

DATA PACKAGE
SEMI-VOLATILE ORGANICS

PROJECT NAME : RW5B FT WC - # 112G08005-WE13

TETRA TECH NUS, INC.
661 Andersen Drive
Suite 200
Pittsburgh, PA - 15220-2745
Phone No: 412-921-7090

ORDER ID : Q1040
ATTENTION : Ernie Wu



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q1040

Project ID : RW5B FT WC - # 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q1040-01
Q1040-02
Q1040-03

Client Sample Number

RW5-SP100-20250108
RW5-SP201-20250108
RW5-SP303-20250108

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 :

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 9:47 am, Jan 22, 2025

Date: 1/20/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: RW5B FT WC - # 112G08005-WE13

Project Manager: Ernie Wu

Chemtech Project # Q1040

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

3 Water samples were received on 01/09/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Metals Group4 and SVOC-SIMGroup1. This data package contains results for SVOC-SIMGroup1.

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for PB166005BL [2-Fluorobiphenyl - 111%, Nitrobenzene-d5 - 123%], PB166005BS [2-Fluorobiphenyl - 119%, Nitrobenzene-d5 - 126%], PB166005BSD [2-Fluorobiphenyl - 118%, Nitrobenzene-d5 - 124%], RW5-SP100-20250108 [2-Fluorobiphenyl - 111%, Nitrobenzene-d5 - 114%], RW5-SP100-20250108DL [2-Fluorobiphenyl - 125%, Nitrobenzene-d5 - 147%, Terphenyl-d14 - 154%], RW5-SP201-20250108 [2-Fluorobiphenyl - 110%, Nitrobenzene-d5 - 114%] and RW5-SP303-20250108 [2-Fluorobiphenyl - 108%], The failure surrogates not associated with the client parameters list, therefore no corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

Sample RW5-SP100-20250108 was diluted due to high concentration.

E. Additional Comments:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).”

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

The not QT review data is reported in the Miscellaneous.

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

F. Manual Integration Comments:

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

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

Signature_____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 9:48 am, Jan 22, 2025

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

CHEMTECH PROJECT NUMBER: Q1040

MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:			✓
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. The Surrogate recoveries met the acceptable criteria except for PB166005BL [2- Fluorobiphenyl - 111%, Nitrobenzene-d5 - 123%], PB166005BS [2-Fluorobiphenyl - 119%, Nitrobenzene-d5 - 126%], PB166005BSD [2-Fluorobiphenyl - 118%, Nitrobenzene-d5 - 124%], RW5-SP100-20250108 [2-Fluorobiphenyl - 111%, Nitrobenzene-d5 - 114%], RW5-SP100-20250108DL [2-Fluorobiphenyl - 125%, Nitrobenzene-d5 - 147%, Terphenyl-d14 - 154%], RW5-SP201-20250108 [2- Fluorobiphenyl - 110%, Nitrobenzene-d5 - 114%] and RW5-SP303-20250108 [2- Fluorobiphenyl - 108%], The failure surrogates not associated with the client parameters list, therefore no corrective action was taken.			✓

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

		NA	NO	YES
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples .			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).”
Sample RW5-SP100-20250108 was diluted due to high concentration.

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

The not QT review data is reported in the Miscellaneous.

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

APPROVED

QA REVIEW

By *Nimisha Pandya, QA/QC Supervisor* at 9:48 am, Jan 22, 2025

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1040

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: MOHAMMAD AHMED

Date: 01/20/2025

LAB CHRONICLE

OrderID:	Q1040	OrderDate:	1/9/2025 10:13:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	RW5B FT WC - # 112G08005-WE13
Contact:	Ernie Wu	Location:	N41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1040-01	RW5-SP100-20250108	Water			01/08/25			01/09/25
			SVOC-SIMGroup1	8270-Modified		01/10/25	01/10/25	
Q1040-01DL	RW5-SP100-20250108DL	Water			01/08/25			01/09/25
			SVOC-SIMGroup1	8270-Modified		01/10/25	01/13/25	
Q1040-02	RW5-SP201-20250108	Water			01/08/25			01/09/25
			SVOC-SIMGroup1	8270-Modified		01/10/25	01/10/25	
Q1040-03	RW5-SP303-20250108	Water			01/08/25			01/09/25
			SVOC-SIMGroup1	8270-Modified		01/10/25	01/10/25	



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Fax : 908 789 8922

Hit Summary Sheet SW-846

SDG No.: Q1040

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : RW5-SP100-20250108								
Q1040-01	RW5-SP100-20250108	WATER	1,4-Dioxane	9.600	E	0.07	0.2	0.2 ug/L
			Total Svoc :	9.60				
			Total Concentration:	9.60				
Client ID : RW5-SP100-20250108DL								
Q1040-01DL	RW5-SP100-20250108DI	WATER	1,4-Dioxane	10.200	D	0.34	1	1 ug/L
			Total Svoc :	10.20				
			Total Concentration:	10.20				



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q1040

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB166005BL	PB166005BL	2-Methylnaphthalene-d10	0.4	0.46	114		30	150
		Fluoranthene-d10	0.4	0.48	119		30	150
		Nitrobenzene-d5	0.4	0.49	123	*	55	111
		2-Fluorobiphenyl	0.4	0.45	111	*	53	106
		Terphenyl-d14	0.4	0.48	120		58	132
PB166005BS	PB166005BS	2-Methylnaphthalene-d10	0.4	0.47	116		30	150
		Fluoranthene-d10	0.4	0.45	111		30	150
		Nitrobenzene-d5	0.4	0.50	126	*	55	111
		2-Fluorobiphenyl	0.4	0.48	119	*	53	106
		Terphenyl-d14	0.4	0.48	120		58	132
PB166005BSD	PB166005BSD	2-Methylnaphthalene-d10	0.4	0.48	119		30	150
		Fluoranthene-d10	0.4	0.45	113		30	150
		Nitrobenzene-d5	0.4	0.50	124	*	55	111
		2-Fluorobiphenyl	0.4	0.47	118	*	53	106
		Terphenyl-d14	0.4	0.48	119		58	132
Q1040-01	RW5-SP100-20250108	2-Methylnaphthalene-d10	0.4	0.42	105		30	150
		Fluoranthene-d10	0.4	0.47	118		30	150
		Nitrobenzene-d5	0.4	0.46	114	*	55	111
		2-Fluorobiphenyl	0.4	0.44	111	*	53	106
		Terphenyl-d14	0.4	0.52	131		58	132
Q1040-01DL	RW5-SP100-20250108DL	2-Methylnaphthalene-d10	0.4	0.50	125		30	150
		Fluoranthene-d10	0.4	0.55	136		30	150
		Nitrobenzene-d5	0.4	0.59	147	*	55	111
		2-Fluorobiphenyl	0.4	0.50	125	*	53	106
		Terphenyl-d14	0.4	0.62	154	*	58	132
Q1040-02	RW5-SP201-20250108	2-Methylnaphthalene-d10	0.4	0.42	105		30	150
		Fluoranthene-d10	0.4	0.44	110		30	150
		Nitrobenzene-d5	0.4	0.46	114	*	55	111
		2-Fluorobiphenyl	0.4	0.44	110	*	53	106
		Terphenyl-d14	0.4	0.47	117		58	132
Q1040-03	RW5-SP303-20250108	2-Methylnaphthalene-d10	0.4	0.41	102		30	150
		Fluoranthene-d10	0.4	0.47	117		30	150
		Nitrobenzene-d5	0.4	0.43	107		55	111
		2-Fluorobiphenyl	0.4	0.43	108	*	53	106
		Terphenyl-d14	0.4	0.52	129		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1040

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN035911.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB166005BSD	1,4-Dioxane	0.4	0.40	ug/L	100	2			70	130	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1040

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN035917.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB166005BS	1,4-Dioxane	0.4	0.41	ug/L	103				70	130	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166005BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1040

SAS No.: Q1040 SDG NO.: Q1040

Lab File ID: BN035915.D

Lab Sample ID: PB166005BL

Instrument ID: BNA_N

Date Extracted: 01/10/2025

Matrix: (soil/water) Water

Date Analyzed: 01/13/2025

Level: (low/med) LOW

Time Analyzed: 10:44

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166005BS	PB166005BS	BN035917.D	01/13/2025
PB166005BSD	PB166005BSD	BN035911.D	01/10/2025
RW5-SP100-20250108	Q1040-01	BN035906.D	01/10/2025
RW5-SP201-20250108	Q1040-02	BN035907.D	01/10/2025
RW5-SP303-20250108	Q1040-03	BN035908.D	01/10/2025

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q1040SDG NO.: Q1040Lab File ID: BN035870.DDFTPP Injection Date: 01/02/2025Instrument ID: BNA_NDFTPP Injection Time: 10:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.9
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	39
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	43.4
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.2
275	10.0 - 60.0% of mass 198	25.6
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	9.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.1 (19.3) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN035871.D	01/02/2025	11:28
SSTDICC0.2	SSTDICC0.2	BN035872.D	01/02/2025	12:04
SSTDICCC0.4	SSTDICCC0.4	BN035873.D	01/02/2025	12:40
SSTDICC0.8	SSTDICC0.8	BN035874.D	01/02/2025	13:16
SSTDICC1.6	SSTDICC1.6	BN035875.D	01/02/2025	13:52
SSTDICC3.2	SSTDICC3.2	BN035876.D	01/02/2025	14:28
SSTDICC5.0	SSTDICC5.0	BN035877.D	01/02/2025	15:04



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q1040SDG NO.: Q1040Lab File ID: BN035903.DDFTPP Injection Date: 01/10/2025Instrument ID: BNA_NDFTPP Injection Time: 12:38

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	50.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	46.1
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	47.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	25.4
365	Greater than 1% of mass 198	4
441	Present, but less than mass 443	8.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.3 (19.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN035904.D	01/10/2025	13:17
RW5-SP100-20250108	Q1040-01	BN035906.D	01/10/2025	17:45
RW5-SP201-20250108	Q1040-02	BN035907.D	01/10/2025	18:21
RW5-SP303-20250108	Q1040-03	BN035908.D	01/10/2025	18:56
PB166005BSD	PB166005BSD	BN035911.D	01/10/2025	20:44
SSTDCCC0.4EC	SSTDCCC0.4	BN035912.D	01/10/2025	21:20



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q1040 SDG NO.: Q1040Lab File ID: BN035913.DDFTPP Injection Date: 01/13/2025Instrument ID: BNA_NDFTPP Injection Time: 09:28

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	52
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	46.2
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	47.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.1
275	10.0 - 60.0% of mass 198	24.6
365	Greater than 1% of mass 198	4.2
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	11.2 (18.8) 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	BN035914.D	01/13/2025	10:07
PB166005BL	PB166005BL	BN035915.D	01/13/2025	10:44
RW5-SP100-20250108DL	Q1040-01DL	BN035916.D	01/13/2025	11:20
PB166005BS	PB166005BS	BN035917.D	01/13/2025	11:56
SSTDCCC0.4EC	SSTDCCC0.4	BN035918.D	01/13/2025	12:37

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1040 SAS No.: Q1040 SDG NO.: Q1040

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 01/10/2025

Lab File ID: BN035904.D Time Analyzed: 13:17

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	1524	7.832	2846	10.62	1400	14.46
UPPER LIMIT	3048	8.332	5692	11.122	2800	14.963
LOWER LIMIT	762	7.332	1423	10.122	700	13.963
EPA SAMPLE NO.						
01 RW5-SP100-20250108	1117	7.83	2161	10.62	1003	14.46
02 RW5-SP201-20250108	1151	7.83	2169	10.62	1026	14.46
03 RW5-SP303-20250108	888	7.83	1708	10.62	800	14.46
04 PB166005BSD	848	7.83	1569	10.62	773	14.46

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.: Q1040 SAS No.: Q1040 SDG NO.: Q1040

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 01/10/2025

Lab File ID: BN035904.D Time Analyzed: 13:17

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	2590	17.199	2090	21.385	2349	23.684
UPPER LIMIT	5180	17.699	4180	21.885	4698	24.184
LOWER LIMIT	1295	16.699	1045	20.885	1174.5	23.184
EPA SAMPLE NO.						
01 RW5-SP100-20250108	1938	17.20	1723	21.38	1969	23.68
02 RW5-SP201-20250108	1977	17.20	1700	21.38	1984	23.68
03 RW5-SP303-20250108	1628	17.21	1388	21.39	1542	23.69
04 PB166005BSD	1389	17.20	1178	21.39	1390	23.69

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.: Q1040 SAS No.: Q1040 SDG NO.: Q1040

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 01/13/2025

Lab File ID: BN035914.D Time Analyzed: 10:07

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	1245	7.832	2271	10.62	1028	14.46
UPPER LIMIT	2490	8.332	4542	11.122	2056	14.963
LOWER LIMIT	622.5	7.332	1135.5	10.122	514	13.963
EPA SAMPLE NO.						
01 PB166005BL	1369	7.83	2542	10.62	1264	14.46
02 RW5-SP100-20250108DL	870	7.83	1614	10.62	789	14.46
03 PB166005BS	934	7.83	1774	10.62	843	14.46

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.: Q1040 SAS No.: Q1040 SDG NO.: Q1040

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 01/13/2025

Lab File ID: BN035914.D Time Analyzed: 10:07

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	1955	17.199	1568	21.376	1851	23.681
UPPER LIMIT	3910	17.699	3136	21.876	3702	24.181
LOWER LIMIT	977.5	16.699	784	20.876	925.5	23.181
EPA SAMPLE NO.						
01 PB166005BL	2501	17.21	2263	21.38	2548	23.69
02 RW5-SP100-20250108DL	1568	17.20	1407	21.38	1618	23.68
03 PB166005BS	1498	17.20	1254	21.38	1525	23.68

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/08/25
Project:	RW5B FT WC - # 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	RW5-SP100-20250108	SDG No.:	Q1040
Lab Sample ID:	Q1040-01	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035906.D	1	01/10/25 08:10	01/10/25 17:45	PB166005

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	9.60	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.42		30 - 150		105%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.47		30 - 150		118%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.46	*	55 - 111		114%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.44	*	53 - 106		111%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.52		58 - 132		131%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1120		7.832			
1146-65-2	Naphthalene-d8	2160		10.622			
15067-26-2	Acenaphthene-d10	1000		14.463			
1517-22-2	Phenanthrene-d10	1940		17.199			
1719-03-5	Chrysene-d12	1720		21.376			
1520-96-3	Perylene-d12	1970		23.681			

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\BN011025\
 Data File : BN035906.D
 Acq On : 10 Jan 2025 17:45
 Operator : RC/JU
 Sample : Q1040-01
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW5-SP100-20250108

Quant Time: Jan 10 21:46:27 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

