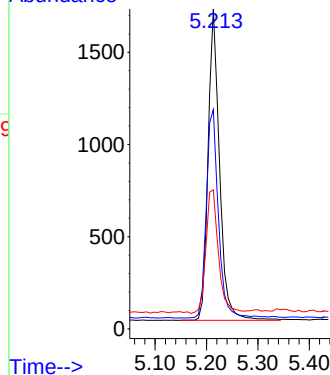
64 70.1 56.2 84.2

63 43.6 34.3 51.5

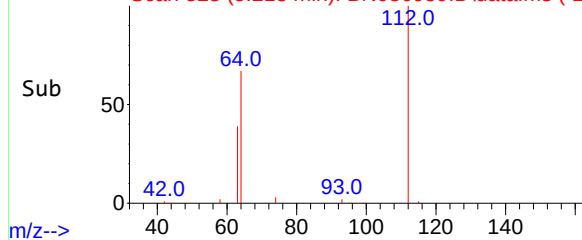
Abundance Scan 323 (5.213 min): BN036989.D\data.ms

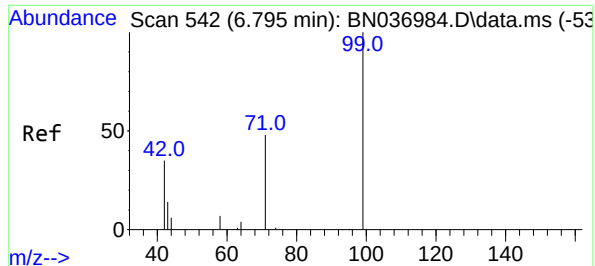


Abundance



Abundance Scan 323 (5.213 min): BN036989.D\data.ms (-29)





#5

Phenol-d6

Concen: 0.37 ng

RT: 6.795 min Scan# 542

Delta R.T. 0.000 min

Lab File: BN036989.D

Acq: 12 May 2025 17:55

Instrument :

BNA_N

ClientSampleId :

ICVBN051225

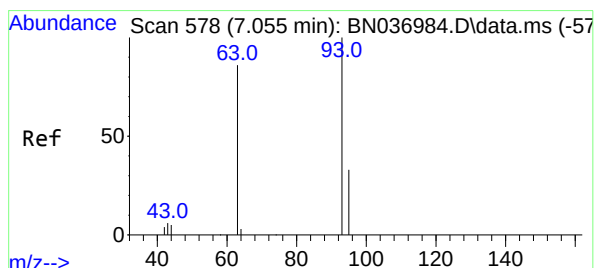
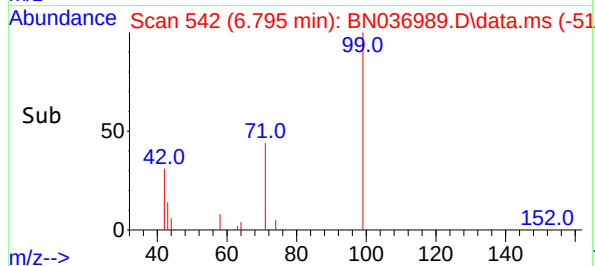
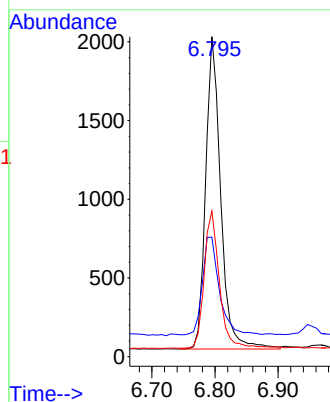
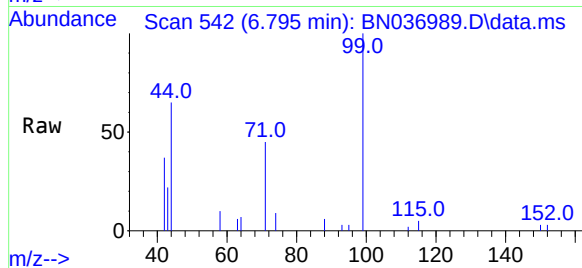
Tgt Ion: 99 Resp: 3280

Ion Ratio Lower Upper

99 100

42 35.2 29.0 43.6

71 44.8 36.2 54.2



#6

bis(2-Chloroethyl)ether

Concen: 0.44 ng

RT: 7.055 min Scan# 578

Delta R.T. 0.000 min

Lab File: BN036989.D

Acq: 12 May 2025 17:55

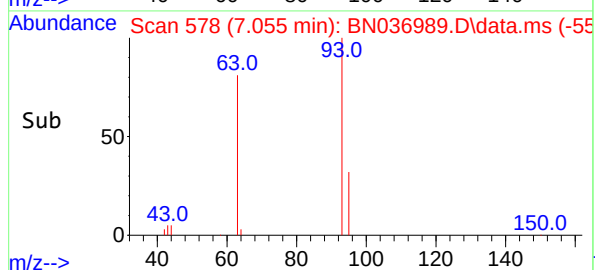
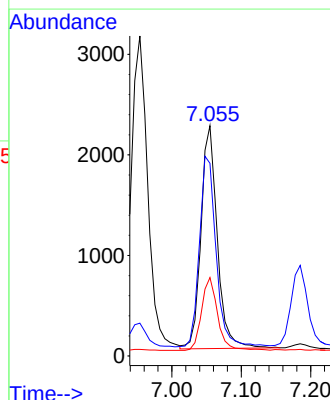
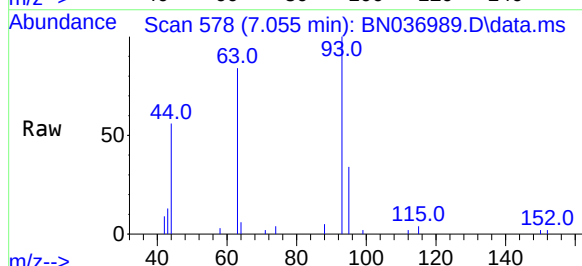
Tgt Ion: 93 Resp: 3618

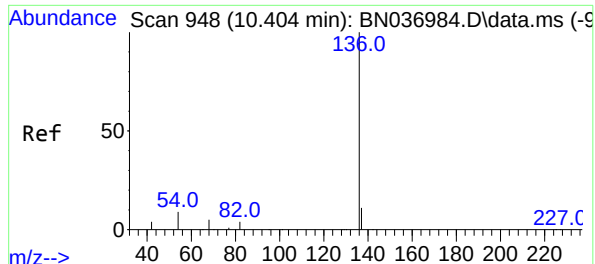
Ion Ratio Lower Upper

93 100

63 87.5 69.6 104.4

95 32.1 25.1 37.7

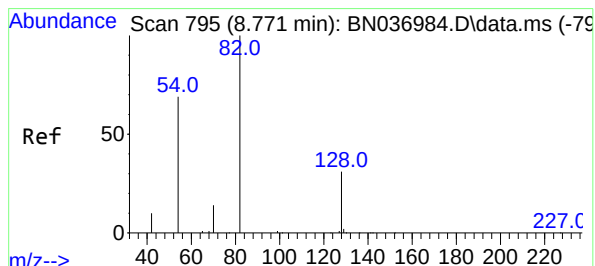
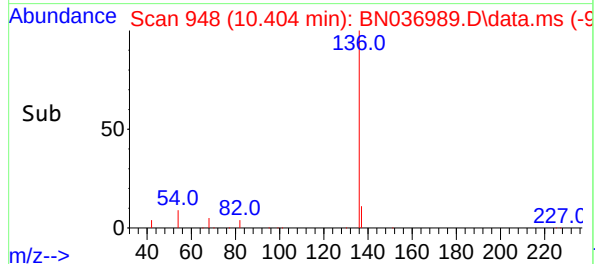
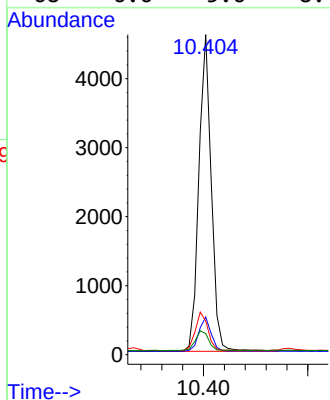
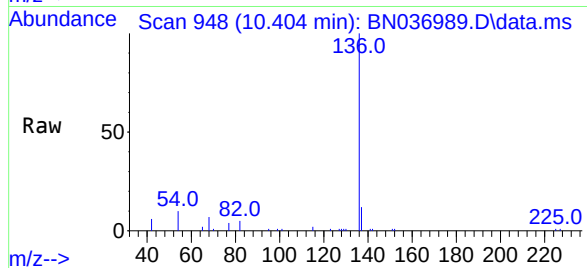




#7
Naphthalene-d8
Concen: 0.40 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN036989.D
Acq: 12 May 2025 17:55

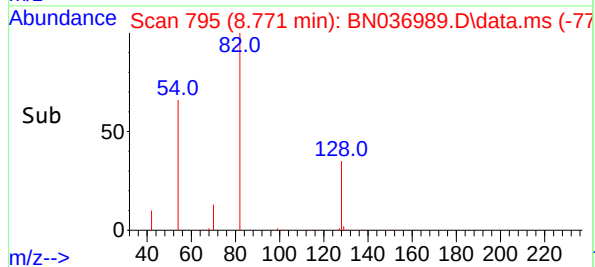
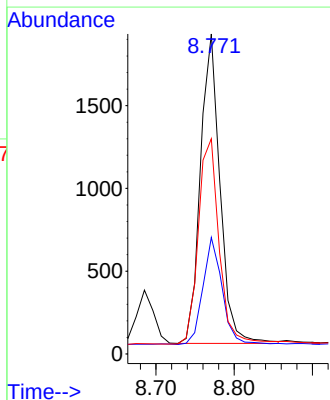
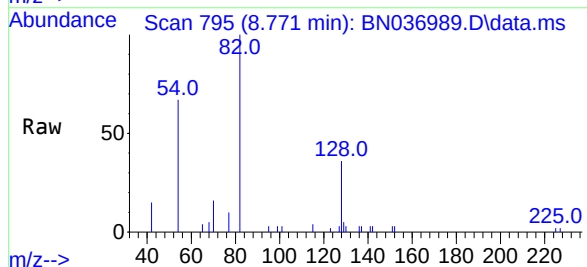
Instrument :
BNA_N
ClientSampleId :
ICVBN051225

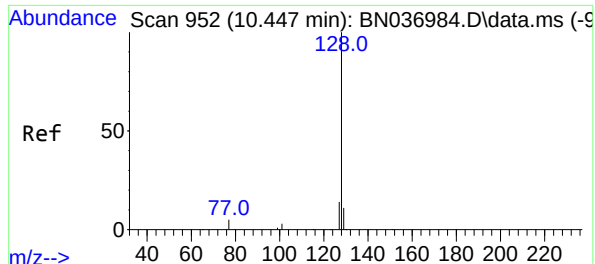
Tgt Ion:	136	Resp:	7598
Ion	Ratio	Lower	Upper
136	100		
137	11.8	10.3	15.5
54	10.5	9.2	13.8
68	6.6	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.41 ng
RT: 8.771 min Scan# 795
Delta R.T. 0.000 min
Lab File: BN036989.D
Acq: 12 May 2025 17:55

Tgt Ion:	82	Resp:	3257
Ion	Ratio	Lower	Upper
82	100		
128	36.4	28.1	42.1
54	67.3	56.4	84.6





#9

Naphthalene

Concen: 0.40 ng

RT: 10.447 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036989.D

Acq: 12 May 2025 17:55

Instrument :

BNA_N

ClientSampleId :

ICVBN051225

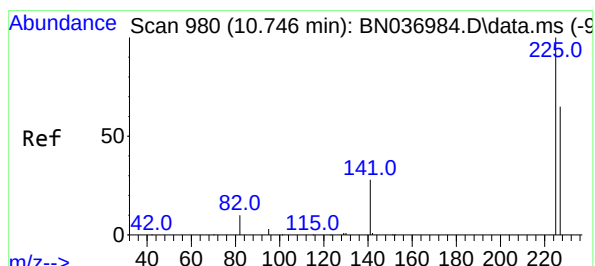
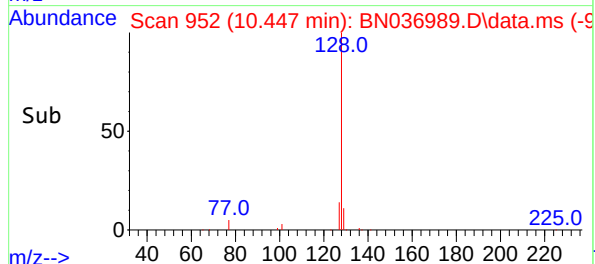
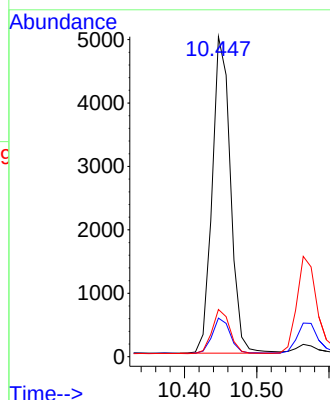
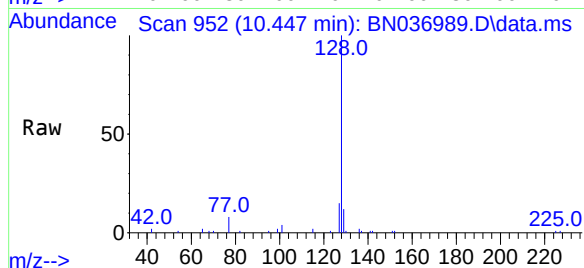
Tgt Ion:128 Resp: 8757

Ion Ratio Lower Upper

128 100

129 12.0 10.0 15.0

127 14.7 12.1 18.1



#10

Hexachlorobutadiene

Concen: 0.39 ng

RT: 10.746 min Scan# 980

Delta R.T. 0.000 min

Lab File: BN036989.D

Acq: 12 May 2025 17:55

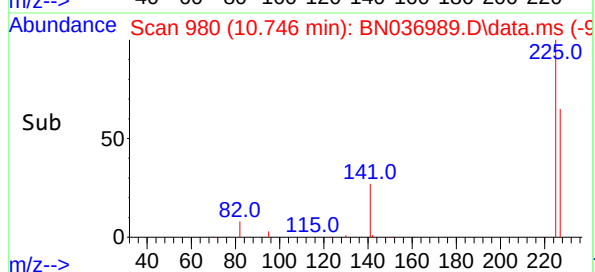
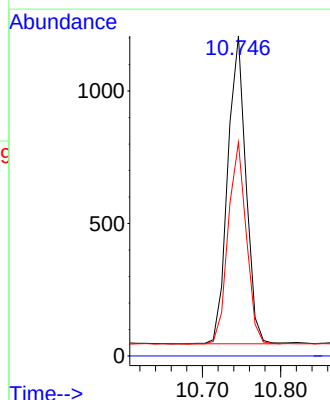
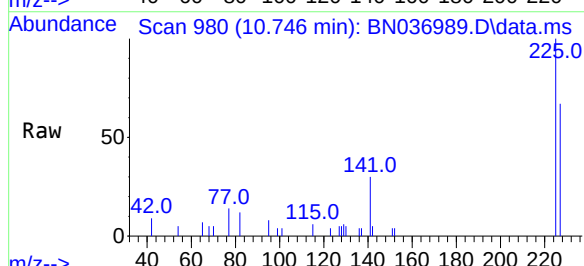
Tgt Ion:225 Resp: 1870

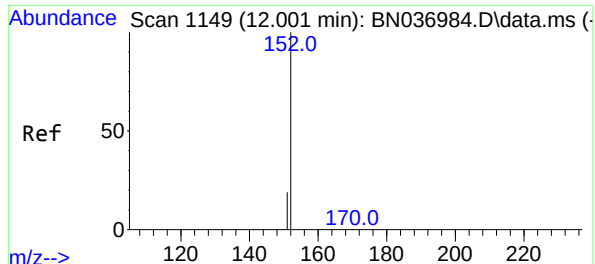
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 65.5 51.2 76.8

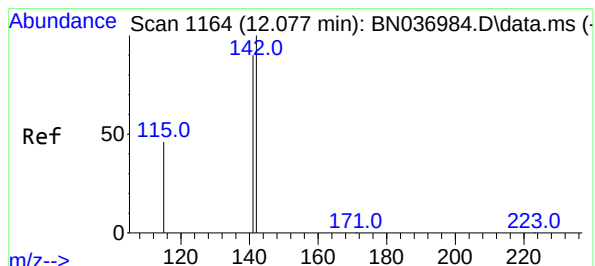
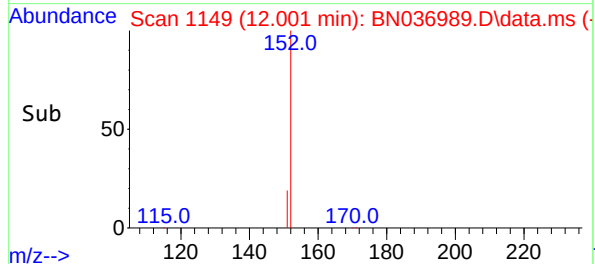
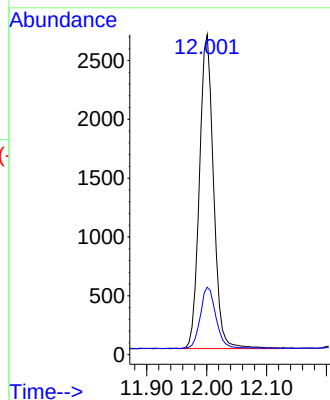
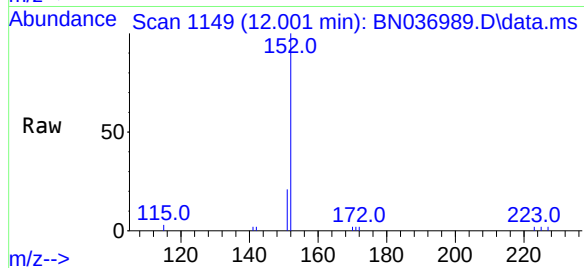




#11
2-Methylnaphthalene-d10
Concen: 0.41 ng
RT: 12.001 min Scan# 1149
Delta R.T. 0.000 min
Lab File: BN036989.D
Acq: 12 May 2025 17:55

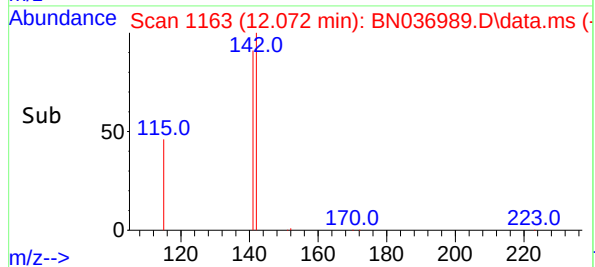
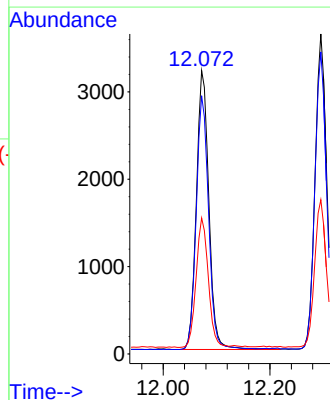
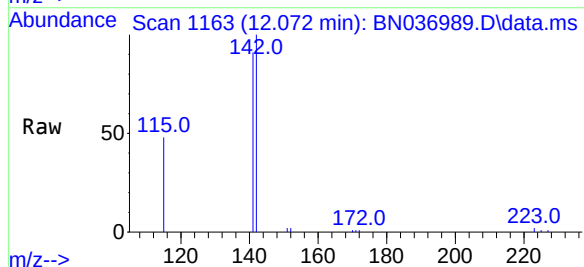
Instrument :
BNA_N
ClientSampleId :
ICVBN051225

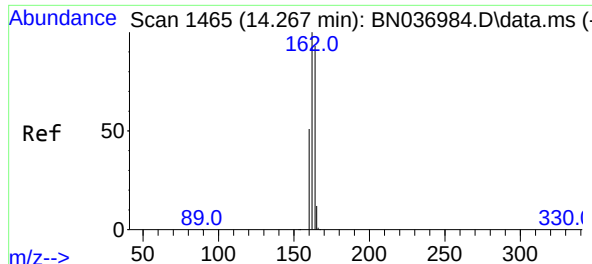
Tgt Ion:152 Resp: 4369
Ion Ratio Lower Upper
152 100
151 21.5 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.36 ng
RT: 12.072 min Scan# 1163
Delta R.T. -0.005 min
Lab File: BN036989.D
Acq: 12 May 2025 17:55

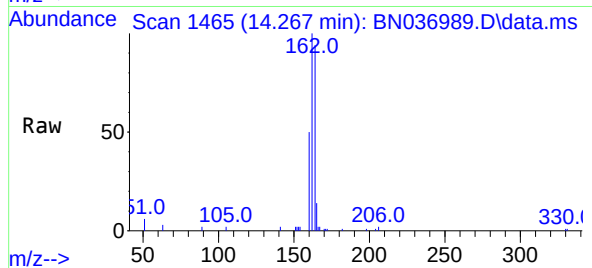
Tgt Ion:142 Resp: 5190
Ion Ratio Lower Upper
142 100
141 91.1 71.8 107.8
115 48.0 38.6 58.0



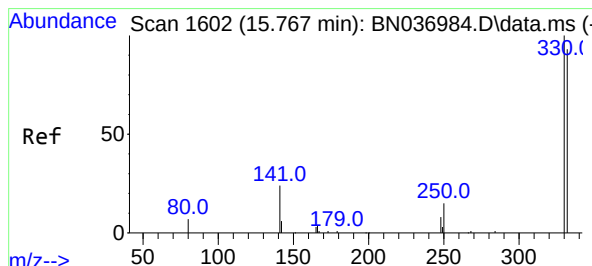
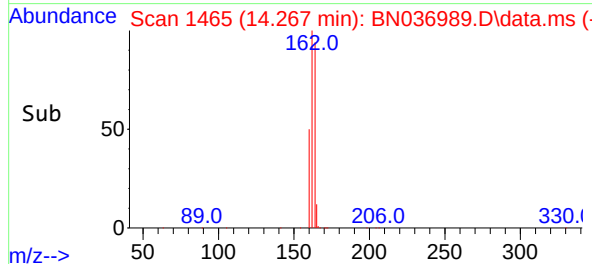
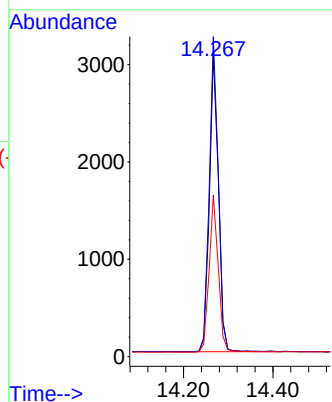


#13
Acenaphthene-d10
Concen: 0.40 ng
RT: 14.267 min Scan# 1465
Delta R.T. 0.000 min
Lab File: BN036989.D
Acq: 12 May 2025 17:55

Instrument :
BNA_N
ClientSampleId :
ICVBN051225

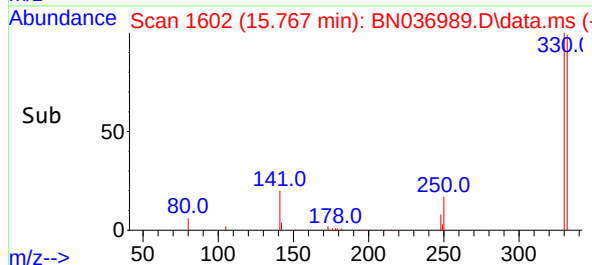
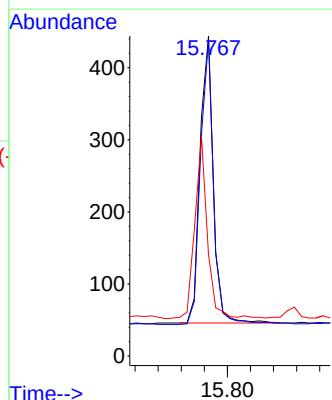
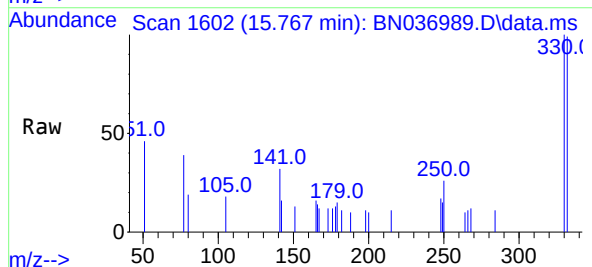


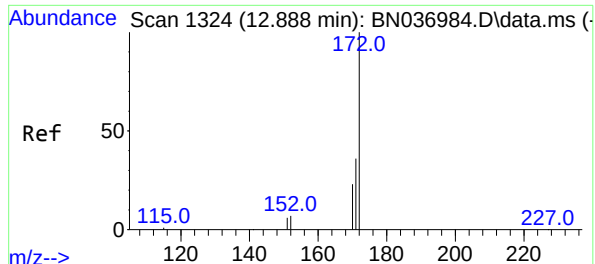
Tgt Ion:164 Resp: 4289
Ion Ratio Lower Upper
164 100
162 106.1 86.1 129.1
160 53.5 44.6 67.0



#14
2,4,6-Tribromophenol
Concen: 0.32 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN036989.D
Acq: 12 May 2025 17:55

Tgt Ion:330 Resp: 635
Ion Ratio Lower Upper
330 100
332 98.6 75.6 113.4
141 59.5 47.4 71.2





#15

2-Fluorobiphenyl

Concen: 0.38 ng

RT: 12.888 min Scan# 1324

Delta R.T. 0.000 min

Lab File: BN036989.D

Acq: 12 May 2025 17:55

Instrument :

BNA_N

ClientSampleId :

ICVBN051225

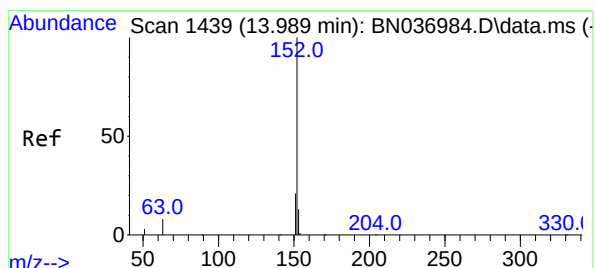
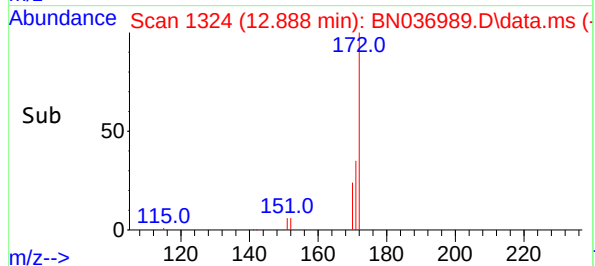
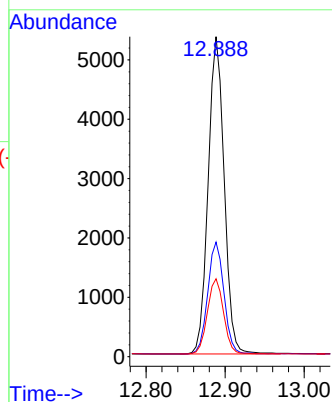
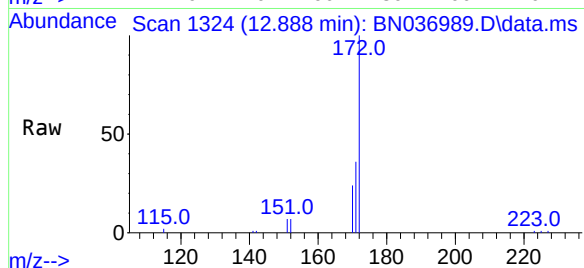
Tgt Ion:172 Resp: 7553

Ion Ratio Lower Upper

172 100

171 35.8 29.4 44.2

170 24.4 19.4 29.0



#16

Acenaphthylene

Concen: 0.42 ng

RT: 13.989 min Scan# 1439

Delta R.T. 0.000 min

Lab File: BN036989.D

Acq: 12 May 2025 17:55

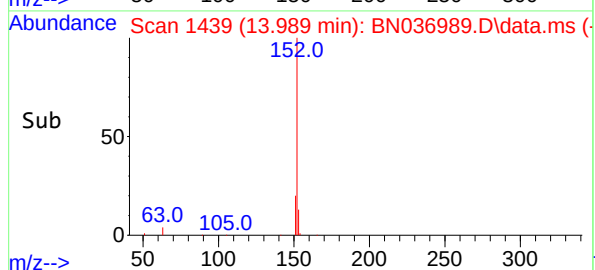
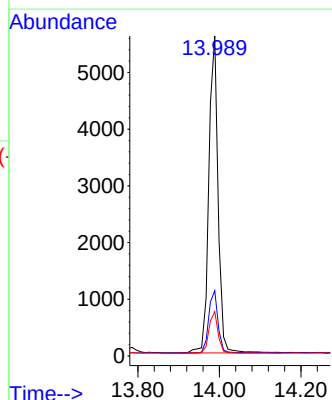
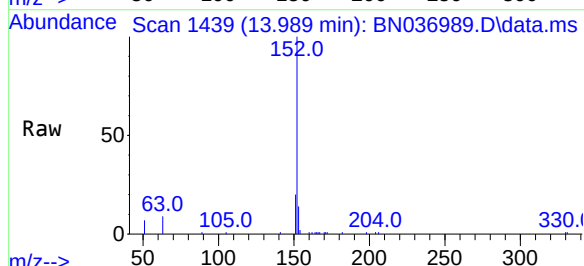
Tgt Ion:152 Resp: 8800

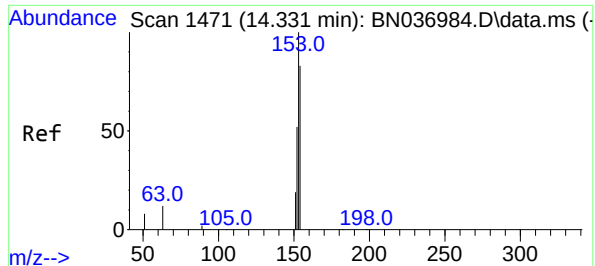
Ion Ratio Lower Upper

152 100

151 19.9 16.2 24.4

153 13.0 10.9 16.3

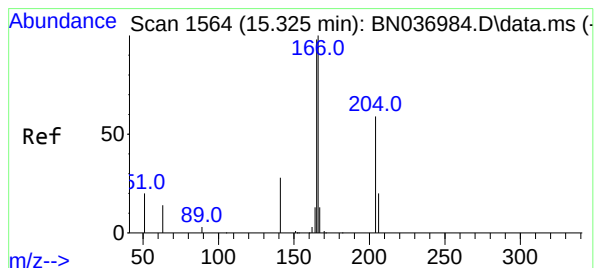
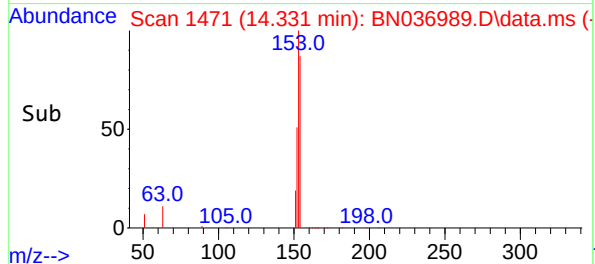
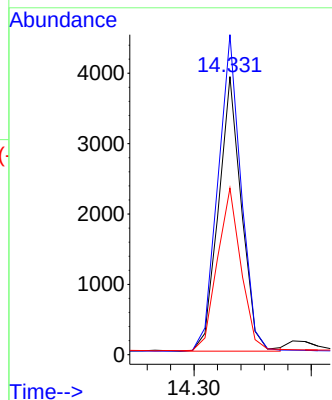
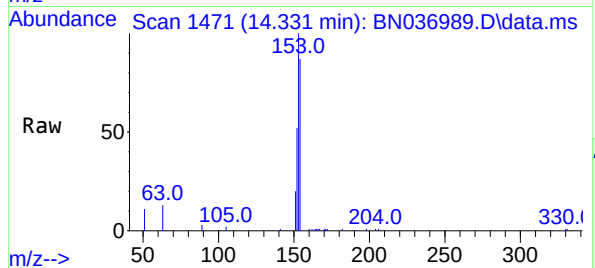




#17
Acenaphthene
Concen: 0.39 ng
RT: 14.331 min Scan# 1471
Delta R.T. 0.000 min
Lab File: BN036989.D
Acq: 12 May 2025 17:55

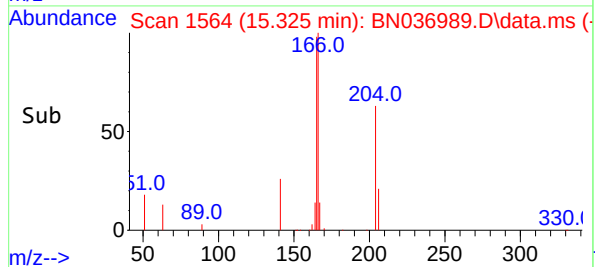
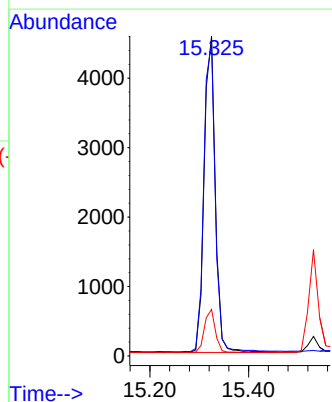
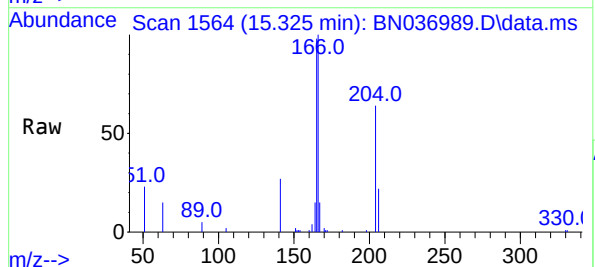
Instrument :
BNA_N
ClientSampleId :
ICVBN051225

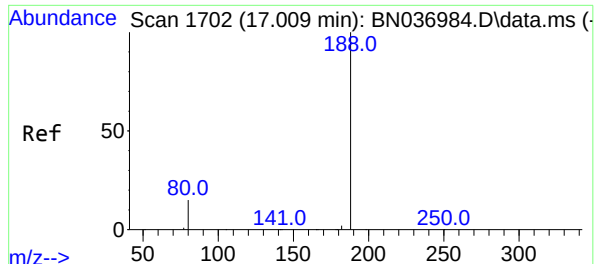
Tgt Ion:154 Resp: 5323
Ion Ratio Lower Upper
154 100
153 116.6 94.6 142.0
152 61.8 49.4 74.2



#18
Fluorene
Concen: 0.39 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.000 min
Lab File: BN036989.D
Acq: 12 May 2025 17:55

Tgt Ion:166 Resp: 7134
Ion Ratio Lower Upper
166 100
165 99.7 81.0 121.4
167 13.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.40 ng

RT: 17.009 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036989.D

Acq: 12 May 2025 17:55

Instrument :

BNA_N

ClientSampleId :

ICVBN051225

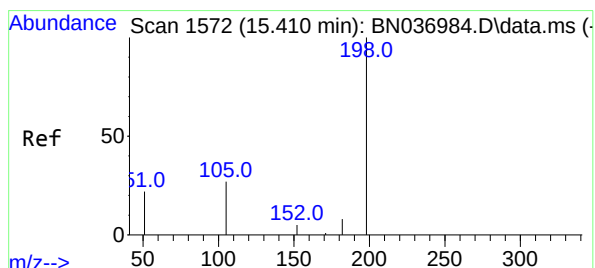
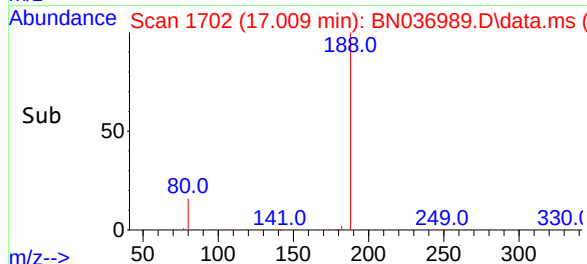
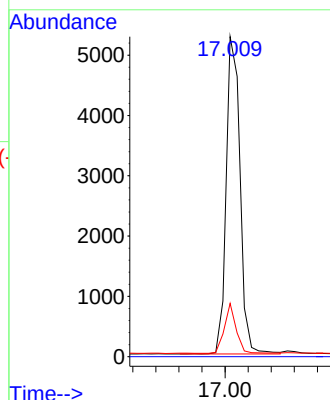
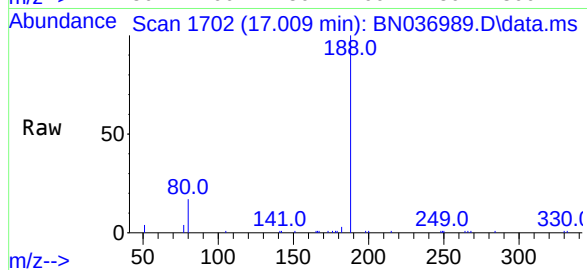
Tgt Ion:188 Resp: 8773

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.7 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.35 ng

RT: 15.410 min Scan# 1572

Delta R.T. 0.000 min

Lab File: BN036989.D

Acq: 12 May 2025 17:55

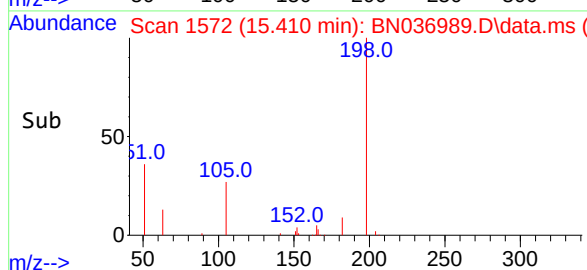
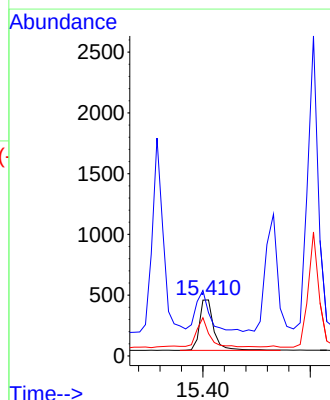
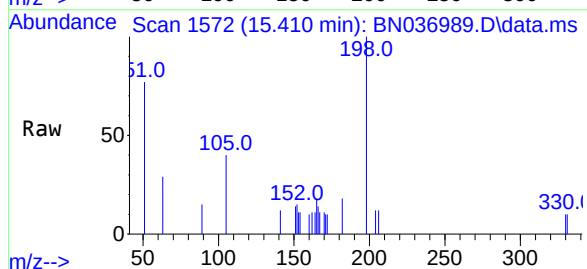
Tgt Ion:198 Resp: 794

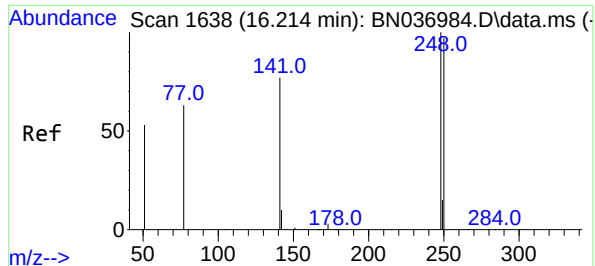
Ion Ratio Lower Upper

198 100

51 77.2 79.7 119.5#

105 40.1 36.0 54.0

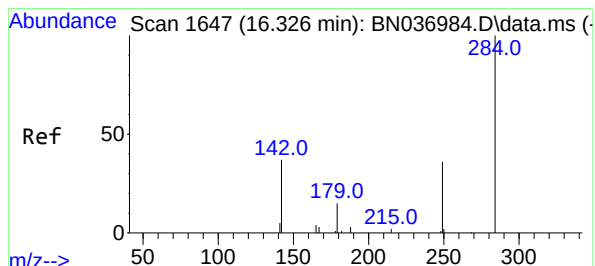
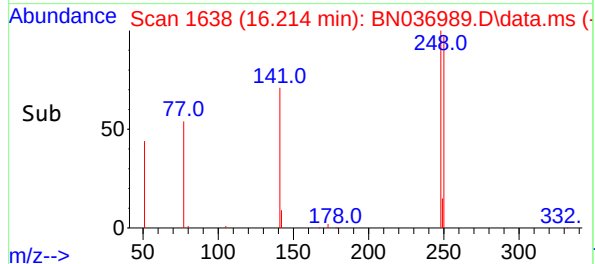
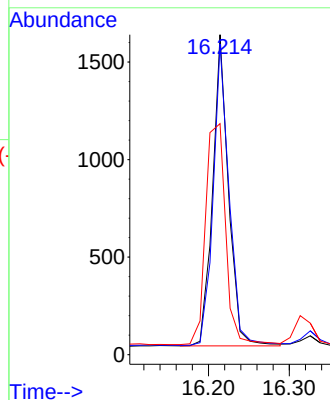
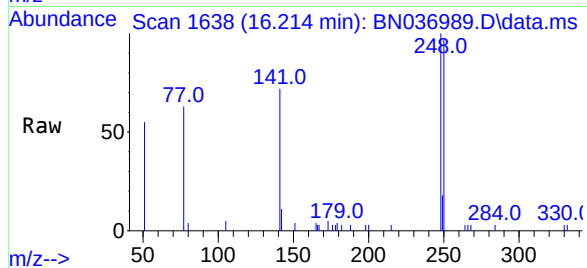




#21
4-Bromophenyl-phenylether
Concen: 0.38 ng
RT: 16.214 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN036989.D
Acq: 12 May 2025 17:55

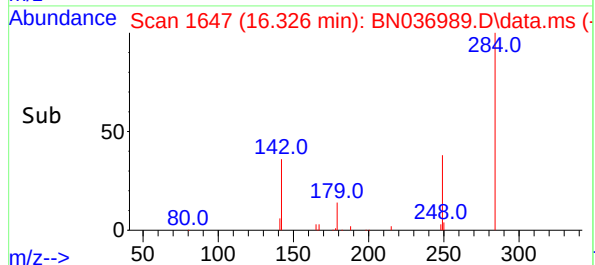
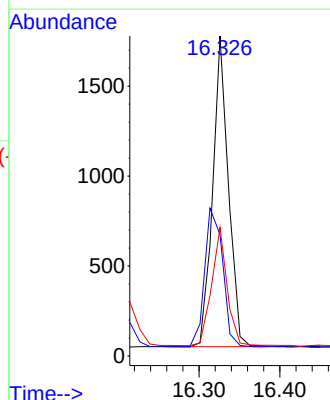
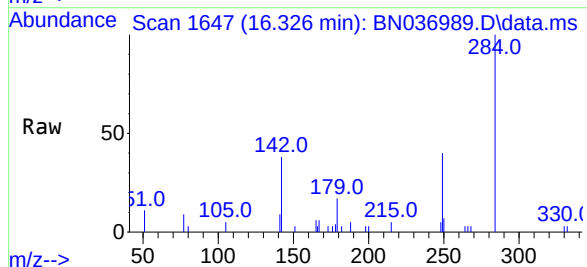
Instrument :
BNA_N
ClientSampleId :
ICVBN051225

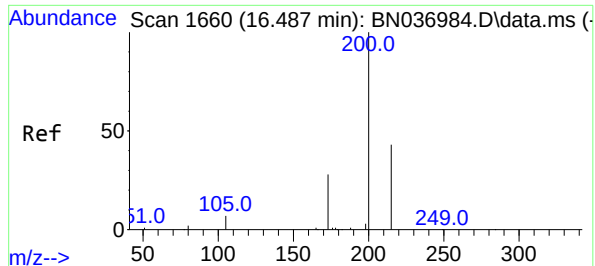
Tgt Ion: 248 Resp: 2169
Ion Ratio Lower Upper
248 100
250 97.1 77.8 116.8
141 72.2 63.1 94.7



#22
Hexachlorobenzene
Concen: 0.38 ng
RT: 16.326 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN036989.D
Acq: 12 May 2025 17:55

Tgt Ion: 284 Resp: 2332
Ion Ratio Lower Upper
284 100
142 51.2 41.4 62.2
249 38.5 29.1 43.7

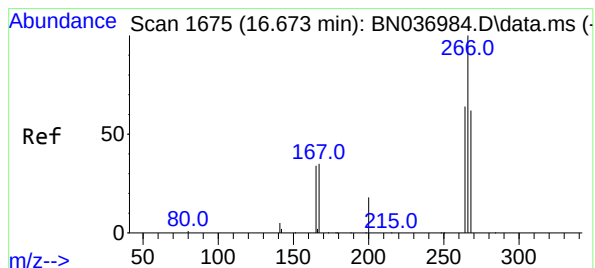
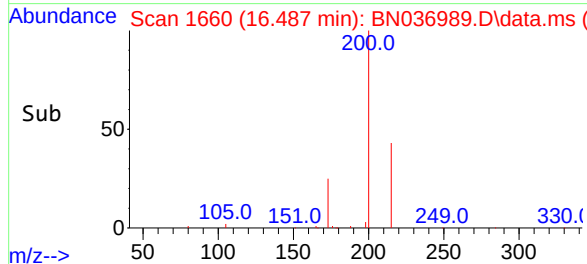
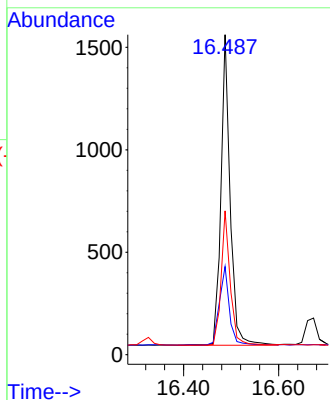
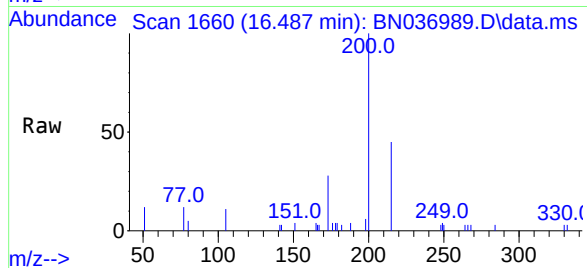




#23
Atrazine
Concen: 0.40 ng
RT: 16.487 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN036989.D
Acq: 12 May 2025 17:55

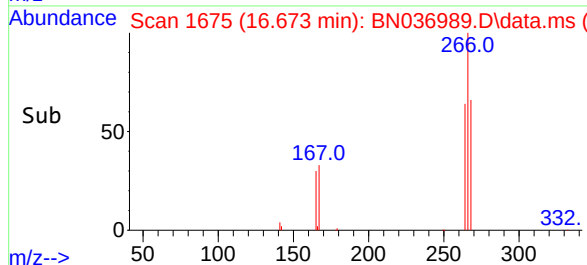
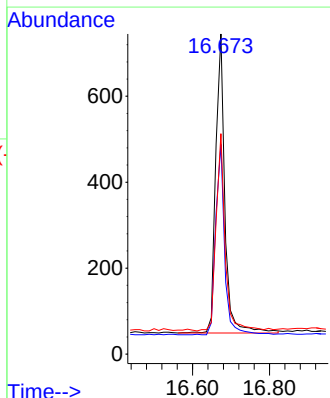
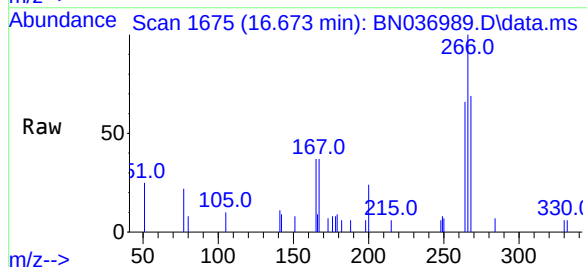
Instrument :
BNA_N
ClientSampleId :
ICVBN051225

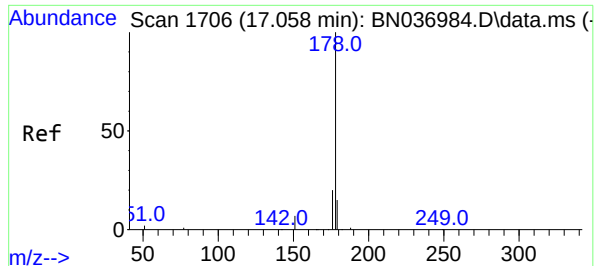
Tgt Ion	Ratio	Lower	Upper
200	100		
173	27.5	25.8	38.6
215	44.9	37.4	56.0



#24
Pentachlorophenol
Concen: 0.34 ng
RT: 16.673 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN036989.D
Acq: 12 May 2025 17:55

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.3	52.8	79.2
268	64.6	50.0	75.0

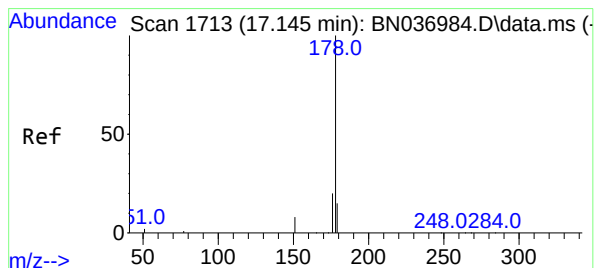
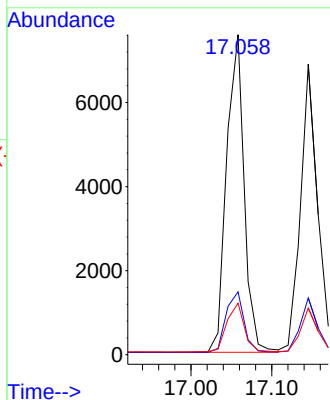
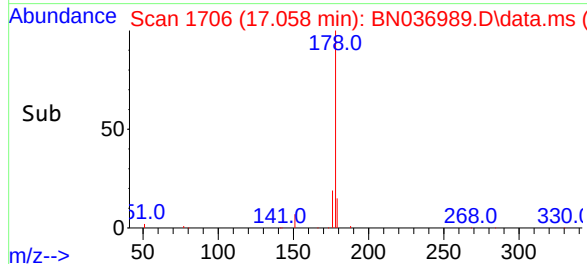
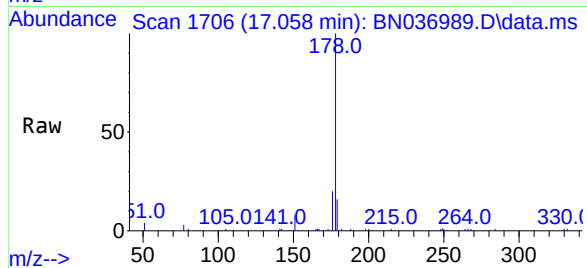




#25
Phenanthrene
Concen: 0.40 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN036989.D
Acq: 12 May 2025 17:55

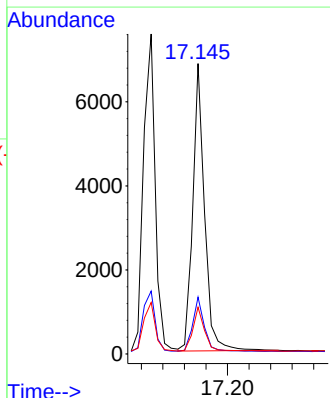
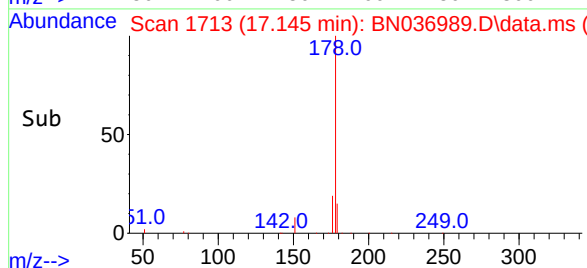
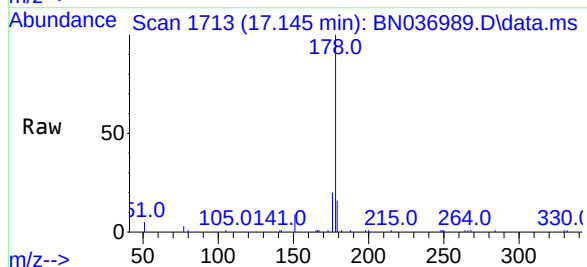
Instrument :
BNA_N
ClientSampleId :
ICVBN051225

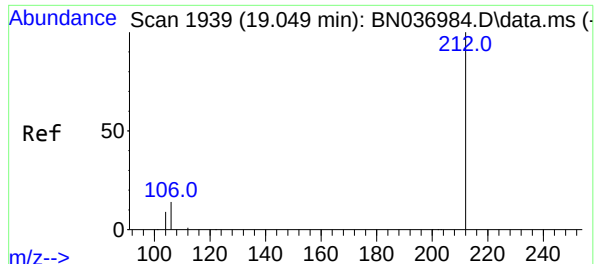
Tgt Ion:178 Resp: 11462
Ion Ratio Lower Upper
178 100
176 19.5 16.0 24.0
179 15.5 12.3 18.5



#26
Anthracene
Concen: 0.39 ng
RT: 17.145 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN036989.D
Acq: 12 May 2025 17:55

Tgt Ion:178 Resp: 10393
Ion Ratio Lower Upper
178 100
176 18.8 15.3 22.9
179 15.4 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.40 ng

RT: 19.049 min Scan# 1939

Delta R.T. 0.000 min

Lab File: BN036989.D

Acq: 12 May 2025 17:55

Instrument :

BNA_N

ClientSampleId :

ICVBN051225

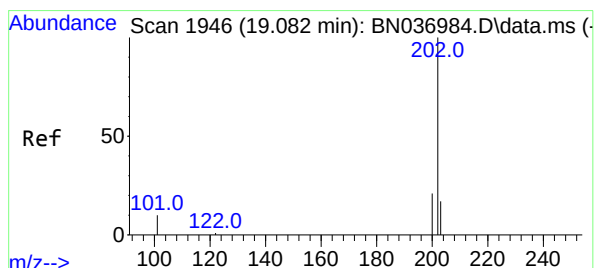
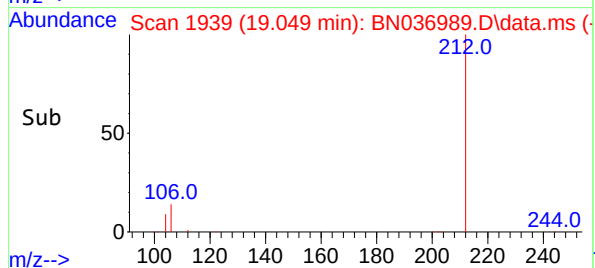
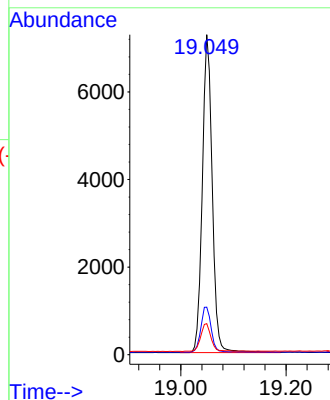
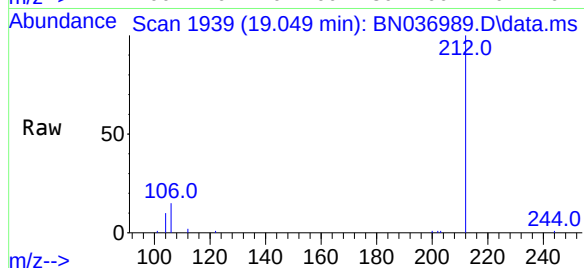
Tgt Ion:212 Resp: 9501

Ion Ratio Lower Upper

212 100

106 14.7 11.3 16.9

104 9.1 7.0 10.4



#28

Fluoranthene

Concen: 0.39 ng

RT: 19.082 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN036989.D

Acq: 12 May 2025 17:55

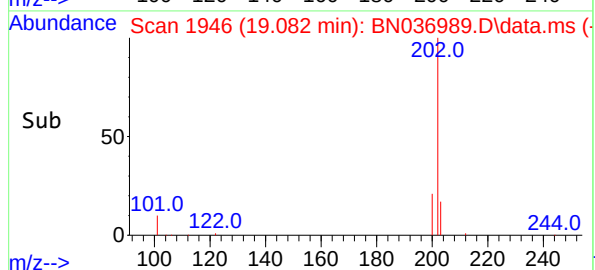
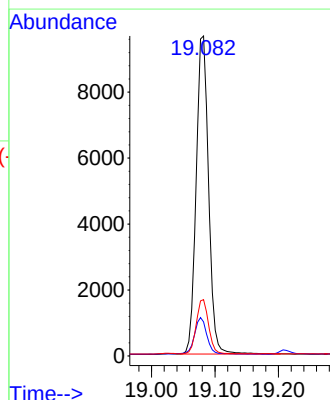
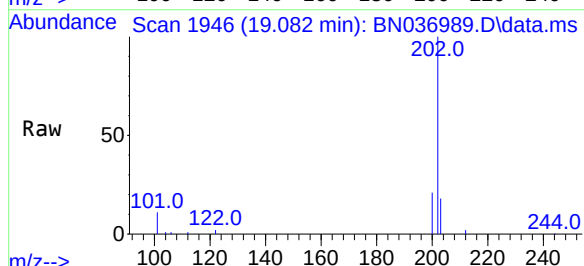
Tgt Ion:202 Resp: 13067

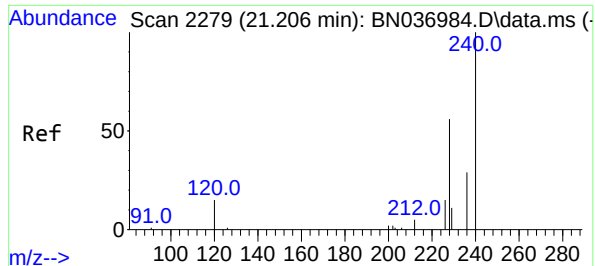
Ion Ratio Lower Upper

202 100

101 11.4 8.6 12.8

203 16.8 13.5 20.3





#29

Chrysene-d12

Concen: 0.40 ng

RT: 21.206 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036989.D

Acq: 12 May 2025 17:55

Instrument :

BNA_N

ClientSampleId :

ICVBN051225

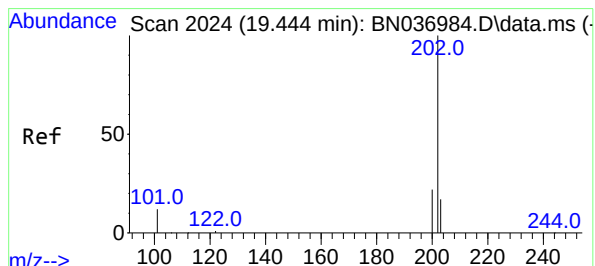
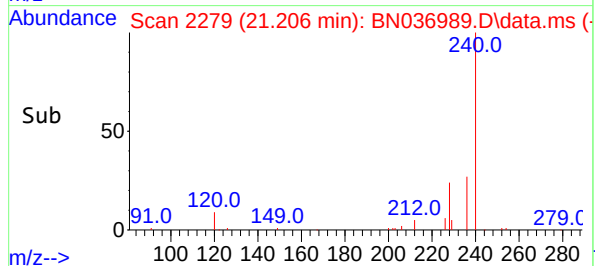
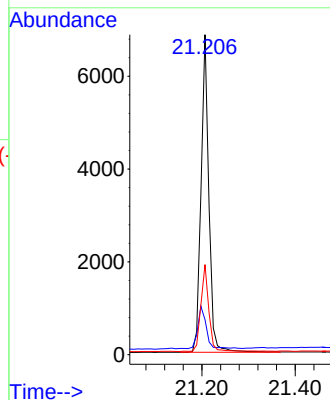
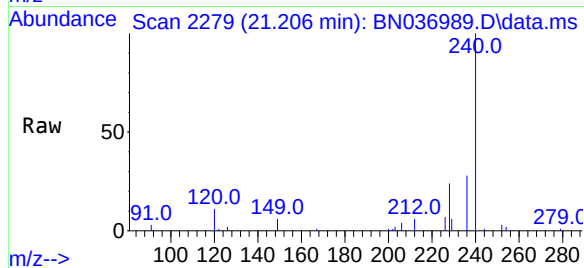
Tgt Ion:240 Resp: 7998

Ion Ratio Lower Upper

240 100

120 10.9 14.5 21.7#

236 28.1 24.3 36.5



#30

Pyrene

Concen: 0.36 ng

RT: 19.444 min Scan# 2024

Delta R.T. 0.000 min

Lab File: BN036989.D

Acq: 12 May 2025 17:55

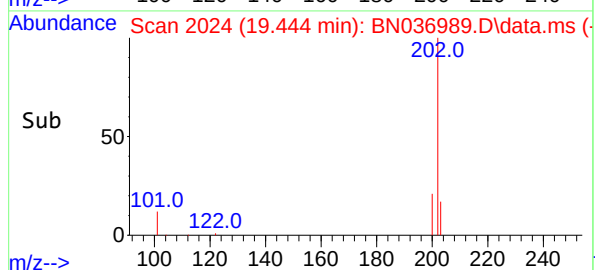
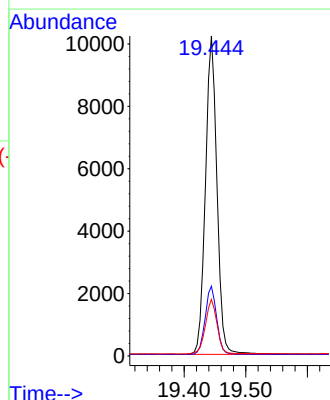
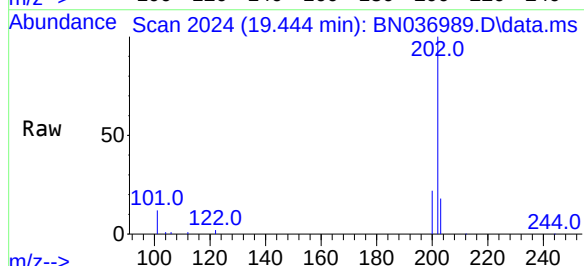
Tgt Ion:202 Resp: 13193

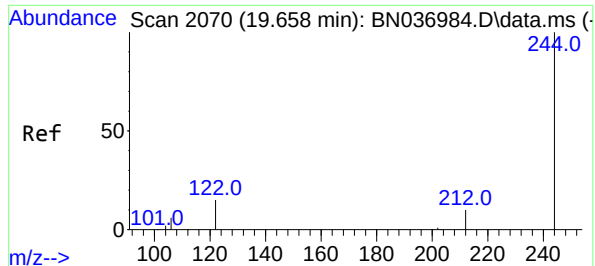
Ion Ratio Lower Upper

202 100

200 21.6 17.3 25.9

203 17.6 14.4 21.6

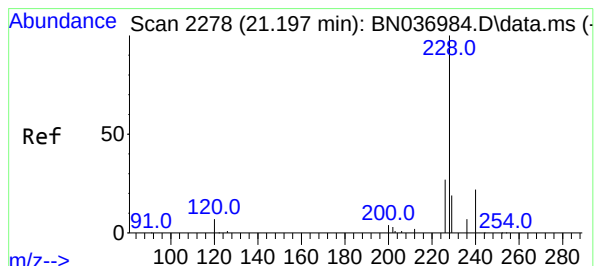
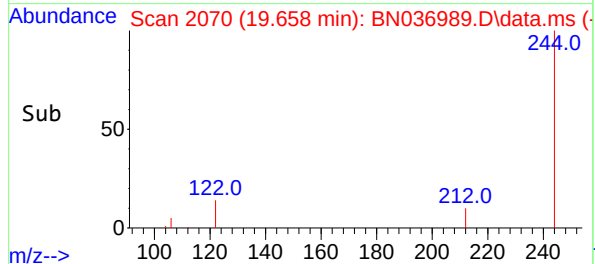
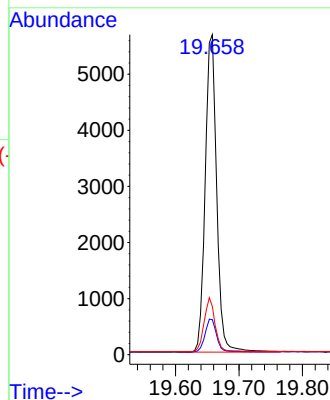
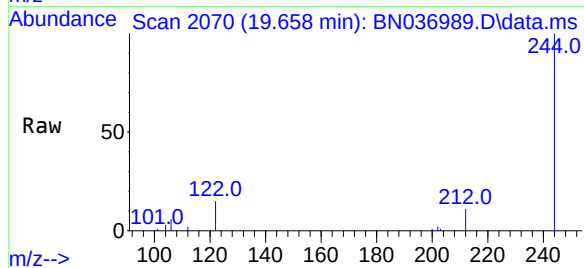




#31
Terphenyl-d14
Concen: 0.39 ng
RT: 19.658 min Scan# 2070
Delta R.T. 0.000 min
Lab File: BN036989.D
Acq: 12 May 2025 17:55

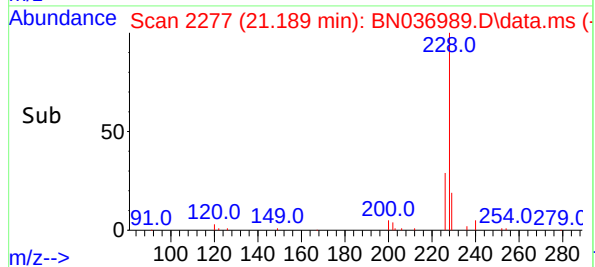
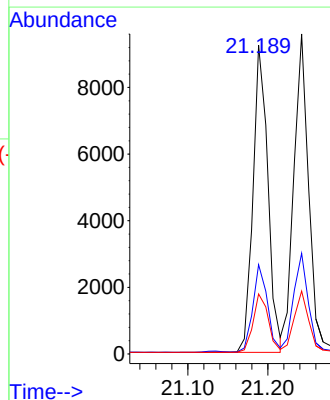
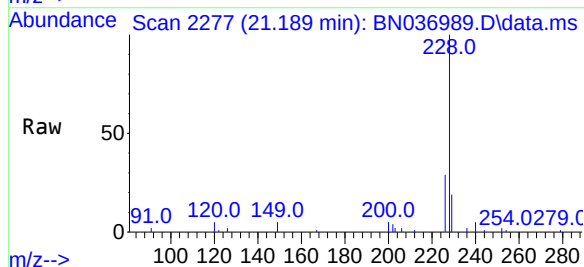
Instrument :
BNA_N
ClientSampleId :
ICVBN051225

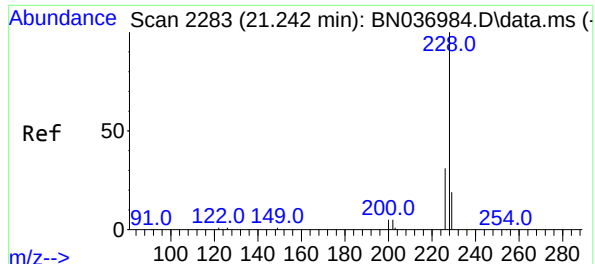
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.9	9.5	14.3
122	15.1	13.4	20.0



#32
Benzo(a)anthracene
Concen: 0.39 ng
RT: 21.189 min Scan# 2277
Delta R.T. -0.009 min
Lab File: BN036989.D
Acq: 12 May 2025 17:55

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.4	33.6
229	19.4	16.0	24.0





#33

Chrysene

Concen: 0.39 ng

RT: 21.242 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036989.D

Acq: 12 May 2025 17:55

Instrument :

BNA_N

ClientSampleId :

ICVBN051225

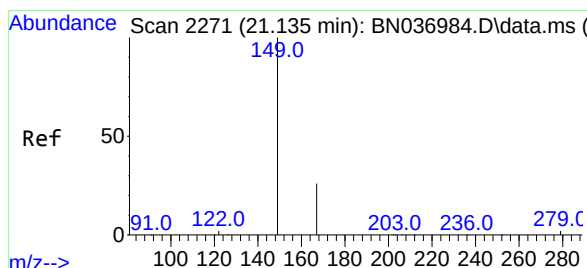
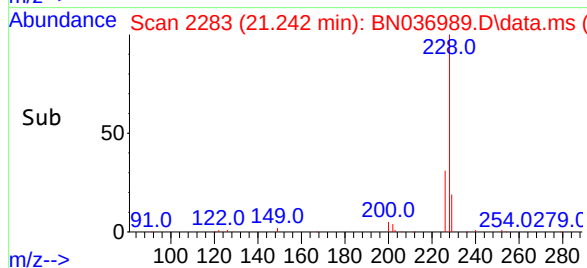
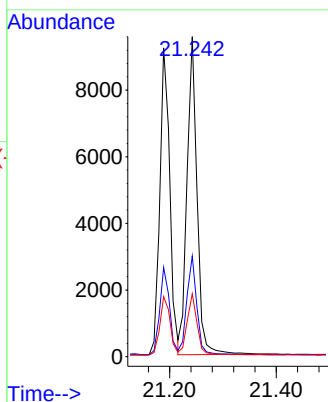
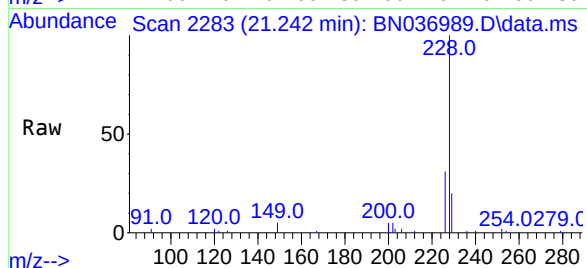
Tgt Ion:228 Resp: 12508

Ion Ratio Lower Upper

228 100

226 31.5 25.7 38.5

229 19.6 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.37 ng

RT: 21.135 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BN036989.D

Acq: 12 May 2025 17:55

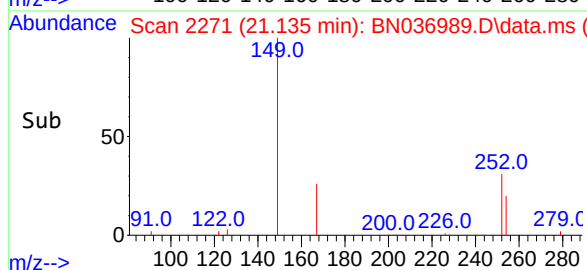
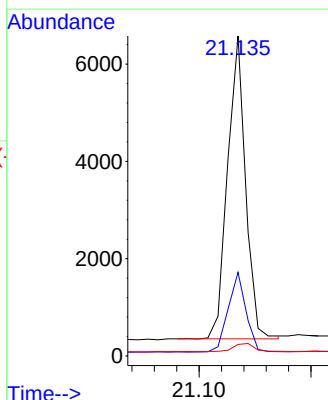
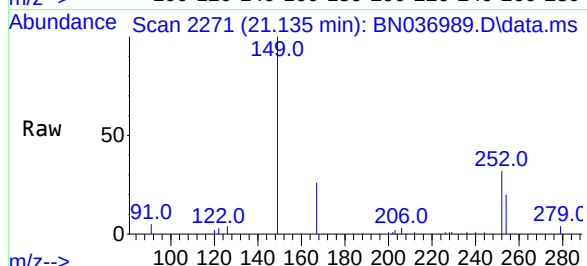
Tgt Ion:149 Resp: 6961

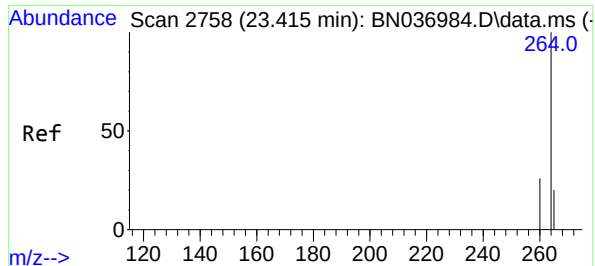
Ion Ratio Lower Upper

149 100

167 26.2 21.0 31.6

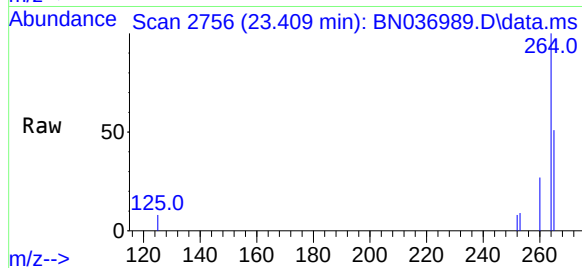
279 3.3 2.7 4.1



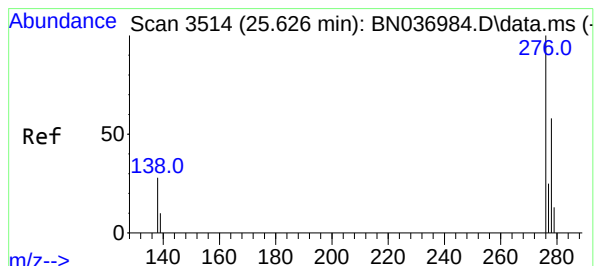
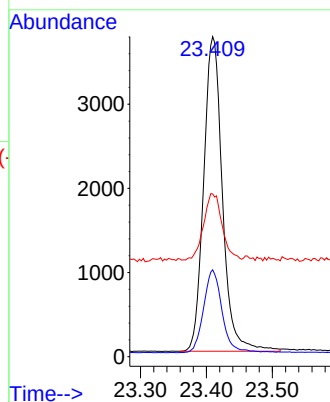
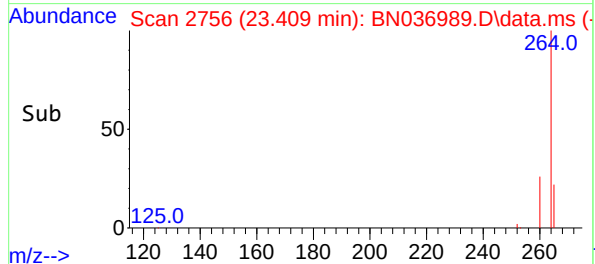


#35
Perylene-d12
Concen: 0.40 ng
RT: 23.409 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN036989.D
Acq: 12 May 2025 17:55

Instrument :
BNA_N
ClientSampleId :
ICVBN051225

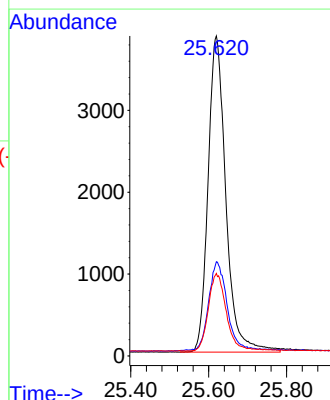
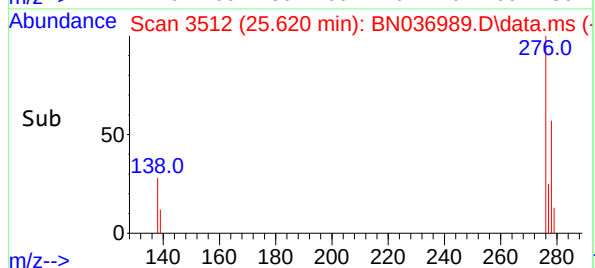
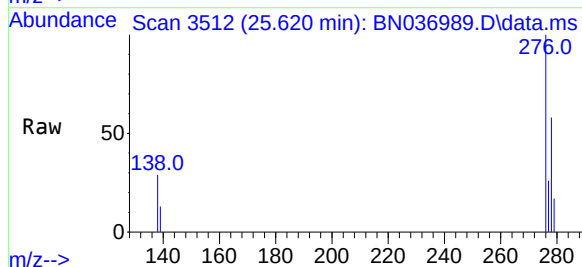


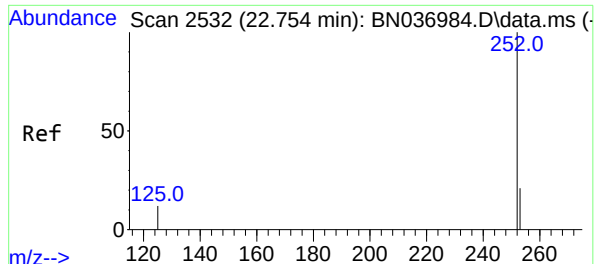
Tgt Ion:264 Resp: 7407
Ion Ratio Lower Upper
264 100
260 27.1 22.3 33.5
265 50.9 55.4 83.0#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.42 ng
RT: 25.620 min Scan# 3512
Delta R.T. -0.006 min
Lab File: BN036989.D
Acq: 12 May 2025 17:55

Tgt Ion:276 Resp: 12234
Ion Ratio Lower Upper
276 100
138 28.2 21.8 32.8
277 24.6 20.2 30.4





#37

Benzo(b)fluoranthene

Concen: 0.39 ng

RT: 22.749 min Scan# 2530

Delta R.T. -0.006 min

Lab File: BN036989.D

Acq: 12 May 2025 17:55

Instrument :

BNA_N

ClientSampleId :

ICVBN051225

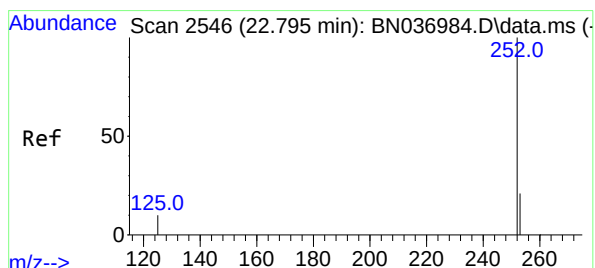
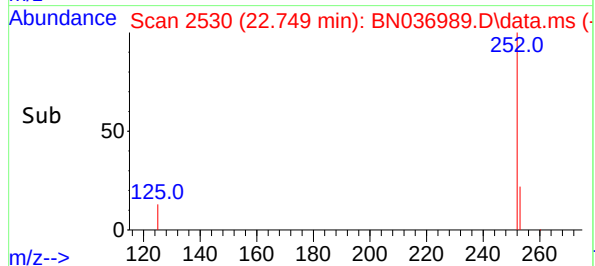
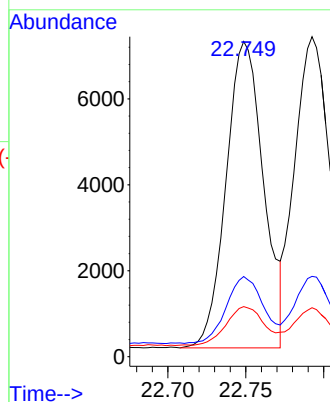
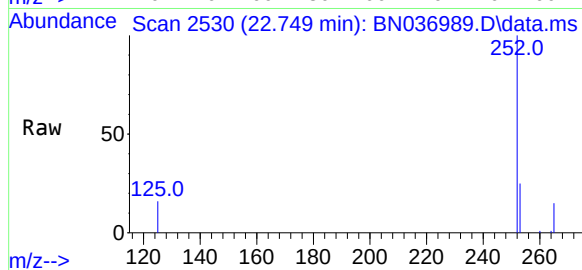
Tgt Ion:252 Resp: 11911

Ion Ratio Lower Upper

252 100

253 25.5 21.9 32.9

125 15.9 13.8 20.8



#38

Benzo(k)fluoranthene

Concen: 0.40 ng

RT: 22.793 min Scan# 2545

Delta R.T. -0.003 min

Lab File: BN036989.D

Acq: 12 May 2025 17:55

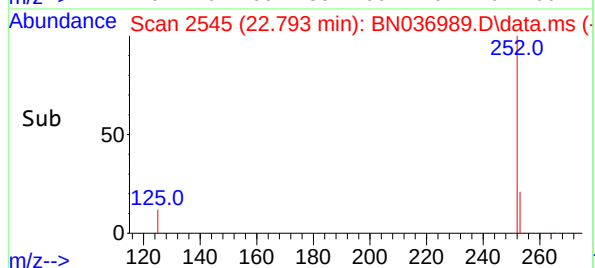
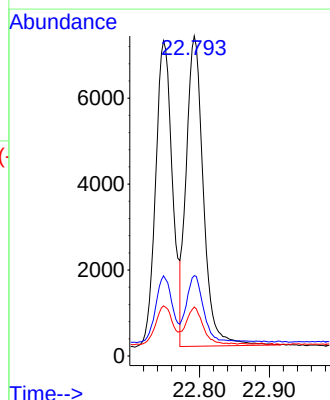
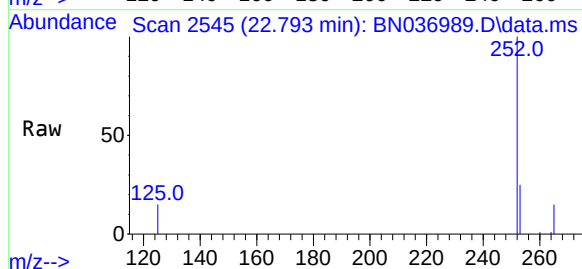
Tgt Ion:252 Resp: 12254

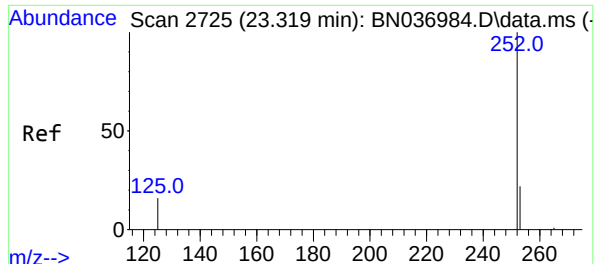
Ion Ratio Lower Upper

252 100

253 25.1 22.0 33.0

125 15.3 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.42 ng

RT: 23.313 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036989.D

Acq: 12 May 2025 17:55

Instrument :

BNA_N

ClientSampleId :

ICVBN051225

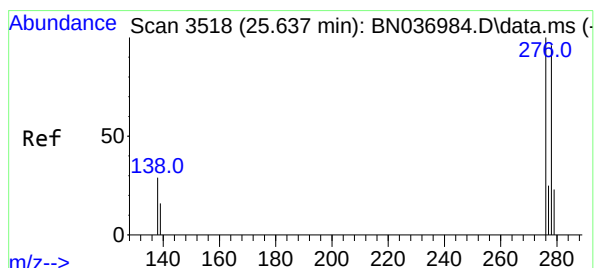
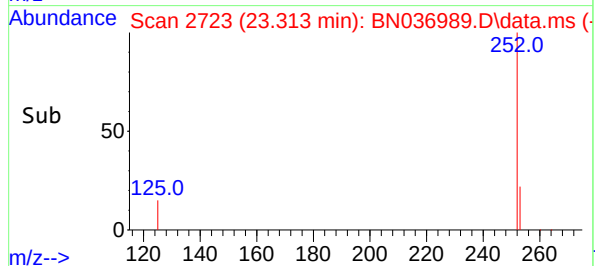
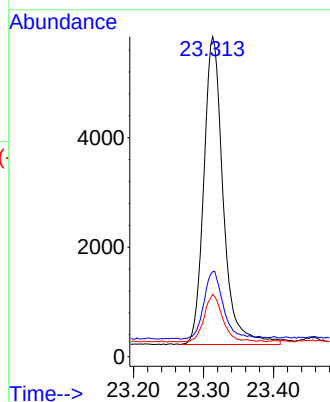
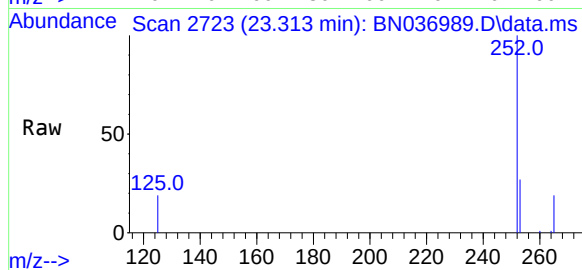
Tgt Ion:252 Resp: 10834

Ion Ratio Lower Upper

252 100

253 26.5 24.8 37.2

125 19.5 18.6 28.0



#40

Dibenzo(a,h)anthracene

Concen: 0.41 ng

RT: 25.637 min Scan# 3518

Delta R.T. 0.000 min

Lab File: BN036989.D

Acq: 12 May 2025 17:55

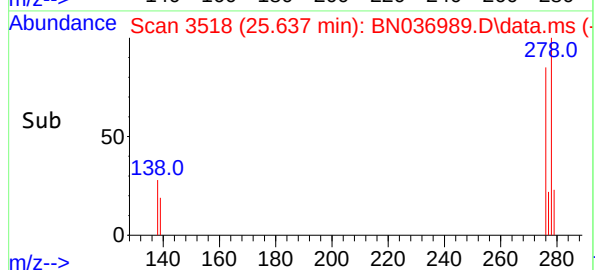
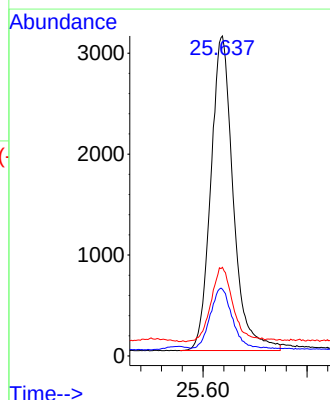
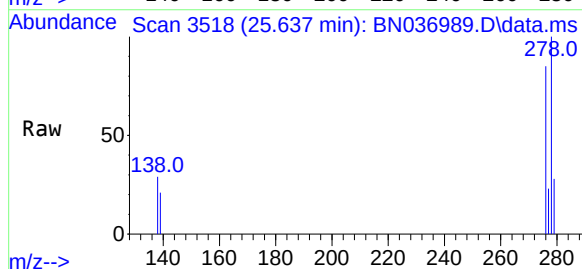
Tgt Ion:278 Resp: 9338

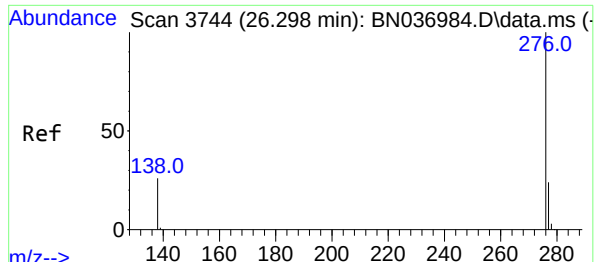
Ion Ratio Lower Upper

278 100

139 20.8 18.1 27.1

279 27.7 25.3 37.9





#41

Benzo(g,h,i)perylene

Concen: 0.39 ng

RT: 26.292 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN036989.D

Acq: 12 May 2025 17:55

Instrument :

BNA_N

ClientSampleId :

ICVBN051225

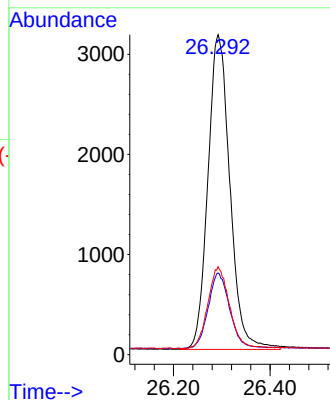
Tgt Ion:276 Resp: 9926

Ion Ratio Lower Upper

276 100

277 25.6 21.2 31.8

138 27.5 22.6 33.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051225\
 Data File : BN036989.D
 Acq On : 12 May 2025 17:55
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN051225

Quant Time: May 12 18:21:01 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 12 18:05:36 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	169#	0.00
2	1,4-Dioxane	0.509	0.520	-2.2	162#	0.00
3	n-Nitrosodimethylamine	1.058	1.006	4.9	157#	0.00
4 S	2-Fluorophenol	1.031	0.911	11.6	137	0.00
5 S	Phenol-d6	1.250	1.144	8.5	145	0.00
6	bis(2-Chloroethyl)ether	1.160	1.262	-8.8	185#	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	177#	0.00
8 S	Nitrobenzene-d5	0.422	0.429	-1.7	181#	0.00
9	Naphthalene	1.162	1.153	0.8	176#	0.00
10	Hexachlorobutadiene	0.249	0.246	1.2	172#	0.00
11 SURR	2-Methylnaphthalene-d10	0.562	0.575	-2.3	187#	0.00
12	2-Methylnaphthalene	0.754	0.683	9.4	165#	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	181#	0.00
14 S	2,4,6-Tribromophenol	0.183	0.148	19.1	144	0.00
15 S	2-Fluorobiphenyl	1.868	1.761	5.7	163#	0.00
16	Acenaphthylene	1.955	2.052	-5.0	196#	0.00
17	Acenaphthene	1.284	1.241	3.3	177#	0.00
18	Fluorene	1.721	1.663	3.4	176#	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	179#	0.00
20	4,6-Dinitro-2-methylphenol	0.102	0.091	10.8	172#	0.00
21	4-Bromophenyl-phenylether	0.260	0.247	5.0	175#	0.00
22	Hexachlorobenzene	0.278	0.266	4.3	171#	0.00
23	Atrazine	0.229	0.231	-0.9	187#	0.00
24	Pentachlorophenol	0.154	0.132	14.3	168#	0.00
25	Phenanthrene	1.313	1.307	0.5	182#	0.00
26	Anthracene	1.201	1.185	1.3	185#	0.00
27 SURR	Fluoranthene-d10	1.087	1.083	0.4	182#	0.00
28	Fluoranthene	1.547	1.489	3.7	177#	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	191#	0.00
30	Pyrene	1.815	1.650	9.1	177#	0.00
31 S	Terphenyl-d14	0.905	0.889	1.8	190#	0.00
32	Benzo(a)anthracene	1.513	1.494	1.3	192#	0.00
33	Chrysene	1.598	1.564	2.1	185#	0.00
34	Bis(2-ethylhexyl)phthalate	0.932	0.870	6.7	183#	0.00
35 I	Perylene-d12	1.000	1.000	0.0	186#	0.00
36	Indeno(1,2,3-cd)pyrene	1.580	1.652	-4.6	196#	0.00
37	Benzo(b)fluoranthene	1.667	1.608	3.5	188#	0.00
38	Benzo(k)fluoranthene	1.657	1.654	0.2	189#	0.00
39 C	Benzo(a)pyrene	1.385	1.463	-5.6	200#	0.00
40	Dibenzo(a,h)anthracene	1.233	1.261	-2.3	190#	0.00
41	Benzo(g,h,i)perylene	1.366	1.340	1.9	181#	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051225\
 Data File : BN036989.D
 Acq On : 12 May 2025 17:55
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN051225

Quant Time: May 12 18:21:01 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 12 18:05:36 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	169	0.00
2	1,4-Dioxane	0.400	0.408	-2.0	162	0.00
3	n-Nitrosodimethylamine	0.400	0.380	5.0	157	0.00
4 S	2-Fluorophenol	0.400	0.353	11.8	137	0.00
5 S	Phenol-d6	0.400	0.366	8.5	145	0.00
6	bis(2-Chloroethyl)ether	0.400	0.435	-8.7	185	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	177	0.00
8 S	Nitrobenzene-d5	0.400	0.407	-1.7	181	0.00
9	Naphthalene	0.400	0.397	0.8	176	0.00
10	Hexachlorobutadiene	0.400	0.395	1.3	172	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.409	-2.2	187	0.00
12	2-Methylnaphthalene	0.400	0.362	9.5	165	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	181	0.00
14 S	2,4,6-Tribromophenol	0.400	0.323	19.3	144	0.00
15 S	2-Fluorobiphenyl	0.400	0.377	5.8	163	0.00
16	Acenaphthylene	0.400	0.420	-5.0	196	0.00
17	Acenaphthene	0.400	0.387	3.3	177	0.00
18	Fluorene	0.400	0.387	3.3	176	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	179	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.354	11.5	172	0.00
21	4-Bromophenyl-phenylether	0.400	0.381	4.8	175	0.00
22	Hexachlorobenzene	0.400	0.382	4.5	171	0.00
23	Atrazine	0.400	0.404	-1.0	187	0.00
24	Pentachlorophenol	0.400	0.342	14.5	168	0.00
25	Phenanthrene	0.400	0.398	0.5	182	0.00
26	Anthracene	0.400	0.395	1.3	185	0.00
27 SURR	Fluoranthene-d10	0.400	0.399	0.3	182	0.00
28	Fluoranthene	0.400	0.385	3.8	177	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	191	0.00
30	Pyrene	0.400	0.363	9.3	177	0.00
31 S	Terphenyl-d14	0.400	0.393	1.8	190	0.00
32	Benzo(a)anthracene	0.400	0.395	1.3	192	0.00
33	Chrysene	0.400	0.391	2.3	185	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.374	6.5	183	0.00
35 I	Perylene-d12	0.400	0.400	0.0	186	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.418	-4.5	196	0.00
37	Benzo(b)fluoranthene	0.400	0.386	3.5	188	0.00
38	Benzo(k)fluoranthene	0.400	0.399	0.3	189	0.00
39 C	Benzo(a)pyrene	0.400	0.423	-5.7	200	0.00
40	Dibenzo(a,h)anthracene	0.400	0.409	-2.2	190	0.00
41	Benzo(g,h,i)perylene	0.400	0.392	2.0	181	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: ALLI03

Lab Code: CHEM Case No.: Q1872 SAS No.: Q1872 SDG No.: Q1872

Instrument ID: BNA_N Calibration Date/Time: 05/08/2025 14:28

Lab File ID: BN036972.D Init. Calib. Date(s): 04/28/2025 04/28/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:35 15:12

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.559	0.538		-3.8	20.0
Fluoranthene-d10	1.037	1.049		1.2	20.0
2-Fluorophenol	1.023	1.032		0.9	20.0
Phenol-d6	1.259	1.275		1.3	20.0
Nitrobenzene-d5	0.418	0.416		-0.5	20.0
2-Fluorobiphenyl	1.933	1.961		1.4	20.0
2,4,6-Tribromophenol	0.178	0.170		-4.5	20.0
Atrazine	0.215	0.211		-1.9	20.0
Terphenyl-d14	0.944	0.862		-8.7	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050825\
 Data File : BN036972.D
 Acq On : 08 May 2025 14:28
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: May 08 15:00:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 2025
 Response via : Initial Calibration