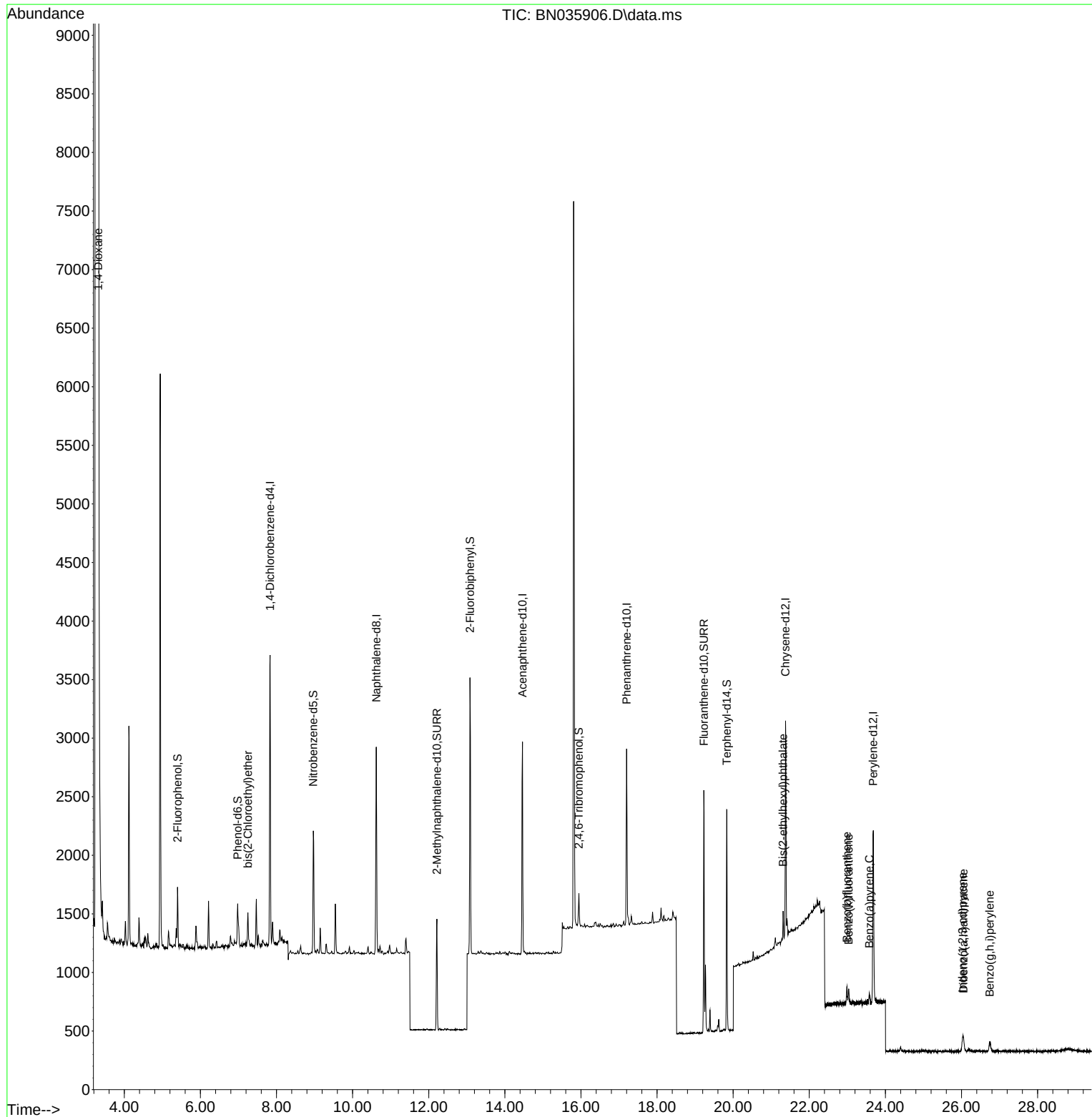
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.832	152	1117	0.400	ng	0.00
7) Naphthalene-d8	10.622	136	2161	0.400	ng	0.00
13) Acenaphthene-d10	14.463	164	1003	0.400	ng	0.00
19) Phenanthrene-d10	17.199	188	1938	0.400	ng	#-0.01
29) Chrysene-d12	21.376	240	1723	0.400	ng	0.00
35) Perylene-d12	23.681	264	1969	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.398	112	369	0.135	ng	-0.01
5) Phenol-d6	6.979	99	263	0.077	ng	0.00
8) Nitrobenzene-d5	8.967	82	783	0.458	ng	-0.01
11) 2-Methylnaphthalene-d10	12.213	152	1221	0.422	ng	0.00
14) 2,4,6-Tribromophenol	15.945	330	147	0.305	ng	-0.01
15) 2-Fluorobiphenyl	13.084	172	1949	0.443	ng	0.00
27) Fluoranthene-d10	19.230	212	2268	0.471	ng	0.00
31) Terphenyl-d14	19.834	244	1799	0.524	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.318	88	10532	9.493	ng	96
6) bis(2-Chloroethyl)ether	7.247	93	162	0.062	ng	# 76
34) Bis(2-ethylhexyl)phtha...	21.313	149	220	0.089	ng	# 93
36) Indeno(1,2,3-cd)pyrene	26.028	276	201	0.026	ng	# 66
37) Benzo(b)fluoranthene	22.988	252	201	0.030	ng	# 14
38) Benzo(k)fluoranthene	23.034	252	171	0.026	ng	# 11
39) Benzo(a)pyrene	23.578	252	143	0.024	ng	# 1
40) Dibenzo(a,h)anthracene	26.055	278	144	0.023	ng	# 5
41) Benzo(g,h,i)perylene	26.742	276	173	0.025	ng	# 25

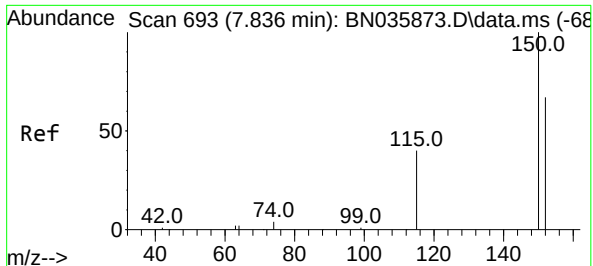
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011025\
Data File : BN035906.D
Acq On : 10 Jan 2025 17:45
Operator : RC/JU
Sample : Q1040-01
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250108

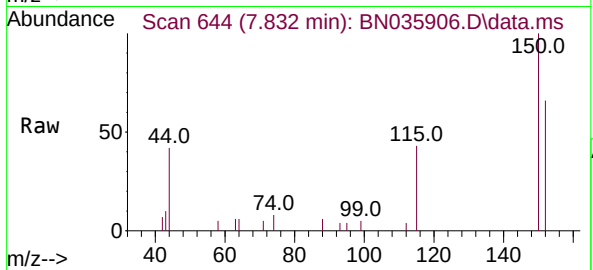
Quant Time: Jan 10 21:46:27 2025
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration



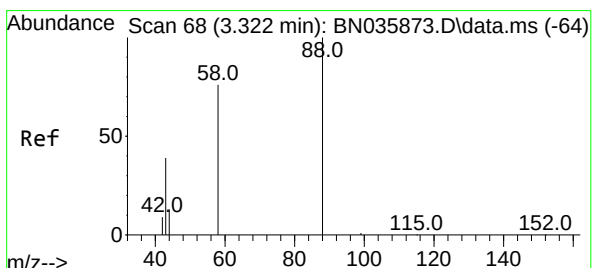
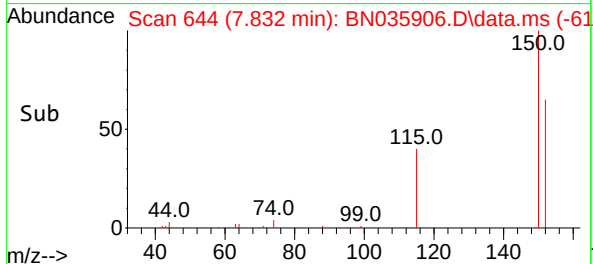
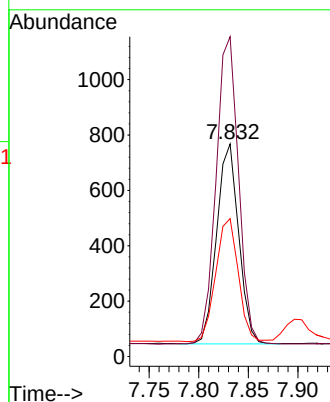


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.832 min Scan# 64
Delta R.T. -0.004 min
Lab File: BN035906.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250108

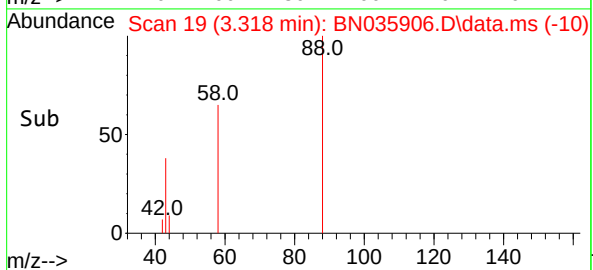
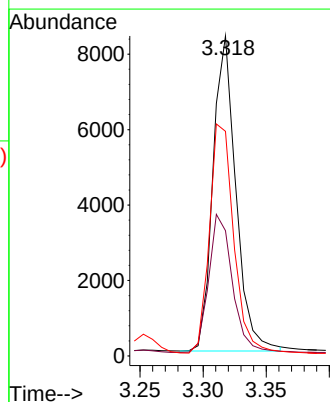
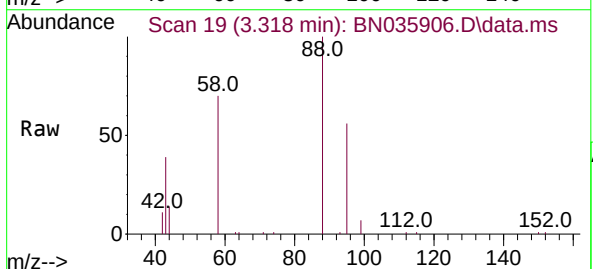


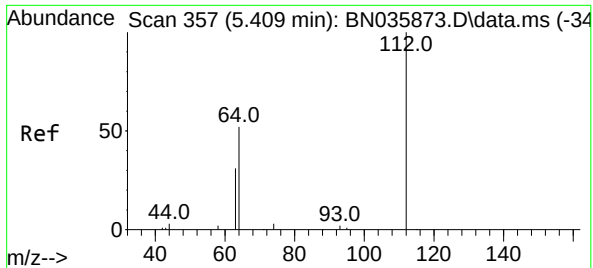
Tgt Ion:152 Resp: 1117
Ion Ratio Lower Upper
152 100
150 150.4 117.8 176.6
115 64.8 51.0 76.4



#2
1,4-Dioxane
Concen: 9.493 ng
RT: 3.318 min Scan# 19
Delta R.T. -0.004 min
Lab File: BN035906.D
Acq: 10 Jan 2025 17:45

Tgt Ion: 88 Resp: 10532
Ion Ratio Lower Upper
88 100
43 45.4 32.7 49.1
58 77.2 63.0 94.4

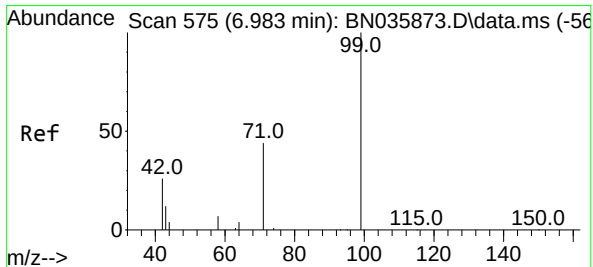
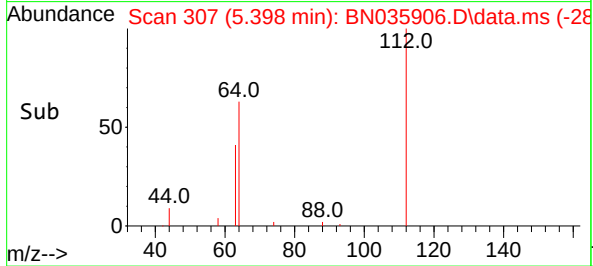
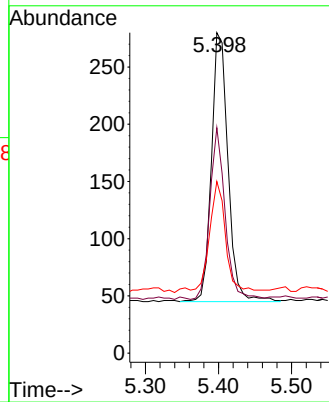
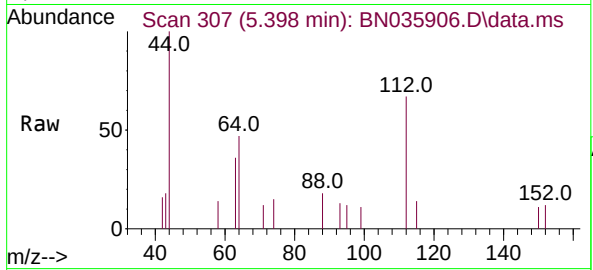




#4
2-Fluorophenol
Concen: 0.135 ng
RT: 5.398 min Scan# 307
Delta R.T. -0.011 min
Lab File: BN035906.D
Acq: 10 Jan 2025 17:45

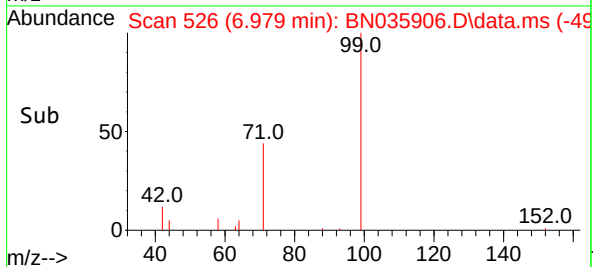
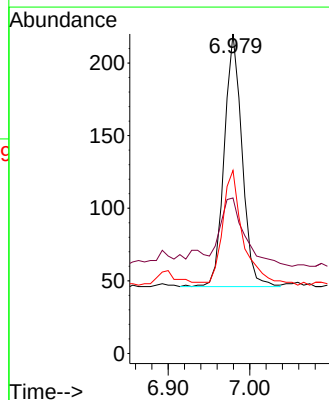
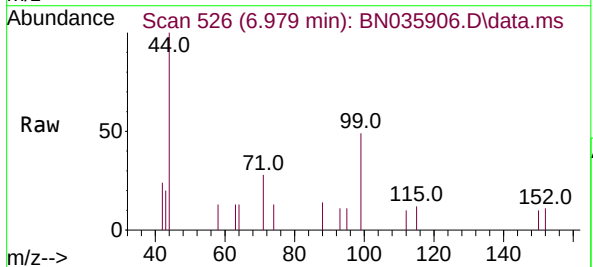
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250108