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

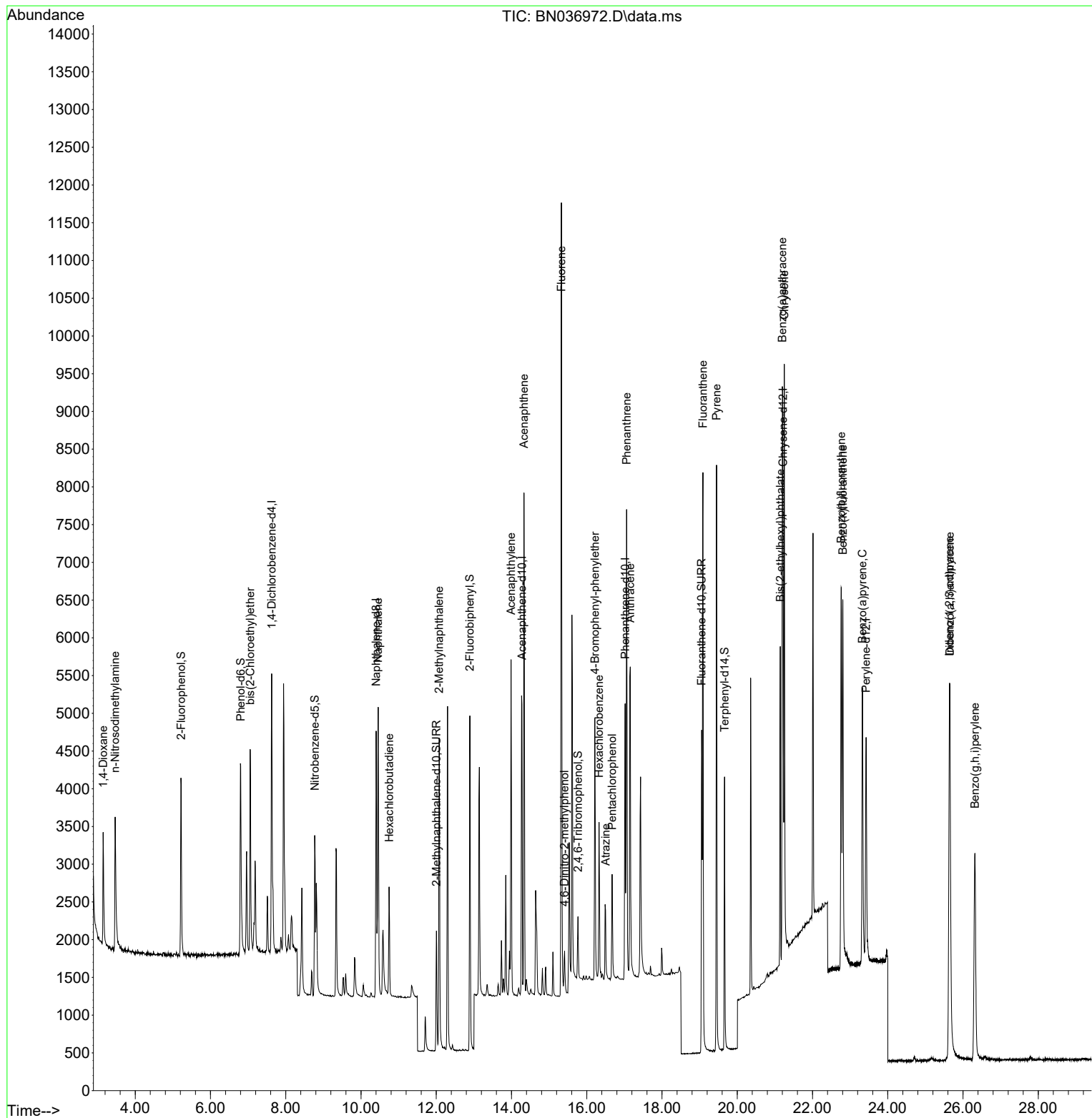
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.626	152	1755	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	4397	0.400	ng	#-0.01
13) Acenaphthene-d10	14.277	164	2406	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	4760	0.400	ng	# 0.00
29) Chrysene-d12	21.215	240	4148	0.400	ng	# 0.00
35) Perylene-d12	23.424	264	3956	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.221	112	1811	0.403	ng	0.00
5) Phenol-d6	6.802	99	2238	0.405	ng	0.00
8) Nitrobenzene-d5	8.771	82	1831	0.398	ng	-0.01
11) 2-Methylnaphthalene-d10	12.006	152	2365	0.385	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	409	0.381	ng	0.00
15) 2-Fluorobiphenyl	12.894	172	4719	0.406	ng	0.00
27) Fluoranthene-d10	19.054	212	4991	0.404	ng	0.00
31) Terphenyl-d14	19.663	244	3576	0.365	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.148	88	894	0.409	ng	90
3) n-Nitrosodimethylamine	3.466	42	1815	0.428	ng	# 94
6) bis(2-Chloroethyl)ether	7.055	93	1955	0.382	ng	98
9) Naphthalene	10.458	128	5069	0.396	ng	99
10) Hexachlorobutadiene	10.746	225	1085	0.392	ng	# 98
12) 2-Methylnaphthalene	12.077	142	3196	0.386	ng	98
16) Acenaphthylene	13.989	152	4531	0.385	ng	100
17) Acenaphthene	14.331	154	3025	0.392	ng	100
18) Fluorene	15.325	166	3969	0.393	ng	99
20) 4,6-Dinitro-2-methylph...	15.411	198	466	0.370	ng	# 78
21) 4-Bromophenyl-phenylether	16.214	248	1207	0.380	ng	# 64
22) Hexachlorobenzene	16.326	284	1332	0.383	ng	96
23) Atrazine	16.500	200	1005	0.392	ng	97
24) Pentachlorophenol	16.674	266	700	0.375	ng	97
25) Phenanthrene	17.058	178	6135	0.390	ng	100
26) Anthracene	17.158	178	5413	0.381	ng	100
28) Fluoranthene	19.087	202	7099	0.403	ng	99
30) Pyrene	19.449	202	7087	0.355	ng	99
32) Benzo(a)anthracene	21.198	228	5923	0.388	ng	98
33) Chrysene	21.251	228	6833	0.415	ng	99
34) Bis(2-ethylhexyl)phtha...	21.144	149	3730	0.429	ng	99
36) Indeno(1,2,3-cd)pyrene	25.637	276	6491	0.402	ng	98
37) Benzo(b)fluoranthene	22.760	252	6386	0.384	ng	99
38) Benzo(k)fluoranthene	22.804	252	6411	0.383	ng	97
39) Benzo(a)pyrene	23.328	252	5394	0.394	ng	97
40) Dibenzo(a,h)anthracene	25.652	278	4894	0.385	ng	99
41) Benzo(g,h,i)perylene	26.316	276	5674	0.402	ng	99

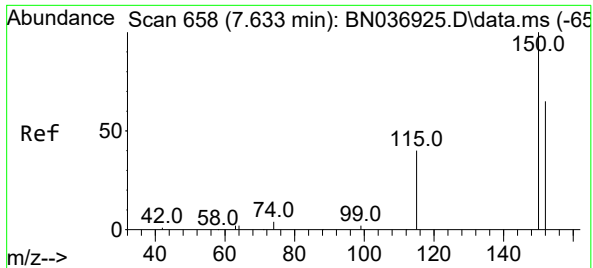
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050825\
Data File : BN036972.D
Acq On : 08 May 2025 14:28
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: May 08 15:00:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

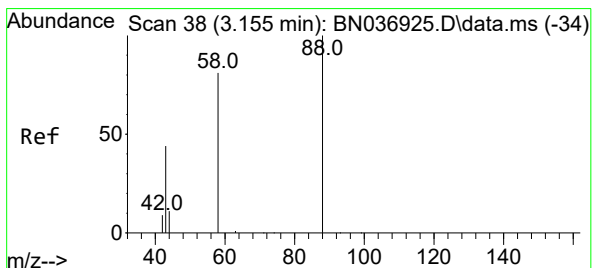
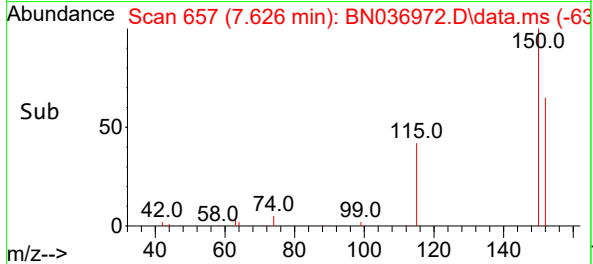
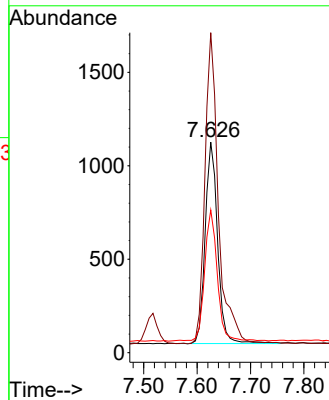
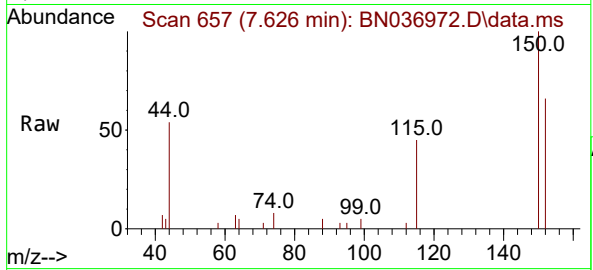




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.626 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

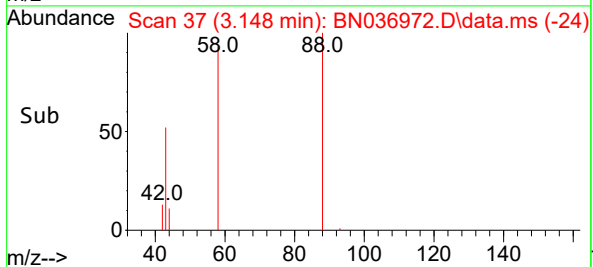
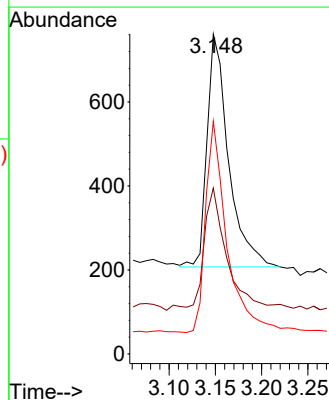
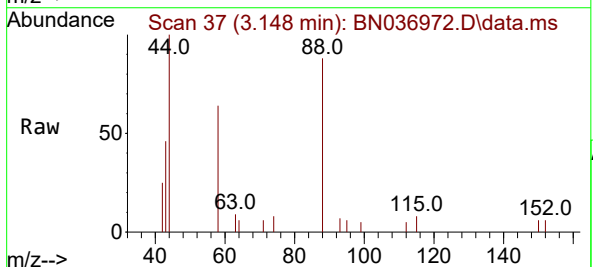
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1755
Ion Ratio Lower Upper
152 100
150 151.9 121.1 181.7
115 67.8 51.8 77.6

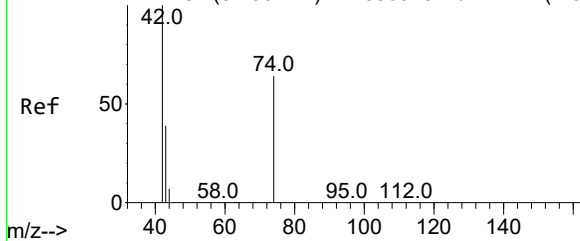


#2
1,4-Dioxane
Concen: 0.409 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion: 88 Resp: 894
Ion Ratio Lower Upper
88 100
43 56.4 37.9 56.9
58 89.9 65.8 98.6



Abundance Scan 81 (3.466 min): BN036925.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 0.428 ng

RT: 3.466 min Scan# 81

Delta R.T. -0.000 min

Lab File: BN036972.D

Acq: 08 May 2025 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 1815

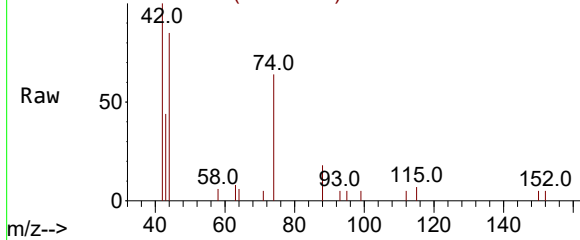
Ion Ratio Lower Upper

42 100

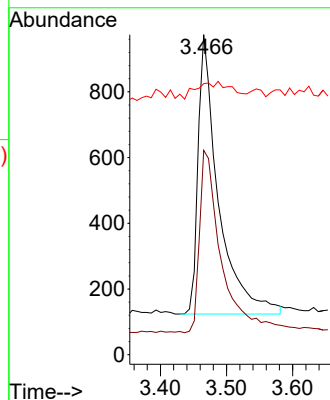
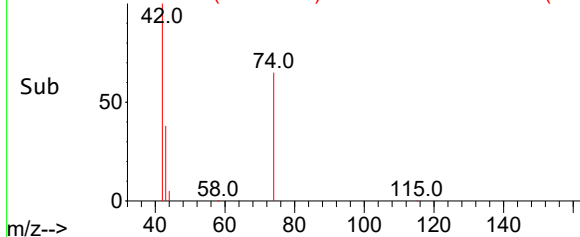
74 70.0 59.9 89.9

44 5.5 7.5 11.3#

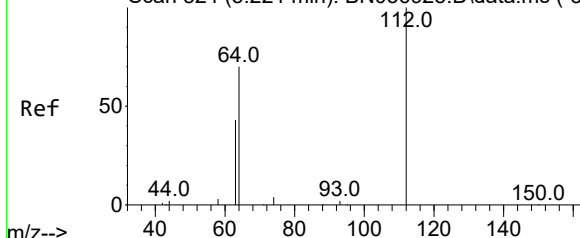
Abundance Scan 81 (3.466 min): BN036972.D\data.ms



Abundance Scan 81 (3.466 min): BN036972.D\data.ms (-60)



Abundance Scan 324 (5.221 min): BN036925.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.403 ng

RT: 5.221 min Scan# 324

Delta R.T. -0.000 min

Lab File: BN036972.D

Acq: 08 May 2025 14:28

Tgt Ion: 112 Resp: 1811

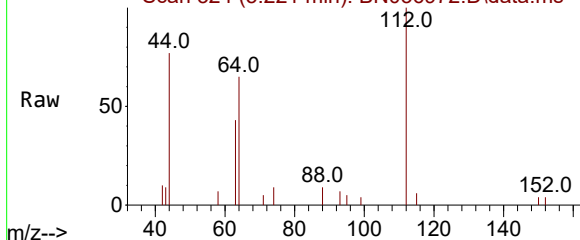
Ion Ratio Lower Upper

112 100

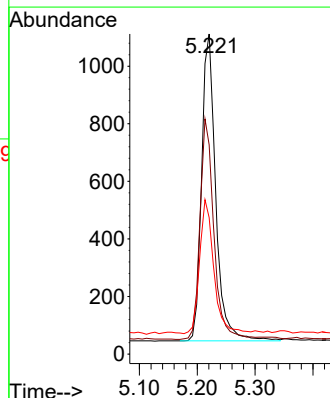
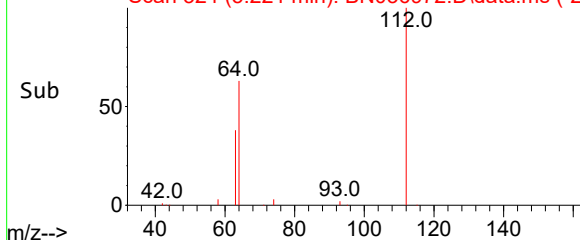
64 70.8 55.7 83.5

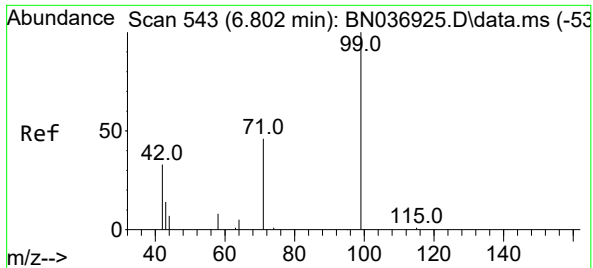
63 44.0 33.9 50.9

Abundance Scan 324 (5.221 min): BN036972.D\data.ms



Abundance Scan 324 (5.221 min): BN036972.D\data.ms (-29)

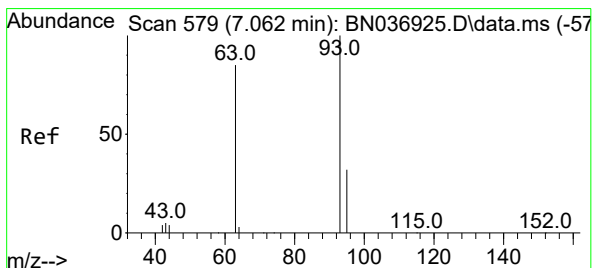
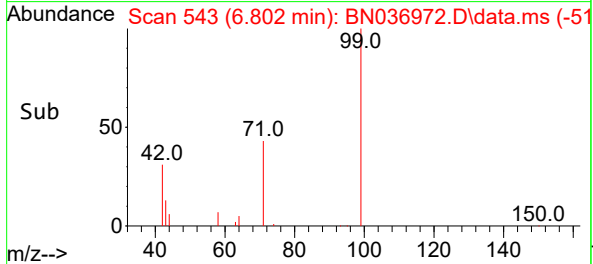
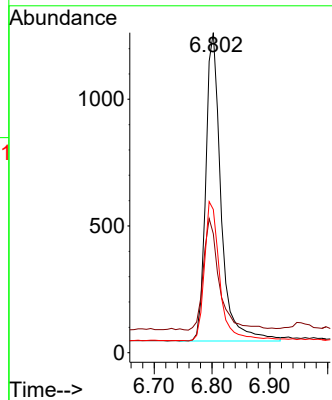
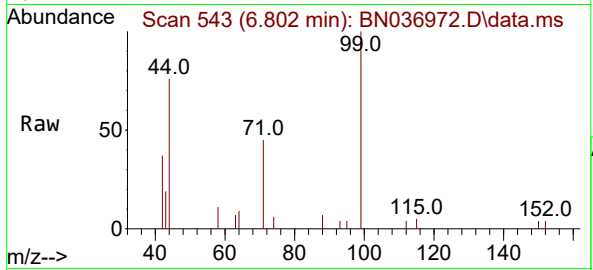




#5
Phenol-d6
Concen: 0.405 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.000 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

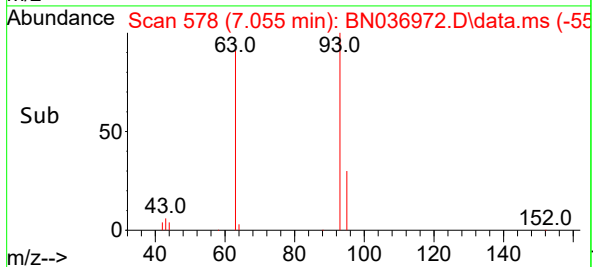
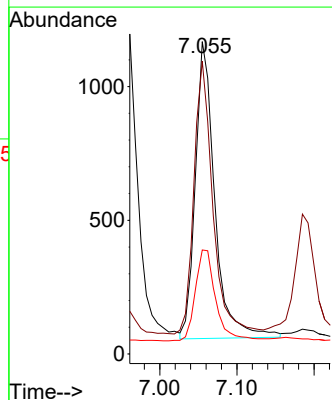
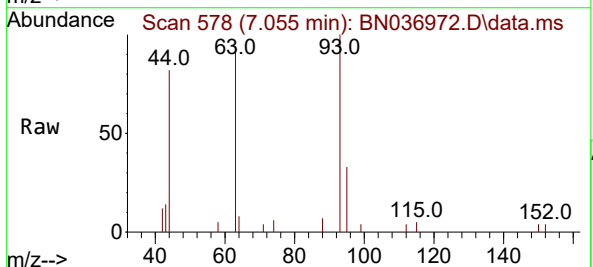
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

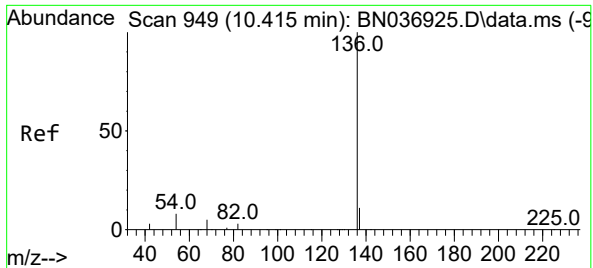
Tgt Ion: 99 Resp: 2238
Ion Ratio Lower Upper
99 100
42 38.1 29.6 44.4
71 46.5 36.0 54.0



#6
bis(2-Chloroethyl)ether
Concen: 0.382 ng
RT: 7.055 min Scan# 578
Delta R.T. -0.007 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion: 93 Resp: 1955
Ion Ratio Lower Upper
93 100
63 88.4 69.0 103.6
95 32.1 25.4 38.0

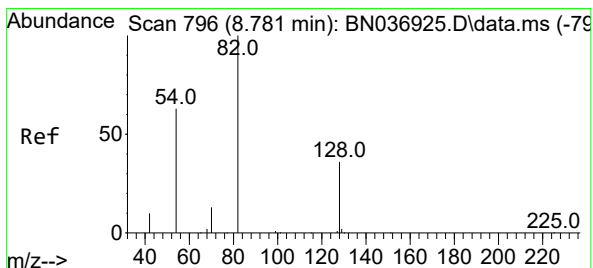
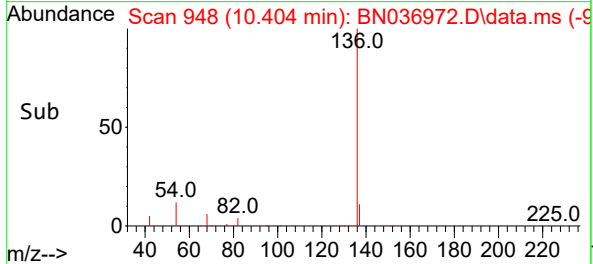
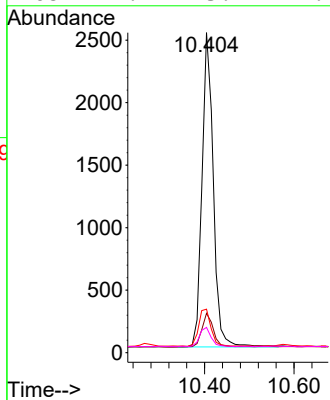
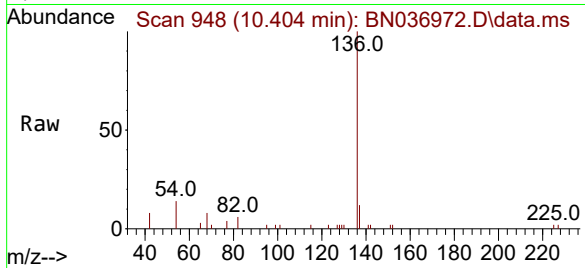




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

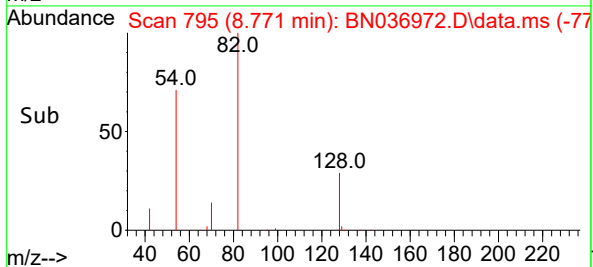
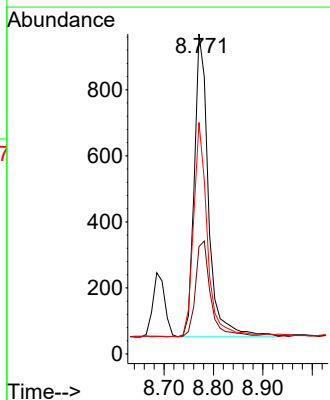
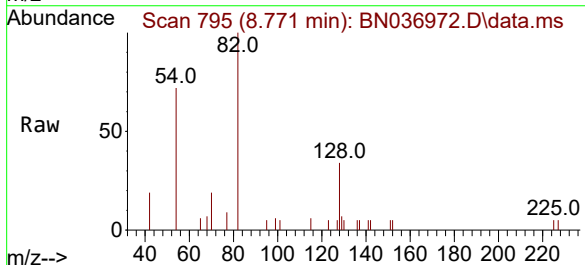
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

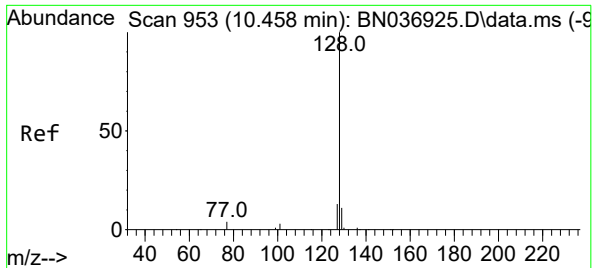
Tgt Ion:136 Resp: 4397
Ion Ratio Lower Upper
136 100
137 12.3 9.7 14.5
54 13.6 8.0 12.0#
68 7.9 5.1 7.7#



#8
Nitrobenzene-d5
Concen: 0.398 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.011 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion: 82 Resp: 1831
Ion Ratio Lower Upper
82 100
128 33.5 30.7 46.1
54 72.3 52.1 78.1

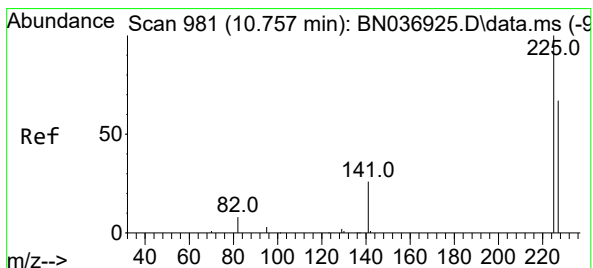
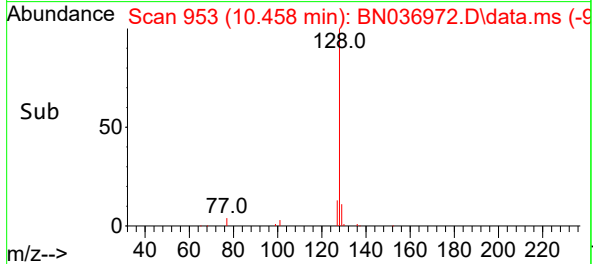
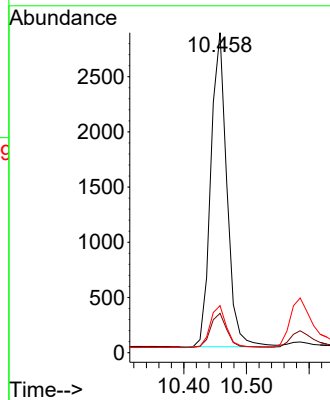
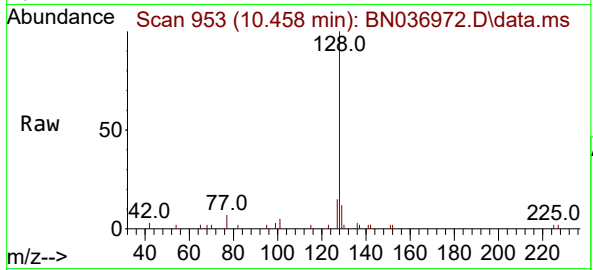




#9
Naphthalene
Concen: 0.396 ng
RT: 10.458 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

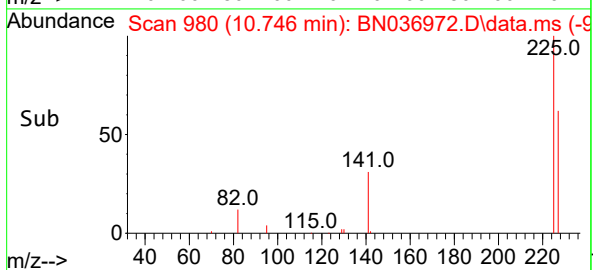
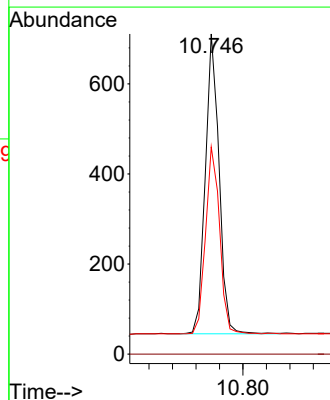
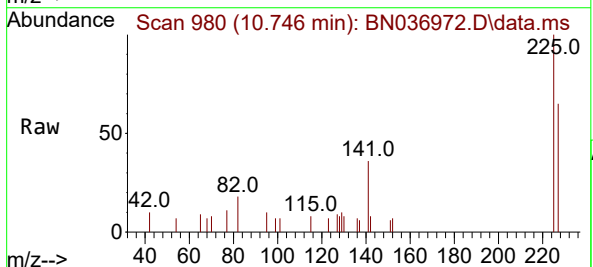
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

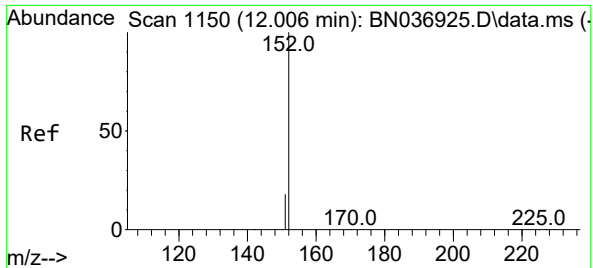
Tgt Ion:	128	Resp:	5069
Ion	Ratio	Lower	Upper
128	100		
129	12.3	9.8	14.6
127	14.7	11.4	17.2



#10
Hexachlorobutadiene
Concen: 0.392 ng
RT: 10.746 min Scan# 980
Delta R.T. -0.011 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion:	225	Resp:	1085
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	52.2	78.4

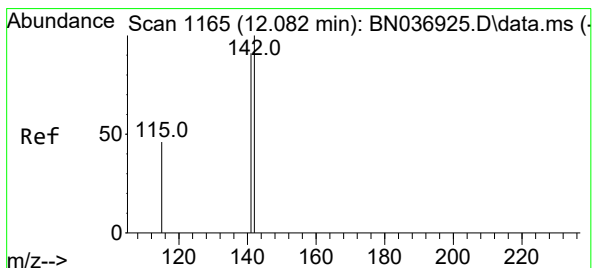
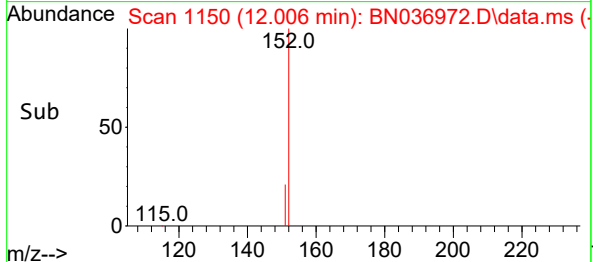
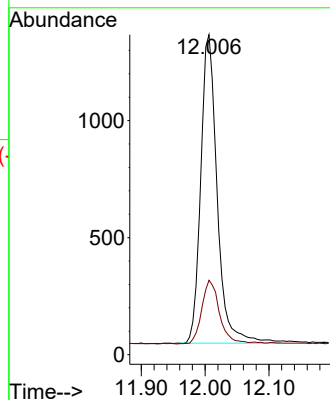
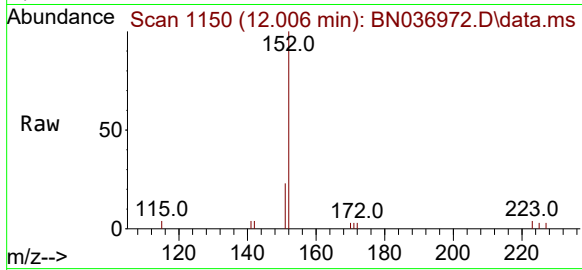




#11
2-Methylnaphthalene-d10
Concen: 0.385 ng
RT: 12.006 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

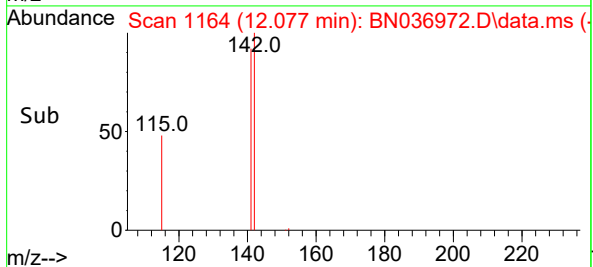
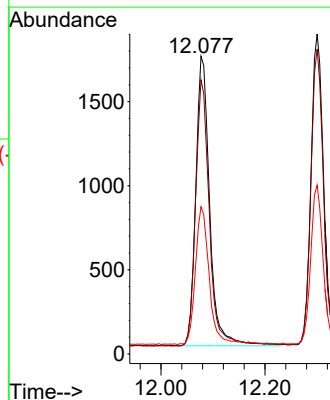
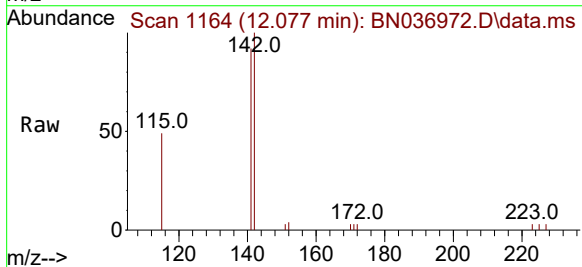
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

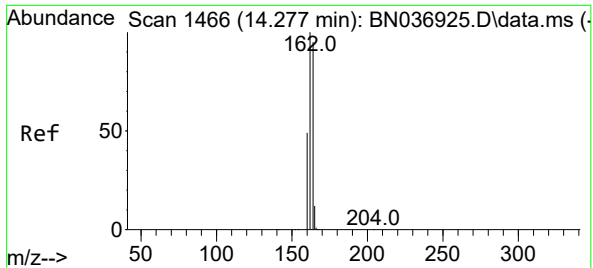
Tgt Ion:152 Resp: 2365
Ion Ratio Lower Upper
152 100
151 22.2 16.9 25.3



#12
2-Methylnaphthalene
Concen: 0.386 ng
RT: 12.077 min Scan# 1164
Delta R.T. -0.005 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion:142 Resp: 3196
Ion Ratio Lower Upper
142 100
141 92.1 72.8 109.2
115 49.5 38.2 57.4

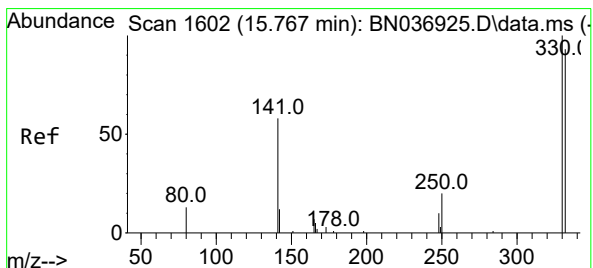
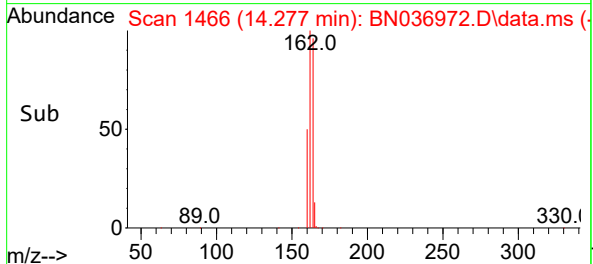
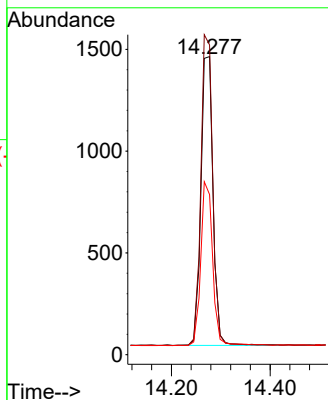
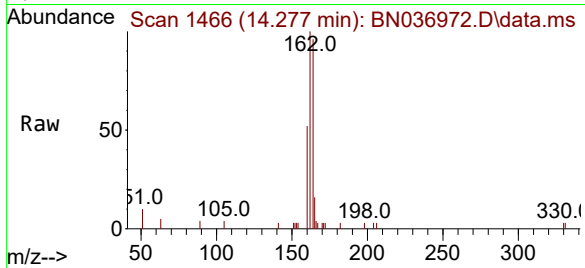




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

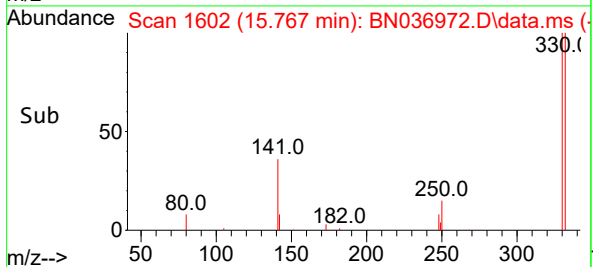
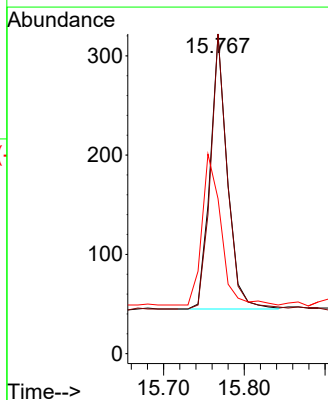
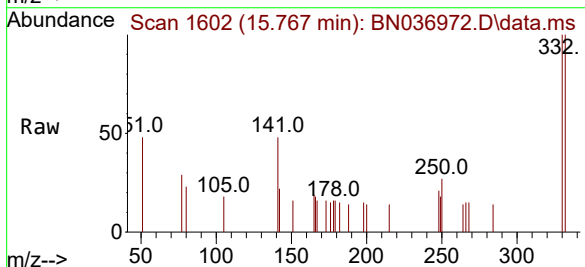
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

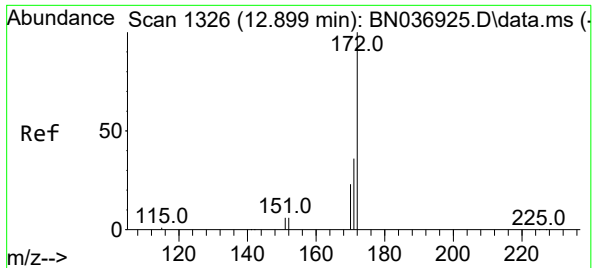
Tgt Ion	164	162	160
Resp:	2406		
Ion Ratio	100	104.0	53.8
Lower		83.8	42.0
Upper		125.8	63.0



#14
2,4,6-Tribromophenol
Concen: 0.381 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion	330	332	141
Resp:	409		
Ion Ratio	100	98.8	60.1
Lower		76.3	45.4
Upper		114.5	68.2

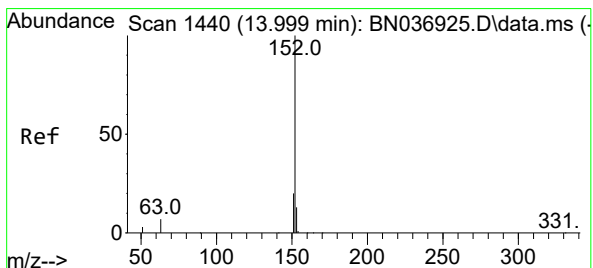
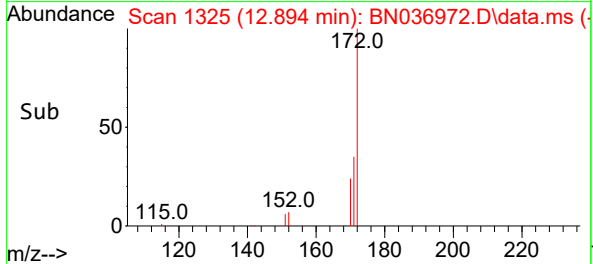
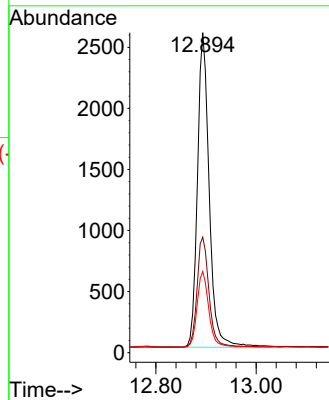
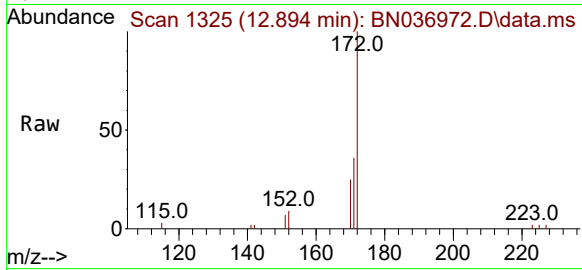




#15
2-Fluorobiphenyl
Concen: 0.406 ng
RT: 12.894 min Scan# 1439
Delta R.T. -0.005 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

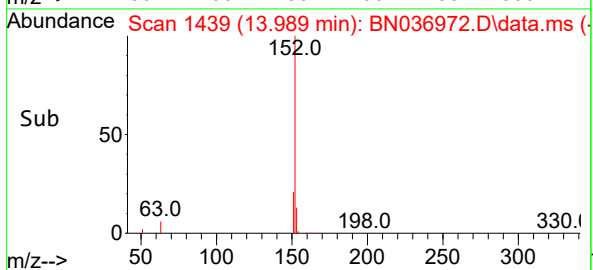
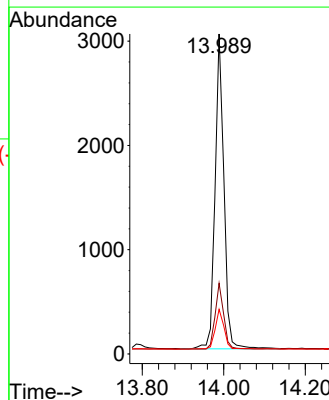
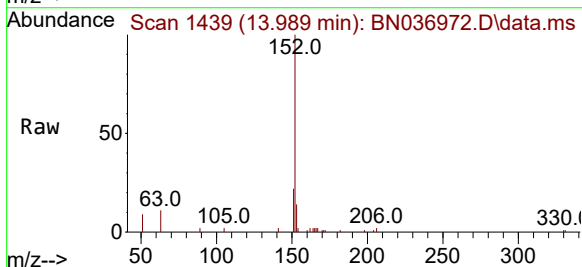
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

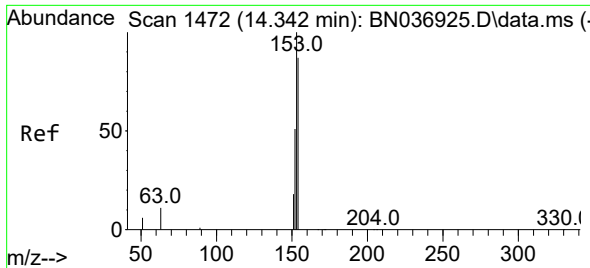
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.4	44.0
170	25.3	19.4	29.0



#16
Acenaphthylene
Concen: 0.385 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.0	24.0
153	12.8	10.2	15.2

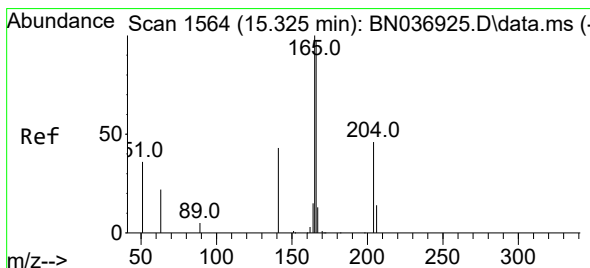
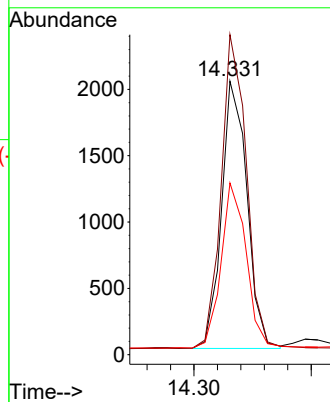
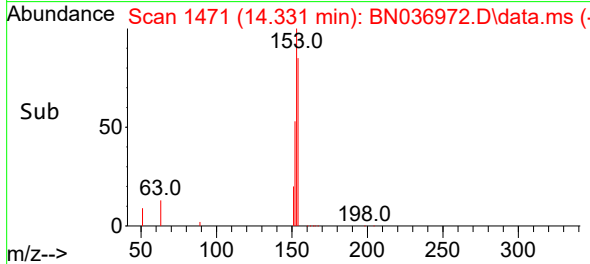
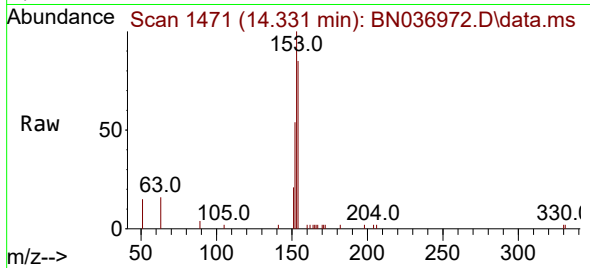




#17
Acenaphthene
Concen: 0.392 ng
RT: 14.331 min Scan# 1471
Delta R.T. -0.011 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

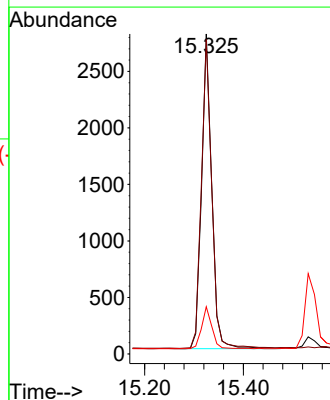
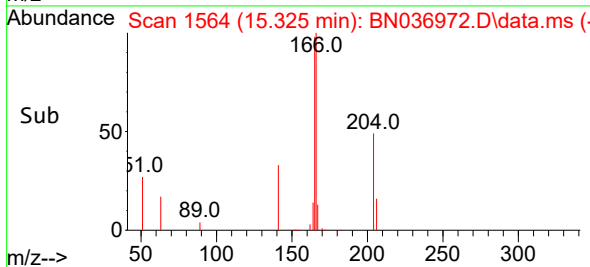
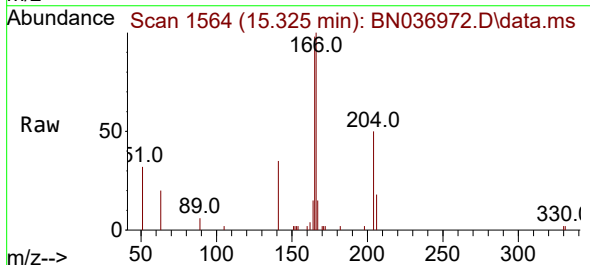
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

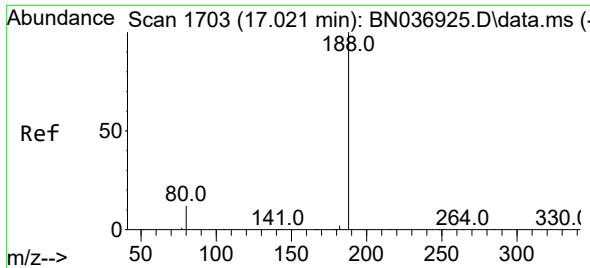
Tgt Ion:154 Resp: 3025
Ion Ratio Lower Upper
154 100
153 117.0 93.4 140.2
152 62.0 49.5 74.3



#18
Fluorene
Concen: 0.393 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion:166 Resp: 3969
Ion Ratio Lower Upper
166 100
165 100.2 80.8 121.2
167 13.7 10.8 16.2

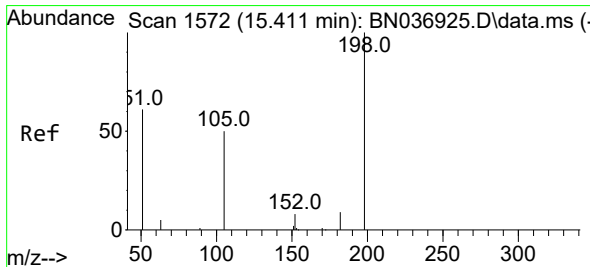
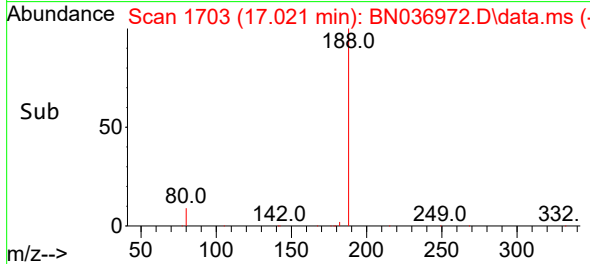
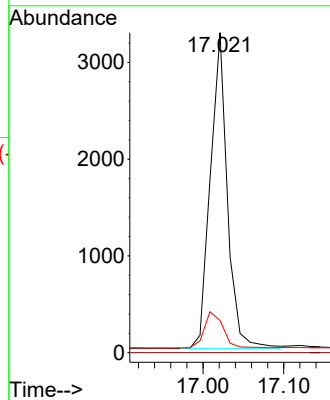
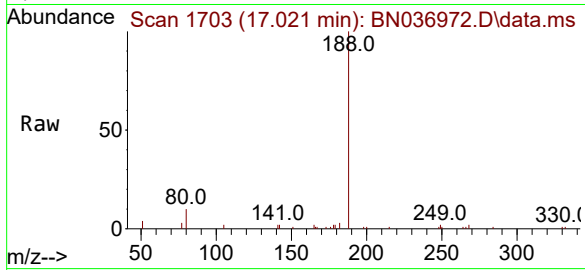




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

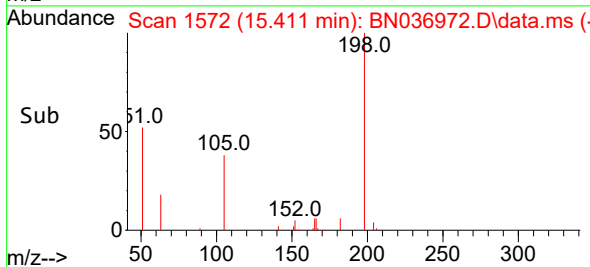
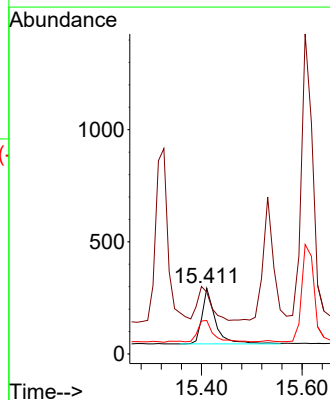
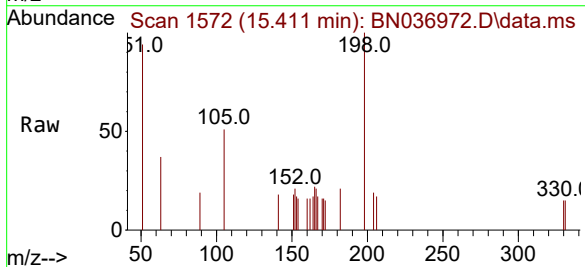
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

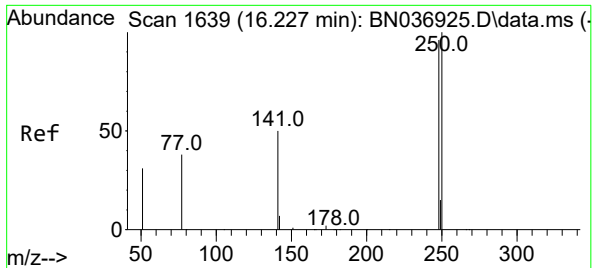
Tgt Ion:188 Resp: 4760
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.1 10.7 16.1#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.370 ng
RT: 15.411 min Scan# 1572
Delta R.T. -0.000 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion:198 Resp: 466
Ion Ratio Lower Upper
198 100
51 94.2 97.9 146.9#
105 50.9 50.0 75.0

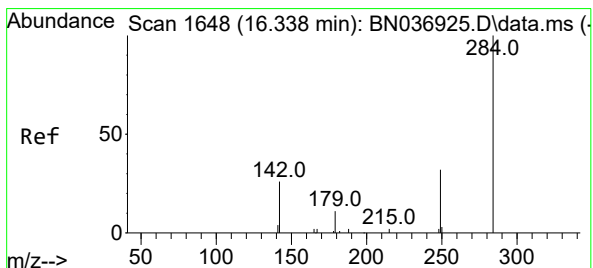
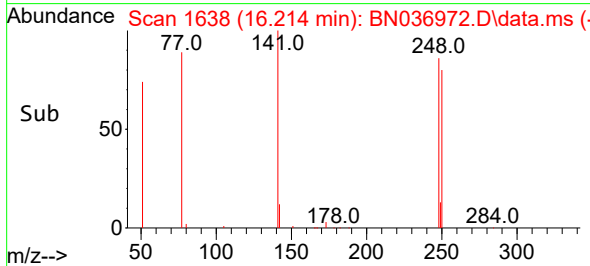
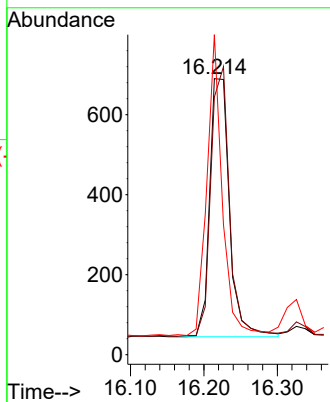
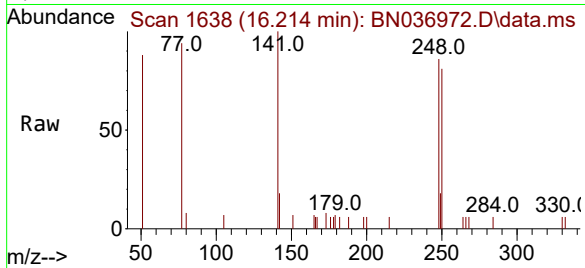




#21
4-Bromophenyl-phenylether
Concen: 0.380 ng
RT: 16.214 min Scan# 1638
Delta R.T. -0.012 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

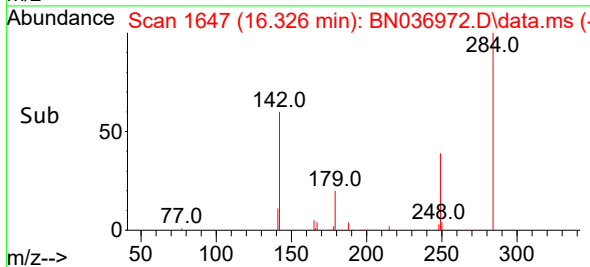
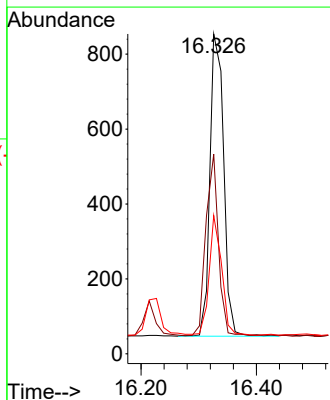
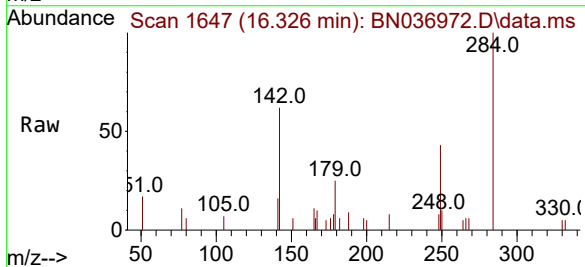
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

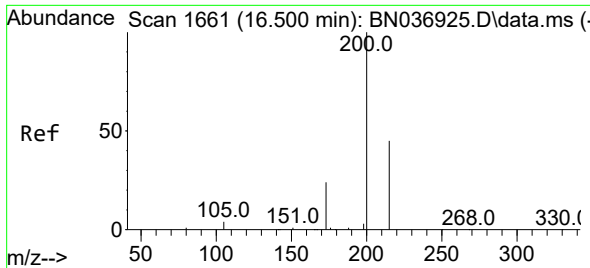
Tgt Ion:248 Resp: 1207
Ion Ratio Lower Upper
248 100
250 93.3 83.7 125.5
141 115.9 43.8 65.8#



#22
Hexachlorobenzene
Concen: 0.383 ng
RT: 16.326 min Scan# 1647
Delta R.T. -0.012 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion:284 Resp: 1332
Ion Ratio Lower Upper
284 100
142 54.9 40.0 60.0
249 35.7 28.2 42.2

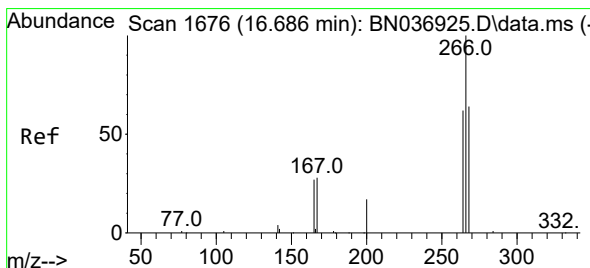
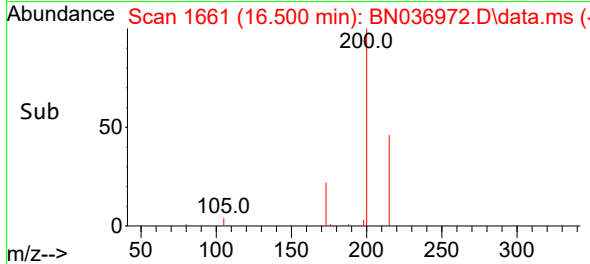
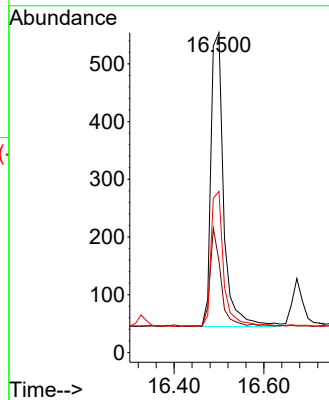
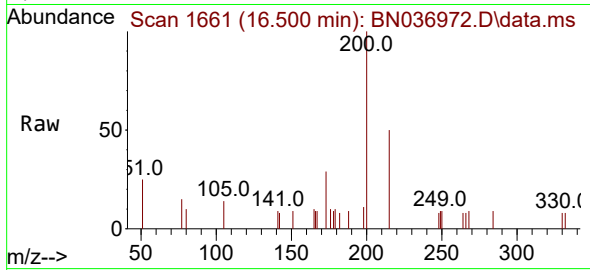




#23
Atrazine
Concen: 0.392 ng
RT: 16.500 min Scan# 1661
Delta R.T. -0.000 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

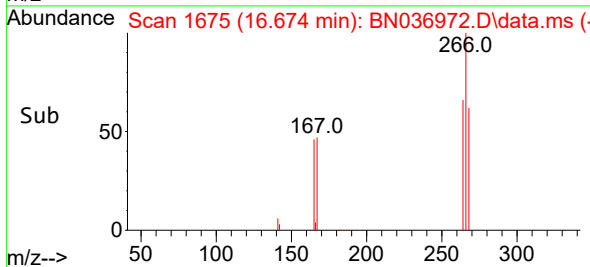
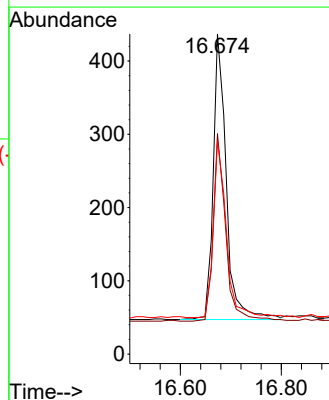
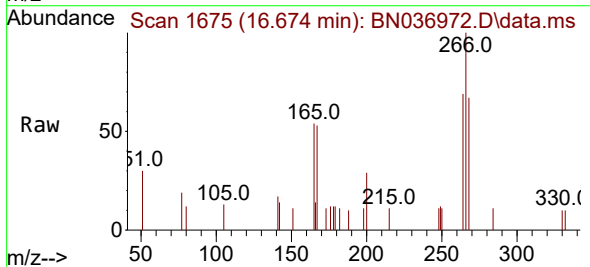
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

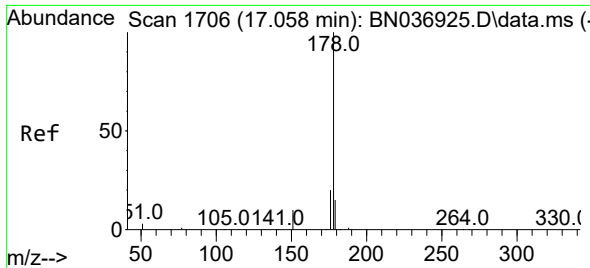
Tgt Ion	Ratio	Lower	Upper
200	100		
173	28.7	22.4	33.6
215	50.4	38.6	57.8



#24
Pentachlorophenol
Concen: 0.375 ng
RT: 16.674 min Scan# 1675
Delta R.T. -0.012 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.6	49.9	74.9
268	61.4	52.2	78.4

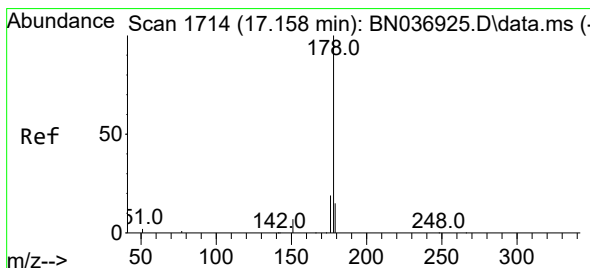
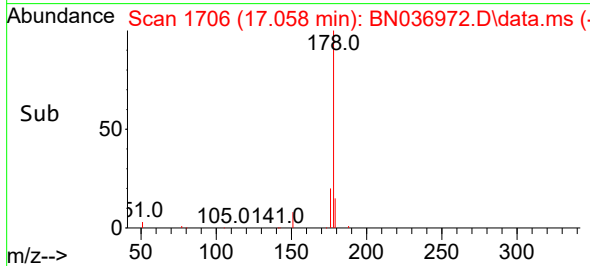
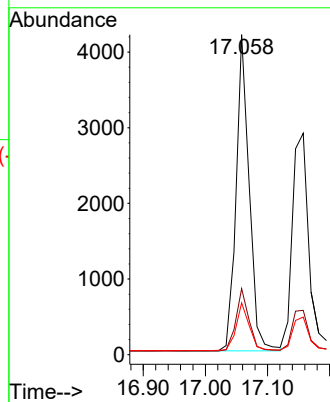
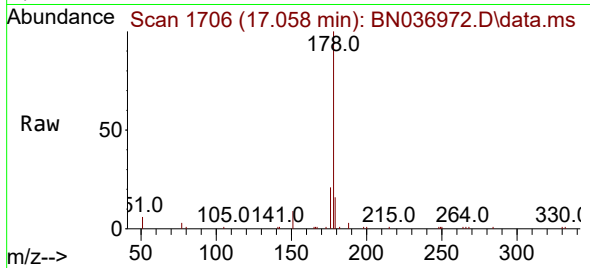




#25
Phenanthrene
Concen: 0.390 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

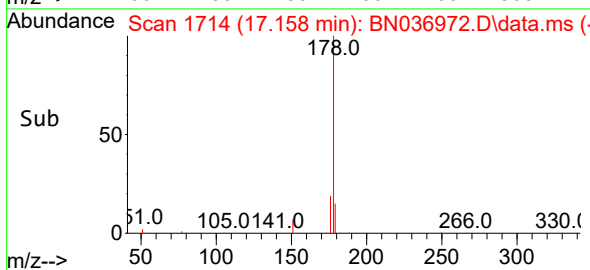
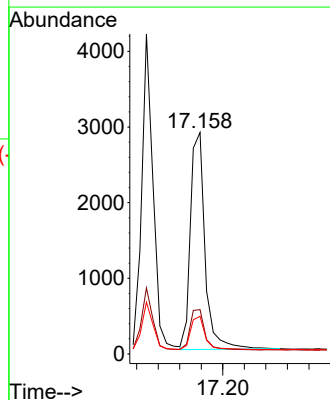
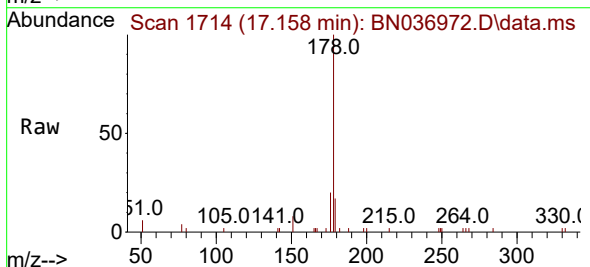
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

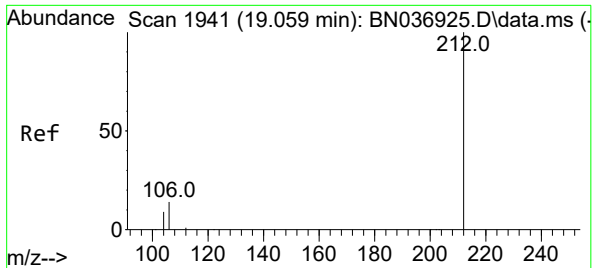
Tgt Ion:178 Resp: 6135
Ion Ratio Lower Upper
178 100
176 19.8 15.7 23.5
179 15.6 12.4 18.6



#26
Anthracene
Concen: 0.381 ng
RT: 17.158 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion:178 Resp: 5413
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.4 12.1 18.1

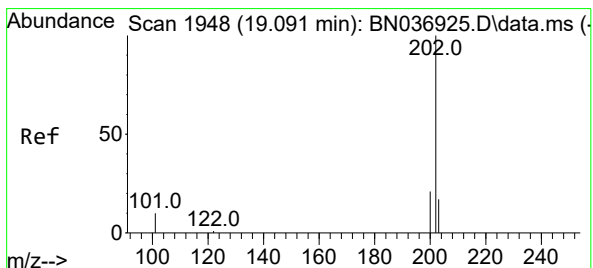
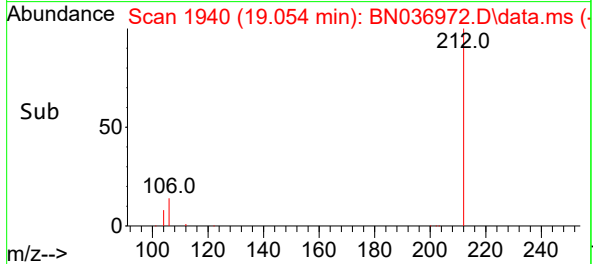
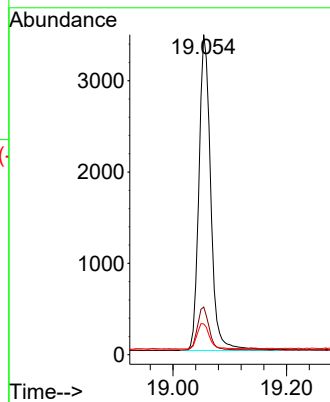
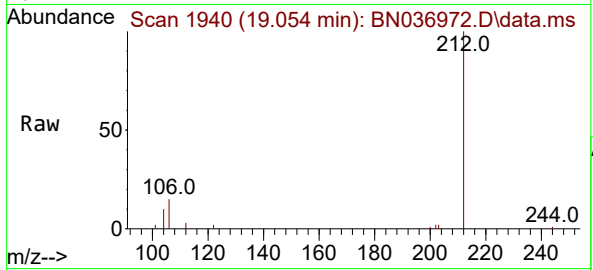




#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 19.054 min Scan# 1940
Delta R.T. -0.005 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

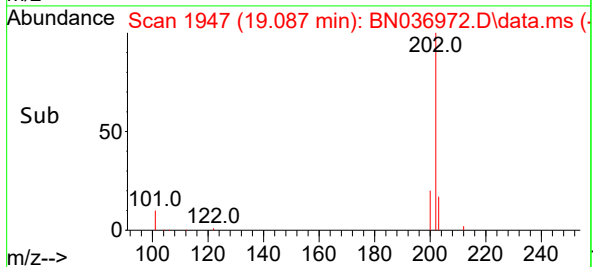
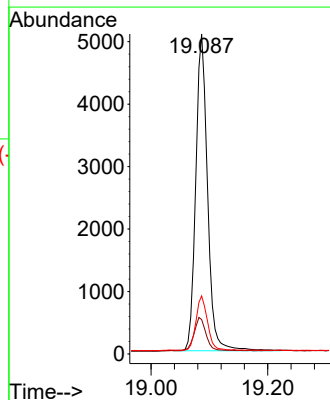
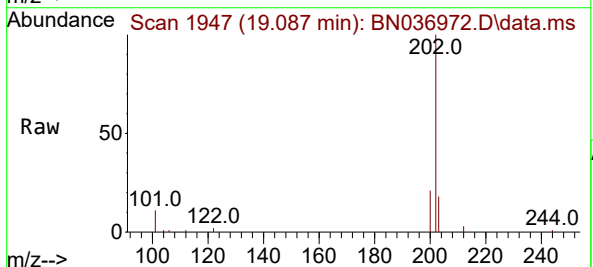
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

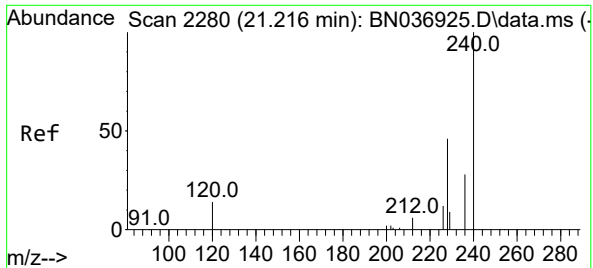
Tgt Ion:212 Resp: 4991
Ion Ratio Lower Upper
212 100
106 13.4 11.6 17.4
104 8.3 7.0 10.4



#28
Fluoranthene
Concen: 0.403 ng
RT: 19.087 min Scan# 1947
Delta R.T. -0.005 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion:202 Resp: 7099
Ion Ratio Lower Upper
202 100
101 10.8 8.5 12.7
203 16.8 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.215 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036972.D

Acq: 08 May 2025 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

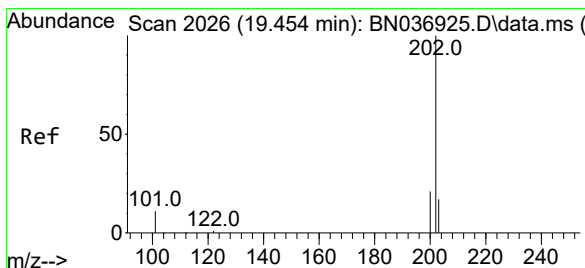
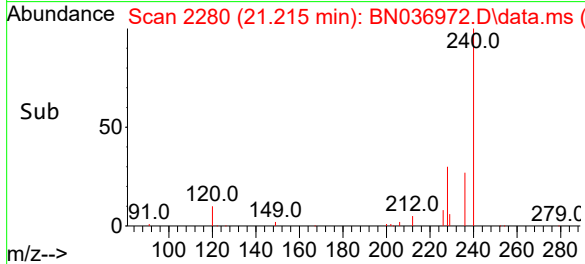
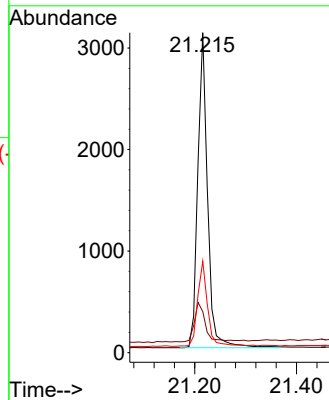
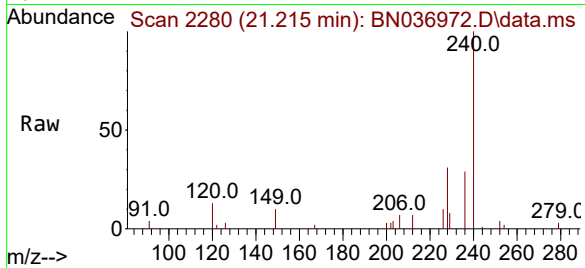
Tgt Ion:240 Resp: 4148

Ion Ratio Lower Upper

240 100

120 12.9 14.1 21.1#

236 28.6 23.8 35.8



#30

Pyrene

Concen: 0.355 ng

RT: 19.449 min Scan# 2025

Delta R.T. -0.005 min

Lab File: BN036972.D

Acq: 08 May 2025 14:28

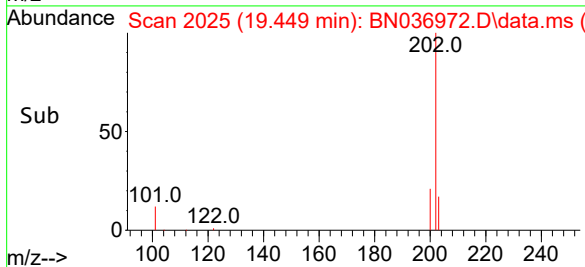
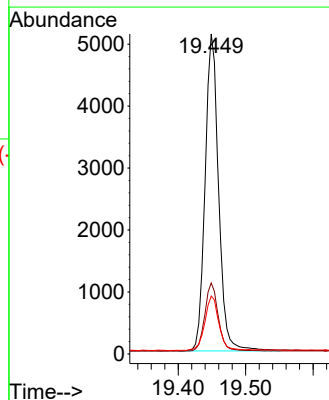
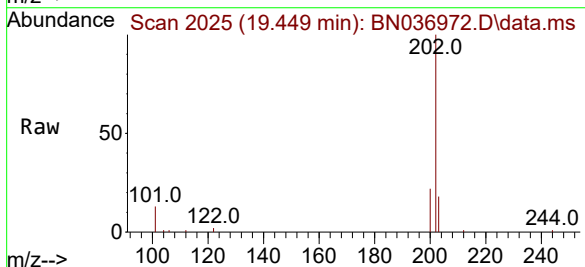
Tgt Ion:202 Resp: 7087

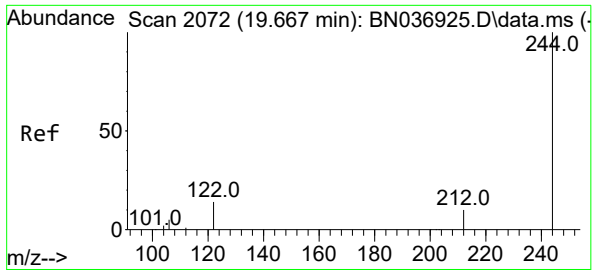
Ion Ratio Lower Upper

202 100

200 21.5 17.0 25.6

203 18.0 14.0 21.0

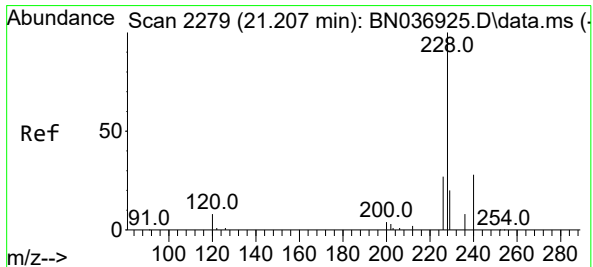
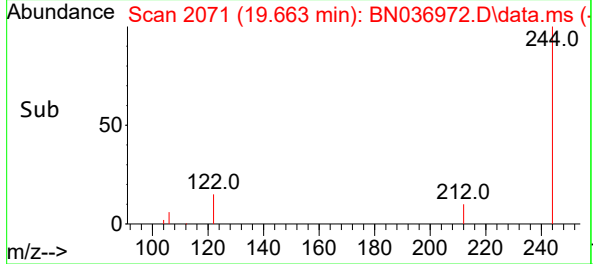
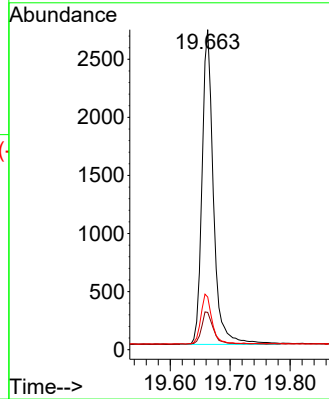
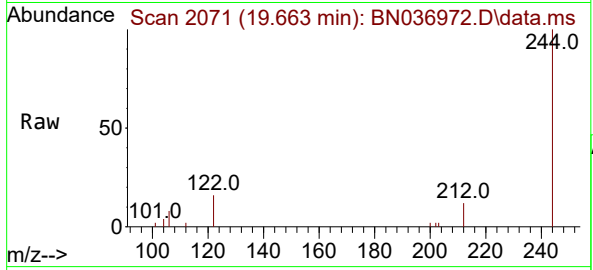




#31
Terphenyl-d14
Concen: 0.365 ng
RT: 19.663 min Scan# 2071
Delta R.T. -0.005 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

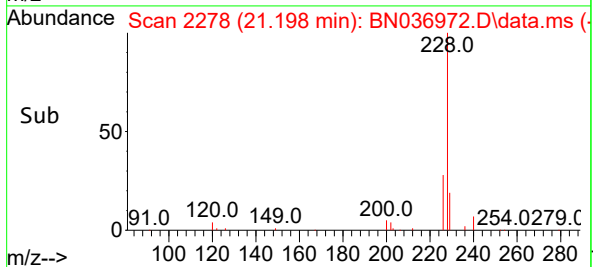
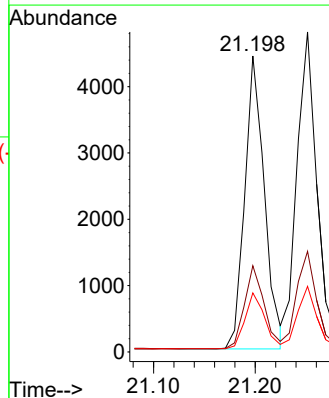
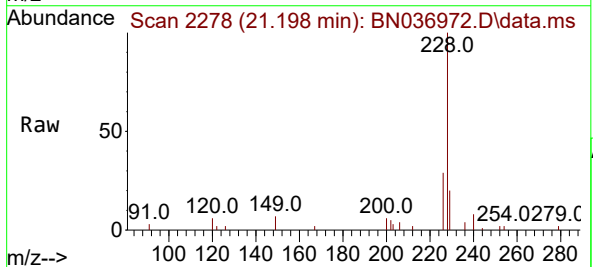
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

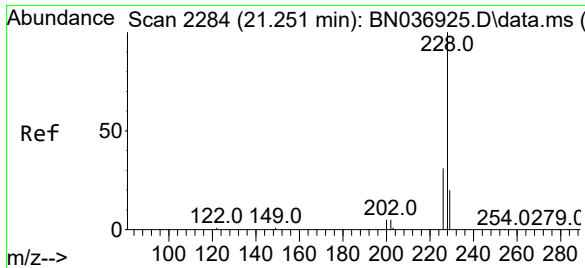
Tgt Ion:244 Resp: 3576
Ion Ratio Lower Upper
244 100
212 11.7 9.6 14.4
122 16.4 12.7 19.1



#32
Benzo(a)anthracene
Concen: 0.388 ng
RT: 21.198 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion:228 Resp: 5923
Ion Ratio Lower Upper
228 100
226 29.1 22.2 33.4
229 19.9 16.4 24.6

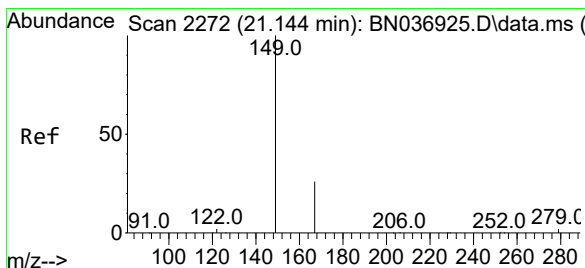
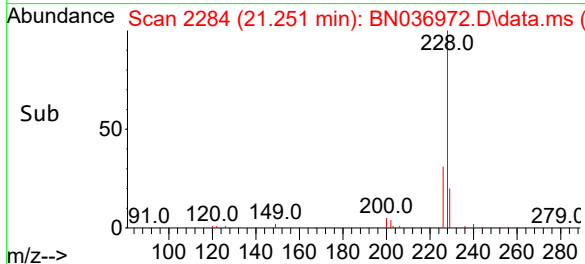
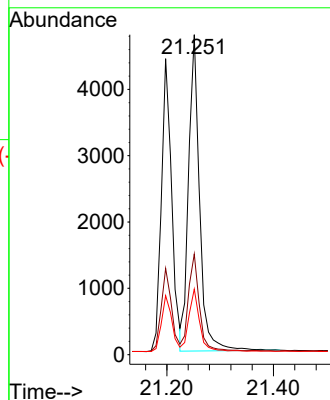
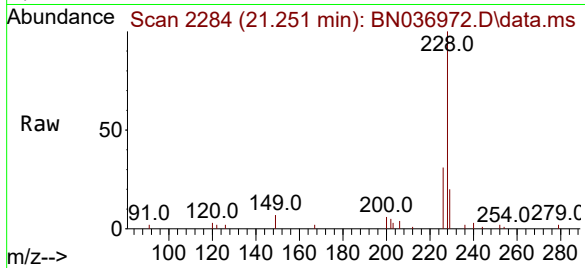




#33
Chrysene
Concen: 0.415 ng
RT: 21.251 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

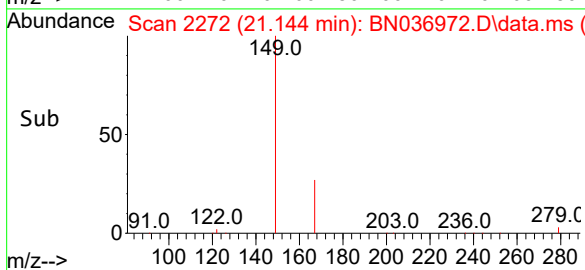
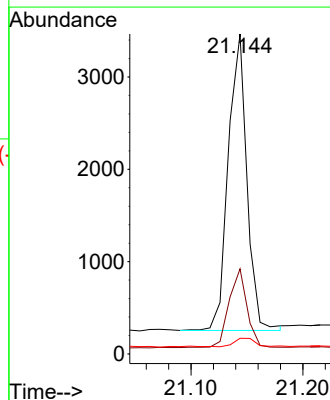
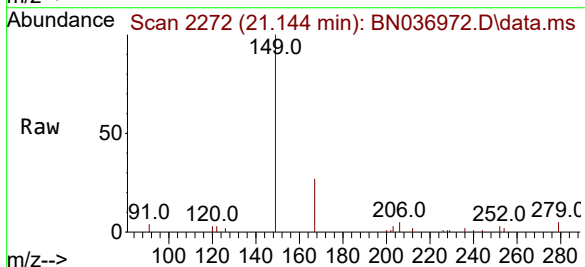
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

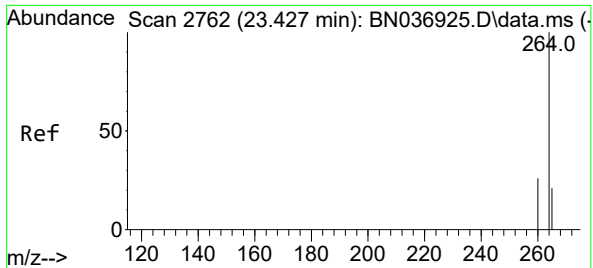
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	25.5	38.3
229	20.5	16.5	24.7



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.429 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.5	21.0	31.6
279	3.3	2.7	4.1

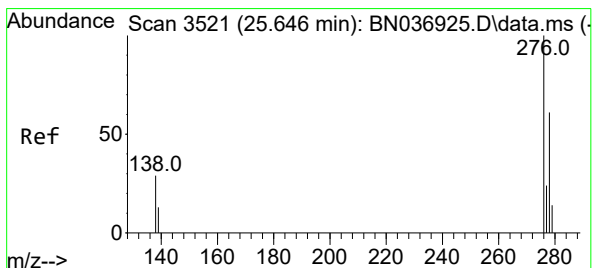
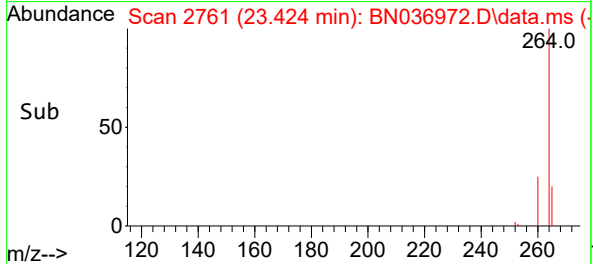
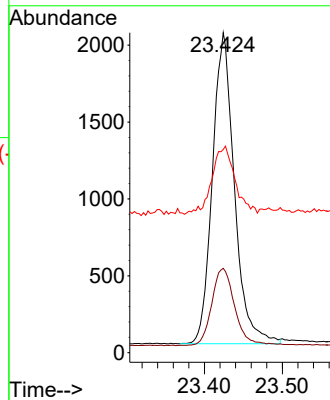
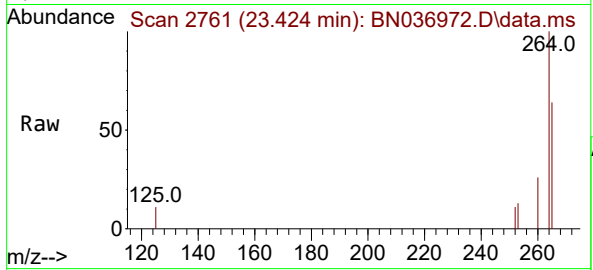




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.424 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

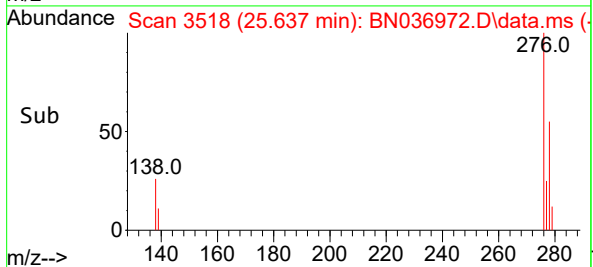
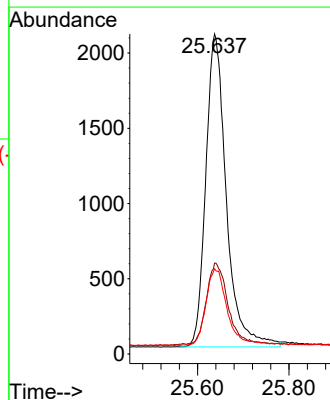
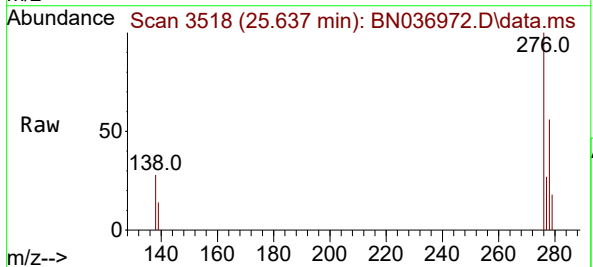
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

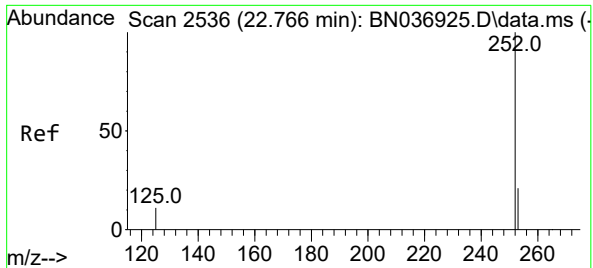
Tgt Ion:264 Resp: 3956
Ion Ratio Lower Upper
264 100
260 26.4 22.2 33.2
265 63.5 65.8 98.6#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.402 ng
RT: 25.637 min Scan# 3518
Delta R.T. -0.009 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion:276 Resp: 6491
Ion Ratio Lower Upper
276 100
138 26.7 23.0 34.6
277 24.7 20.0 30.0

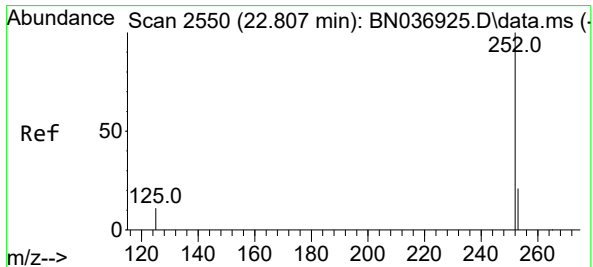
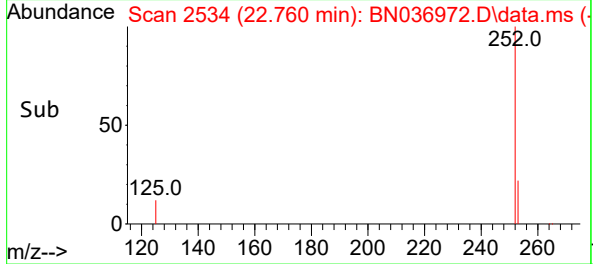
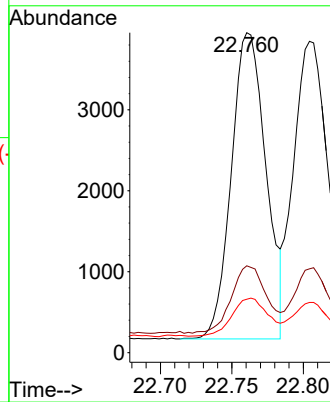
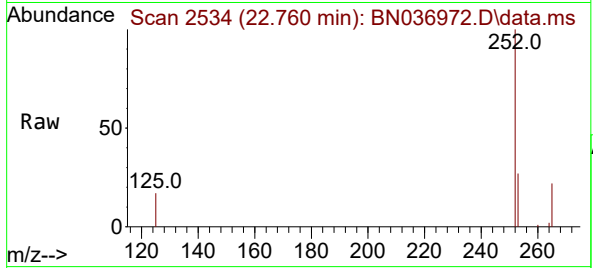




#37
Benzo(b)fluoranthene
Concen: 0.384 ng
RT: 22.760 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

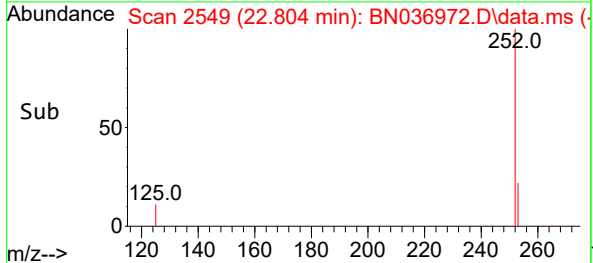
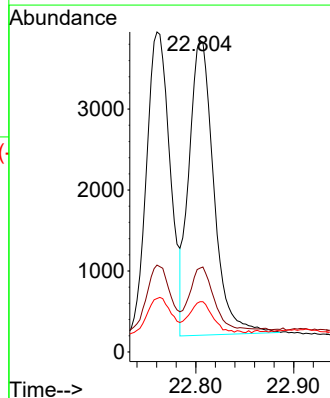
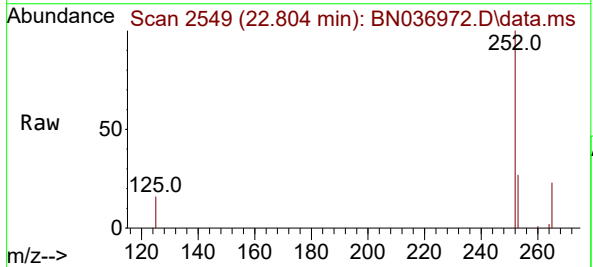
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

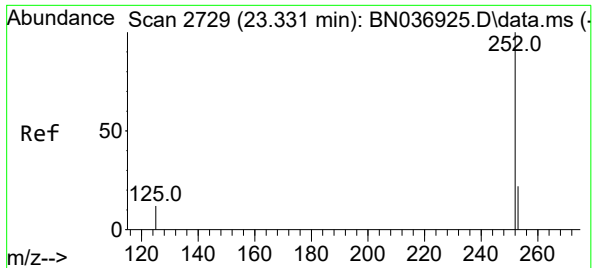
Tgt Ion:252 Resp: 6386
Ion Ratio Lower Upper
252 100
253 27.1 22.1 33.1
125 16.7 14.2 21.2



#38
Benzo(k)fluoranthene
Concen: 0.383 ng
RT: 22.804 min Scan# 2549
Delta R.T. -0.003 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion:252 Resp: 6411
Ion Ratio Lower Upper
252 100
253 26.9 22.8 34.2
125 16.1 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.394 ng

RT: 23.328 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036972.D

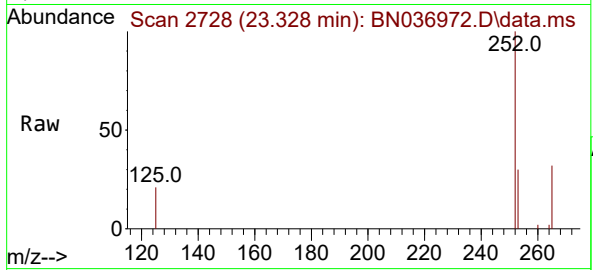
Acq: 08 May 2025 14:28

Instrument :

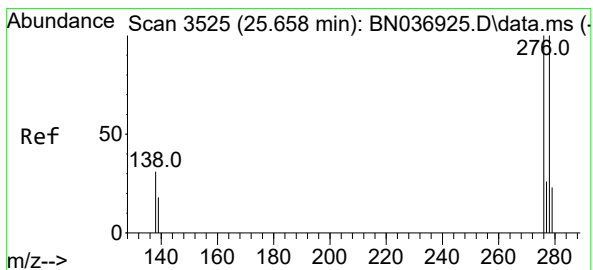
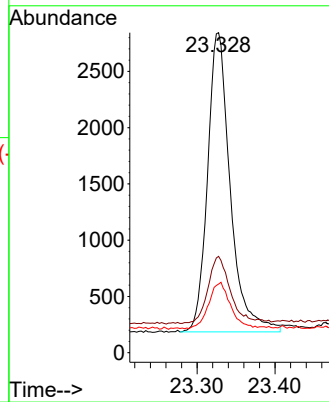
BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:	252	Resp:	5394
Ion Ratio	Lower	Upper	
252	100		
253	30.1	25.9	38.9
125	21.4	17.4	26.0



#40

Dibenzo(a,h)anthracene

Concen: 0.385 ng

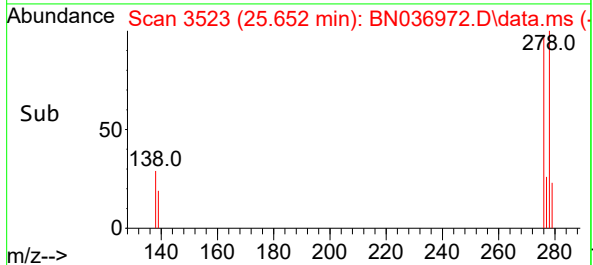
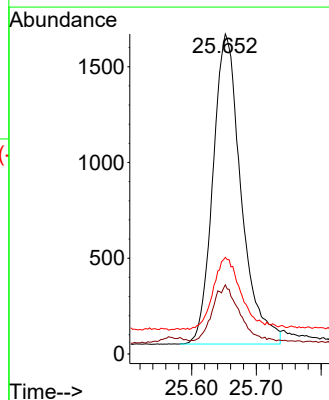
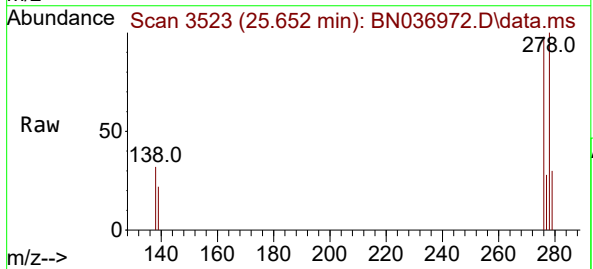
RT: 25.652 min Scan# 3523

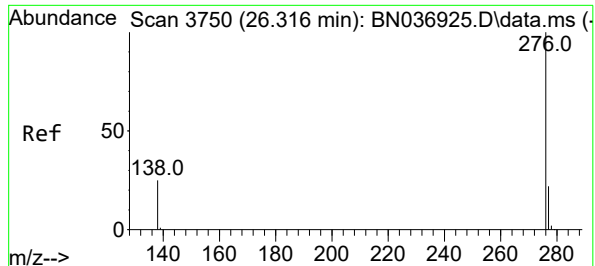
Delta R.T. -0.006 min

Lab File: BN036972.D

Acq: 08 May 2025 14:28

Tgt Ion:	278	Resp:	4894
Ion Ratio	Lower	Upper	
278	100		
139	21.6	17.4	26.2
279	30.2	24.9	37.3





#41

Benzo(g,h,i)perylene

Concen: 0.402 ng

RT: 26.316 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN036972.D

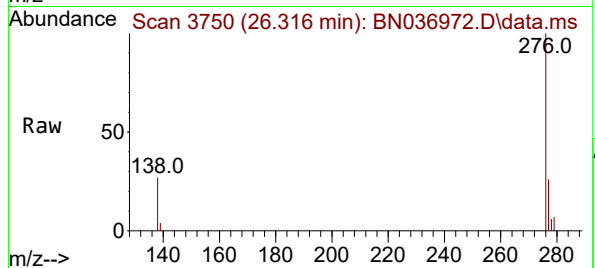
Acq: 08 May 2025 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



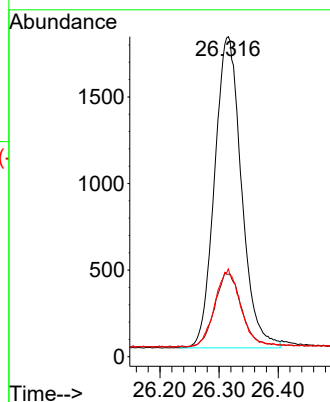
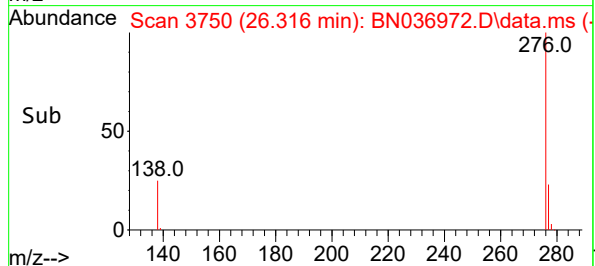
Tgt Ion:276 Resp: 5674

Ion Ratio Lower Upper

276 100

277 25.8 20.2 30.2

138 27.5 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050825\
 Data File : BN036972.D
 Acq On : 08 May 2025 14:28
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: May 08 15:00:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 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	74	0.00
2	1,4-Dioxane	0.498	0.509	-2.2	68	0.00
3	n-Nitrosodimethylamine	0.967	1.034	-6.9	76	0.00
4 S	2-Fluorophenol	1.023	1.032	-0.9	68	0.00
5 S	Phenol-d6	1.259	1.275	-1.3	70	0.00
6	bis(2-Chloroethyl)ether	1.167	1.114	4.5	70	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	75	-0.01
8 S	Nitrobenzene-d5	0.418	0.416	0.5	76	-0.01
9	Naphthalene	1.164	1.153	0.9	75	0.00
10	Hexachlorobutadiene	0.252	0.247	2.0	74	-0.01
11 SURR	2-Methylnaphthalene-d10	0.559	0.538	3.8	75	0.00
12	2-Methylnaphthalene	0.753	0.727	3.5	76	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	79	0.00
14 S	2,4,6-Tribromophenol	0.178	0.170	4.5	76	0.00
15 S	2-Fluorobiphenyl	1.933	1.961	-1.4	75	0.00
16	Acenaphthylene	1.955	1.883	3.7	78	-0.01
17	Acenaphthene	1.284	1.257	2.1	78	-0.01
18	Fluorene	1.680	1.650	1.8	80	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	83	0.00
20	4,6-Dinitro-2-methylphenol	0.106	0.098	7.5	90	0.00
21	4-Bromophenyl-phenylether	0.267	0.254	4.9	81	-0.01
22	Hexachlorobenzene	0.293	0.280	4.4	78	-0.01
23	Atrazine	0.215	0.211	1.9	88	0.00
24	Pentachlorophenol	0.157	0.147	6.4	85	-0.01
25	Phenanthrene	1.320	1.289	2.3	83	0.00
26	Anthracene	1.194	1.137	4.8	83	0.00
27 SURR	Fluoranthene-d10	1.037	1.049	-1.2	88	0.00
28	Fluoranthene	1.480	1.491	-0.7	89	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	101	0.00
30	Pyrene	1.927	1.709	11.3	88	0.00
31 S	Terphenyl-d14	0.944	0.862	8.7	92	0.00
32	Benzo(a)anthracene	1.473	1.428	3.1	101	0.00
33	Chrysene	1.589	1.647	-3.7	101	0.00
34	Bis(2-ethylhexyl)phthalate	0.838	0.899	-7.3	109	0.00
35 I	Perylene-d12	1.000	1.000	0.0	109	0.00
36	Indeno(1,2,3-cd)pyrene	1.634	1.641	-0.4	104	0.00
37	Benzo(b)fluoranthene	1.682	1.614	4.0	108	0.00
38	Benzo(k)fluoranthene	1.691	1.621	4.1	107	0.00
39 C	Benzo(a)pyrene	1.383	1.363	1.4	109	0.00
40	Dibenzo(a,h)anthracene	1.286	1.237	3.8	100	0.00
41	Benzo(g,h,i)perylene	1.427	1.434	-0.5	103	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050825\
 Data File : BN036972.D
 Acq On : 08 May 2025 14:28
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: May 08 15:00:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 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	74	0.00
2	1,4-Dioxane	0.400	0.409	-2.2	68	0.00
3	n-Nitrosodimethylamine	0.400	0.428	-7.0	76	0.00
4 S	2-Fluorophenol	0.400	0.403	-0.8	68	0.00
5 S	Phenol-d6	0.400	0.405	-1.3	70	0.00
6	bis(2-Chloroethyl)ether	0.400	0.382	4.5	70	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	75	-0.01
8 S	Nitrobenzene-d5	0.400	0.398	0.5	76	-0.01
9	Naphthalene	0.400	0.396	1.0	75	0.00
10	Hexachlorobutadiene	0.400	0.392	2.0	74	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.385	3.8	75	0.00
12	2-Methylnaphthalene	0.400	0.386	3.5	76	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	79	0.00
14 S	2,4,6-Tribromophenol	0.400	0.381	4.8	76	0.00
15 S	2-Fluorobiphenyl	0.400	0.406	-1.5	75	0.00
16	Acenaphthylene	0.400	0.385	3.8	78	-0.01
17	Acenaphthene	0.400	0.392	2.0	78	-0.01
18	Fluorene	0.400	0.393	1.8	80	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	83	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.370	7.5	90	0.00
21	4-Bromophenyl-phenylether	0.400	0.380	5.0	81	-0.01
22	Hexachlorobenzene	0.400	0.383	4.3	78	-0.01
23	Atrazine	0.400	0.392	2.0	88	0.00
24	Pentachlorophenol	0.400	0.375	6.3	85	-0.01
25	Phenanthrene	0.400	0.390	2.5	83	0.00
26	Anthracene	0.400	0.381	4.8	83	0.00
27 SURR	Fluoranthene-d10	0.400	0.404	-1.0	88	0.00
28	Fluoranthene	0.400	0.403	-0.8	89	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	101	0.00
30	Pyrene	0.400	0.355	11.3	88	0.00
31 S	Terphenyl-d14	0.400	0.365	8.8	92	0.00
32	Benzo(a)anthracene	0.400	0.388	3.0	101	0.00
33	Chrysene	0.400	0.415	-3.7	101	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.429	-7.2	109	0.00
35 I	Perylene-d12	0.400	0.400	0.0	109	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.402	-0.5	104	0.00
37	Benzo(b)fluoranthene	0.400	0.384	4.0	108	0.00
38	Benzo(k)fluoranthene	0.400	0.383	4.3	107	0.00
39 C	Benzo(a)pyrene	0.400	0.394	1.5	109	0.00
40	Dibenzo(a,h)anthracene	0.400	0.385	3.8	100	0.00
41	Benzo(g,h,i)perylene	0.400	0.402	-0.5	103	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: ALLI03

Lab Code: CHEM Case No.: Q1872 SAS No.: Q1872 SDG No.: Q1872

Instrument ID: BNA_N Calibration Date/Time: 05/13/2025 10:39

Lab File ID: BN036992.D Init. Calib. Date(s): 05/12/2025 05/12/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 13:43 17:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.562	0.546		-2.8	20.0
Fluoranthene-d10	1.087	1.072		-1.4	20.0
2-Fluorophenol	1.031	1.097		6.4	20.0
Phenol-d6	1.250	1.305		4.4	20.0
Nitrobenzene-d5	0.422	0.407		-3.6	20.0
2-Fluorobiphenyl	1.868	1.844		-1.3	20.0
2,4,6-Tribromophenol	0.183	0.173		-5.5	20.0
Atrazine	0.229	0.215		-6.1	20.0
Terphenyl-d14	0.905	0.860		-5.0	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051325\
 Data File : BN036992.D
 Acq On : 13 May 2025 10:39
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: May 13 11:53:04 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 12 18:05:36 2025
 Response via : Initial Calibration

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

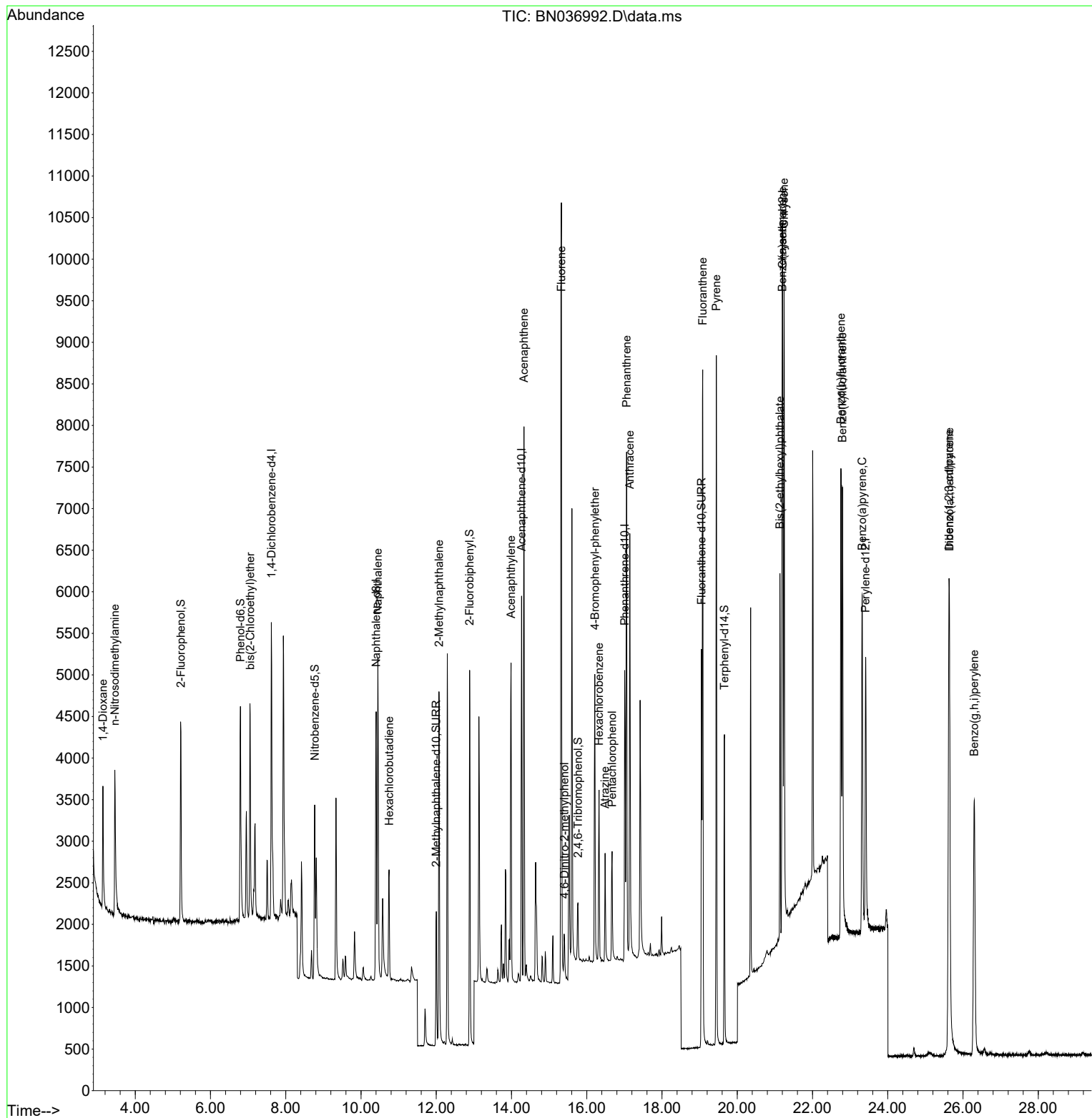
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.618	152	1673	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	4334	0.400	ng	0.00
13) Acenaphthene-d10	14.266	164	2424	0.400	ng	0.00
19) Phenanthrene-d10	17.008	188	4889	0.400	ng	0.00
29) Chrysene-d12	21.206	240	4357	0.400	ng	0.00
35) Perylene-d12	23.412	264	4348	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	1836	0.426	ng	0.00
5) Phenol-d6	6.795	99	2184	0.418	ng	0.00
8) Nitrobenzene-d5	8.771	82	1762	0.386	ng	0.00
11) 2-Methylnaphthalene-d10	12.001	152	2366	0.389	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	419	0.377	ng	0.00
15) 2-Fluorobiphenyl	12.888	172	4471	0.395	ng	0.00
27) Fluoranthene-d10	19.049	212	5239	0.394	ng	0.00
31) Terphenyl-d14	19.658	244	3746	0.380	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.140	88	867	0.407	ng	99
3) n-Nitrosodimethylamine	3.458	42	1717	0.388	ng	# 98
6) bis(2-Chloroethyl)ether	7.055	93	1959	0.404	ng	99
9) Naphthalene	10.447	128	5033	0.400	ng	100
10) Hexachlorobutadiene	10.746	225	1076	0.398	ng	# 98
12) 2-Methylnaphthalene	12.072	142	3138	0.384	ng	98
16) Acenaphthylene	13.988	152	4479	0.378	ng	100
17) Acenaphthene	14.331	154	2992	0.385	ng	99
18) Fluorene	15.325	166	3952	0.379	ng	99
20) 4,6-Dinitro-2-methylph...	15.410	198	421	0.337	ng	94
21) 4-Bromophenyl-phenylether	16.214	248	1220	0.384	ng	94
22) Hexachlorobenzene	16.326	284	1355	0.399	ng	99
23) Atrazine	16.487	200	1052	0.376	ng	100
24) Pentachlorophenol	16.673	266	721	0.383	ng	96
25) Phenanthrene	17.058	178	6279	0.391	ng	99
26) Anthracene	17.145	178	5492	0.374	ng	99
28) Fluoranthene	19.082	202	7429	0.393	ng	99
30) Pyrene	19.444	202	7447	0.377	ng	100
32) Benzo(a)anthracene	21.197	228	6384	0.387	ng	100
33) Chrysene	21.242	228	7016	0.403	ng	99
34) Bis(2-ethylhexyl)phtha...	21.135	149	3843	0.379	ng	100
36) Indeno(1,2,3-cd)pyrene	25.625	276	7230	0.421	ng	98
37) Benzo(b)fluoranthene	22.754	252	6988	0.386	ng	99
38) Benzo(k)fluoranthene	22.795	252	6906	0.383	ng	100
39) Benzo(a)pyrene	23.319	252	5961	0.396	ng	98
40) Dibenzo(a,h)anthracene	25.637	278	5535	0.413	ng	97
41) Benzo(g,h,i)perylene	26.298	276	6206	0.418	ng	98

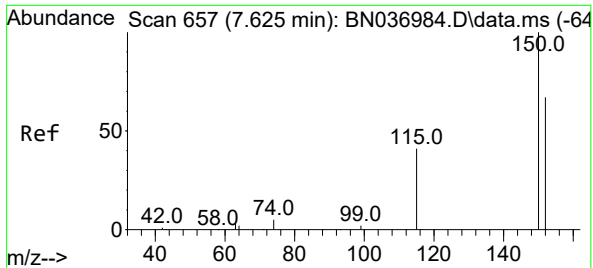
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051325\
Data File : BN036992.D
Acq On : 13 May 2025 10:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: May 13 11:53:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 12 18:05:36 2025
Response via : Initial Calibration

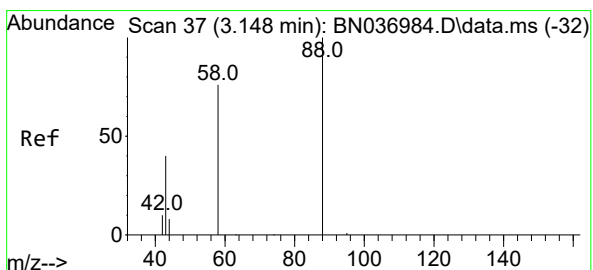
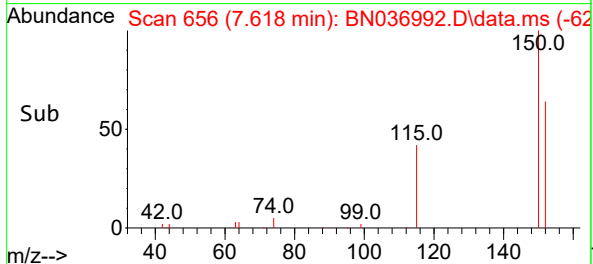
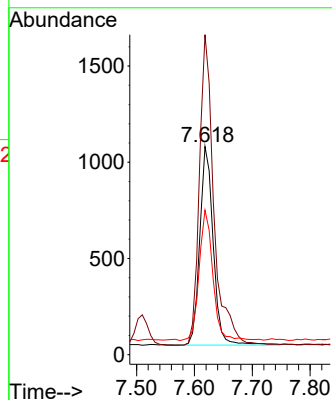
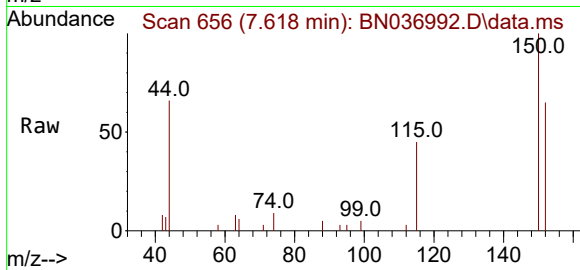




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.618 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

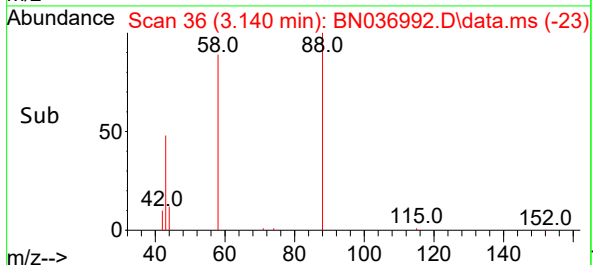
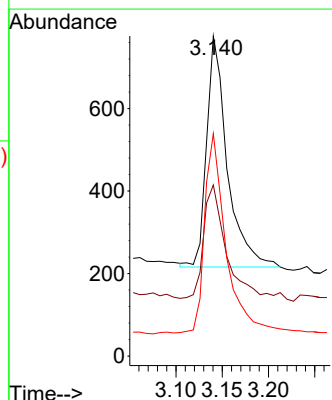
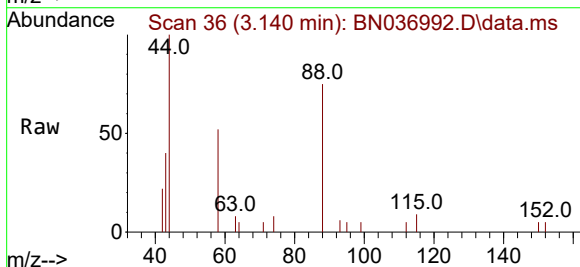
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

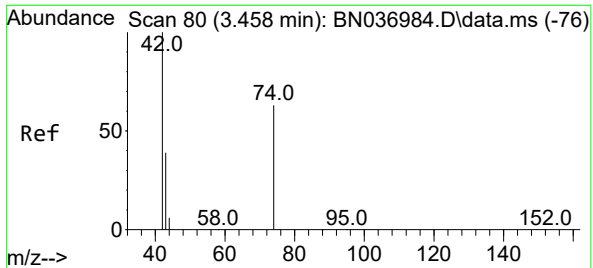
Tgt Ion:152 Resp: 1673
Ion Ratio Lower Upper
152 100
150 153.7 118.2 177.4
115 69.4 52.5 78.7



#2
1,4-Dioxane
Concen: 0.407 ng
RT: 3.140 min Scan# 36
Delta R.T. -0.007 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

Tgt Ion: 88 Resp: 867
Ion Ratio Lower Upper
88 100
43 52.7 43.3 64.9
58 88.8 70.7 106.1

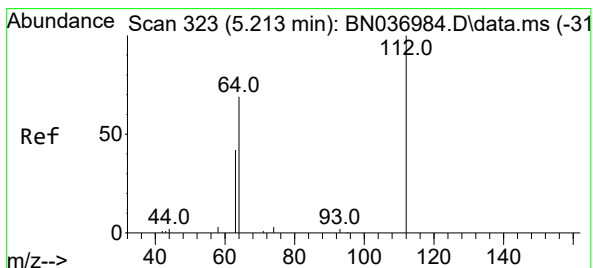
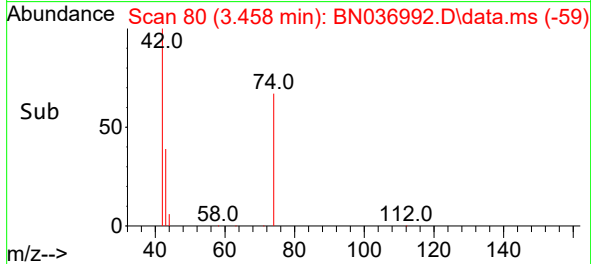
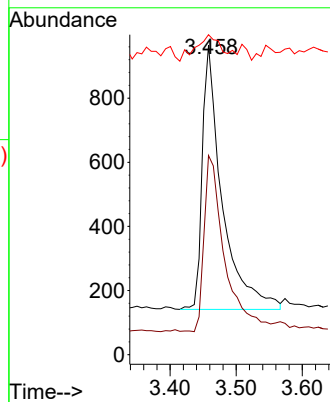
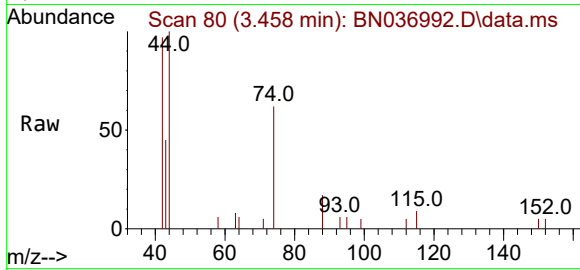




#3
 n-Nitrosodimethylamine
 Concen: 0.388 ng
 RT: 3.458 min Scan# 80
 Delta R.T. -0.000 min
 Lab File: BN036992.D
 Acq: 13 May 2025 10:39

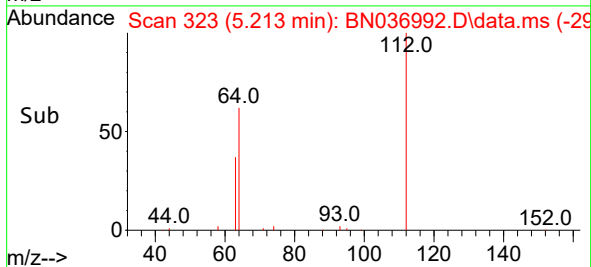
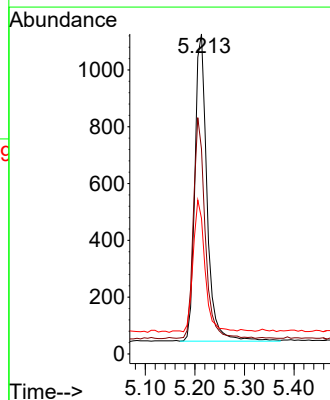
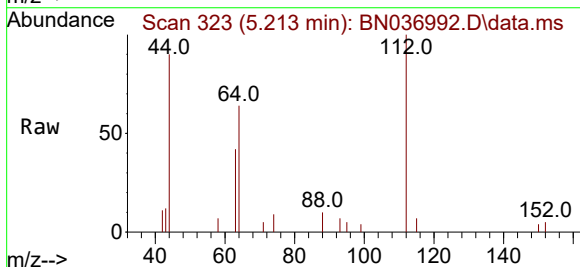
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

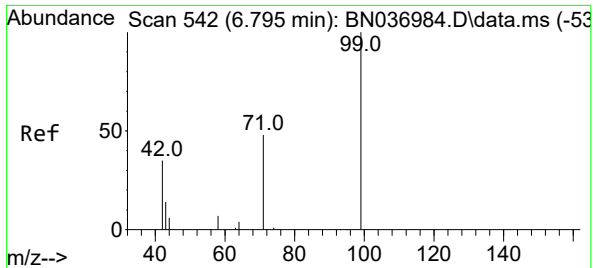
Tgt Ion: 42 Resp: 1717
 Ion Ratio Lower Upper
 42 100
 74 68.4 55.2 82.8
 44 12.1 4.7 7.1#



#4
 2-Fluorophenol
 Concen: 0.426 ng
 RT: 5.213 min Scan# 323
 Delta R.T. -0.000 min
 Lab File: BN036992.D
 Acq: 13 May 2025 10:39

Tgt Ion: 112 Resp: 1836
 Ion Ratio Lower Upper
 112 100
 64 69.4 56.2 84.2
 63 42.7 34.3 51.5

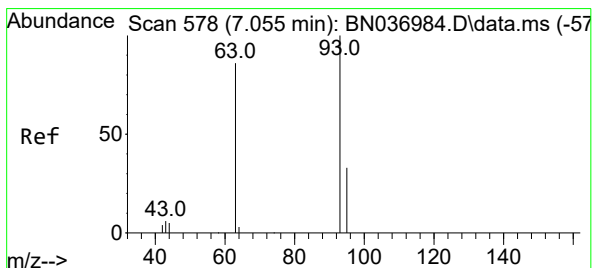
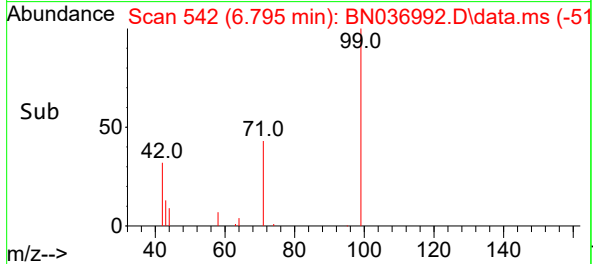
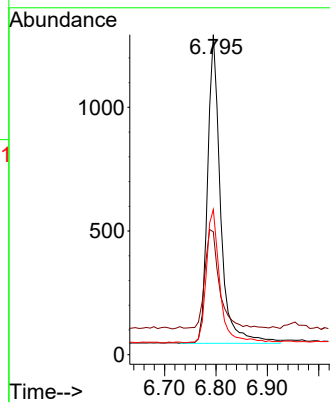
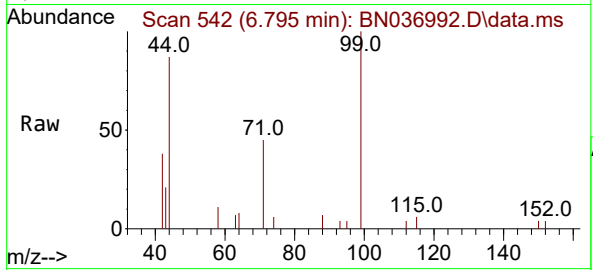




#5
Phenol-d6
Concen: 0.418 ng
RT: 6.795 min Scan# 542
Delta R.T. -0.000 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

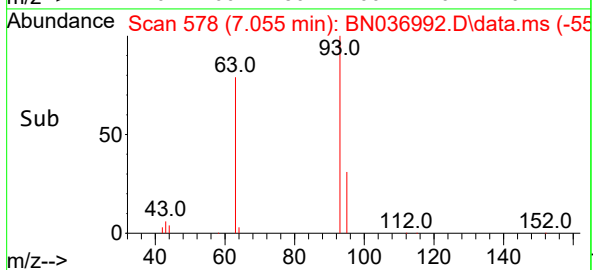
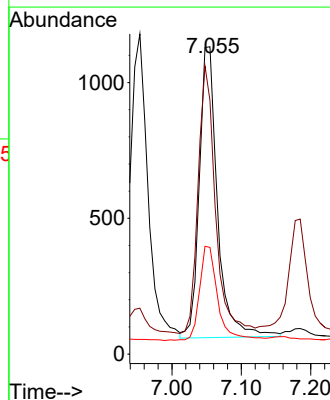
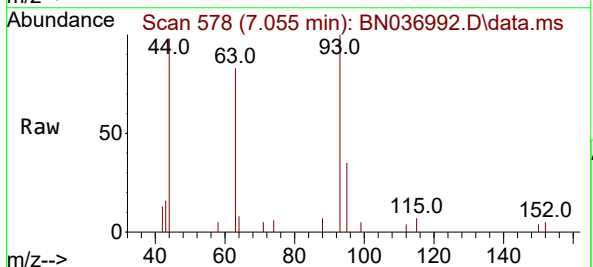
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

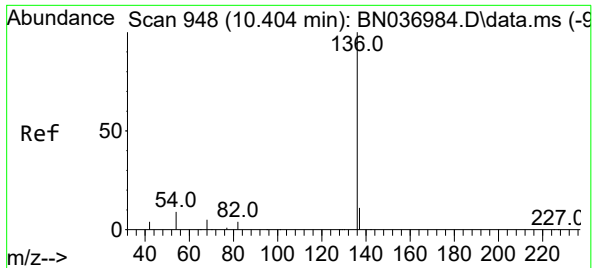
Tgt Ion:	99	Resp:	2184
Ion	Ratio	Lower	Upper
99	100		
42	35.5	29.0	43.6
71	45.2	36.2	54.2



#6
bis(2-Chloroethyl)ether
Concen: 0.404 ng
RT: 7.055 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

Tgt Ion:	93	Resp:	1959
Ion	Ratio	Lower	Upper
93	100		
63	87.3	69.6	104.4
95	32.5	25.1	37.7

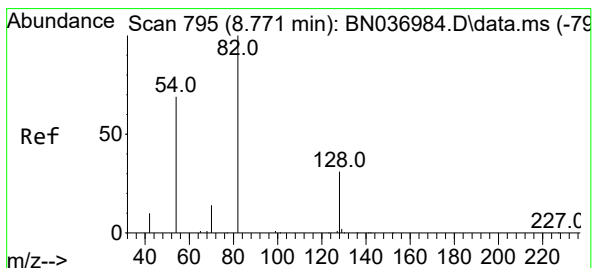
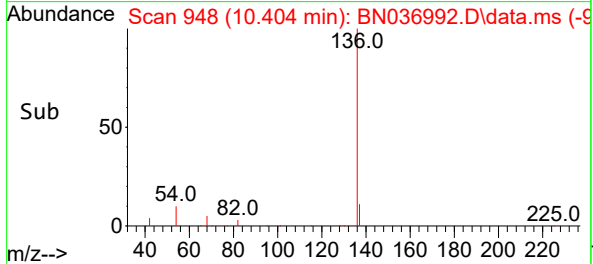
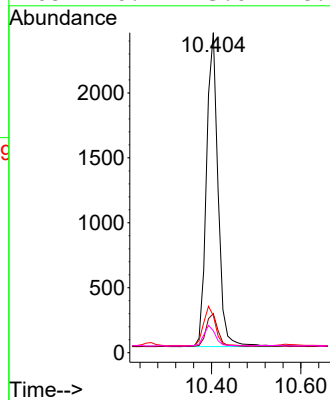
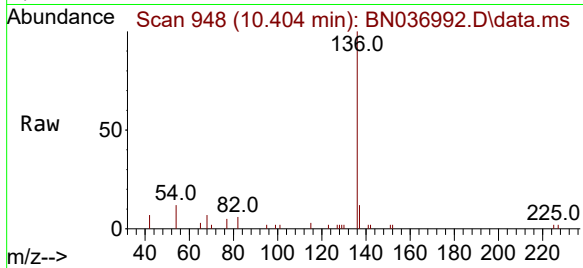




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

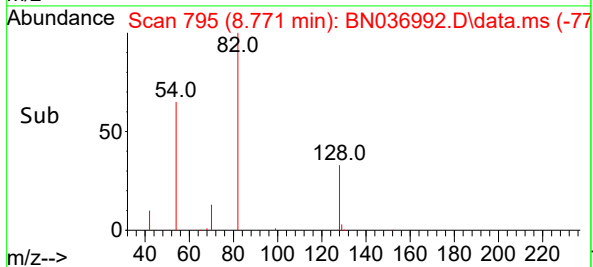
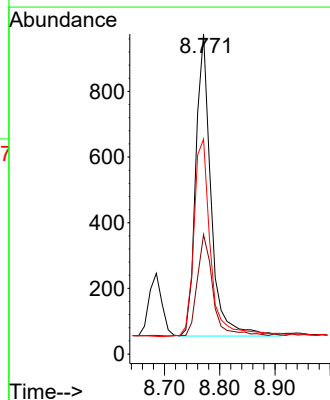
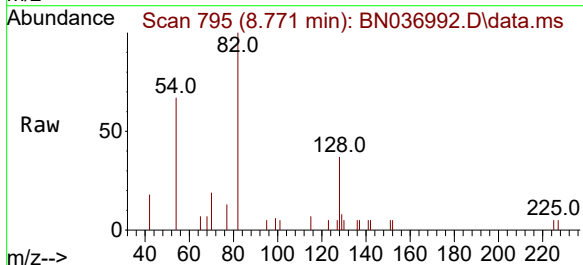
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

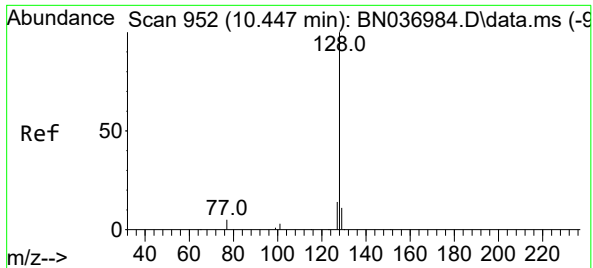
Tgt Ion:	136	Resp:	4334
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.3	15.5
54	11.6	9.2	13.8
68	6.9	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.386 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.000 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

Tgt Ion:	82	Resp:	1762
Ion	Ratio	Lower	Upper
82	100		
128	37.3	28.1	42.1
54	67.2	56.4	84.6

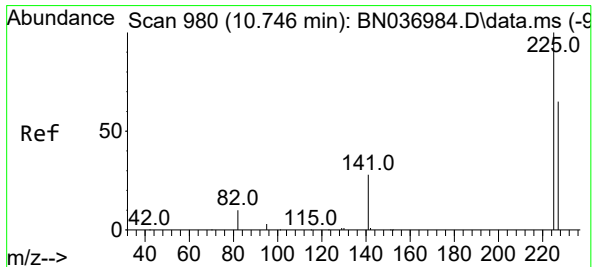
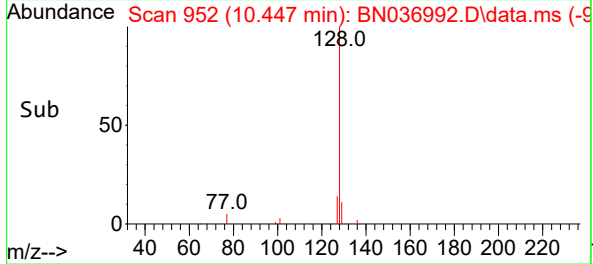
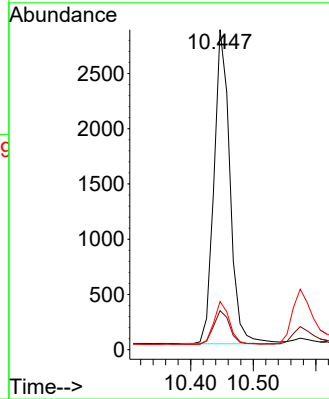
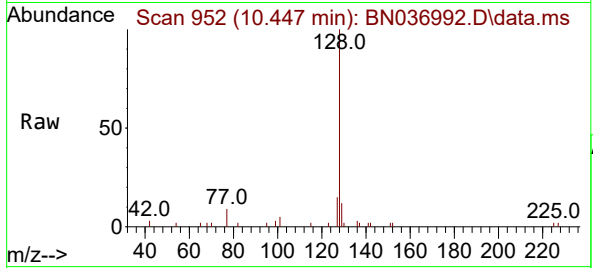




#9
Naphthalene
Concen: 0.400 ng
RT: 10.447 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

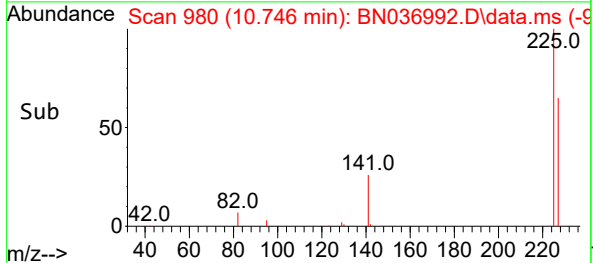
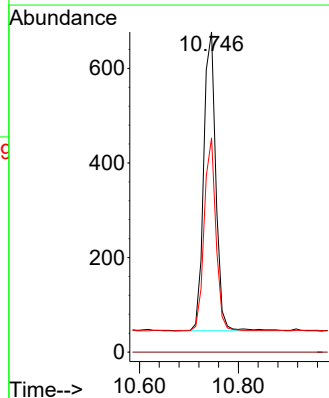
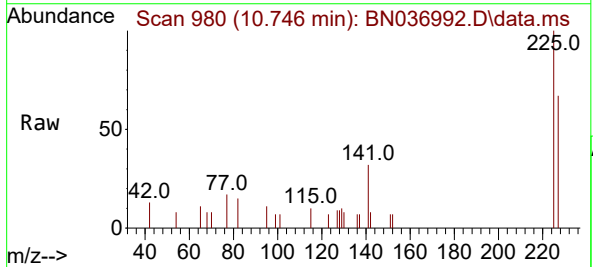
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

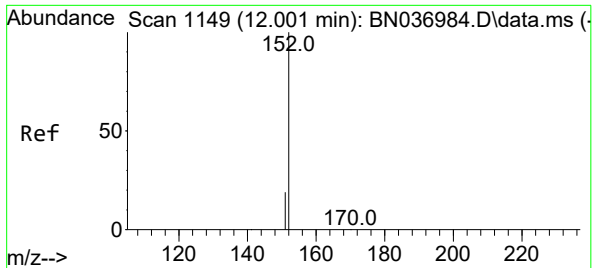
Tgt Ion:128 Resp: 5033
Ion Ratio Lower Upper
128 100
129 12.2 10.0 15.0
127 15.1 12.1 18.1



#10
Hexachlorobutadiene
Concen: 0.398 ng
RT: 10.746 min Scan# 980
Delta R.T. -0.000 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

Tgt Ion:225 Resp: 1076
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.5 51.2 76.8

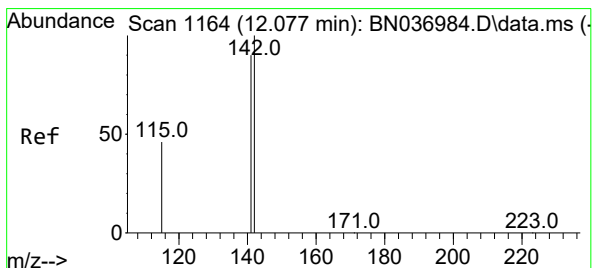
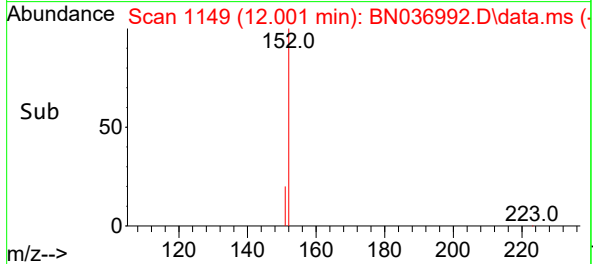
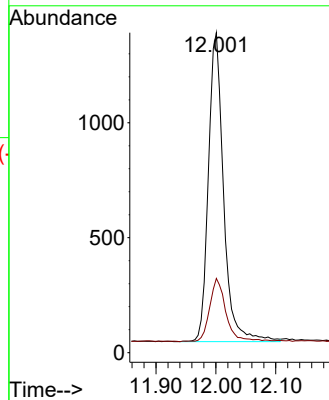
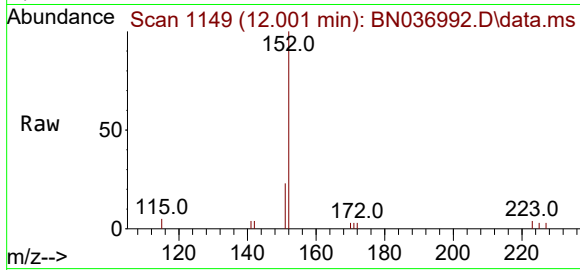




#11
2-Methylnaphthalene-d10
Concen: 0.389 ng
RT: 12.001 min Scan# 1149
Delta R.T. -0.000 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

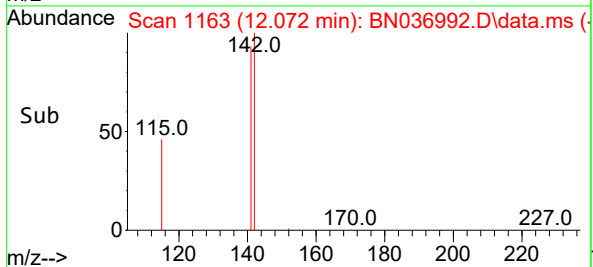
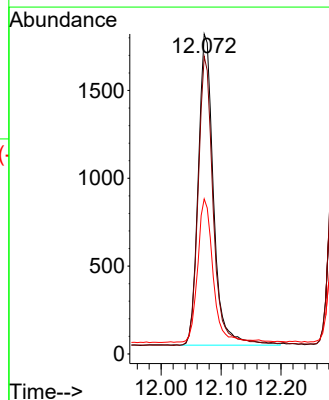
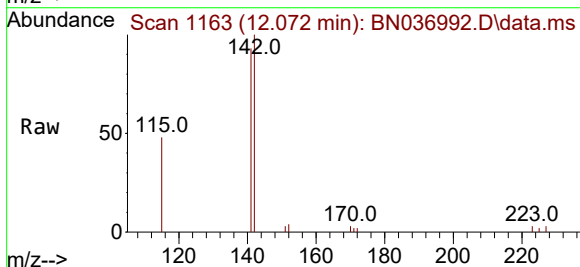
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

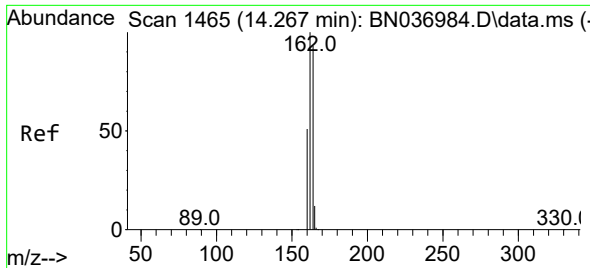
Tgt Ion:152 Resp: 2366
Ion Ratio Lower Upper
152 100
151 22.1 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 12.072 min Scan# 1163
Delta R.T. -0.005 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

Tgt Ion:142 Resp: 3138
Ion Ratio Lower Upper
142 100
141 93.0 71.8 107.8
115 48.5 38.6 58.0

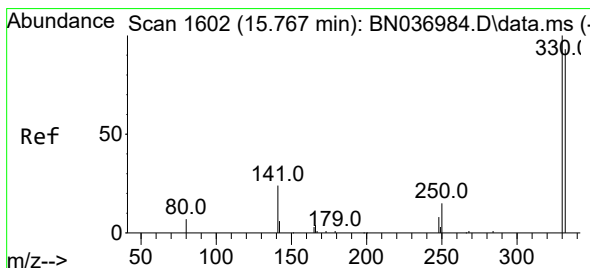
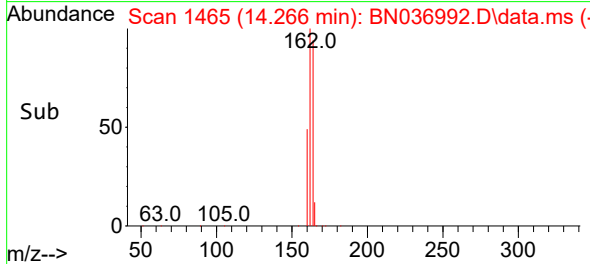
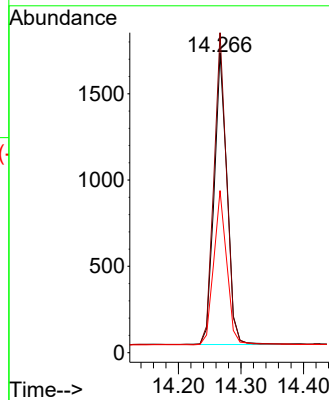
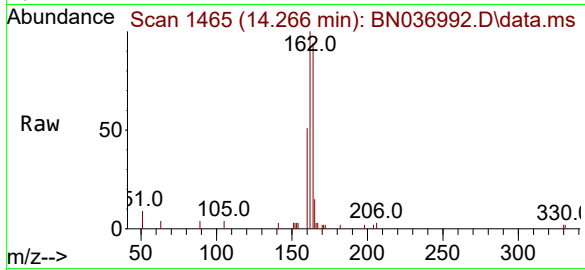




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.266 min Scan# 1465
Delta R.T. -0.000 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

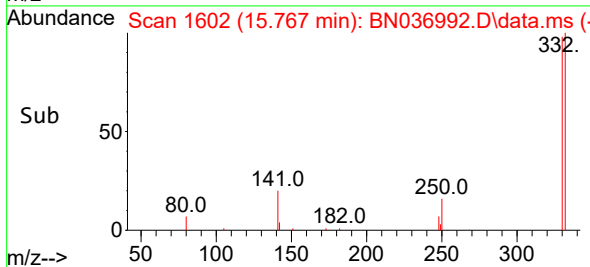
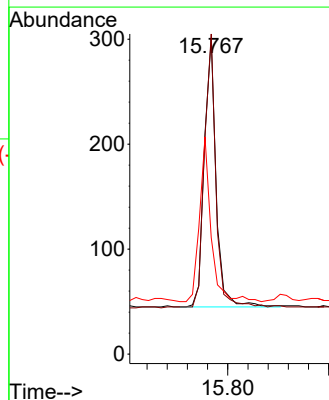
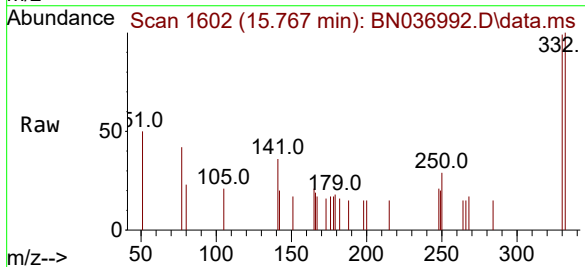
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

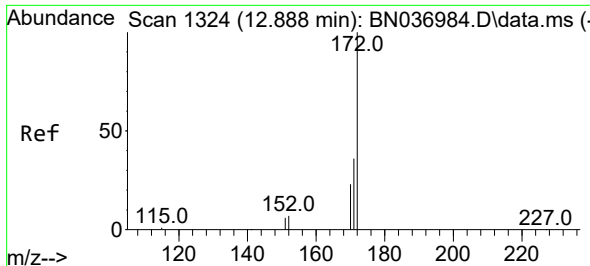
Tgt Ion:164 Resp: 2424
Ion Ratio Lower Upper
164 100
162 106.7 86.1 129.1
160 54.0 44.6 67.0



#14
2,4,6-Tribromophenol
Concen: 0.377 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

Tgt Ion:330 Resp: 419
Ion Ratio Lower Upper
330 100
332 97.1 75.6 113.4
141 58.2 47.4 71.2

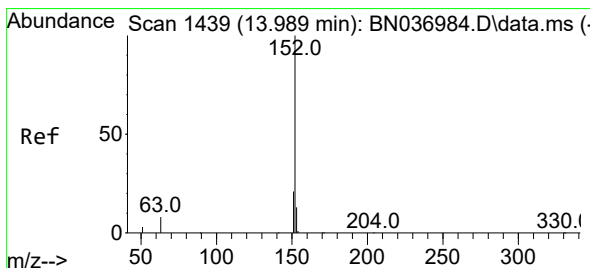
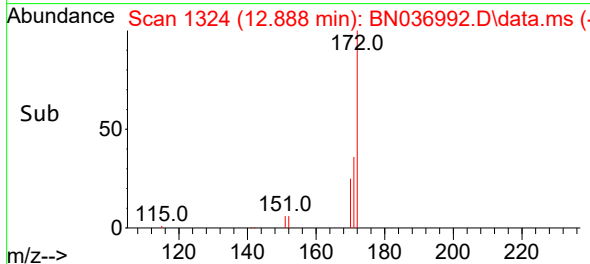
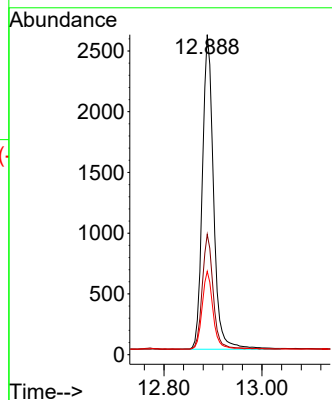
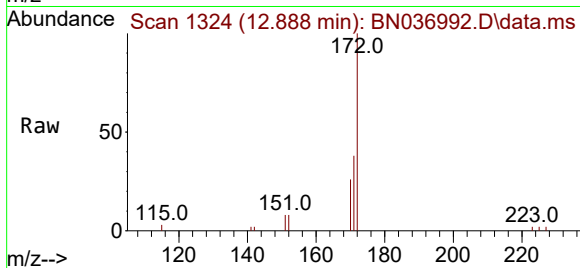




#15
2-Fluorobiphenyl
Concen: 0.395 ng
RT: 12.888 min Scan# 1324
Delta R.T. -0.000 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

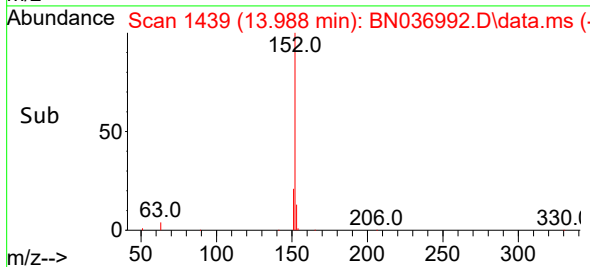
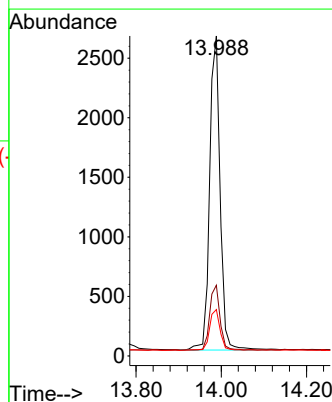
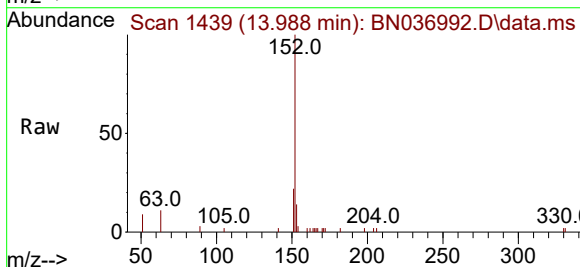
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

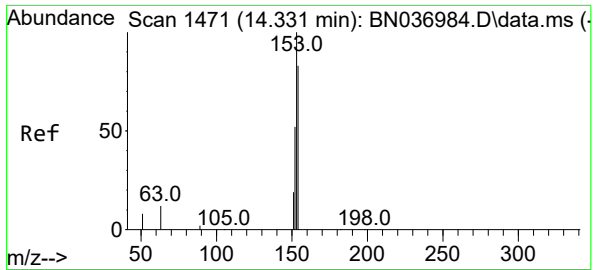
Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.6	29.4	44.2
170	26.0	19.4	29.0



#16
Acenaphthylene
Concen: 0.378 ng
RT: 13.988 min Scan# 1439
Delta R.T. -0.000 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4
153	13.2	10.9	16.3

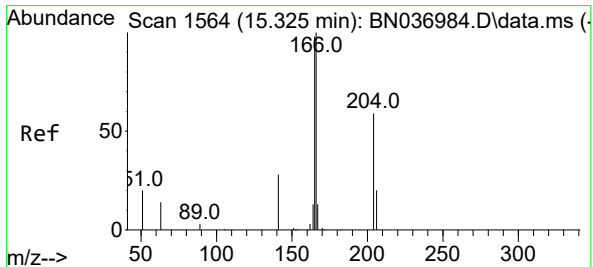
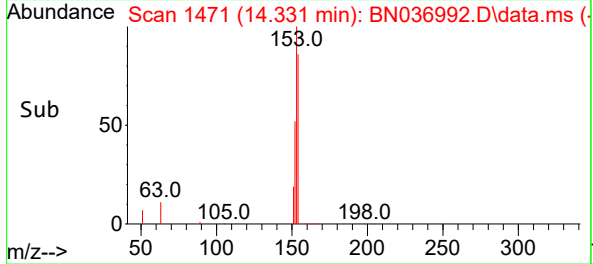
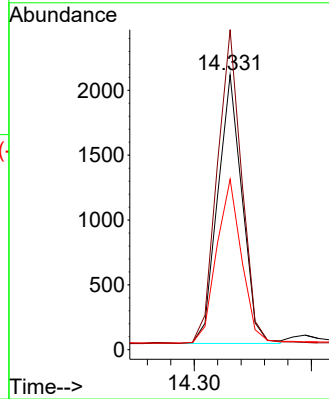
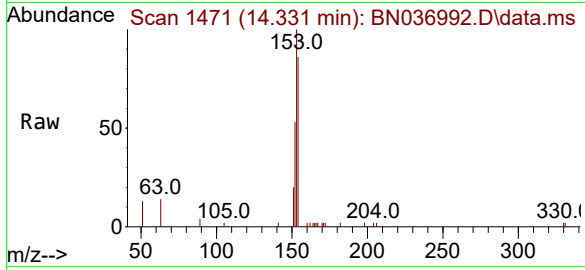




#17
Acenaphthene
Concen: 0.385 ng
RT: 14.331 min Scan# 1471
Delta R.T. -0.000 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

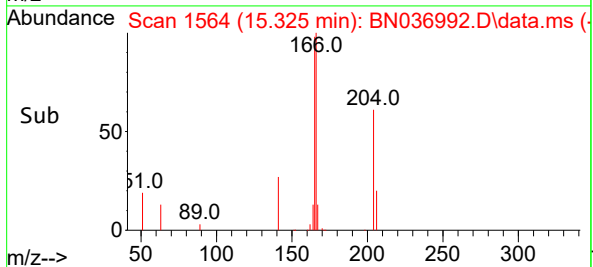
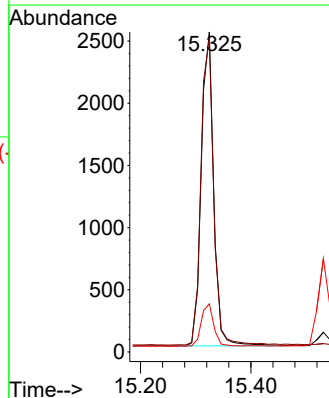
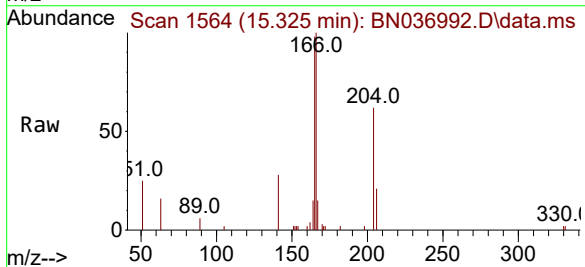
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

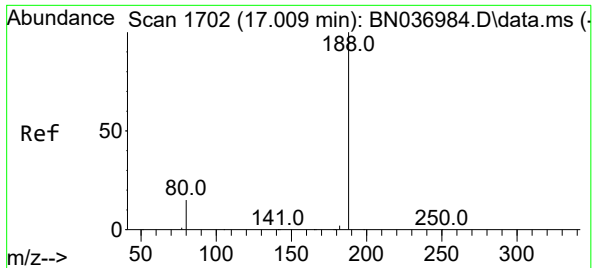
Tgt Ion:154 Resp: 2992
Ion Ratio Lower Upper
154 100
153 118.2 94.6 142.0
152 63.3 49.4 74.2



#18
Fluorene
Concen: 0.379 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

Tgt Ion:166 Resp: 3952
Ion Ratio Lower Upper
166 100
165 100.5 81.0 121.4
167 13.7 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.008 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036992.D

Acq: 13 May 2025 10:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

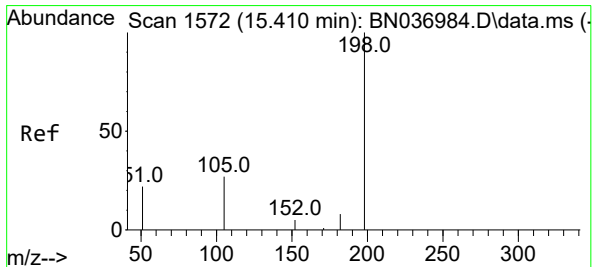
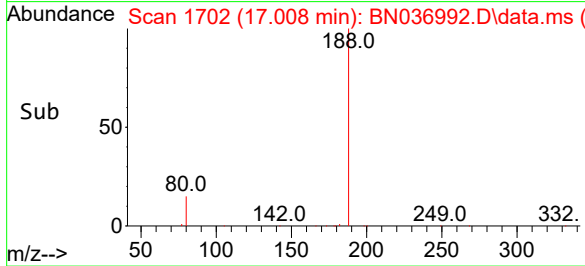
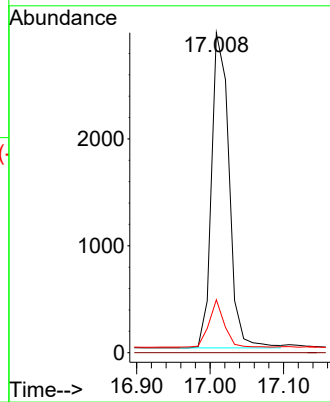
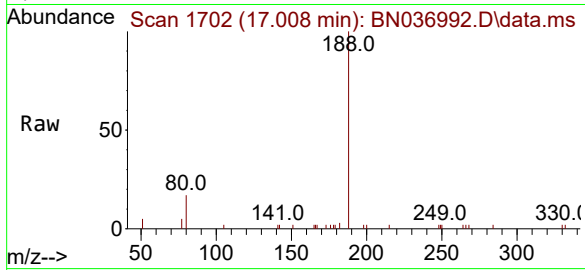
Tgt Ion:188 Resp: 4889

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.6 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.337 ng

RT: 15.410 min Scan# 1572

Delta R.T. -0.000 min

Lab File: BN036992.D

Acq: 13 May 2025 10:39

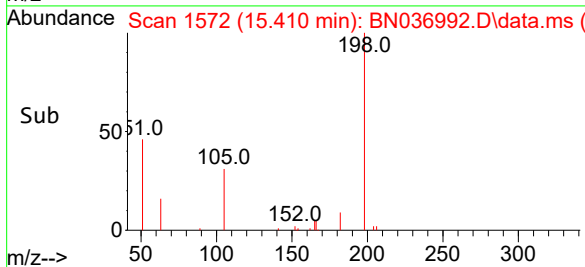
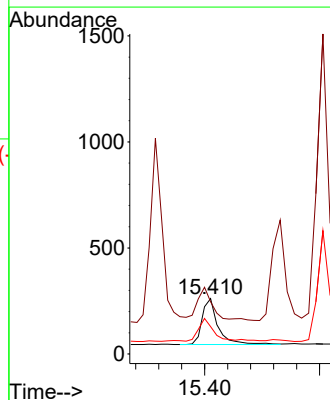
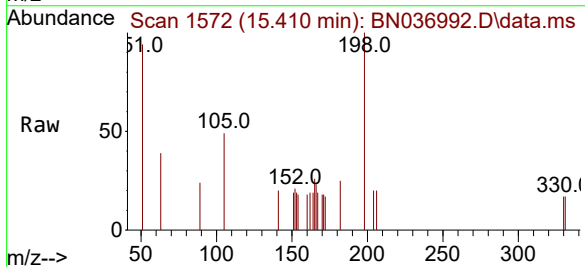
Tgt Ion:198 Resp: 421

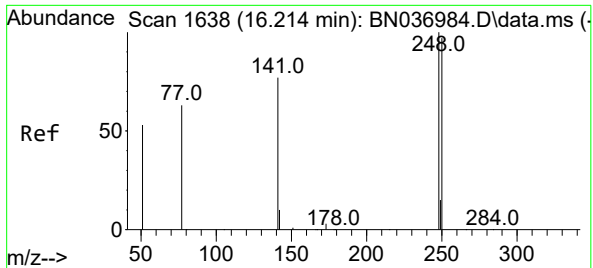
Ion Ratio Lower Upper

198 100

51 94.3 79.7 119.5

105 49.4 36.0 54.0

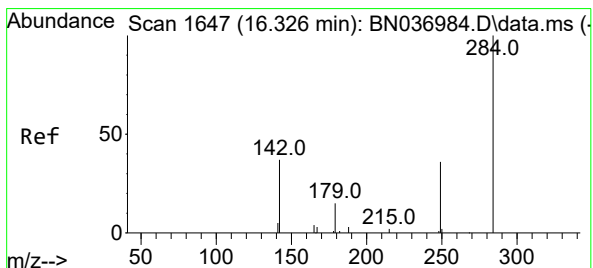
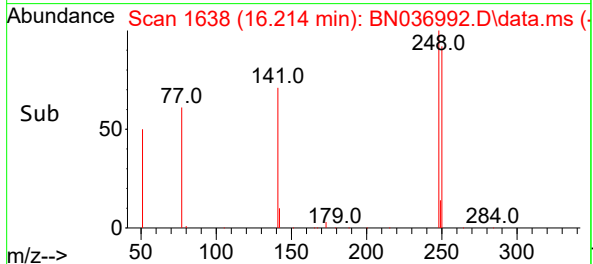
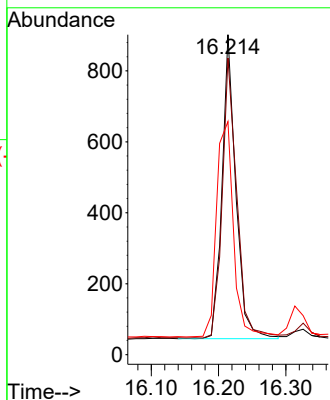
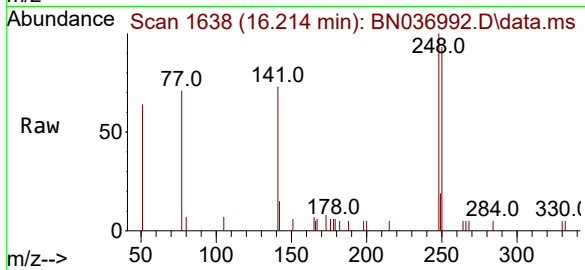




#21
4-Bromophenyl-phenylether
Concen: 0.384 ng
RT: 16.214 min Scan# 1638
Delta R.T. -0.000 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

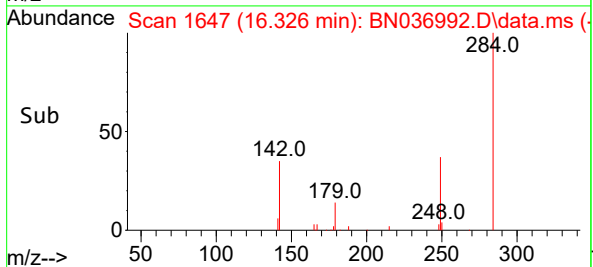
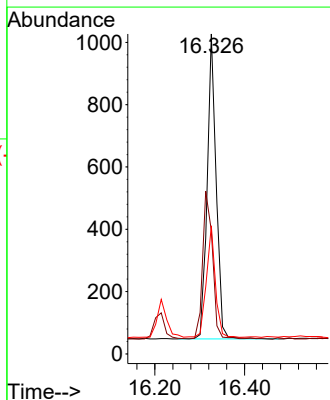
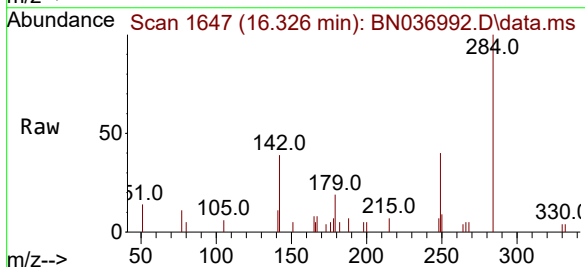
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

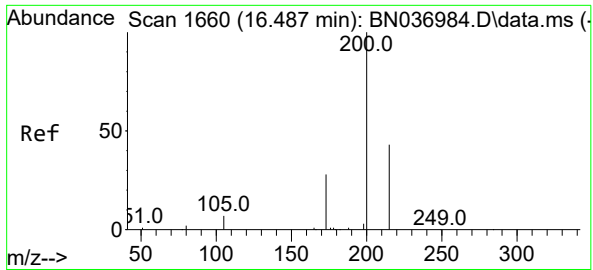
Tgt Ion:248 Resp: 1220
Ion Ratio Lower Upper
248 100
250 92.7 77.8 116.8
141 72.8 63.1 94.7



#22
Hexachlorobenzene
Concen: 0.399 ng
RT: 16.326 min Scan# 1647
Delta R.T. -0.000 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

Tgt Ion:284 Resp: 1355
Ion Ratio Lower Upper
284 100
142 53.1 41.4 62.2
249 36.5 29.1 43.7

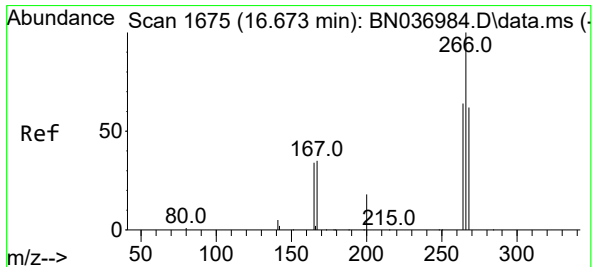
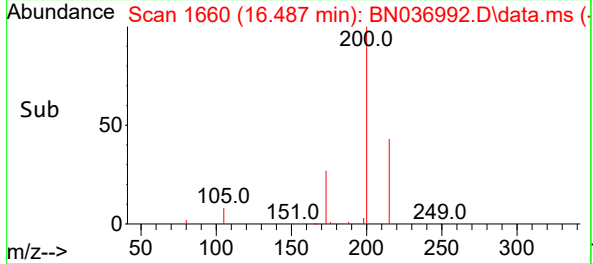
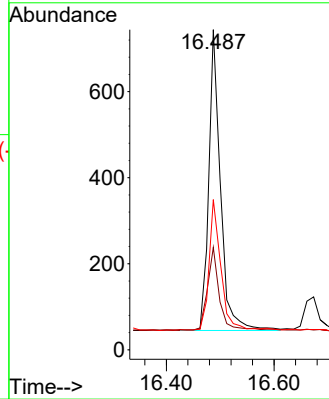
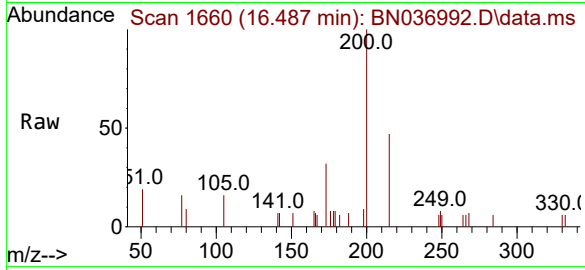




#23
Atrazine
Concen: 0.376 ng
RT: 16.487 min Scan# 1660
Delta R.T. -0.000 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

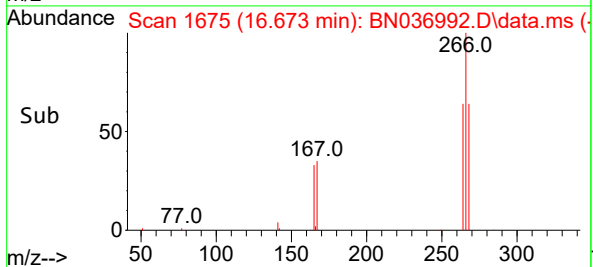
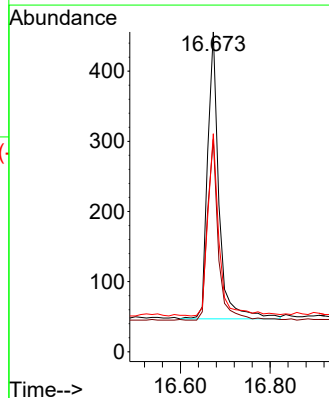
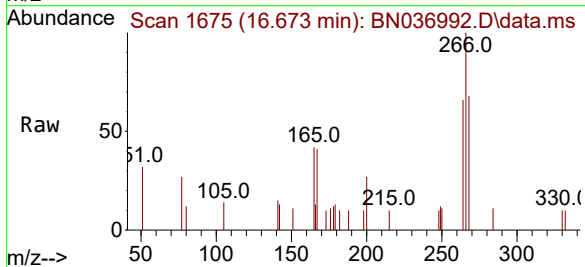
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

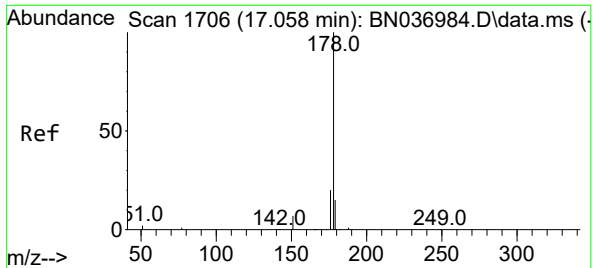
Tgt Ion	Ratio	Lower	Upper
200	100		
173	32.0	25.8	38.6
215	46.9	37.4	56.0



#24
Pentachlorophenol
Concen: 0.383 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.000 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

Tgt Ion	Ratio	Lower	Upper
266	100		
264	60.5	52.8	79.2
268	62.6	50.0	75.0

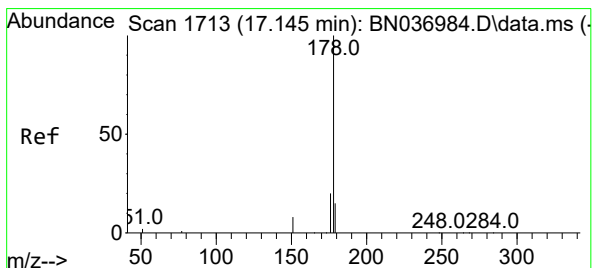
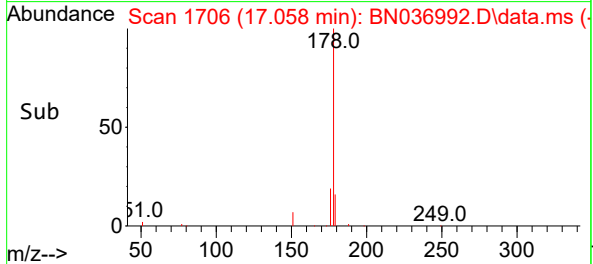
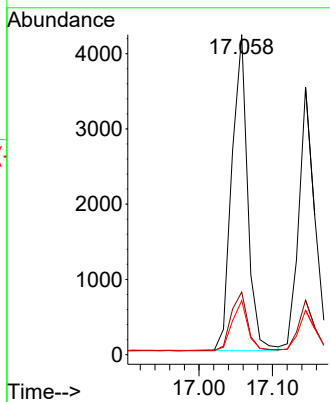
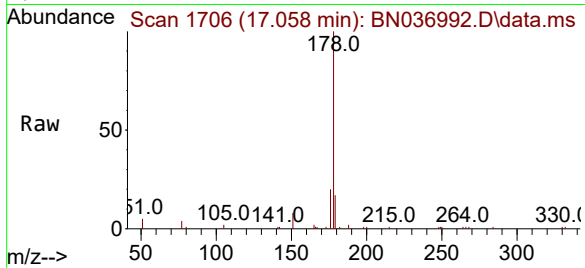




#25
Phenanthrene
Concen: 0.391 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

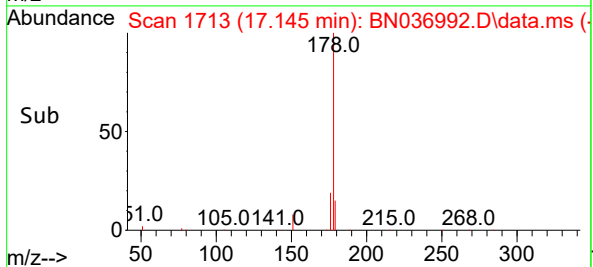
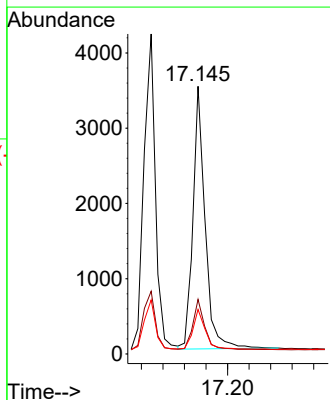
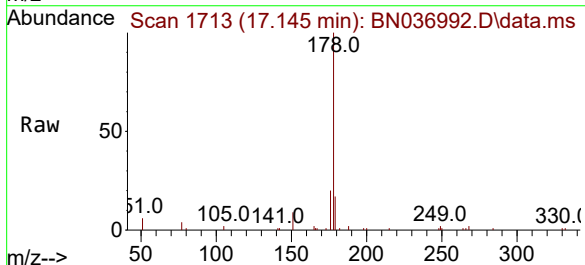
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

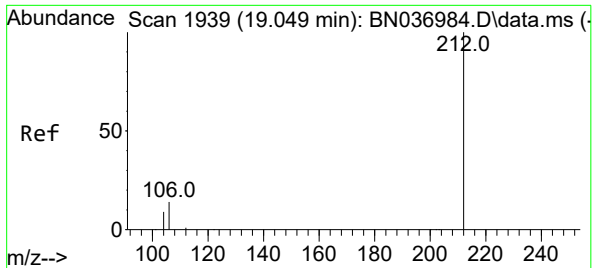
Tgt Ion:178 Resp: 6279
Ion Ratio Lower Upper
178 100
176 19.5 16.0 24.0
179 15.5 12.3 18.5



#26
Anthracene
Concen: 0.374 ng
RT: 17.145 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

Tgt Ion:178 Resp: 5492
Ion Ratio Lower Upper
178 100
176 18.9 15.3 22.9
179 15.9 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.394 ng

RT: 19.049 min Scan# 1939

Delta R.T. -0.000 min

Lab File: BN036992.D

Acq: 13 May 2025 10:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

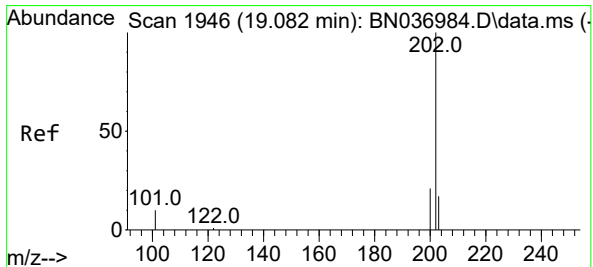
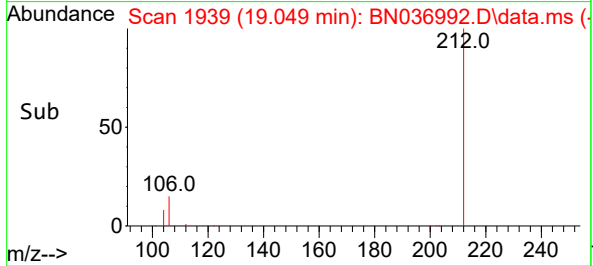
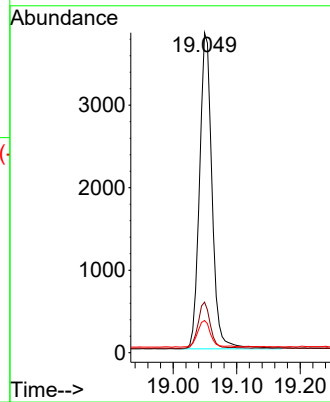
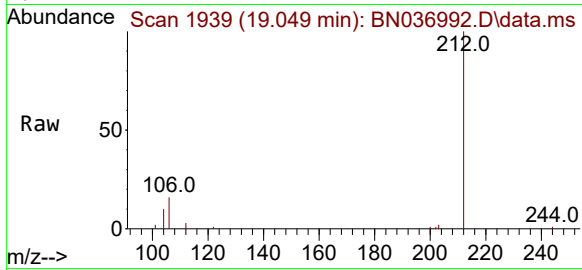
Tgt Ion:212 Resp: 5239

Ion Ratio Lower Upper

212 100

106 14.5 11.3 16.9

104 8.5 7.0 10.4



#28

Fluoranthene

Concen: 0.393 ng

RT: 19.082 min Scan# 1946

Delta R.T. -0.000 min

Lab File: BN036992.D

Acq: 13 May 2025 10:39

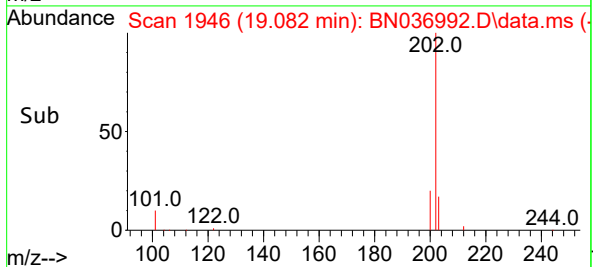
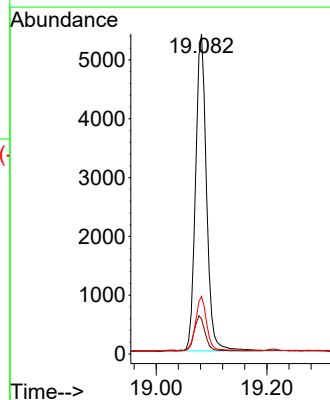
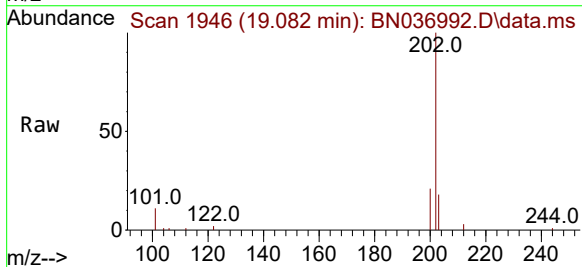
Tgt Ion:202 Resp: 7429

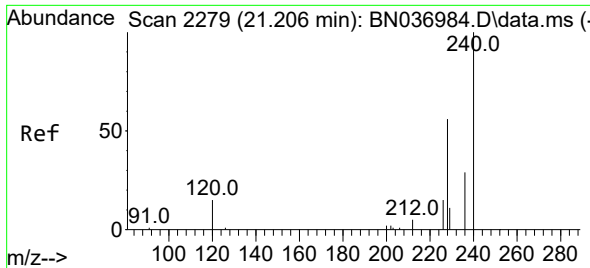
Ion Ratio Lower Upper

202 100

101 11.1 8.6 12.8

203 17.0 13.5 20.3

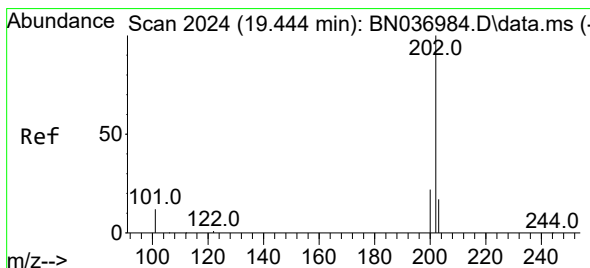
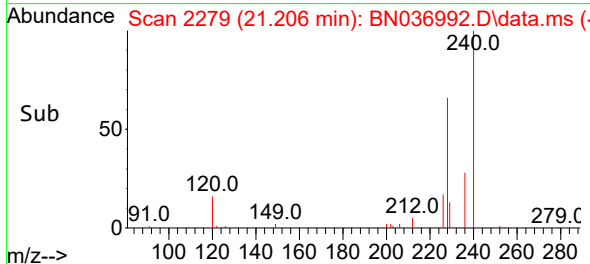
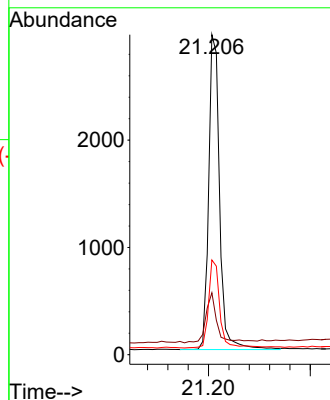
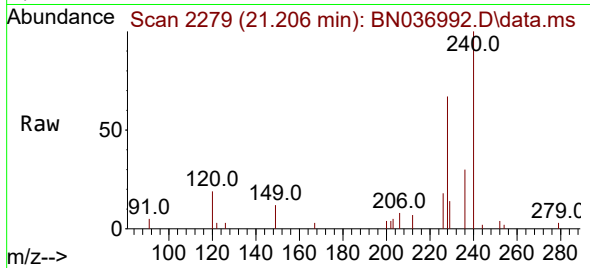




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.206 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

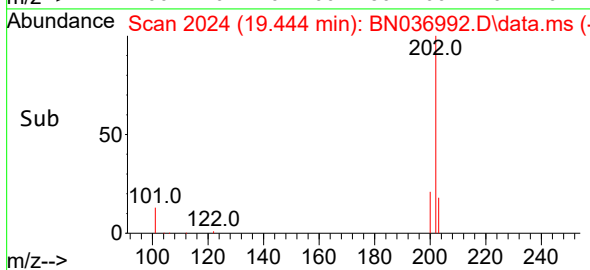
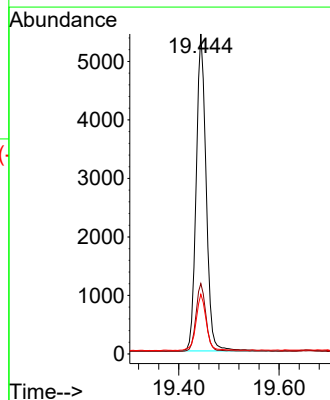
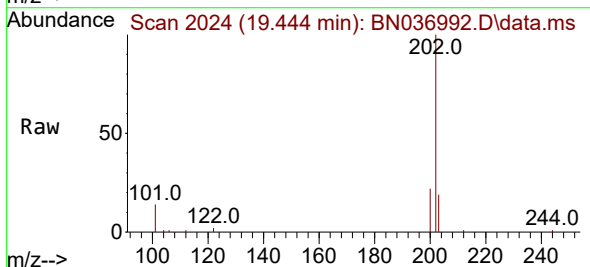
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

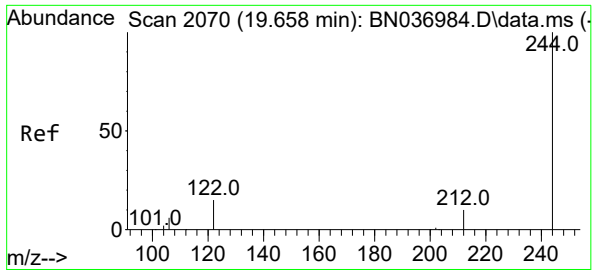
Tgt Ion:240 Resp: 4357
Ion Ratio Lower Upper
240 100
120 19.3 14.5 21.7
236 29.6 24.3 36.5



#30
Pyrene
Concen: 0.377 ng
RT: 19.444 min Scan# 2024
Delta R.T. -0.000 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

Tgt Ion:202 Resp: 7447
Ion Ratio Lower Upper
202 100
200 21.3 17.3 25.9
203 17.9 14.4 21.6

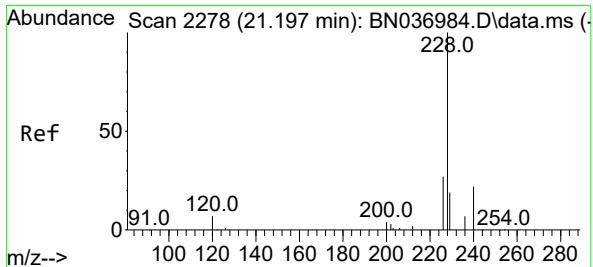
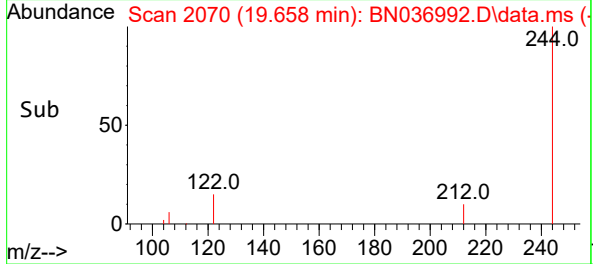
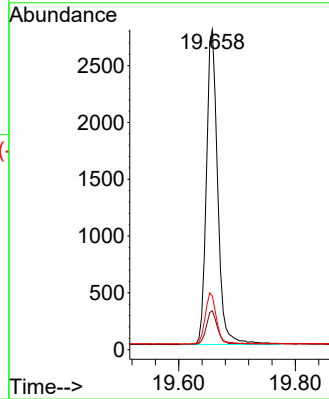
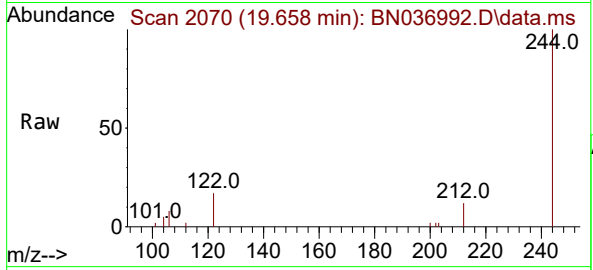




#31
Terphenyl-d14
Concen: 0.380 ng
RT: 19.658 min Scan# 2070
Delta R.T. -0.000 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

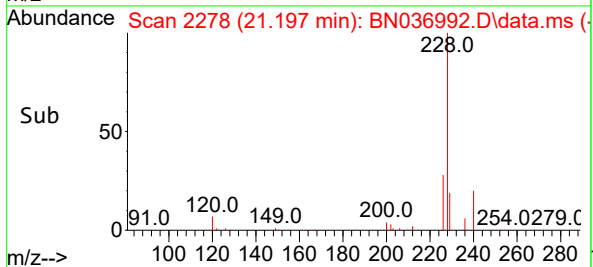
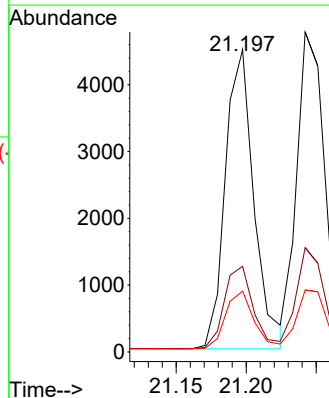
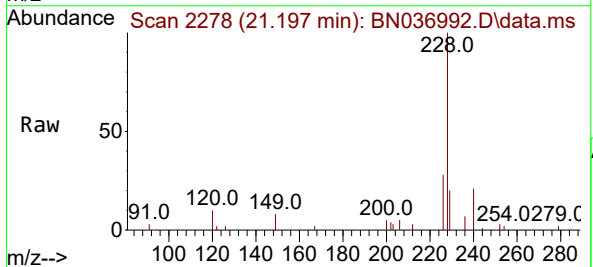
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

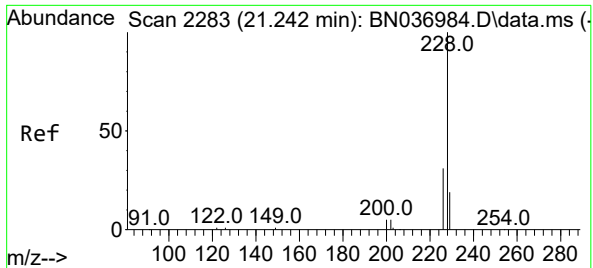
Tgt Ion:244 Resp: 3746
Ion Ratio Lower Upper
244 100
212 12.1 9.5 14.3
122 16.7 13.4 20.0



#32
Benzo(a)anthracene
Concen: 0.387 ng
RT: 21.197 min Scan# 2278
Delta R.T. -0.000 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

Tgt Ion:228 Resp: 6384
Ion Ratio Lower Upper
228 100
226 28.3 22.4 33.6
229 20.1 16.0 24.0





#33

Chrysene

Concen: 0.403 ng

RT: 21.242 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036992.D

Acq: 13 May 2025 10:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

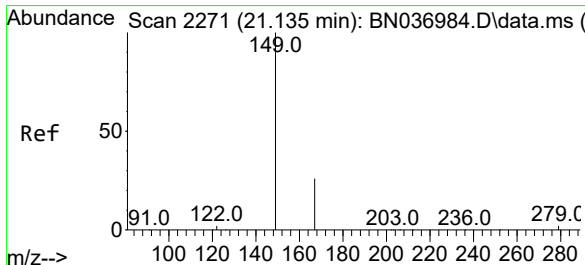
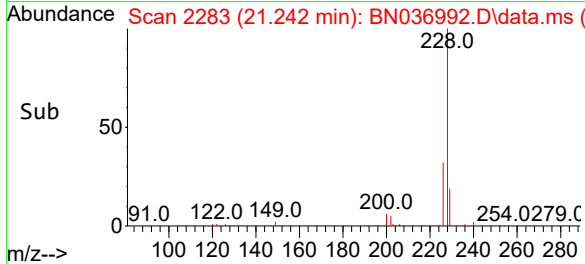
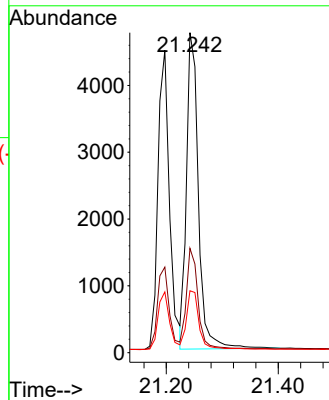
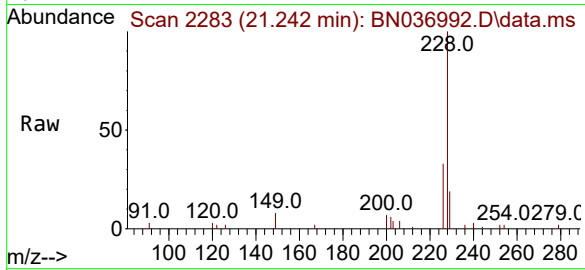
Tgt Ion:228 Resp: 7016

Ion Ratio Lower Upper

228 100

226 32.6 25.7 38.5

229 19.4 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.379 ng

RT: 21.135 min Scan# 2271

Delta R.T. -0.000 min

Lab File: BN036992.D

Acq: 13 May 2025 10:39

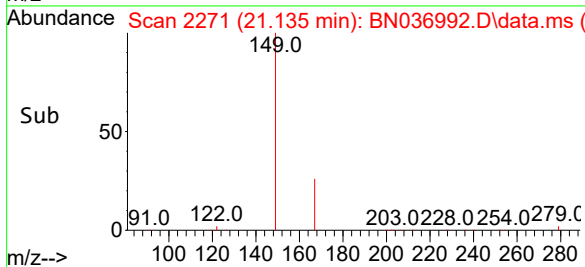
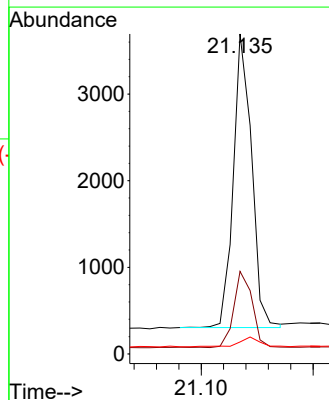
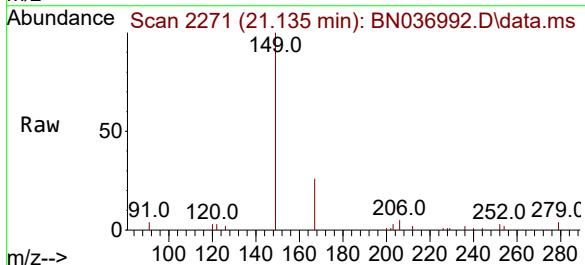
Tgt Ion:149 Resp: 3843