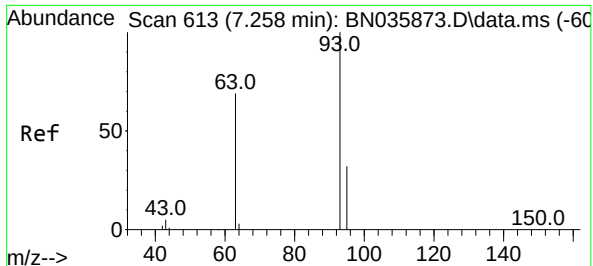
Tgt Ion:	112	Resp:	369
Ion	Ratio	Lower	Upper
112	100		
64	59.3	48.2	72.2
63	41.2	30.0	45.0



#5
Phenol-d6
Concen: 0.077 ng
RT: 6.979 min Scan# 526
Delta R.T. -0.004 min
Lab File: BN035906.D
Acq: 10 Jan 2025 17:45

Tgt Ion:	99	Resp:	263
Ion	Ratio	Lower	Upper
99	100		
42	37.3	23.5	35.3#
71	52.9	35.5	53.3

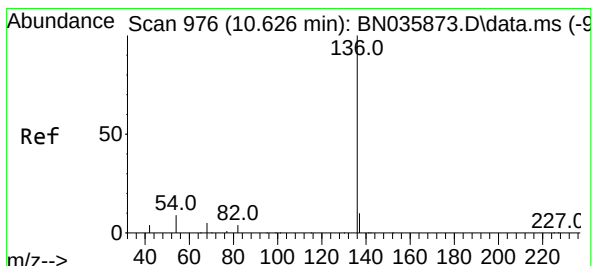
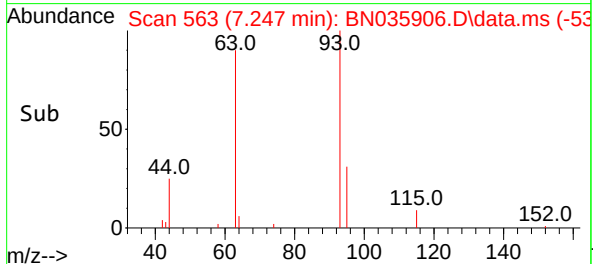
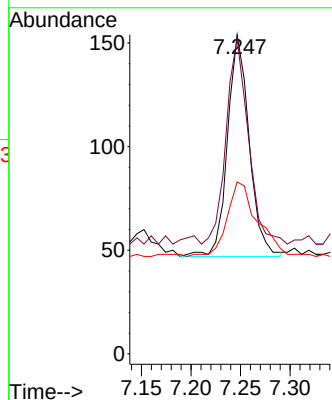
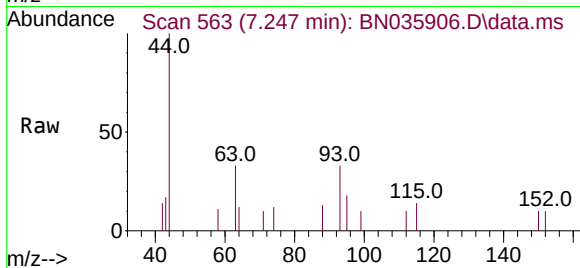




#6
bis(2-Chloroethyl)ether
Concen: 0.062 ng
RT: 7.247 min Scan# 501
Delta R.T. -0.011 min
Lab File: BN035906.D
Acq: 10 Jan 2025 17:45

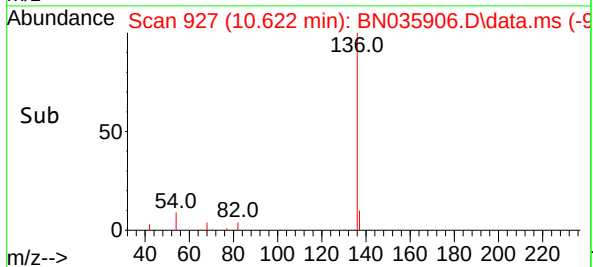
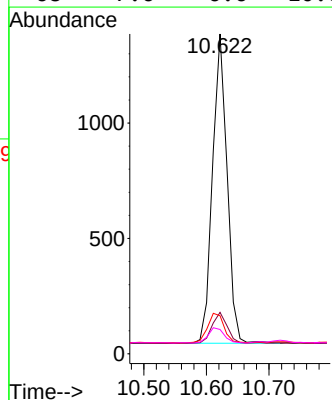
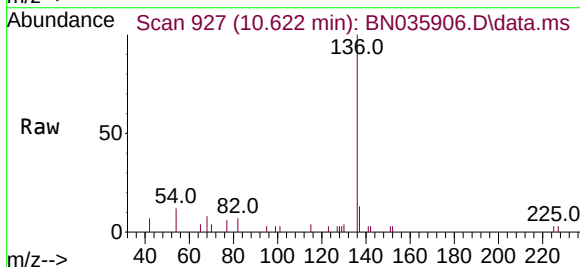
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250108

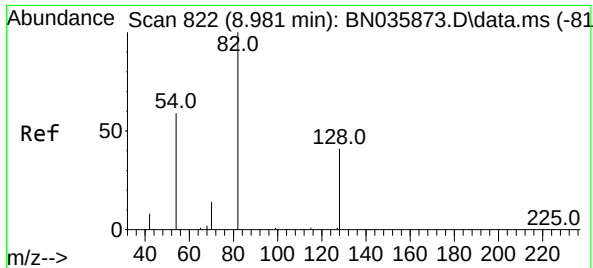
Tgt Ion:	93	Resp:	162
Ion	Ratio	Lower	Upper
93	100		
63	96.3	62.0	93.0#
95	48.1	25.5	38.3#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.622 min Scan# 927
Delta R.T. -0.004 min
Lab File: BN035906.D
Acq: 10 Jan 2025 17:45

Tgt Ion:	136	Resp:	2161
Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.6	15.8
54	11.9	9.8	14.6
68	7.6	6.6	10.0

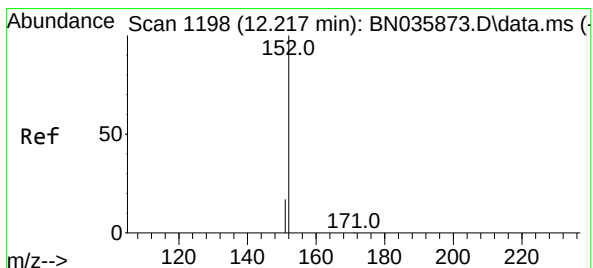
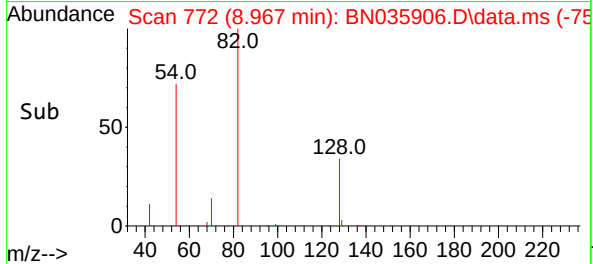
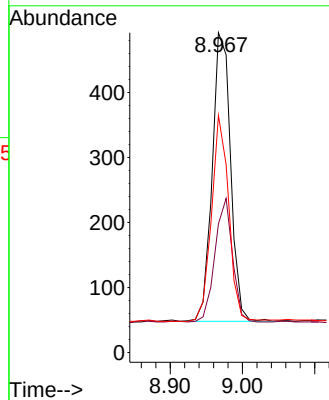
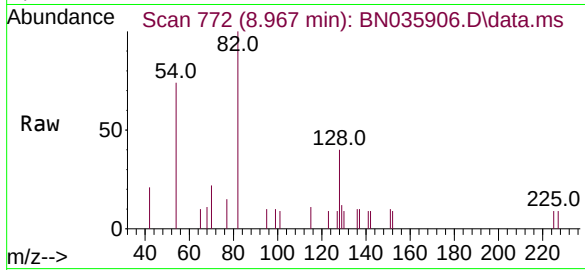




#8
Nitrobenzene-d5
Concen: 0.458 ng
RT: 8.967 min Scan# 71
Delta R.T. -0.015 min
Lab File: BN035906.D
Acq: 10 Jan 2025 17:45

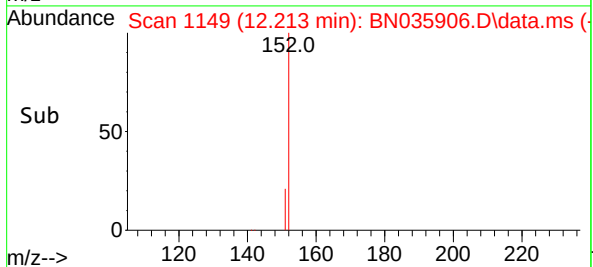
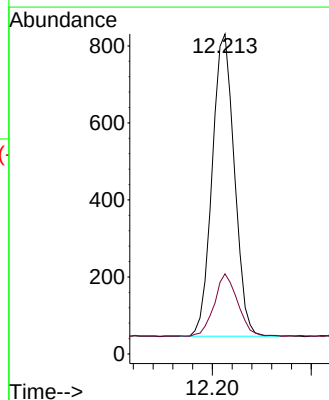
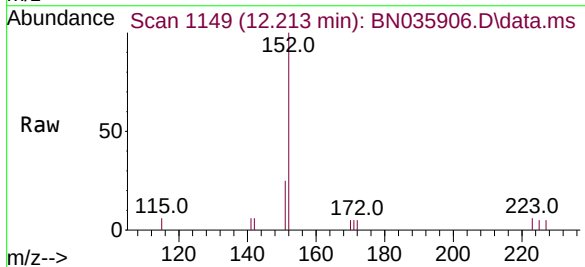
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250108

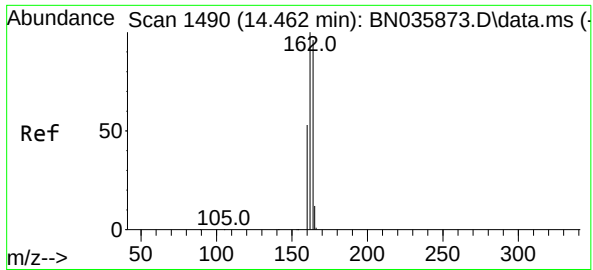
Tgt Ion:	82	Resp:	783
Ion	Ratio	Lower	Upper
82	100		
128	40.2	36.9	55.3
54	74.2	50.4	75.6



#11
2-Methylnaphthalene-d10
Concen: 0.422 ng
RT: 12.213 min Scan# 1149
Delta R.T. -0.004 min
Lab File: BN035906.D
Acq: 10 Jan 2025 17:45

Tgt Ion:	152	Resp:	1221
Ion	Ratio	Lower	Upper
152	100		
151	21.9	17.0	25.6

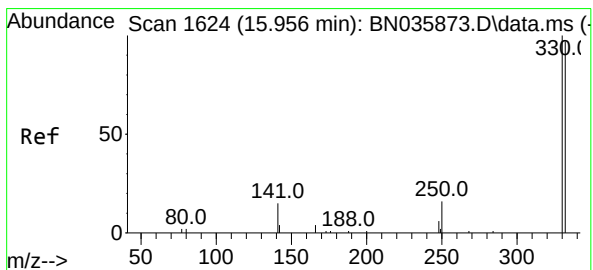
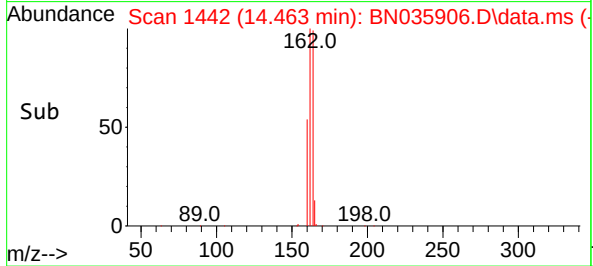
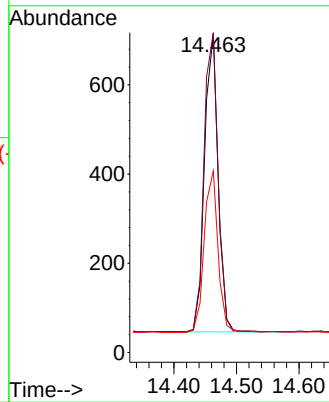
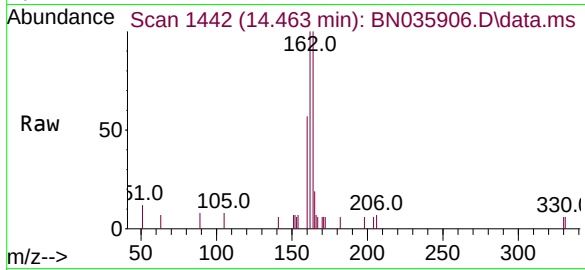




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.463 min Scan# 14
Delta R.T. 0.001 min
Lab File: BN035906.D
Acq: 10 Jan 2025 17:45

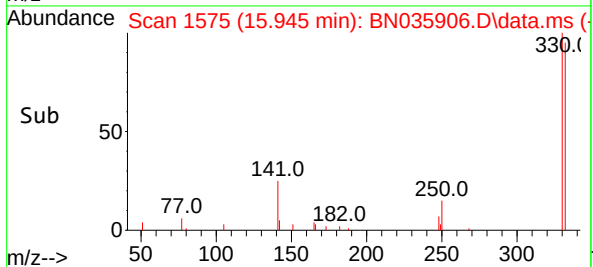
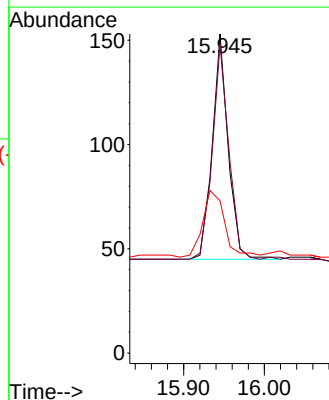
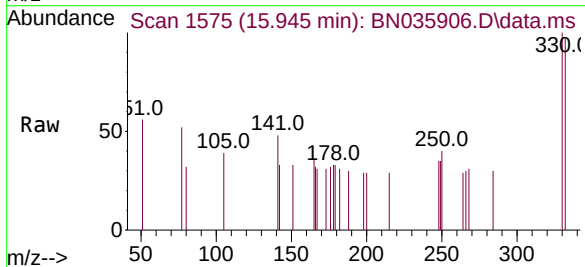
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250108