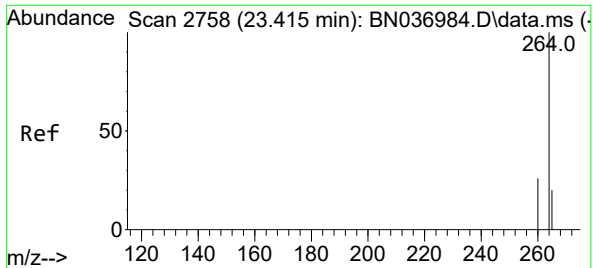
Ion Ratio Lower Upper

149 100

167 26.1 21.0 31.6

279 3.7 2.7 4.1

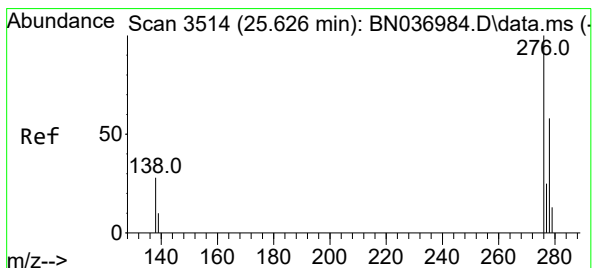
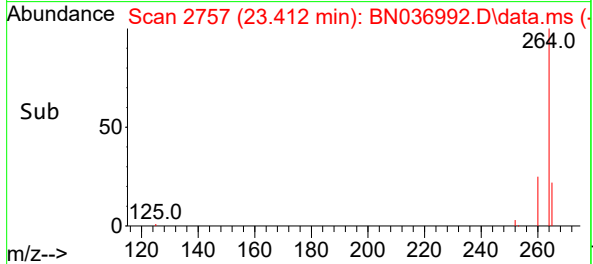
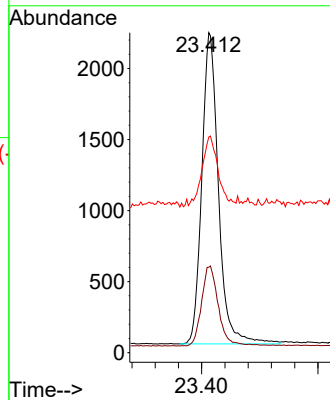
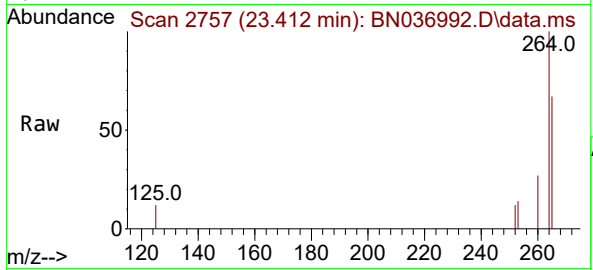




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.412 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

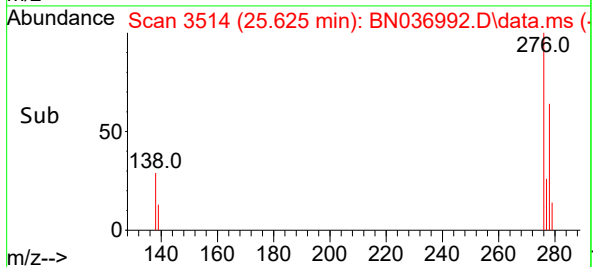
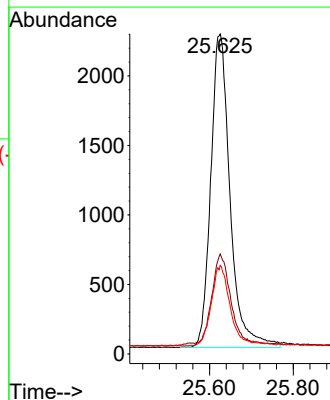
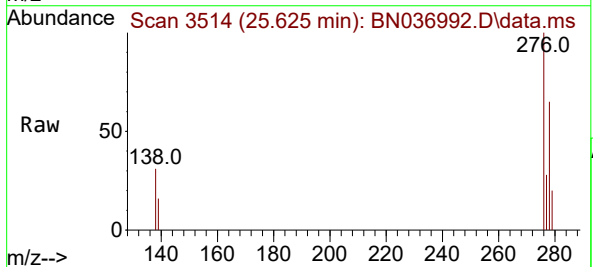
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

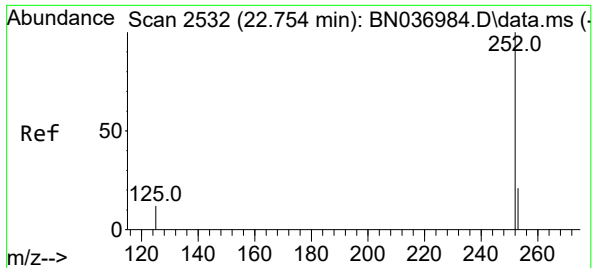
Tgt Ion:264 Resp: 4348
Ion Ratio Lower Upper
264 100
260 26.7 22.3 33.5
265 67.4 55.4 83.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.421 ng
RT: 25.625 min Scan# 3514
Delta R.T. -0.000 min
Lab File: BN036992.D
Acq: 13 May 2025 10:39

Tgt Ion:276 Resp: 7230
Ion Ratio Lower Upper
276 100
138 28.1 21.8 32.8
277 24.4 20.2 30.4





#37

Benzo(b)fluoranthene

Concen: 0.386 ng

RT: 22.754 min Scan# 2532

Delta R.T. -0.000 min

Lab File: BN036992.D

Acq: 13 May 2025 10:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

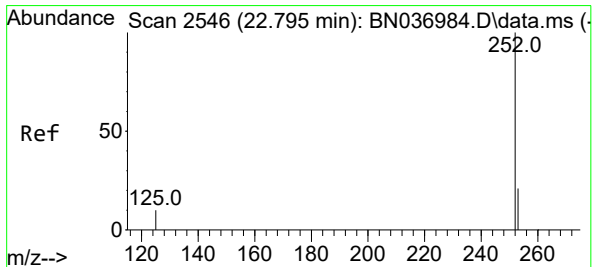
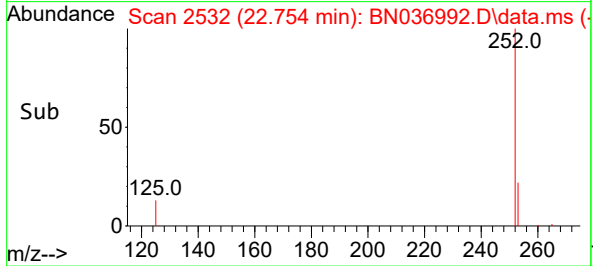
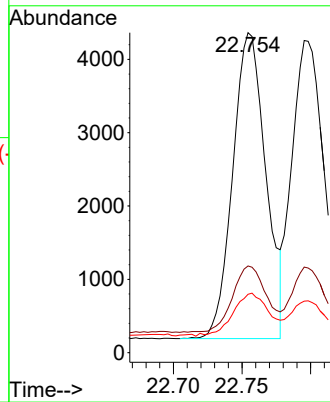
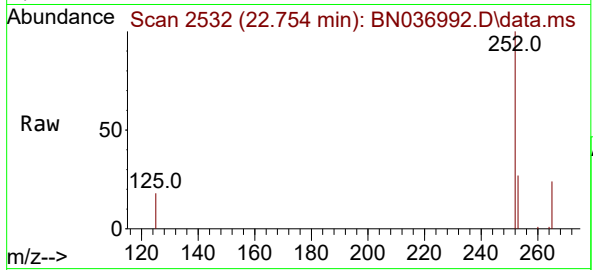
Tgt Ion:252 Resp: 6988

Ion Ratio Lower Upper

252 100

253 27.1 21.9 32.9

125 18.2 13.8 20.8



#38

Benzo(k)fluoranthene

Concen: 0.383 ng

RT: 22.795 min Scan# 2546

Delta R.T. -0.000 min

Lab File: BN036992.D

Acq: 13 May 2025 10:39

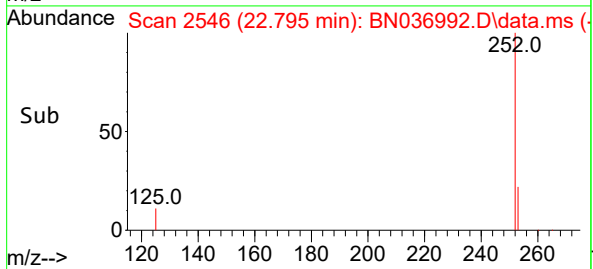
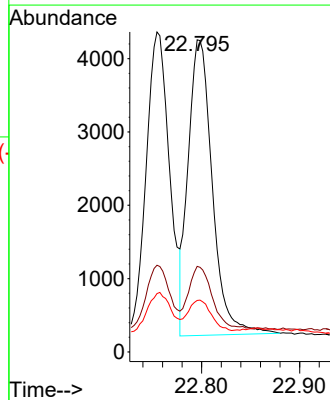
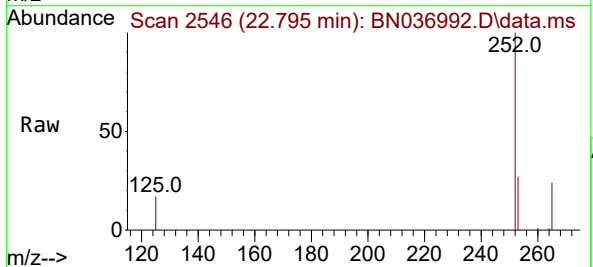
Tgt Ion:252 Resp: 6906

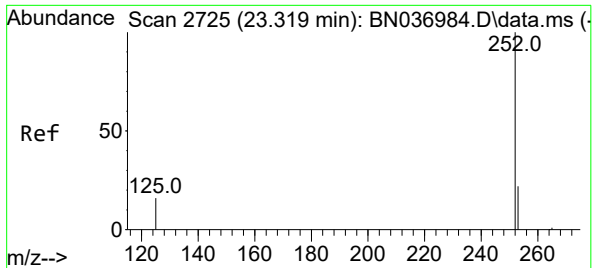
Ion Ratio Lower Upper

252 100

253 27.4 22.0 33.0

125 16.5 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.396 ng

RT: 23.319 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036992.D

Acq: 13 May 2025 10:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

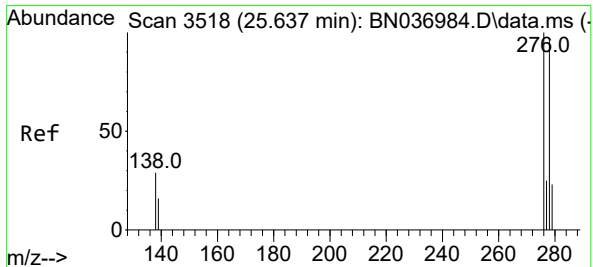
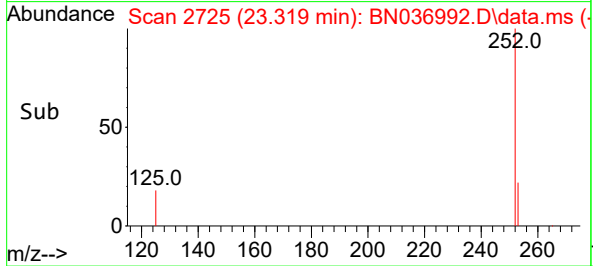
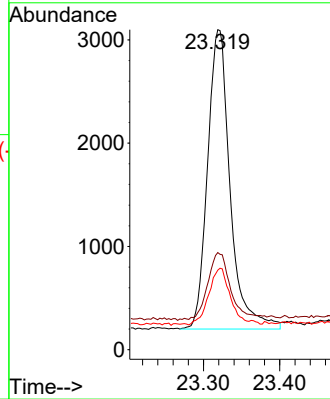
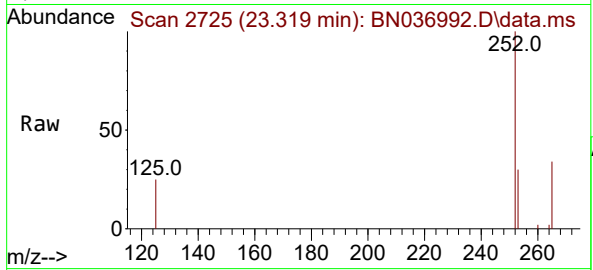
Tgt Ion:252 Resp: 5961

Ion Ratio Lower Upper

252 100

253 30.4 24.8 37.2

125 24.8 18.6 28.0



#40

Dibenzo(a,h)anthracene

Concen: 0.413 ng

RT: 25.637 min Scan# 3518

Delta R.T. -0.000 min

Lab File: BN036992.D

Acq: 13 May 2025 10:39

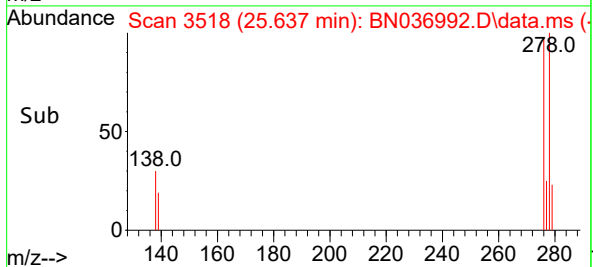
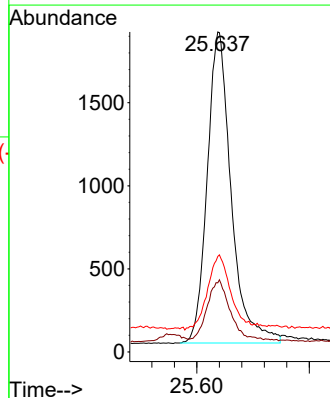
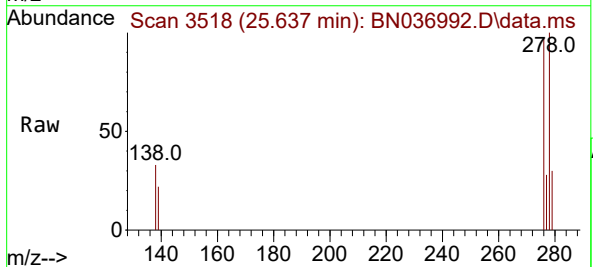
Tgt Ion:278 Resp: 5535

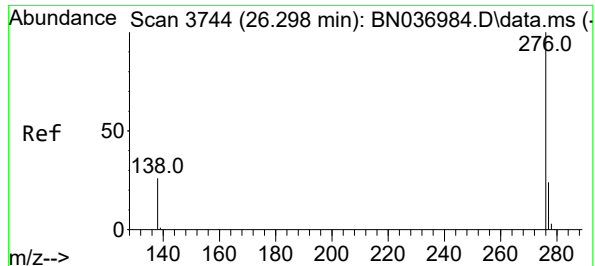
Ion Ratio Lower Upper

278 100

139 21.6 18.1 27.1

279 29.9 25.3 37.9





#41

Benzo(g,h,i)perylene

Concen: 0.418 ng

RT: 26.298 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN036992.D

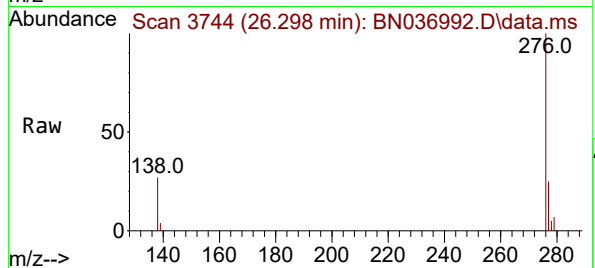
Acq: 13 May 2025 10:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



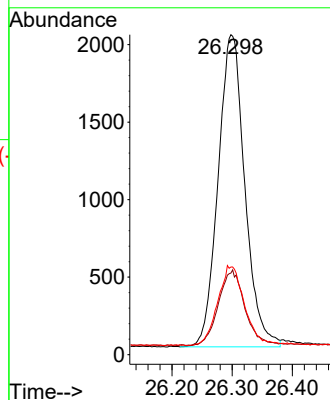
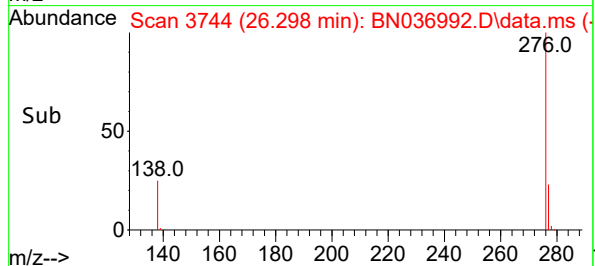
Tgt Ion:276 Resp: 6206

Ion Ratio Lower Upper

276 100

277 25.5 21.2 31.8

138 27.4 22.6 33.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051325\
 Data File : BN036992.D
 Acq On : 13 May 2025 10:39
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: May 13 11:53:04 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 12 18:05:36 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	99	0.00
2	1,4-Dioxane	0.509	0.518	-1.8	94	0.00
3	n-Nitrosodimethylamine	1.058	1.026	3.0	93	0.00
4 S	2-Fluorophenol	1.031	1.097	-6.4	97	0.00
5 S	Phenol-d6	1.250	1.305	-4.4	97	0.00
6	bis(2-Chloroethyl)ether	1.160	1.171	-0.9	100	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	101	0.00
8 S	Nitrobenzene-d5	0.422	0.407	3.6	98	0.00
9	Naphthalene	1.162	1.161	0.1	101	0.00
10	Hexachlorobutadiene	0.249	0.248	0.4	99	0.00
11 SURR	2-Methylnaphthalene-d10	0.562	0.546	2.8	102	0.00
12	2-Methylnaphthalene	0.754	0.724	4.0	100	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	102	0.00
14 S	2,4,6-Tribromophenol	0.183	0.173	5.5	95	0.00
15 S	2-Fluorobiphenyl	1.868	1.844	1.3	96	0.00
16	Acenaphthylene	1.955	1.848	5.5	100	0.00
17	Acenaphthene	1.284	1.234	3.9	99	0.00
18	Fluorene	1.721	1.630	5.3	98	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
20	4,6-Dinitro-2-methylphenol	0.102	0.086	15.7	91	0.00
21	4-Bromophenyl-phenylether	0.260	0.250	3.8	98	0.00
22	Hexachlorobenzene	0.278	0.277	0.4	99	0.00
23	Atrazine	0.229	0.215	6.1	97	0.00
24	Pentachlorophenol	0.154	0.147	4.5	105	0.00
25	Phenanthrene	1.313	1.284	2.2	99	0.00
26	Anthracene	1.201	1.123	6.5	98	0.00
27 SURR	Fluoranthene-d10	1.087	1.072	1.4	101	0.00
28	Fluoranthene	1.547	1.520	1.7	101	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	104	0.00
30	Pyrene	1.815	1.709	5.8	100	0.00
31 S	Terphenyl-d14	0.905	0.860	5.0	100	0.00
32	Benzo(a)anthracene	1.513	1.465	3.2	103	0.00
33	Chrysene	1.598	1.610	-0.8	104	0.00
34	Bis(2-ethylhexyl)phthalate	0.932	0.882	5.4	101	0.00
35 I	Perylene-d12	1.000	1.000	0.0	109	0.00
36	Indeno(1,2,3-cd)pyrene	1.580	1.663	-5.3	116	0.00
37	Benzo(b)fluoranthene	1.667	1.607	3.6	111	0.00
38	Benzo(k)fluoranthene	1.657	1.588	4.2	106	0.00
39 C	Benzo(a)pyrene	1.385	1.371	1.0	110	0.00
40	Dibenzo(a,h)anthracene	1.233	1.273	-3.2	113	0.00
41	Benzo(g,h,i)perylene	1.366	1.427	-4.5	113	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051325\
 Data File : BN036992.D
 Acq On : 13 May 2025 10:39
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: May 13 11:53:04 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 12 18:05:36 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	99	0.00
2	1,4-Dioxane	0.400	0.407	-1.7	94	0.00
3	n-Nitrosodimethylamine	0.400	0.388	3.0	93	0.00
4 S	2-Fluorophenol	0.400	0.426	-6.5	97	0.00
5 S	Phenol-d6	0.400	0.418	-4.5	97	0.00
6	bis(2-Chloroethyl)ether	0.400	0.404	-1.0	100	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	101	0.00
8 S	Nitrobenzene-d5	0.400	0.386	3.5	98	0.00
9	Naphthalene	0.400	0.400	0.0	101	0.00
10	Hexachlorobutadiene	0.400	0.398	0.5	99	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.389	2.8	102	0.00
12	2-Methylnaphthalene	0.400	0.384	4.0	100	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	102	0.00
14 S	2,4,6-Tribromophenol	0.400	0.377	5.8	95	0.00
15 S	2-Fluorobiphenyl	0.400	0.395	1.3	96	0.00
16	Acenaphthylene	0.400	0.378	5.5	100	0.00
17	Acenaphthene	0.400	0.385	3.8	99	0.00
18	Fluorene	0.400	0.379	5.3	98	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	100	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.337	15.8	91	0.00
21	4-Bromophenyl-phenylether	0.400	0.384	4.0	98	0.00
22	Hexachlorobenzene	0.400	0.399	0.3	99	0.00
23	Atrazine	0.400	0.376	6.0	97	0.00
24	Pentachlorophenol	0.400	0.383	4.3	105	0.00
25	Phenanthrene	0.400	0.391	2.3	99	0.00
26	Anthracene	0.400	0.374	6.5	98	0.00
27 SURR	Fluoranthene-d10	0.400	0.394	1.5	101	0.00
28	Fluoranthene	0.400	0.393	1.8	101	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	104	0.00
30	Pyrene	0.400	0.377	5.8	100	0.00
31 S	Terphenyl-d14	0.400	0.380	5.0	100	0.00
32	Benzo(a)anthracene	0.400	0.387	3.3	103	0.00
33	Chrysene	0.400	0.403	-0.8	104	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.379	5.3	101	0.00
35 I	Perylene-d12	0.400	0.400	0.0	109	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.421	-5.2	116	0.00
37	Benzo(b)fluoranthene	0.400	0.386	3.5	111	0.00
38	Benzo(k)fluoranthene	0.400	0.383	4.3	106	0.00
39 C	Benzo(a)pyrene	0.400	0.396	1.0	110	0.00
40	Dibenzo(a,h)anthracene	0.400	0.413	-3.2	113	0.00
41	Benzo(g,h,i)perylene	0.400	0.418	-4.5	113	0.00

(#) = Out of Range

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



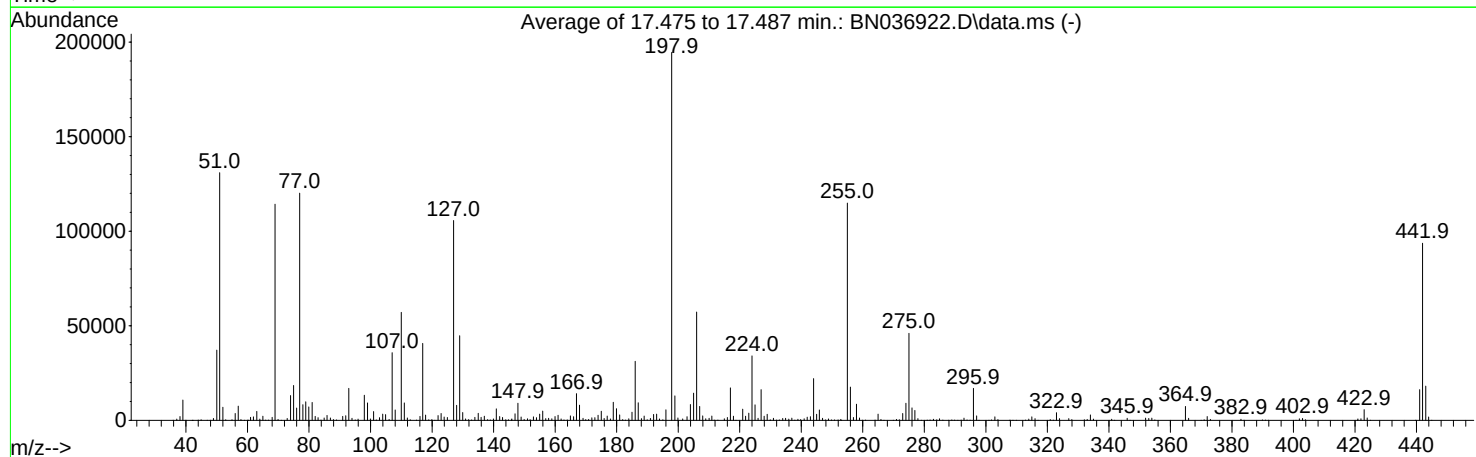
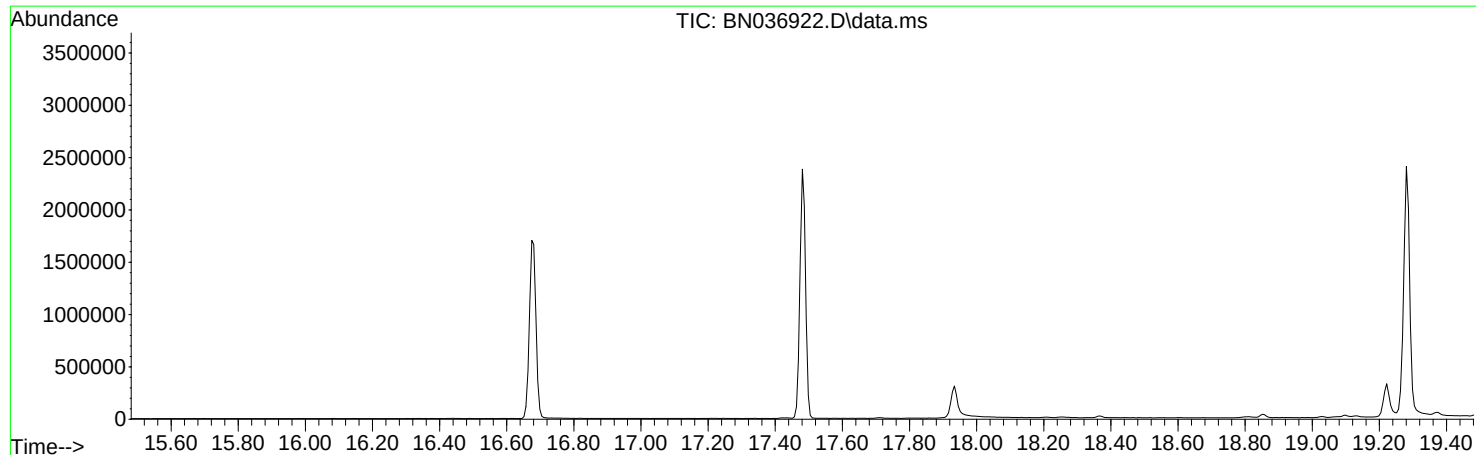
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036922.D
Acq On : 28 Apr 2025 10:56
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-BN042825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Apr 28 15:35:03 2025



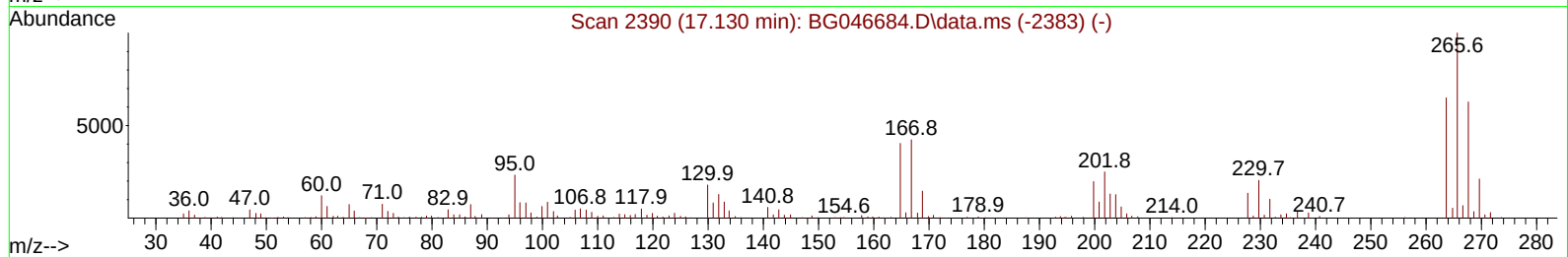
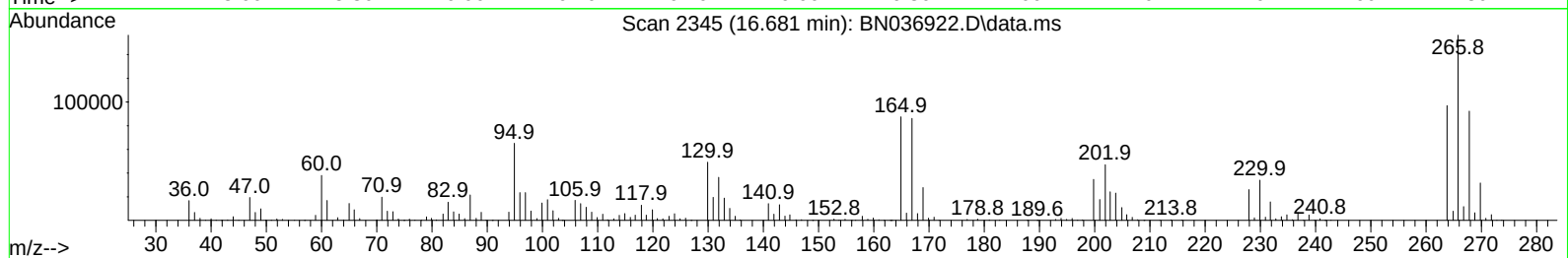
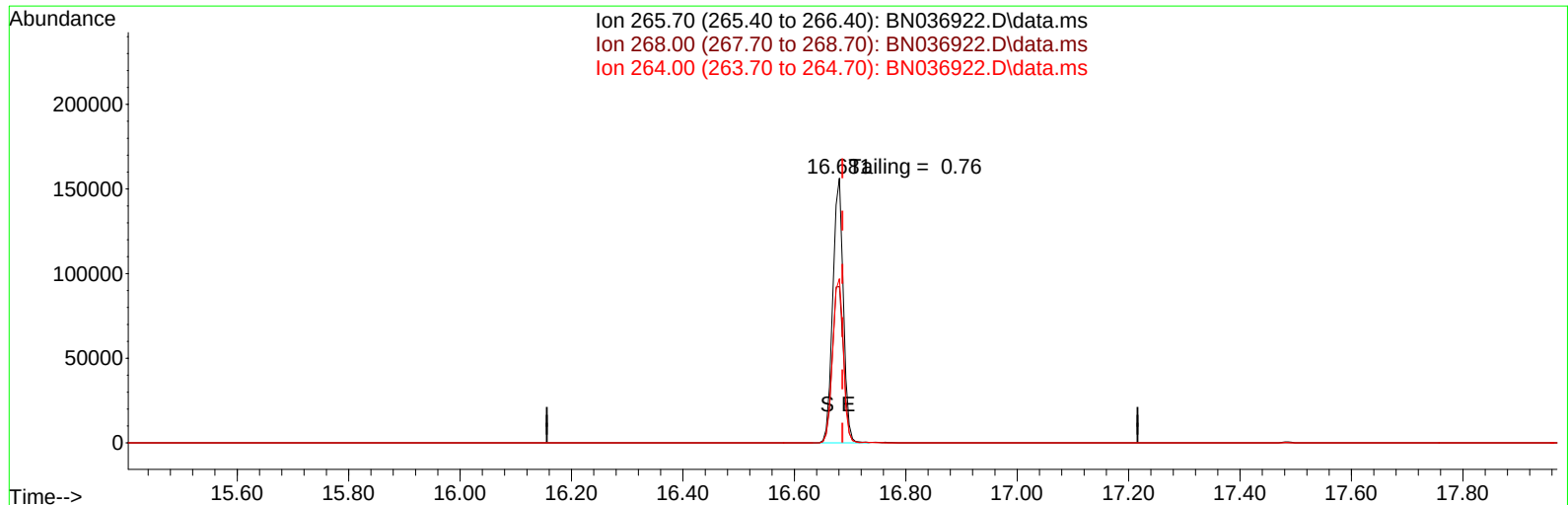
AutoFind: Scans 2480, 2481, 2482; Background Corrected with Scan 2473

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	67.4	130988	PASS
68	69	0.00	2	1.4	1628	PASS
69	198	0.00	100	58.8	114280	PASS
70	69	0.00	2	0.4	478	PASS
127	198	10	80	54.3	105632	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	194475	PASS
199	198	5	9	6.7	12991	PASS
275	198	10	60	23.7	46040	PASS
365	198	1	100	3.8	7407	PASS
441	198	0.01	100	8.4	16253	PASS
442	442	50	100	100.0	93637	PASS
443	442	15	24	19.4	18149	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036922.D
Acq On : 28 Apr 2025 10:56
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Apr 28 16:10:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 23:51:57 2025
Response via : Initial Calibration



TIC: BN036922.D\data.ms

(70) Pentachlorophenol (C)

16.681min (-0.005) 20278.92 ng

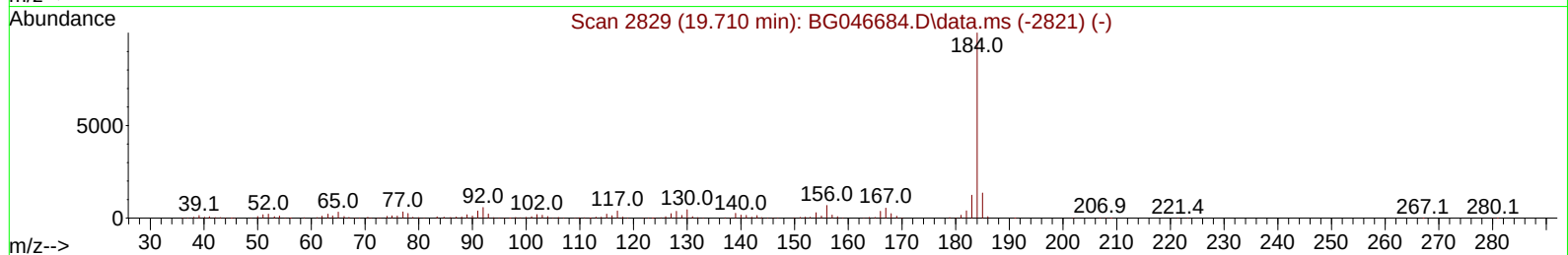
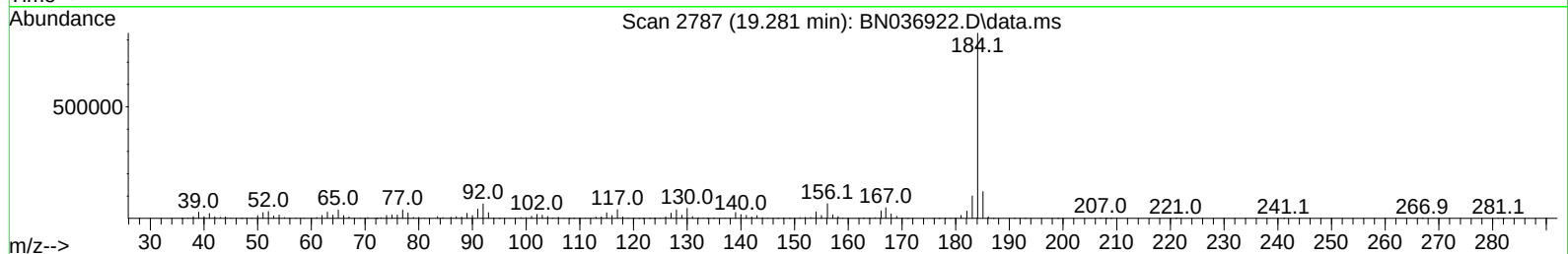
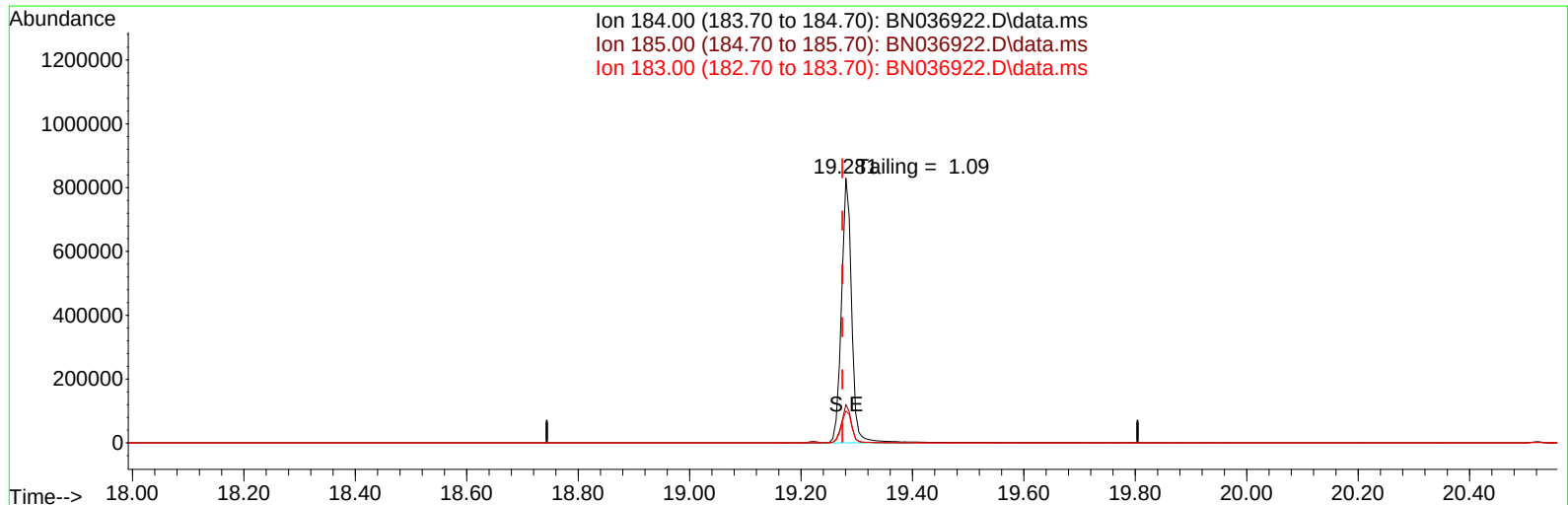
response 204659

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	59.04
264.00	61.60	61.99
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036922.D
Acq On : 28 Apr 2025 10:56
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Apr 28 16:10:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 23:51:57 2025
Response via : Initial Calibration



TIC: BN036922.D\data.ms

(77) Benzidine

19.281min (+ 0.006) 0.00 ng

response 1065531

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.51
183.00	13.20	12.08
0.00	0.00	0.00

Instrument :
 BNA_N
 ClientSampleId :
 DFTPP

DDT Breakdown

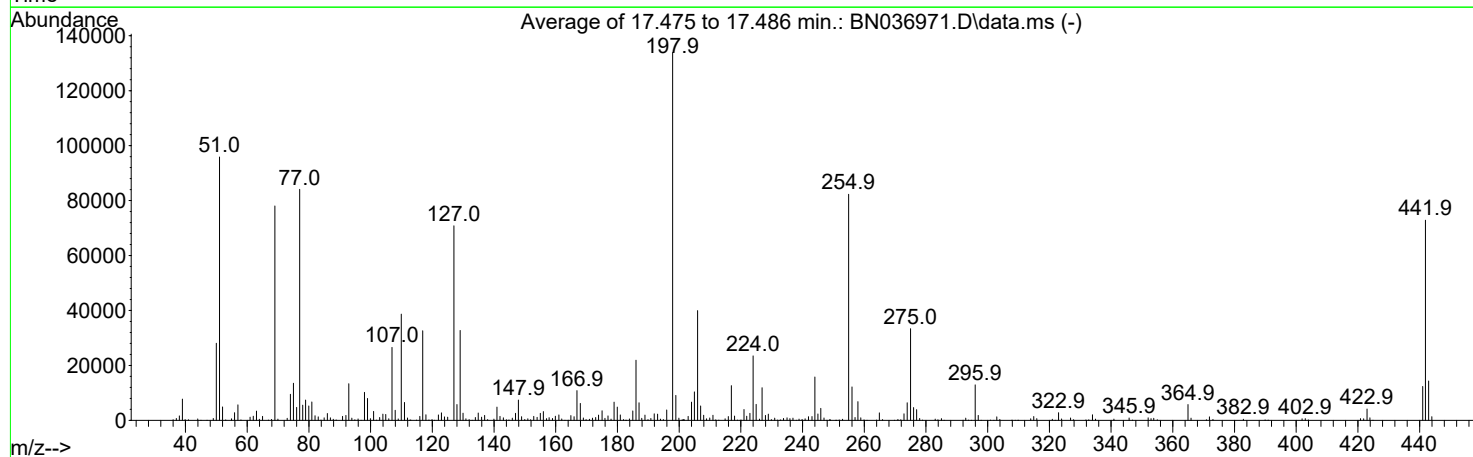
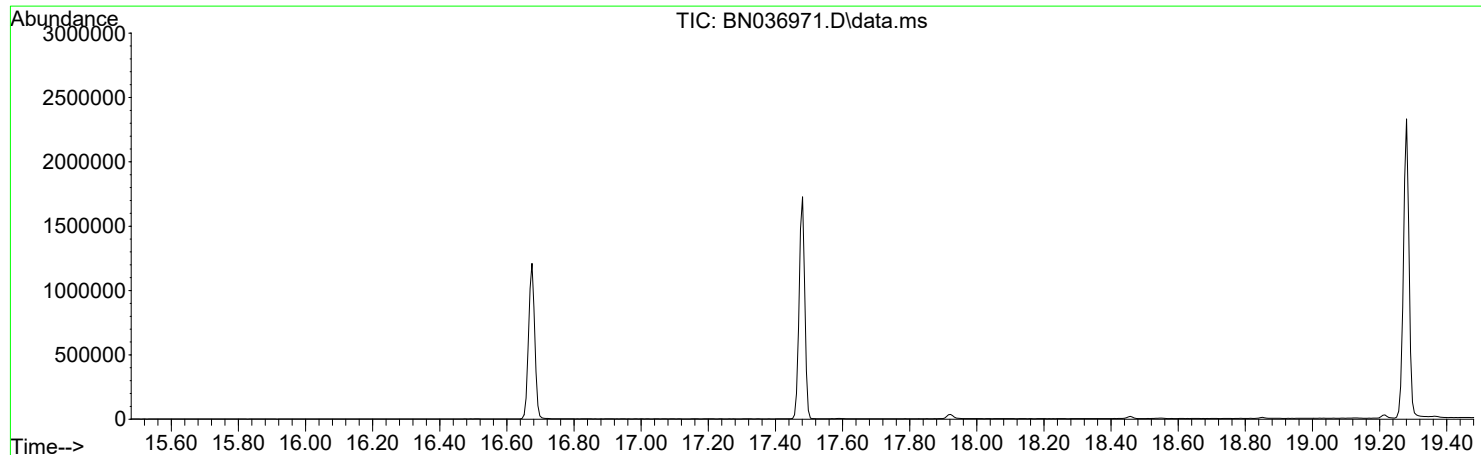
Date	Instrument Name	DFTPP Data File
4/28/2025	BNA_N	<u>BN036922.D</u>
Compound Name	Response	Retention Time
DDT	653394	20.522
DDD	6192	20.133
DDE	0	19.621
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
6192	659586	0.94

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050825\
Data File : BN036971.D
Acq On : 08 May 2025 13:49
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-BN042825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Apr 28 15:35:03 2025



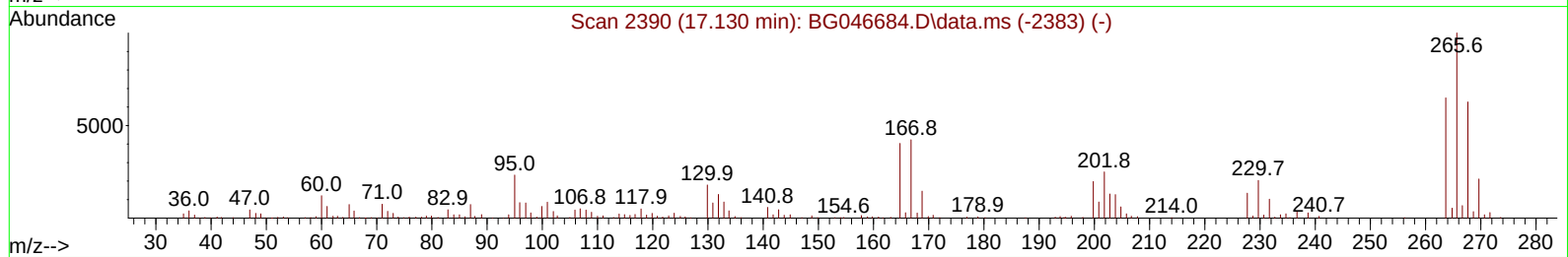
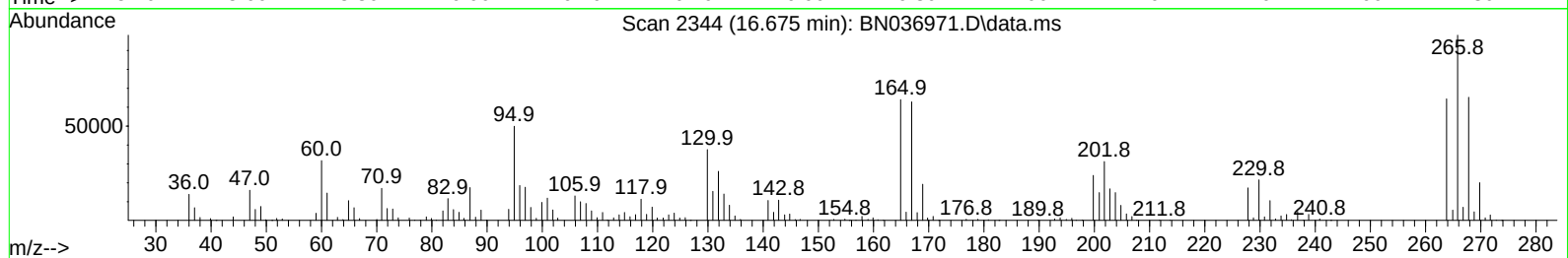
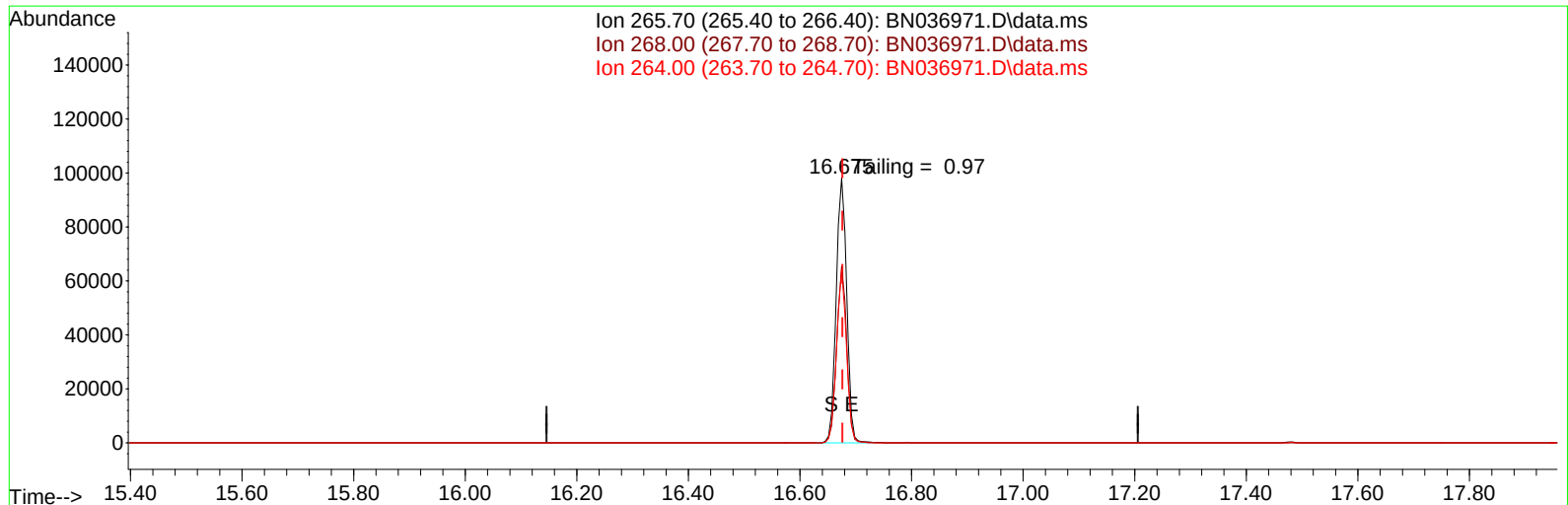
AutoFind: Scans 2480, 2481, 2482; Background Corrected with Scan 2473

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	71.6	95861	PASS
68	69	0.00	2	0.4	347	PASS
69	198	0.00	100	58.3	78027	PASS
70	69	0.00	2	0.6	481	PASS
127	198	10	80	52.9	70819	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	133899	PASS
199	198	5	9	6.8	9104	PASS
275	198	10	60	24.9	33392	PASS
365	198	1	100	4.3	5794	PASS
441	198	0.01	100	9.2	12369	PASS
442	442	50	100	100.0	72864	PASS
443	442	15	24	19.7	14358	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050825\
Data File : BN036971.D
Acq On : 08 May 2025 13:49
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: May 08 17:01:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 23:51:57 2025
Response via : Initial Calibration



TIC: BN036971.D\data.ms

(70) Pentachlorophenol (C)

16.675min (-0.001) 17886.24 ng

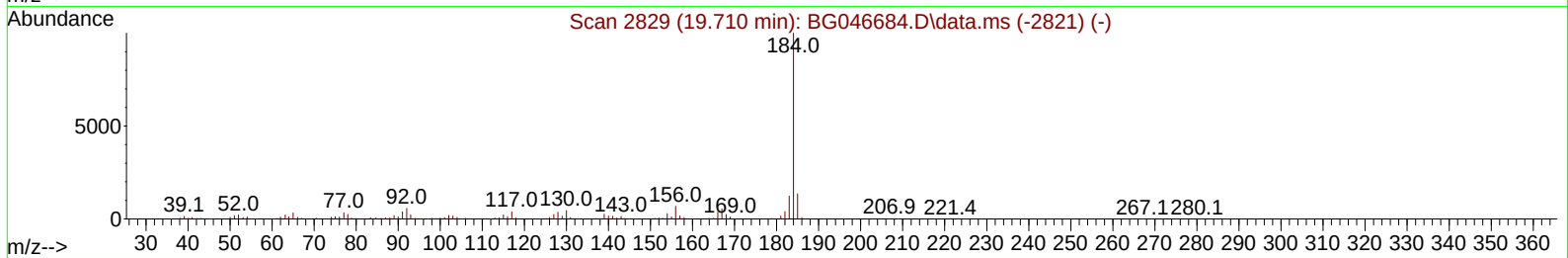
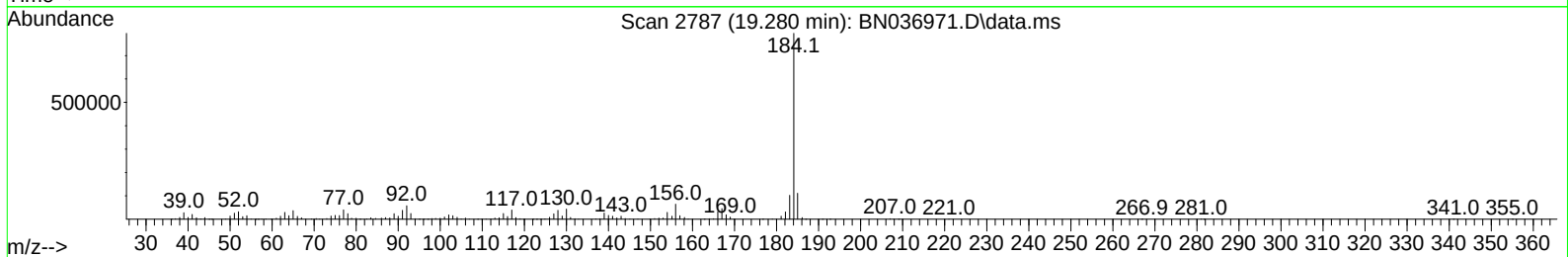
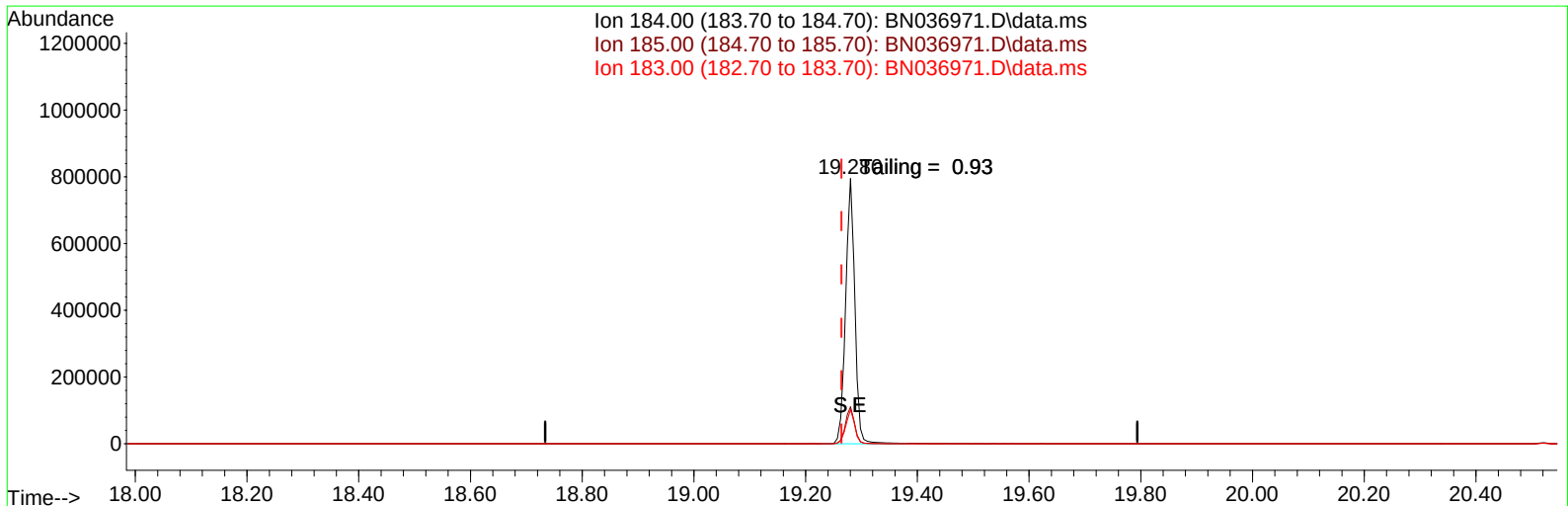
response 128997

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	66.51
264.00	61.60	65.67
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050825\
Data File : BN036971.D
Acq On : 08 May 2025 13:49
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: May 08 17:01:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 23:51:57 2025
Response via : Initial Calibration



TIC: BN036971.D\data.ms

(77) Benzdine

19.280min (+ 0.016) 0.00 ng

response 917971

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.00
183.00	13.20	12.91
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

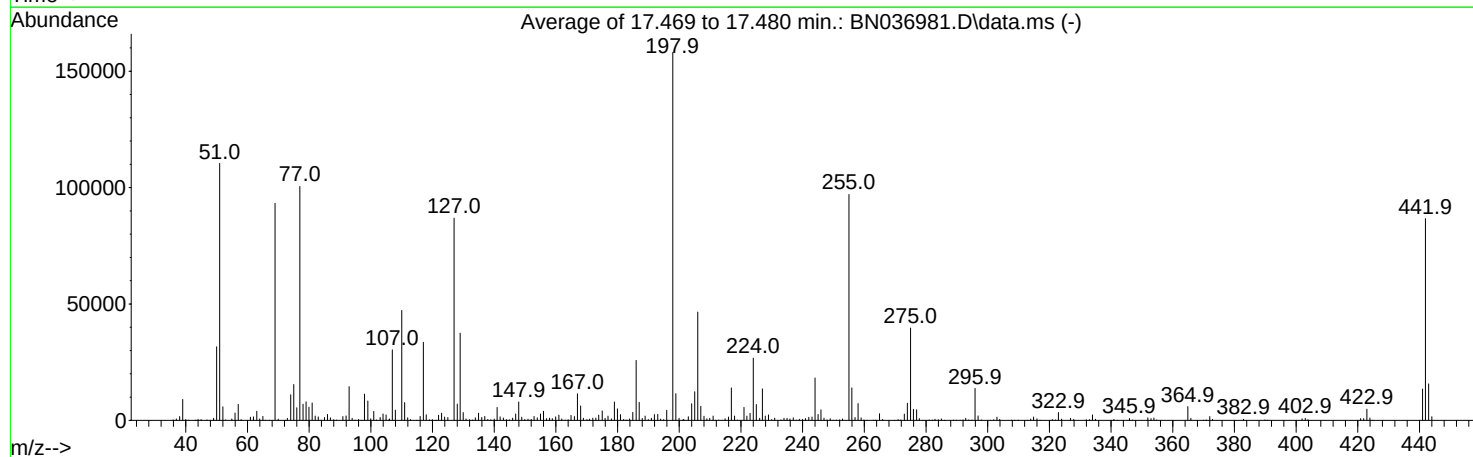
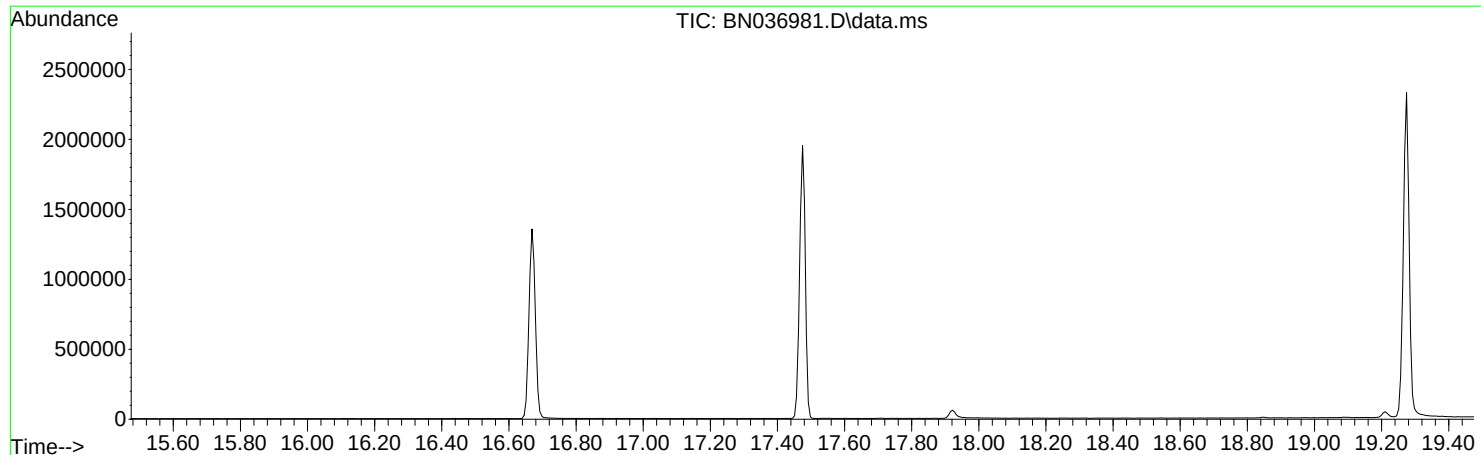
Date	Instrument Name	DFTPP Data File
5/8/2025	BNA_N	<u>BN036971.D</u>
Compound Name	Response	Retention Time
DDT	487037	20.522
DDD	4120	20.133
DDE	63	19.569
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
4183	491220	0.85

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051225\
Data File : BN036981.D
Acq On : 12 May 2025 13:04
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-BN051225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon May 12 18:05:36 2025



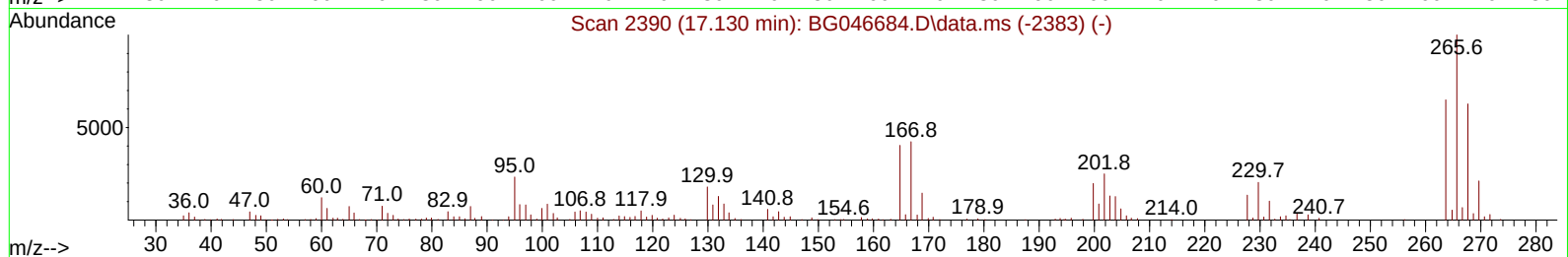
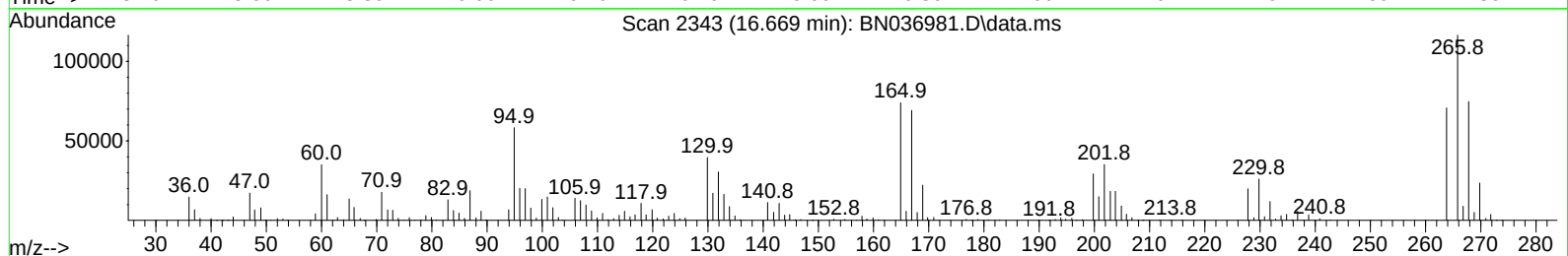
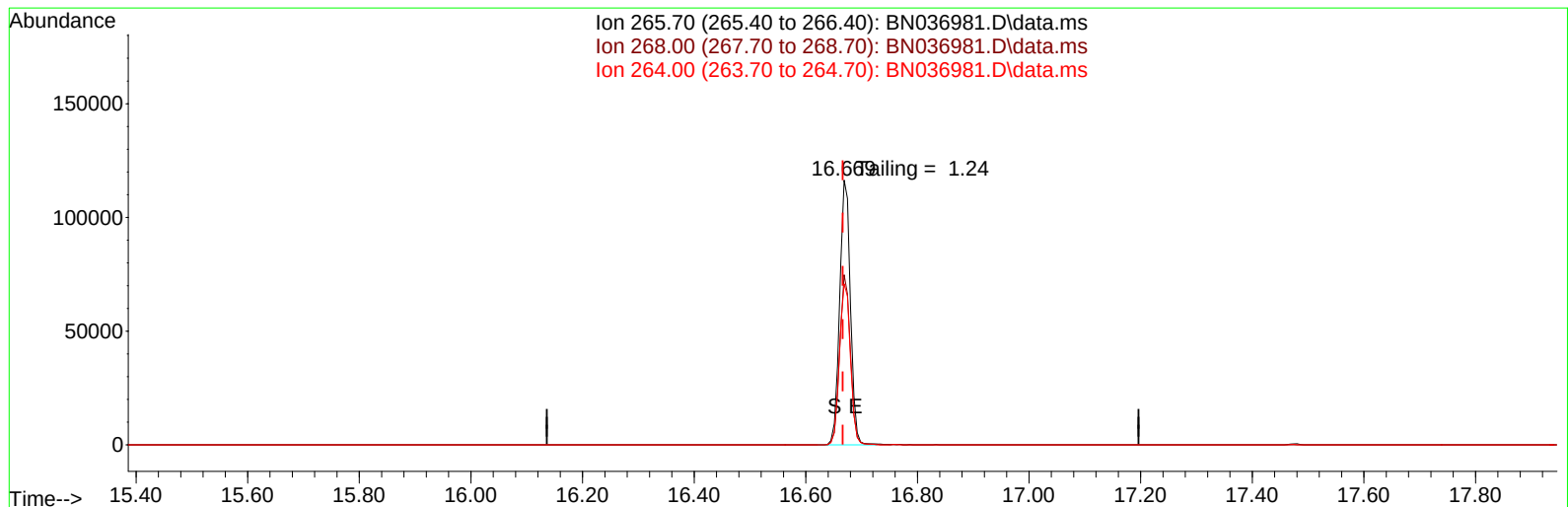
AutoFind: Scans 2479, 2480, 2481; Background Corrected with Scan 2472

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	69.8	110372	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	59.0	93309	PASS
70	69	0.00	2	0.6	525	PASS
127	198	10	80	55.0	86912	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	158037	PASS
199	198	5	9	7.3	11485	PASS
275	198	10	60	25.1	39640	PASS
365	198	1	100	3.8	5930	PASS
441	198	0.01	100	8.5	13485	PASS
442	442	50	100	100.0	86653	PASS
443	442	15	24	18.1	15692	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051225\
Data File : BN036981.D
Acq On : 12 May 2025 13:04
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: May 12 18:21:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 23:51:57 2025
Response via : Initial Calibration



TIC: BN036981.D\data.ms

(70) Pentachlorophenol (C)

16.669min (+ 0.003) 17561.04 ng

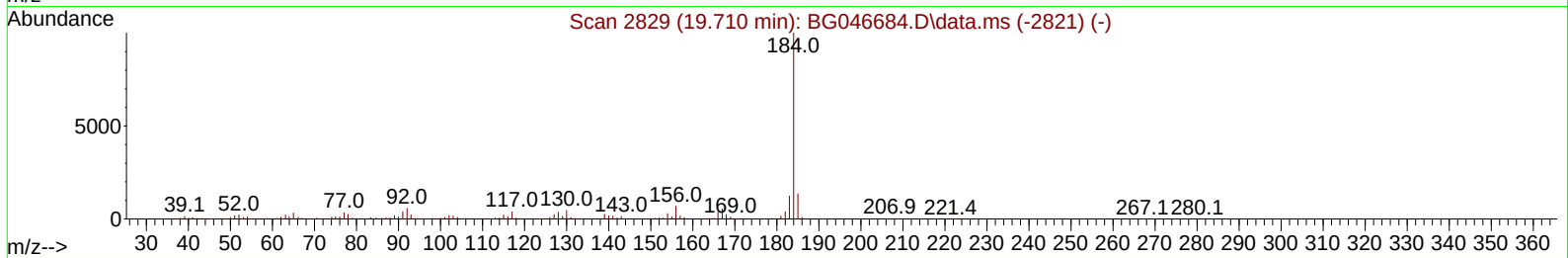
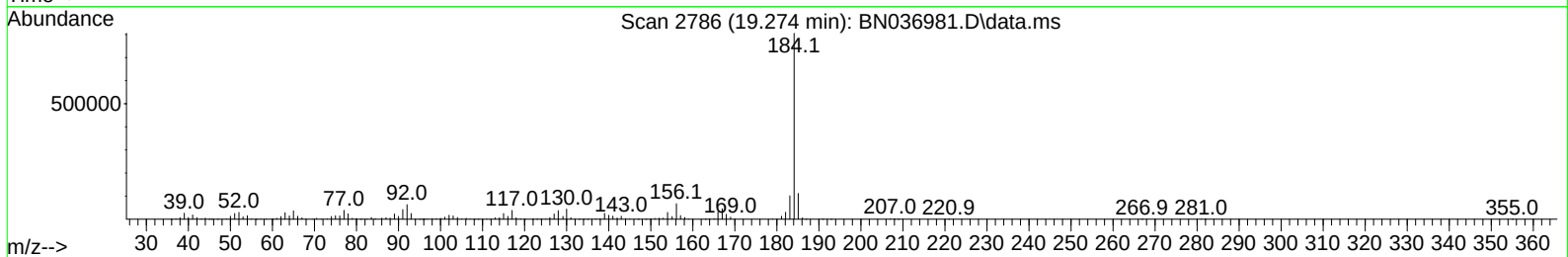
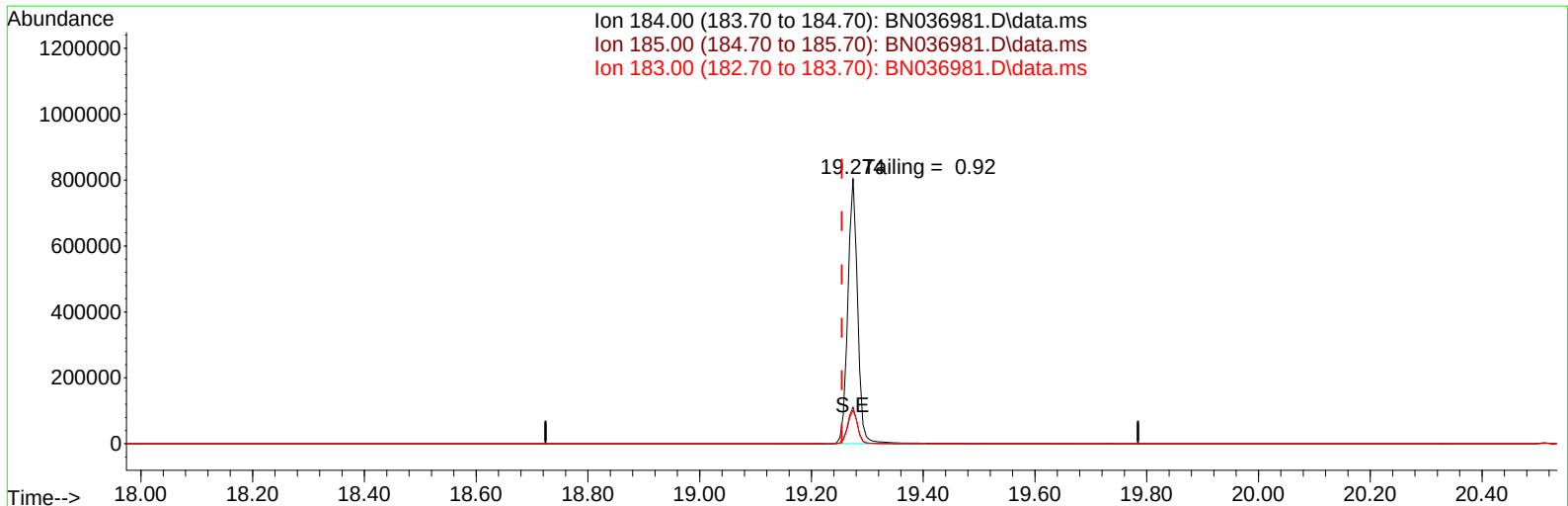
response 156144

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.20
264.00	61.60	60.82
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051225\
Data File : BN036981.D
Acq On : 12 May 2025 13:04
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: May 12 18:21:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 23:51:57 2025
Response via : Initial Calibration



TIC: BN036981.D\data.ms

(77) Benzidine

19.274min (+ 0.020) 0.00 ng

response 985685

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.90
183.00	13.20	12.59
0.00	0.00	0.00

DDT Breakdown

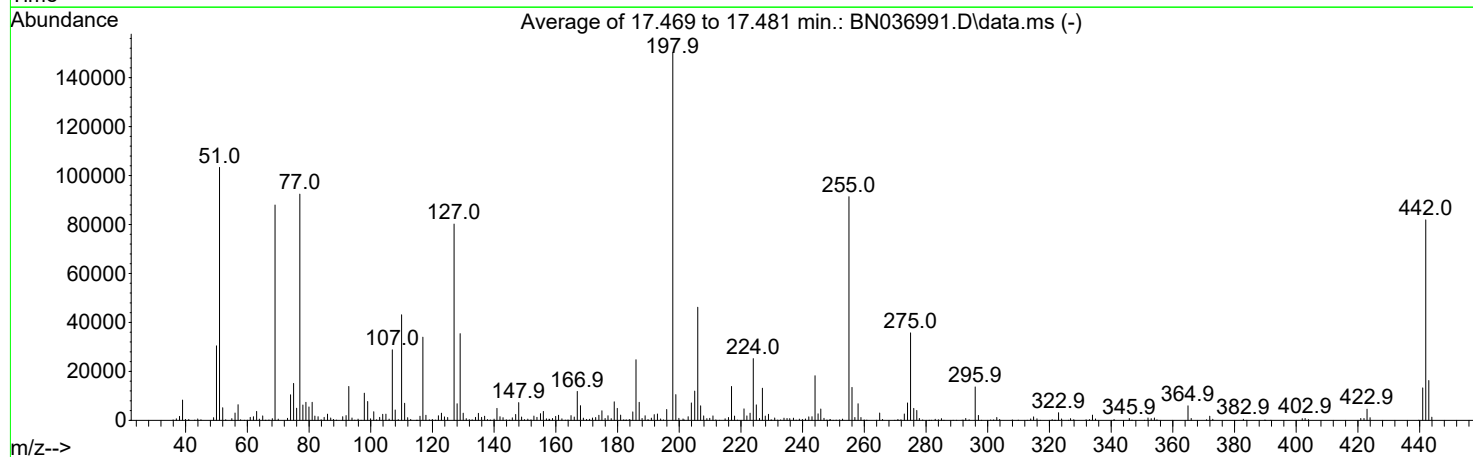
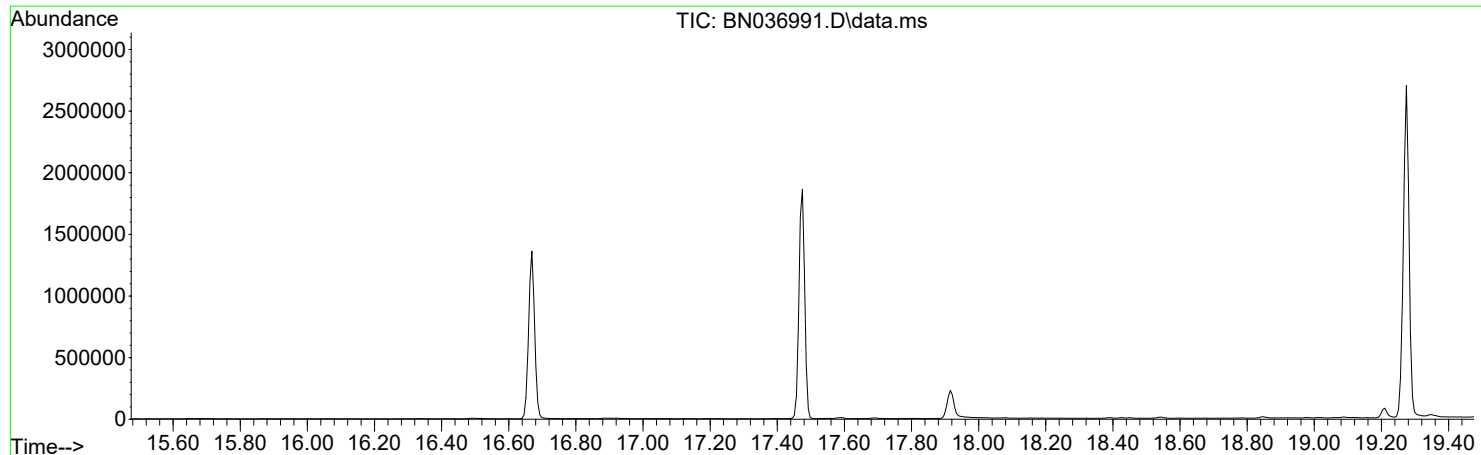
Date	Instrument Name	DFTPP Data File
5/12/2025	BNA_N	<u>BN036981.D</u>
Compound Name	Response	Retention Time
DDT	504877	20.516
DDD	5050	20.121
DDE	0	19.569
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
5050	509927	0.99

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051325\
Data File : BN036991.D
Acq On : 13 May 2025 09:55
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-BN051225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon May 12 18:05:36 2025



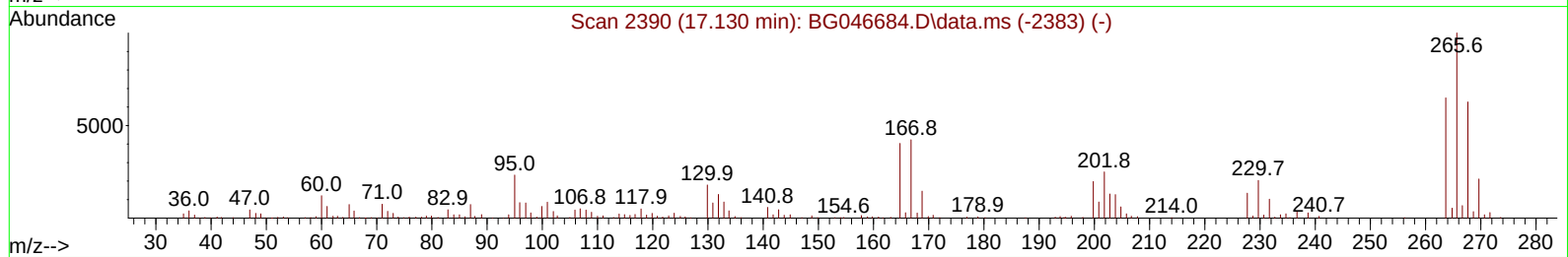
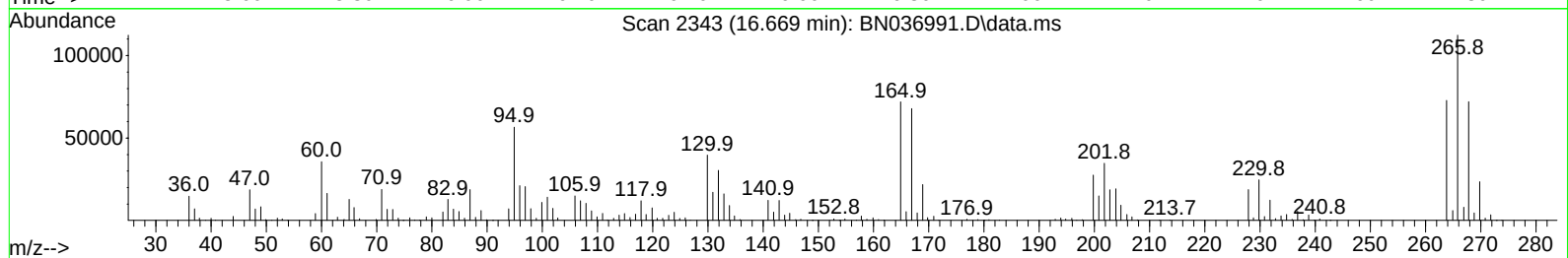
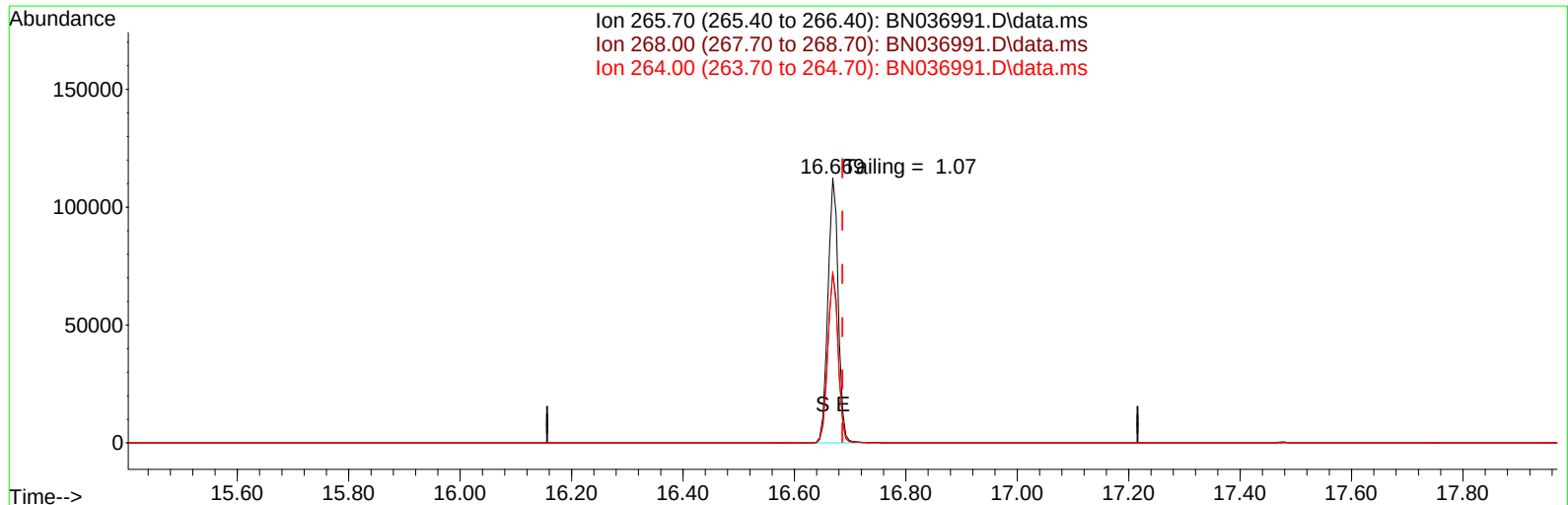
AutoFind: Scans 2479, 2480, 2481; Background Corrected with Scan 2472

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	68.8	103320	PASS
68	69	0.00	2	0.8	711	PASS
69	198	0.00	100	58.5	87979	PASS
70	69	0.00	2	0.6	516	PASS
127	198	10	80	53.4	80205	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	150269	PASS
199	198	5	9	7.0	10508	PASS
275	198	10	60	23.8	35755	PASS
365	198	1	100	3.9	5927	PASS
441	198	0.01	100	8.8	13271	PASS
442	442	50	100	100.0	81907	PASS
443	442	15	24	19.8	16248	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051325\
Data File : BN036991.D
Acq On : 13 May 2025 09:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: May 13 15:42:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 23:51:57 2025
Response via : Initial Calibration



TIC: BN036991.D\data.ms

(70) Pentachlorophenol (C)

16.669min (-0.017) 16816.24 ng

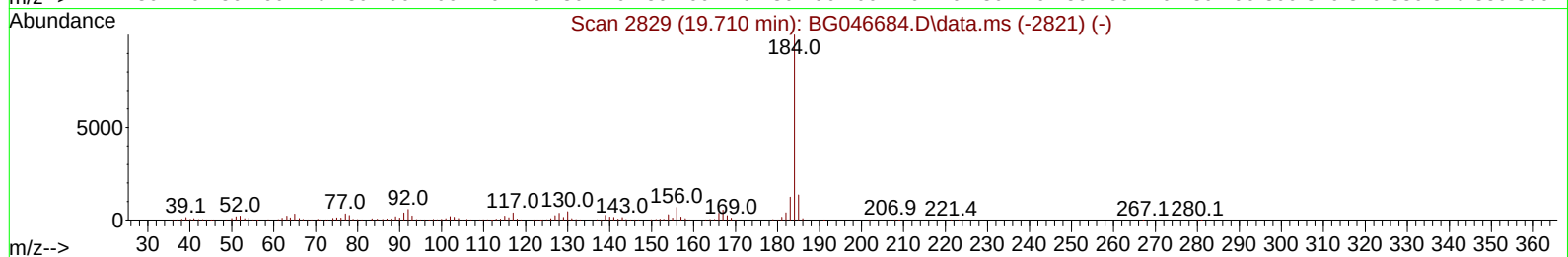
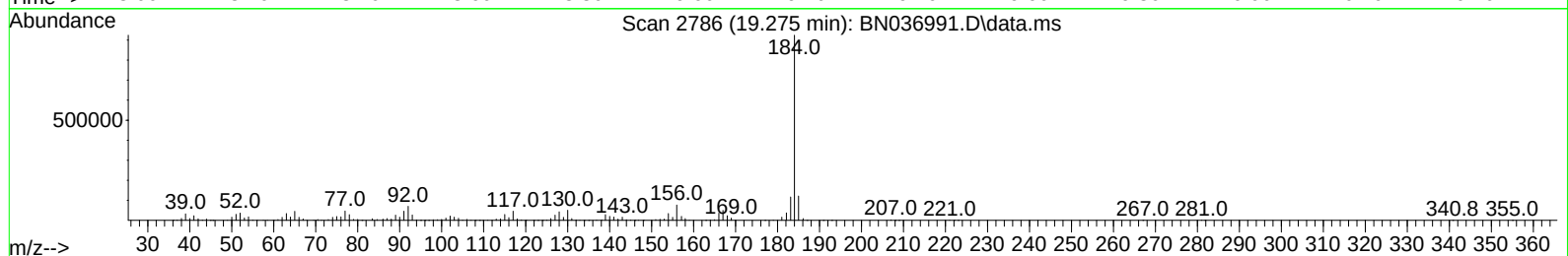
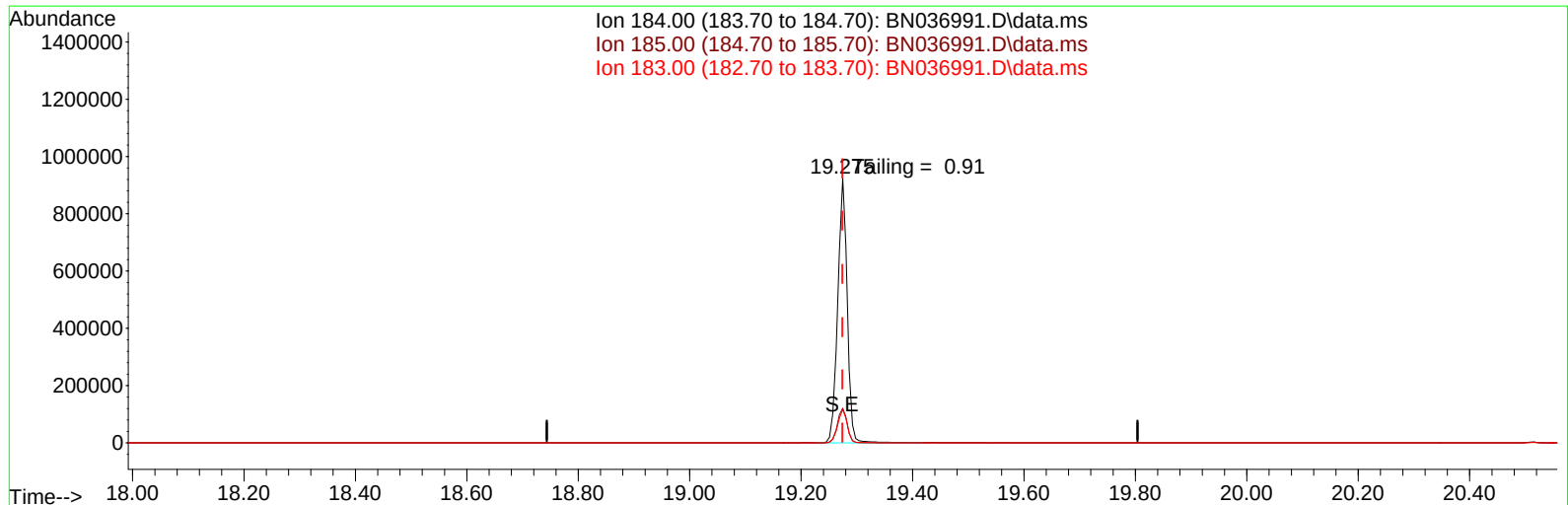
response 143451

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.16
264.00	61.60	64.82
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051325\
Data File : BN036991.D
Acq On : 13 May 2025 09:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: May 13 15:42:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 23:51:57 2025
Response via : Initial Calibration



TIC: BN036991.D\data.ms

(77) Benzidine

19.275min (+ 0.000) 0.00 ng m

response 1098248

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.12
183.00	13.20	12.64
0.00	0.00	0.00

Instrument :
 BNA_N
 ClientSampleId :
 DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
5/13/2025	BNA_N	<u>BN036991.D</u>
Compound Name	Response	Retention Time
DDT	537518	20.516
DDD	5973	20.122
DDE	151	19.569
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
6124	543642	1.13

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB167915BL	SDG No.:	Q1872
Lab Sample ID:	PB167915BL	Matrix:	SOIL
Analytical Method:	SW8270ESIM	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036973.D	1	05/08/25 10:03	05/08/25 15:04	PB167915

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1912-24-9	Atrazine	1.10	U	1.10	3.30	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.32		17 - 161	79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		23 - 138	91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		33 - 121	79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		32 - 121	78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.32		21 - 130	80%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1580		7.625		
1146-65-2	Naphthalene-d8	3770		10.415		
15067-26-2	Acenaphthene-d10	2030		14.277		
1517-22-2	Phenanthrene-d10	4070		17.021		
1719-03-5	Chrysene-d12	3600		21.215		
1520-96-3	Perylene-d12	3530		23.421		

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\BN050825\
Data File : BN036973.D
Acq On : 08 May 2025 15:04
Operator : RC/JU
Sample : PB167915BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167915BL

Quant Time: May 08 15:33:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.625	152	1580	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	3771	0.400	ng	# 0.00
13) Acenaphthene-d10	14.277	164	2026	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	4065	0.400	ng	0.00
29) Chrysene-d12	21.215	240	3603	0.400	ng	0.00
35) Perylene-d12	23.421	264	3531	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	1378	0.341	ng	0.00
5) Phenol-d6	6.809	99	1504	0.302	ng	0.00
8) Nitrobenzene-d5	8.781	82	1245	0.316	ng	0.00
11) 2-Methylnaphthalene-d10	12.016	152	1668	0.316	ng	0.00
14) 2,4,6-Tribromophenol	15.780	330	206	0.228	ng	0.01
15) 2-Fluorobiphenyl	12.904	172	3042	0.311	ng	0.00
27) Fluoranthene-d10	19.059	212	3843	0.365	ng	0.00
31) Terphenyl-d14	19.663	244	2733	0.321	ng	0.00

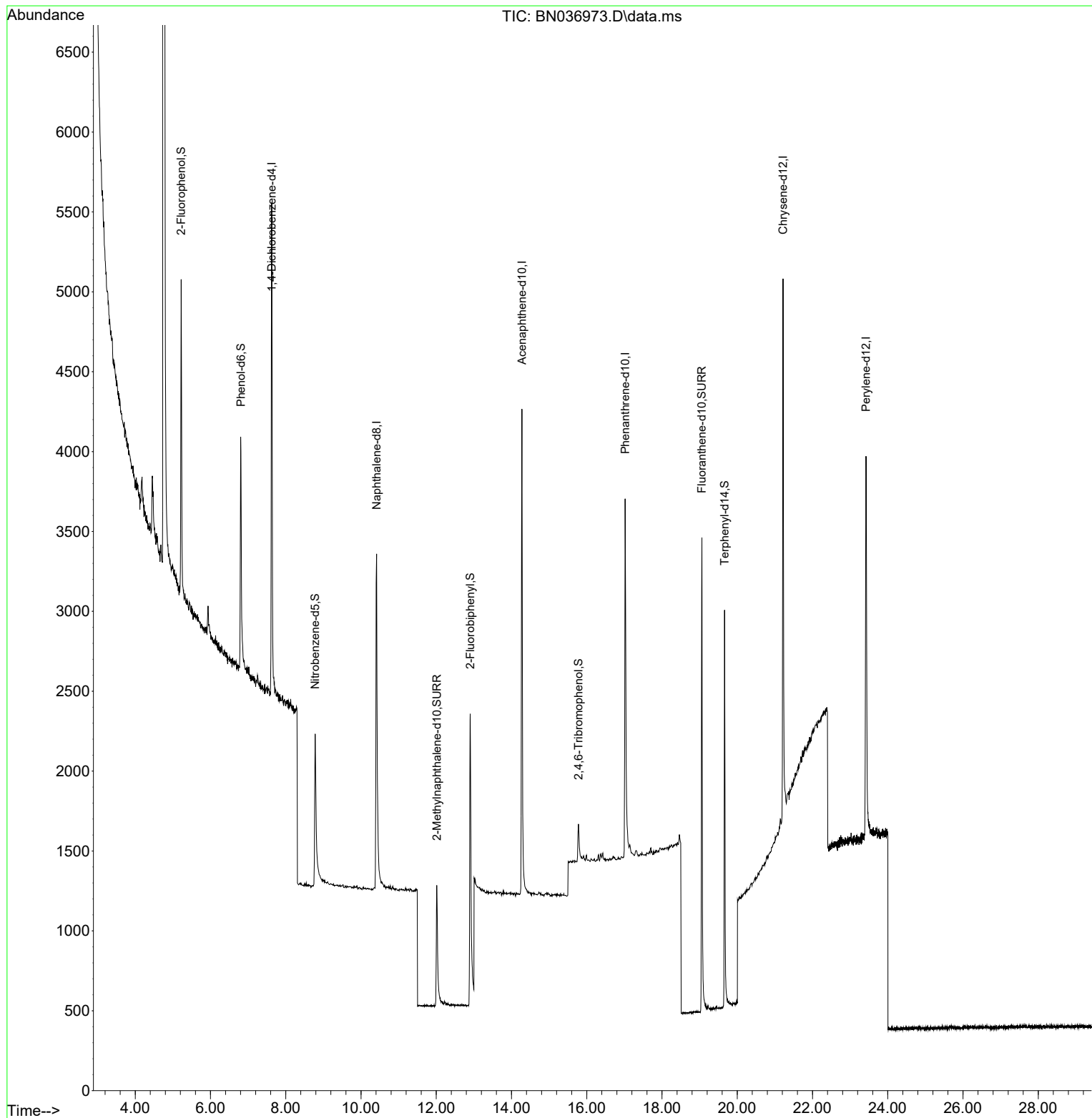
Target Compounds Qvalue

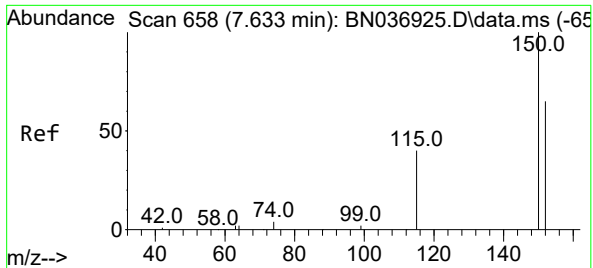
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050825\
Data File : BN036973.D
Acq On : 08 May 2025 15:04
Operator : RC/JU
Sample : PB167915BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167915BL

Quant Time: May 08 15:33:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

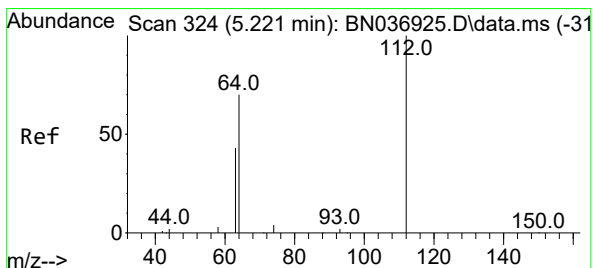
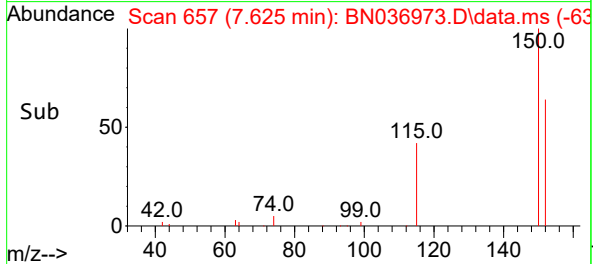
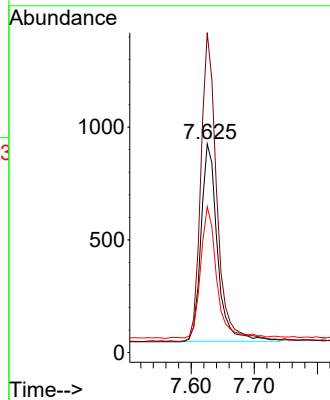
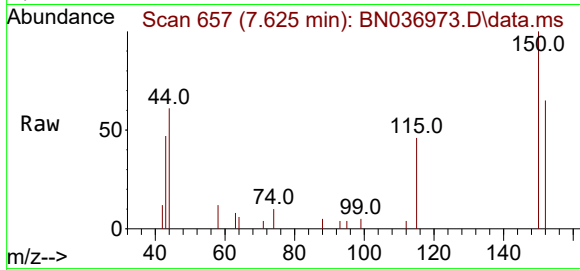




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.625 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN036973.D
Acq: 08 May 2025 15:04

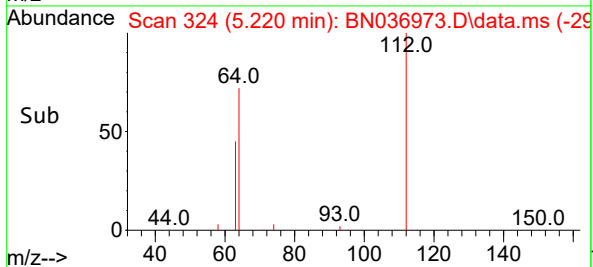
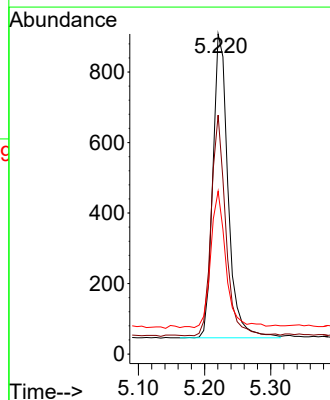
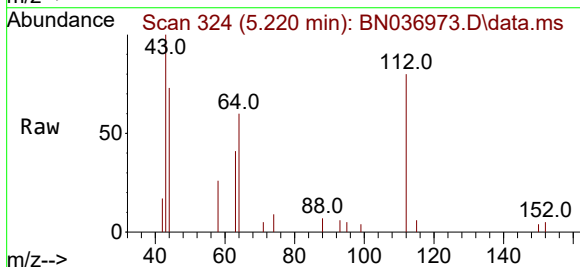
Instrument :
BNA_N
ClientSampleId :
PB167915BL

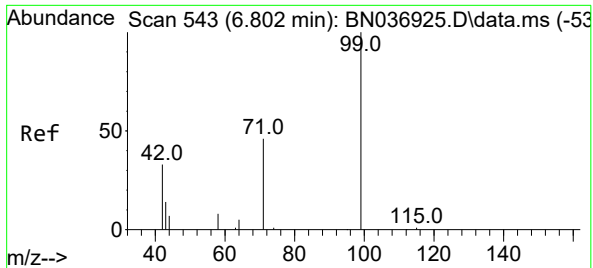
Tgt Ion:152 Resp: 1580
Ion Ratio Lower Upper
152 100
150 153.2 121.1 181.7
115 69.9 51.8 77.6



#4
2-Fluorophenol
Concen: 0.341 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN036973.D
Acq: 08 May 2025 15:04

Tgt Ion:112 Resp: 1378
Ion Ratio Lower Upper
112 100
64 69.4 55.7 83.5
63 43.0 33.9 50.9

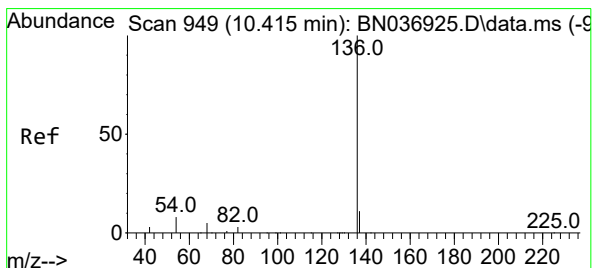
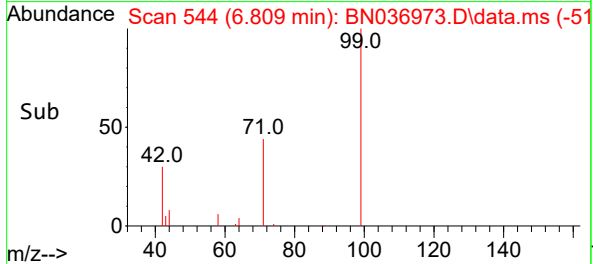
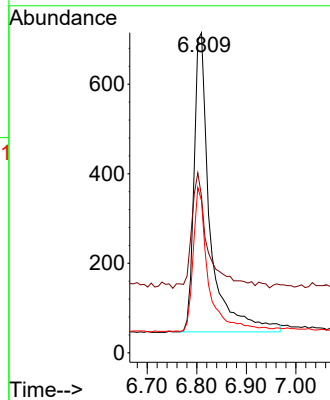
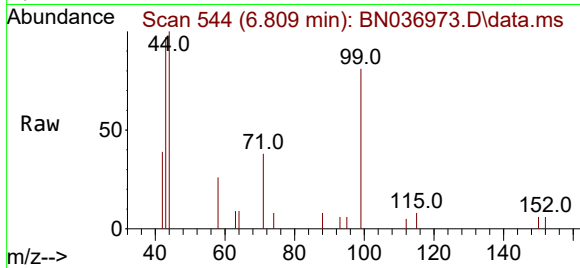




#5
Phenol-d6
Concen: 0.302 ng
RT: 6.809 min Scan# 543
Delta R.T. 0.007 min
Lab File: BN036973.D
Acq: 08 May 2025 15:04

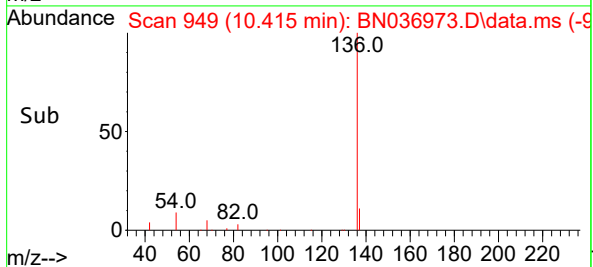
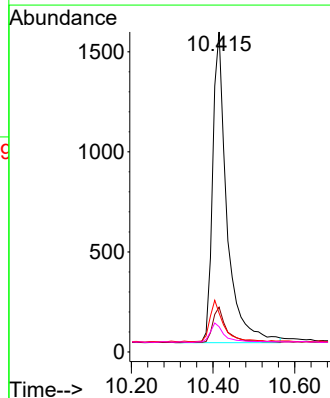
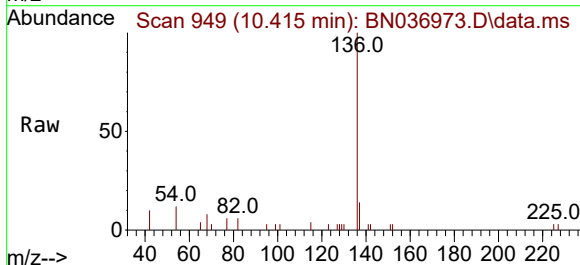
Instrument :
BNA_N
ClientSampleId :
PB167915BL

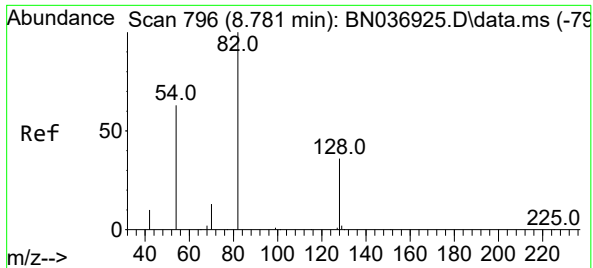
Tgt Ion	Ratio	Lower	Upper
99	100		
42	39.2	29.6	44.4
71	45.9	36.0	54.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036973.D
Acq: 08 May 2025 15:04

Tgt Ion	Ratio	Lower	Upper
136	100		
137	14.0	9.7	14.5
54	12.1	8.0	12.0#
68	7.9	5.1	7.7#

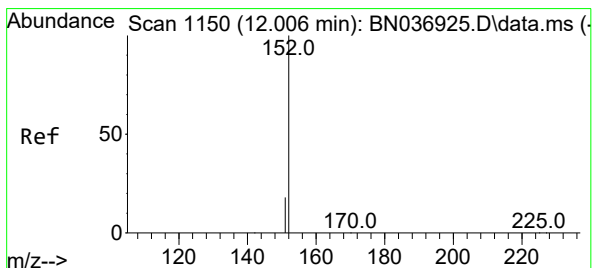
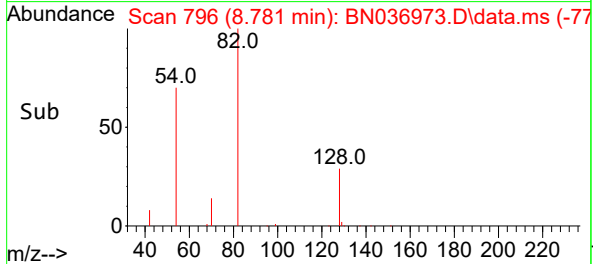
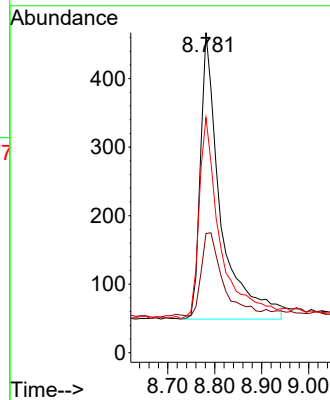
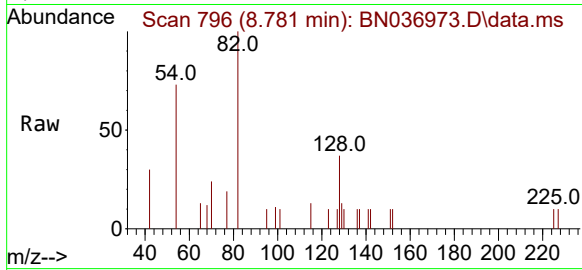




#8
Nitrobenzene-d5
Concen: 0.316 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036973.D
Acq: 08 May 2025 15:04

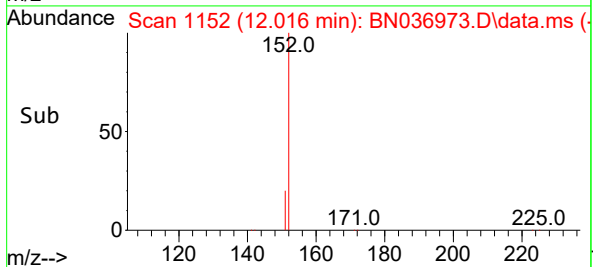
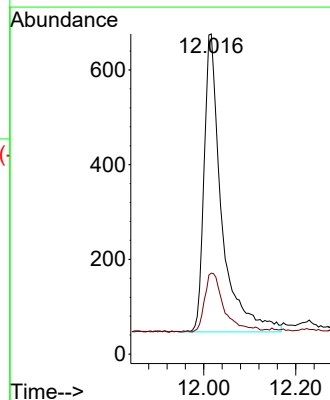
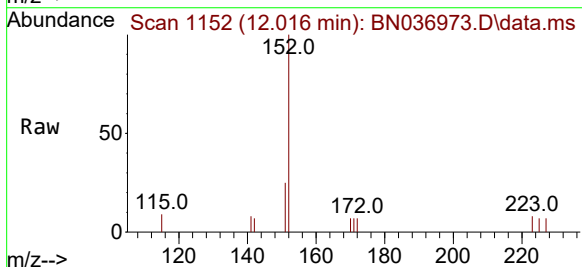
Instrument :
BNA_N
ClientSampleId :
PB167915BL

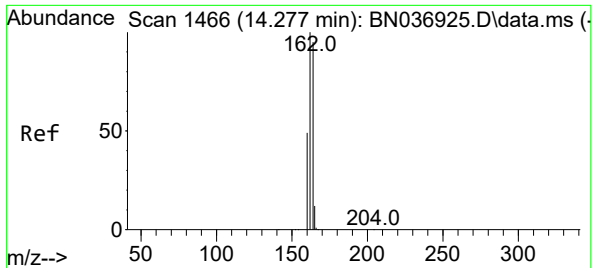
Tgt Ion: 82 Resp: 1245
Ion Ratio Lower Upper
82 100
128 37.3 30.7 46.1
54 73.4 52.1 78.1



#11
2-Methylnaphthalene-d10
Concen: 0.316 ng
RT: 12.016 min Scan# 1152
Delta R.T. 0.010 min
Lab File: BN036973.D
Acq: 08 May 2025 15:04

Tgt Ion: 152 Resp: 1668
Ion Ratio Lower Upper
152 100
151 21.8 16.9 25.3

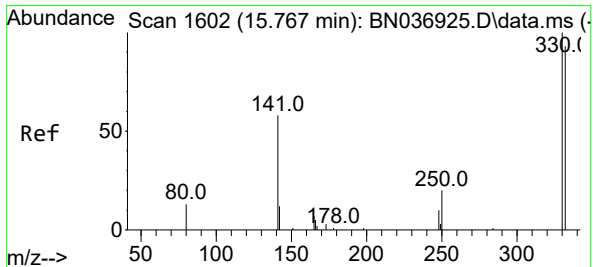
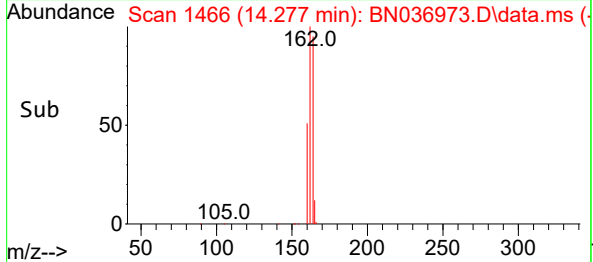
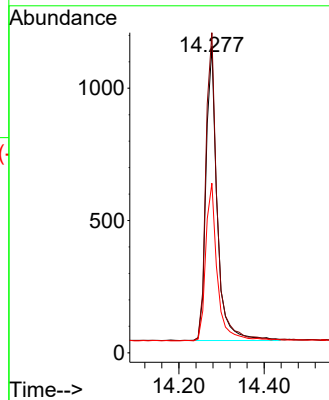
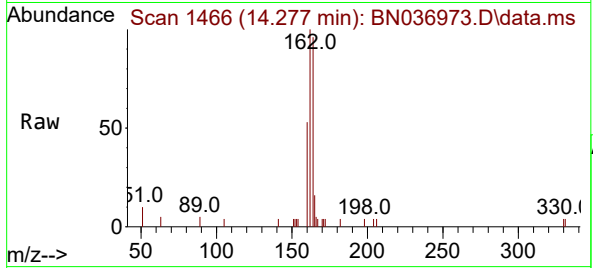




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036973.D
Acq: 08 May 2025 15:04

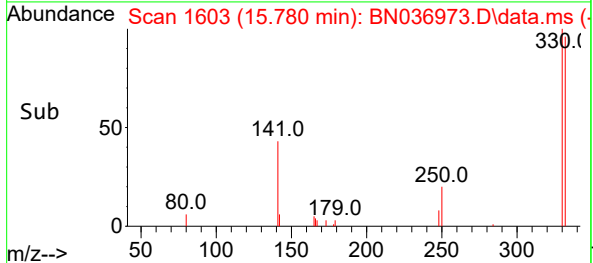
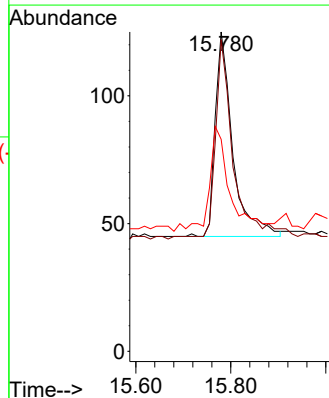
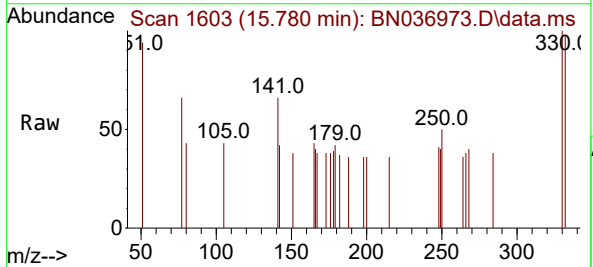
Instrument :
BNA_N
ClientSampleId :
PB167915BL

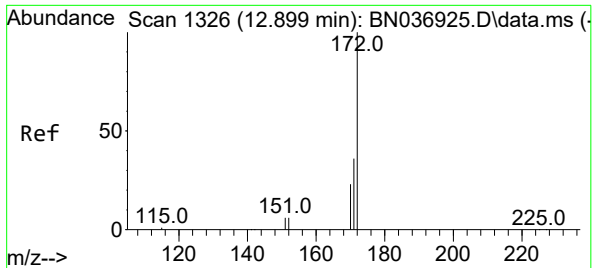
Tgt Ion:164 Resp: 2026
Ion Ratio Lower Upper
164 100
162 104.5 83.8 125.8
160 55.4 42.0 63.0



#14
2,4,6-Tribromophenol
Concen: 0.228 ng
RT: 15.780 min Scan# 1603
Delta R.T. 0.012 min
Lab File: BN036973.D
Acq: 08 May 2025 15:04

Tgt Ion:330 Resp: 206
Ion Ratio Lower Upper
330 100
332 92.2 76.3 114.5
141 59.2 45.4 68.2

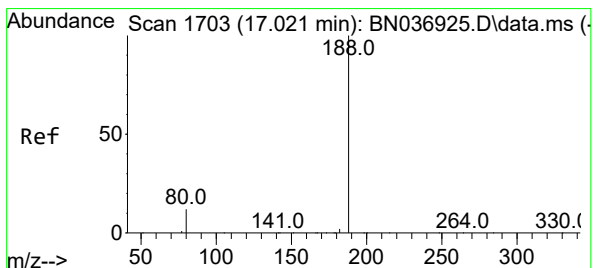
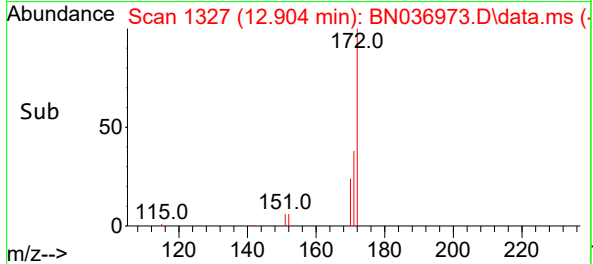
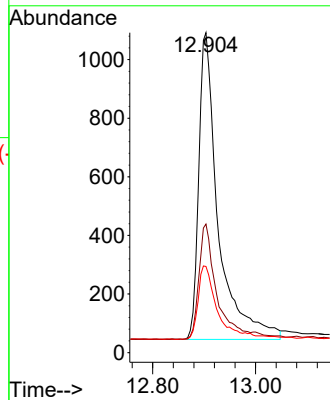
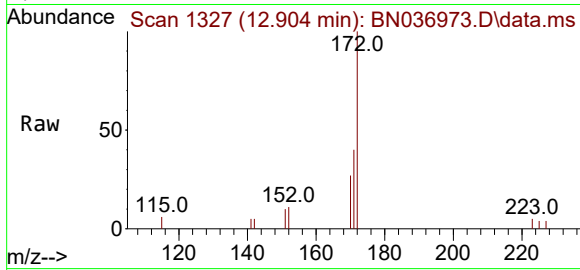




#15
2-Fluorobiphenyl
Concen: 0.311 ng
RT: 12.904 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN036973.D
Acq: 08 May 2025 15:04

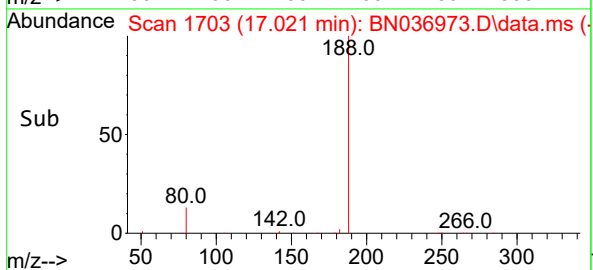
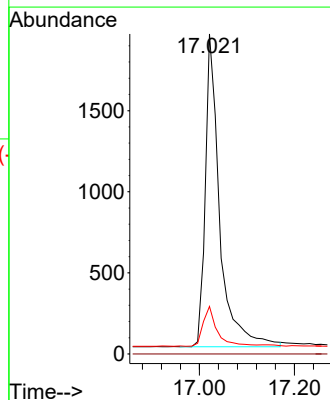
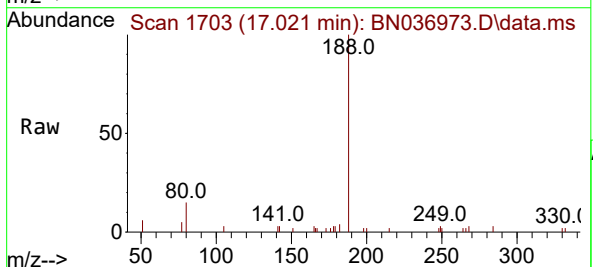
Instrument :
BNA_N
ClientSampleId :
PB167915BL

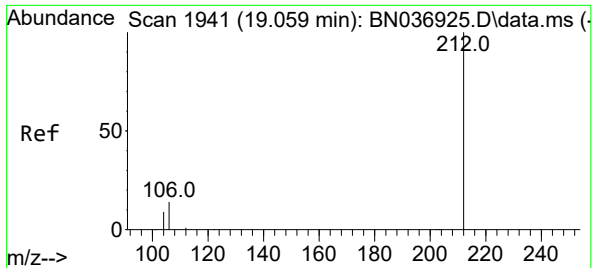
Tgt Ion:172 Resp: 3042
Ion Ratio Lower Upper
172 100
171 40.2 29.4 44.0
170 26.9 19.4 29.0



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN036973.D
Acq: 08 May 2025 15:04

Tgt Ion:188 Resp: 4065
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 14.9 10.7 16.1





#27

Fluoranthene-d10

Concen: 0.365 ng

RT: 19.059 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036973.D

Acq: 08 May 2025 15:04

Instrument :

BNA_N

ClientSampleId :

PB167915BL

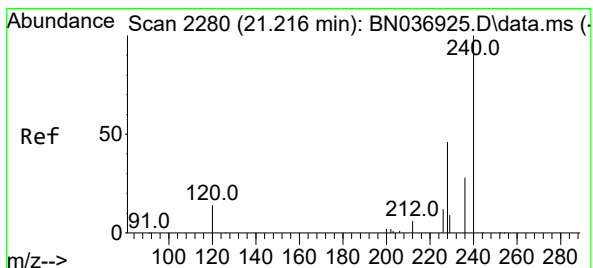
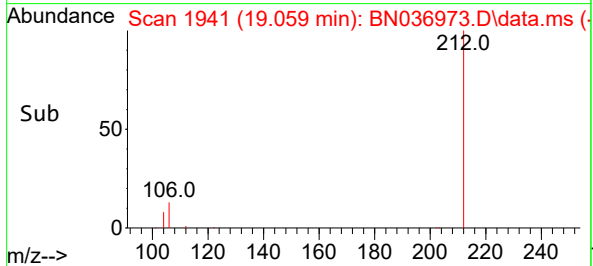
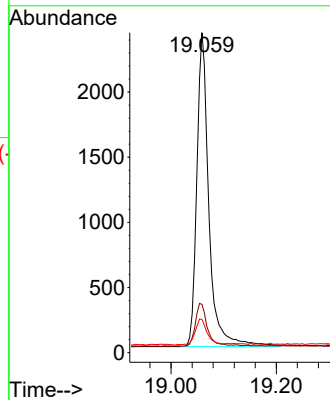
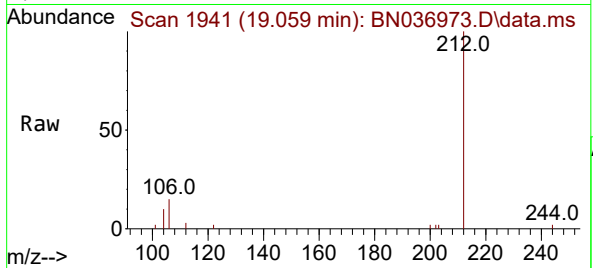
Tgt Ion:212 Resp: 3843

Ion Ratio Lower Upper

212 100

106 13.2 11.6 17.4

104 8.4 7.0 10.4



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.215 min Scan# 2280

Delta R.T. -0.000 min

Lab File: BN036973.D

Acq: 08 May 2025 15:04

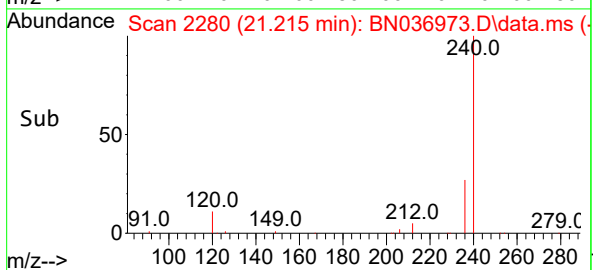
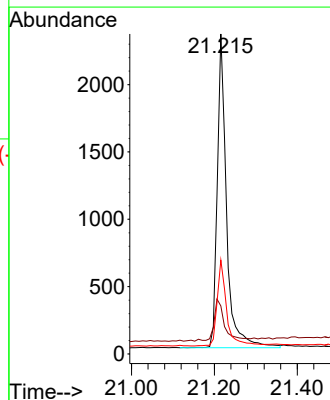
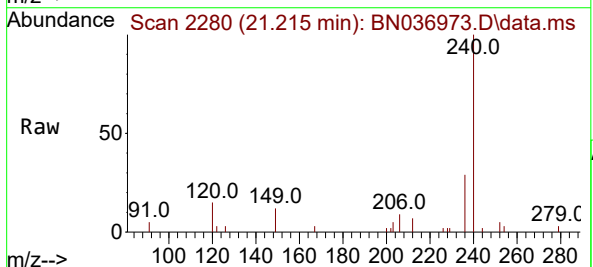
Tgt Ion:240 Resp: 3603

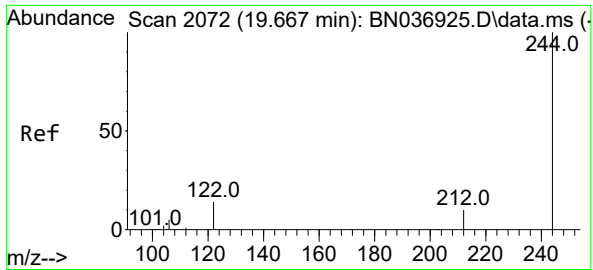
Ion Ratio Lower Upper

240 100

120 15.0 14.1 21.1

236 29.4 23.8 35.8

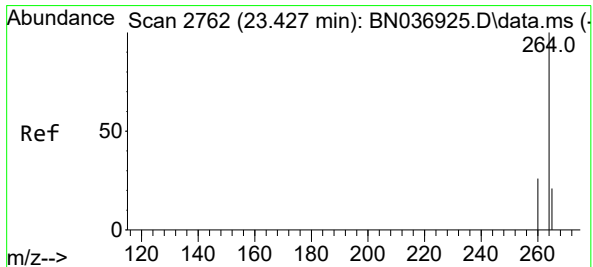
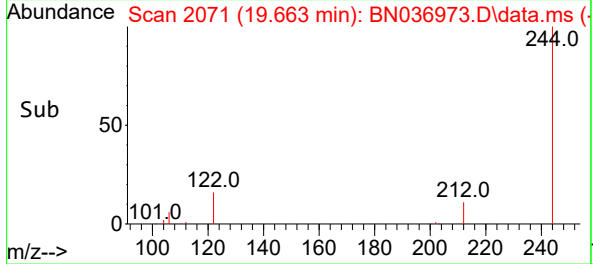
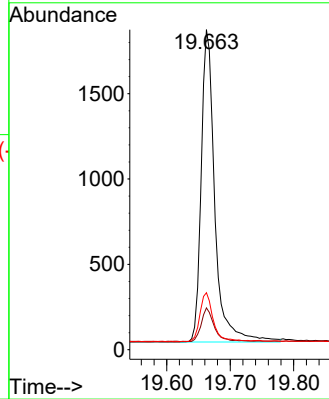
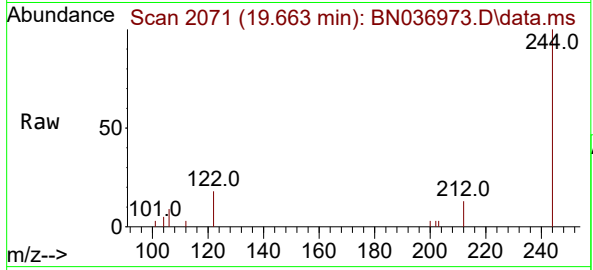




#31
Terphenyl-d14
Concen: 0.321 ng
RT: 19.663 min Scan# 2071
Delta R.T. -0.005 min
Lab File: BN036973.D
Acq: 08 May 2025 15:04

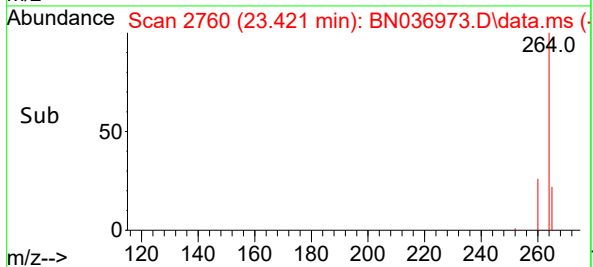
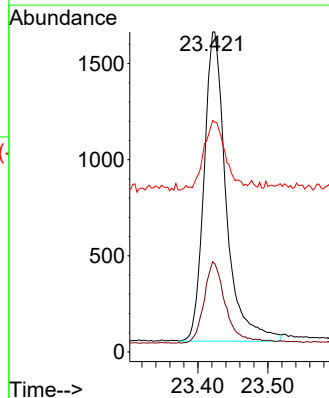
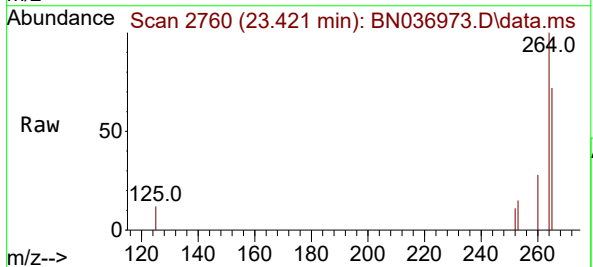
Instrument :
BNA_N
ClientSampleId :
PB167915BL

Tgt Ion:244 Resp: 2733
Ion Ratio Lower Upper
244 100
212 13.1 9.6 14.4
122 17.8 12.7 19.1



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.421 min Scan# 2760
Delta R.T. -0.006 min
Lab File: BN036973.D
Acq: 08 May 2025 15:04

Tgt Ion:264 Resp: 3531
Ion Ratio Lower Upper
264 100
260 28.2 22.2 33.2
265 72.3 65.8 98.6



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB167915BS	SDG No.:	Q1872
Lab Sample ID:	PB167915BS	Matrix:	SOIL
Analytical Method:	SW8270ESIM	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036979.D	1	05/08/25 10:03	05/08/25 18:41	PB167915

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1912-24-9	Atrazine	12.7		1.10	3.30	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.51		17 - 161	127%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		23 - 138	90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		33 - 121	88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		32 - 121	88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		21 - 130	90%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2490	7.626			
1146-65-2	Naphthalene-d8	6670	10.404			
15067-26-2	Acenaphthene-d10	3770	14.277			
1517-22-2	Phenanthrene-d10	7640	17.021			
1719-03-5	Chrysene-d12	6260	21.216			
1520-96-3	Perylene-d12	5500	23.421			

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\BN050825\
 Data File : BN036979.D
 Acq On : 08 May 2025 18:41
 Operator : RC/JU
 Sample : PB167915BS
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB167915BS

Quant Time: May 09 09:34:43 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 2025
 Response via : Initial Calibration

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

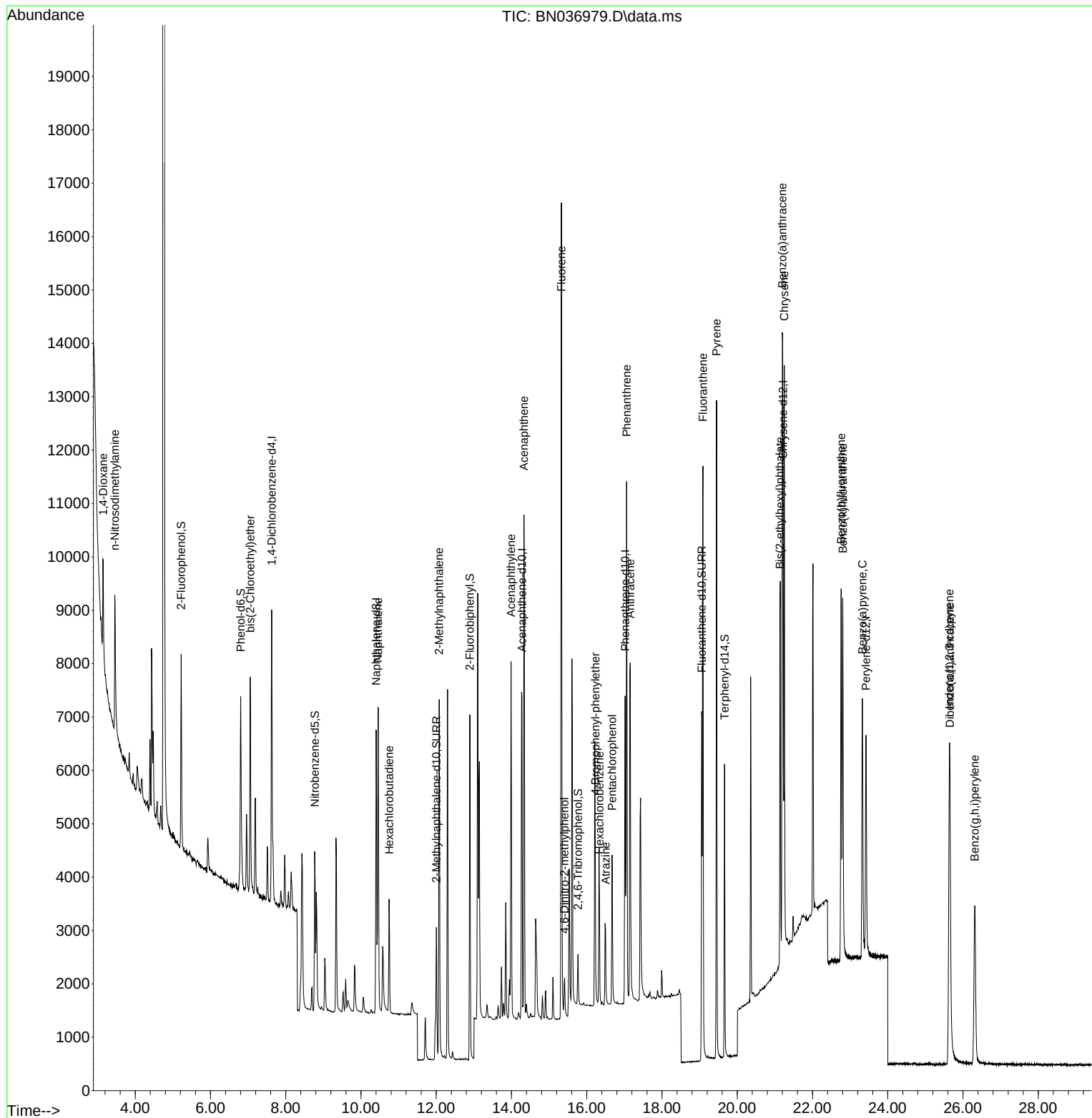
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.626	152	2493	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	6667	0.400	ng	#-0.01
13) Acenaphthene-d10	14.277	164	3772	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	7644	0.400	ng	# 0.00
29) Chrysene-d12	21.216	240	6261	0.400	ng	# 0.00
35) Perylene-d12	23.421	264	5504	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.221	112	2481	0.389	ng	0.00
5) Phenol-d6	6.802	99	3035	0.387	ng	0.00
8) Nitrobenzene-d5	8.771	82	2475	0.355	ng	-0.01
11) 2-Methylnaphthalene-d10	12.006	152	4778	0.512	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	486	0.289	ng	0.00
15) 2-Fluorobiphenyl	12.894	172	6443	0.353	ng	0.00
27) Fluoranthene-d10	19.059	212	7228	0.365	ng	0.00
31) Terphenyl-d14	19.663	244	5366	0.363	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.148	88	930	0.299	ng	# 28
3) n-Nitrosodimethylamine	3.458	42	2150	0.357	ng	# 94
6) bis(2-Chloroethyl)ether	7.055	93	2923	0.402	ng	99
9) Naphthalene	10.458	128	7408	0.382	ng	100
10) Hexachlorobutadiene	10.746	225	1609	0.383	ng	# 99
12) 2-Methylnaphthalene	12.077	142	4900	0.391	ng	98
16) Acenaphthylene	13.989	152	7034	0.382	ng	100
17) Acenaphthene	14.331	154	4460	0.368	ng	98
18) Fluorene	15.325	166	5786	0.365	ng	100
20) 4,6-Dinitro-2-methylph...	15.411	198	543	0.268	ng	# 80
21) 4-Bromophenyl-phenylether	16.227	248	1776	0.348	ng	94
22) Hexachlorobenzene	16.338	284	2033	0.364	ng	96
23) Atrazine	16.500	200	1563	0.380	ng	98
24) Pentachlorophenol	16.674	266	1278	0.426	ng	98
25) Phenanthrene	17.058	178	9379	0.372	ng	100
26) Anthracene	17.158	178	8525	0.374	ng	99
28) Fluoranthene	19.087	202	10334	0.365	ng	99
30) Pyrene	19.449	202	10737	0.356	ng	100
32) Benzo(a)anthracene	21.198	228	8967	0.389	ng	99
33) Chrysene	21.251	228	9711	0.391	ng	98
34) Bis(2-ethylhexyl)phtha...	21.135	149	5348	0.408	ng	100
36) Indeno(1,2,3-cd)pyrene	25.637	276	7939	0.353	ng	100
37) Benzo(b)fluoranthene	22.760	252	8326	0.360	ng	99
38) Benzo(k)fluoranthene	22.804	252	8759	0.376	ng	99
39) Benzo(a)pyrene	23.325	252	7401	0.389	ng	97
40) Dibenzo(a,h)anthracene	25.652	278	6108	0.345	ng	99
41) Benzo(g,h,i)perylene	26.313	276	6141	0.313	ng	98

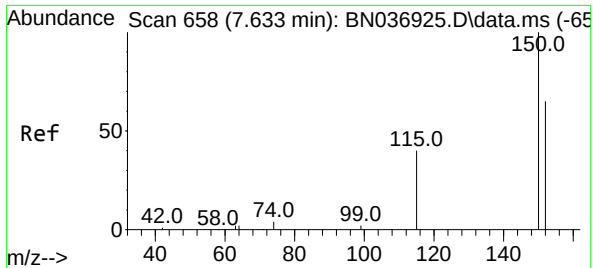
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050825\
 Data File : BN036979.D
 Acq On : 08 May 2025 18:41
 Operator : RC/JU
 Sample : PB167915BS
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB167915BS

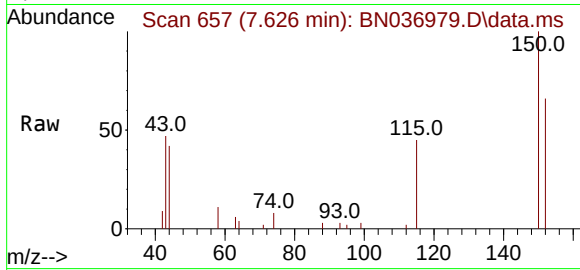
Quant Time: May 09 09:34:43 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 2025
 Response via : Initial Calibration



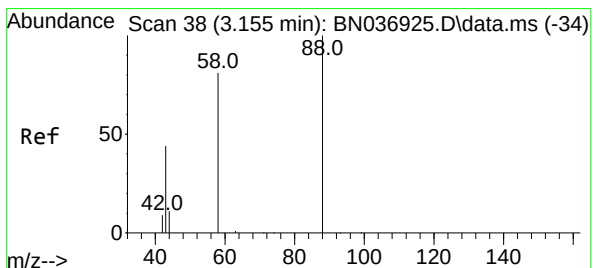
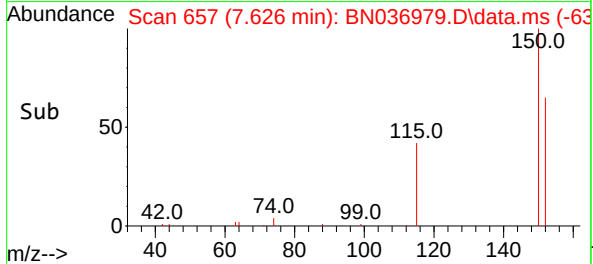
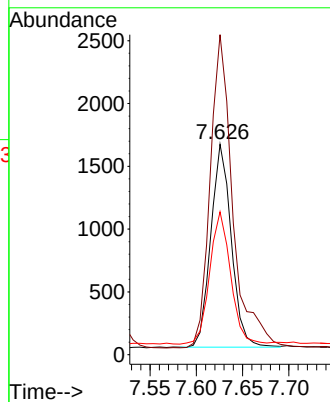


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.626 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Instrument :
BNA_N
ClientSampleId :
PB167915BS

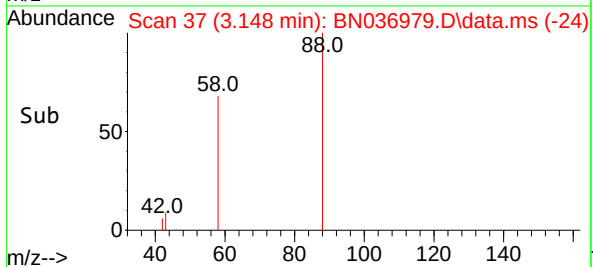
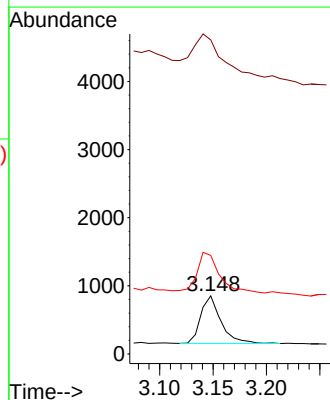
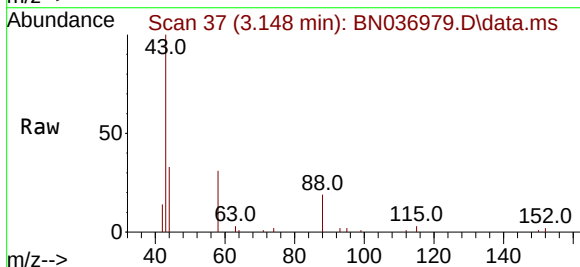


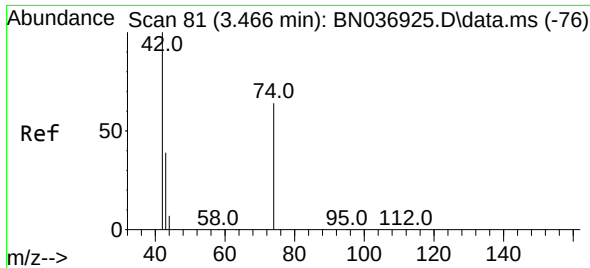
Tgt Ion:152 Resp: 2493
Ion Ratio Lower Upper
152 100
150 152.1 121.1 181.7
115 67.9 51.8 77.6



#2
1,4-Dioxane
Concen: 0.299 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion: 88 Resp: 930
Ion Ratio Lower Upper
88 100
43 155.3 37.9 56.9#
58 101.4 65.8 98.6#

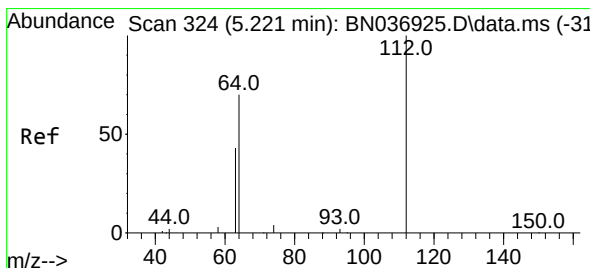
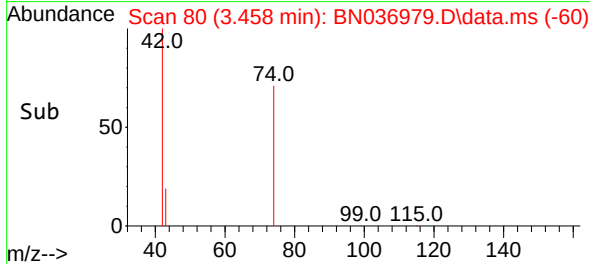
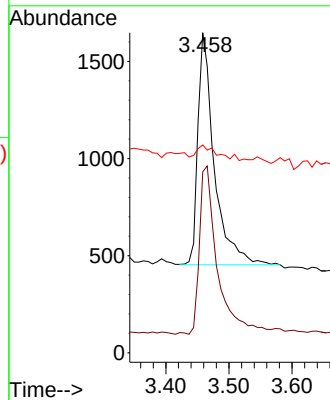
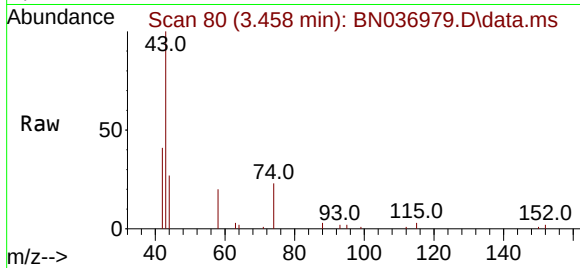




#3
n-Nitrosodimethylamine
Concen: 0.357 ng
RT: 3.458 min Scan# 80
Delta R.T. -0.007 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

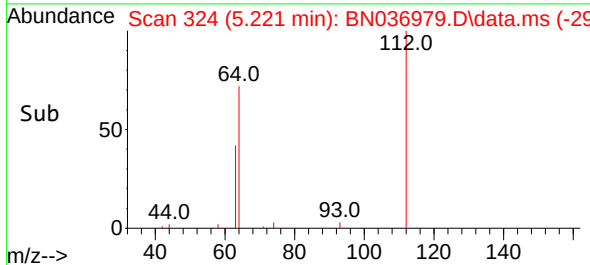
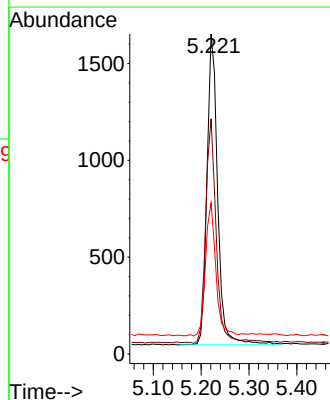
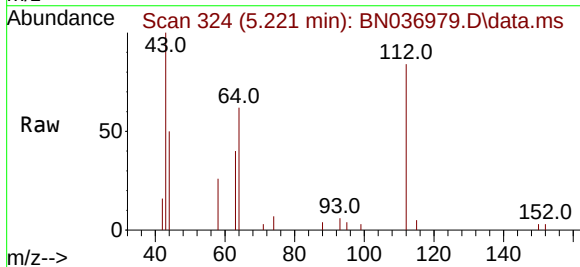
Instrument :
BNA_N
ClientSampleId :
PB167915BS

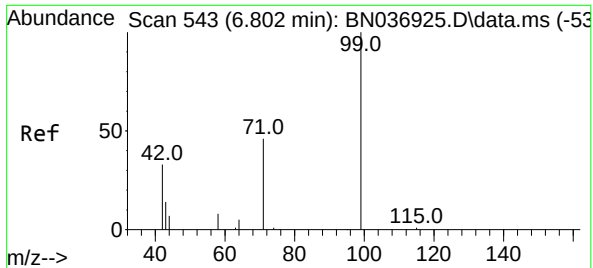
Tgt Ion: 42 Resp: 2150
Ion Ratio Lower Upper
42 100
74 80.4 59.9 89.9
44 7.4 7.5 11.3#



#4
2-Fluorophenol
Concen: 0.389 ng
RT: 5.221 min Scan# 324
Delta R.T. 0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion: 112 Resp: 2481
Ion Ratio Lower Upper
112 100
64 70.1 55.7 83.5
63 41.3 33.9 50.9

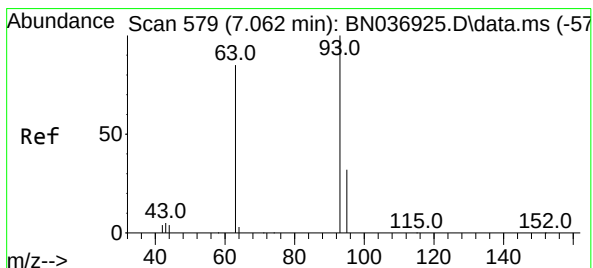
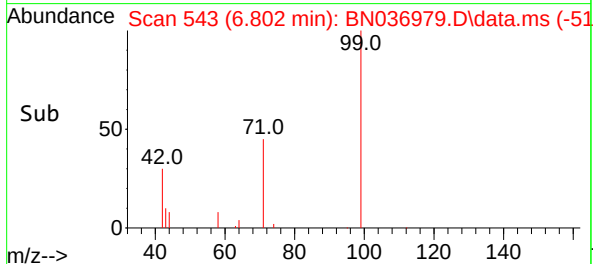
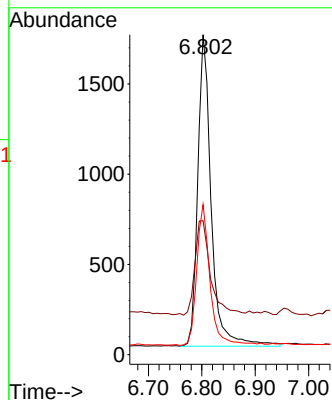
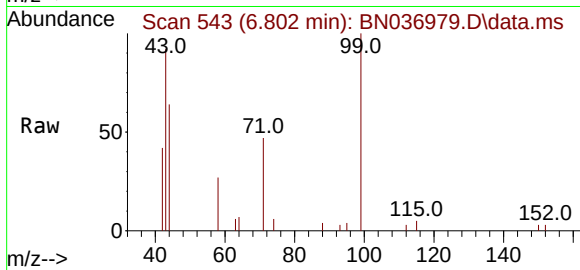




#5
Phenol-d6
Concen: 0.387 ng
RT: 6.802 min Scan# 543
Delta R.T. 0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

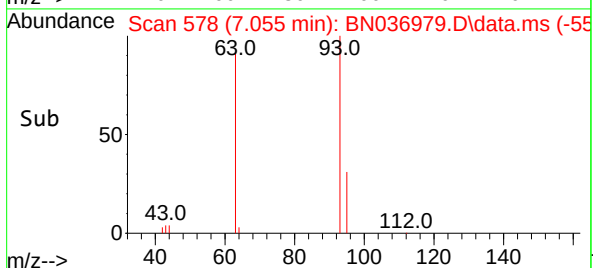
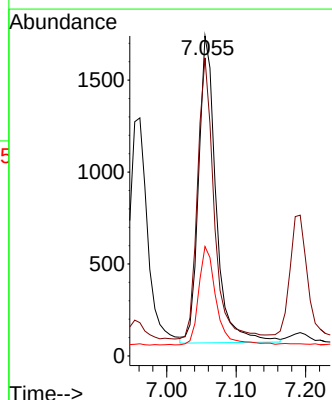
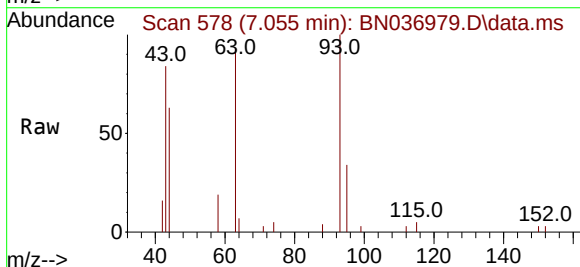
Instrument :
BNA_N
ClientSampleId :
PB167915BS

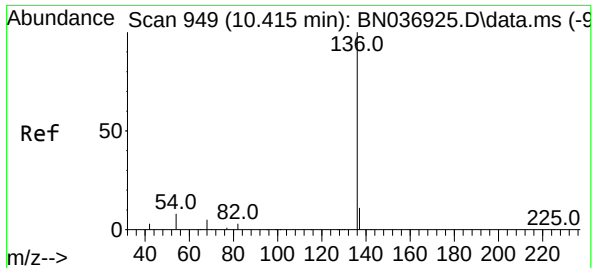
Tgt Ion	Ratio	Lower	Upper
99	100		
42	33.8	29.6	44.4
71	44.5	36.0	54.0



#6
bis(2-Chloroethyl)ether
Concen: 0.402 ng
RT: 7.055 min Scan# 578
Delta R.T. -0.007 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion	Ratio	Lower	Upper
93	100		
63	86.8	69.0	103.6
95	32.0	25.4	38.0

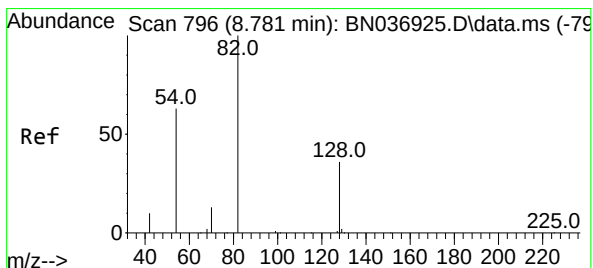
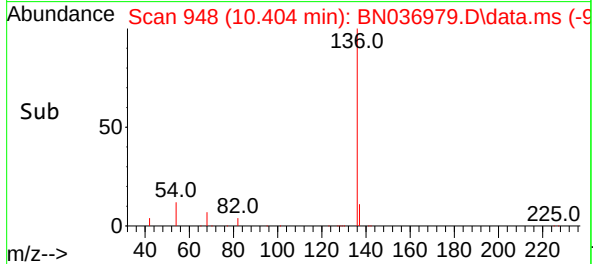
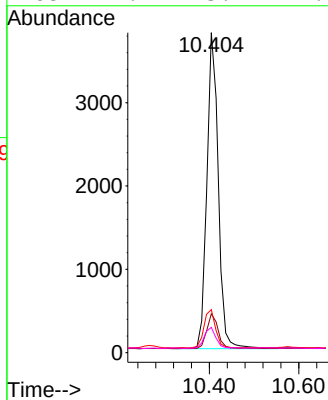
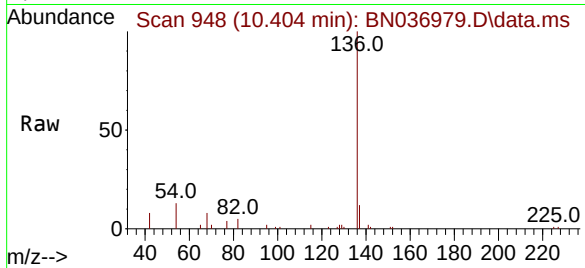




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

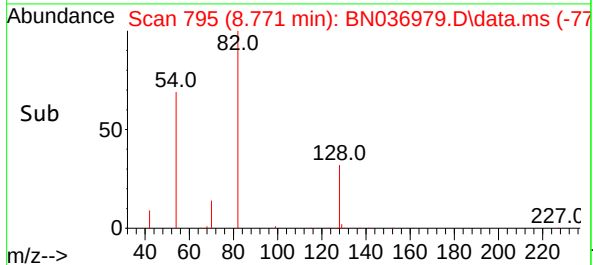
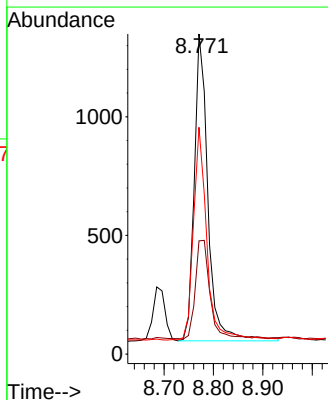
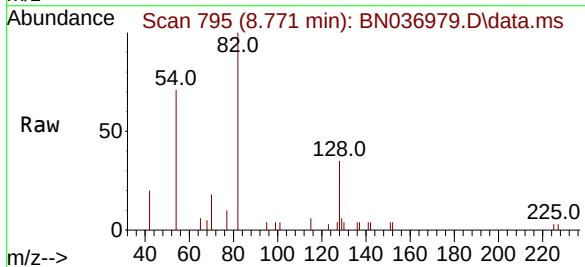
Instrument :
BNA_N
ClientSampleId :
PB167915BS

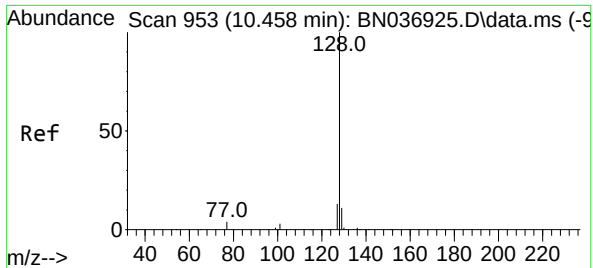
Tgt Ion:136 Resp: 6667
Ion Ratio Lower Upper
136 100
137 12.2 9.7 14.5
54 13.4 8.0 12.0#
68 7.9 5.1 7.7#



#8
Nitrobenzene-d5
Concen: 0.355 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.011 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion: 82 Resp: 2475
Ion Ratio Lower Upper
82 100
128 35.4 30.7 46.1
54 70.9 52.1 78.1

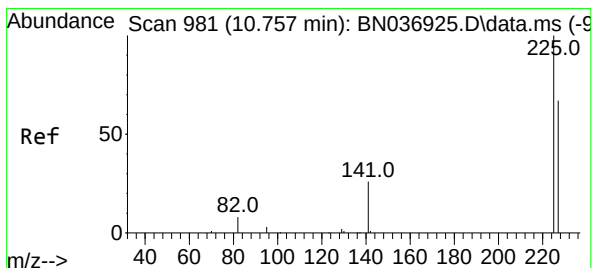
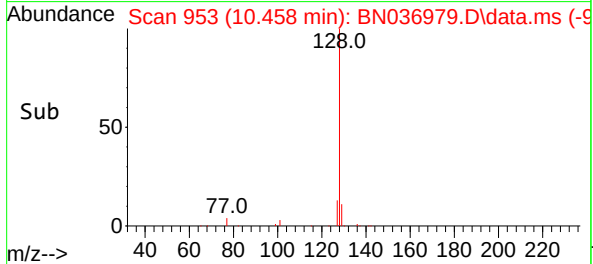
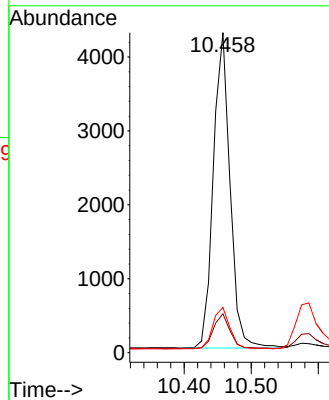
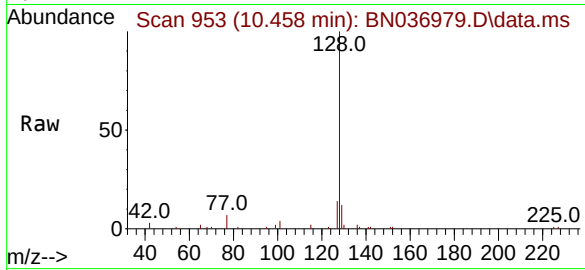




#9
Naphthalene
Concen: 0.382 ng
RT: 10.458 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

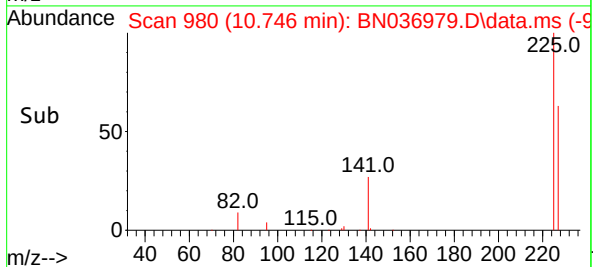
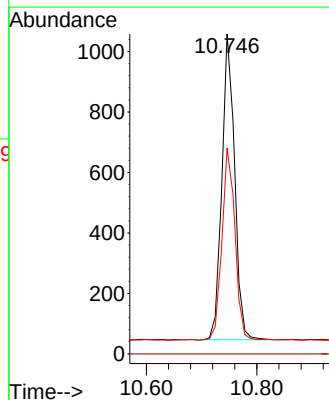
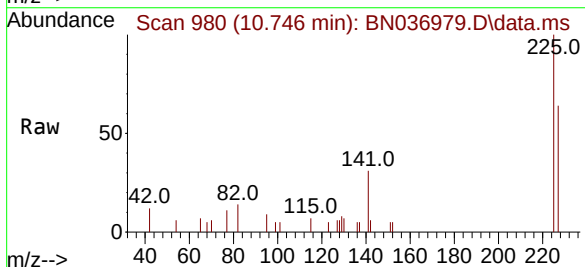
Instrument :
BNA_N
ClientSampleId :
PB167915BS

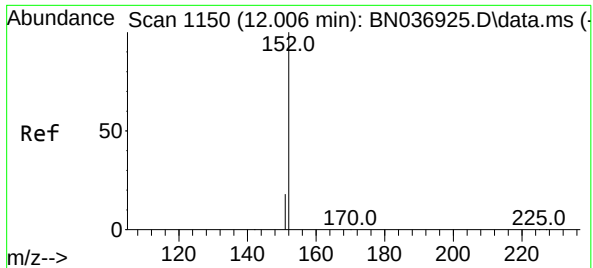
Tgt Ion:128 Resp: 7408
Ion Ratio Lower Upper
128 100
129 12.1 9.8 14.6
127 14.1 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.383 ng
RT: 10.746 min Scan# 980
Delta R.T. -0.011 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion:225 Resp: 1609
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.3 52.2 78.4

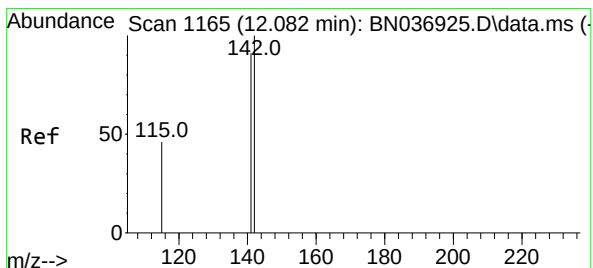
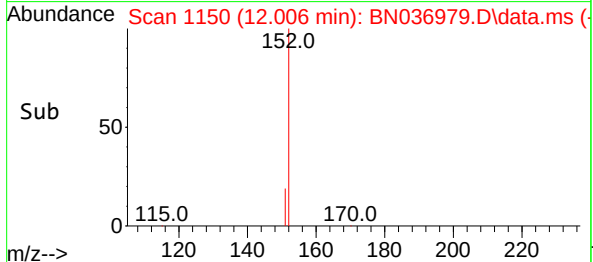
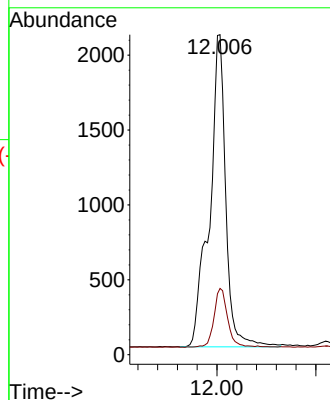
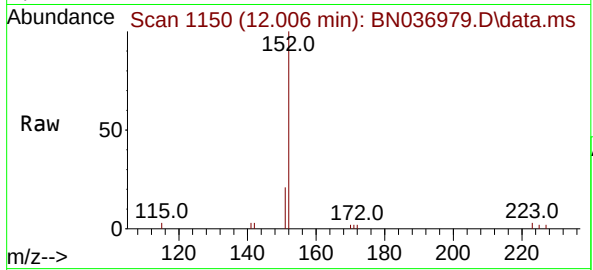




#11
2-Methylnaphthalene-d10
Concen: 0.512 ng
RT: 12.006 min Scan# 1150
Delta R.T. 0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

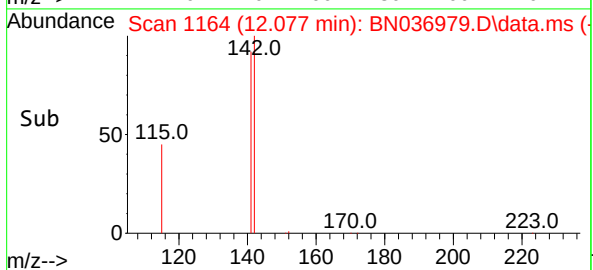
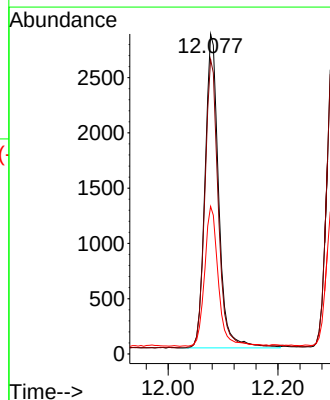
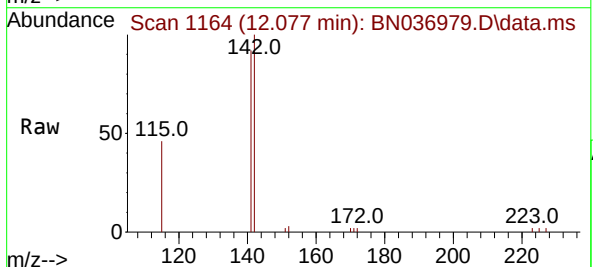
Instrument :
BNA_N
ClientSampleId :
PB167915BS

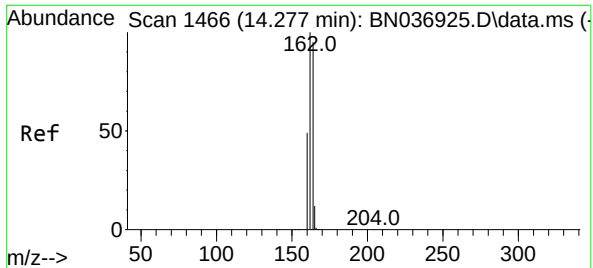
Tgt Ion:152 Resp: 4778
Ion Ratio Lower Upper
152 100
151 15.8 16.9 25.3#



#12
2-Methylnaphthalene
Concen: 0.391 ng
RT: 12.077 min Scan# 1164
Delta R.T. -0.005 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion:142 Resp: 4900
Ion Ratio Lower Upper
142 100
141 92.1 72.8 109.2
115 46.1 38.2 57.4

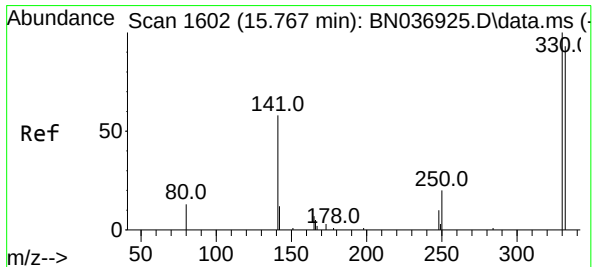
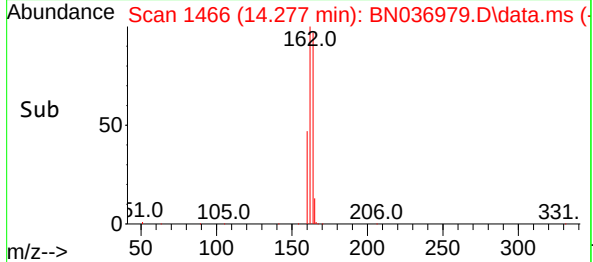
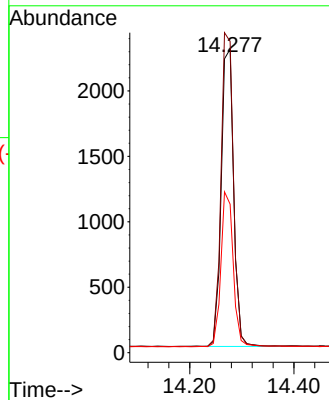
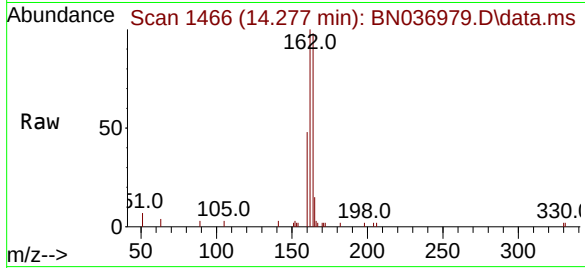




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

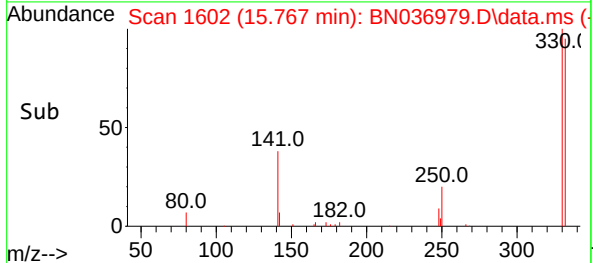
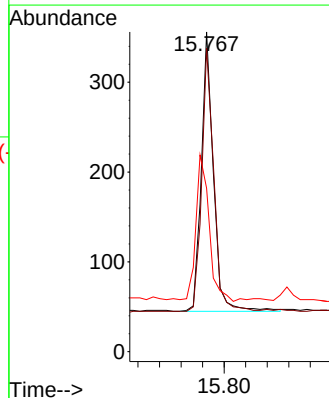
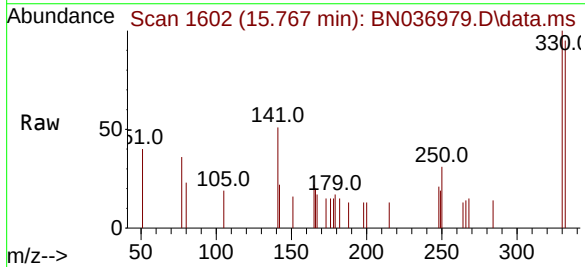
Instrument :
BNA_N
ClientSampleId :
PB167915BS

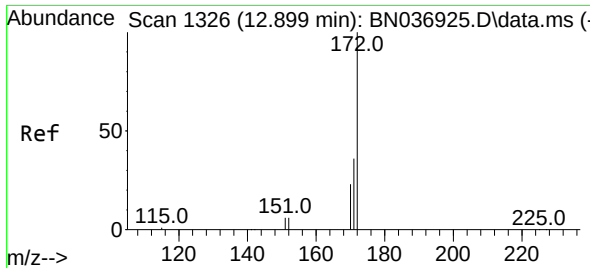
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.5	83.8	125.8
160	48.9	42.0	63.0



#14
2,4,6-Tribromophenol
Concen: 0.289 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion	Ratio	Lower	Upper
330	100		
332	93.4	76.3	114.5
141	55.1	45.4	68.2

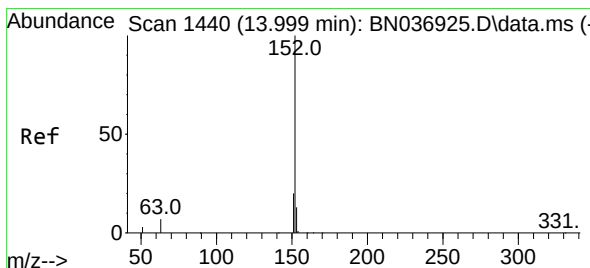
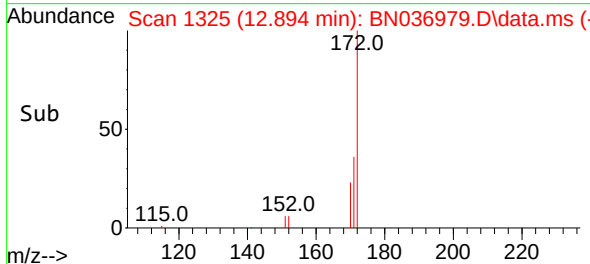
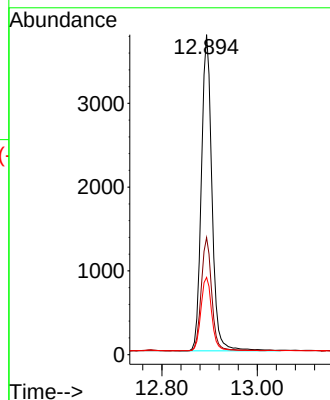
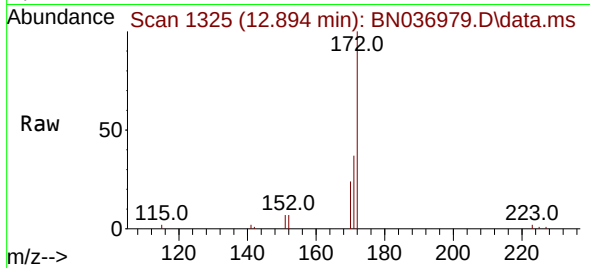




#15
2-Fluorobiphenyl
Concen: 0.353 ng
RT: 12.894 min Scan# 1439
Delta R.T. -0.005 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

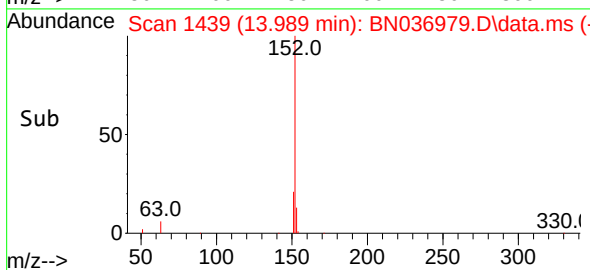
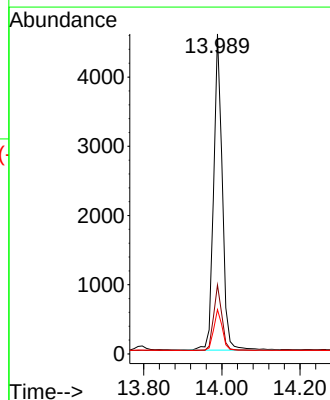
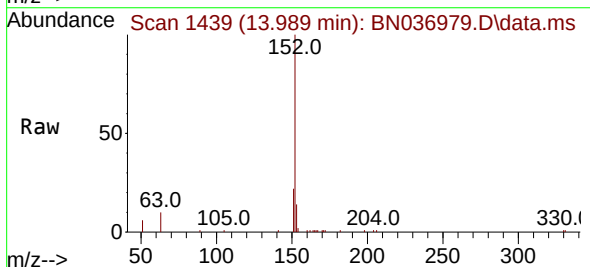
Instrument :
BNA_N
ClientSampleId :
PB167915BS

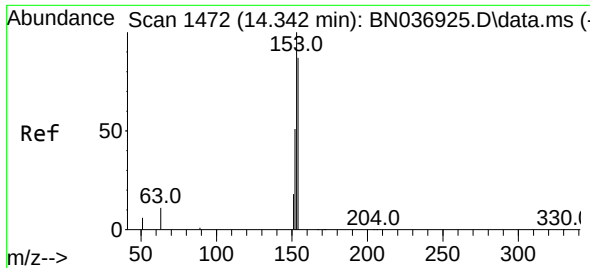
Tgt Ion:172 Resp: 6443
Ion Ratio Lower Upper
172 100
171 36.6 29.4 44.0
170 24.2 19.4 29.0



#16
Acenaphthylene
Concen: 0.382 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion:152 Resp: 7034
Ion Ratio Lower Upper
152 100
151 20.1 16.0 24.0
153 12.9 10.2 15.2

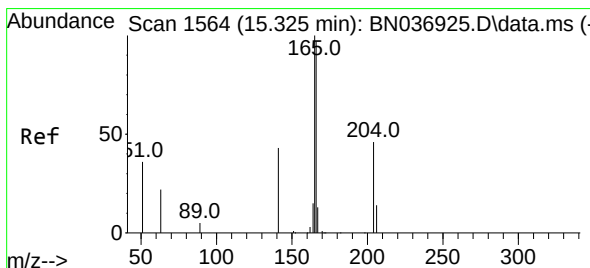
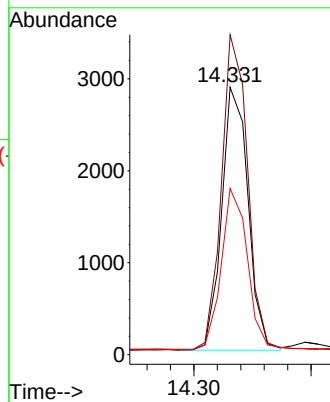
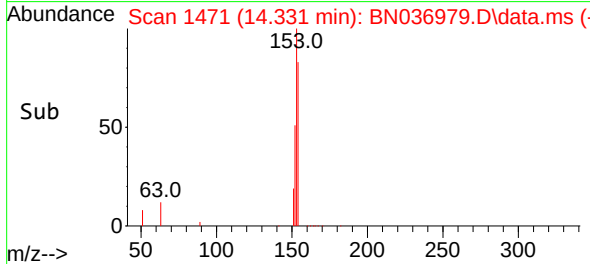
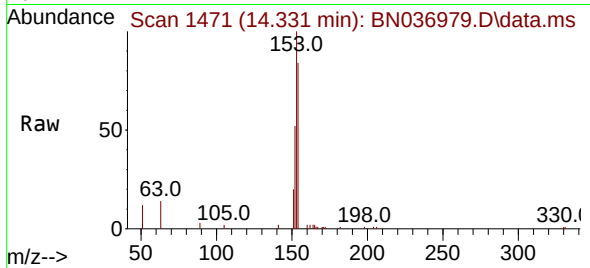




#17
Acenaphthene
Concen: 0.368 ng
RT: 14.331 min Scan# 1471
Delta R.T. -0.011 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

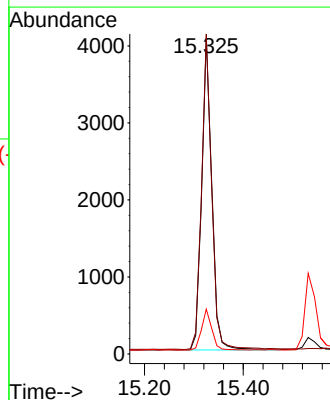
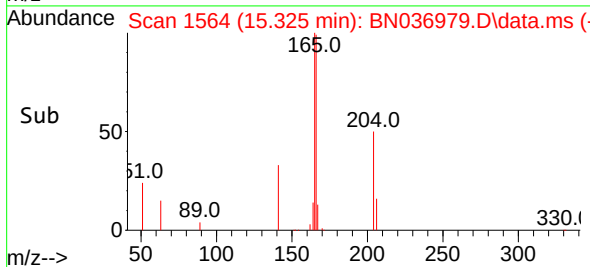
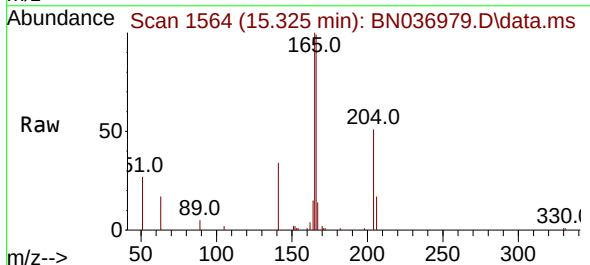
Instrument :
BNA_N
ClientSampleId :
PB167915BS

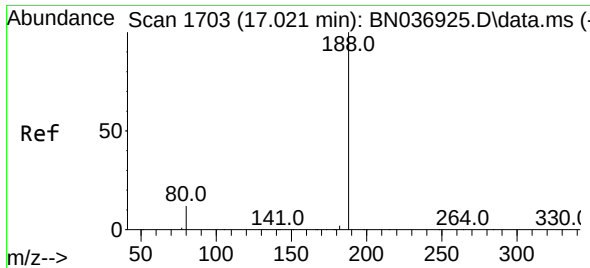
Tgt Ion:154 Resp: 4460
Ion Ratio Lower Upper
154 100
153 119.7 93.4 140.2
152 60.6 49.5 74.3



#18
Fluorene
Concen: 0.365 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion:166 Resp: 5786
Ion Ratio Lower Upper
166 100
165 100.6 80.8 121.2
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN036979.D

Acq: 08 May 2025 18:41

Instrument :

BNA_N

ClientSampleId :

PB167915BS

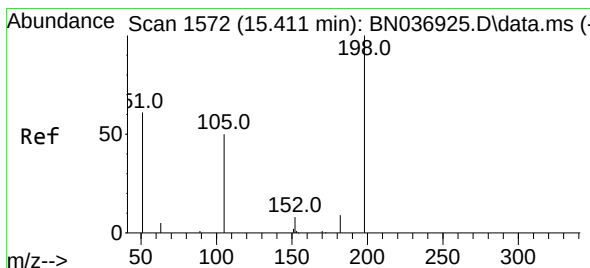
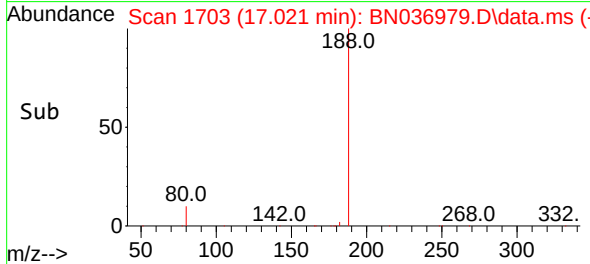
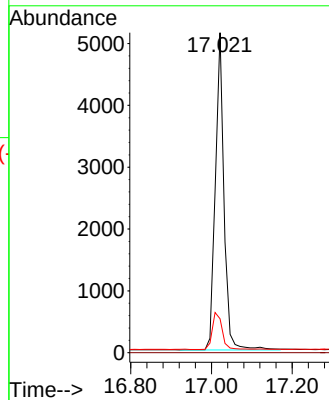
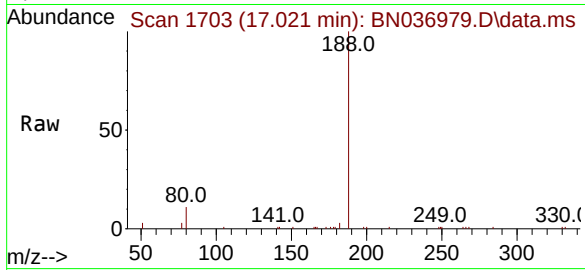
Tgt Ion:188 Resp: 7644

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.6 10.7 16.1#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.268 ng

RT: 15.411 min Scan# 1572

Delta R.T. -0.000 min

Lab File: BN036979.D

Acq: 08 May 2025 18:41

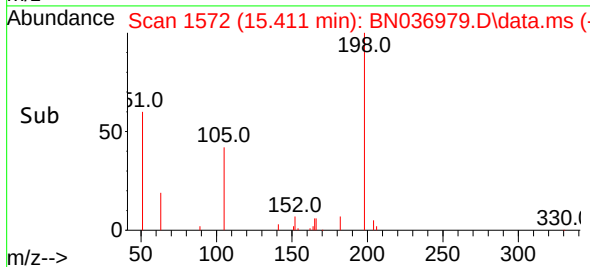
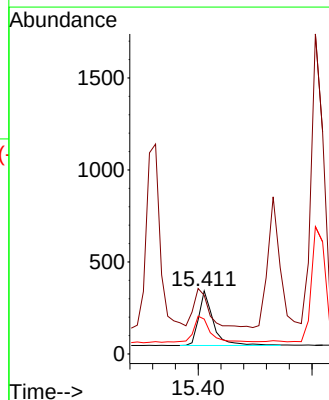
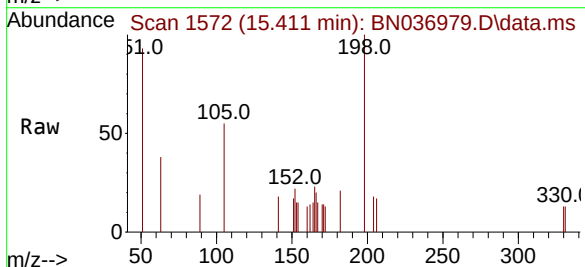
Tgt Ion:198 Resp: 543

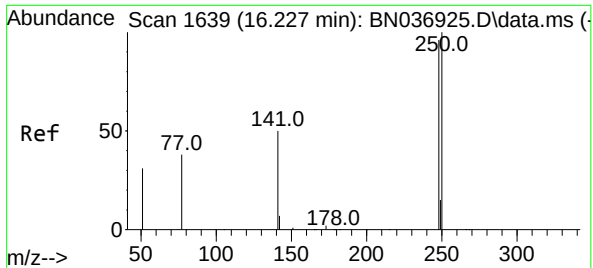
Ion Ratio Lower Upper

198 100

51 93.0 97.9 146.9#

105 55.4 50.0 75.0

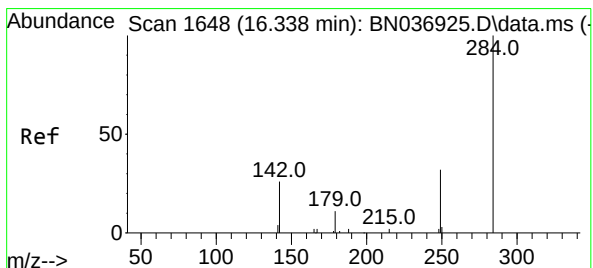
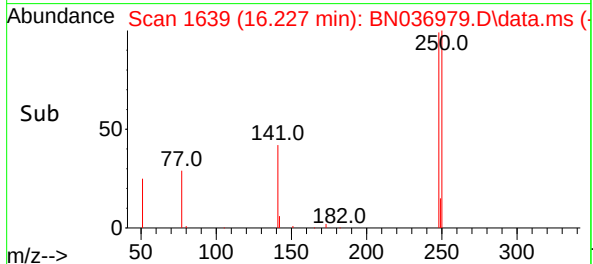
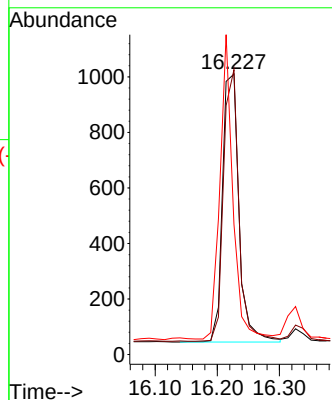
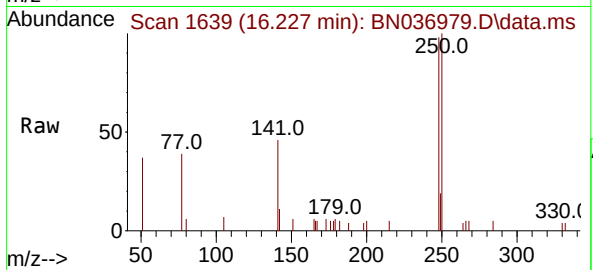




#21
4-Bromophenyl-phenylether
Concen: 0.348 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

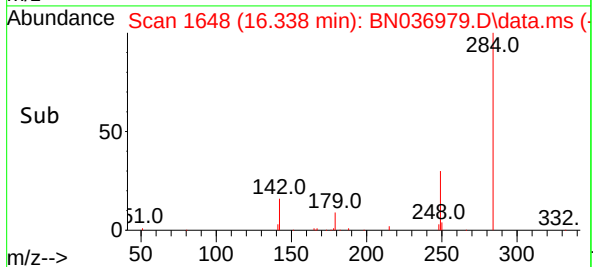
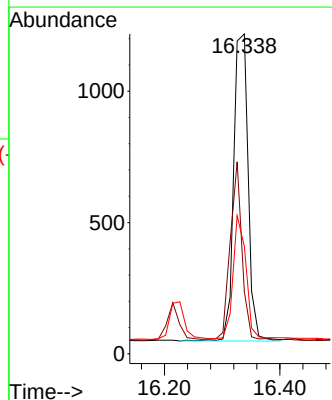
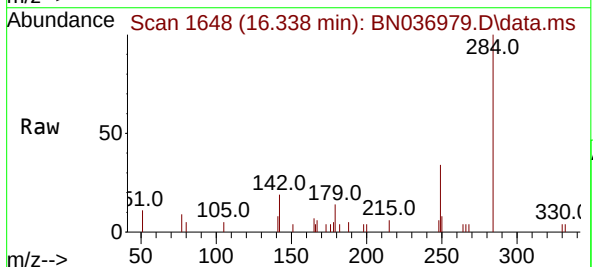
Instrument :
BNA_N
ClientSampleId :
PB167915BS

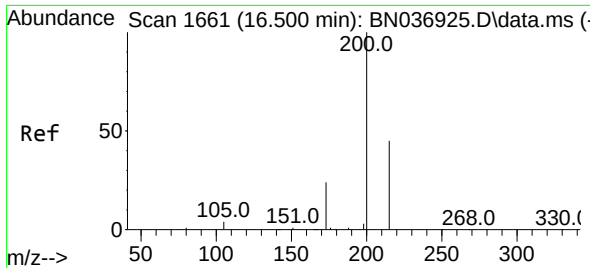
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.6	83.7	125.5
141	46.4	43.8	65.8



#22
Hexachlorobenzene
Concen: 0.364 ng
RT: 16.338 min Scan# 1648
Delta R.T. 0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion	Ratio	Lower	Upper
284	100		
142	47.1	40.0	60.0
249	36.7	28.2	42.2

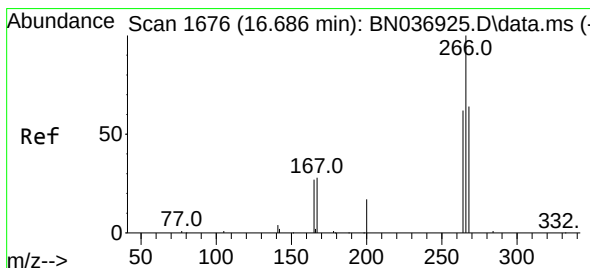
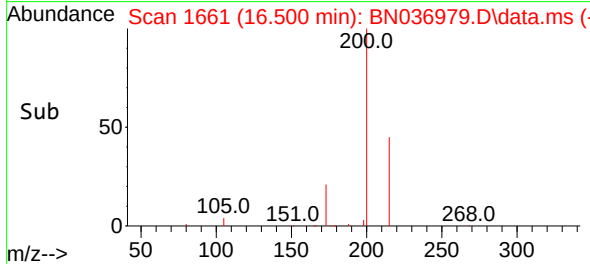
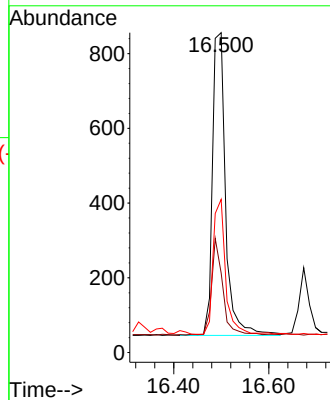
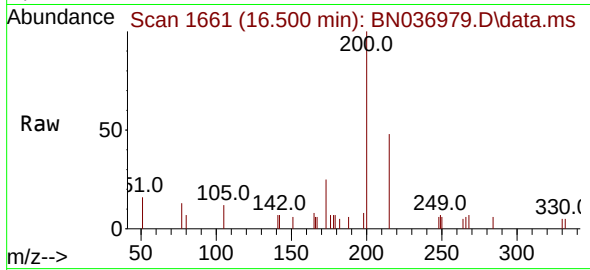




#23
Atrazine
Concen: 0.380 ng
RT: 16.500 min Scan# 1661
Delta R.T. -0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

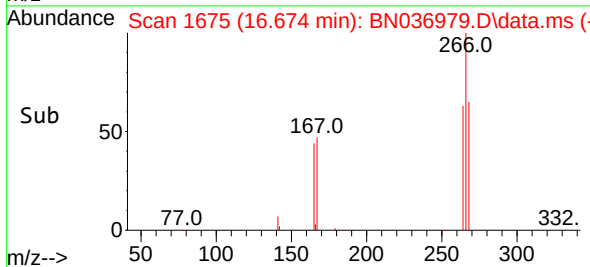
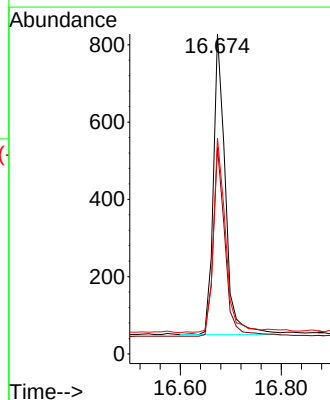
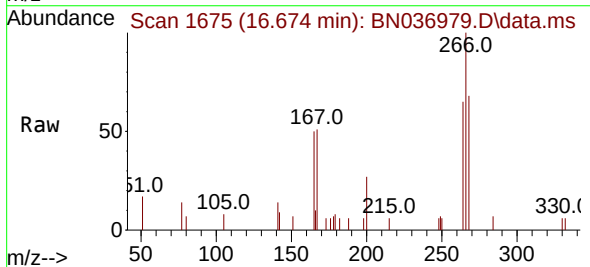
Instrument :
BNA_N
ClientSampleId :
PB167915BS

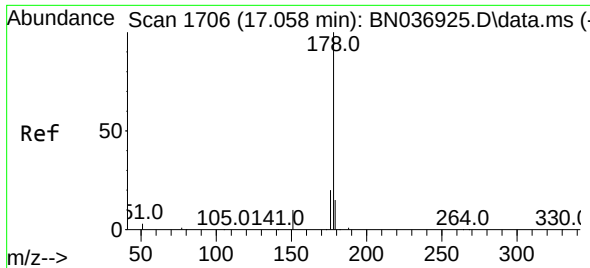
Tgt Ion	200	Resp:	1563
Ion Ratio	Lower	Upper	
200	100		
173	24.9	22.4	33.6
215	47.9	38.6	57.8



#24
Pentachlorophenol
Concen: 0.426 ng
RT: 16.674 min Scan# 1675
Delta R.T. -0.012 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion	266	Resp:	1278
Ion Ratio	Lower	Upper	
266	100		
264	62.0	49.9	74.9
268	67.2	52.2	78.4