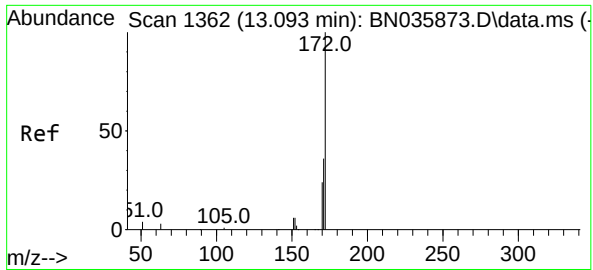
Tgt Ion:164 Resp: 1003
Ion Ratio Lower Upper
164 100
162 100.4 83.1 124.7
160 57.0 46.0 69.0



#14
2,4,6-Tribromophenol
Concen: 0.305 ng
RT: 15.945 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035906.D
Acq: 10 Jan 2025 17:45

Tgt Ion:330 Resp: 147
Ion Ratio Lower Upper
330 100
332 98.6 77.2 115.8
141 40.8 31.6 47.4

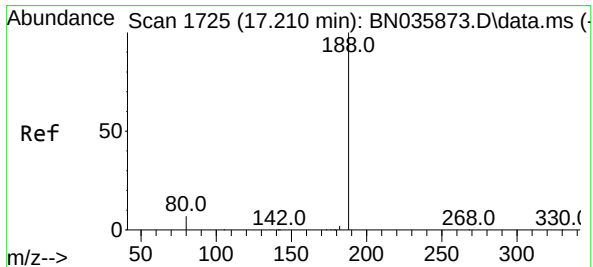
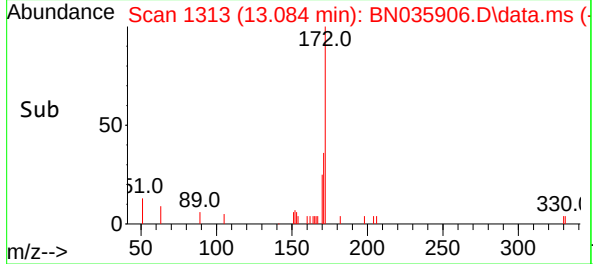
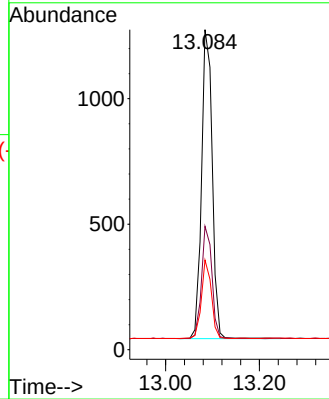
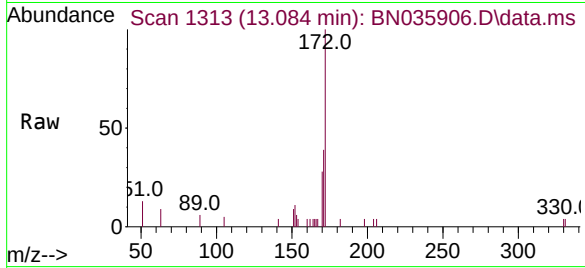




#15
2-Fluorobiphenyl
Concen: 0.443 ng
RT: 13.084 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN035906.D
Acq: 10 Jan 2025 17:45

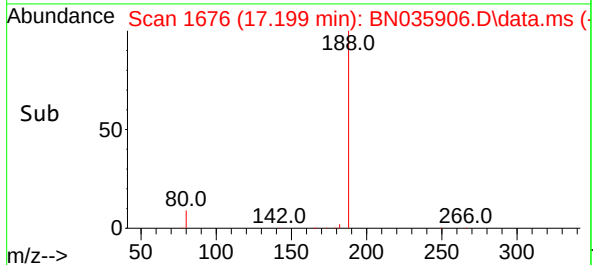
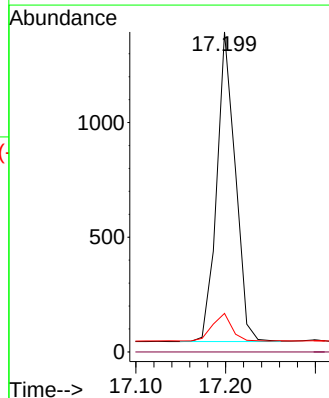
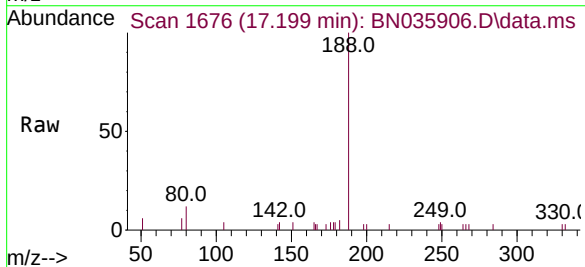
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250108

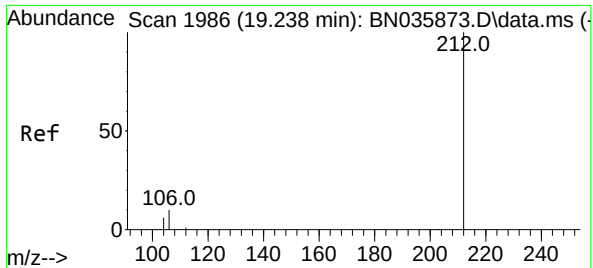
Tgt Ion:	172	Resp:	1949
Ion Ratio	Lower	Upper	
172	100		
171	38.6	30.5	45.7
170	28.0	20.8	31.2



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.199 min Scan# 1676
Delta R.T. -0.011 min
Lab File: BN035906.D
Acq: 10 Jan 2025 17:45

Tgt Ion:	188	Resp:	1938
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	12.0	7.3	10.9

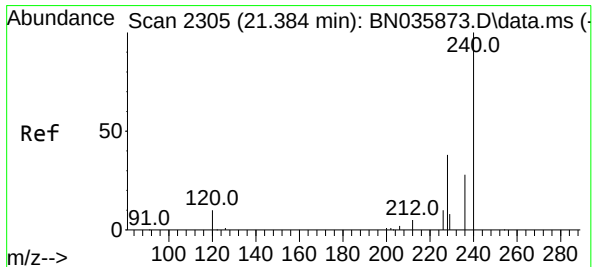
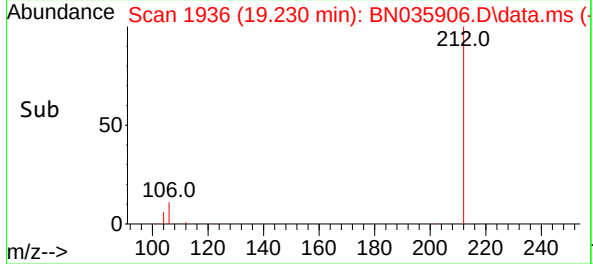
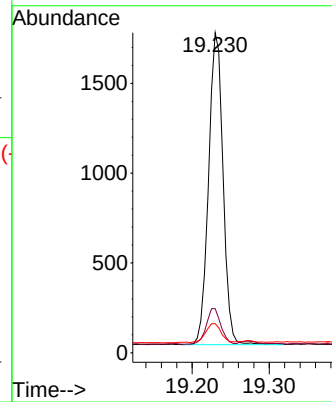
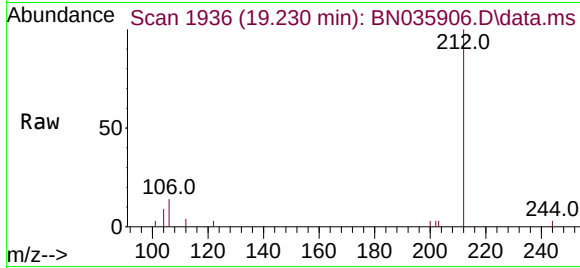




#27
Fluoranthene-d10
Concen: 0.471 ng
RT: 19.230 min Scan# 1986
Delta R.T. -0.008 min
Lab File: BN035906.D
Acq: 10 Jan 2025 17:45

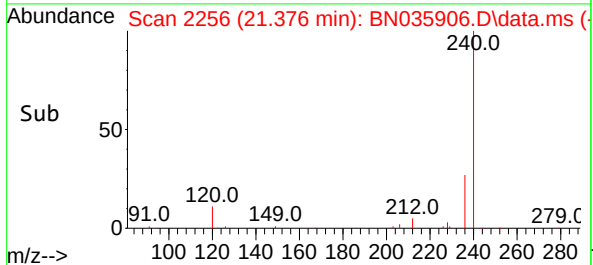
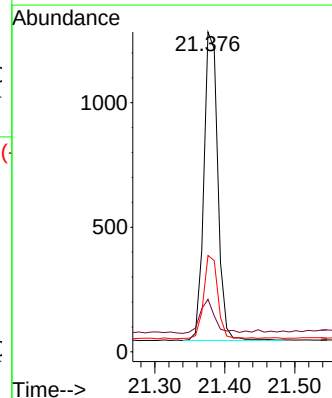
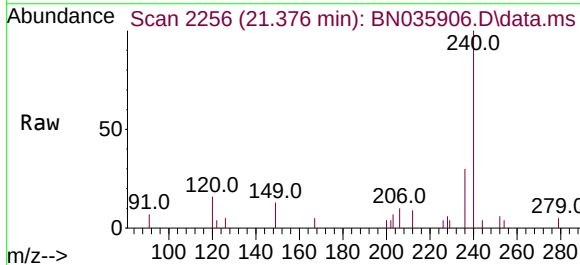
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250108

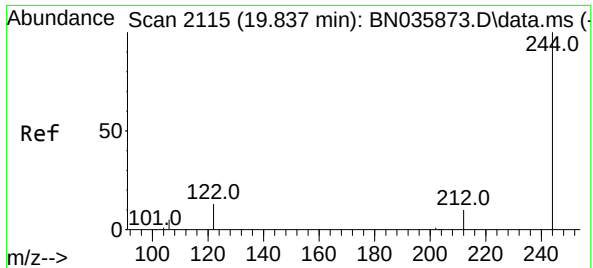
Tgt Ion:	212	Resp:	2268
Ion Ratio	Lower	Upper	
212	100		
106	11.4	9.0	13.6
104	6.7	5.4	8.2



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.376 min Scan# 2256
Delta R.T. -0.008 min
Lab File: BN035906.D
Acq: 10 Jan 2025 17:45

Tgt Ion:	240	Resp:	1723
Ion Ratio	Lower	Upper	
240	100		
120	16.4	11.1	16.7
236	30.1	24.6	36.8

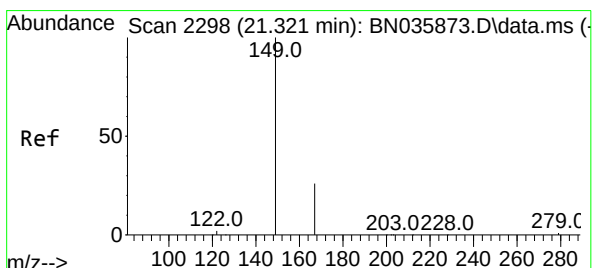
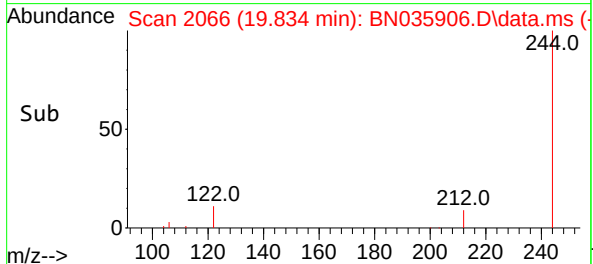
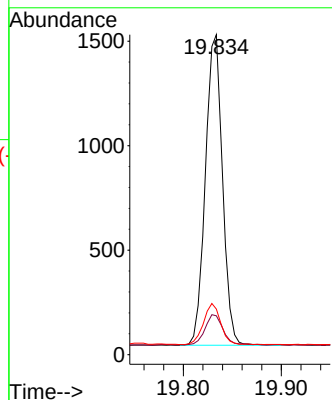
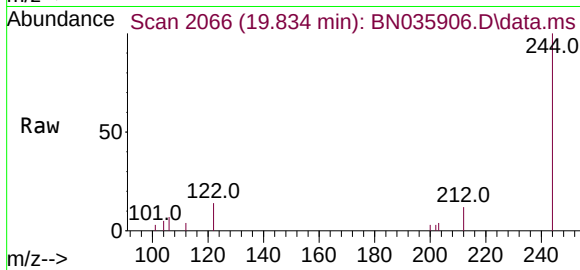




#31
Terphenyl-d14
Concen: 0.524 ng
RT: 19.834 min Scan# 2066
Delta R.T. -0.004 min
Lab File: BN035906.D
Acq: 10 Jan 2025 17:45

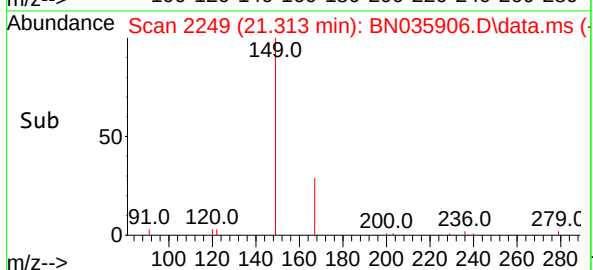
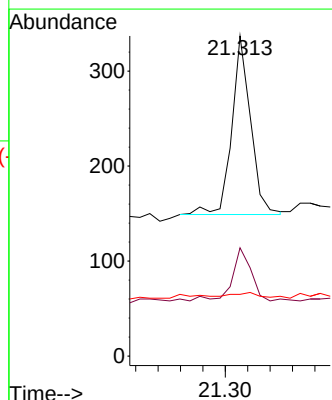
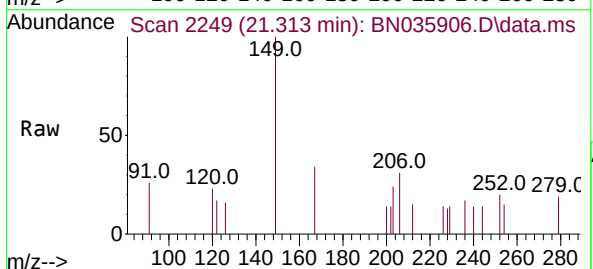
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250108

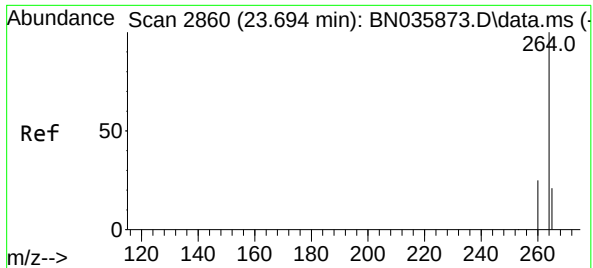
Tgt Ion:244	Resp:	1799
Ion	Ratio	Lower Upper
244	100	
212	12.1	10.1 15.1
122	14.2	12.2 18.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.089 ng
RT: 21.313 min Scan# 2249
Delta R.T. -0.008 min
Lab File: BN035906.D
Acq: 10 Jan 2025 17:45