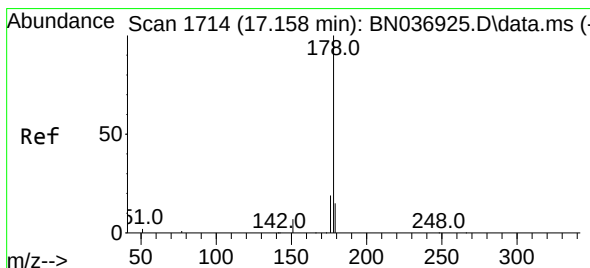
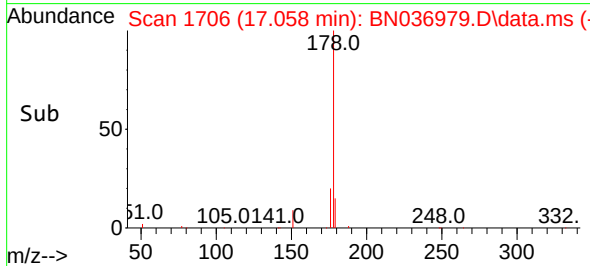
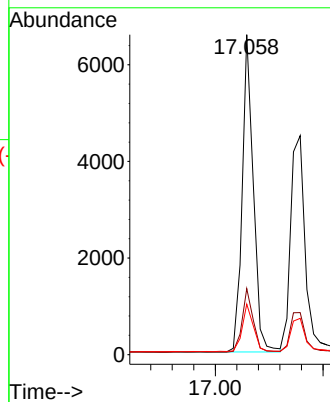
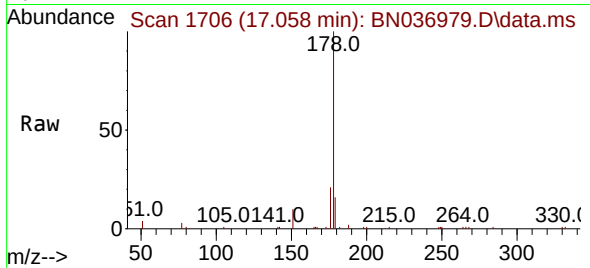




#25
Phenanthrene
Concen: 0.372 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

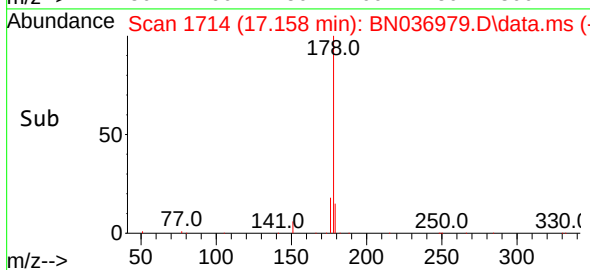
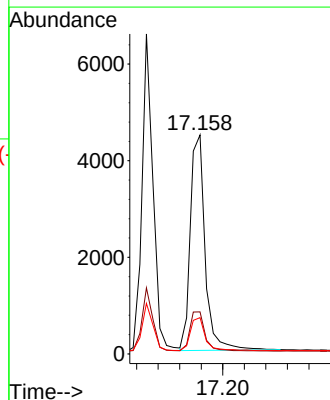
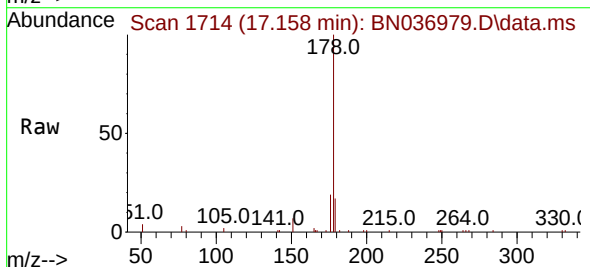
Instrument :
BNA_N
ClientSampleId :
PB167915BS

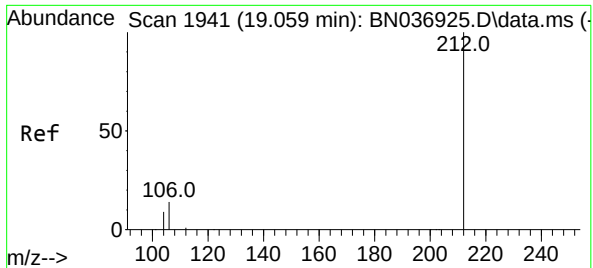
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.7	23.5
179	15.3	12.4	18.6



#26
Anthracene
Concen: 0.374 ng
RT: 17.158 min Scan# 1714
Delta R.T. 0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.3	22.9
179	15.5	12.1	18.1





#27

Fluoranthene-d10

Concen: 0.365 ng

RT: 19.059 min Scan# 1941

Delta R.T. 0.000 min

Lab File: BN036979.D

Acq: 08 May 2025 18:41

Instrument :

BNA_N

ClientSampleId :

PB167915BS

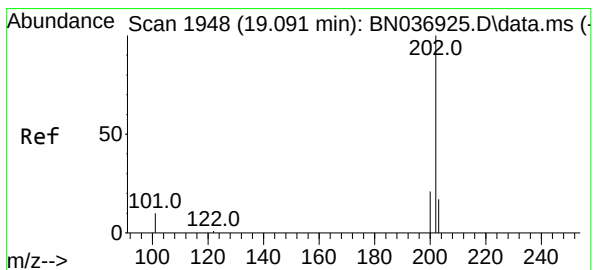
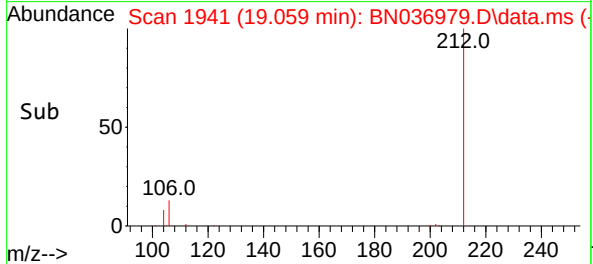
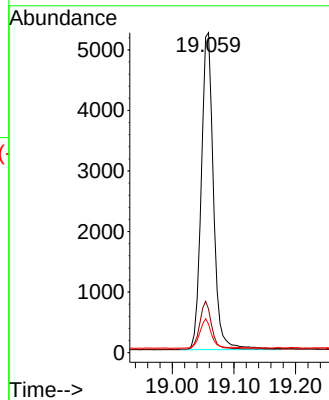
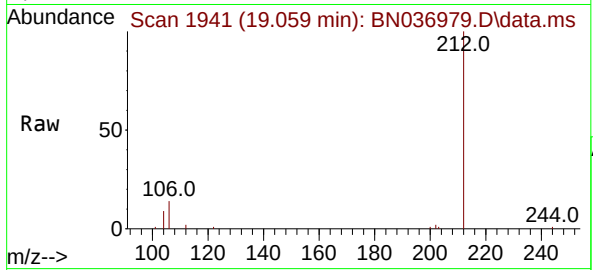
Tgt Ion:212 Resp: 7228

Ion Ratio Lower Upper

212 100

106 14.7 11.6 17.4

104 8.7 7.0 10.4



#28

Fluoranthene

Concen: 0.365 ng

RT: 19.087 min Scan# 1947

Delta R.T. -0.005 min

Lab File: BN036979.D

Acq: 08 May 2025 18:41

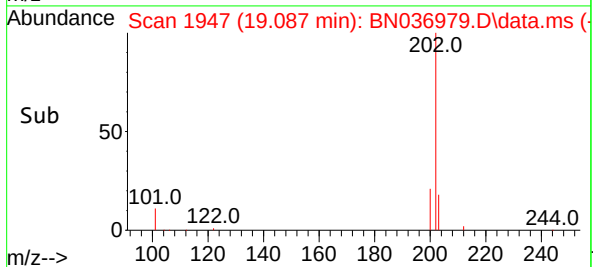
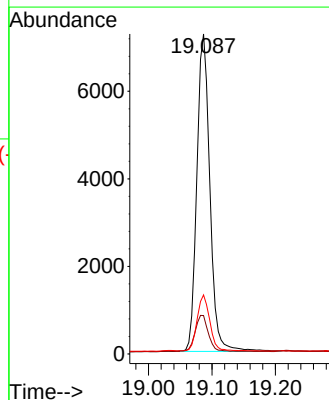
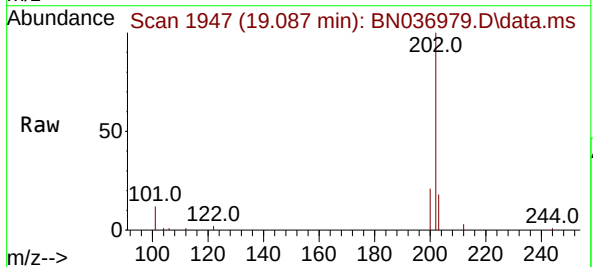
Tgt Ion:202 Resp: 10334

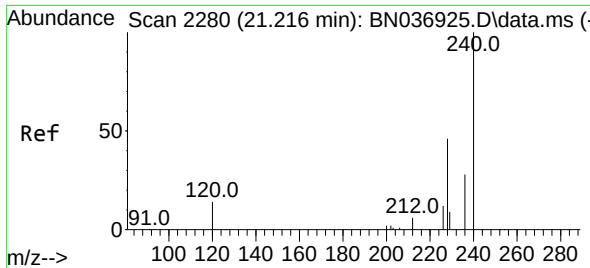
Ion Ratio Lower Upper

202 100

101 11.5 8.5 12.7

203 17.2 13.7 20.5

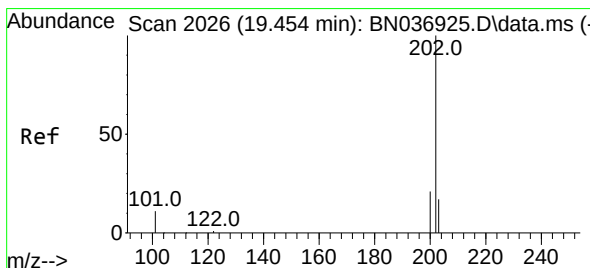
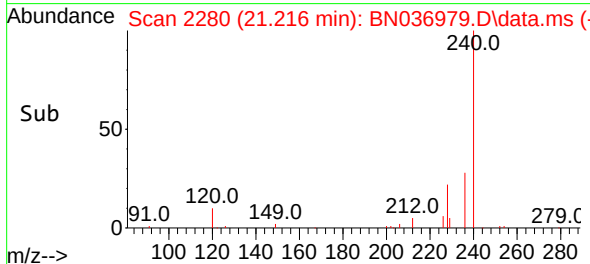
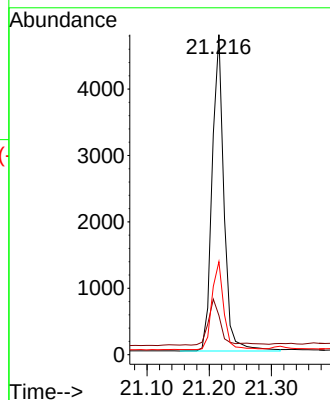
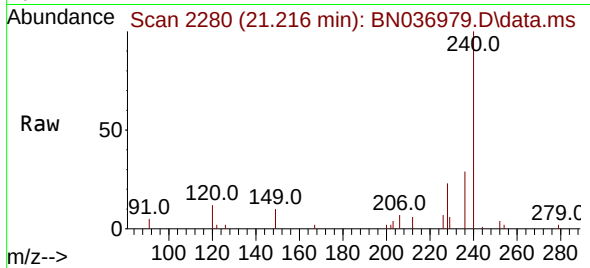




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.216 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

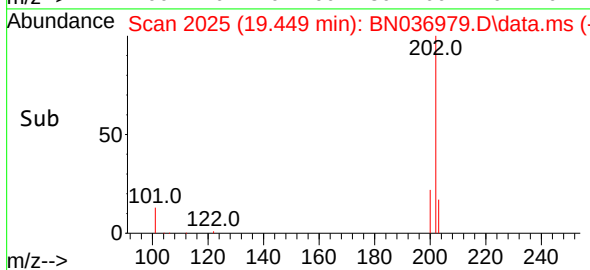
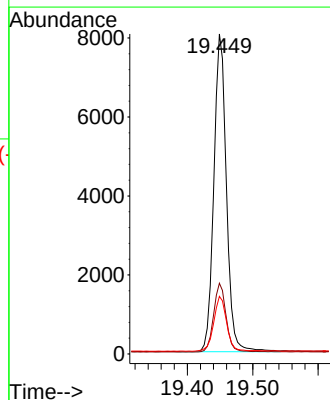
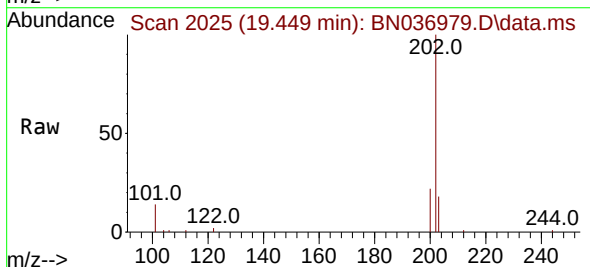
Instrument :
BNA_N
ClientSampleId :
PB167915BS

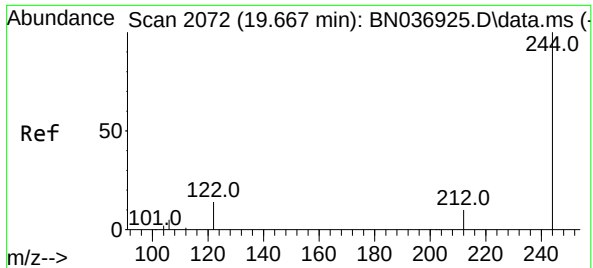
Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.2	14.1	21.1#
236	29.0	23.8	35.8



#30
Pyrene
Concen: 0.356 ng
RT: 19.449 min Scan# 2025
Delta R.T. -0.005 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.6
203	17.5	14.0	21.0

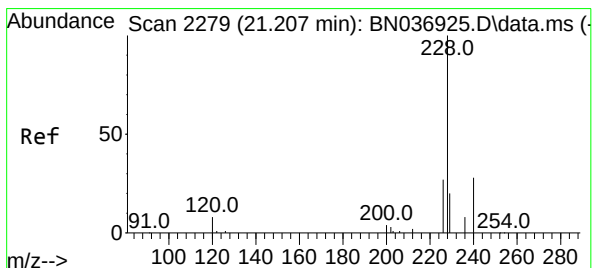
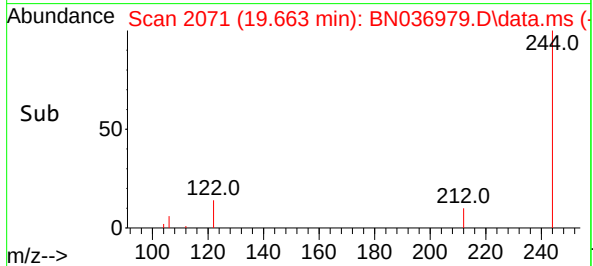
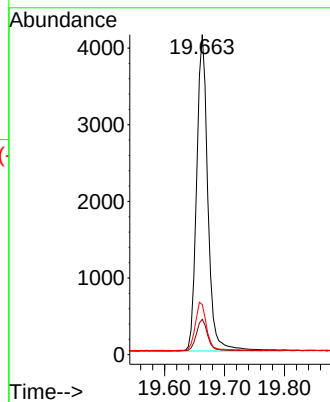
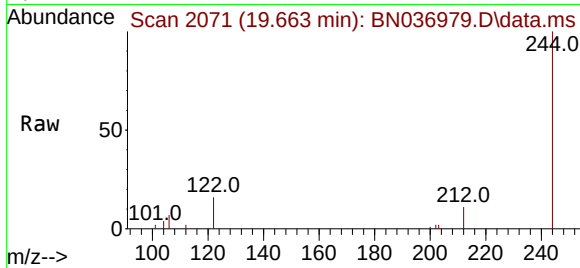




#31
Terphenyl-d14
Concen: 0.363 ng
RT: 19.663 min Scan# 2071
Delta R.T. -0.005 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

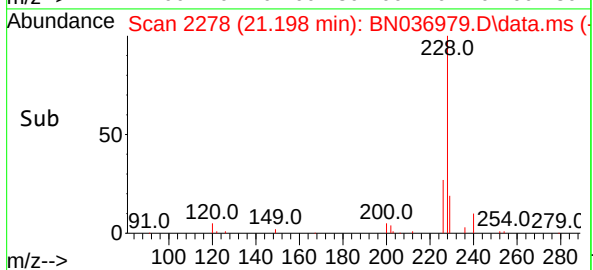
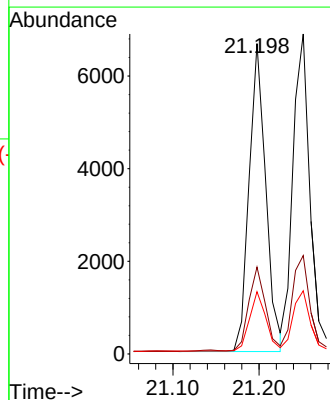
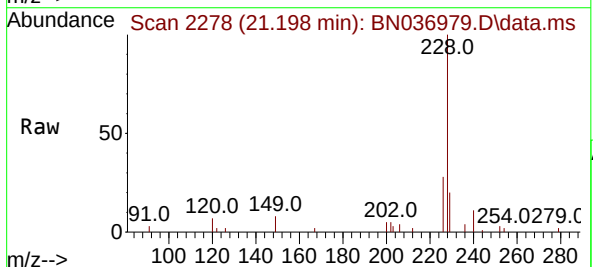
Instrument :
BNA_N
ClientSampleId :
PB167915BS

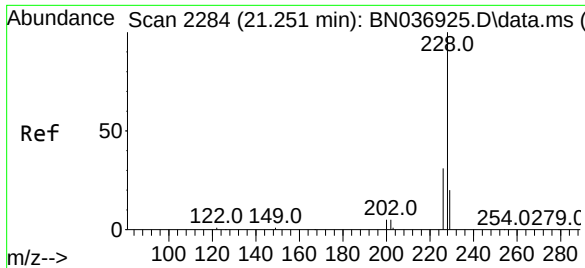
Tgt Ion:244 Resp: 5366
Ion Ratio Lower Upper
244 100
212 11.1 9.6 14.4
122 15.6 12.7 19.1



#32
Benzo(a)anthracene
Concen: 0.389 ng
RT: 21.198 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion:228 Resp: 8967
Ion Ratio Lower Upper
228 100
226 28.0 22.2 33.4
229 20.1 16.4 24.6

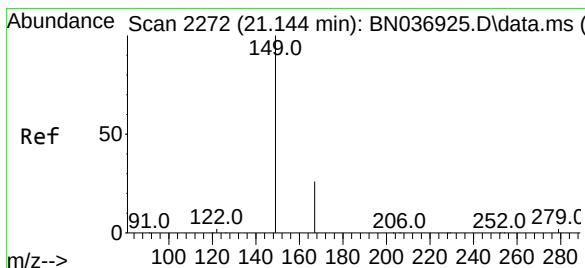
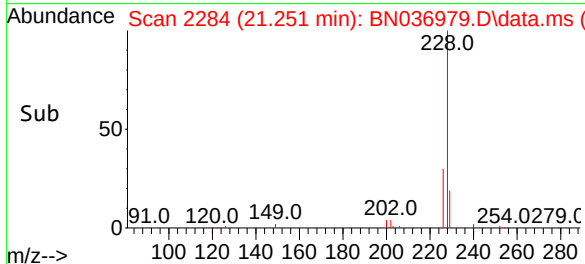
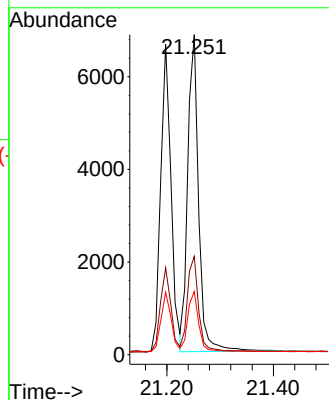
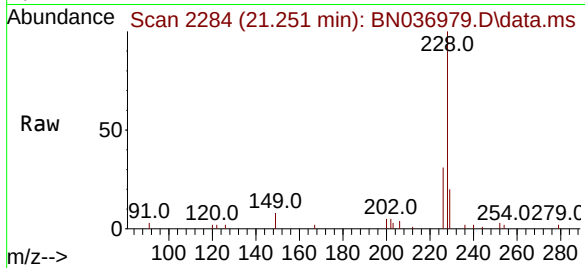




#33
Chrysene
Concen: 0.391 ng
RT: 21.251 min Scan# 211
Delta R.T. -0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

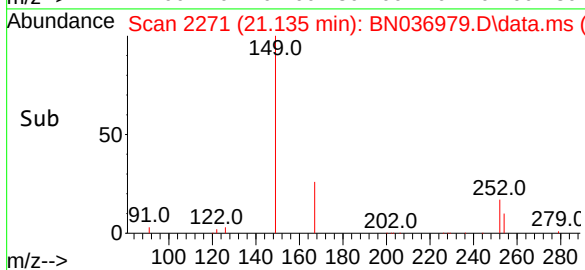
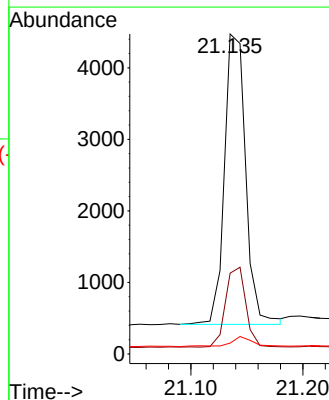
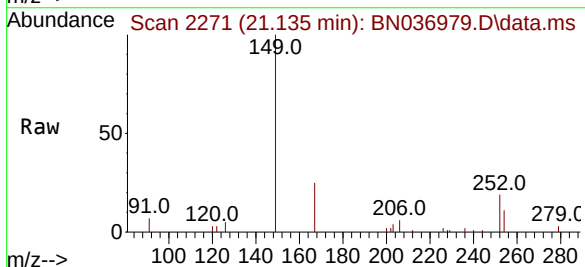
Instrument :
BNA_N
ClientSampleId :
PB167915BS

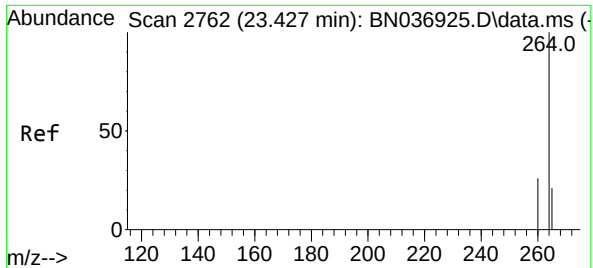
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.5	38.3
229	19.7	16.5	24.7



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.408 ng
RT: 21.135 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

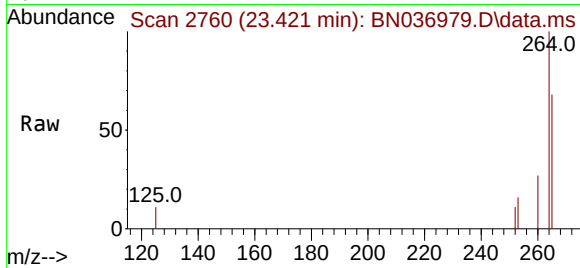
Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.3	21.0	31.6
279	3.7	2.7	4.1



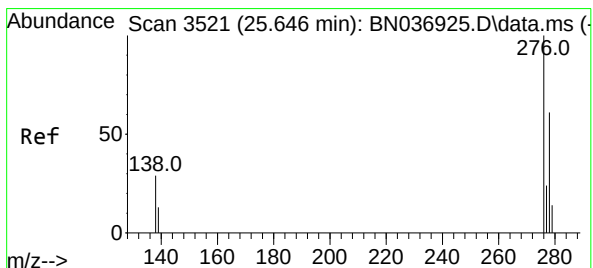
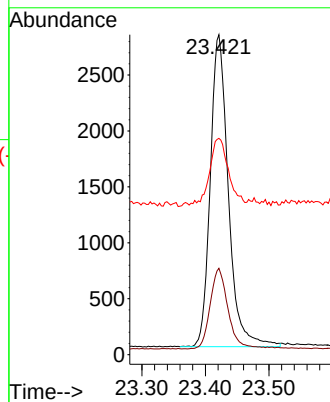
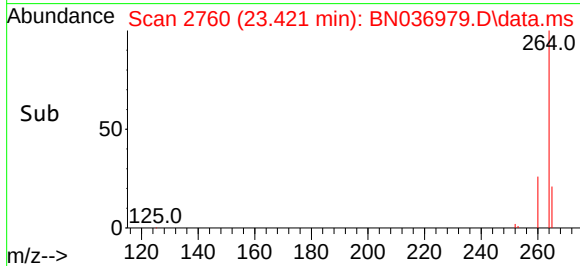


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.421 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Instrument :
BNA_N
ClientSampleId :
PB167915BS

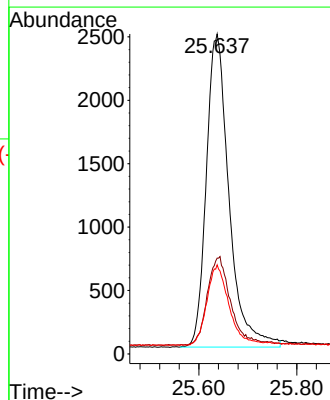
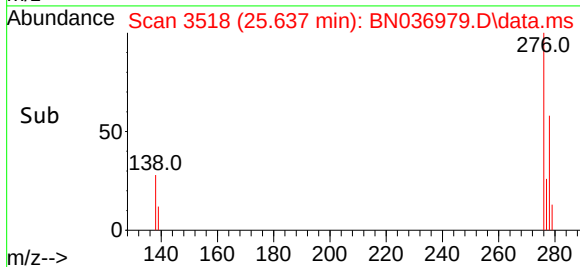
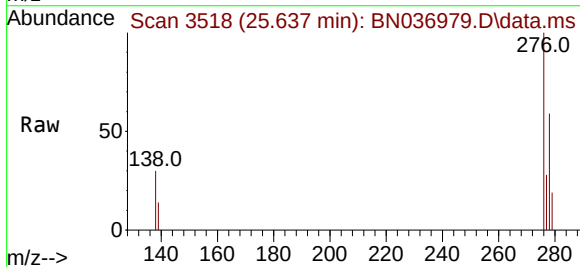


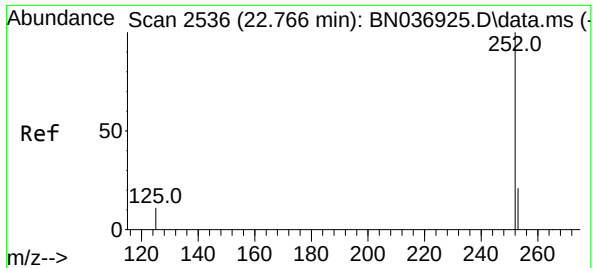
Tgt Ion:264 Resp: 5504
Ion Ratio Lower Upper
264 100
260 27.0 22.2 33.2
265 67.6 65.8 98.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.353 ng
RT: 25.637 min Scan# 3518
Delta R.T. -0.009 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion:276 Resp: 7939
Ion Ratio Lower Upper
276 100
138 29.1 23.0 34.6
277 25.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.360 ng

RT: 22.760 min Scan# 2549

Delta R.T. -0.006 min

Lab File: BN036979.D

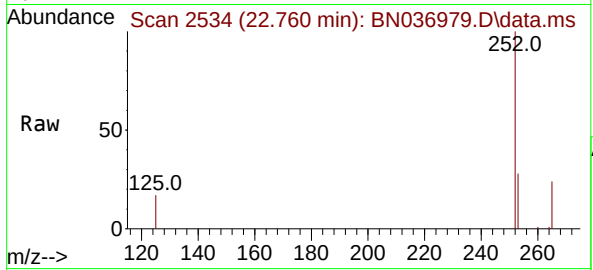
Acq: 08 May 2025 18:41

Instrument :

BNA_N

ClientSampleId :

PB167915BS



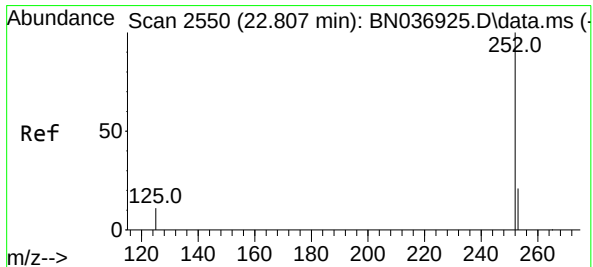
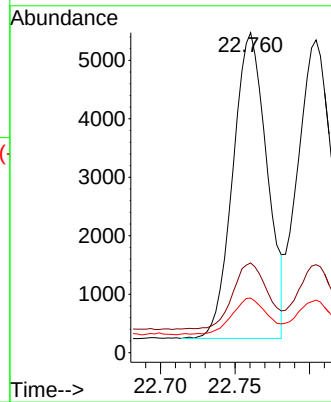
Tgt Ion:252 Resp: 8326

Ion Ratio Lower Upper

252 100

253 28.0 22.1 33.1

125 17.0 14.2 21.2



#38

Benzo(k)fluoranthene

Concen: 0.376 ng

RT: 22.804 min Scan# 2549

Delta R.T. -0.003 min

Lab File: BN036979.D

Acq: 08 May 2025 18:41

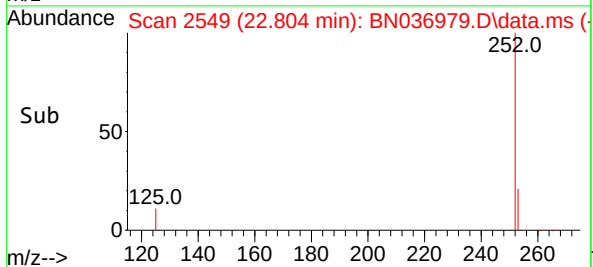
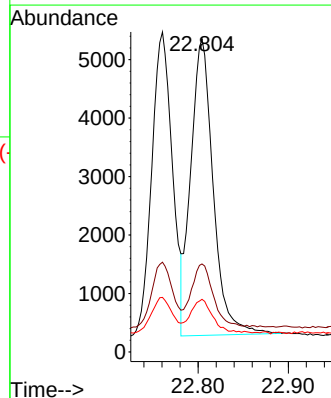
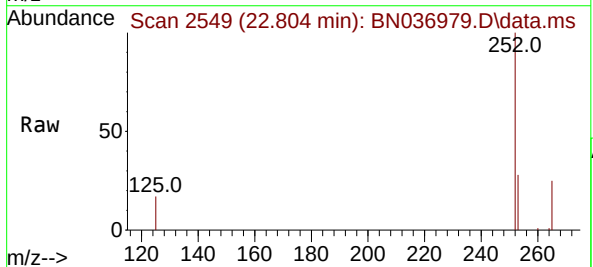
Tgt Ion:252 Resp: 8759

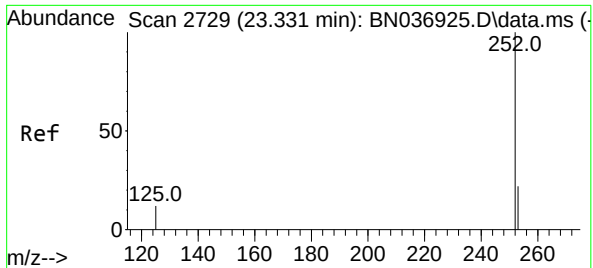
Ion Ratio Lower Upper

252 100

253 28.1 22.8 34.2

125 16.8 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.389 ng

RT: 23.325 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036979.D

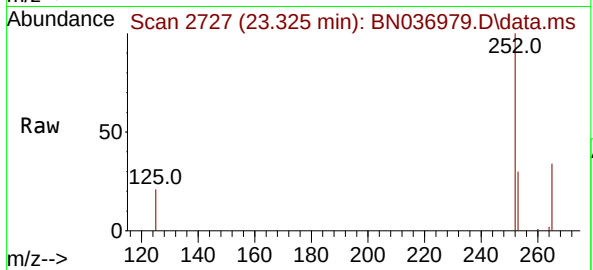
Acq: 08 May 2025 18:41

Instrument :

BNA_N

ClientSampleId :

PB167915BS



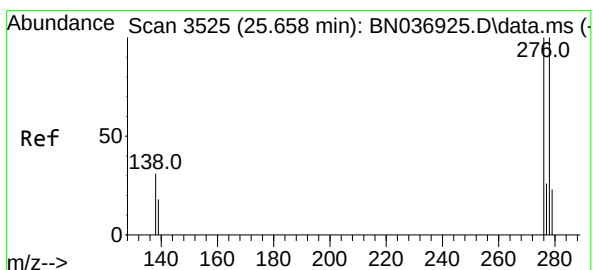
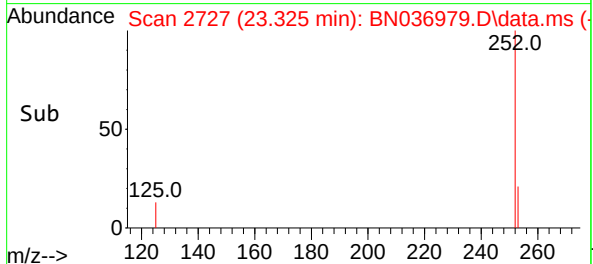
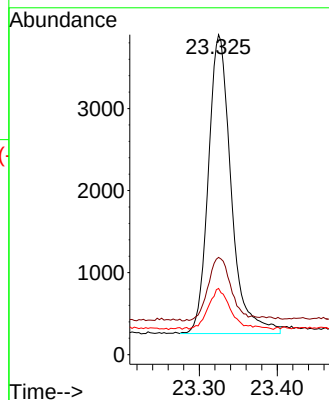
Tgt Ion:252 Resp: 7401

Ion Ratio Lower Upper

252 100

253 30.4 25.9 38.9

125 20.7 17.4 26.0



#40

Dibenzo(a,h)anthracene

Concen: 0.345 ng

RT: 25.652 min Scan# 3523

Delta R.T. -0.006 min

Lab File: BN036979.D

Acq: 08 May 2025 18:41

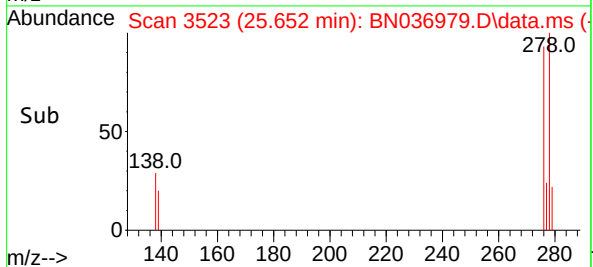
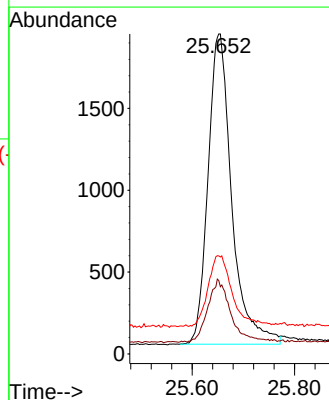
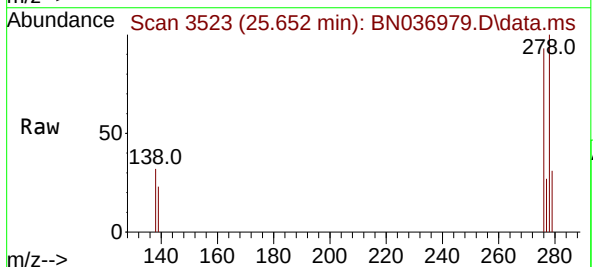
Tgt Ion:278 Resp: 6108

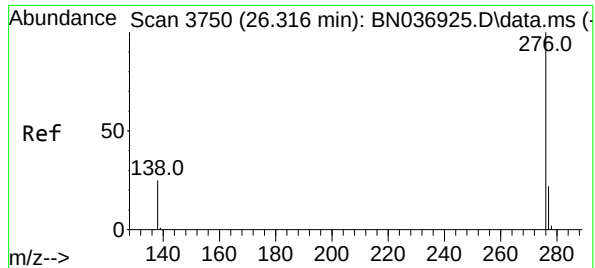
Ion Ratio Lower Upper

278 100

139 22.9 17.4 26.2

279 30.6 24.9 37.3





#41

Benzo(g,h,i)perylene

Concen: 0.313 ng

RT: 26.313 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN036979.D

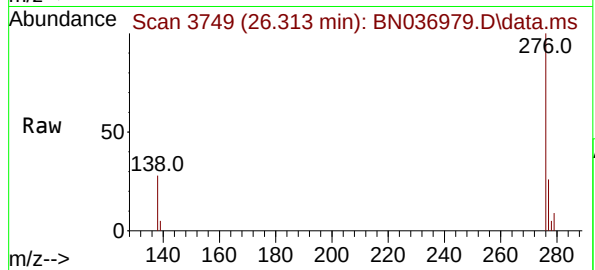
Acq: 08 May 2025 18:41

Instrument :

BNA_N

ClientSampleId :

PB167915BS



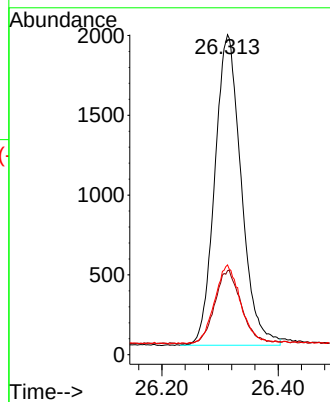
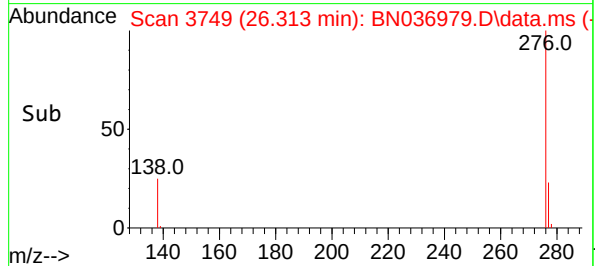
Tgt Ion:276 Resp: 6141

Ion Ratio Lower Upper

276 100

277 26.2 20.2 30.2

138 28.1 21.9 32.9



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	05/01/25
Project:	NJ Soil PT	Date Received:	05/01/25
Client Sample ID:	GB2BMS	SDG No.:	Q1872
Lab Sample ID:	Q1939-04MS	Matrix:	SOIL
Analytical Method:	SW8270ESIM	% Solid:	85.4
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036975.D	1	05/08/25 10:03	05/08/25 16:16	PB167915

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1912-24-9	Atrazine	15.9		1.30	3.90	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.22		17 - 161	55%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.23		23 - 138	57%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.22		33 - 121	55%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.19		32 - 121	49%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.20		21 - 130	50%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1700	7.625			
1146-65-2	Naphthalene-d8	4360	10.404			
15067-26-2	Acenaphthene-d10	2390	14.277			
1517-22-2	Phenanthrene-d10	5060	17.021			
1719-03-5	Chrysene-d12	4470	21.215			
1520-96-3	Perylene-d12	4300	23.424			

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\BN050825\
 Data File : BN036975.D
 Acq On : 08 May 2025 16:16
 Operator : RC/JU
 Sample : Q1939-04MS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 GB2BMS

Quant Time: May 08 16:43:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 2025
 Response via : Initial Calibration

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

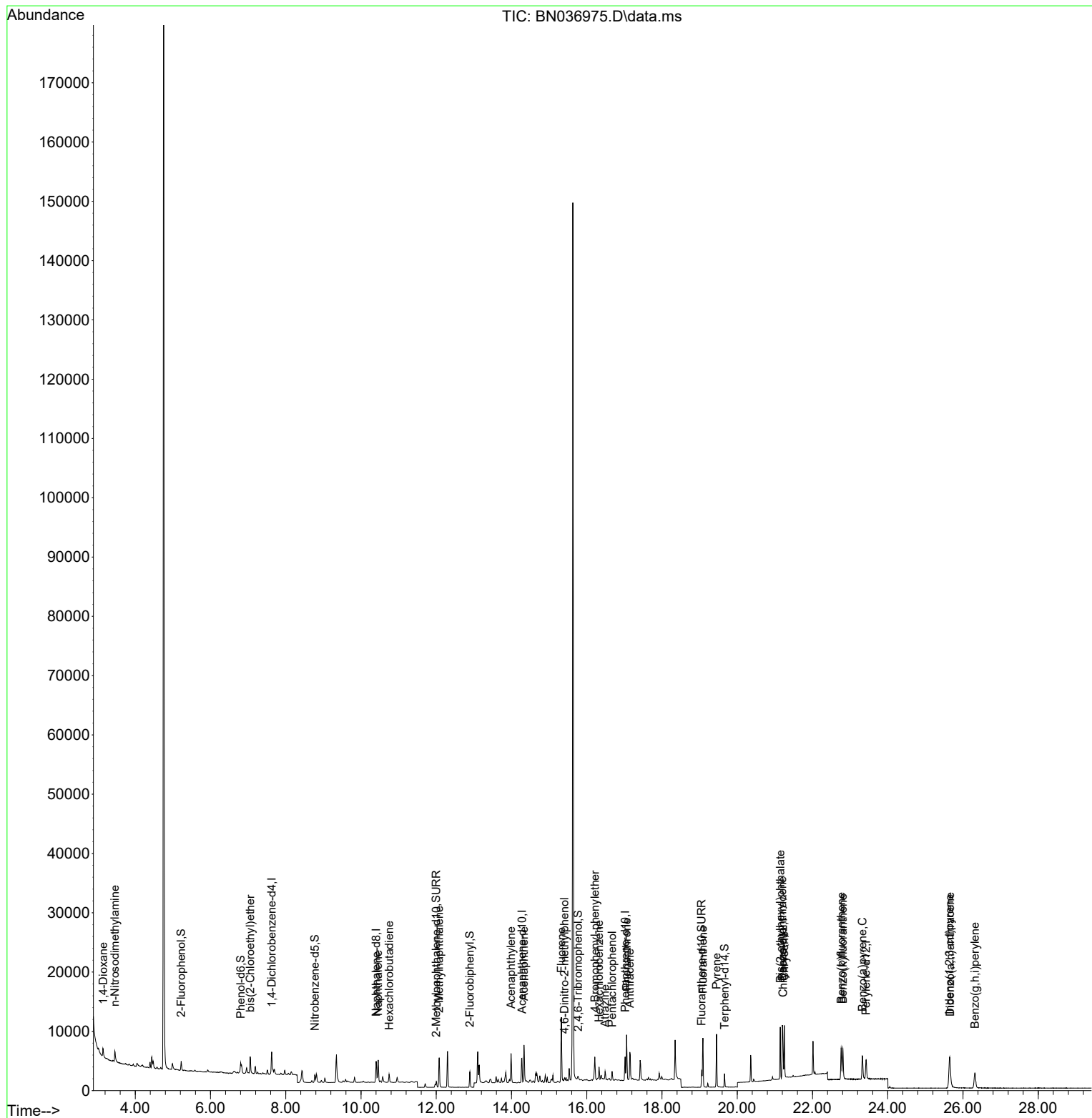
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.625	152	1704	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	4360	0.400	ng	#-0.01
13) Acenaphthene-d10	14.277	164	2385	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	5063	0.400	ng	# 0.00
29) Chrysene-d12	21.215	240	4471	0.400	ng	# 0.00
35) Perylene-d12	23.424	264	4298	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	1017	0.233	ng	0.00
5) Phenol-d6	6.802	99	1298	0.242	ng	0.00
8) Nitrobenzene-d5	8.771	82	1005	0.220	ng	-0.01
11) 2-Methylnaphthalene-d10	12.001	152	1345	0.221	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	238	0.224	ng	0.00
15) 2-Fluorobiphenyl	12.893	172	2233	0.194	ng	0.00
27) Fluoranthene-d10	19.054	212	3006	0.229	ng	0.00
31) Terphenyl-d14	19.663	244	2092	0.198	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.148	88	719	0.339	ng	# 11
3) n-Nitrosodimethylamine	3.458	42	1767	0.429	ng	90
6) bis(2-Chloroethyl)ether	7.055	93	1918	0.386	ng	99
9) Naphthalene	10.458	128	4753	0.375	ng	100
10) Hexachlorobutadiene	10.746	225	1025	0.373	ng	# 98
12) 2-Methylnaphthalene	12.077	142	3444	0.420	ng	99
16) Acenaphthylene	13.989	152	4556	0.391	ng	97
17) Acenaphthene	14.331	154	2973	0.388	ng	98
18) Fluorene	15.325	166	4067	0.406	ng	99
20) 4,6-Dinitro-2-methylph...	15.410	198	432	0.322	ng	# 73
21) 4-Bromophenyl-phenylether	16.214	248	1264	0.374	ng	# 67
22) Hexachlorobenzene	16.326	284	1266	0.342	ng	96
23) Atrazine	16.487	200	1110	0.407	ng	# 92
24) Pentachlorophenol	16.673	266	623	0.314	ng	98
25) Phenanthrene	17.058	178	7313	0.438	ng	99
26) Anthracene	17.145	178	5839	0.386	ng	99
28) Fluoranthene	19.087	202	7262	0.388	ng	99
30) Pyrene	19.449	202	7672	0.356	ng	99
32) Benzo(a)anthracene	21.198	228	6467	0.393	ng	98
33) Chrysene	21.251	228	7045	0.397	ng	99
34) Bis(2-ethylhexyl)phtha...	21.144	149	6904	0.737	ng	99
36) Indeno(1,2,3-cd)pyrene	25.637	276	6779	0.386	ng	99
37) Benzo(b)fluoranthene	22.760	252	6538	0.362	ng	98
38) Benzo(k)fluoranthene	22.807	252	6781	0.373	ng	100
39) Benzo(a)pyrene	23.328	252	5810	0.391	ng	96
40) Dibenzo(a,h)anthracene	25.655	278	5158	0.373	ng	99
41) Benzo(g,h,i)perylene	26.318	276	5341	0.348	ng	98

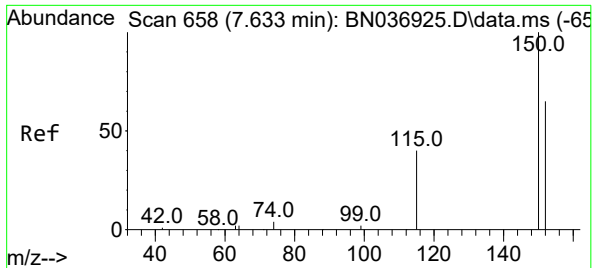
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050825\
Data File : BN036975.D
Acq On : 08 May 2025 16:16
Operator : RC/JU
Sample : Q1939-04MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
GB2BMS

Quant Time: May 08 16:43:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

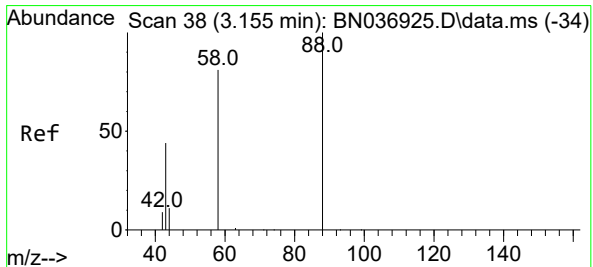
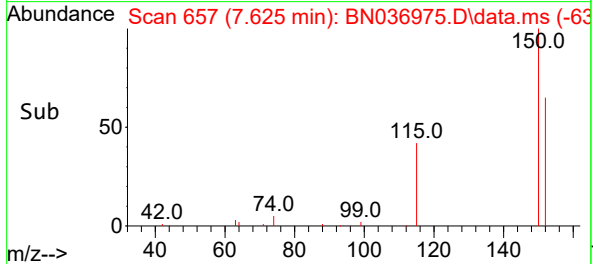
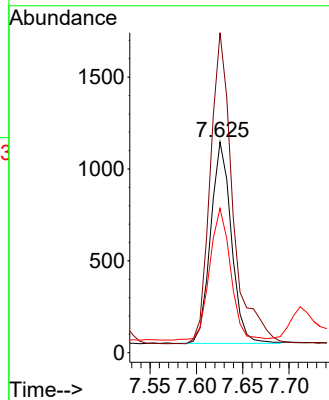
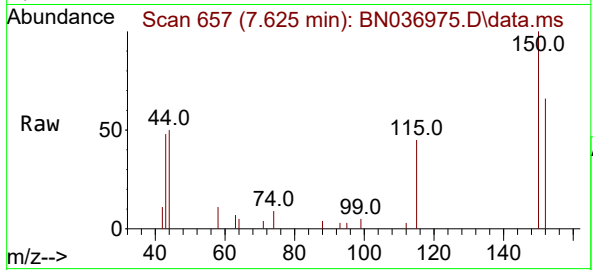




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.625 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

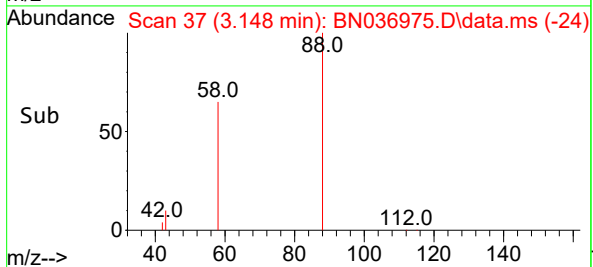
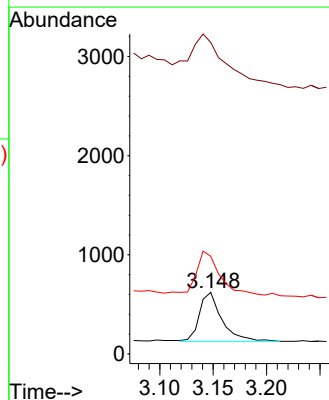
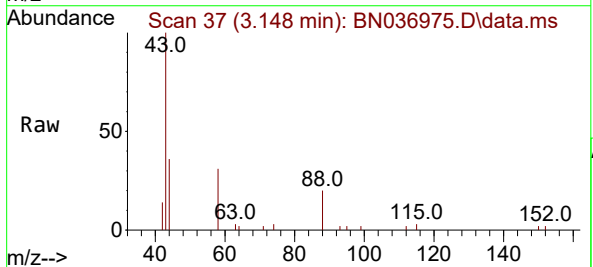
Instrument :
BNA_N
ClientSampleId :
GB2BMS

Tgt Ion:152 Resp: 1704
Ion Ratio Lower Upper
152 100
150 151.9 121.1 181.7
115 68.5 51.8 77.6

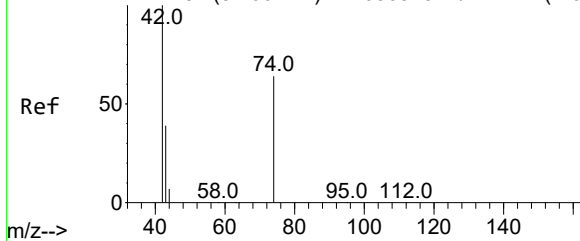


#2
1,4-Dioxane
Concen: 0.339 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion: 88 Resp: 719
Ion Ratio Lower Upper
88 100
43 187.6 37.9 56.9#
58 99.9 65.8 98.6#



Abundance Scan 81 (3.466 min): BN036925.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 0.429 ng

RT: 3.458 min Scan# 80

Delta R.T. -0.007 min

Lab File: BN036975.D

Acq: 08 May 2025 16:16

Instrument :

BNA_N

ClientSampleId :

GB2BMS

Tgt Ion: 42 Resp: 1767

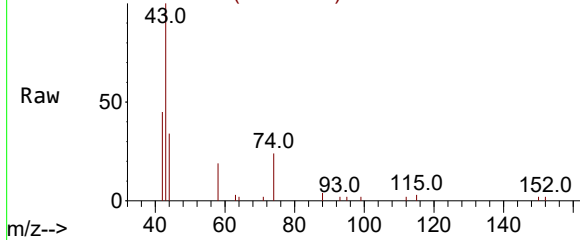
Ion Ratio Lower Upper

42 100

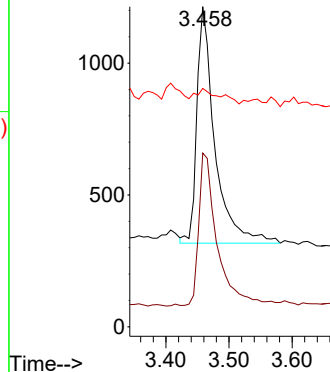
74 65.7 59.9 89.9

44 8.8 7.5 11.3

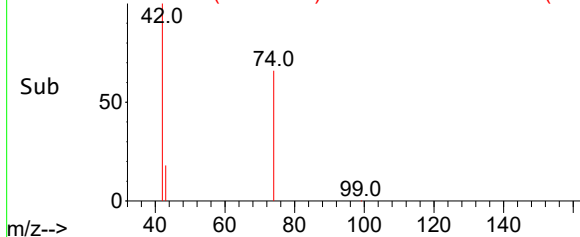
Abundance Scan 80 (3.458 min): BN036975.D\data.ms



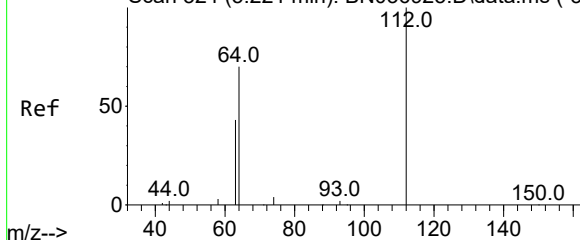
Abundance



Abundance Scan 80 (3.458 min): BN036975.D\data.ms (-60)



Abundance Scan 324 (5.221 min): BN036925.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.233 ng

RT: 5.220 min Scan# 324

Delta R.T. -0.000 min

Lab File: BN036975.D

Acq: 08 May 2025 16:16

Tgt Ion: 112 Resp: 1017

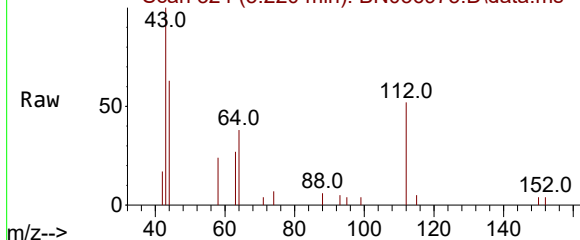
Ion Ratio Lower Upper

112 100

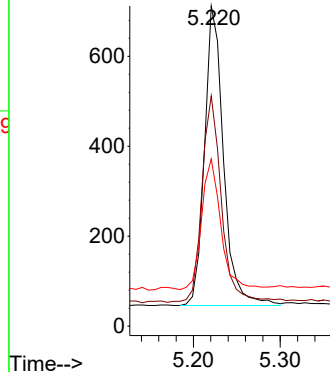
64 71.0 55.7 83.5

63 44.1 33.9 50.9

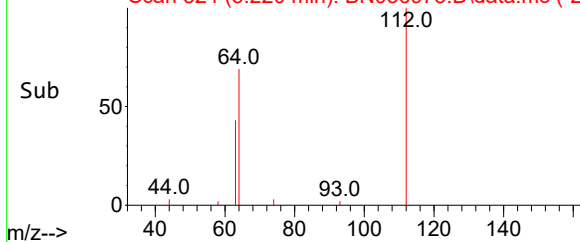
Abundance Scan 324 (5.220 min): BN036975.D\data.ms

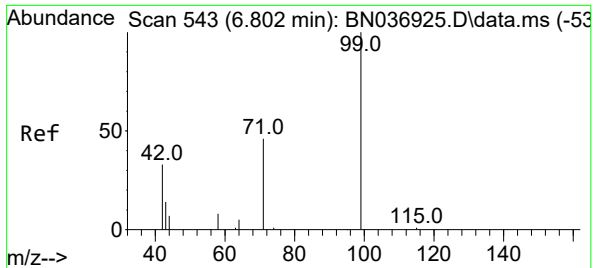


Abundance



Abundance Scan 324 (5.220 min): BN036975.D\data.ms (-29)

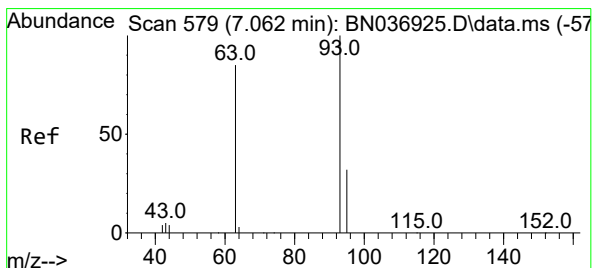
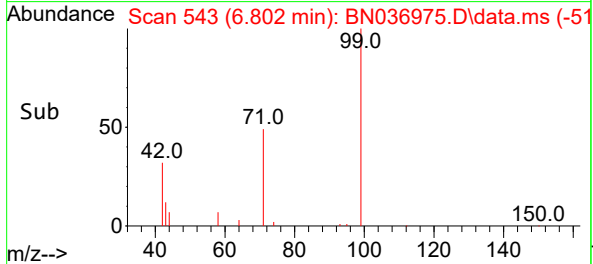
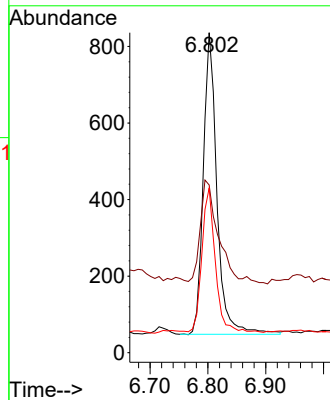
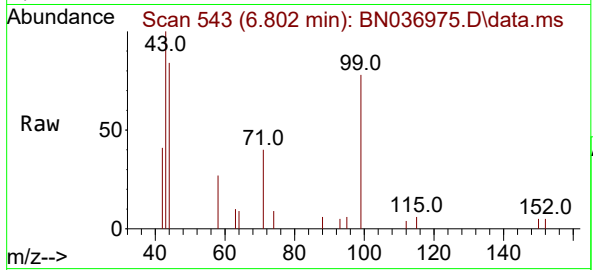




#5
Phenol-d6
Concen: 0.242 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.000 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

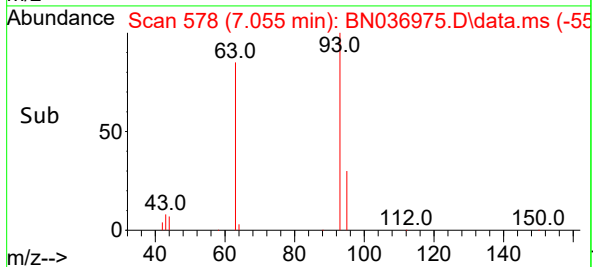
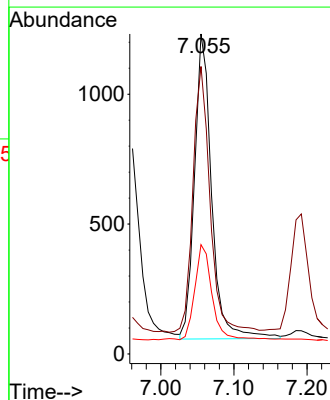
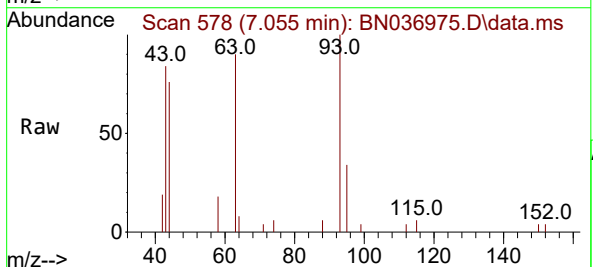
Instrument :
BNA_N
ClientSampleId :
GB2BMS

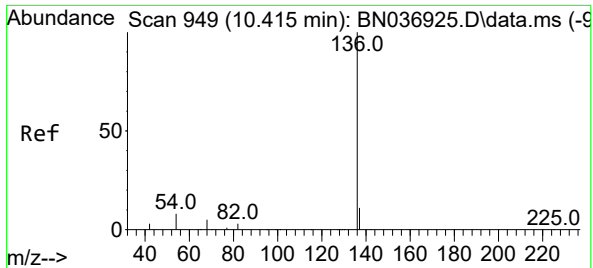
Tgt Ion: 99 Resp: 1298
Ion Ratio Lower Upper
99 100
42 46.3 29.6 44.4#
71 47.3 36.0 54.0



#6
bis(2-Chloroethyl)ether
Concen: 0.386 ng
RT: 7.055 min Scan# 578
Delta R.T. -0.007 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion: 93 Resp: 1918
Ion Ratio Lower Upper
93 100
63 86.5 69.0 103.6
95 33.7 25.4 38.0

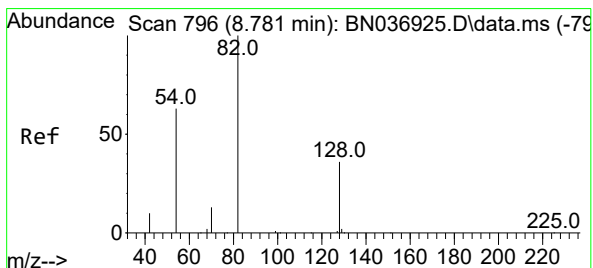
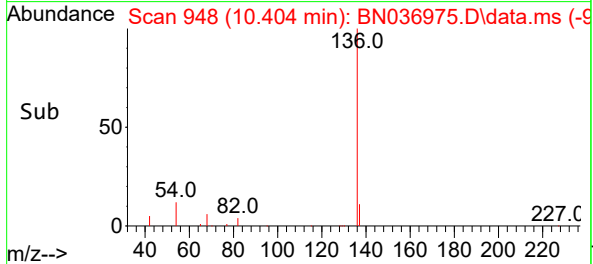
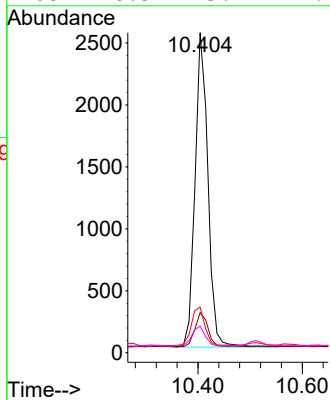
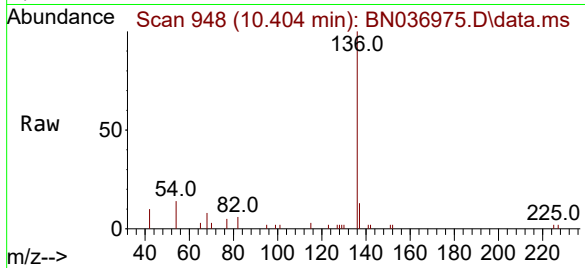




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

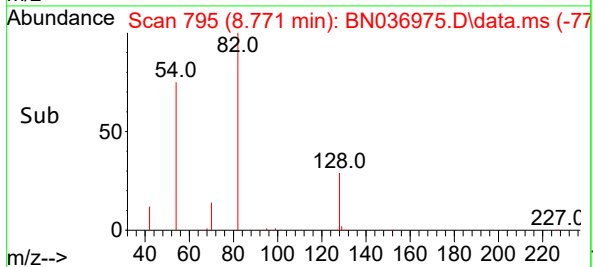
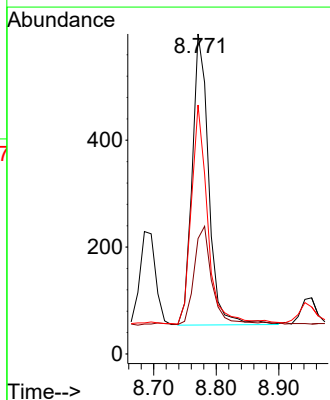
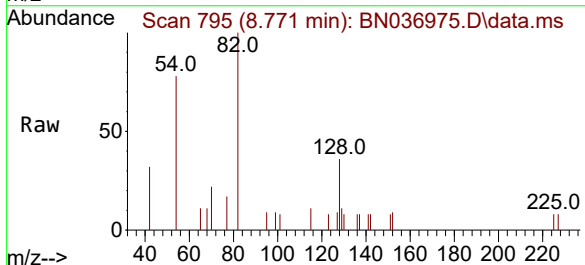
Instrument :
BNA_N
ClientSampleId :
GB2BMS

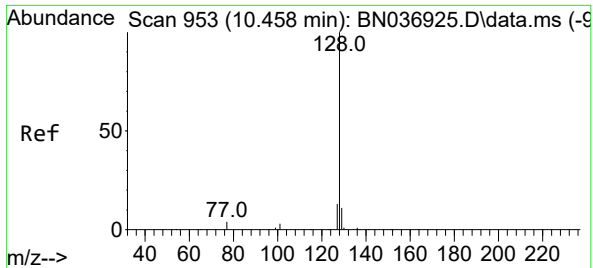
Tgt Ion:136 Resp: 4360
Ion Ratio Lower Upper
136 100
137 12.5 9.7 14.5
54 14.2 8.0 12.0#
68 8.3 5.1 7.7#



#8
Nitrobenzene-d5
Concen: 0.220 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.011 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion: 82 Resp: 1005
Ion Ratio Lower Upper
82 100
128 36.1 30.7 46.1
54 77.8 52.1 78.1

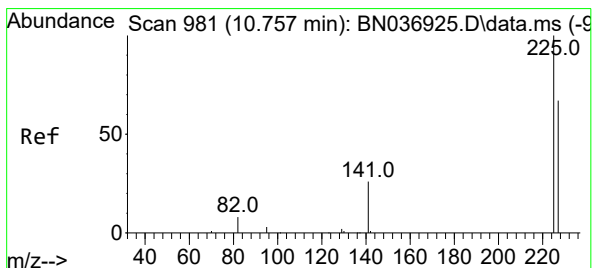
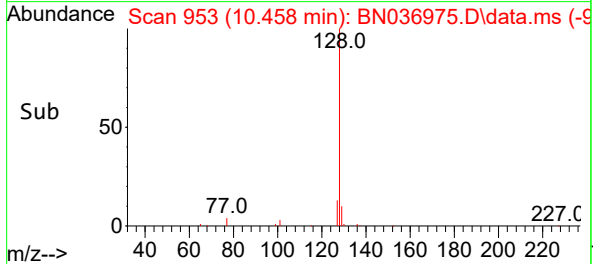
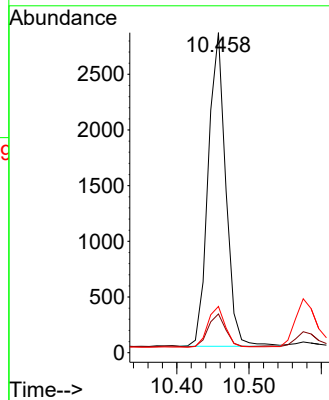
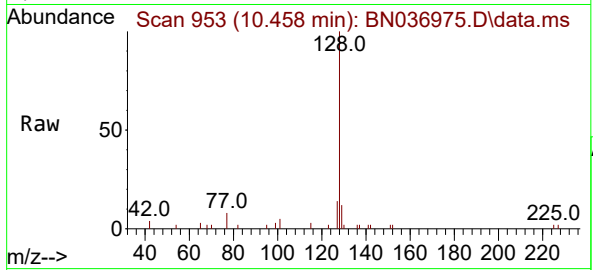




#9
Naphthalene
Concen: 0.375 ng
RT: 10.458 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

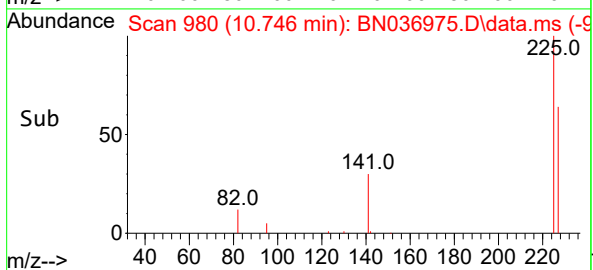
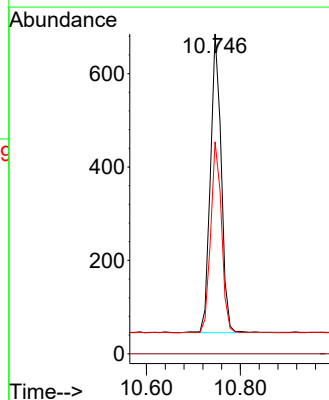
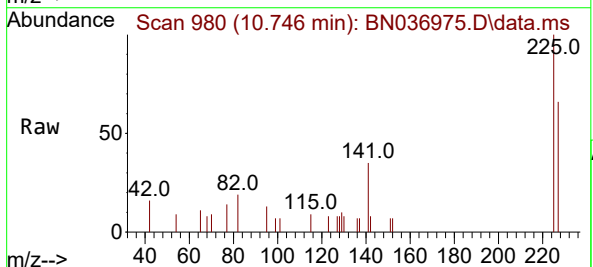
Instrument :
BNA_N
ClientSampleId :
GB2BMS

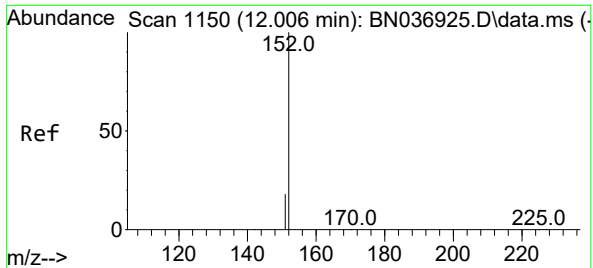
Tgt Ion:128 Resp: 4753
Ion Ratio Lower Upper
128 100
129 12.1 9.8 14.6
127 14.5 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.373 ng
RT: 10.746 min Scan# 980
Delta R.T. -0.011 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion:225 Resp: 1025
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.9 52.2 78.4

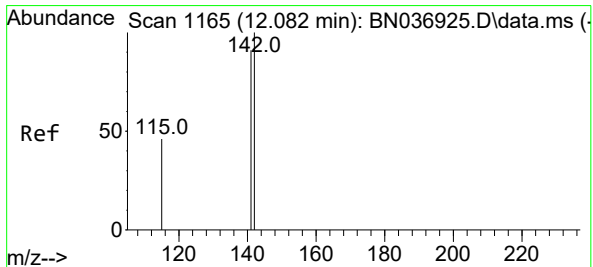
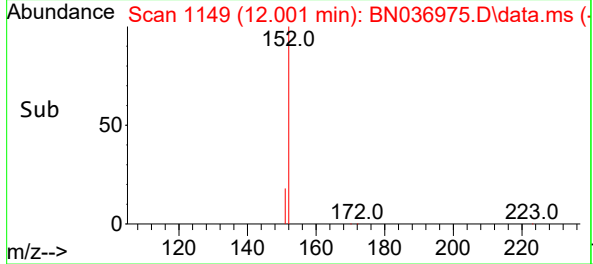
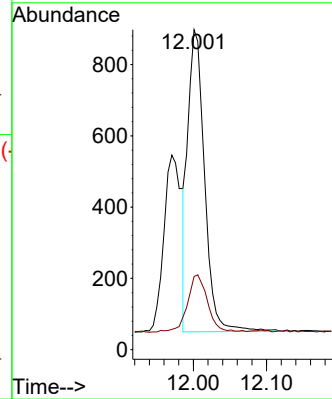
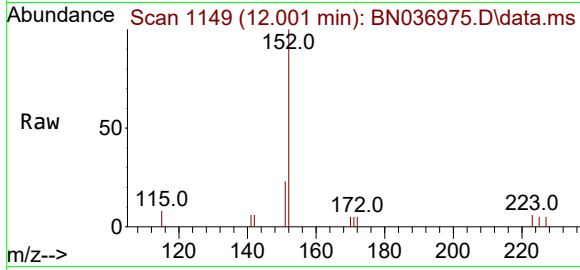




#11
2-Methylnaphthalene-d10
Concen: 0.221 ng
RT: 12.001 min Scan# 1149
Delta R.T. -0.005 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

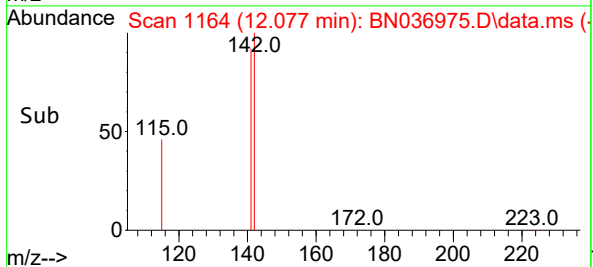
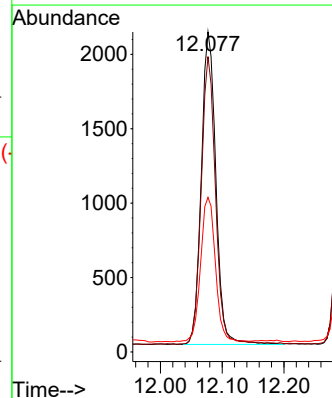
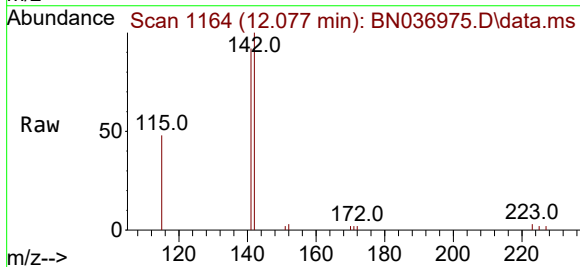
Instrument :
BNA_N
ClientSampleId :
GB2BMS

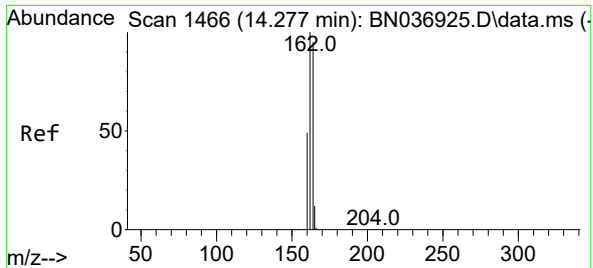
Tgt Ion:152 Resp: 1345
Ion Ratio Lower Upper
152 100
151 22.9 16.9 25.3



#12
2-Methylnaphthalene
Concen: 0.420 ng
RT: 12.077 min Scan# 1164
Delta R.T. -0.005 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion:142 Resp: 3444
Ion Ratio Lower Upper
142 100
141 92.3 72.8 109.2
115 48.3 38.2 57.4

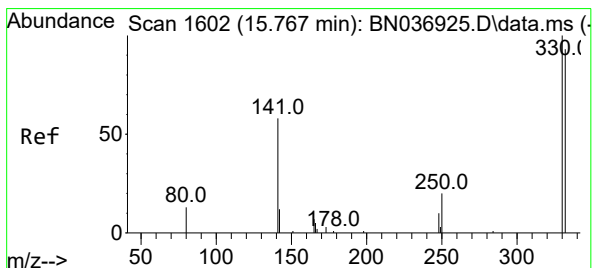
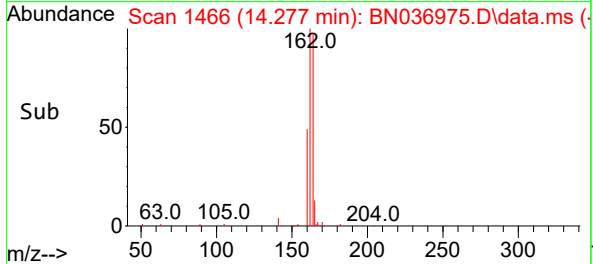
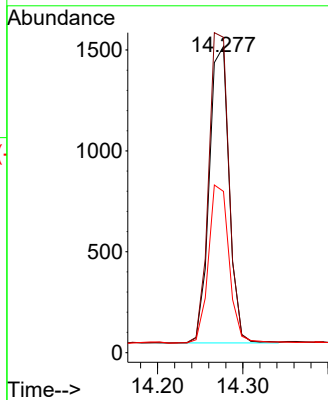
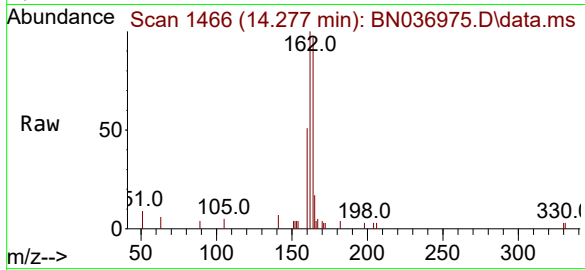




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

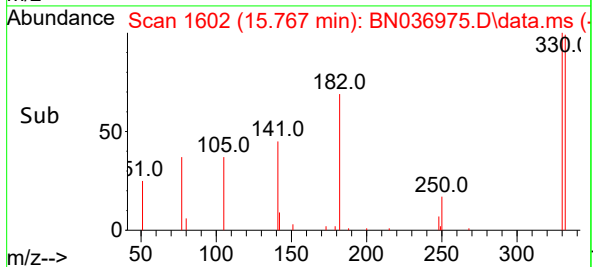
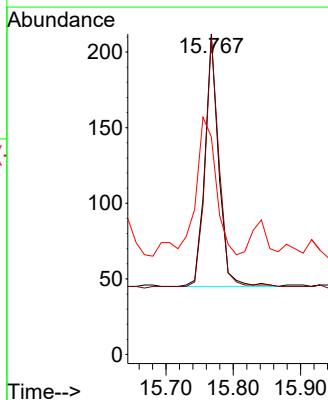
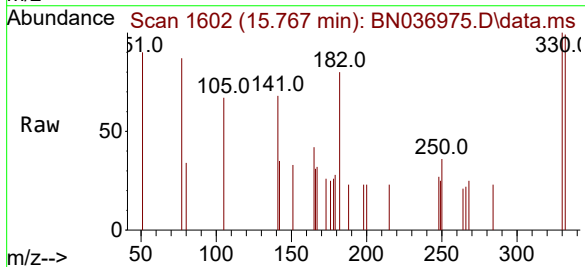
Instrument :
BNA_N
ClientSampleId :
GB2BMS

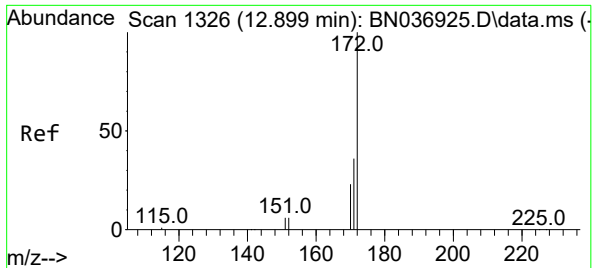
Tgt Ion:164 Resp: 2385
Ion Ratio Lower Upper
164 100
162 103.0 83.8 125.8
160 52.6 42.0 63.0



#14
2,4,6-Tribromophenol
Concen: 0.224 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion:330 Resp: 238
Ion Ratio Lower Upper
330 100
332 98.7 76.3 114.5
141 85.7 45.4 68.2#

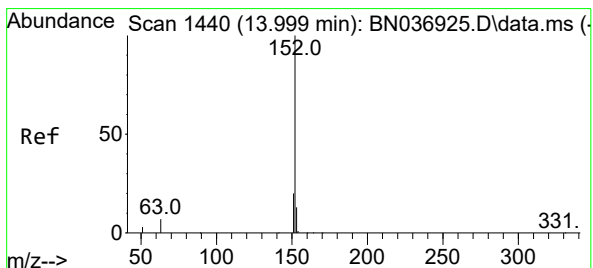
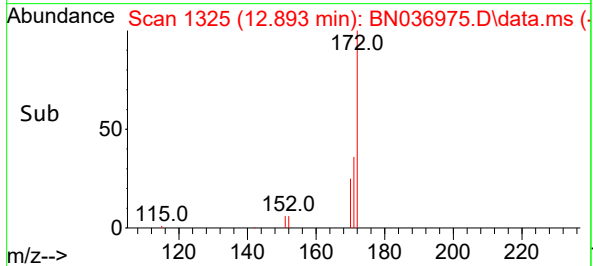
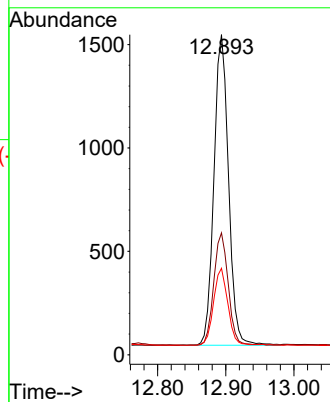
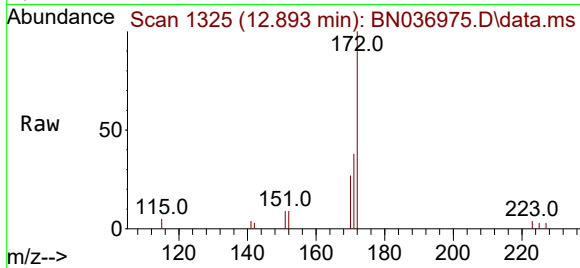




#15
2-Fluorobiphenyl
Concen: 0.194 ng
RT: 12.893 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

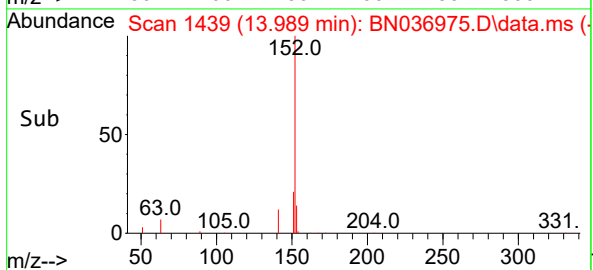
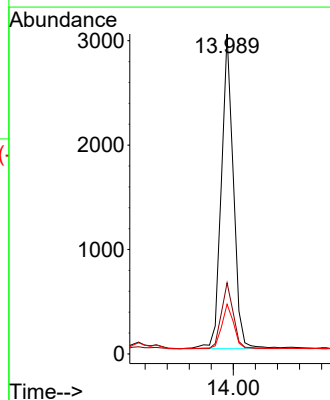
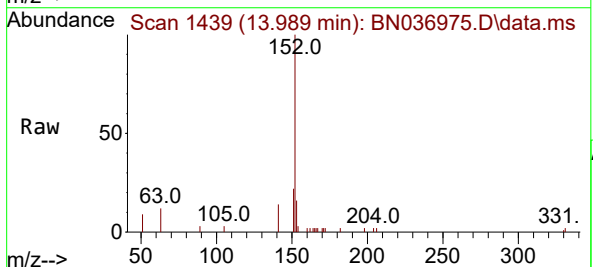
Instrument :
BNA_N
ClientSampleId :
GB2BMS

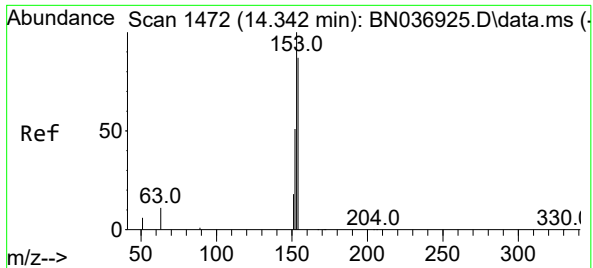
Tgt Ion	Ratio	Lower	Upper
172	100		
171	38.0	29.4	44.0
170	27.0	19.4	29.0



#16
Acenaphthylene
Concen: 0.391 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.0	24.0
153	14.6	10.2	15.2

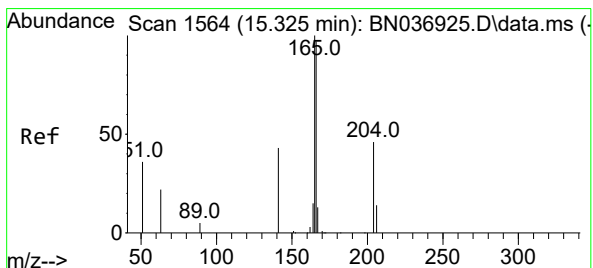
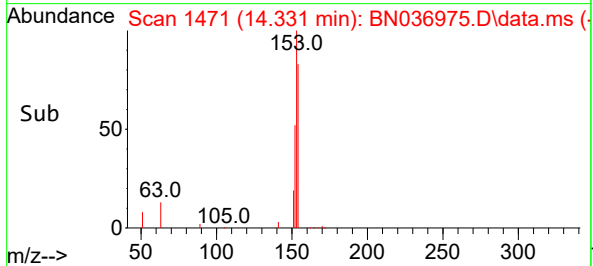
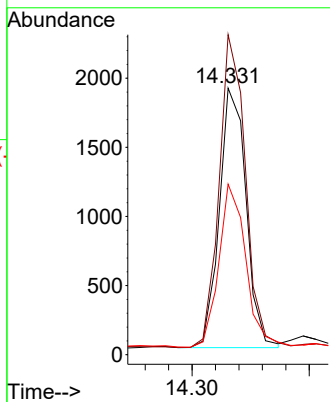
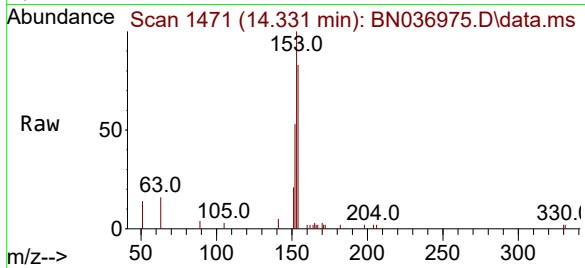




#17
Acenaphthene
Concen: 0.388 ng
RT: 14.331 min Scan# 1471
Delta R.T. -0.011 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

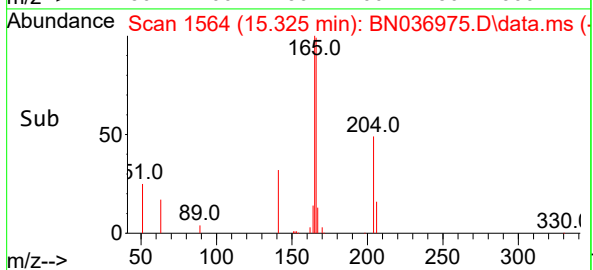
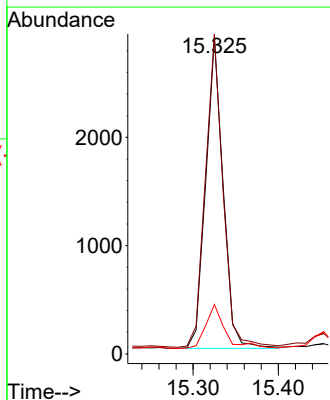
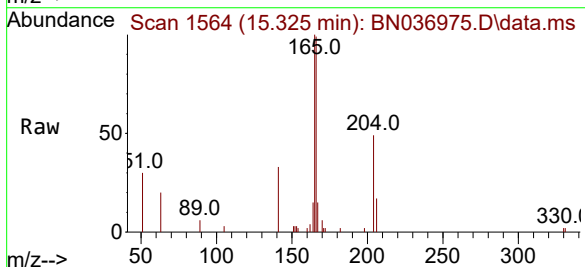
Instrument :
BNA_N
ClientSampleId :
GB2BMS

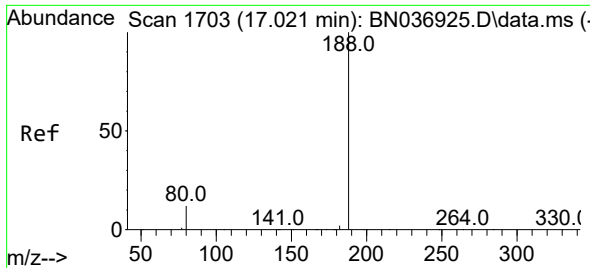
Tgt Ion:154 Resp: 2973
Ion Ratio Lower Upper
154 100
153 118.5 93.4 140.2
152 63.5 49.5 74.3



#18
Fluorene
Concen: 0.406 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion:166 Resp: 4067
Ion Ratio Lower Upper
166 100
165 101.5 80.8 121.2
167 15.7 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036975.D

Acq: 08 May 2025 16:16

Instrument :

BNA_N

ClientSampleId :

GB2BMS

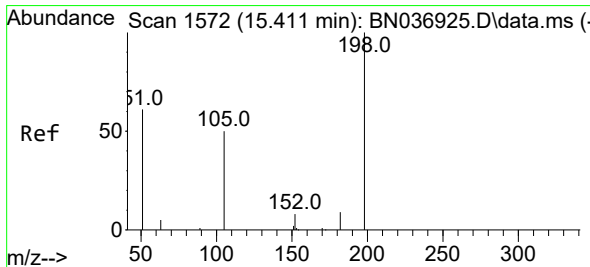
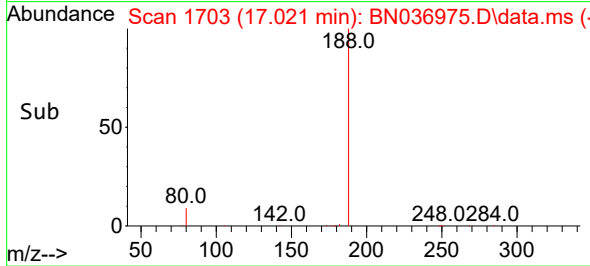
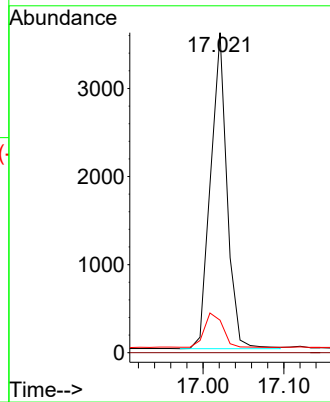
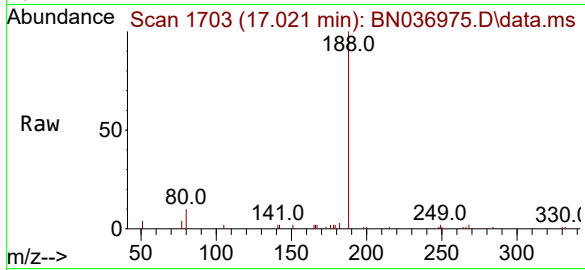
Tgt Ion:188 Resp: 5063

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.2 10.7 16.1#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.322 ng

RT: 15.410 min Scan# 1572

Delta R.T. -0.001 min

Lab File: BN036975.D

Acq: 08 May 2025 16:16

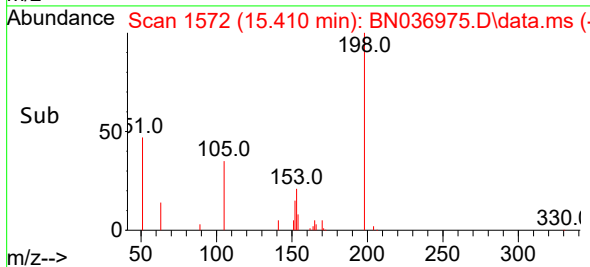
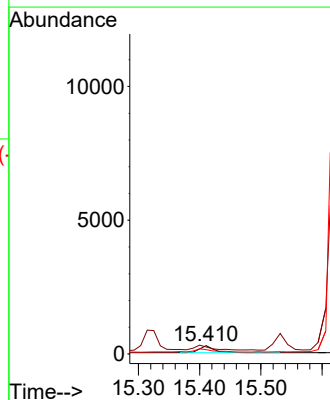
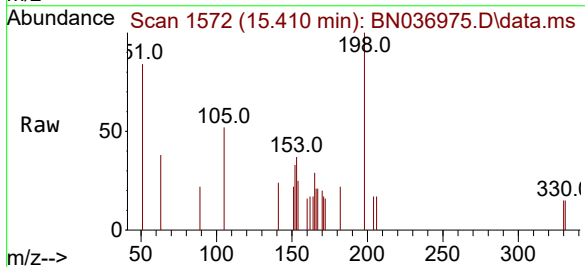
Tgt Ion:198 Resp: 432

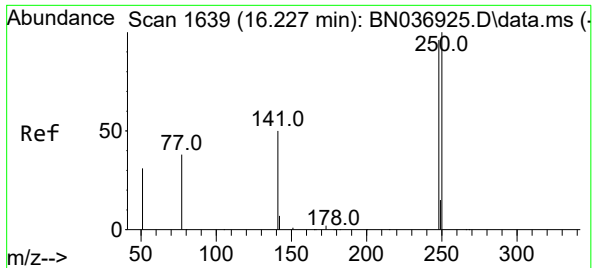
Ion Ratio Lower Upper

198 100

51 84.5 97.9 146.9#

105 52.1 50.0 75.0

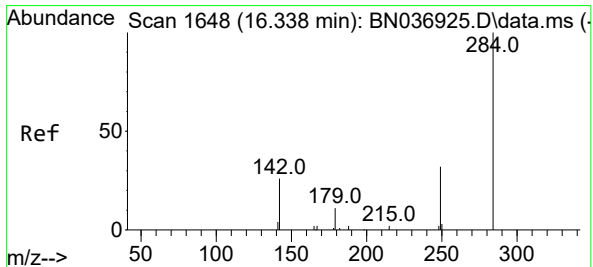
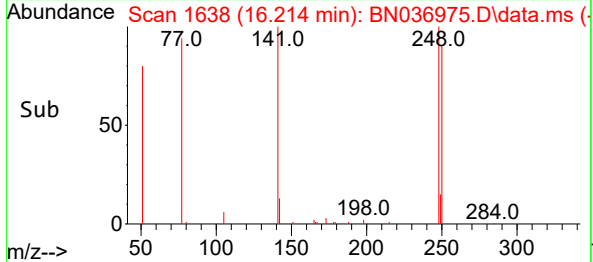
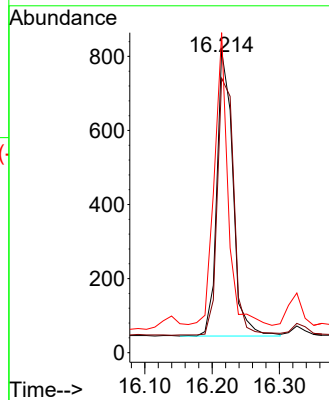
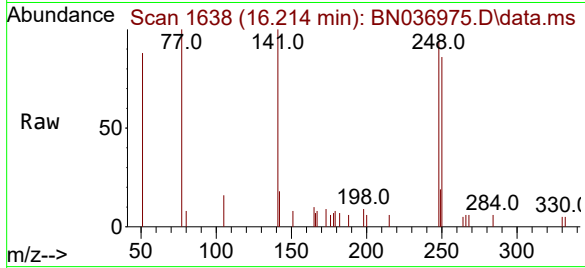




#21
4-Bromophenyl-phenylether
Concen: 0.374 ng
RT: 16.214 min Scan# 1638
Delta R.T. -0.013 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