Tgt Ion:149	Resp:	220
Ion	Ratio	Lower Upper
149	100	
167	30.5	21.4 32.0
279	2.7	3.0 4.6#

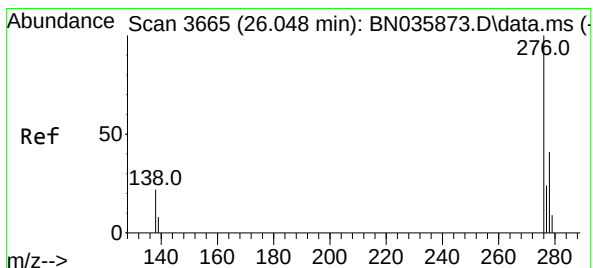
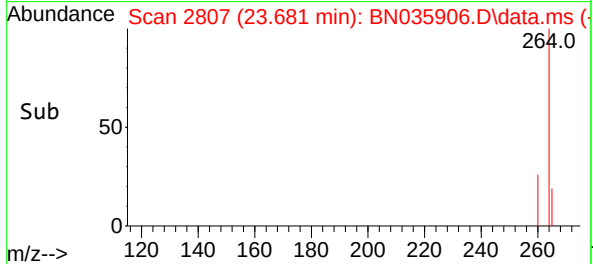
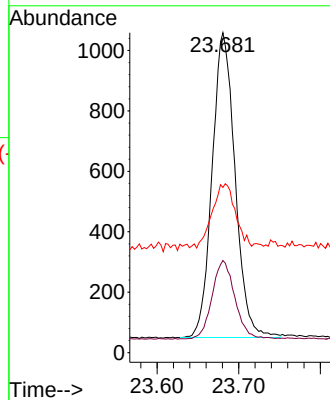
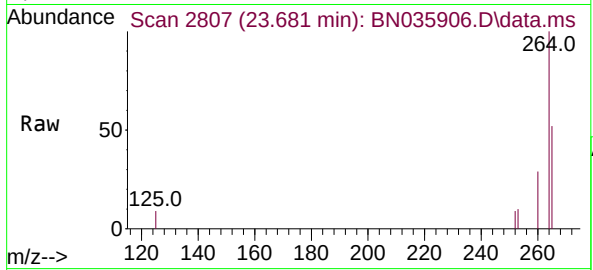




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.681 min Scan# 21
Delta R.T. -0.013 min
Lab File: BN035906.D
Acq: 10 Jan 2025 17:45

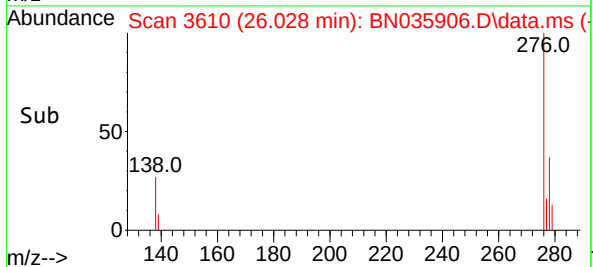
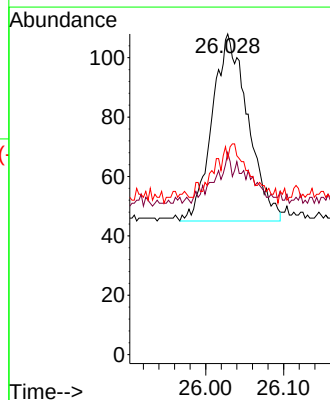
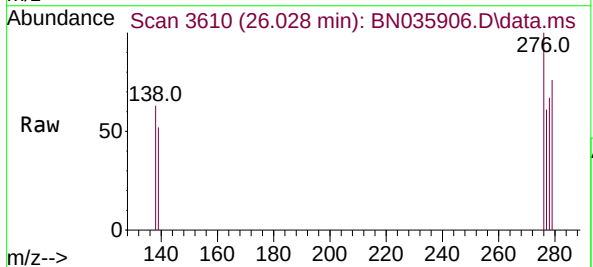
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250108

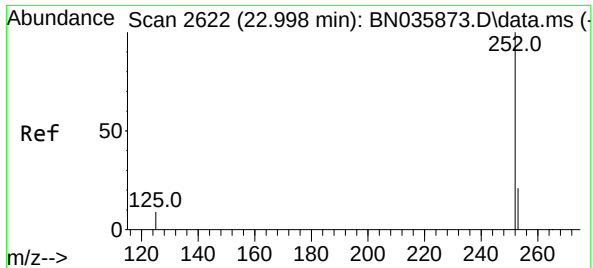
Tgt Ion:264 Resp: 1969
Ion Ratio Lower Upper
264 100
260 28.8 21.7 32.5
265 51.7 33.9 50.9#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.026 ng
RT: 26.028 min Scan# 3610
Delta R.T. -0.019 min
Lab File: BN035906.D
Acq: 10 Jan 2025 17:45

Tgt Ion:276 Resp: 201
Ion Ratio Lower Upper
276 100
138 2.0 18.9 28.3#
277 12.4 19.5 29.3#

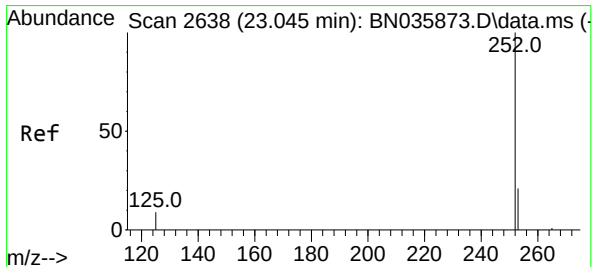
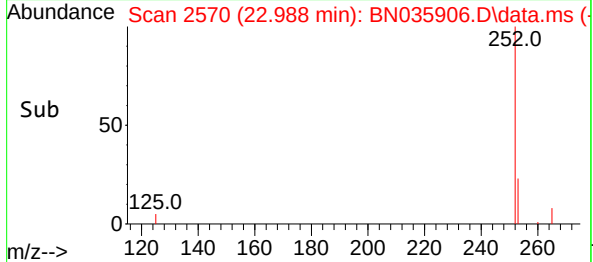
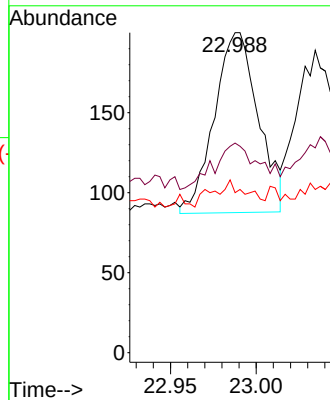
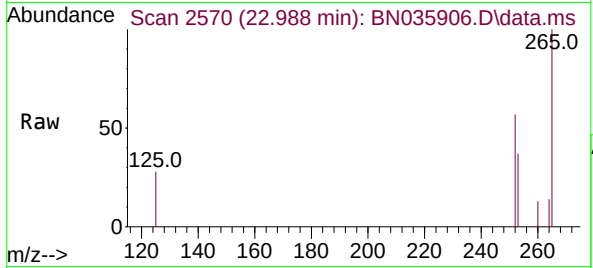




#37
Benzo(b)fluoranthene
Concen: 0.030 ng
RT: 22.988 min Scan# 21
Delta R.T. -0.011 min
Lab File: BN035906.D
Acq: 10 Jan 2025 17:45

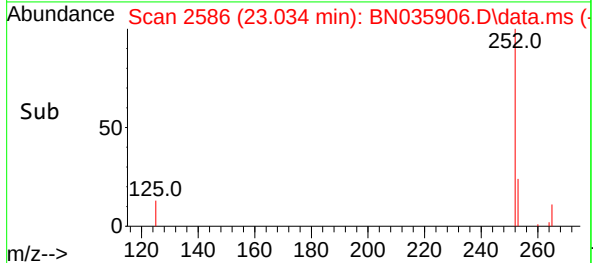
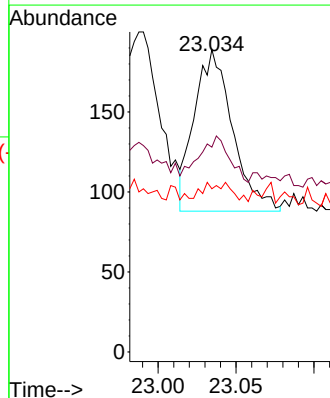
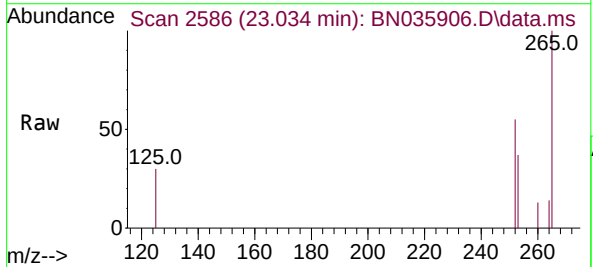
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250108

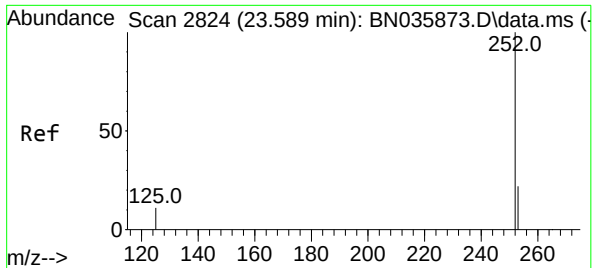
Tgt Ion:252 Resp: 201
Ion Ratio Lower Upper
252 100
253 65.5 20.1 30.1#
125 50.0 9.9 14.9#



#38
Benzo(k)fluoranthene
Concen: 0.026 ng
RT: 23.034 min Scan# 2586
Delta R.T. -0.011 min
Lab File: BN035906.D
Acq: 10 Jan 2025 17:45

Tgt Ion:252 Resp: 171
Ion Ratio Lower Upper
252 100
253 67.7 20.5 30.7#
125 54.0 10.6 16.0#





#39

Benzo(a)pyrene

Concen: 0.024 ng

RT: 23.578 min Scan# 21

Delta R.T. -0.011 min

Lab File: BN035906.D

Acq: 10 Jan 2025 17:45

Instrument :

BNA_N

ClientSampleId :

RW5-SP100-20250108

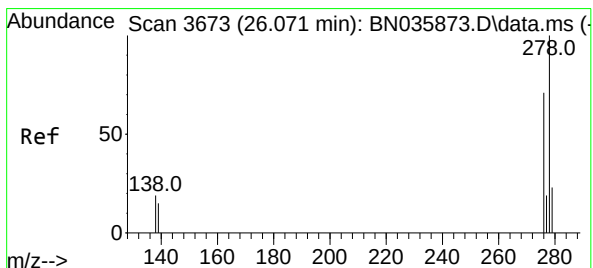
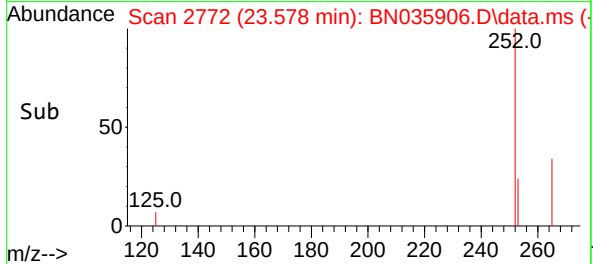
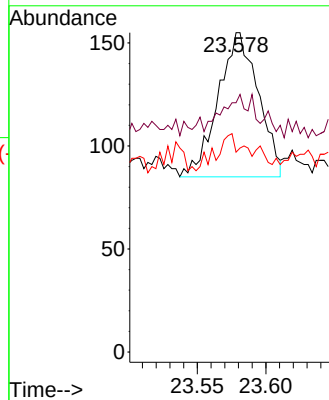
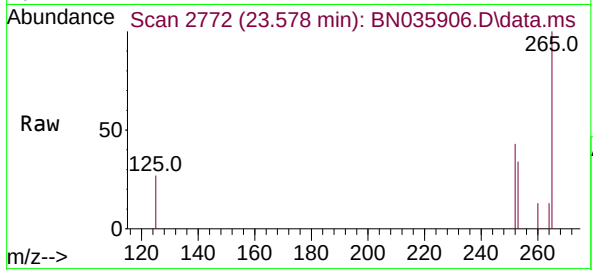
Tgt Ion:252 Resp: 143

Ion Ratio Lower Upper

252 100

253 78.1 21.5 32.3#

125 62.6 12.6 19.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.023 ng

RT: 26.055 min Scan# 3619

Delta R.T. -0.016 min

Lab File: BN035906.D

Acq: 10 Jan 2025 17:45

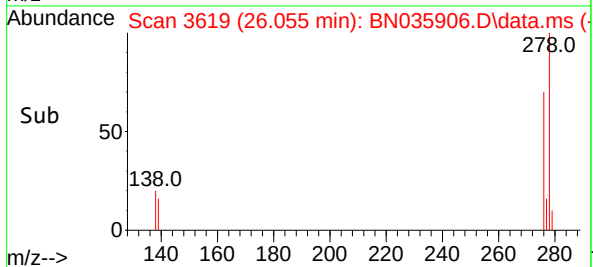
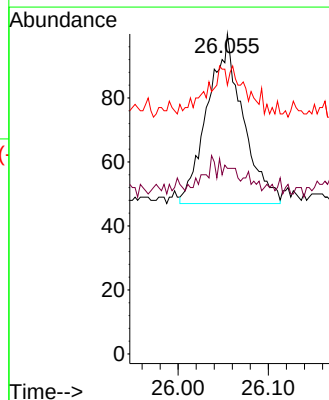
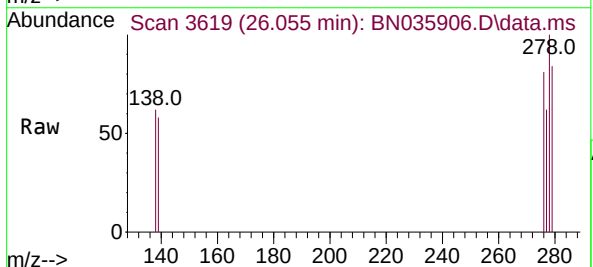
Tgt Ion:278 Resp: 144

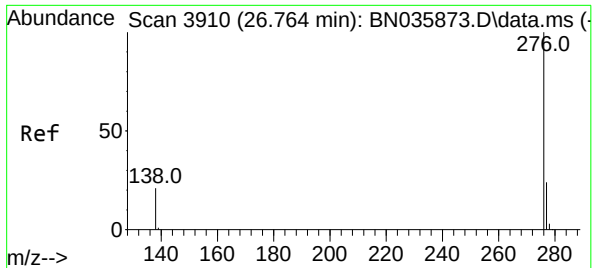
Ion Ratio Lower Upper

278 100

139 58.0 15.9 23.9#

279 84.0 23.0 34.4#





#41

Benzo(g,h,i)perylene

Concen: 0.025 ng

RT: 26.742 min Scan# 31

Delta R.T. -0.022 min

Lab File: BN035906.D

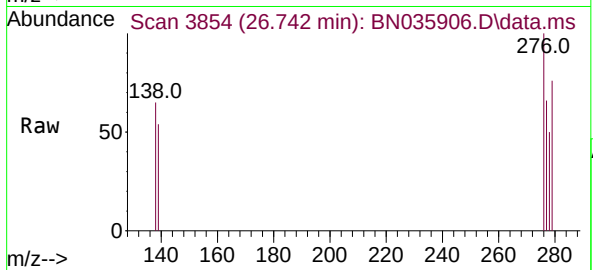
Acq: 10 Jan 2025 17:45

Instrument :

BNA_N

ClientSampleId :

RW5-SP100-20250108



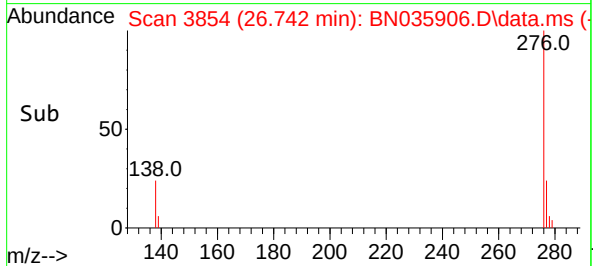
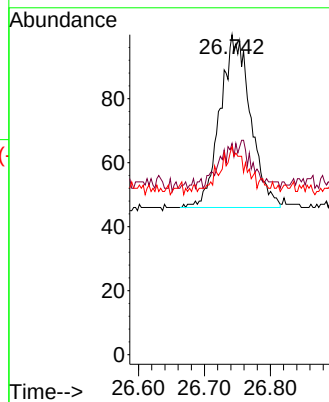
Tgt Ion:276 Resp: 173

Ion Ratio Lower Upper

276 100

277 66.0 22.8 34.2#

138 65.0 20.1 30.1#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/08/25
Project:	RW5B FT WC - # 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	RW5-SP100-20250108DL	SDG No.:	Q1040
Lab Sample ID:	Q1040-01DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035916.D	5	01/10/25 08:10	01/13/25 11:20	PB166005

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	10.2	D	0.34	1.00	1.00	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.50		30 - 150		125%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.55		30 - 150		136%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.59	*	55 - 111		147%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.50	*	53 - 106		125%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.62	*	58 - 132		154%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	870		7.832			
1146-65-2	Naphthalene-d8	1610		10.622			
15067-26-2	Acenaphthene-d10	789		14.463			
1517-22-2	Phenanthrene-d10	1570		17.199			
1719-03-5	Chrysene-d12	1410		21.376			
1520-96-3	Perylene-d12	1620		23.681			

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\BN011325\
Data File : BN035916.D
Acq On : 13 Jan 2025 11:20
Operator : RC/JU
Sample : Q1040-01DL 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250108DL

Quant Time: Jan 13 11:52:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

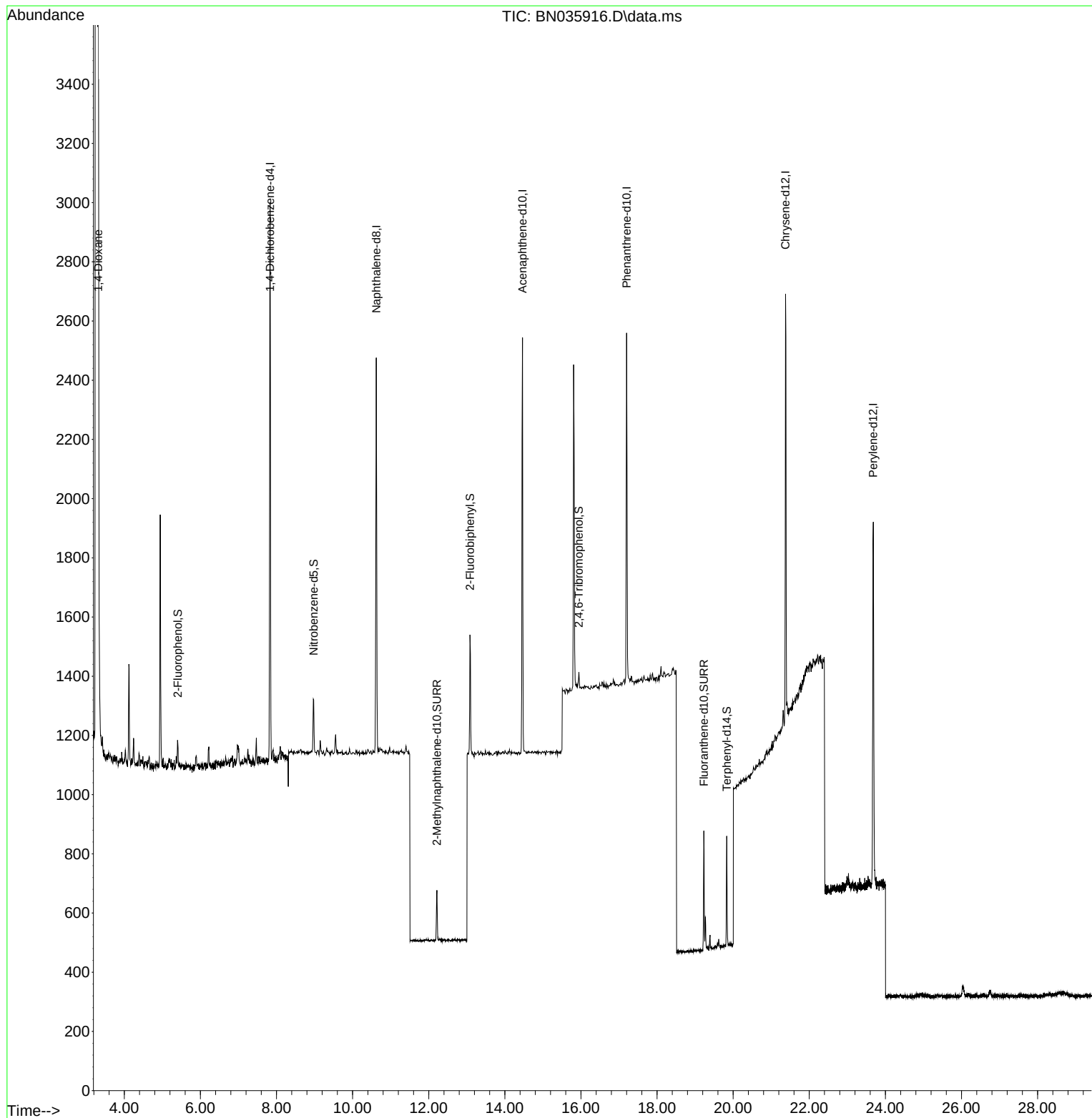
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.832	152	870	0.400	ng	0.00
7) Naphthalene-d8	10.622	136	1614	0.400	ng	0.00
13) Acenaphthene-d10	14.463	164	789	0.400	ng	0.00
19) Phenanthrene-d10	17.199	188	1568	0.400	ng	#-0.01
29) Chrysene-d12	21.376	240	1407	0.400	ng	# 0.00
35) Perylene-d12	23.681	264	1618	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.405	112	74	0.035	ng	0.00
5) Phenol-d6	6.979	99	49	0.018	ng	0.00
8) Nitrobenzene-d5	8.977	82	151	0.118	ng	0.00
11) 2-Methylnaphthalene-d10	12.213	152	217	0.100	ng	0.00
14) 2,4,6-Tribromophenol	15.945	330	28	0.074	ng	-0.01
15) 2-Fluorobiphenyl	13.084	172	347	0.100	ng	0.00
27) Fluoranthene-d10	19.230	212	426	0.109	ng	0.00
31) Terphenyl-d14	19.829	244	345	0.123	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.318	88	1746	2.021	ng	96

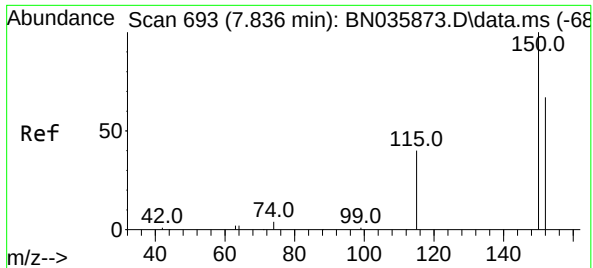
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011325\
Data File : BN035916.D
Acq On : 13 Jan 2025 11:20
Operator : RC/JU
Sample : Q1040-01DL 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250108DL

Quant Time: Jan 13 11:52:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

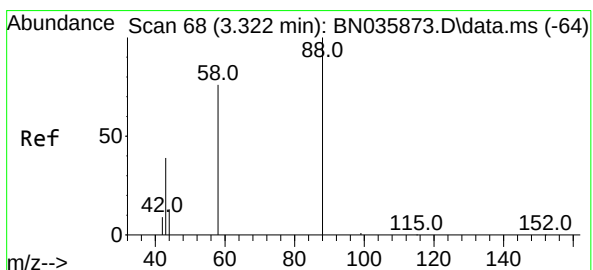
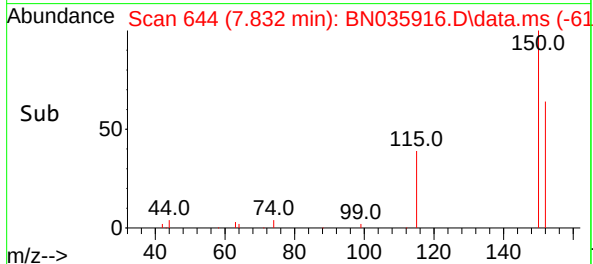
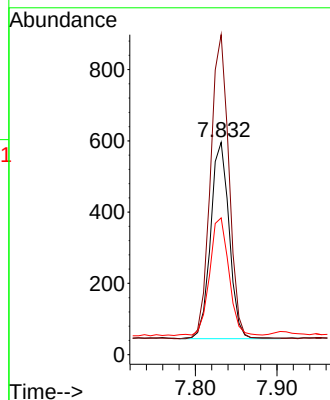
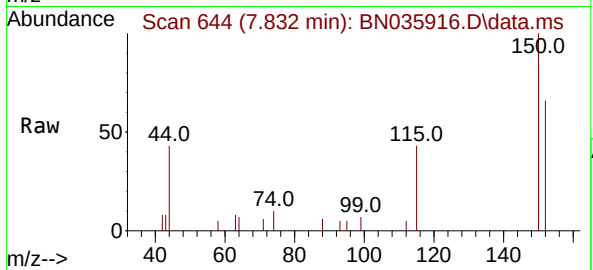




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.832 min Scan# 64
Delta R.T. -0.004 min
Lab File: BN035916.D
Acq: 13 Jan 2025 11:20

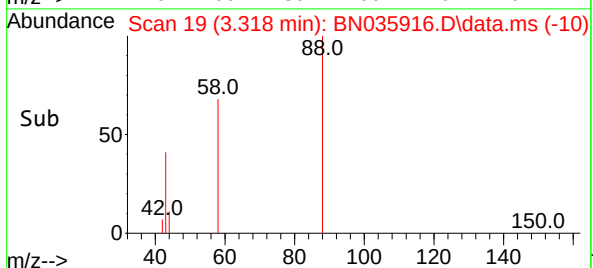
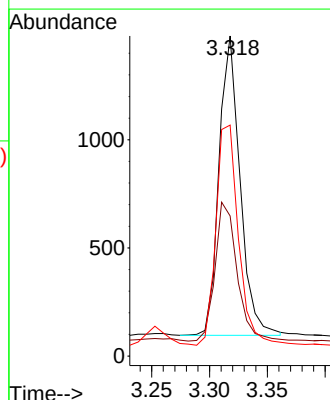
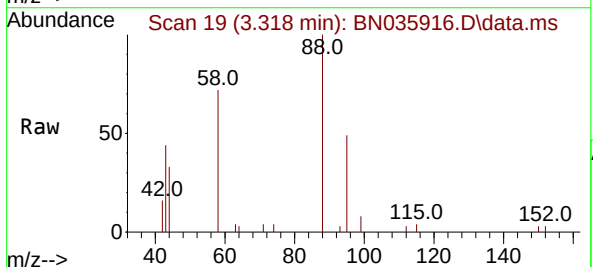
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250108DL

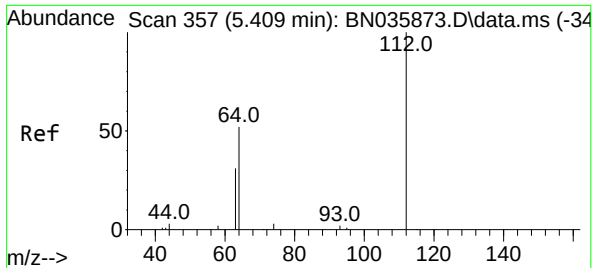
Tgt Ion:152 Resp: 870
Ion Ratio Lower Upper
152 100
150 150.7 117.8 176.6
115 64.4 51.0 76.4



#2
1,4-Dioxane
Concen: 2.021 ng
RT: 3.318 min Scan# 19
Delta R.T. -0.004 min
Lab File: BN035916.D
Acq: 13 Jan 2025 11:20

Tgt Ion: 88 Resp: 1746
Ion Ratio Lower Upper
88 100
43 48.7 32.7 49.1
58 78.8 63.0 94.4