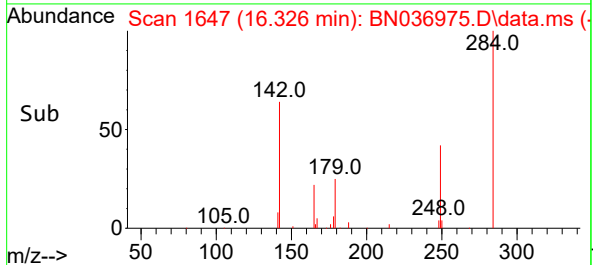
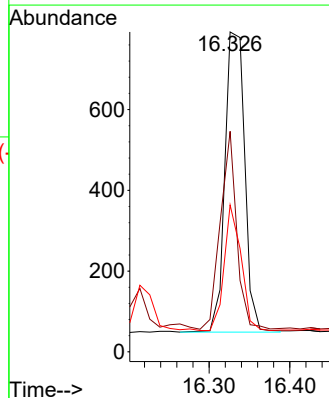
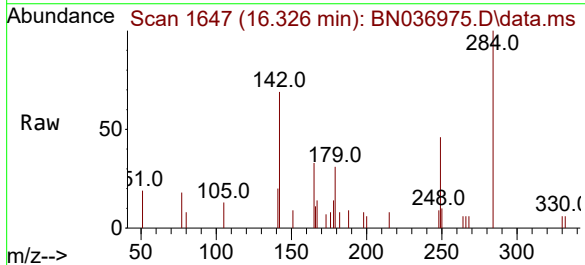
Instrument :
BNA_N
ClientSampleId :
GB2BMS

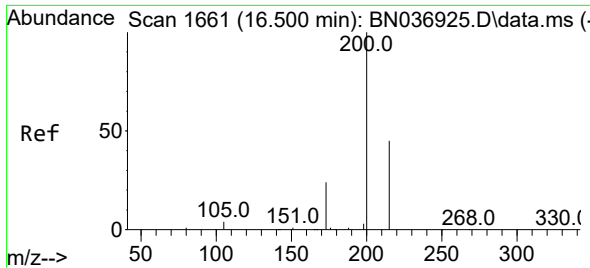
Tgt Ion	Ratio	Lower	Upper
248	100		
250	90.9	83.7	125.5
141	106.0	43.8	65.8



#22
Hexachlorobenzene
Concen: 0.342 ng
RT: 16.326 min Scan# 1647
Delta R.T. -0.013 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion	Ratio	Lower	Upper
284	100		
142	54.1	40.0	60.0
249	35.7	28.2	42.2





#23

Atrazine

Concen: 0.407 ng

RT: 16.487 min Scan# 1660

Delta R.T. -0.013 min

Lab File: BN036975.D

Acq: 08 May 2025 16:16

Instrument :

BNA_N

ClientSampleId :

GB2BMS

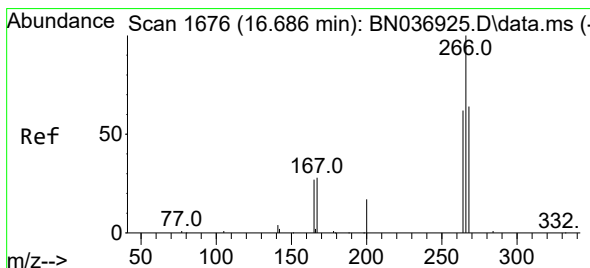
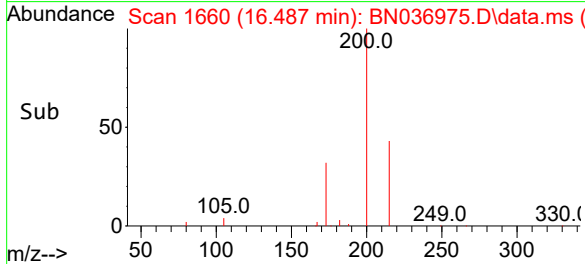
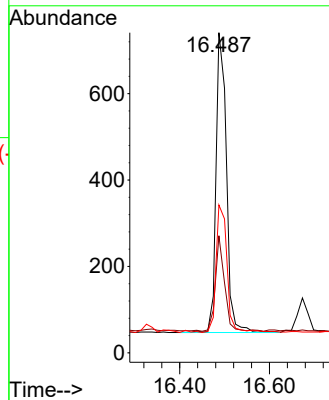
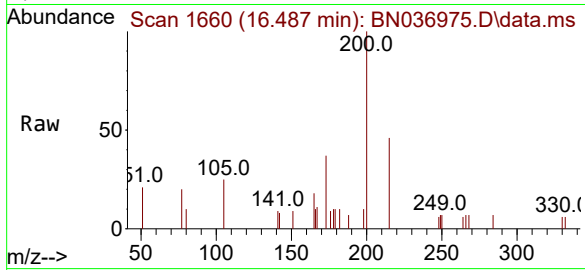
Tgt Ion:200 Resp: 1110

Ion Ratio Lower Upper

200 100

173 36.6 22.4 33.6#

215 46.2 38.6 57.8



#24

Pentachlorophenol

Concen: 0.314 ng

RT: 16.673 min Scan# 1675

Delta R.T. -0.013 min

Lab File: BN036975.D

Acq: 08 May 2025 16:16

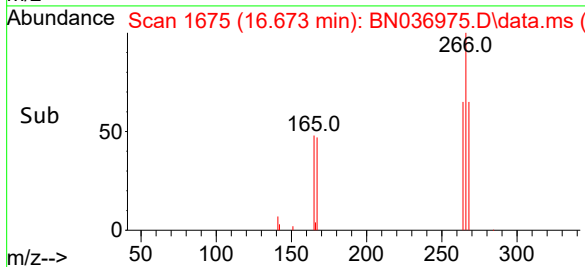
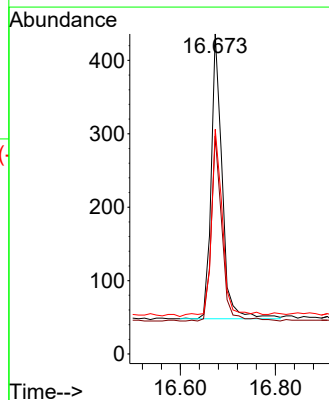
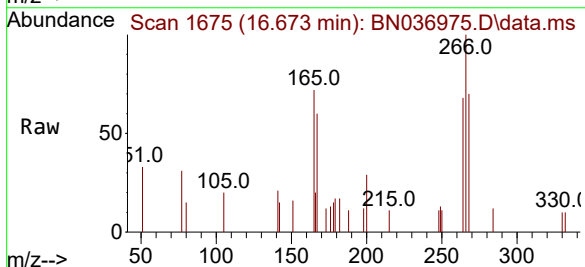
Tgt Ion:266 Resp: 623

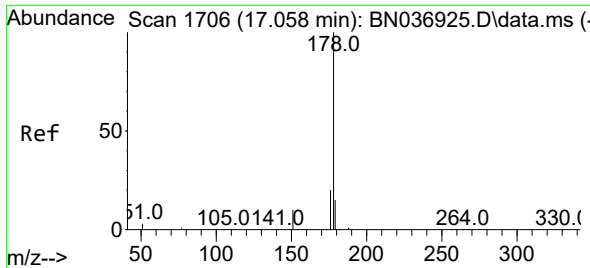
Ion Ratio Lower Upper

266 100

264 63.4 49.9 74.9

268 67.6 52.2 78.4

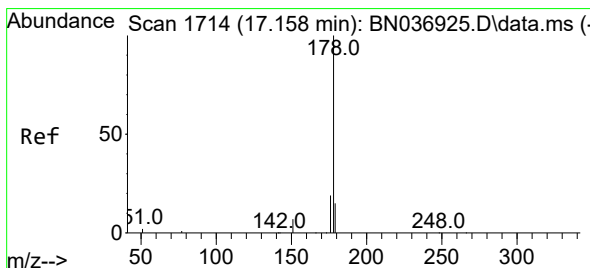
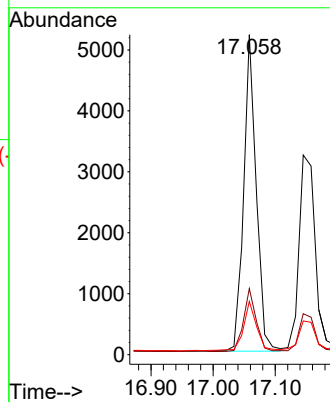
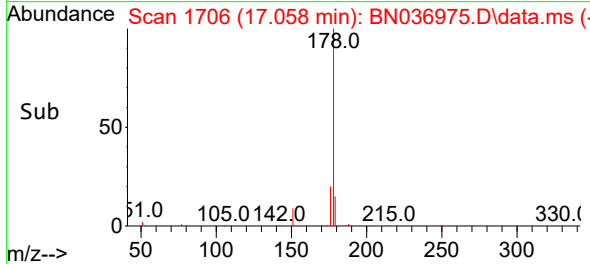
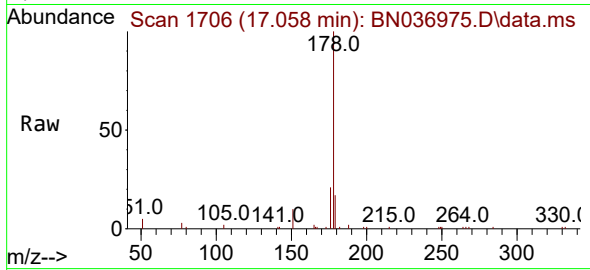




#25
Phenanthrene
Concen: 0.438 ng
RT: 17.058 min Scan# 1712
Delta R.T. -0.000 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

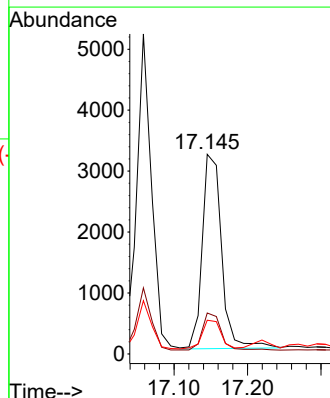
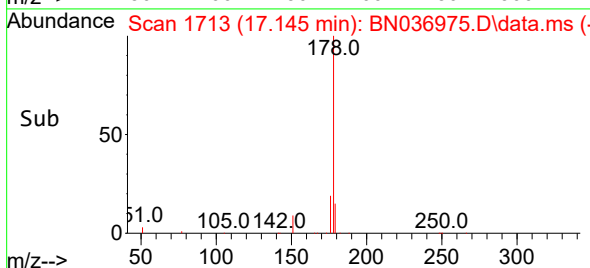
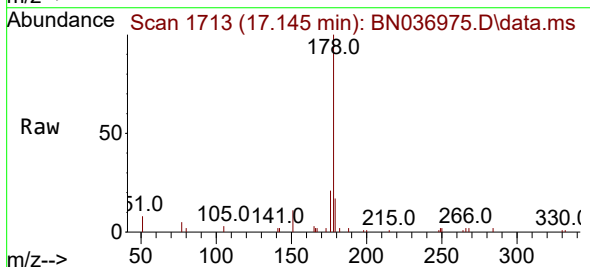
Instrument :
BNA_N
ClientSampleId :
GB2BMS

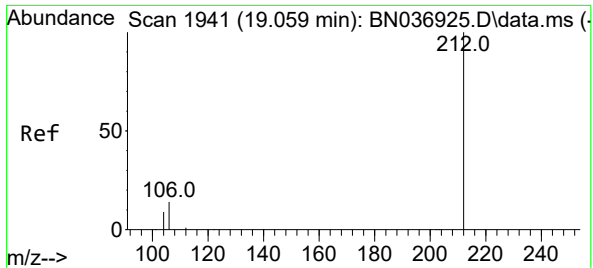
Tgt Ion:178 Resp: 7313
Ion Ratio Lower Upper
178 100
176 19.8 15.7 23.5
179 16.4 12.4 18.6



#26
Anthracene
Concen: 0.386 ng
RT: 17.145 min Scan# 1713
Delta R.T. -0.013 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion:178 Resp: 5839
Ion Ratio Lower Upper
178 100
176 18.9 15.3 22.9
179 14.2 12.1 18.1

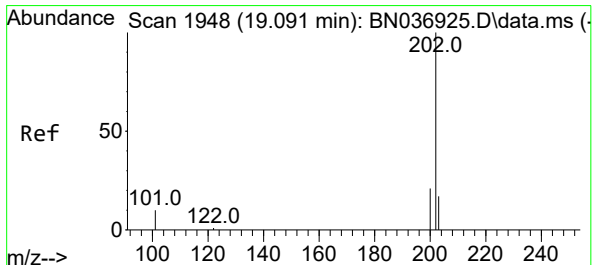
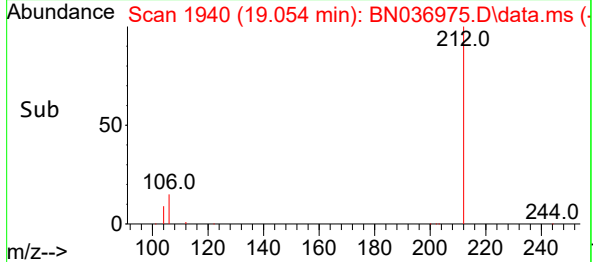
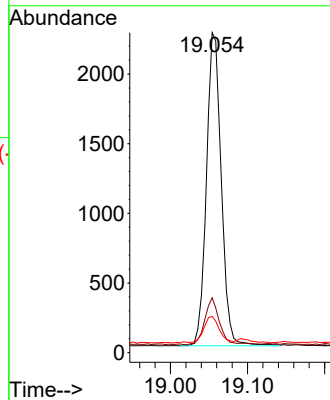
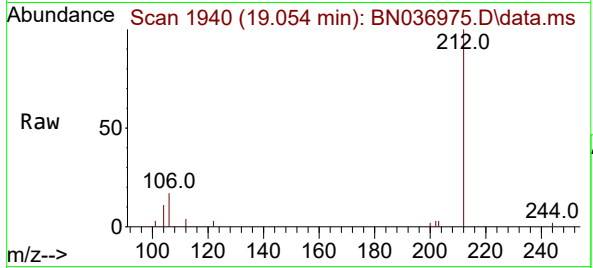




#27
Fluoranthene-d10
Concen: 0.229 ng
RT: 19.054 min Scan# 1941
Delta R.T. -0.005 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

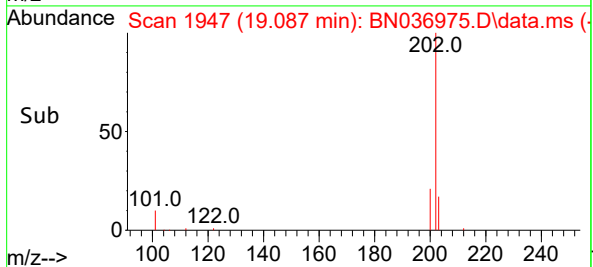
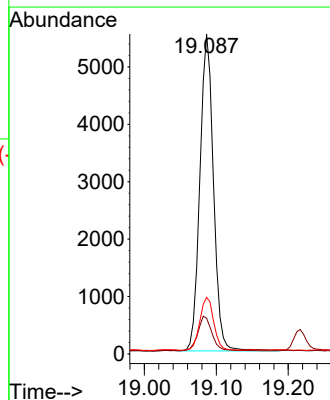
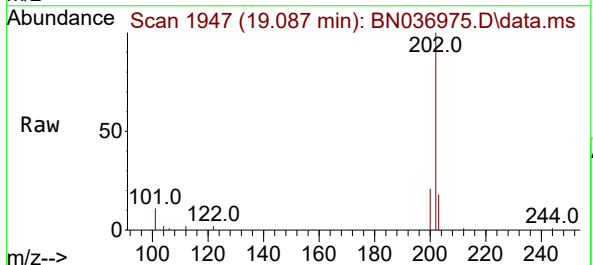
Instrument :
BNA_N
ClientSampleId :
GB2BMS

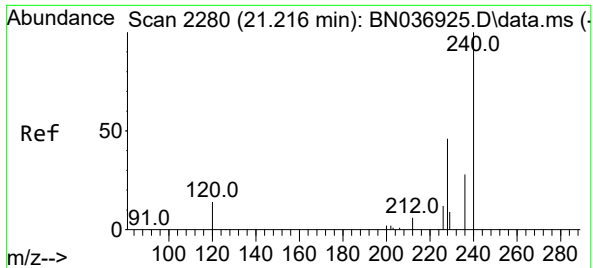
Tgt Ion:212 Resp: 3006
Ion Ratio Lower Upper
212 100
106 14.9 11.6 17.4
104 9.1 7.0 10.4



#28
Fluoranthene
Concen: 0.388 ng
RT: 19.087 min Scan# 1947
Delta R.T. -0.005 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion:202 Resp: 7262
Ion Ratio Lower Upper
202 100
101 11.1 8.5 12.7
203 17.0 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.215 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036975.D

Acq: 08 May 2025 16:16

Instrument :

BNA_N

ClientSampleId :

GB2BMS

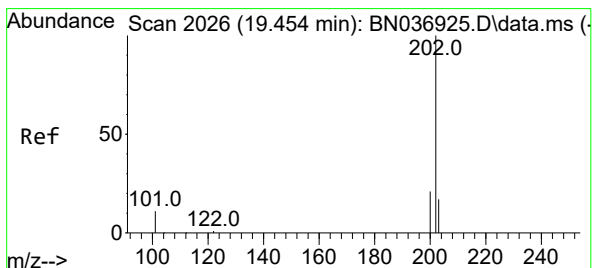
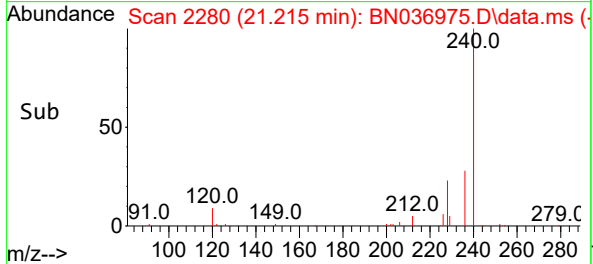
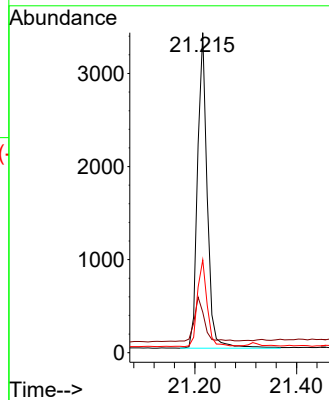
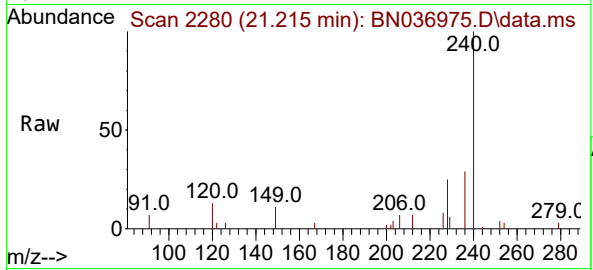
Tgt Ion:240 Resp: 4471

Ion Ratio Lower Upper

240 100

120 12.7 14.1 21.1#

236 29.0 23.8 35.8



#30

Pyrene

Concen: 0.356 ng

RT: 19.449 min Scan# 2025

Delta R.T. -0.005 min

Lab File: BN036975.D

Acq: 08 May 2025 16:16

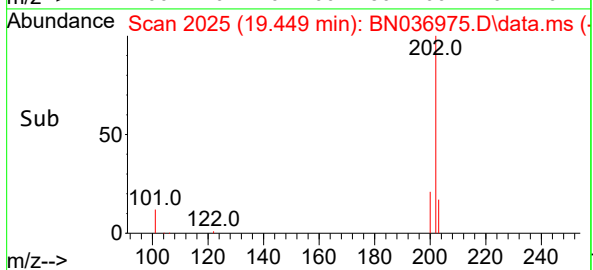
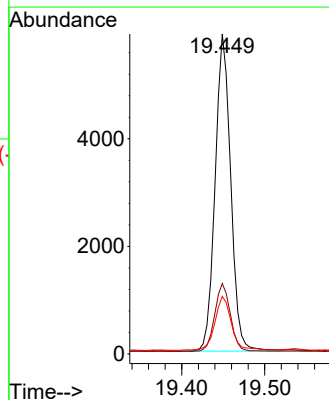
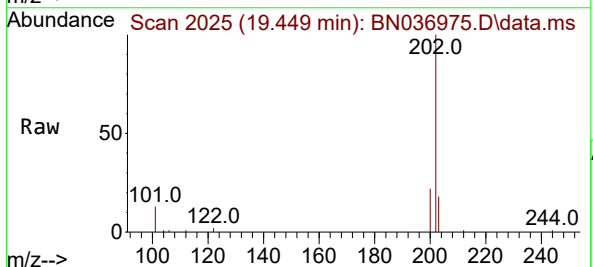
Tgt Ion:202 Resp: 7672

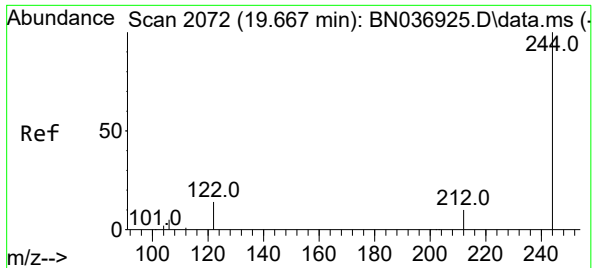
Ion Ratio Lower Upper

202 100

200 21.5 17.0 25.6

203 17.9 14.0 21.0

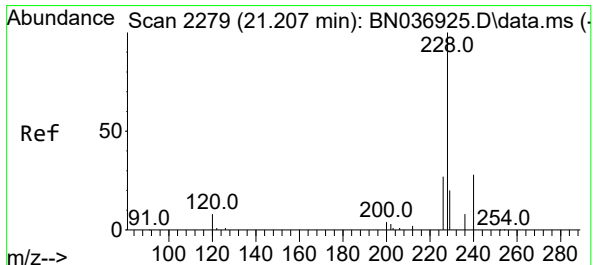
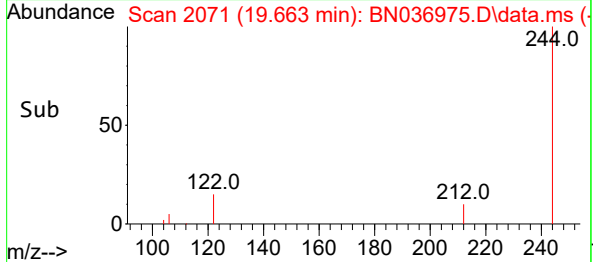
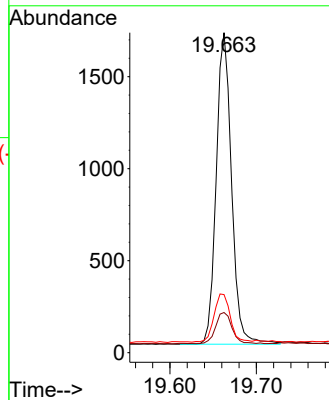
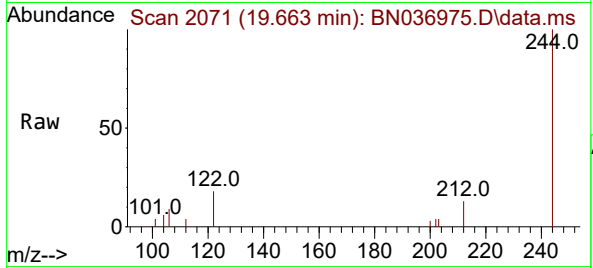




#31
Terphenyl-d14
Concen: 0.198 ng
RT: 19.663 min Scan# 2072
Delta R.T. -0.005 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

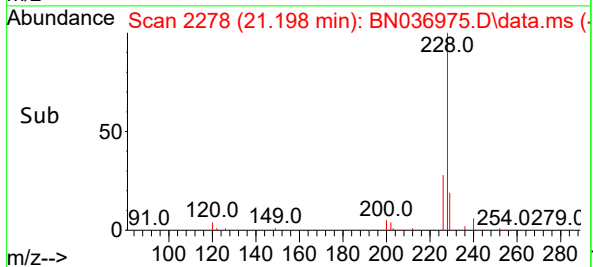
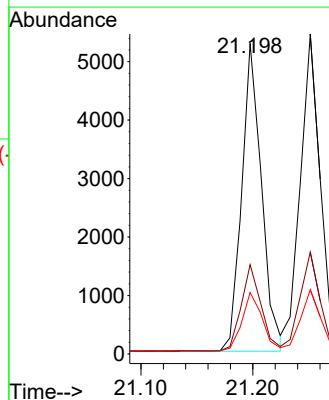
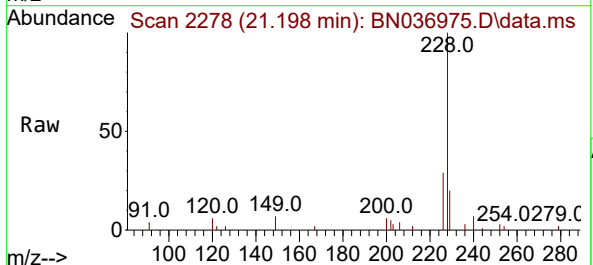
Instrument :
BNA_N
ClientSampleId :
GB2BMS

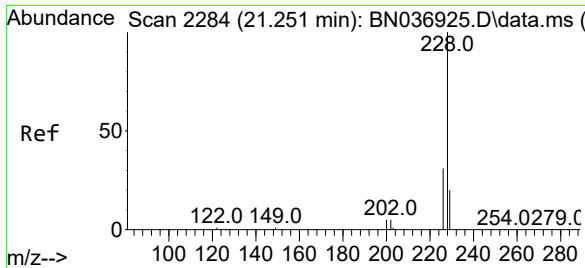
Tgt Ion:244 Resp: 2092
Ion Ratio Lower Upper
244 100
212 12.5 9.6 14.4
122 18.2 12.7 19.1



#32
Benzo(a)anthracene
Concen: 0.393 ng
RT: 21.198 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion:228 Resp: 6467
Ion Ratio Lower Upper
228 100
226 28.7 22.2 33.4
229 19.8 16.4 24.6





#33

Chrysene

Concen: 0.397 ng

RT: 21.251 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036975.D

Acq: 08 May 2025 16:16

Instrument :

BNA_N

ClientSampleId :

GB2BMS

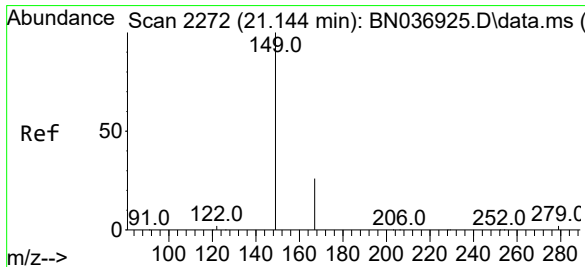
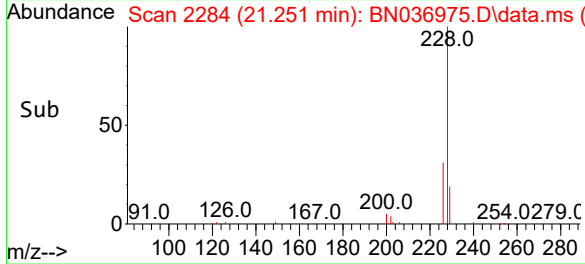
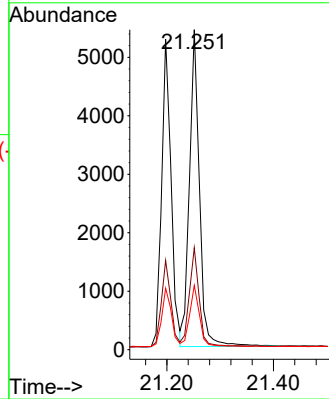
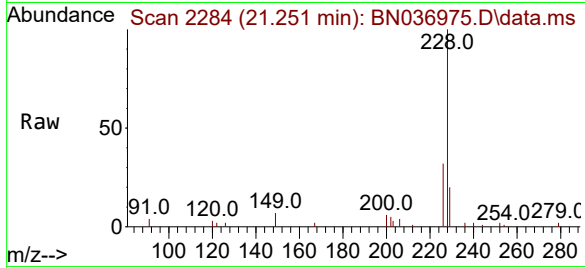
Tgt Ion:228 Resp: 7045

Ion Ratio Lower Upper

228 100

226 31.8 25.5 38.3

229 20.1 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.737 ng

RT: 21.144 min Scan# 2272

Delta R.T. -0.000 min

Lab File: BN036975.D

Acq: 08 May 2025 16:16

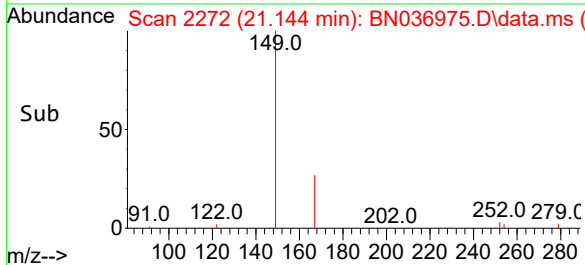
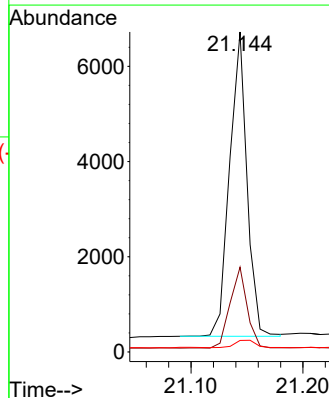
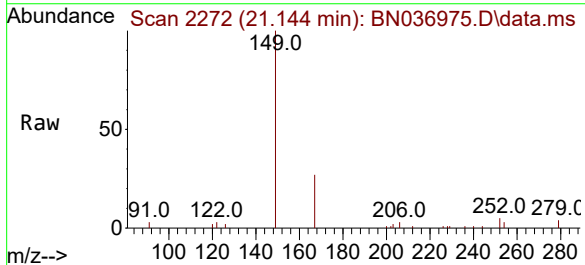
Tgt Ion:149 Resp: 6904

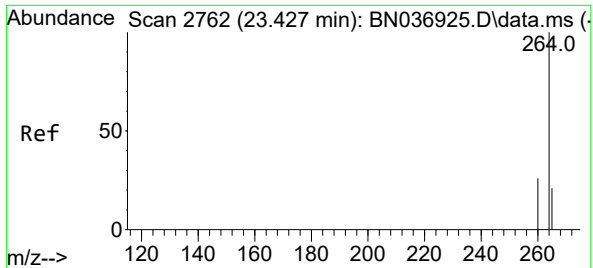
Ion Ratio Lower Upper

149 100

167 26.0 21.0 31.6

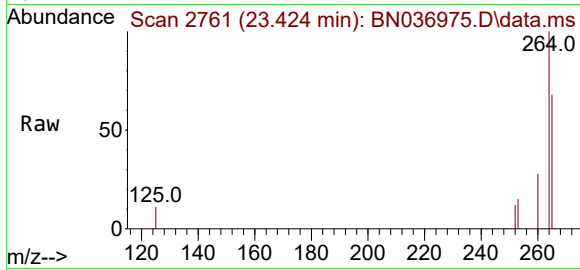
279 2.9 2.7 4.1



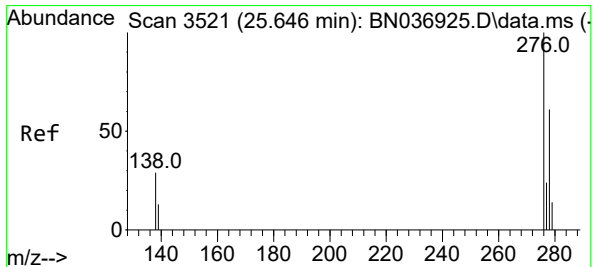
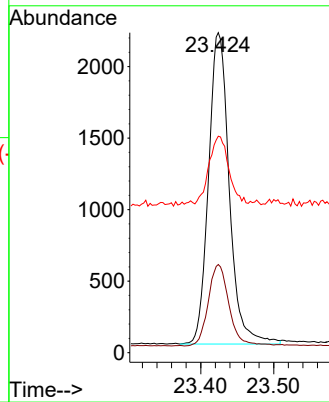
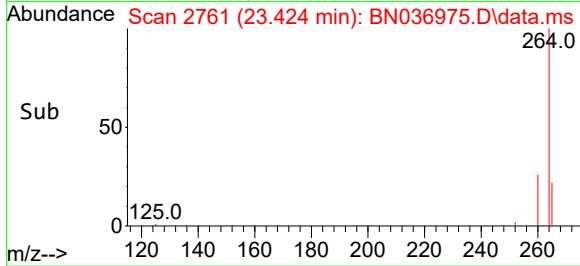


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.424 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Instrument :
BNA_N
ClientSampleId :
GB2BMS

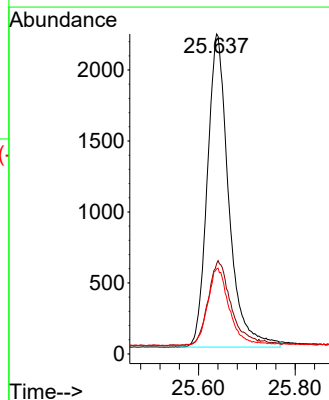
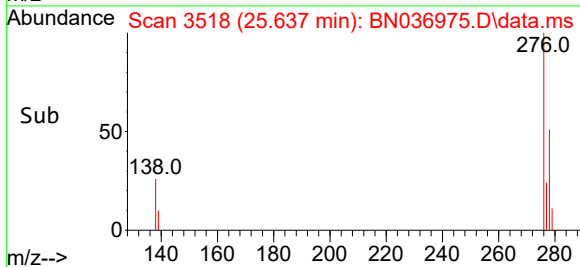
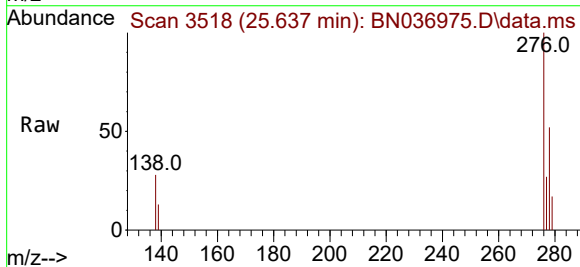


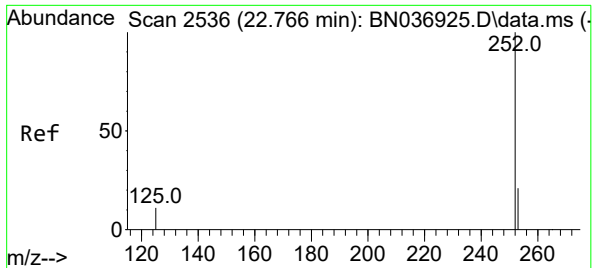
Tgt Ion:264 Resp: 4298
Ion Ratio Lower Upper
264 100
260 27.5 22.2 33.2
265 67.6 65.8 98.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.386 ng
RT: 25.637 min Scan# 3518
Delta R.T. -0.009 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion:276 Resp: 6779
Ion Ratio Lower Upper
276 100
138 28.5 23.0 34.6
277 24.6 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.362 ng

RT: 22.760 min Scan# 2536

Delta R.T. -0.006 min

Lab File: BN036975.D

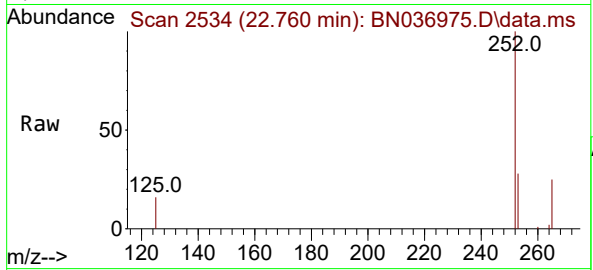
Acq: 08 May 2025 16:16

Instrument :

BNA_N

ClientSampleId :

GB2BMS



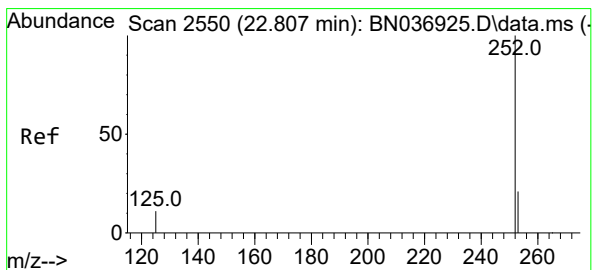
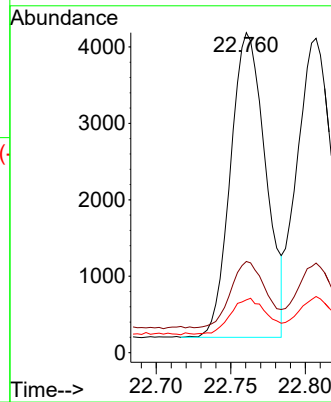
Tgt Ion:252 Resp: 6538

Ion	Ratio	Lower	Upper

252	100		

253	28.5	22.1	33.1

125	16.5	14.2	21.2



#38

Benzo(k)fluoranthene

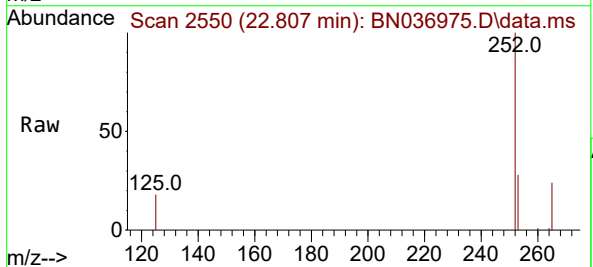
Concen: 0.373 ng

RT: 22.807 min Scan# 2550

Delta R.T. -0.000 min

Lab File: BN036975.D

Acq: 08 May 2025 16:16



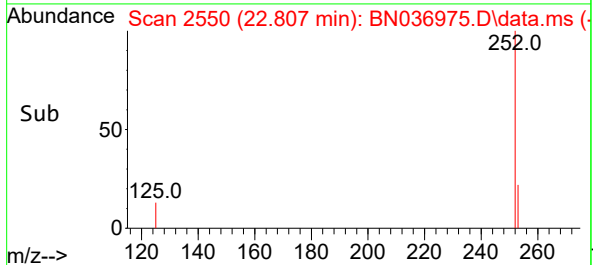
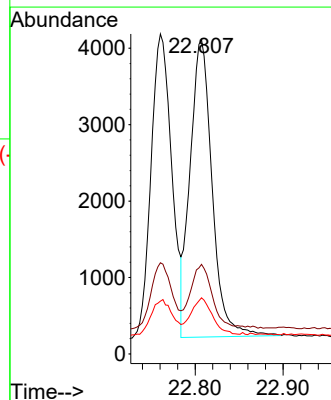
Tgt Ion:252 Resp: 6781

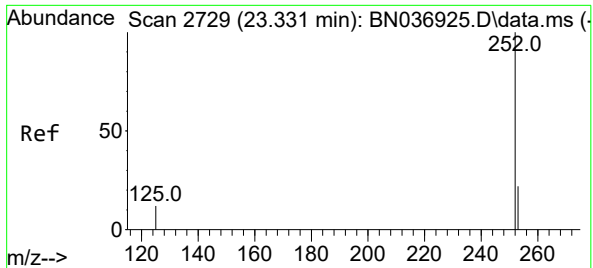
Ion	Ratio	Lower	Upper

252	100		

253	28.5	22.8	34.2

125	17.9	14.2	21.2





#39

Benzo(a)pyrene

Concen: 0.391 ng

RT: 23.328 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036975.D

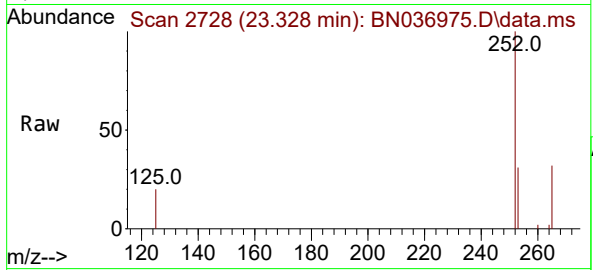
Acq: 08 May 2025 16:16

Instrument :

BNA_N

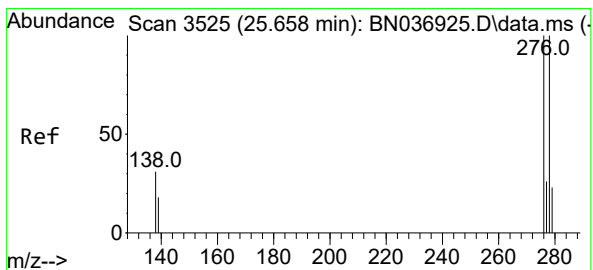
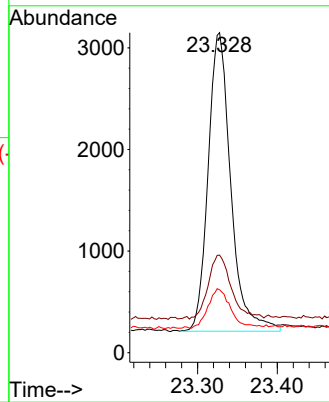
ClientSampleId :

GB2BMS



Tgt Ion:252 Resp: 5810

Ion	Ratio	Lower	Upper
252	100		
253	30.5	25.9	38.9
125	19.7	17.4	26.0



#40

Dibenzo(a,h)anthracene

Concen: 0.373 ng

RT: 25.655 min Scan# 3524

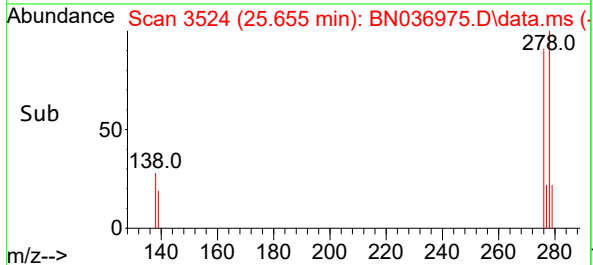
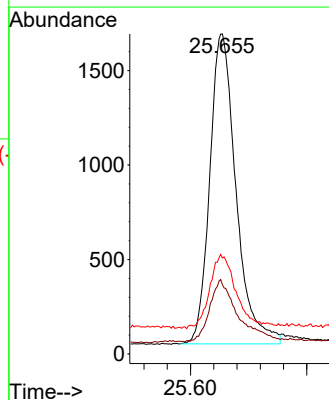
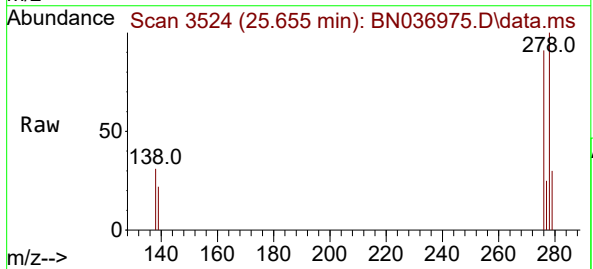
Delta R.T. -0.003 min

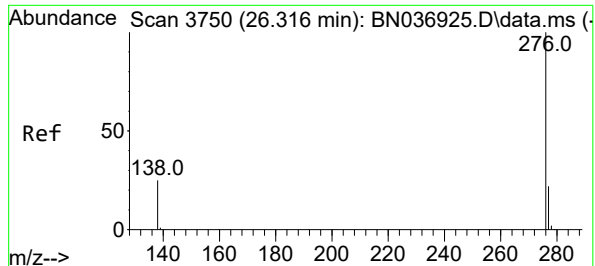
Lab File: BN036975.D

Acq: 08 May 2025 16:16

Tgt Ion:278 Resp: 5158

Ion	Ratio	Lower	Upper
278	100		
139	21.6	17.4	26.2
279	30.0	24.9	37.3





#41

Benzo(g,h,i)perylene

Concen: 0.348 ng

RT: 26.318 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN036975.D

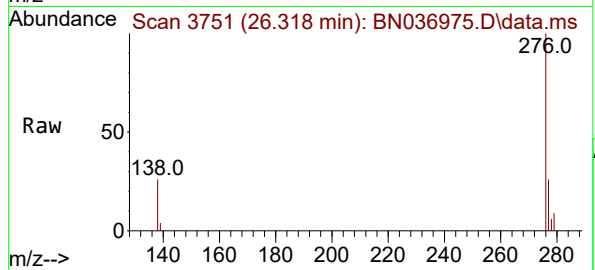
Acq: 08 May 2025 16:16

Instrument :

BNA_N

ClientSampleId :

GB2BMS



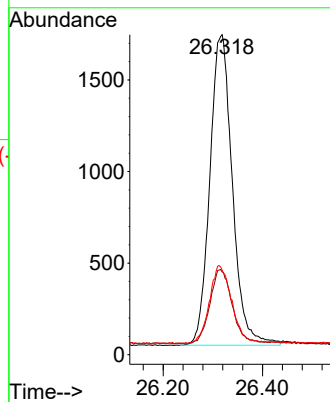
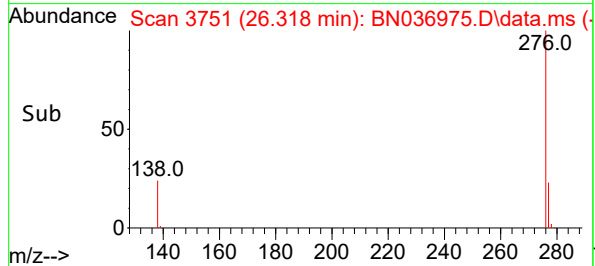
Tgt Ion:276 Resp: 5341

Ion Ratio Lower Upper

276 100

277 25.9 20.2 30.2

138 26.4 21.9 32.9



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	05/01/25
Project:	NJ Soil PT	Date Received:	05/01/25
Client Sample ID:	GB2BMSD	SDG No.:	Q1872
Lab Sample ID:	Q1939-04MSD	Matrix:	SOIL
Analytical Method:	SW8270ESIM	% Solid:	85.4
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036976.D	1	05/08/25 10:03	05/08/25 16:53	PB167915

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1912-24-9	Atrazine	15.9		1.30	3.90	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.23		17 - 161	56%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.23		23 - 138	58%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.22		33 - 121	55%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.19		32 - 121	49%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.20		21 - 130	50%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1750	7.625			
1146-65-2	Naphthalene-d8	4440	10.404			
15067-26-2	Acenaphthene-d10	2460	14.277			
1517-22-2	Phenanthrene-d10	5140	17.021			
1719-03-5	Chrysene-d12	4530	21.215			
1520-96-3	Perylene-d12	4360	23.421			

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\BN050825\
 Data File : BN036976.D
 Acq On : 08 May 2025 16:53
 Operator : RC/JU
 Sample : Q1939-04MSD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 GB2BMSD

Quant Time: May 08 18:27:44 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 2025
 Response via : Initial Calibration

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

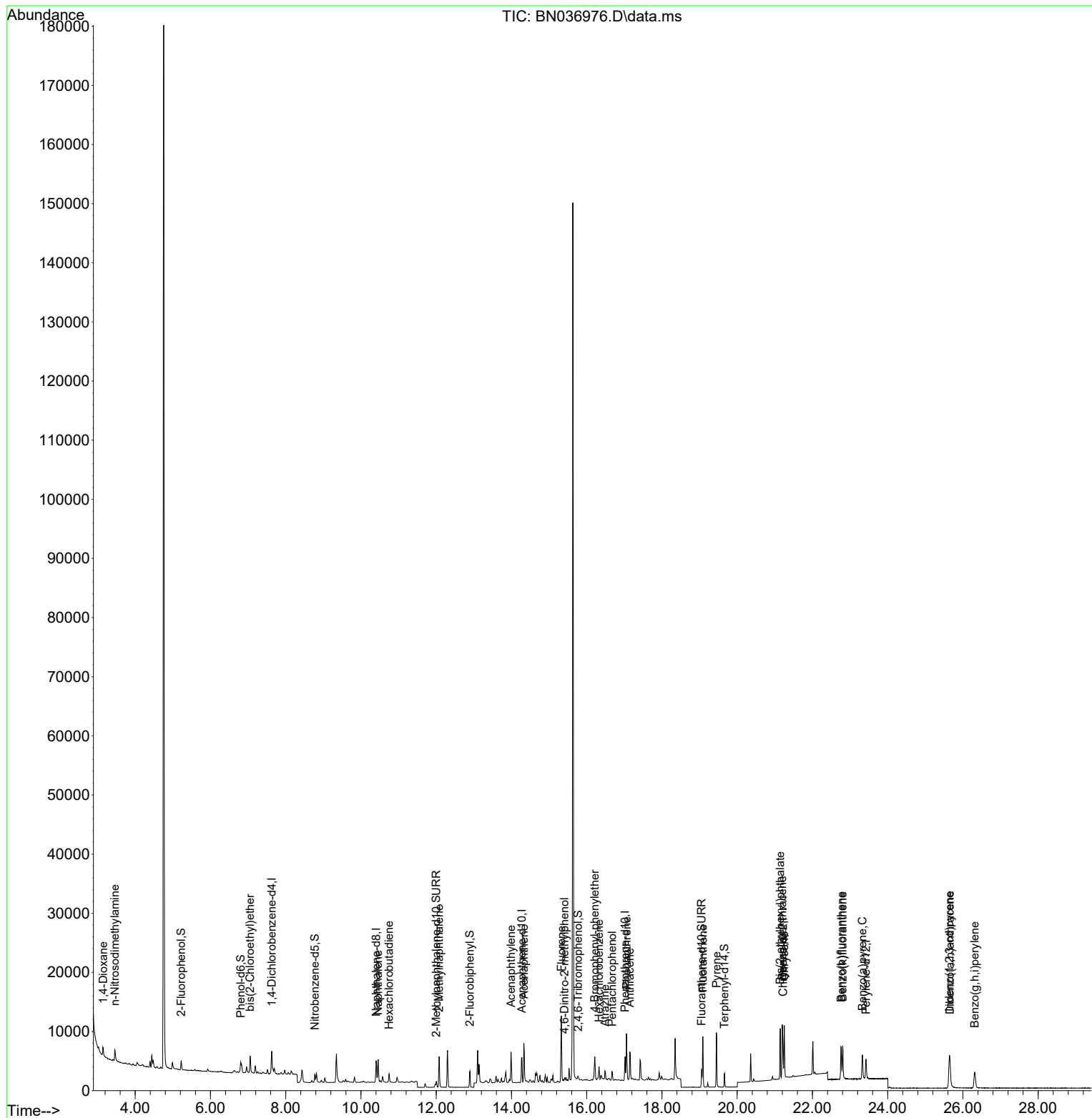
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.625	152	1746	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	4442	0.400	ng	#-0.01
13) Acenaphthene-d10	14.277	164	2456	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	5135	0.400	ng	0.00
29) Chrysene-d12	21.215	240	4532	0.400	ng	# 0.00
35) Perylene-d12	23.421	264	4358	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	1050	0.235	ng	0.00
5) Phenol-d6	6.802	99	1326	0.241	ng	0.00
8) Nitrobenzene-d5	8.771	82	1026	0.221	ng	-0.01
11) 2-Methylnaphthalene-d10	12.001	152	1396	0.225	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	262	0.239	ng	0.00
15) 2-Fluorobiphenyl	12.893	172	2299	0.194	ng	0.00
27) Fluoranthene-d10	19.054	212	3110	0.234	ng	0.00
31) Terphenyl-d14	19.663	244	2125	0.199	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.148	88	751	0.345	ng	# 33
3) n-Nitrosodimethylamine	3.458	42	1657	0.392	ng	# 97
6) bis(2-Chloroethyl)ether	7.055	93	1962	0.385	ng	99
9) Naphthalene	10.458	128	4811	0.372	ng	98
10) Hexachlorobutadiene	10.746	225	1062	0.380	ng	# 97
12) 2-Methylnaphthalene	12.077	142	3488	0.417	ng	99
16) Acenaphthylene	13.989	152	4666	0.389	ng	98
17) Acenaphthene	14.331	154	3061	0.388	ng	99
18) Fluorene	15.325	166	4121	0.400	ng	# 98
20) 4,6-Dinitro-2-methylph...	15.410	198	412	0.303	ng	# 72
21) 4-Bromophenyl-phenylether	16.214	248	1285	0.375	ng	# 66
22) Hexachlorobenzene	16.326	284	1291	0.344	ng	95
23) Atrazine	16.487	200	1132	0.409	ng	# 92
24) Pentachlorophenol	16.673	266	635	0.315	ng	98
25) Phenanthrene	17.058	178	7596	0.448	ng	99
26) Anthracene	17.145	178	5847	0.381	ng	99
28) Fluoranthene	19.086	202	7425	0.391	ng	99
30) Pyrene	19.449	202	7811	0.358	ng	99
32) Benzo(a)anthracene	21.197	228	6578	0.394	ng	99
33) Chrysene	21.251	228	7149	0.397	ng	99
34) Bis(2-ethylhexyl)phtha...	21.144	149	7041	0.742	ng	99
36) Indeno(1,2,3-cd)pyrene	25.640	276	6746	0.379	ng	99
37) Benzo(b)fluoranthene	22.760	252	6681	0.365	ng	98
38) Benzo(k)fluoranthene	22.804	252	6822	0.370	ng	99
39) Benzo(a)pyrene	23.328	252	5908	0.392	ng	98
40) Dibenzo(a,h)anthracene	25.655	278	5327	0.380	ng	98
41) Benzo(g,h,i)perylene	26.313	276	5396	0.347	ng	99

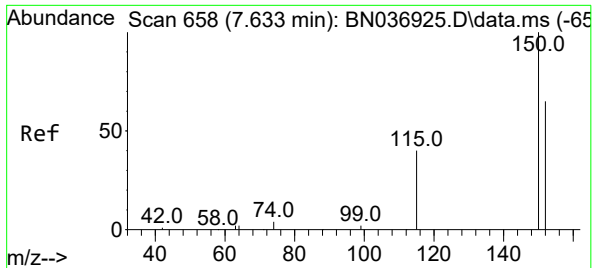
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050825\
Data File : BN036976.D
Acq On : 08 May 2025 16:53
Operator : RC/JU
Sample : Q1939-04MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
GB2BMSD

Quant Time: May 08 18:27:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

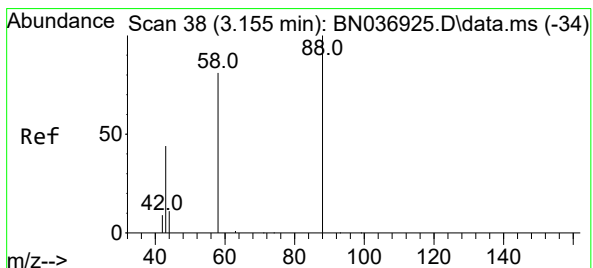
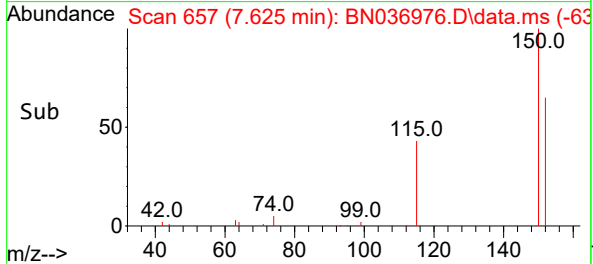
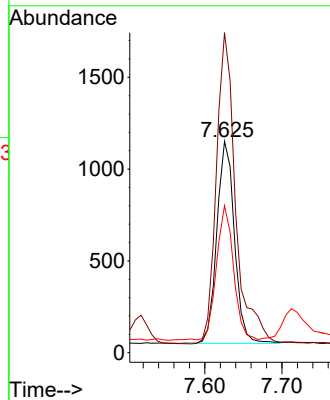
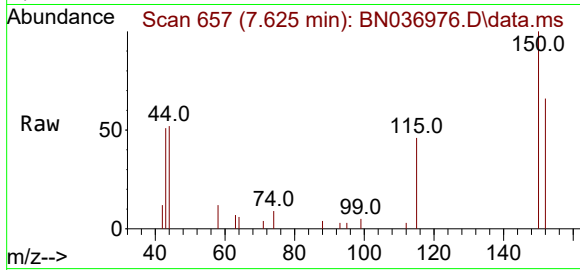




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.625 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

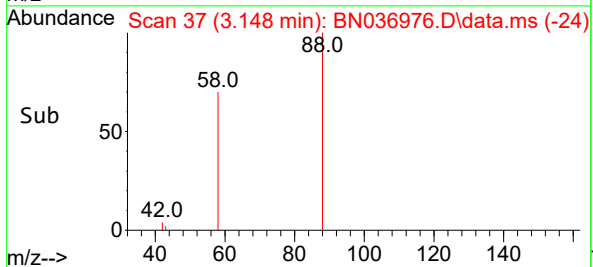
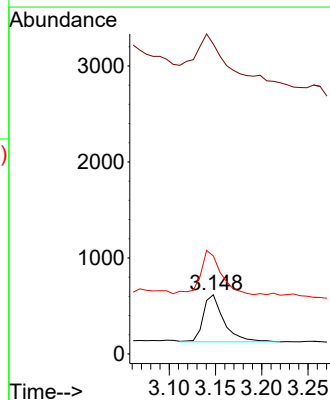
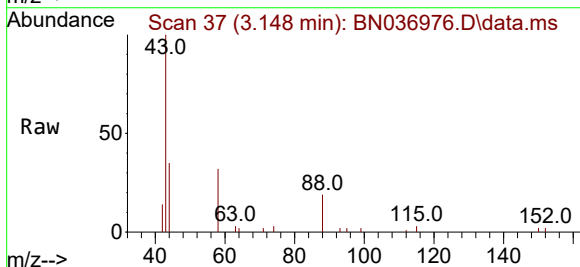
Instrument :
BNA_N
ClientSampleId :
GB2BMSD

Tgt Ion:152 Resp: 1746
Ion Ratio Lower Upper
152 100
150 151.4 121.1 181.7
115 69.6 51.8 77.6

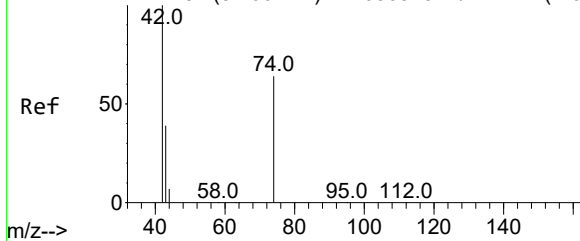


#2
1,4-Dioxane
Concen: 0.345 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

Tgt Ion: 88 Resp: 751
Ion Ratio Lower Upper
88 100
43 154.7 37.9 56.9#
58 94.0 65.8 98.6



Abundance Scan 81 (3.466 min): BN036925.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 0.392 ng

RT: 3.458 min Scan# 80

Delta R.T. -0.007 min

Lab File: BN036976.D

Acq: 08 May 2025 16:53

Instrument :

BNA_N

ClientSampleId :

GB2BMSD

Tgt Ion: 42 Resp: 1657

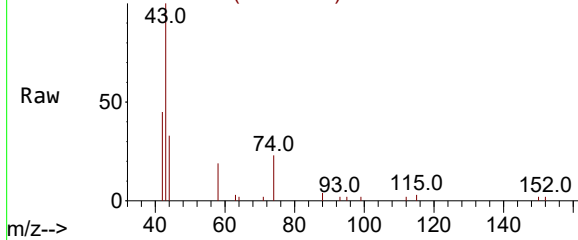
Ion Ratio Lower Upper

42 100

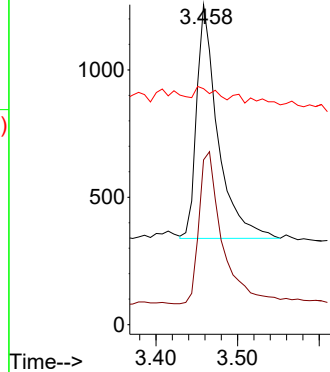
74 73.6 59.9 89.9

44 4.9 7.5 11.3#

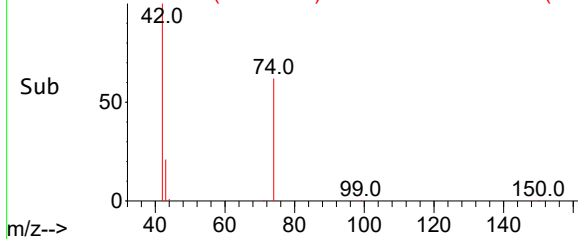
Abundance Scan 80 (3.458 min): BN036976.D\data.ms



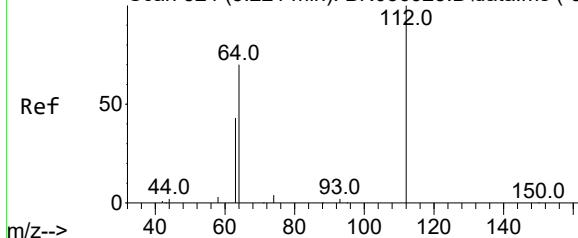
Abundance



Abundance Scan 80 (3.458 min): BN036976.D\data.ms (-60)



Abundance Scan 324 (5.221 min): BN036925.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.235 ng

RT: 5.220 min Scan# 324

Delta R.T. -0.000 min

Lab File: BN036976.D

Acq: 08 May 2025 16:53

Tgt Ion: 112 Resp: 1050

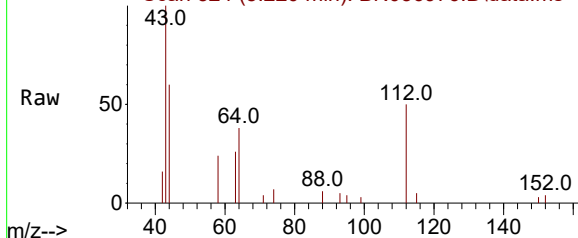
Ion Ratio Lower Upper

112 100

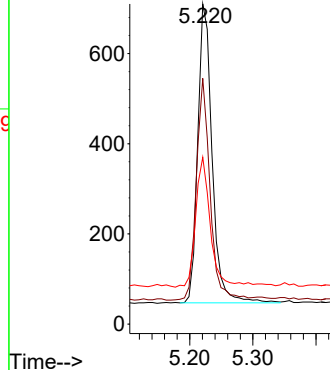
64 71.0 55.7 83.5

63 46.0 33.9 50.9

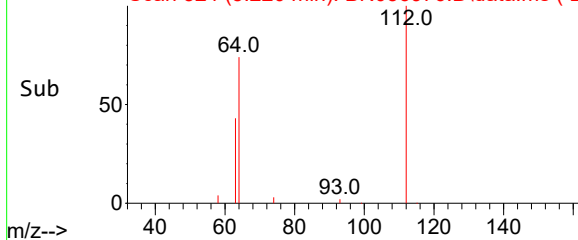
Abundance Scan 324 (5.220 min): BN036976.D\data.ms

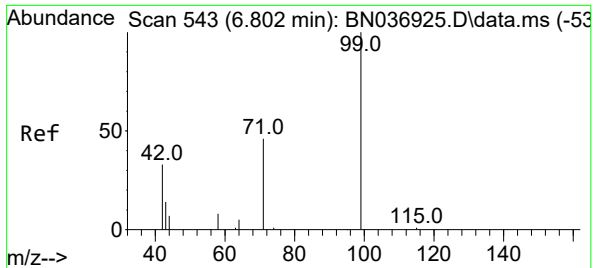


Abundance



Abundance Scan 324 (5.220 min): BN036976.D\data.ms (-29)

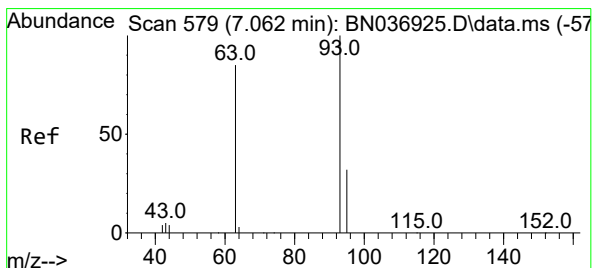
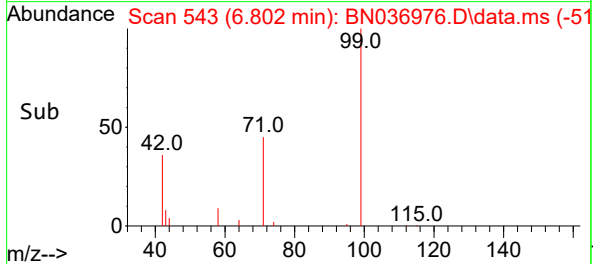
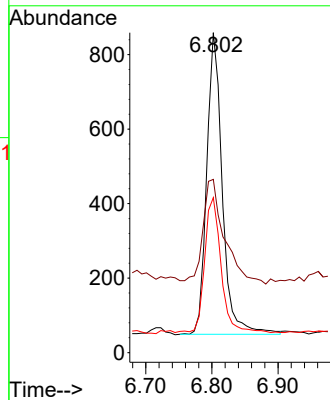
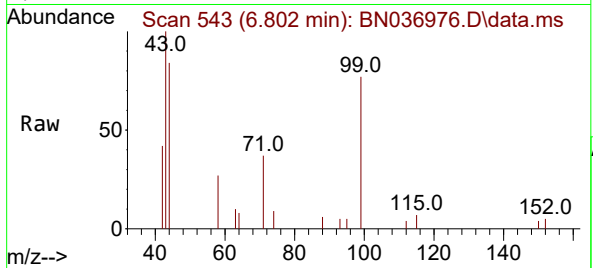




#5
Phenol-d6
Concen: 0.241 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.000 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

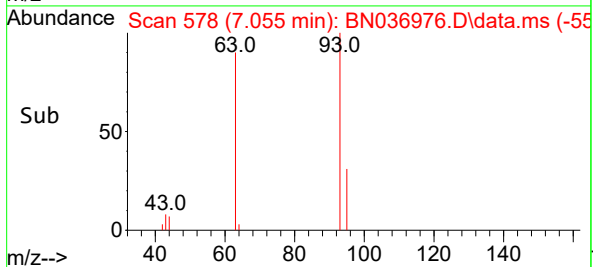
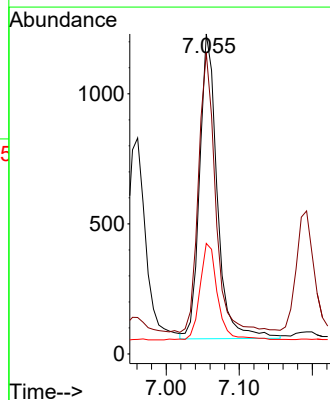
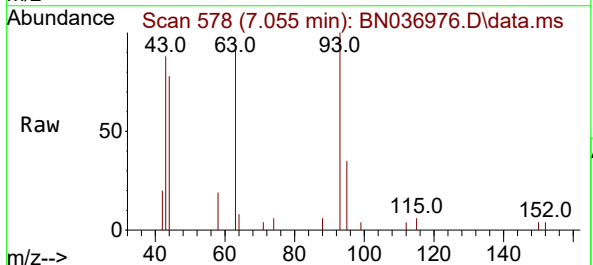
Instrument :
BNA_N
ClientSampleId :
GB2BMDS

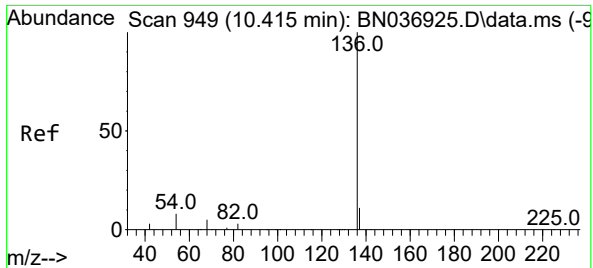
Tgt Ion: 99 Resp: 1326
Ion Ratio Lower Upper
99 100
42 48.1 29.6 44.4#
71 47.5 36.0 54.0



#6
bis(2-Chloroethyl)ether
Concen: 0.385 ng
RT: 7.055 min Scan# 578
Delta R.T. -0.007 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

Tgt Ion: 93 Resp: 1962
Ion Ratio Lower Upper
93 100
63 88.0 69.0 103.6
95 31.7 25.4 38.0

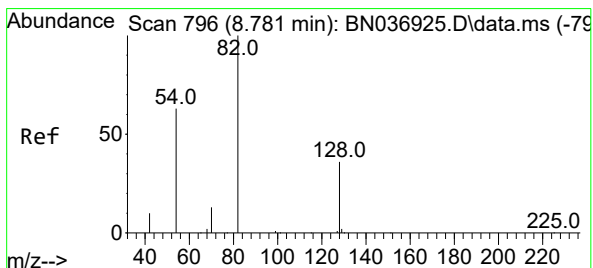
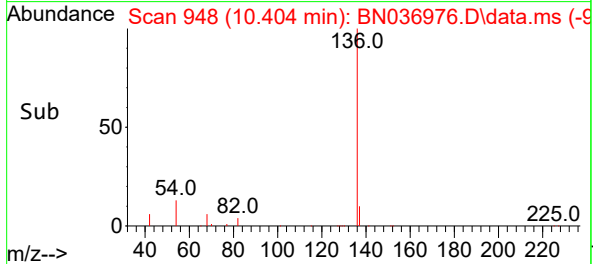
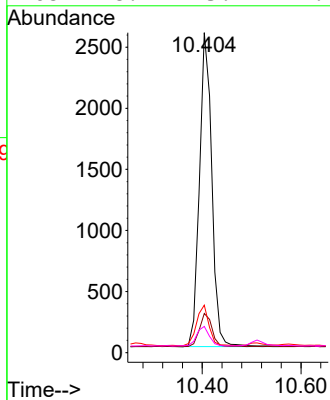
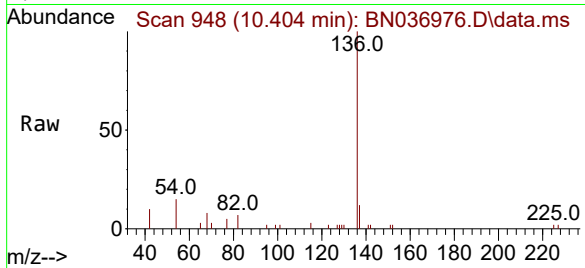




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

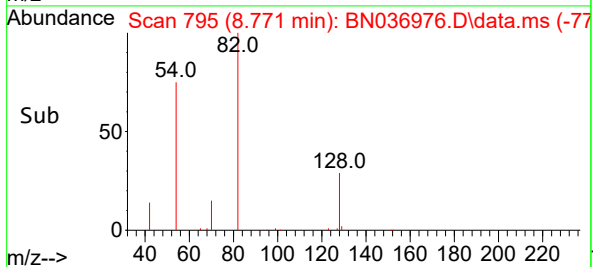
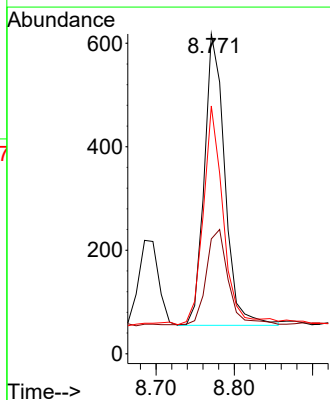
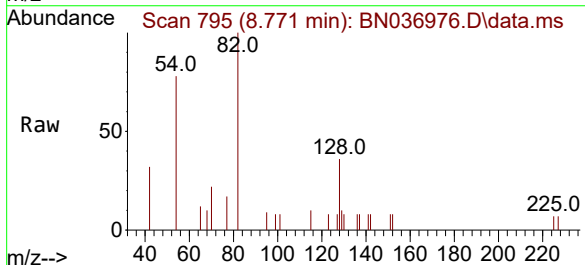
Instrument :
BNA_N
ClientSampleId :
GB2BMDS

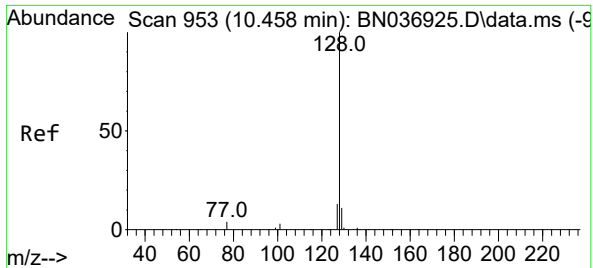
Tgt Ion:136 Resp: 4442
Ion Ratio Lower Upper
136 100
137 12.2 9.7 14.5
54 14.8 8.0 12.0#
68 8.2 5.1 7.7#



#8
Nitrobenzene-d5
Concen: 0.221 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.011 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

Tgt Ion: 82 Resp: 1026
Ion Ratio Lower Upper
82 100
128 35.9 30.7 46.1
54 77.5 52.1 78.1

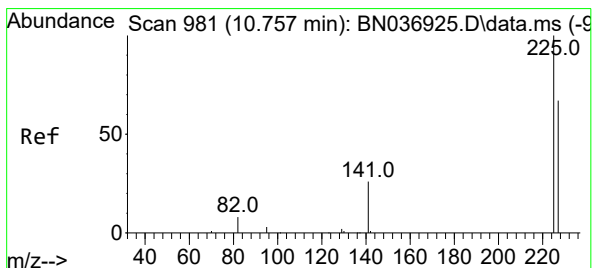
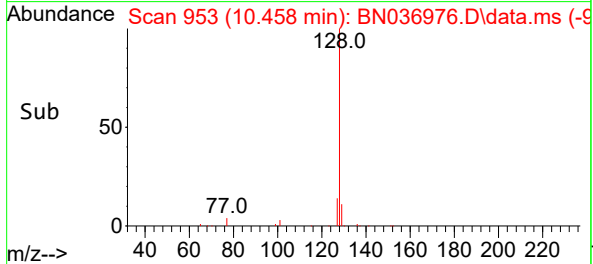
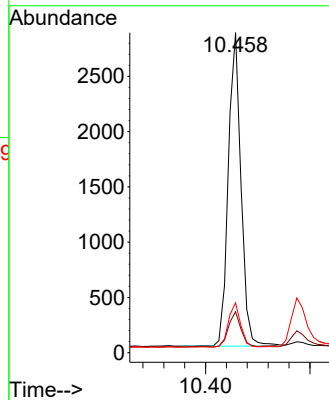
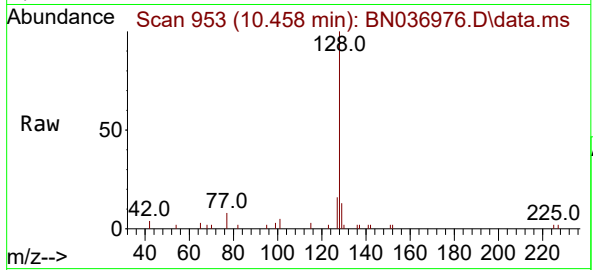




#9
Naphthalene
Concen: 0.372 ng
RT: 10.458 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

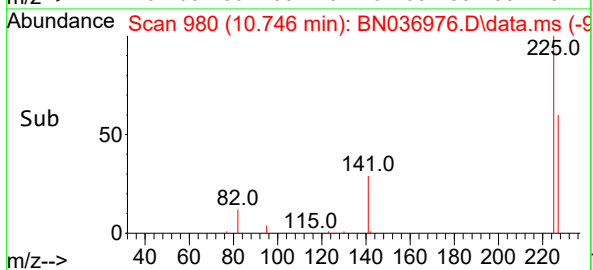
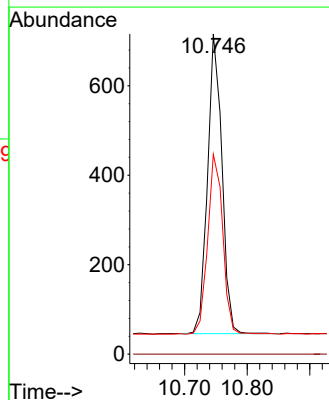
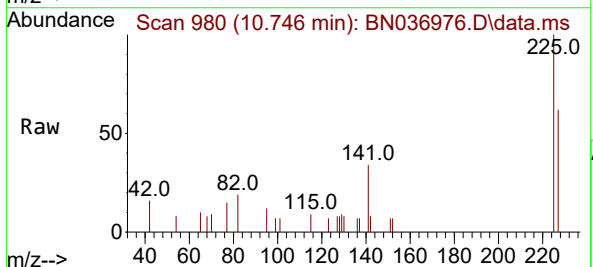
Instrument :
BNA_N
ClientSampleId :
GB2BMSD

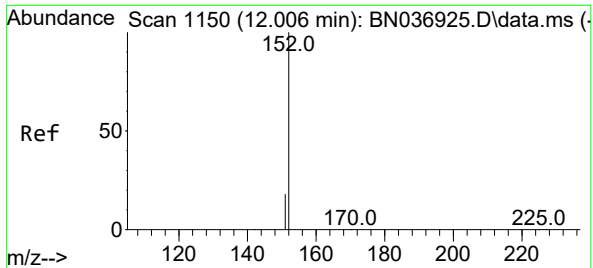
Tgt Ion:128 Resp: 4811
Ion Ratio Lower Upper
128 100
129 12.8 9.8 14.6
127 15.5 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.380 ng
RT: 10.746 min Scan# 980
Delta R.T. -0.011 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

Tgt Ion:225 Resp: 1062
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.0 52.2 78.4

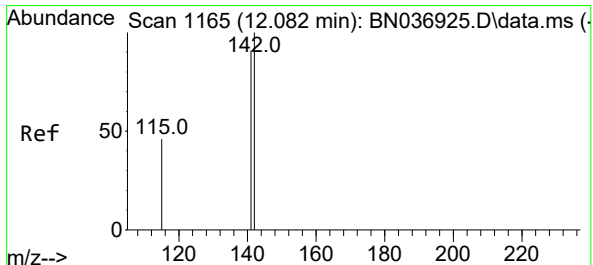
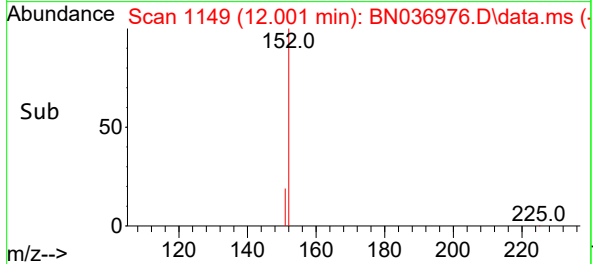
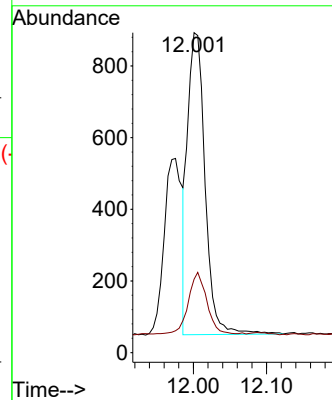
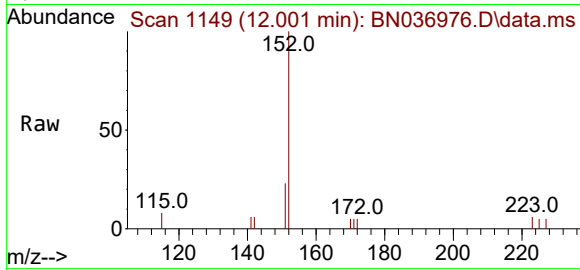




#11
2-Methylnaphthalene-d10
Concen: 0.225 ng
RT: 12.001 min Scan# 1149
Delta R.T. -0.005 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

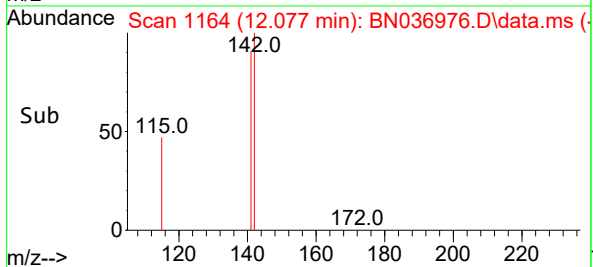
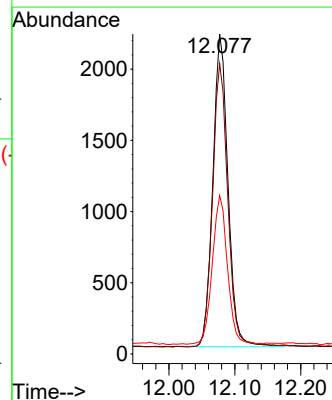
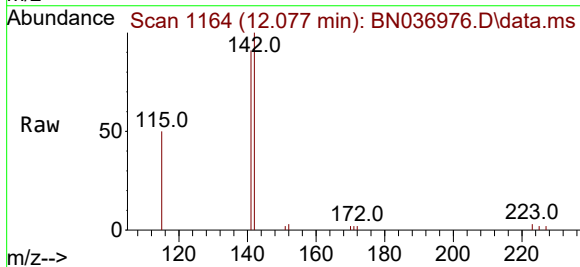
Instrument :
BNA_N
ClientSampleId :
GB2BMSD

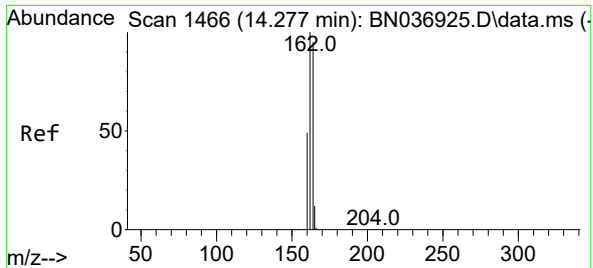
Tgt Ion:152 Resp: 1396
Ion Ratio Lower Upper
152 100
151 21.7 16.9 25.3



#12
2-Methylnaphthalene
Concen: 0.417 ng
RT: 12.077 min Scan# 1164
Delta R.T. -0.005 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

Tgt Ion:142 Resp: 3488
Ion Ratio Lower Upper
142 100
141 90.7 72.8 109.2
115 49.6 38.2 57.4

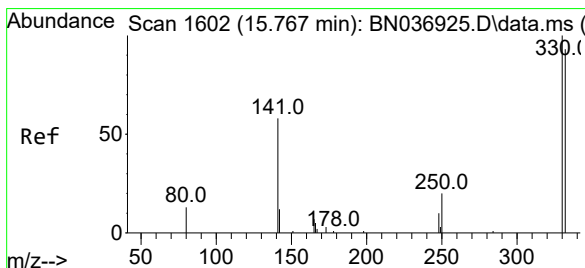
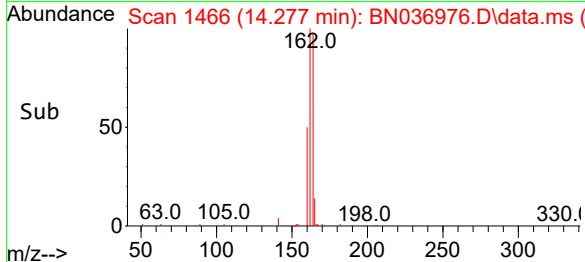
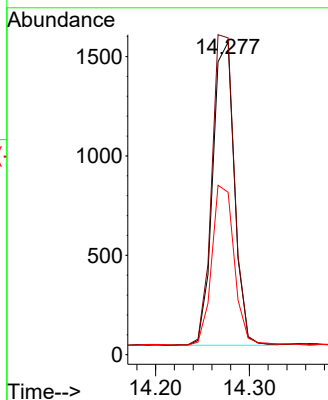
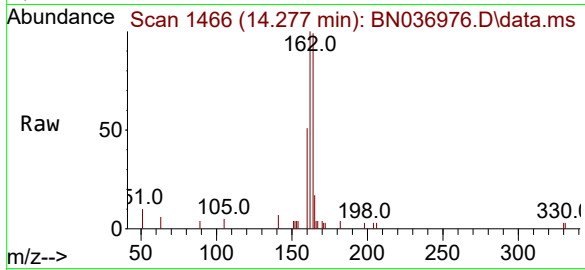




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

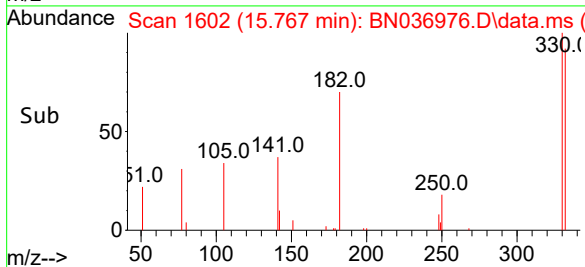
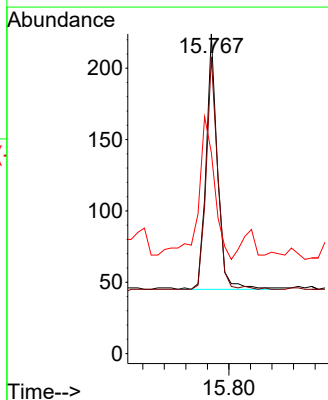
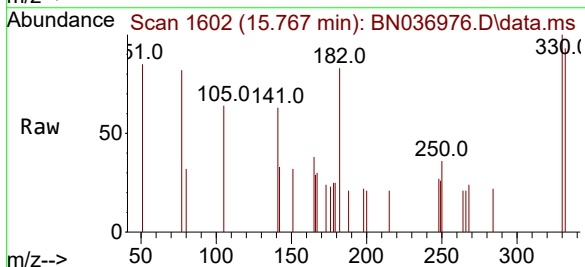
Instrument :
BNA_N
ClientSampleId :
GB2BMSD

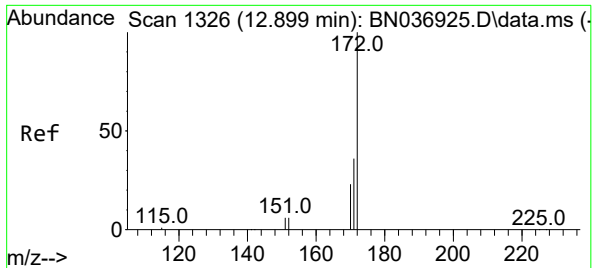
Tgt Ion:164 Resp: 2456
Ion Ratio Lower Upper
164 100
162 101.4 83.8 125.8
160 52.0 42.0 63.0



#14
2,4,6-Tribromophenol
Concen: 0.239 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

Tgt Ion:330 Resp: 262
Ion Ratio Lower Upper
330 100
332 91.6 76.3 114.5
141 82.1 45.4 68.2#

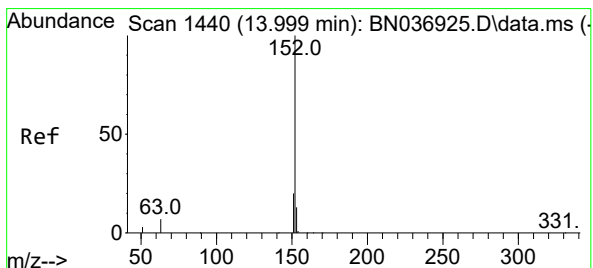
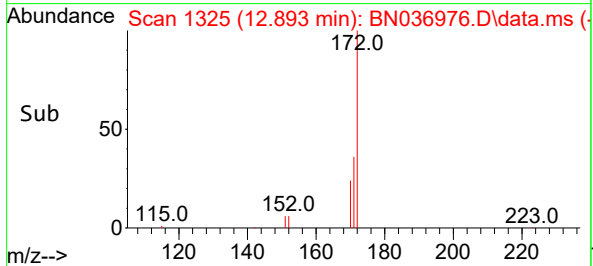
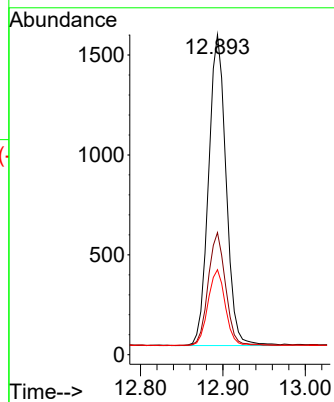
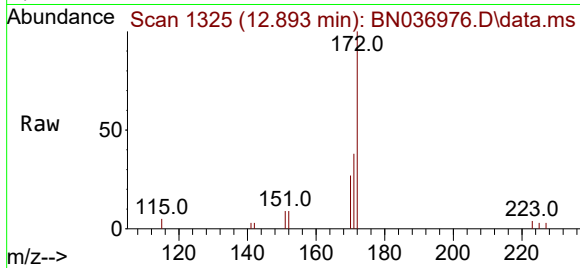




#15
2-Fluorobiphenyl
Concen: 0.194 ng
RT: 12.893 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

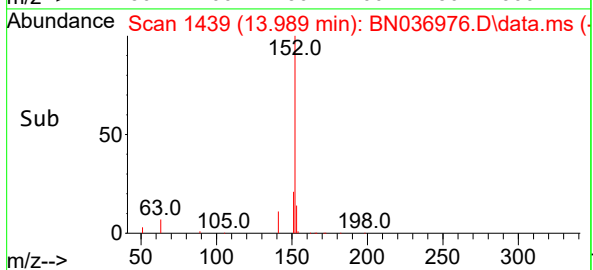
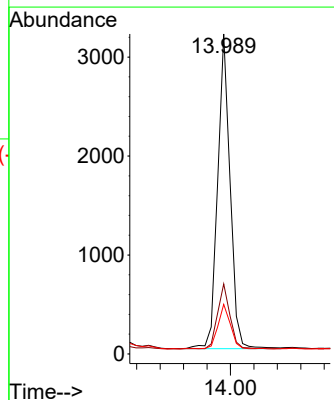
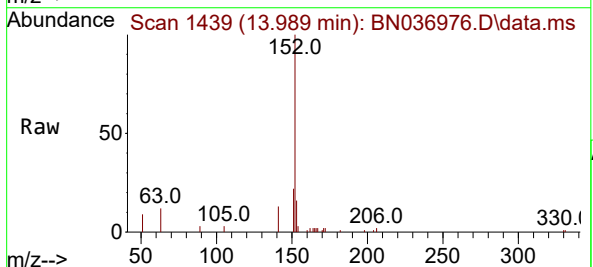
Instrument :
BNA_N
ClientSampleId :
GB2BMSD

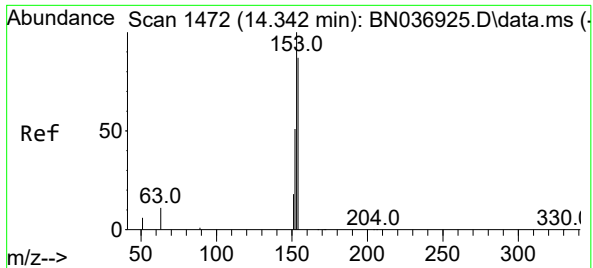
Tgt Ion	Ratio	Lower	Upper
172	100		
171	38.1	29.4	44.0
170	26.5	19.4	29.0



#16
Acenaphthylene
Concen: 0.389 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.0	24.0
153	14.4	10.2	15.2

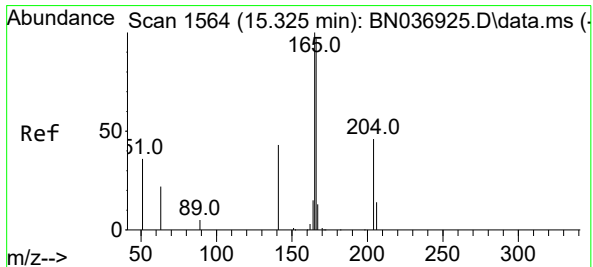
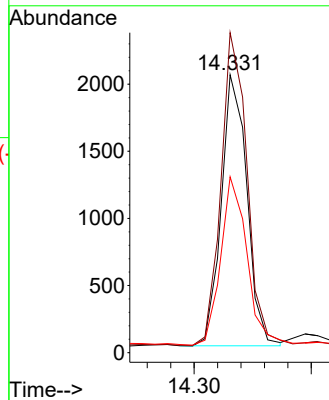
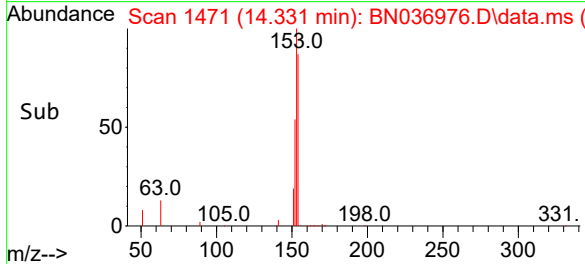
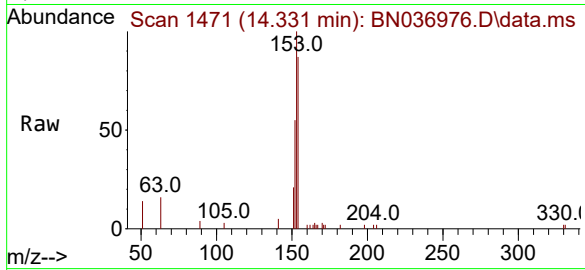




#17
Acenaphthene
Concen: 0.388 ng
RT: 14.331 min Scan# 1471
Delta R.T. -0.011 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

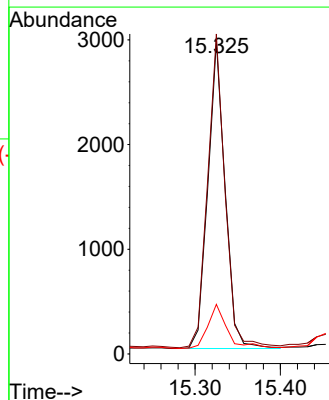
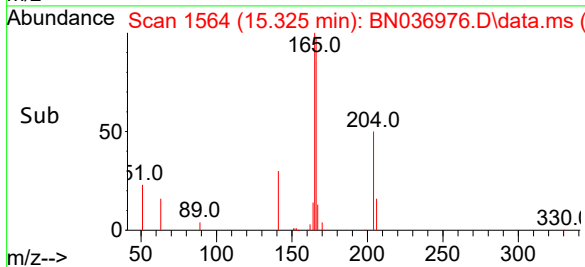
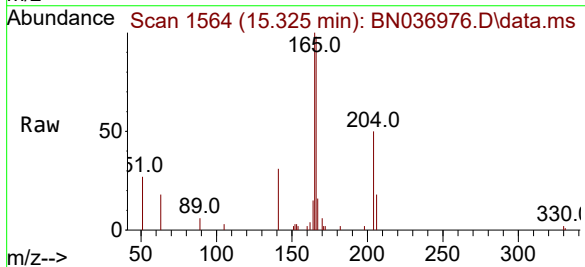
Instrument :
BNA_N
ClientSampleId :
GB2BMDS

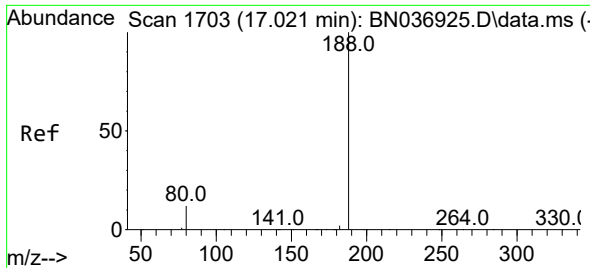
Tgt Ion:154 Resp: 3061
Ion Ratio Lower Upper
154 100
153 117.0 93.4 140.2
152 64.8 49.5 74.3



#18
Fluorene
Concen: 0.400 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

Tgt Ion:166 Resp: 4121
Ion Ratio Lower Upper
166 100
165 102.6 80.8 121.2
167 16.4 10.8 16.2#