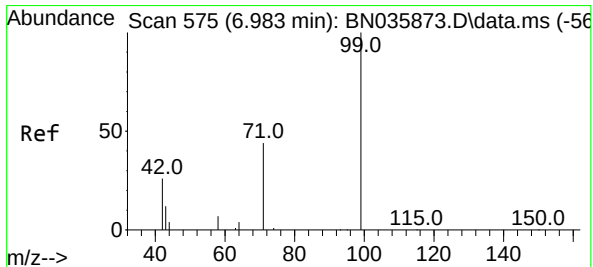
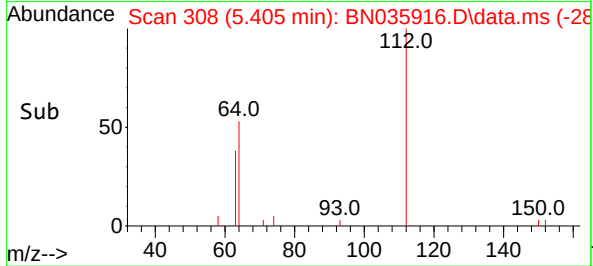
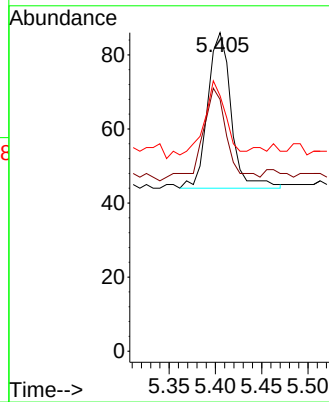
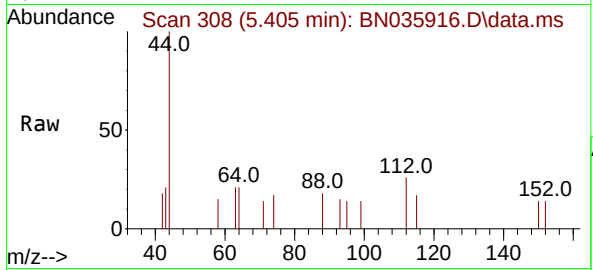




#4
2-Fluorophenol
Concen: 0.035 ng
RT: 5.405 min Scan# 308
Delta R.T. -0.004 min
Lab File: BN035916.D
Acq: 13 Jan 2025 11:20

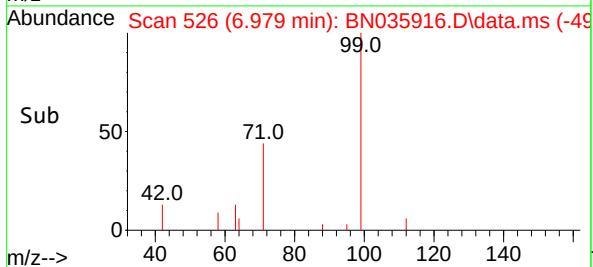
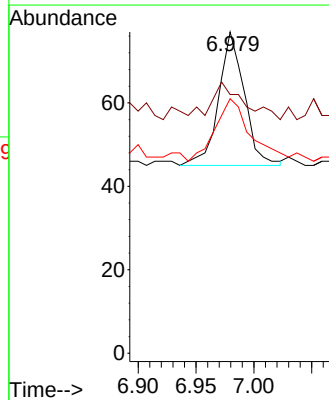
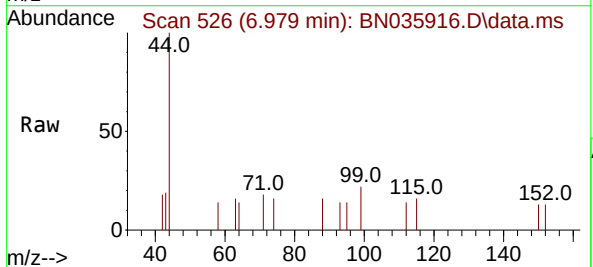
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250108DL

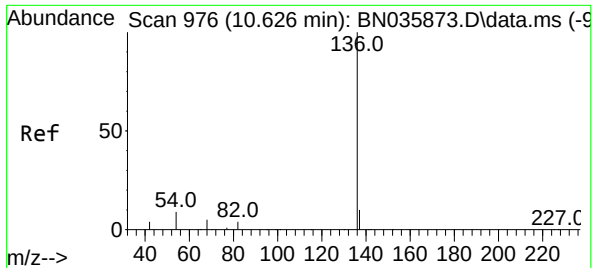
Tgt Ion:	112	Resp:	74
Ion	Ratio	Lower	Upper
112	100		
64	62.2	48.2	72.2
63	41.9	30.0	45.0



#5
Phenol-d6
Concen: 0.018 ng
RT: 6.979 min Scan# 526
Delta R.T. -0.004 min
Lab File: BN035916.D
Acq: 13 Jan 2025 11:20

Tgt Ion:	99	Resp:	49
Ion	Ratio	Lower	Upper
99	100		
42	40.8	23.5	35.3#
71	67.3	35.5	53.3#

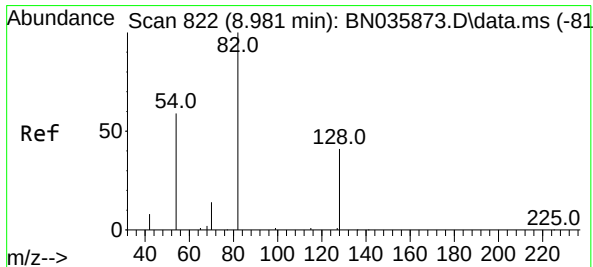
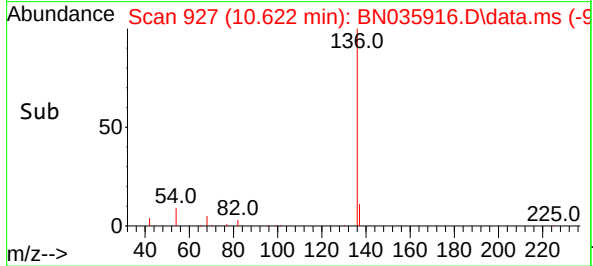
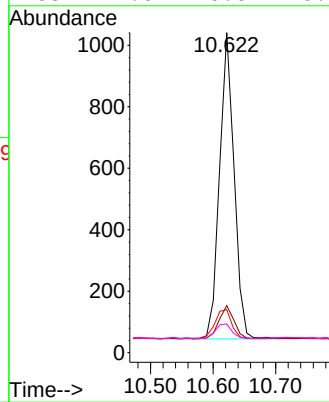
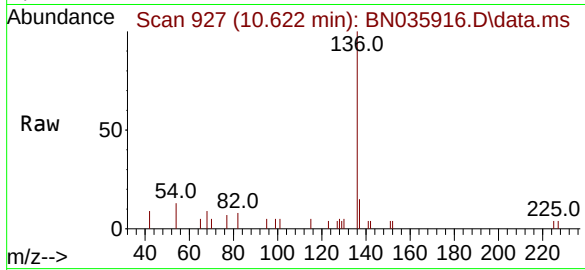




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.622 min Scan# 91
Delta R.T. -0.004 min
Lab File: BN035916.D
Acq: 13 Jan 2025 11:20

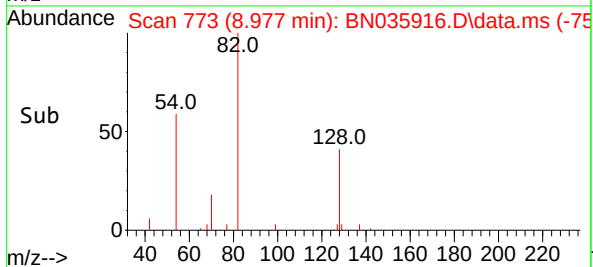
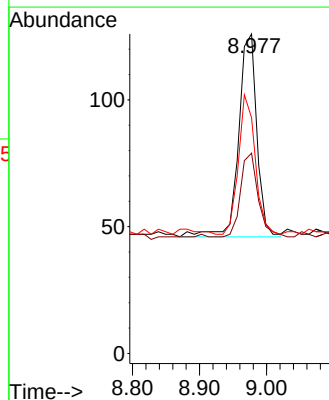
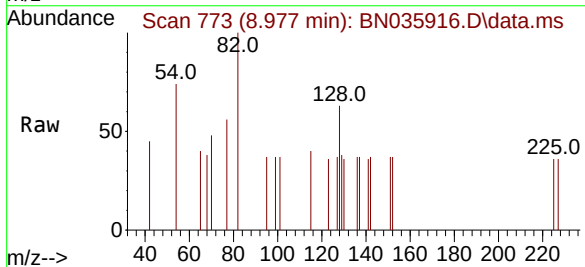
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250108DL

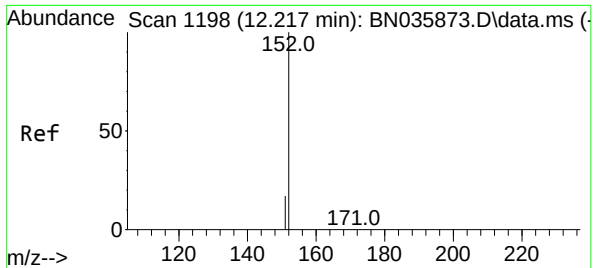
Tgt Ion:	136	Resp:	1614
Ion	Ratio	Lower	Upper
136	100		
137	14.7	10.6	15.8
54	13.4	9.8	14.6
68	9.0	6.6	10.0



#8
Nitrobenzene-d5
Concen: 0.118 ng
RT: 8.977 min Scan# 773
Delta R.T. -0.004 min
Lab File: BN035916.D
Acq: 13 Jan 2025 11:20

Tgt Ion:	82	Resp:	151
Ion	Ratio	Lower	Upper
82	100		
128	62.7	36.9	55.3#
54	73.8	50.4	75.6

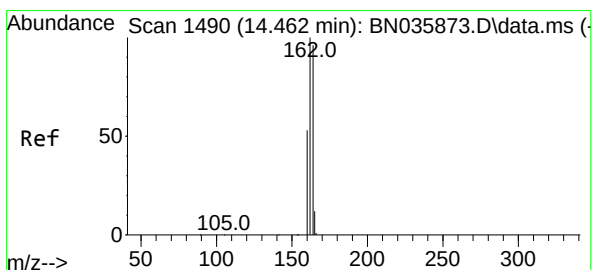
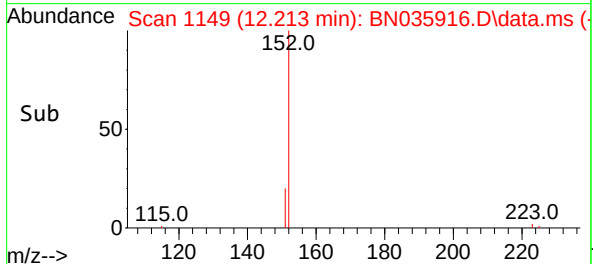
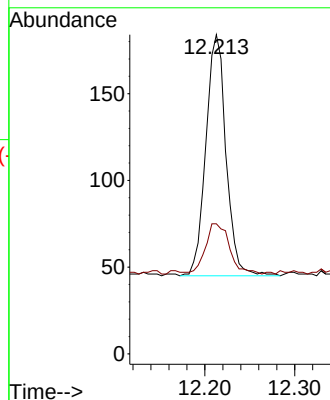
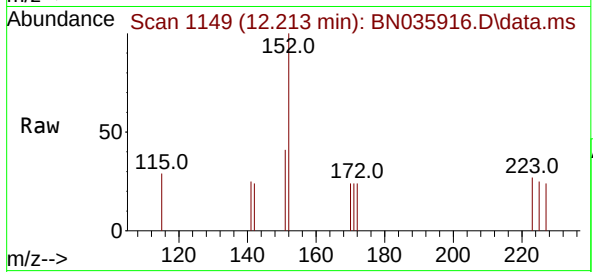




#11
2-Methylnaphthalene-d10
Concen: 0.100 ng
RT: 12.213 min Scan# 1198
Delta R.T. -0.004 min
Lab File: BN035916.D
Acq: 13 Jan 2025 11:20

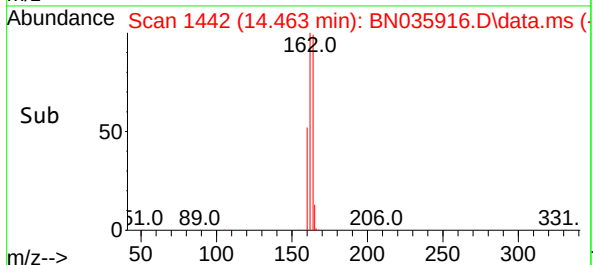
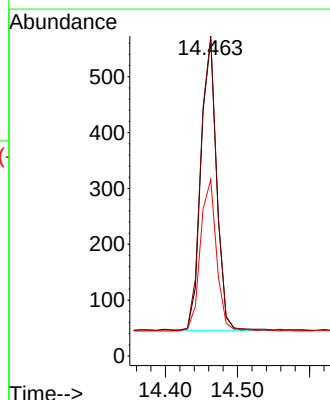
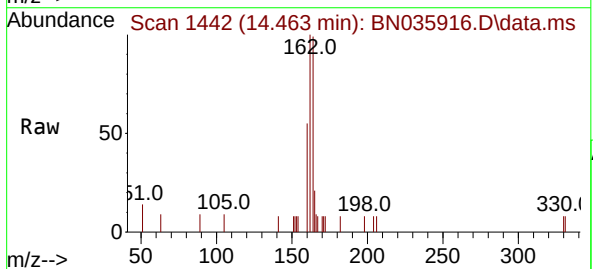
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250108DL

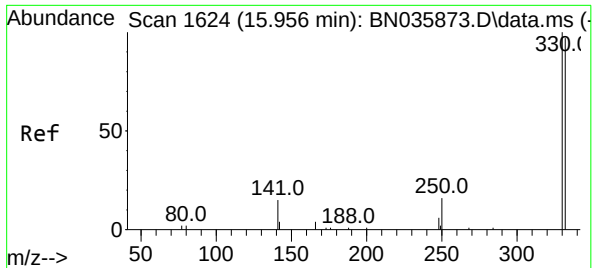
Tgt Ion:152 Resp: 217
Ion Ratio Lower Upper
152 100
151 24.9 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.463 min Scan# 1442
Delta R.T. 0.001 min
Lab File: BN035916.D
Acq: 13 Jan 2025 11:20

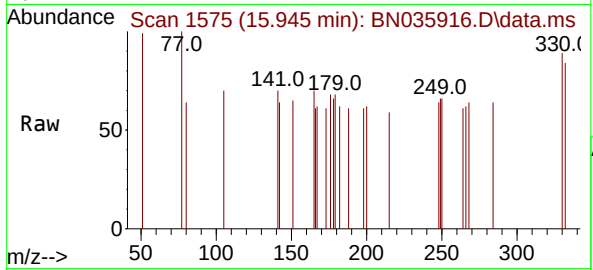
Tgt Ion:164 Resp: 789
Ion Ratio Lower Upper
164 100
162 101.1 83.1 124.7
160 55.7 46.0 69.0