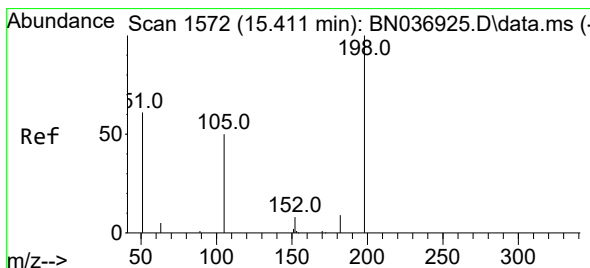
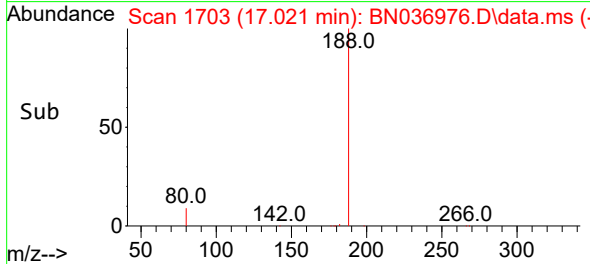
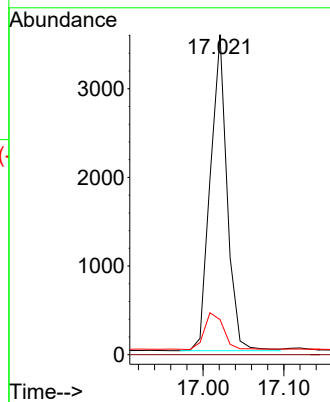
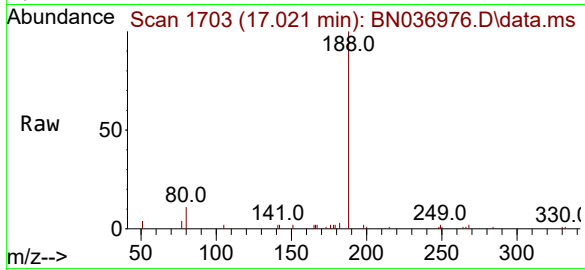




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

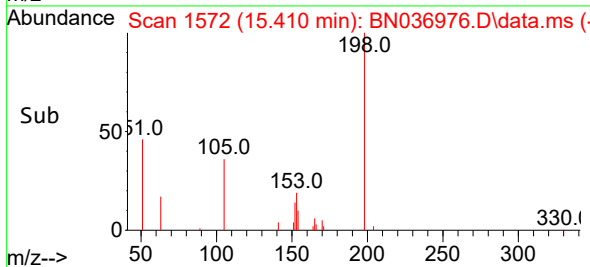
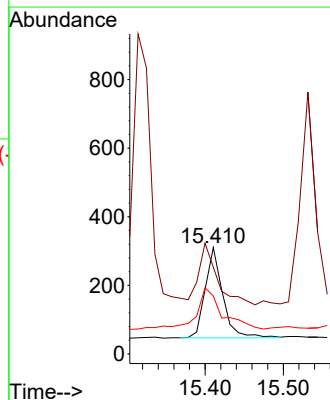
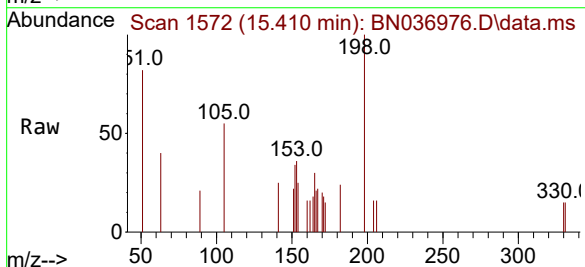
Instrument :
BNA_N
ClientSampleId :
GB2BMDS

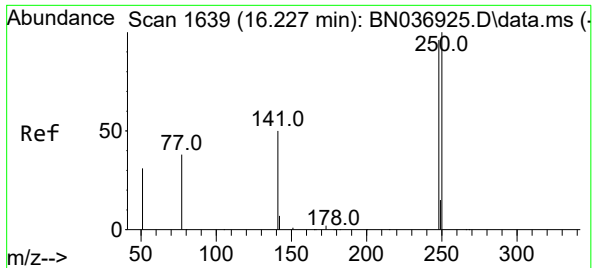
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.0	10.7	16.1



#20
4,6-Dinitro-2-methylphenol
Concen: 0.303 ng
RT: 15.410 min Scan# 1572
Delta R.T. -0.001 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

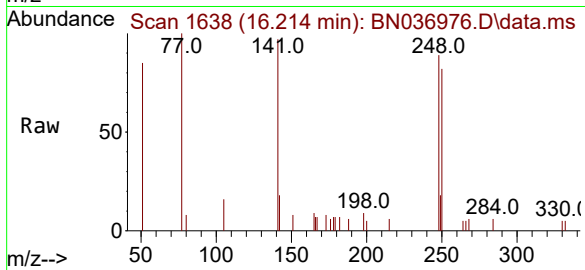
Tgt Ion	Ratio	Lower	Upper
198	100		
51	81.6	97.9	146.9#
105	54.5	50.0	75.0



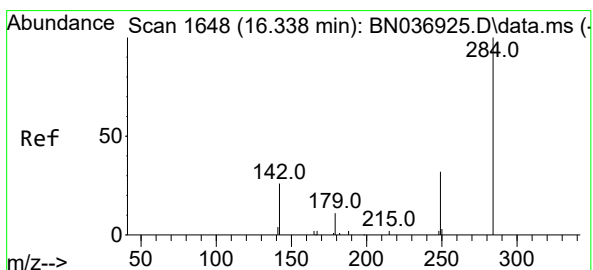
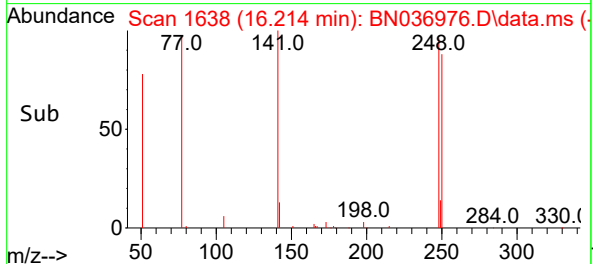
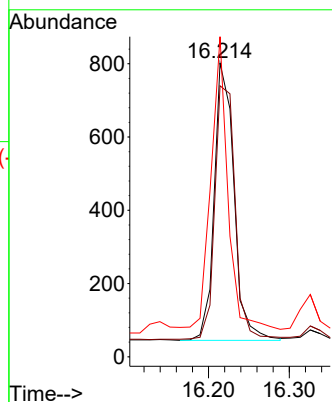


#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 16.214 min Scan# 1638
Delta R.T. -0.013 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

Instrument :
BNA_N
ClientSampleId :
GB2BMSD

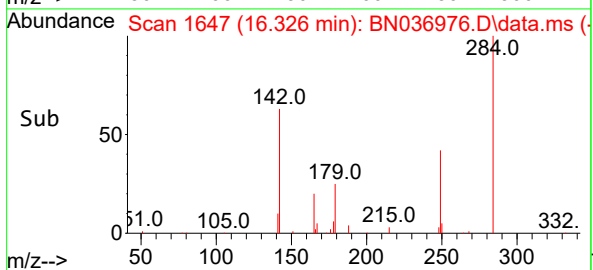
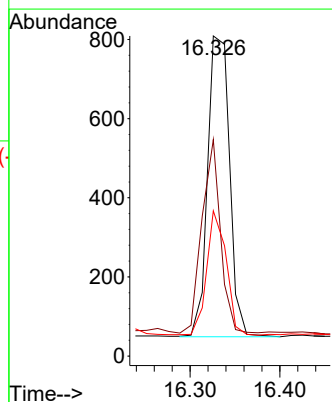
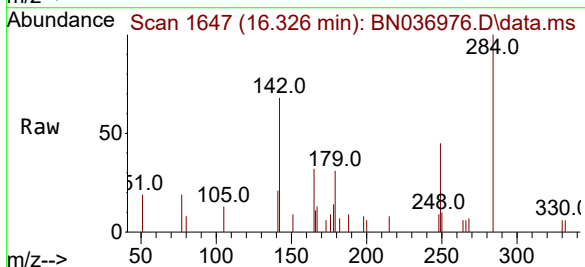


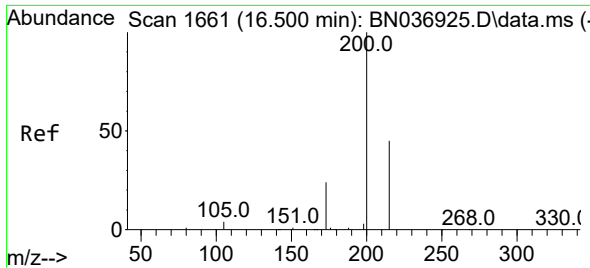
Tgt Ion:248 Resp: 1285
Ion Ratio Lower Upper
248 100
250 92.3 83.7 125.5
141 109.0 43.8 65.8#



#22
Hexachlorobenzene
Concen: 0.344 ng
RT: 16.326 min Scan# 1647
Delta R.T. -0.013 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

Tgt Ion:284 Resp: 1291
Ion Ratio Lower Upper
284 100
142 54.8 40.0 60.0
249 36.9 28.2 42.2

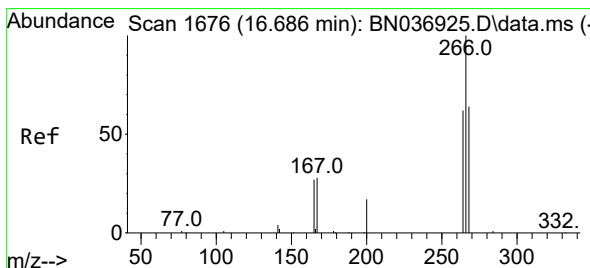
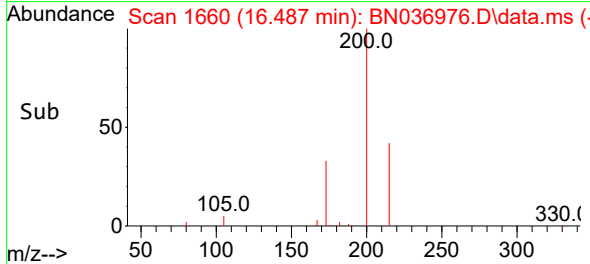
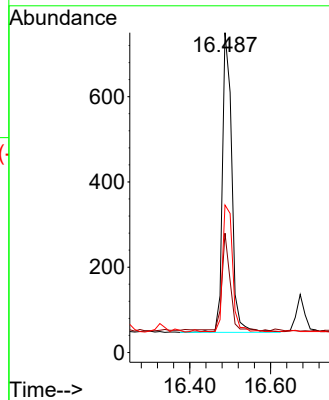
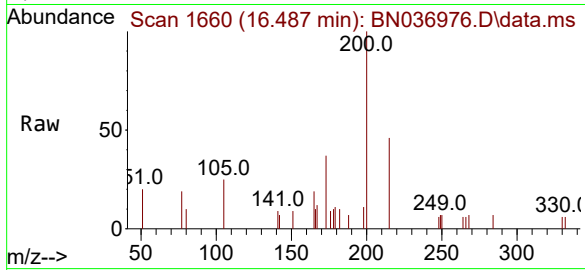




#23
Atrazine
Concen: 0.409 ng
RT: 16.487 min Scan# 1660
Delta R.T. -0.013 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

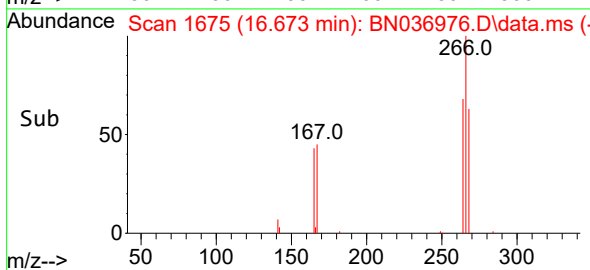
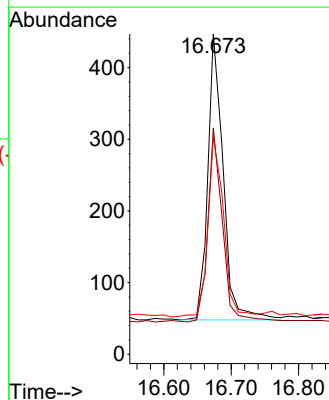
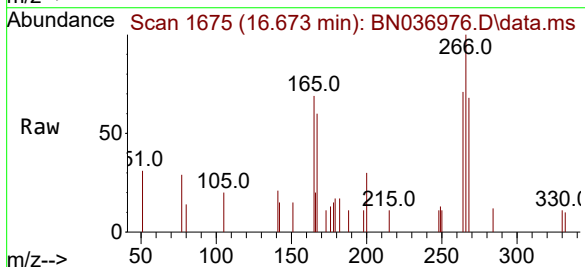
Instrument :
BNA_N
ClientSampleId :
GB2BMSD

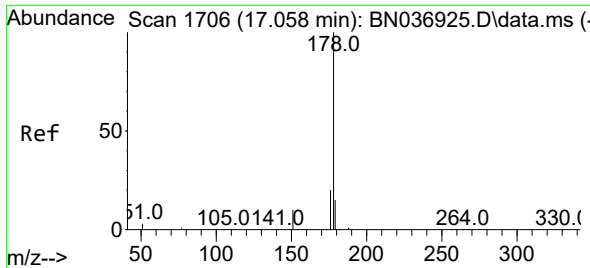
Tgt Ion	200	Resp	1132
Ion Ratio	Lower	Upper	
200	100		
173	37.3	22.4	33.6#
215	46.1	38.6	57.8



#24
Pentachlorophenol
Concen: 0.315 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.013 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

Tgt Ion	266	Resp	635
Ion Ratio	Lower	Upper	
266	100		
264	64.4	49.9	74.9
268	63.6	52.2	78.4

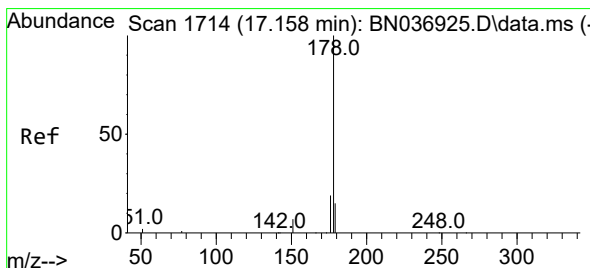
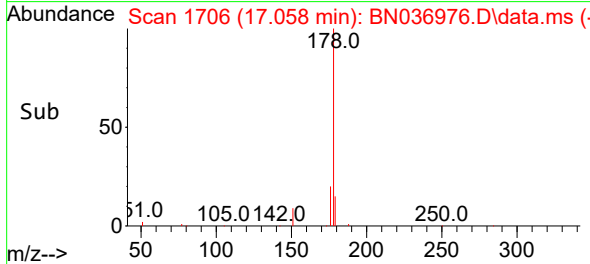
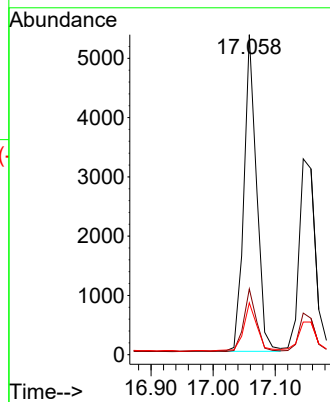
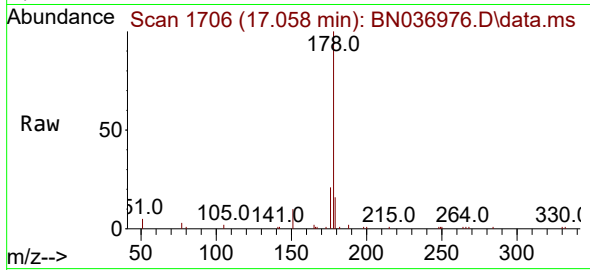




#25
Phenanthrene
Concen: 0.448 ng
RT: 17.058 min Scan# 1712
Delta R.T. -0.000 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

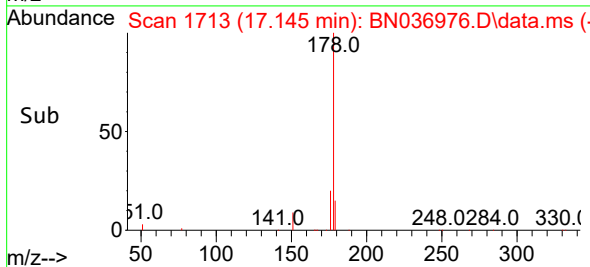
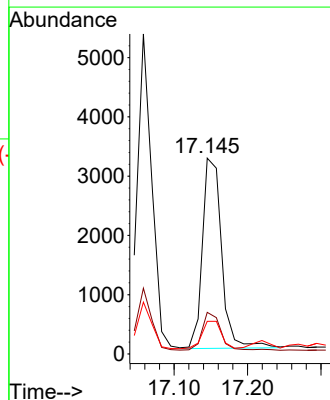
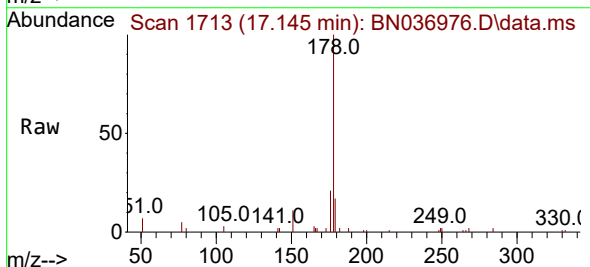
Instrument :
BNA_N
ClientSampleId :
GB2BMDS

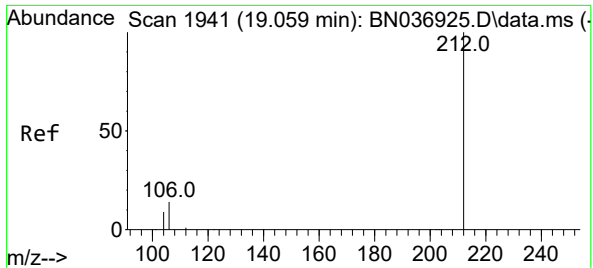
Tgt Ion:178 Resp: 7596
Ion Ratio Lower Upper
178 100
176 19.5 15.7 23.5
179 16.6 12.4 18.6



#26
Anthracene
Concen: 0.381 ng
RT: 17.145 min Scan# 1713
Delta R.T. -0.013 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

Tgt Ion:178 Resp: 5847
Ion Ratio Lower Upper
178 100
176 19.7 15.3 22.9
179 14.5 12.1 18.1





#27

Fluoranthene-d10

Concen: 0.234 ng

RT: 19.054 min Scan# 1940

Delta R.T. -0.005 min

Lab File: BN036976.D

Acq: 08 May 2025 16:53

Instrument :

BNA_N

ClientSampleId :

GB2BMSD

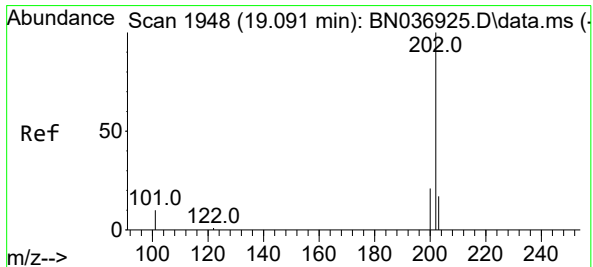
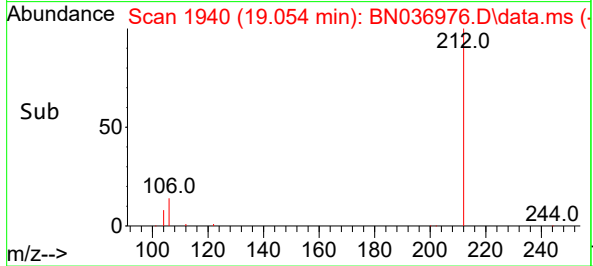
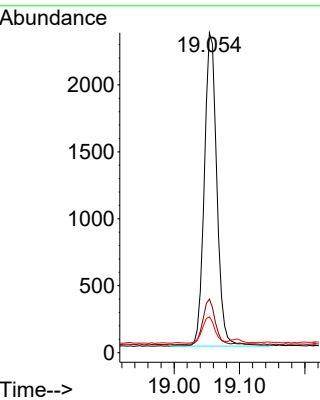
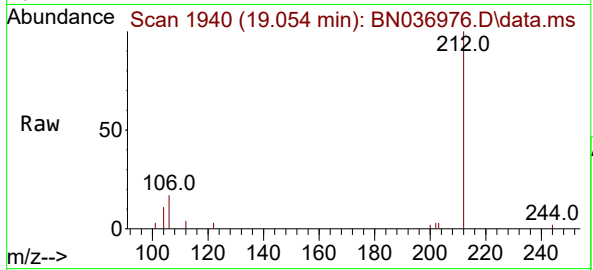
Tgt Ion:212 Resp: 3110

Ion Ratio Lower Upper

212 100

106 14.5 11.6 17.4

104 8.5 7.0 10.4



#28

Fluoranthene

Concen: 0.391 ng

RT: 19.086 min Scan# 1947

Delta R.T. -0.005 min

Lab File: BN036976.D

Acq: 08 May 2025 16:53

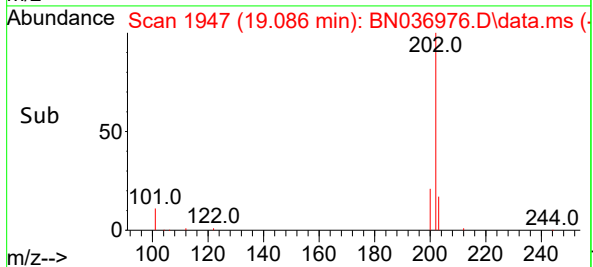
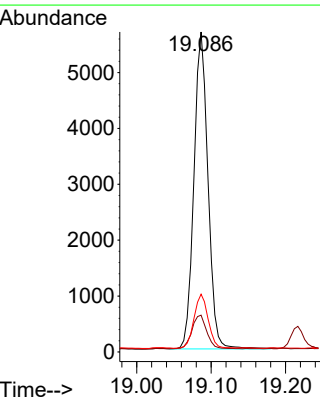
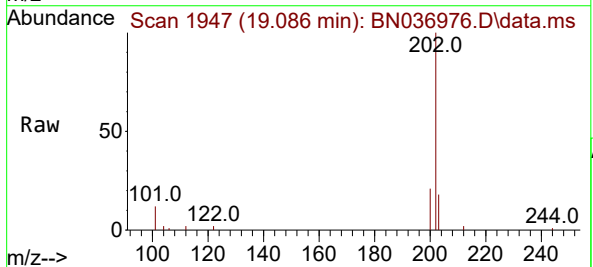
Tgt Ion:202 Resp: 7425

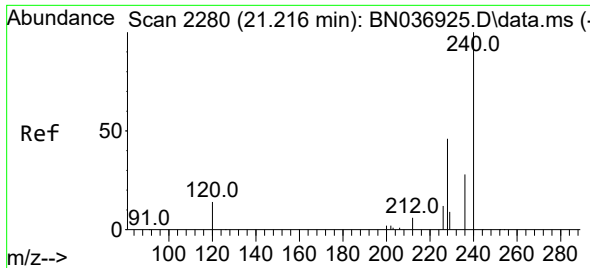
Ion Ratio Lower Upper

202 100

101 11.1 8.5 12.7

203 17.1 13.7 20.5

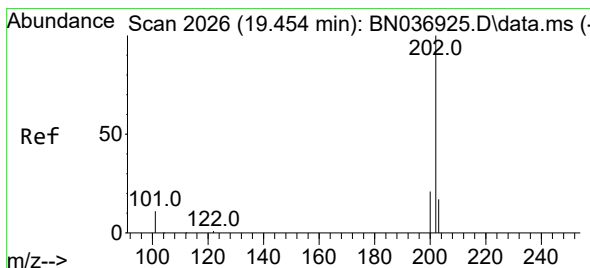
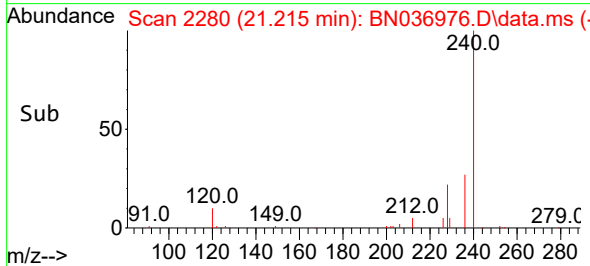
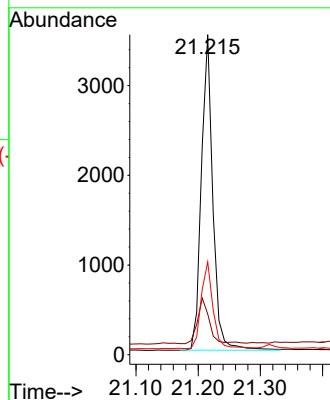
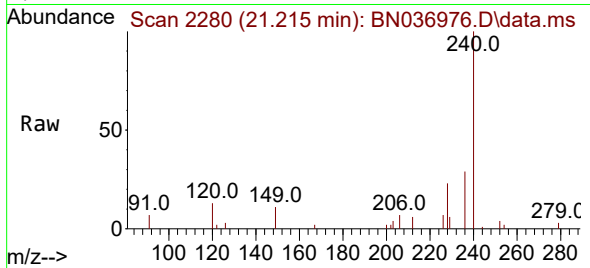




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.215 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

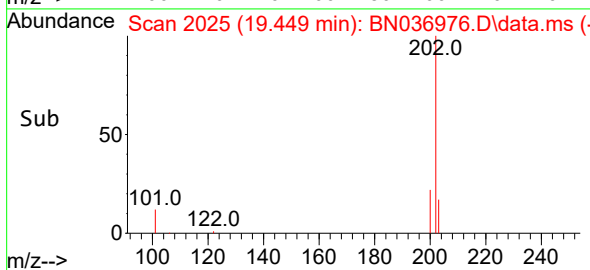
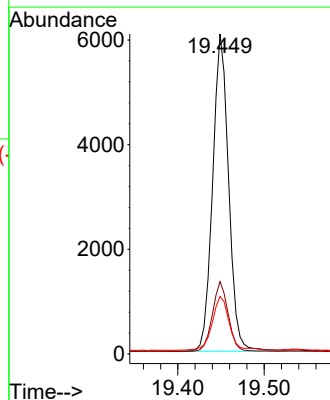
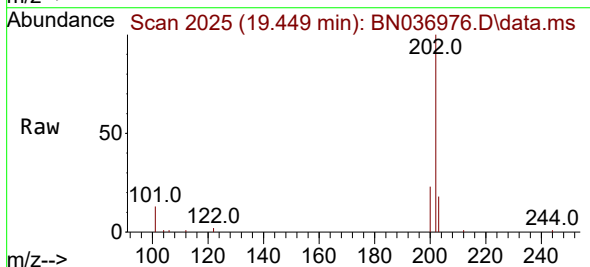
Instrument :
BNA_N
ClientSampleId :
GB2BMSD

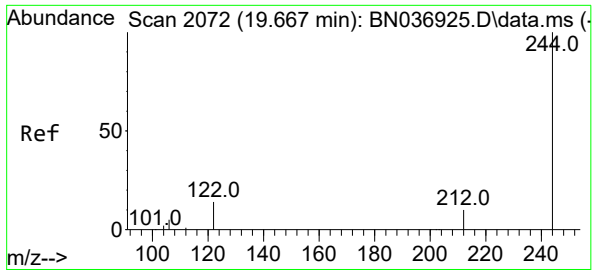
Tgt Ion:240 Resp: 4532
Ion Ratio Lower Upper
240 100
120 12.7 14.1 21.1#
236 29.0 23.8 35.8



#30
Pyrene
Concen: 0.358 ng
RT: 19.449 min Scan# 2025
Delta R.T. -0.005 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

Tgt Ion:202 Resp: 7811
Ion Ratio Lower Upper
202 100
200 21.7 17.0 25.6
203 18.1 14.0 21.0

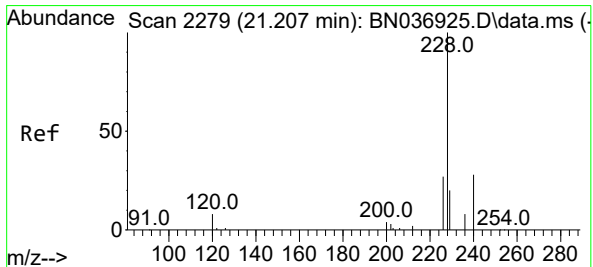
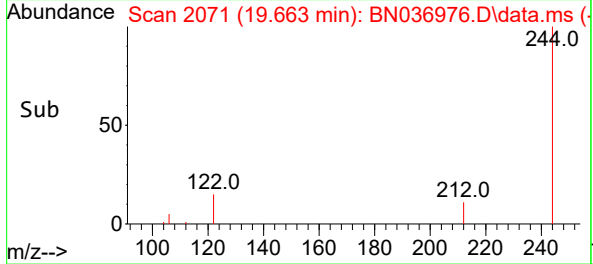
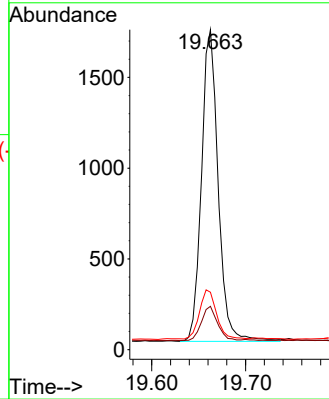
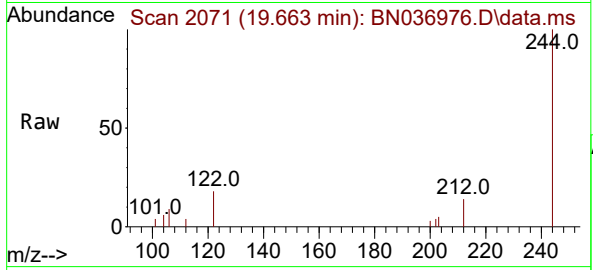




#31
Terphenyl-d14
Concen: 0.199 ng
RT: 19.663 min Scan# 2071
Delta R.T. -0.005 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

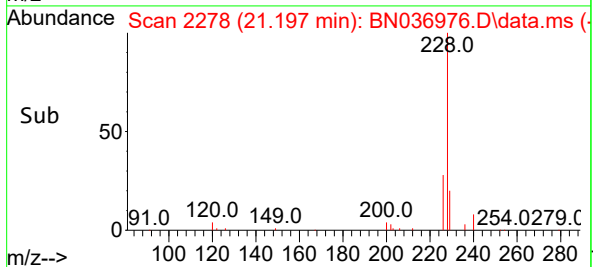
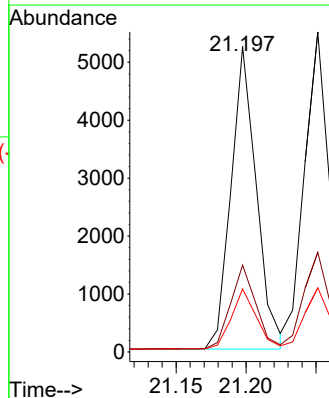
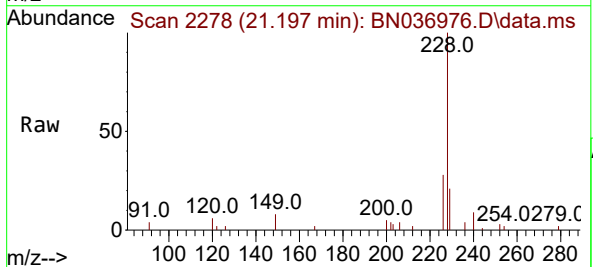
Instrument :
BNA_N
ClientSampleId :
GB2BMSD

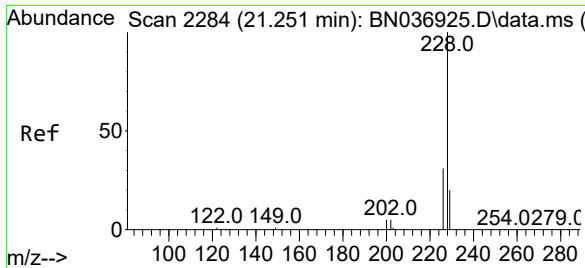
Tgt Ion:244 Resp: 2125
Ion Ratio Lower Upper
244 100
212 13.6 9.6 14.4
122 17.9 12.7 19.1



#32
Benzo(a)anthracene
Concen: 0.394 ng
RT: 21.197 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

Tgt Ion:228 Resp: 6578
Ion Ratio Lower Upper
228 100
226 28.4 22.2 33.4
229 20.6 16.4 24.6





#33

Chrysene

Concen: 0.397 ng

RT: 21.251 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036976.D

Acq: 08 May 2025 16:53

Instrument :

BNA_N

ClientSampleId :

GB2BMDS

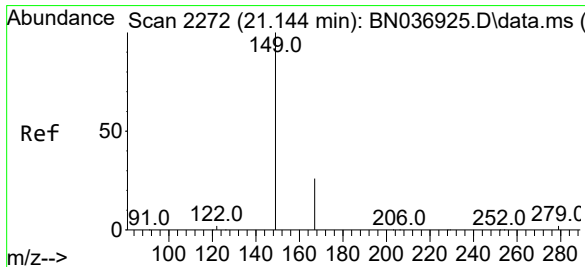
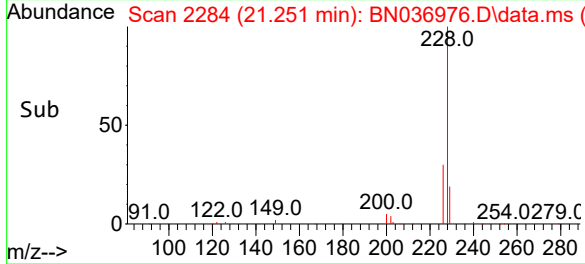
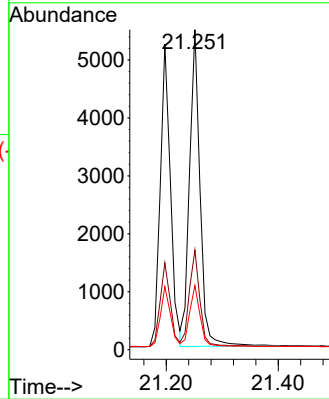
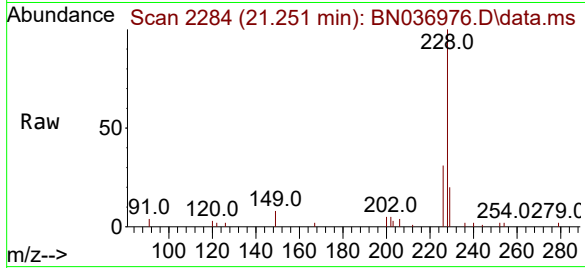
Tgt Ion:228 Resp: 7149

Ion Ratio Lower Upper

228 100

226 31.1 25.5 38.3

229 20.0 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.742 ng

RT: 21.144 min Scan# 2272

Delta R.T. -0.000 min

Lab File: BN036976.D

Acq: 08 May 2025 16:53

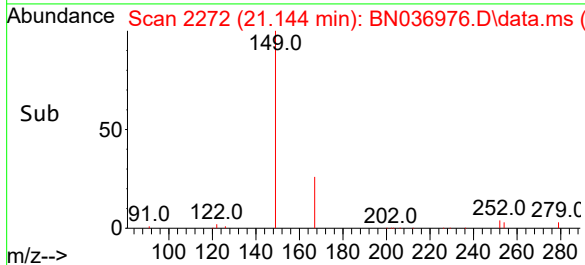
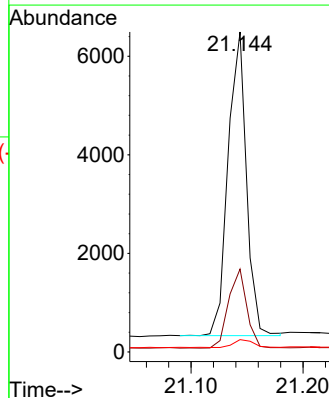
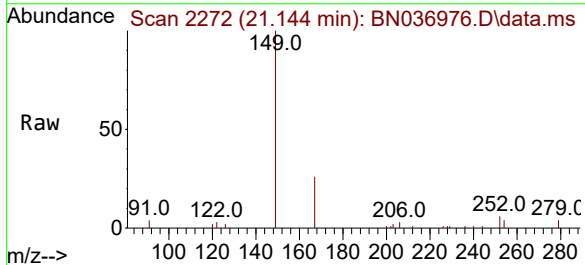
Tgt Ion:149 Resp: 7041

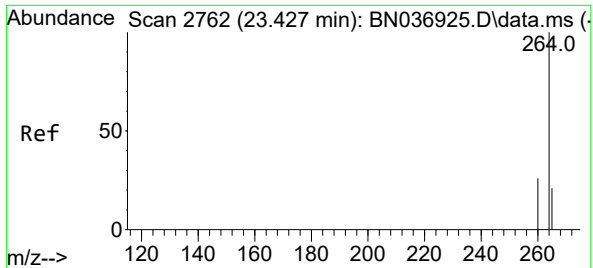
Ion Ratio Lower Upper

149 100

167 25.9 21.0 31.6

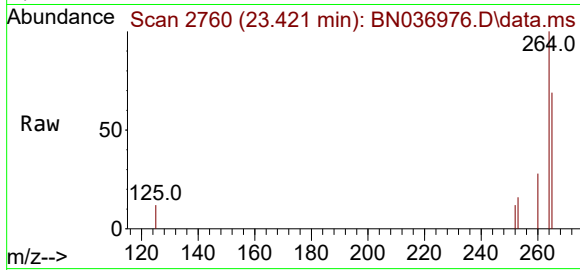
279 2.8 2.7 4.1



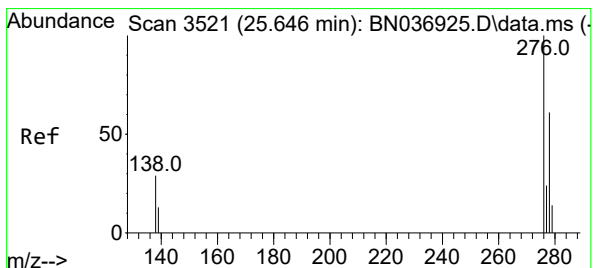
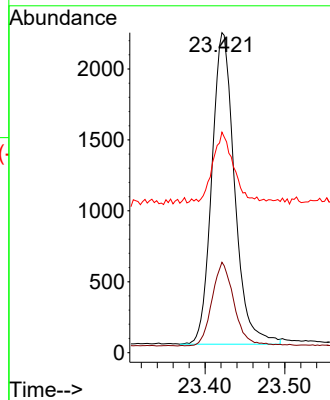
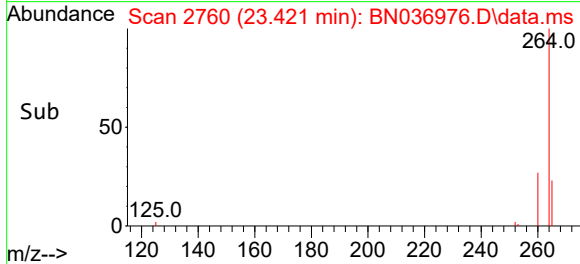


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.421 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

Instrument :
BNA_N
ClientSampleId :
GB2BMDS

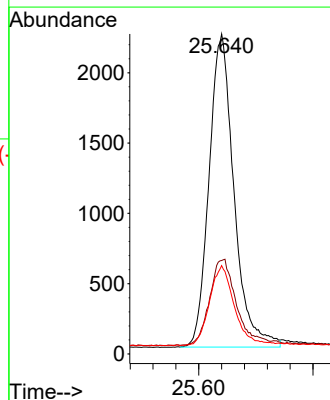
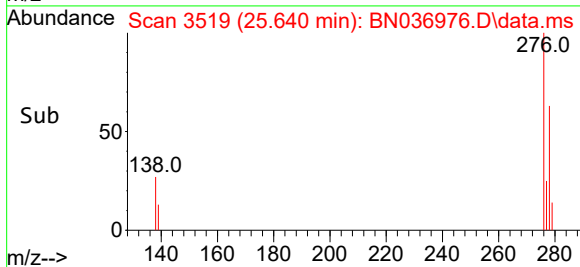
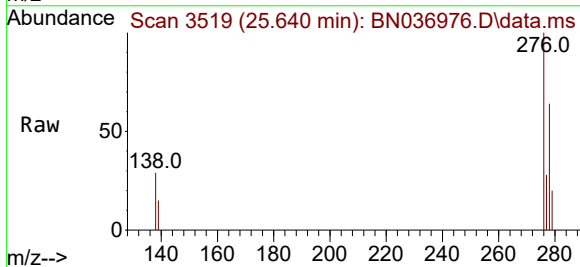


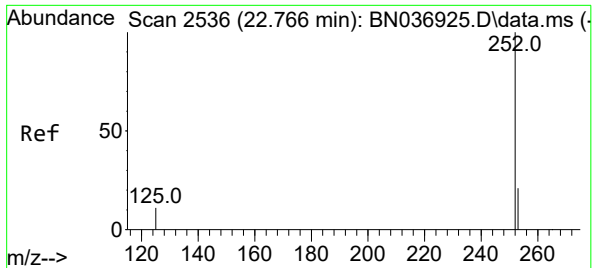
Tgt Ion:264 Resp: 4358
Ion Ratio Lower Upper
264 100
260 28.2 22.2 33.2
265 68.9 65.8 98.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.379 ng
RT: 25.640 min Scan# 3519
Delta R.T. -0.006 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

Tgt Ion:276 Resp: 6746
Ion Ratio Lower Upper
276 100
138 29.4 23.0 34.6
277 25.2 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.365 ng

RT: 22.760 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036976.D

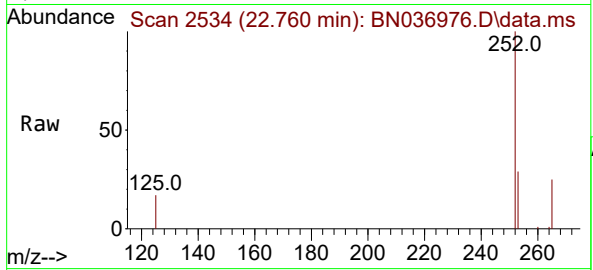
Acq: 08 May 2025 16:53

Instrument :

BNA_N

ClientSampleId :

GB2BM5D



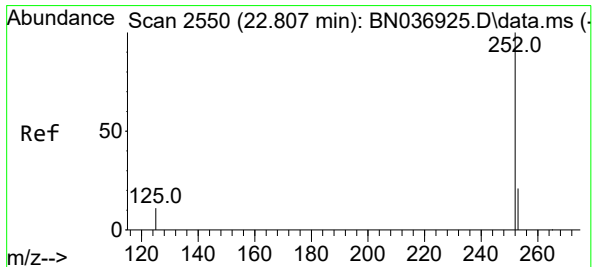
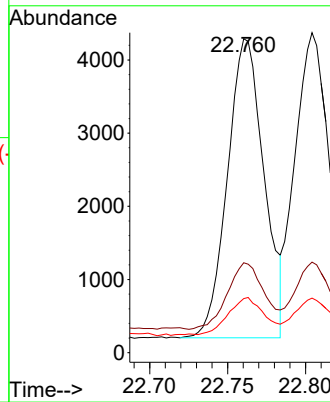
Tgt Ion:252 Resp: 6681

Ion Ratio Lower Upper

252 100

253 28.6 22.1 33.1

125 17.2 14.2 21.2



#38

Benzo(k)fluoranthene

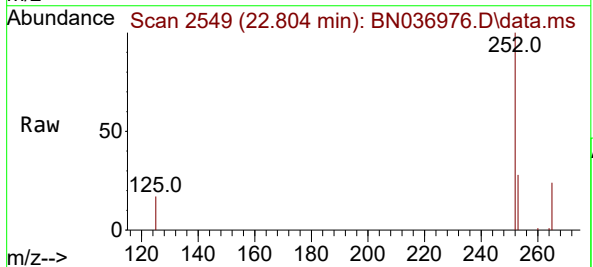
Concen: 0.370 ng

RT: 22.804 min Scan# 2549

Delta R.T. -0.003 min

Lab File: BN036976.D

Acq: 08 May 2025 16:53



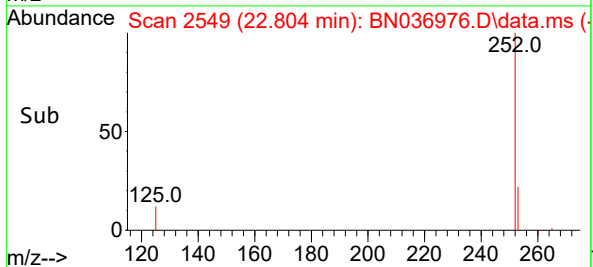
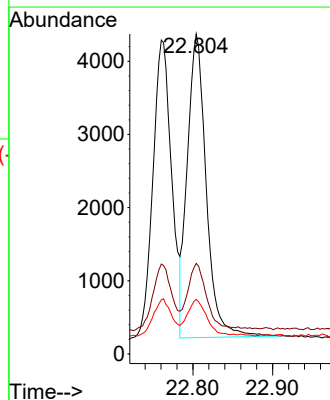
Tgt Ion:252 Resp: 6822

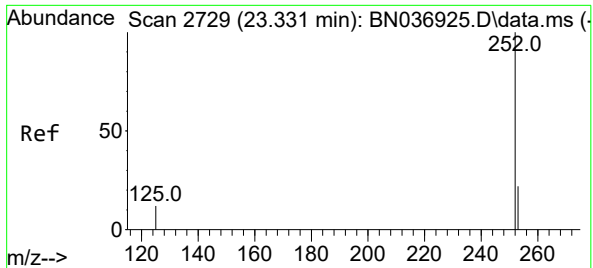
Ion Ratio Lower Upper

252 100

253 28.3 22.8 34.2

125 17.0 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.392 ng

RT: 23.328 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036976.D

Acq: 08 May 2025 16:53

Instrument :

BNA_N

ClientSampleId :

GB2BMDS

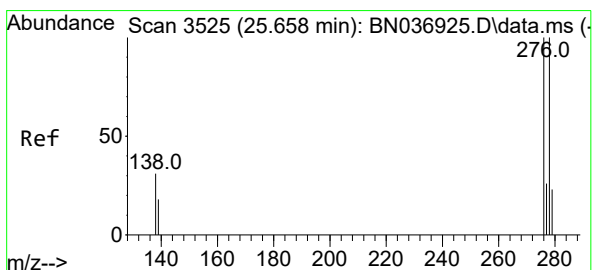
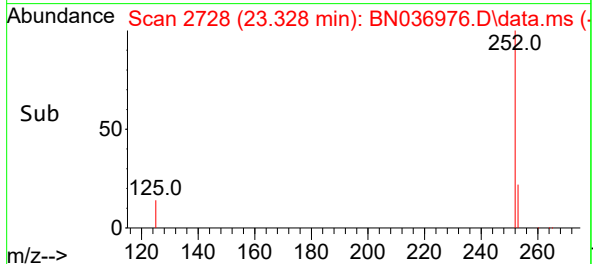
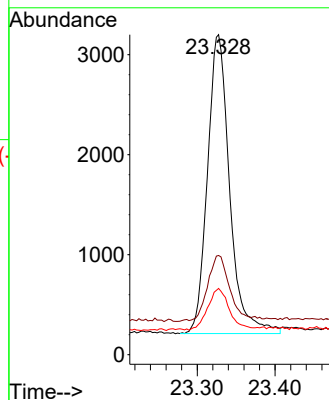
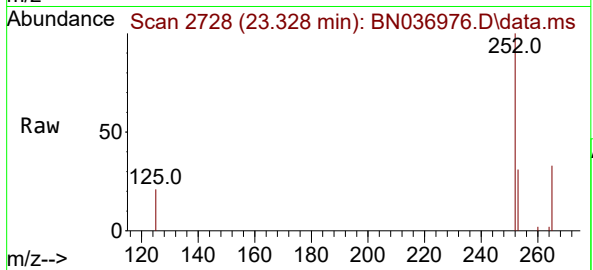
Tgt Ion:252 Resp: 5908

Ion Ratio Lower Upper

252 100

253 31.0 25.9 38.9

125 20.7 17.4 26.0



#40

Dibenzo(a,h)anthracene

Concen: 0.380 ng

RT: 25.655 min Scan# 3524

Delta R.T. -0.003 min

Lab File: BN036976.D

Acq: 08 May 2025 16:53

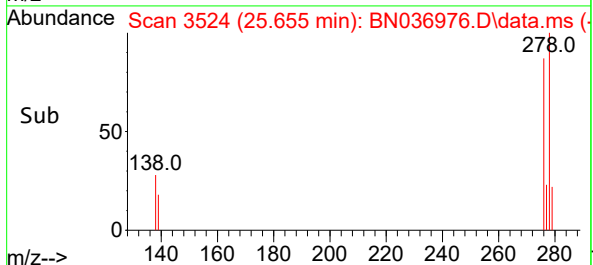
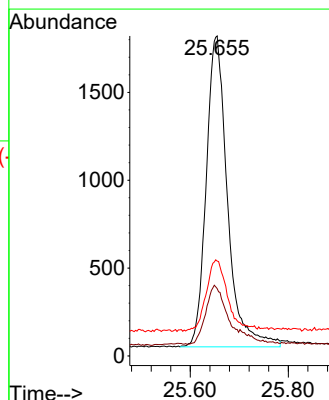
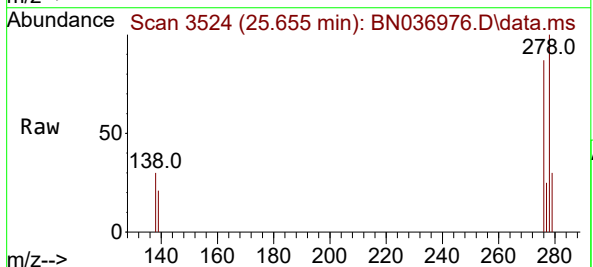
Tgt Ion:278 Resp: 5327

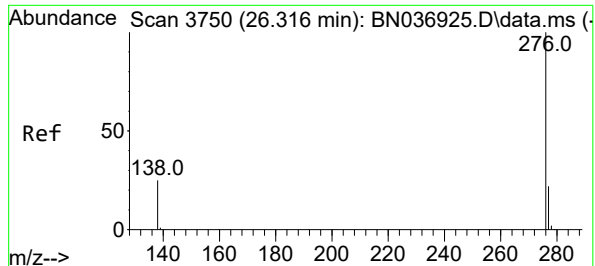
Ion Ratio Lower Upper

278 100

139 21.0 17.4 26.2

279 29.7 24.9 37.3





#41

Benzo(g,h,i)perylene

Concen: 0.347 ng

RT: 26.313 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN036976.D

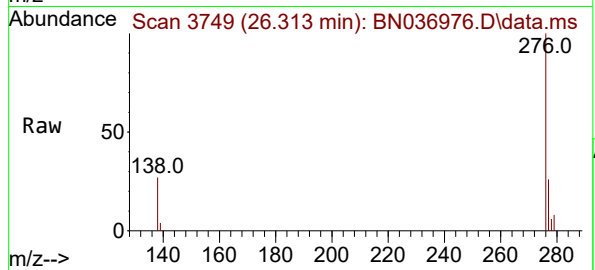
Acq: 08 May 2025 16:53

Instrument :

BNA_N

ClientSampleId :

GB2BMSD



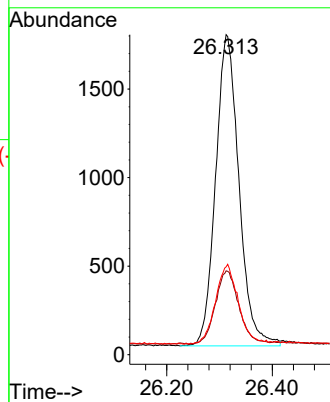
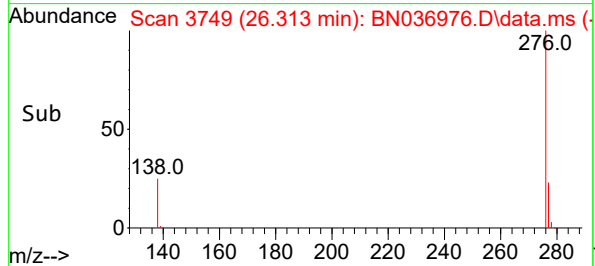
Tgt Ion:276 Resp: 5396

Ion Ratio Lower Upper

276 100

277 26.2 20.2 30.2

138 27.4 21.9 32.9





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

Manual Integration Report

Sequence:	BN042825	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN036923.D	1,4-Dioxane	Rahul	4/29/2025 8:53:49 AM	Jagrut	4/29/2025 11:57:36 AM	Peak Integrated by Software
SSTDICC0.2	BN036924.D	1,4-Dioxane	Rahul	4/29/2025 8:53:52 AM	Jagrut	4/29/2025 11:57:39 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

BN050825

Instrument

BNA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:

BN051225

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN036982.D	1,4-Dioxane	Rahul	5/13/2025 4:14:03 PM	Jagrut	5/13/2025 4:22:41 PM	Peak Integrated by Software
SSTDICC0.1	BN036982.D	Benzo(g,h,i)perylene	Rahul	5/13/2025 4:14:03 PM	Jagrut	5/13/2025 4:22:41 PM	Peak Integrated by Software
SSTDICC0.2	BN036983.D	1,4-Dioxane	Rahul	5/13/2025 4:14:06 PM	Jagrut	5/13/2025 4:22:36 PM	Peak Integrated by Software



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Manual Integration Report

Sequence:

BN051325

Instrument

BNA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN042825

Review By	Rahul	Review On	4/29/2025 8:54:47 AM
Supervise By	Jagrut	Supervise On	4/29/2025 11:57:54 AM
SubDirectory	BN042825	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN042825
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036922.D	28 Apr 2025 10:56	RC/JU	Ok
2	SSTDICC0.1	BN036923.D	28 Apr 2025 11:35	RC/JU	Ok,M
3	SSTDICC0.2	BN036924.D	28 Apr 2025 12:11	RC/JU	Ok,M
4	SSTDICCC0.4	BN036925.D	28 Apr 2025 12:47	RC/JU	Ok
5	SSTDICC0.8	BN036926.D	28 Apr 2025 13:24	RC/JU	Ok
6	SSTDICC1.6	BN036927.D	28 Apr 2025 14:00	RC/JU	Ok
7	SSTDICC3.2	BN036928.D	28 Apr 2025 14:36	RC/JU	Ok
8	SSTDICC5.0	BN036929.D	28 Apr 2025 15:12	RC/JU	Ok
9	SSTDICV0.4	BN036930.D	28 Apr 2025 15:51	RC/JU	Ok
10	PB167430BL	BN036931.D	28 Apr 2025 17:39	RC/JU	Not Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN050825

Review By	Rahul	Review On	5/9/2025 9:44:58 AM
Supervise By	Jagrut	Supervise On	5/9/2025 3:46:05 PM
SubDirectory	BN050825	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN042825
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036971.D	08 May 2025 13:49	RC/JU	Ok
2	SSTDCCC0.4	BN036972.D	08 May 2025 14:28	RC/JU	Ok
3	PB167915BL	BN036973.D	08 May 2025 15:04	RC/JU	Ok
4	Q1939-04	BN036974.D	08 May 2025 15:40	RC/JU	Ok
5	Q1939-04MS	BN036975.D	08 May 2025 16:16	RC/JU	Ok
6	Q1939-04MSD	BN036976.D	08 May 2025 16:53	RC/JU	Ok
7	Q1939-02	BN036977.D	08 May 2025 17:29	RC/JU	Ok
8	Q1939-06	BN036978.D	08 May 2025 18:05	RC/JU	Ok,M
9	PB167915BS	BN036979.D	08 May 2025 18:41	RC/JU	Ok
10	SSTDCCC0.4	BN036980.D	08 May 2025 19:18	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN051225

Review By	Rahul	Review On	5/13/2025 4:20:20 PM
Supervise By	Jagrut	Supervise On	5/13/2025 5:37:31 PM
SubDirectory	BN051225	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn051225
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036981.D	12 May 2025 13:04	RC/JU	Ok
2	SSTDICC0.1	BN036982.D	12 May 2025 13:43	RC/JU	Ok,M
3	SSTDICC0.2	BN036983.D	12 May 2025 14:19	RC/JU	Ok,M
4	SSTDICCC0.4	BN036984.D	12 May 2025 14:55	RC/JU	Ok
5	SSTDICC0.8	BN036985.D	12 May 2025 15:31	RC/JU	Ok
6	SSTDICC1.6	BN036986.D	12 May 2025 16:07	RC/JU	Ok
7	SSTDICC3.2	BN036987.D	12 May 2025 16:43	RC/JU	Ok
8	SSTDICC5.0	BN036988.D	12 May 2025 17:19	RC/JU	Ok
9	SSTDICV0.4	BN036989.D	12 May 2025 17:55	RC/JU	Ok
10	PB167888BL	BN036990.D	12 May 2025 19:44	RC/JU	Not Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # BN051325

Review By	Rahul	Review On	5/14/2025 2:19:26 PM
Supervise By	Jagrut	Supervise On	5/14/2025 5:15:40 PM
SubDirectory	BN051325	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn051225
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036991.D	13 May 2025 09:55	RC/JU	Ok
2	SSTDCCC0.4	BN036992.D	13 May 2025 10:39	RC/JU	Ok
3	PB167915BL	BN036993.D	13 May 2025 12:27	RC/JU	Not Ok
4	Q1872-11	BN036994.D	13 May 2025 13:23	RC/JU	Dilution
5	Q1872-11DL	BN036995.D	13 May 2025 14:20	RC/JU	Ok
6	Q1872-12	BN036996.D	13 May 2025 15:14	RC/JU	Ok
7	SSTDCCC0.4	BN036997.D	13 May 2025 15:58	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN042825

Review By	Rahul	Review On	4/29/2025 8:54:47 AM
Supervise By	Jagrut	Supervise On	4/29/2025 11:57:54 AM
SubDirectory	BN042825	HP Acquire Method	BNA_N, 8270_HP Processing Method BN042825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036922.D	28 Apr 2025 10:56		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN036923.D	28 Apr 2025 11:35	Compound#20 removed from 0.1 ppm	RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN036924.D	28 Apr 2025 12:11		RC/JU	Ok,M
4	SSTDICCC0.4	SSTDICCC0.4	BN036925.D	28 Apr 2025 12:47		RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN036926.D	28 Apr 2025 13:24		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN036927.D	28 Apr 2025 14:00		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN036928.D	28 Apr 2025 14:36		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN036929.D	28 Apr 2025 15:12		RC/JU	Ok
9	SSTDICV0.4	ICVBN042825	BN036930.D	28 Apr 2025 15:51		RC/JU	Ok
10	PB167430BL	PB167430BL	BN036931.D	28 Apr 2025 17:39	Internal Standard Fail, Analyzed for contamination check	RC/JU	Not Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN050825

Review By	Rahul	Review On	5/9/2025 9:44:58 AM
Supervise By	Jagrut	Supervise On	5/9/2025 3:46:05 PM
SubDirectory	BN050825	HP Acquire Method	BNA_N, 8270_HP Processing Method BN042825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036971.D	08 May 2025 13:49		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036972.D	08 May 2025 14:28		RC/JU	Ok
3	PB167915BL	PB167915BL	BN036973.D	08 May 2025 15:04		RC/JU	Ok
4	Q1939-04	GB2B	BN036974.D	08 May 2025 15:40		RC/JU	Ok
5	Q1939-04MS	GB2BMS	BN036975.D	08 May 2025 16:16		RC/JU	Ok
6	Q1939-04MSD	GB2BMSD	BN036976.D	08 May 2025 16:53		RC/JU	Ok
7	Q1939-02	GB1B	BN036977.D	08 May 2025 17:29		RC/JU	Ok
8	Q1939-06	GB3B	BN036978.D	08 May 2025 18:05	Internal Standard Fail	RC/JU	Ok,M
9	PB167915BS	PB167915BS	BN036979.D	08 May 2025 18:41		RC/JU	Ok
10	SSTDCCC0.4	SSTDCCC0.4EC	BN036980.D	08 May 2025 19:18		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN051225

Review By	Rahul	Review On	5/13/2025 4:20:20 PM
Supervise By	Jagrut	Supervise On	5/13/2025 5:37:31 PM
SubDirectory	BN051225	HP Acquire Method	BNA_N, 8270_HP Processing Method bn051225

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

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036981.D	12 May 2025 13:04		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN036982.D	12 May 2025 13:43		RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN036983.D	12 May 2025 14:19		RC/JU	Ok,M
4	SSTDICCC0.4	SSTDICCC0.4	BN036984.D	12 May 2025 14:55		RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN036985.D	12 May 2025 15:31		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN036986.D	12 May 2025 16:07		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN036987.D	12 May 2025 16:43		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN036988.D	12 May 2025 17:19		RC/JU	Ok
9	SSTDICV0.4	ICVBN051225	BN036989.D	12 May 2025 17:55		RC/JU	Ok
10	PB167888BL	PB167888BL	BN036990.D	12 May 2025 19:44	Analyzed for contamination check	RC/JU	Not Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN051325

Review By	Rahul	Review On	5/14/2025 2:19:26 PM
Supervise By	Jagrut	Supervise On	5/14/2025 5:15:40 PM
SubDirectory	BN051325	HP Acquire Method	BNA_N, 8270_HP Processing Method bn051225

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

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036991.D	13 May 2025 09:55		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036992.D	13 May 2025 10:39		RC/JU	Ok
3	PB167915BL	PB167915BL	BN036993.D	13 May 2025 12:27	Not Used	RC/JU	Not Ok
4	Q1872-11	HW0425-PT-BNA-SOIL	BN036994.D	13 May 2025 13:23	PT Sample, Need 50X Dilution	RC/JU	Dilution
5	Q1872-11DL	HW0425-PT-BNA-SOIL	BN036995.D	13 May 2025 14:20		RC/JU	Ok
6	Q1872-12	HW0425-PT-TRIAZINE	BN036996.D	13 May 2025 15:14		RC/JU	Ok
7	SSTDCCC0.4	SSTDCCC0.4EC	BN036997.D	13 May 2025 15:58		RC/JU	Ok

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 4/25/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 04/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:25
Out Date: 04/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135545

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1869-01	MH-F	1	1.14	10.43	11.57	10.47	89.5	
Q1869-02	MH-F-EPH	2	1.18	9.96	11.14	10.12	89.8	
Q1869-03	MH-F-VOC	3	1.16	10.28	11.44	10.4	89.9	
Q1871-01	MH-A	4	1.14	9.59	10.73	9.86	90.9	
Q1871-02	MH-A-EPH	5	1.18	9.97	11.15	10.25	91.0	
Q1871-03	MH-A-VOC	6	1.15	10.22	11.37	10.47	91.2	
Q1871-05	MH-B	7	1.18	10.31	11.49	10.58	91.2	
Q1871-06	MH-B-EPH	8	1.16	9.63	10.79	10.05	92.3	
Q1871-07	MH-B-VOC	9	1.18	10.35	11.53	10.75	92.5	
Q1872-01	HW0425-PT-AN-SOIL	31	1.00	1.00	2.00	2.00	100.0	
Q1872-02	HW0425-PT-CORR-SOIL	32	1.00	1.00	2.00	2.00	100.0	
Q1872-03	HW0425-PT-CN-SOIL	33	1.00	1.00	2.00	2.00	100.0	
Q1872-04	HW0425-PT-CN-SOIL	34	1.00	1.00	2.00	2.00	100.0	
Q1872-05	HW0425-PT-FP-SOIL	35	1.00	1.00	2.00	2.00	100.0	
Q1872-06	HW0425-PT-CR6-SOIL	36	1.00	1.00	2.00	2.00	100.0	
Q1872-07	HW0425-PT-NUT-SOIL	37	1.00	1.00	2.00	2.00	100.0	
Q1872-08	HW0425-PT-NUT-SOIL	38	1.00	1.00	2.00	2.00	100.0	
Q1872-09	HW0425-PT-OGP-SOIL	39	1.00	1.00	2.00	2.00	100.0	
Q1872-10	HW0425-PT-MET-SOIL	40	1.00	1.00	2.00	2.00	100.0	
Q1872-11	HW0425-PT-BNA-SOIL	41	1.00	1.00	2.00	2.00	100.0	
Q1872-12	HW0425-PT-TRIAZINE-SOIL	42	1.00	1.00	2.00	2.00	100.0	
Q1872-13	HW0425-PT-PAH-SOIL	43	1.00	1.00	2.00	2.00	100.0	
Q1872-14	HW0425-PT-DIES-SOIL	44	1.00	1.00	2.00	2.00	100.0	
Q1872-15	HW0425-PT-GAS-SOIL	45	1.00	1.00	2.00	2.00	100.0	
Q1872-16	HW0425-PT-NJEPH-SOIL	46	1.00	1.00	2.00	2.00	100.0	
Q1872-17	HW0425-PT-HERB-SOIL	47	1.00	1.00	2.00	2.00	100.0	
Q1872-18	HW0425-PT-PCB-SOIL	48	1.00	1.00	2.00	2.00	100.0	
Q1872-19	HW0425-PT-PCBO-SOIL	49	1.00	1.00	2.00	2.00	100.0	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 4/25/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 04/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:25
Out Date: 04/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135545

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
Q1872-20	HW0425-PT-PEST-SOIL	50	1.00	1.00	2.00	2.00	100.0	
Q1872-21	HW0425-PT-CHLR-SOIL	51	1.00	1.00	2.00	2.00	100.0	
Q1872-22	HW0425-PT-TXP-SOIL	52	1.00	1.00	2.00	2.00	100.0	
Q1872-23	HW0425-PT-VOA-SOIL	53	1.00	1.00	2.00	2.00	100.0	
Q1872-25	HW0425-PT-NO2-SOIL	54	1.00	1.00	2.00	2.00	100.0	
Q1873-01	CAM-40619	10	1.14	10.70	11.84	4.97	35.8	
Q1873-02	CAM-40620	11	1.15	10.42	11.57	6.19	48.4	
Q1873-03	CAM-40619-20	12	1.18	10.21	11.39	4.77	35.2	
Q1874-01	VNJ-236	13	1.19	10.45	11.64	10.89	92.8	
Q1874-03	RT1491	14	1.19	11.16	12.35	11.43	91.8	
Q1874-05	HT3727	15	1.16	10.63	11.79	11.06	93.1	
Q1875-01	AUD-25-0053	16	1.14	10.75	11.89	11.19	93.5	
Q1875-03	AUD-25-0054	17	1.14	10.02	11.16	10.52	93.6	
Q1875-04	AUD-25-0024	18	1.14	10.03	11.17	10.77	96.0	
Q1876-01	AUD-25-0058	19	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-02	AUD-25-0059	20	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-03	AUD-25-0060	21	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-04	AUD-25-0061	22	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-05	AUD-25-0062	23	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-06	AUD-25-0063	24	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-07	AUD-25-0064	25	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-08	AUD-25-0065	26	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-09	AUD-25-0066	27	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1877-01	AU-6-042425	55	1.14	10.25	11.39	10.72	93.5	
Q1877-02	AU-6-042425	28	1.14	10.21	11.35	10.54	92.1	
Q1878-01	TR-4-042425	29	1.14	10.17	11.31	11.2	98.9	
Q1878-02	TR-4-042425-E2	30	1.19	10.28	11.47	10.92	94.6	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

UR 135545

WorkList Name : %1-042425

WorkList ID : 189122

Department : Wet-Chemistry

Date : 04-24-2025 08:52:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1869-01	MH-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1869-02	MH-F-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1869-03	MH-F-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1871-01	MH-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1871-02	MH-A-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1871-03	MH-A-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1871-05	MH-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1871-06	MH-B-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1871-07	MH-B-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1872-01	HW0425-PT-AN-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-02	HW0425-PT-CORR-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-03	HW0425-PT-CN-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-04	HW0425-PT-CN-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-05	HW0425-PT-FP-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-06	HW0425-PT-CR6-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-07	HW0425-PT-NUT-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-08	HW0425-PT-NUT-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-09	HW0425-PT-OGR-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-10	HW0425-PT-MET-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-11	HW0425-PT-BNA-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-12	HW0425-PT-TRIAZINE-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO

Date/Time 04/24/25 15430
 Raw Sample Received by: sg wyc,
 Raw Sample Relinquished by: DAW

Date/Time 04/24/25 17425
 Raw Sample Received by: DAW
 Raw Sample Relinquished by: DAW

135545

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-042425 WorkList ID : 189122 Department : Wet-Chemistry Date : 04-24-2025 08:52:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1872-13	HW0425-PT-PAH-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-14	HW0425-PT-DIES-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-15	HW0425-PT-GAS-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-16	HW0425-PT-NJEPH-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-17	HW0425-PT-HERB-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-18	HW0425-PT-PCB-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-19	HW0425-PT-PCBO-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-20	HW0425-PT-PEST-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-21	HW0425-PT-CHLR-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-22	HW0425-PT-TXP-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-23	HW0425-PT-VOA-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-25	HW0425-PT-NO2-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1873-01	CAM-40619	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1873-02	CAM-40620	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1873-03	CAM-40619-20	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1874-01	VNJ-236	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/24/2025	Chemtech -SO
Q1874-03	RT1491	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/24/2025	Chemtech -SO
Q1874-05	HT3727	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/24/2025	Chemtech -SO
Q1875-01	AUD-25-0053	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1875-03	AUD-25-0054	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1875-04	AUD-25-0024	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO

Date/Time 04/24/25 15:30
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

WORKLIST(Hardcopy Internal Chain)

27 135545

WorkList Name : %1-042425 WorkList ID : 189122 Department : Wet-Chemistry Date : 04-24-2025 08:52:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1876-01	AUD-25-0058	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-02	AUD-25-0059	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-03	AUD-25-0060	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-04	AUD-25-0061	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-05	AUD-25-0062	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-06	AUD-25-0063	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-07	AUD-25-0064	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-08	AUD-25-0065	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-09	AUD-25-0066	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1877-01	AU-6-042425	Solid	Percent Solids	Cool 4 deg C	PSEG05	L41	04/24/2025	Chemtech -SO
Q1877-02	AU-6-042425	Solid	Percent Solids	Cool 4 deg C	PSEG05	L41	04/24/2025	Chemtech -SO
Q1878-01	TR-4-042425	Solid	Percent Solids	Cool 4 deg C	PSEG05	L41	04/24/2025	Chemtech -SO
Q1878-02	TR-4-042425-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L41	04/24/2025	Chemtech -SO

Date/Time 04/24/25 15:30

Raw Sample Received by: 280001

Raw Sample Relinquished by: 280001

Date/Time 04/24/25

Raw Sample Received by: 280001

Raw Sample Relinquished by: 280001

17:25

28 17:35

280001

280001

SOP ID:	M3541-ASE Extraction-14		
Clean Up SOP #:	N/A	Extraction Start Date :	05/08/2025
Matrix :	Solid	Extraction Start Time :	10:03
Welgh By:	EH	Extraction By:	RJ
Balance check:	RJ	Filter By:	RJ
Balance ID:	EX-SC-2	pH Meter ID:	N/A
pH Strip Lot#:	N/A	Hood ID:	3,7
		Concentration By:	EH
		Supervisor By :	RUPESH

Extraction Method:
☐ Seperatory Funnel
 ☐ Continious 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	SP6755
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
MeCl2/Acetone/1:1	N/A	EP2600
Baked Na2SO4	N/A	EP2607
Sand	N/A	E2865
Methylene Chloride	N/A	E3930
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.

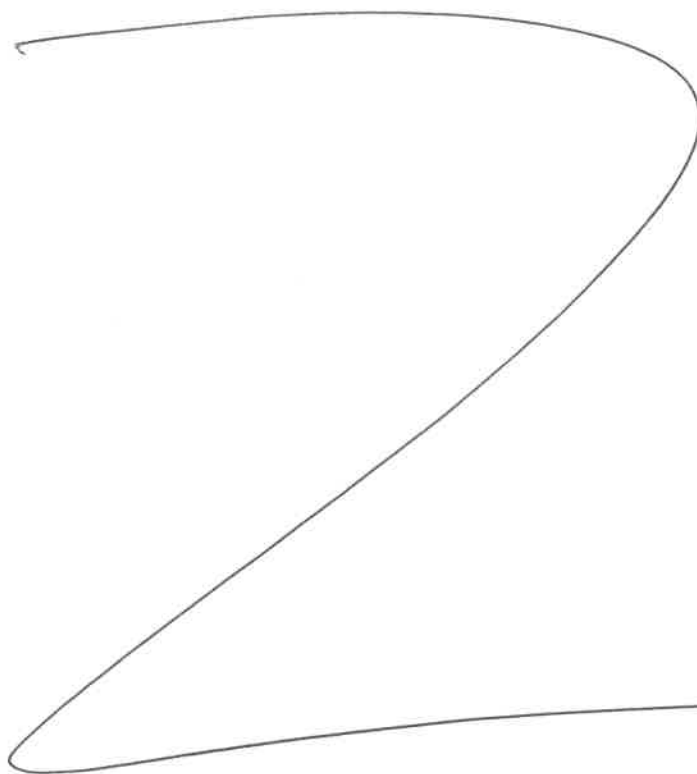
KD Bath ID:	N/A	Envap ID:	NEVAP-02
KD Bath Temperature:	N/A	Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/8/25	RS (Ext Lab)	RC/SVOC
13:15	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 05/08/2025

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167915BL	SBLK915	SVOC-SIMGrou p1	30.02	N/A	ritesh	Evelyn	1			U2-1
PB167915BS	SLCS915	SVOC-SIMGrou p1	30.01	N/A	ritesh	Evelyn	1			2
Q1872-11	HW0425-PT-BNA-SOIL	SVOCMS Group2	30.21	N/A	ritesh	Evelyn	1	A		3
Q1872-12	HW0425-PT-TRIAZINE-SO IL	SVOCMS Group5	30.37	N/A	ritesh	Evelyn	1	A		4
Q1872-13	HW0425-PT-PAH-SOIL	SVOCMS Group3	30.15	N/A	ritesh	Evelyn	1	A		5
Q1939-02	GB1B	SVOC-SIMGrou p1	30.05	N/A	ritesh	Evelyn	1	E		6
Q1939-04	GB2B	SVOC-SIMGrou p1	30.08	N/A	ritesh	Evelyn	1	E		U3-1
Q1939-04MS	GB2BMS	SVOC-SIMGrou p1	30.02	N/A	ritesh	Evelyn	1	E		2
Q1939-04MS D	GB2BMSD	SVOC-SIMGrou p1	30.04	N/A	ritesh	Evelyn	1	E		3
Q1939-06	GB3B	SVOC-SIMGrou p1	30.07	N/A	ritesh	Evelyn	1	E		4



RS
5/8

167915
10/25/25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1939 WorkList ID : 189390 Department : Extraction Date : 05-08-2025 09:56:09

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1872-11	HW0425-PT-BNA-SOIL	Solid	SVOCMS Group2	Cool 4 deg C	ALLI03	QA Of	04/21/2025	8270-Modified
Q1872-12	HW0425-PT-TRIAZINE-SOIL	Solid	SVOCMS Group5	Cool 4 deg C	ALLI03	QA Of	04/21/2025	8270-Modified
Q1872-13	HW0425-PT-PAH-SOIL	Solid	SVOCMS Group3	Cool 4 deg C	ALLI03	QA Of	04/21/2025	8270-Modified
Q1939-02	GB1B	Solid	SVOC-SIMGroup1	Cool 4 deg C	GENV01	L51	05/01/2025	8270-Modified
Q1939-04	GB2B	Solid	SVOC-SIMGroup1	Cool 4 deg C	GENV01	L51	05/01/2025	8270-Modified
Q1939-06	GB3B	Solid	SVOC-SIMGroup1	Cool 4 deg C	GENV01	L51	05/01/2025	8270-Modified

Date/Time 5/8/25 10:00
Raw Sample Received by: RJ (Ext-06)
Raw Sample Relinquished by: 208

Date/Time 5/8/25 10:20
Raw Sample Received by: OPR
Raw Sample Relinquished by: RJ (Ext-06)

Prep Standard - Chemical Standard Summary

Order ID : Q1872

Test : SVOCMS Group5

Prepbatch ID : PB167915,

Sequence ID/Qc Batch ID: BN050825,BN051325,

Standard ID :

EP2600,EP2607,SP6682,SP6730,SP6731,SP6732,SP6733,SP6734,SP6735,SP6736,SP6738,SP6739,SP6740,SP6755,SP6757,SP6767,SP6768,SP6774,SP6775,SP6776,SP6777,SP6778,SP6779,SP6780,SP6781,

Chemical ID :

1ul/100ul

sample,E2865,E3551,E3828,E3873,E3874,E3902,E3904,E3917,E3926,E3930,S10104,S11495,S11496,S11650,S11785,S11788,S11832,S12114,S12115,S12195,S12216,S12270,S12271,S12328,S12478,S12486,S12525,S12533,S12577,S12651,S12791,S12792,S12966,S12974,

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>
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2600	04/07/2025	10/03/2025	Rajesh Parikh	None	None	Riteshkumar Patel
								04/07/2025

FROM 8000.00000ml of E3904 + 8000.00000ml of E3917 = Final Quantity: 16000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2607	04/25/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2 (EX-SC-2)	None	Riteshkumar Patel
								04/25/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

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	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

<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	Shreena 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	Shreena 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	Shreena 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	Shreena 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	Shreena 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	Shreena 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	Shreena 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	Shreena 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	Shreena 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	SP6755	03/20/2025	07/24/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								04/01/2025

FROM 0.00400ml of S12195 + 0.00800ml of S12216 + 0.02000ml of S11832 + 99.96800ml of E3902 = Final Quantity: 100.000 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>
3895	50 ug/ml DFTPP 8270E	SP6757	03/31/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay
								04/01/2025

FROM 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6767	04/10/2025	07/24/2025	Jagrut Upadhyay	None	None	Sohil Jodhani
								04/16/2025

FROM SOURCE
0.00630ml of S12195 + 0.01280ml of S12216 + 0.03200ml of S11788 + 0.03200ml of S11832 + 0.06400ml of S12486 +
0.06400ml of S12533 + 0.06400ml of S12974 + 19.72490ml of E3926 = Final Quantity: 20.000 ml



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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3339	8270 sim calibration stock 10ppm (CPI)	SP6774	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025
<u>FROM</u> 0.03350ml of S10104 + 0.05000ml of S11496 + 0.12500ml of S11832 + 0.12500ml of S12115 + 0.25000ml of S12271 + 0.25000ml of S12792 + 24.16650ml of E3926 = Final Quantity: 25.000 ml								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6775	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.50000ml of E3926 + 0.01000ml of SP6740 + 0.50000ml of SP6774 = Final Quantity: 1.010 ml

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

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

SVOC STANDARD PREPARATION LOG

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

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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6778	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

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

SVOC STANDARD PREPARATION LOG

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

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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6780	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

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



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6781	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025
<u>FROM</u> 0.75000ml of E3926 + 0.01000ml of SP6740 + 0.25000ml of SP6779 = Final Quantity: 1.010 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	06/30/2025	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

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 #
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-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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	09/18/2025	03/18/2025 / RUPESH	02/12/2025 / RUPESH	E3902

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 /	12/27/2024 / RUPESH	E3904

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	10/03/2025	04/03/2025 / Rajesh	03/31/2025 / Rajesh	E3917

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	10/08/2025	04/08/2025 / Rajesh	02/07/2025 / Rajesh	E3926

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	02/20/2026	05/02/2025 / RUPESH	03/09/2025 / RUPESH	E3930

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	07/30/2025	01/30/2025 / anahy	12/09/2021 / Christian	S10104

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	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 #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	10/28/2025	04/28/2025 / Jagrut	08/11/2023 / Yogesh	S11496

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	07/29/2025	01/29/2025 / anahy	11/09/2023 / Yogesh	S11650

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	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	09/10/2025	03/10/2025 / anahy	11/21/2023 / Rahul	S11788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	07/24/2025	01/24/2025 / anahy	11/21/2023 / rahul	S11832

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	05/12/2025	11/12/2024 / Jagrut	03/08/2024 / Rahul	S12114

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	10/28/2025	04/28/2025 / Jagrut	03/08/2024 / Rahul	S12115

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12195

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml, CH ₂ Cl ₂ , 5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12216

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	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 #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	10/28/2025	04/28/2025 / Jagrut	05/24/2024 / Rahul	S12271

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12478

[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	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12486

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	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	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12533

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH ₂ Cl ₂ , 1mL,	A0212955	06/30/2027	03/31/2025 / Rahul	08/01/2024 / Rahul	S12577

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0212266	08/07/2025	02/07/2025 / anahy	09/20/2024 / anahy	S12651

CHEMICAL RECEIPT LOG BOOK

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 #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	06/21/2025	04/28/2025 / Jagrut	05/24/2024 / Rahul	S12792

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	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 #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12974



5580 Skylane Blvd
Santa Rosa, CA 95403

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(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**
Z-112090 440246 $\leq -10^{\circ}\text{C}$ Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: _____

Erica Castiglione
Chemist

Sand
Purified
Washed and Ignited



Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

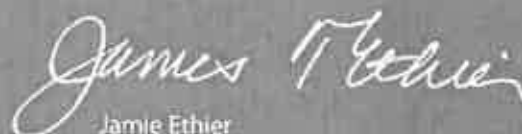
Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	$\leq 0.16\%$	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2865


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



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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

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

Avantor Performance Materials LLC

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

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3874

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3902

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

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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 03/31/25

E3917

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor



Material No.: 9266-A4
Batch No.: 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 3926

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid (μ eq/g)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	<0.01%

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3930

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

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Santa Rosa, CA 95403

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Manufacturer's Quality System
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by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-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.



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Santa Rosa, CA 95403

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Manufacturer's Quality System
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by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓
511498 } 08/11/2023

*Not a certified value

Certified By: _____

Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** A0201728

Description : Custom Pentachlorophenol Standard
Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

511649
↓
511658 } Y.P.
11/13/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023

Balance: B251644995

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

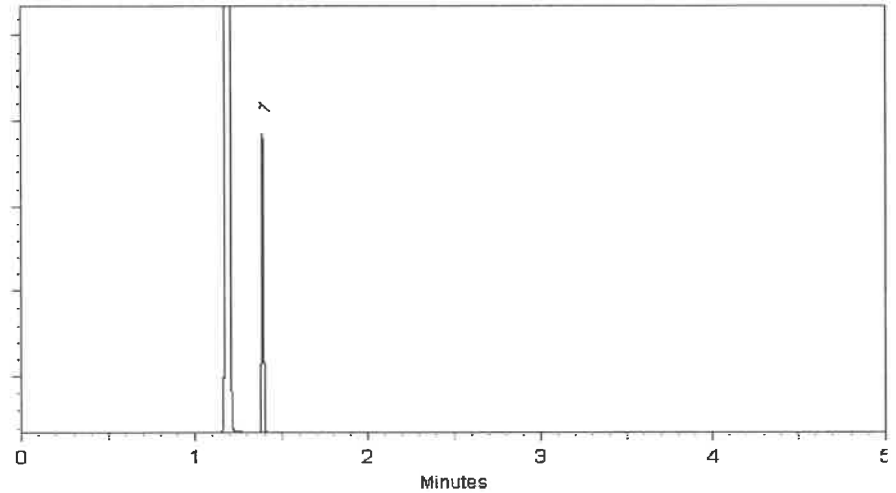
FID

Split Vent:

100 mL/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
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Tel: 1-814-353-1300
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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. : 33913 **Lot No.:** A0201976
Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

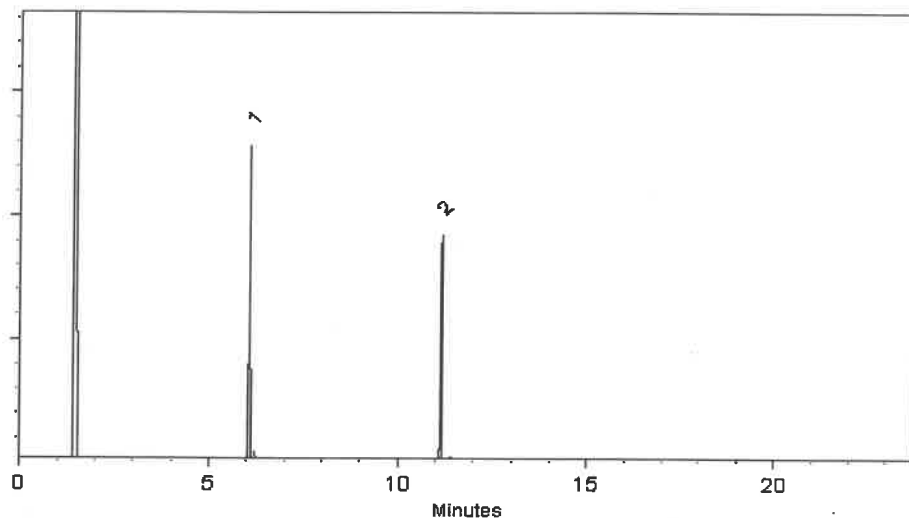
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

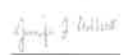


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Santa Rosa, CA 95403

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by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:	
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL	
Compound			CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane			123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff

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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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:	
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL	
Compound			CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane			123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Melissa Workoff
Chemist

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listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓ } 03/18/24
512206 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

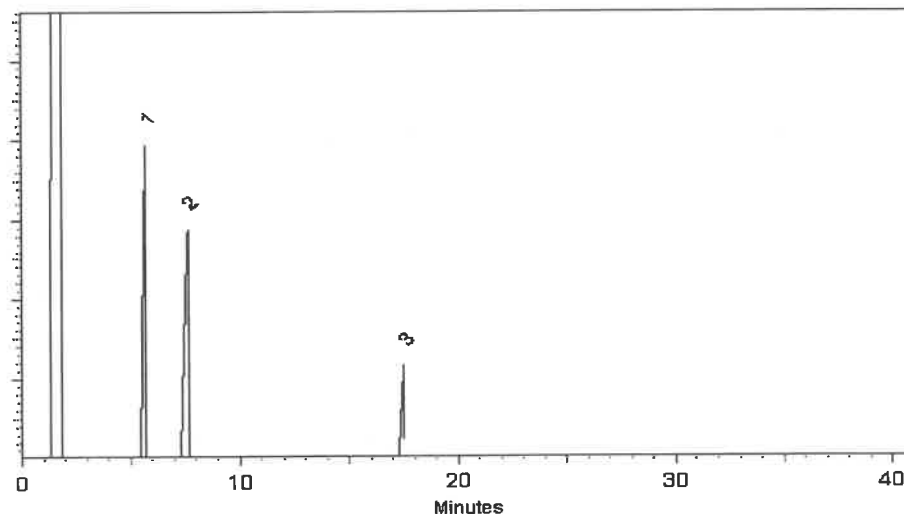
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope S. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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CERTIFIED REFERENCE MATERIAL

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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

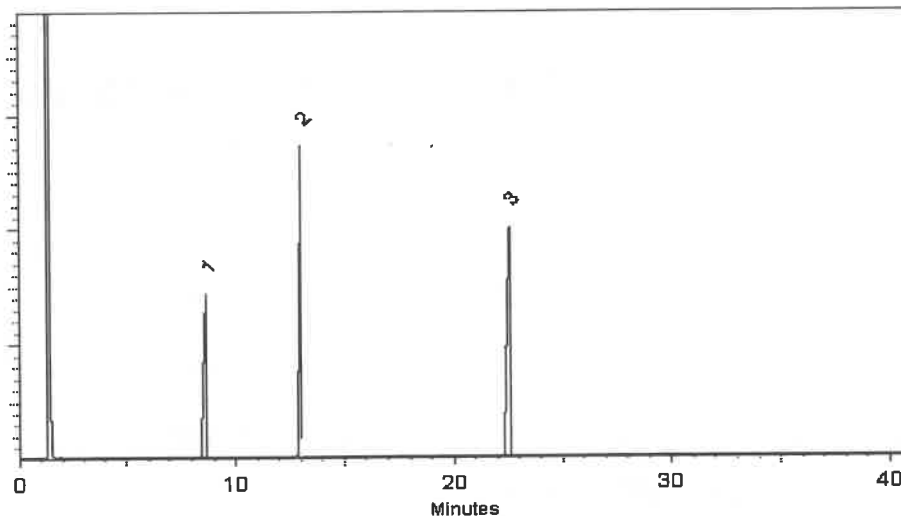
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015
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Certificate #FM 80397



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Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.

Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value



Certified By: _____

Kerry Kane
Chemist

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Concentration (correct for purity) and uncertainty (95% confidence) values
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Date Received: _____

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Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.

Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value



Certified By: _____

Kerry Kane
Chemist

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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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:

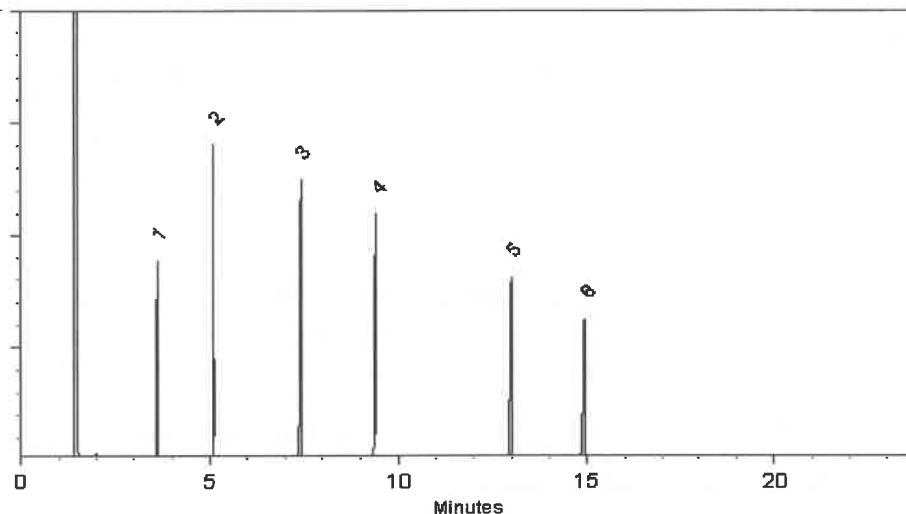
FID

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 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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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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gravimetric



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24


Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Catalog No. : 31615 **Lot No.:** A0212955

Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2027 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 µg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 µg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 µg/mL	+/- 44.6922

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12577 } RC
↓
S12579 } 8/2/24

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

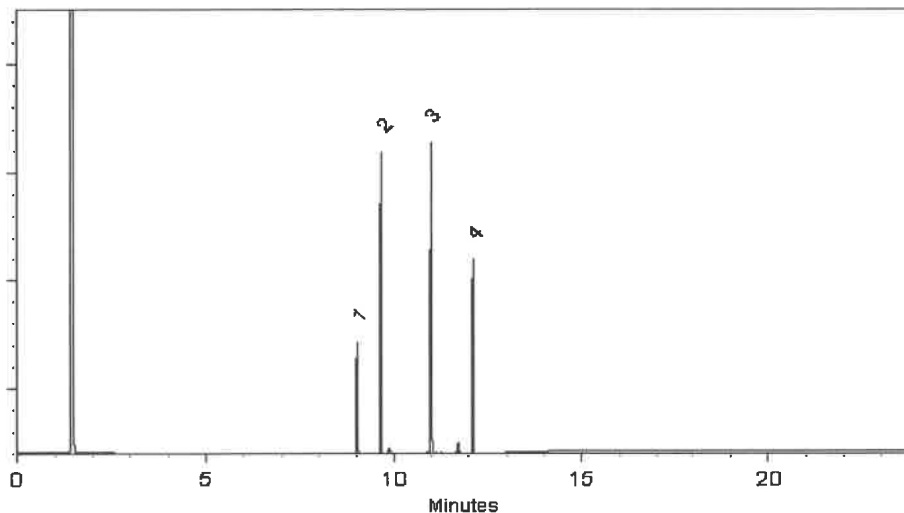
FID

Split Vent:

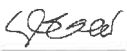
10 ml/min.

Inj. Vol

1µl

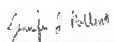


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024

Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645
↓
S12674 } AC
10/1/24



5580 Skylane Blvd
Santa Rosa, CA 95403

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Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

~~512280~~
↓
~~512284~~ } RCL
05/24/24

New Numbers Generated.

512790
↓
512794 } RCL
11/12/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By:

Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



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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.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963
↓
S12992 } AC
12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCKK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCKK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCKK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.



SHIPPING DOCUMENTS



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Certified Reference Materials

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info@phenova.com
www.phenova.com

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www.phenova.com/home/termsandsale

Packing List

Date	Order #
04/21/2025	333293



Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-1668	Net 30	ZCM-100	1500470	FedEx Collect 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-MET-SOIL	SOIL/HW Trace Metals	HW0425	7100-04
1	1	0	PT-CR6-SOIL	SOIL/HW Hexavalent Chromium	HW0425	7100-05B
1	1	0	PT-CN-SOIL	SOIL/HW Cyanide	HW0425	7100-06
1	1	0	PT-CORR-SOIL	SOIL/HW Corrosivity/pH	HW0425	7100-11
1	1	0	PT-FP-SOIL	SOIL/HW Flash Point	HW0425	7100-10
1	1	0	PT-AN-SOIL	SOIL/HW Anions	HW0425	7100-08
1	1	0	PT-NUT-SOIL	SOIL/HW Nutrients	HW0425	7100-09B
1	1	0	PT-SOL-SOIL	SOIL/HW Solids	HW0425	7100-31
1	1	0	PT-NO2-SOIL	SOIL/HW Nitrite as N	HW0425	7100-71
1	1	0	PT-GAS-SOIL	SOIL/HW Gasoline	HW0425	7100-96
1	1	0	PT-OGR-SOIL	SOIL/HW Oil and Grease	HW0425	7100-94
1	1	0	PT-VOA-SOIL	SOIL/HW Volatiles	HW0425	7100-12
1	1	0	PT-BNA-SOIL	SOIL/HW BNAs	HW0425	7100-13
1	1	0	PT-PEST-SOIL	SOIL/HW Pesticides	HW0425	7100-14
1	1	0	PT-CHLR-SOIL	SOIL/HW Chlordane	HW0425	7100-15
1	1	0	PT-TXP-SOIL	SOIL/HW Toxaphene	HW0425	7100-16
1	1	0	PT-PCB-SOIL	SOIL/HW PCBs	HW0425	7100-17
1	1	0	PT-PCBO-SOIL	SOIL/HW PCBs in Oil	HW0425	7100-88
1	1	0	PT-HERB-SOIL	SOIL/HW Herbicides	HW0425	7100-18
1	1	0	PT-PAH-SOIL	SOIL/HW PAHs	HW0425	7100-22
1	1	0	PT-TRIAZINE-SOIL	SOIL/HW Triazine Pesticides	HW0425	7100-106
1	1	0	PT-NJEPH-SOIL	NJ EPH in SOIL	HW0425	7100-105



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Packing List

Date	Order #
04/25/2025	337220



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Golden, CO 80403

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Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ

4/28/2025 9:40

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
CPR	Net 30	ZCM-100	1500470	FedEx Next Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-DIES-SOIL	SOIL/HW Diesel in Soil	HW0425	7100-100

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