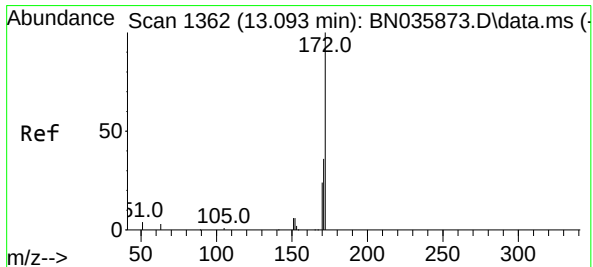
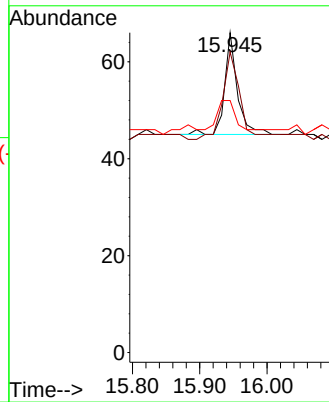
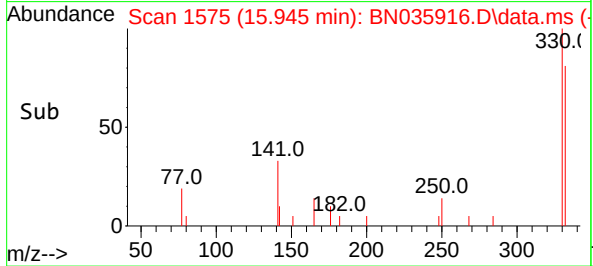


#14
2,4,6-Tribromophenol
Concen: 0.074 ng
RT: 15.945 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN035916.D
Acq: 13 Jan 2025 11:20

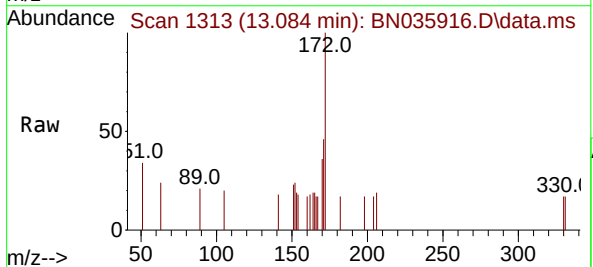
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250108DL



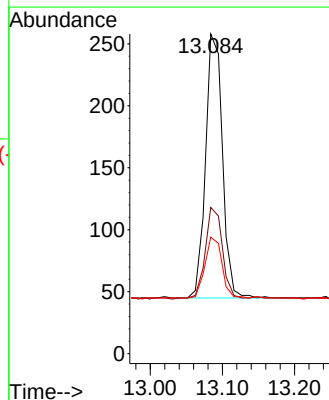
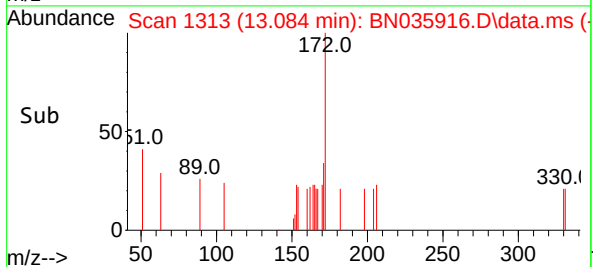
Tgt Ion:330 Resp: 28
Ion Ratio Lower Upper
330 100
332 110.7 77.2 115.8
141 46.4 31.6 47.4

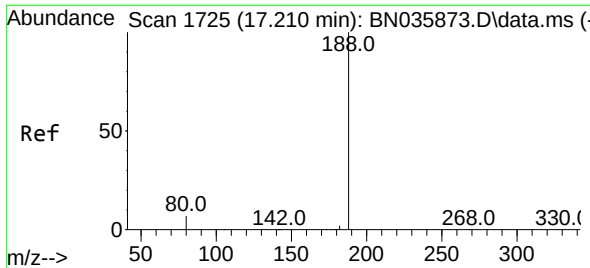


#15
2-Fluorobiphenyl
Concen: 0.100 ng
RT: 13.084 min Scan# 1313
Delta R.T. -0.010 min
Lab File: BN035916.D
Acq: 13 Jan 2025 11:20



Tgt Ion:172 Resp: 347
Ion Ratio Lower Upper
172 100
171 45.7 30.5 45.7#
170 36.4 20.8 31.2#

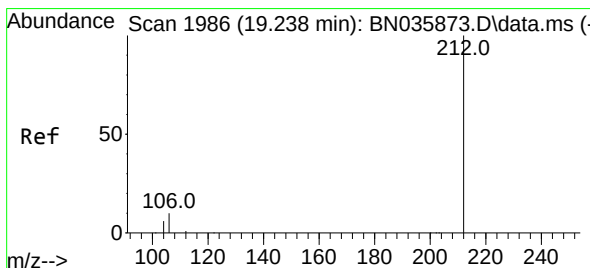
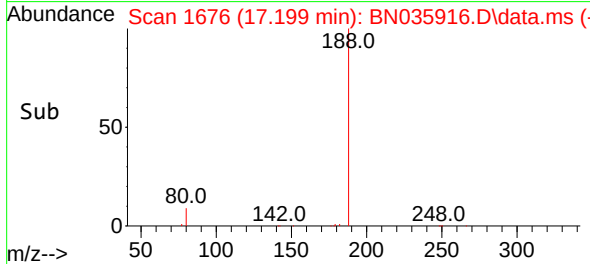
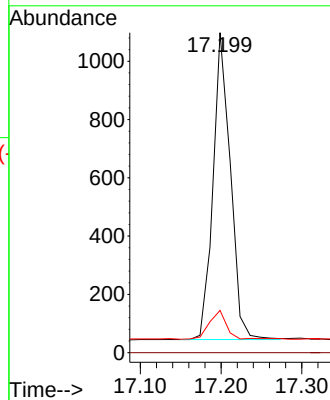
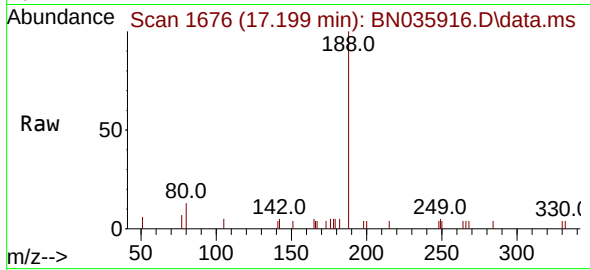




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.199 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN035916.D
Acq: 13 Jan 2025 11:20

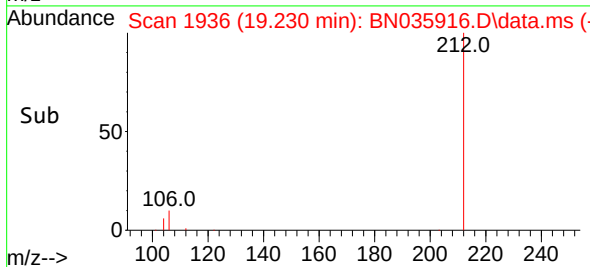
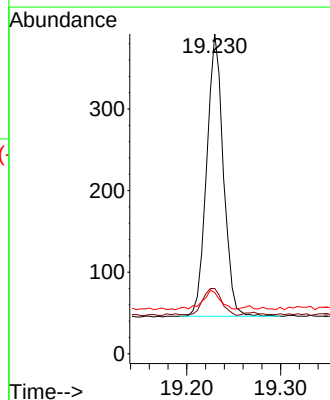
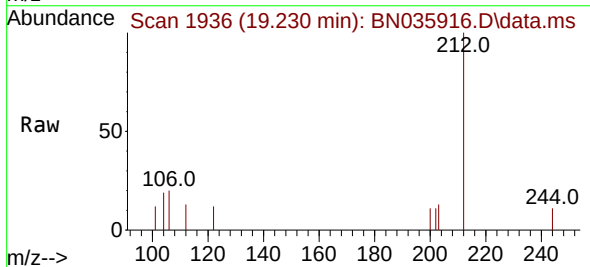
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250108DL

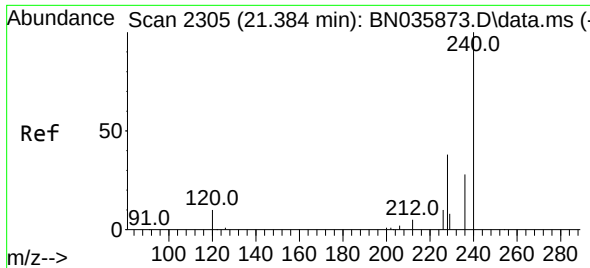
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.2	7.3	10.9#



#27
Fluoranthene-d10
Concen: 0.109 ng
RT: 19.230 min Scan# 1936
Delta R.T. -0.008 min
Lab File: BN035916.D
Acq: 13 Jan 2025 11:20

Tgt Ion	Ratio	Lower	Upper
212	100		
106	10.8	9.0	13.6
104	7.3	5.4	8.2

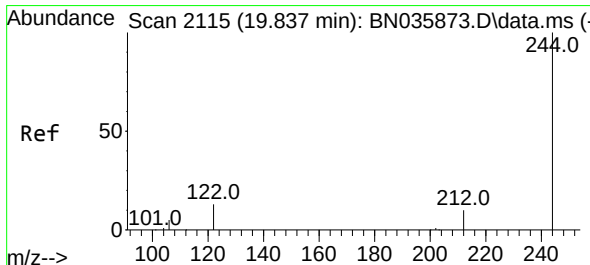
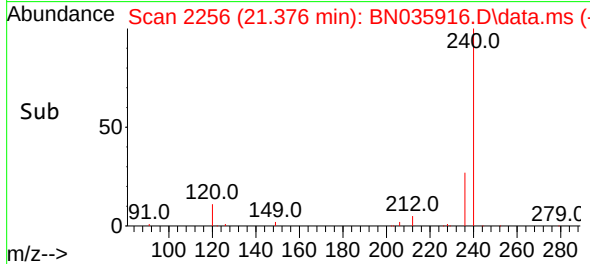
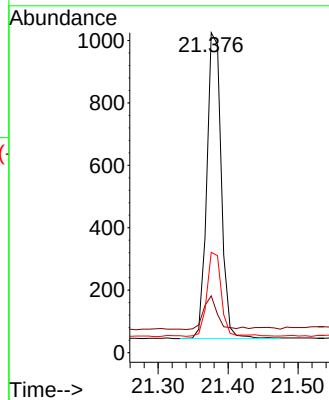
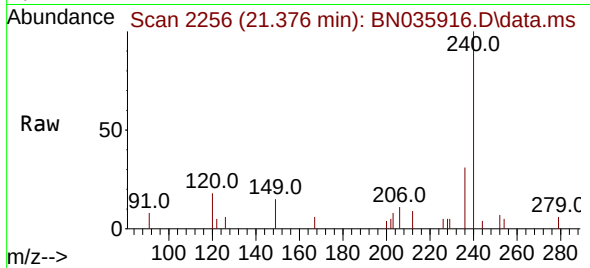




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.376 min Scan# 2137
Delta R.T. -0.008 min
Lab File: BN035916.D
Acq: 13 Jan 2025 11:20

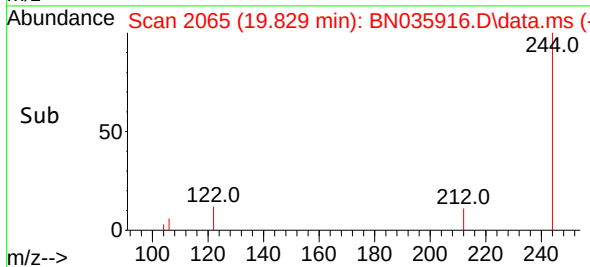
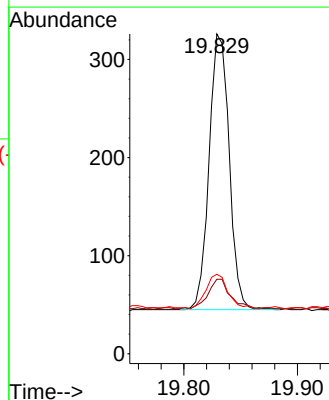
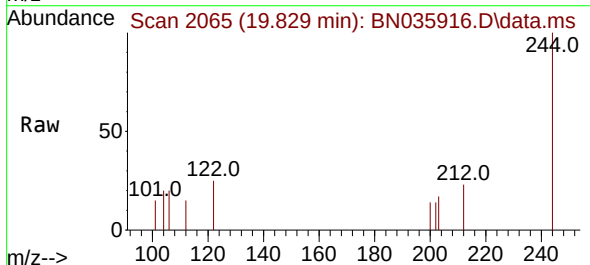
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250108DL

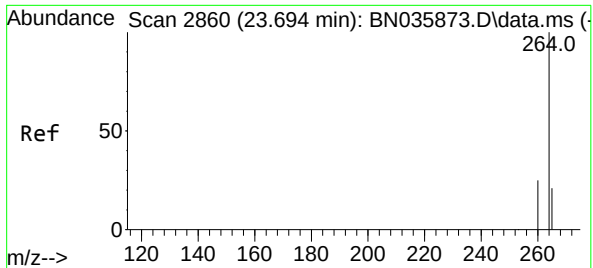
Tgt Ion:240 Resp: 1407
Ion Ratio Lower Upper
240 100
120 17.8 11.1 16.7#
236 31.3 24.6 36.8



#31
Terphenyl-d14
Concen: 0.123 ng
RT: 19.829 min Scan# 2065
Delta R.T. -0.008 min
Lab File: BN035916.D
Acq: 13 Jan 2025 11:20

Tgt Ion:244 Resp: 345
Ion Ratio Lower Upper
244 100
212 23.3 10.1 15.1#
122 24.8 12.2 18.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.681 min Scan# 21

Delta R.T. -0.013 min

Lab File: BN035916.D

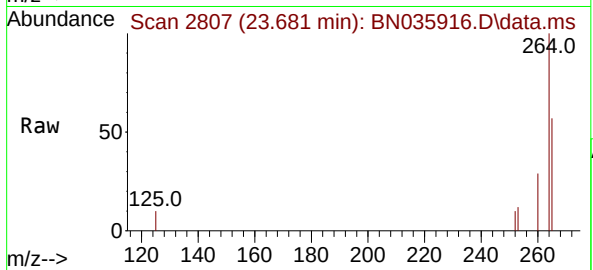
Acq: 13 Jan 2025 11:20

Instrument :

BNA_N

ClientSampleId :

RW5-SP100-20250108DL



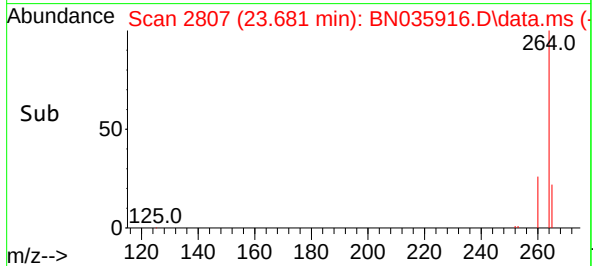
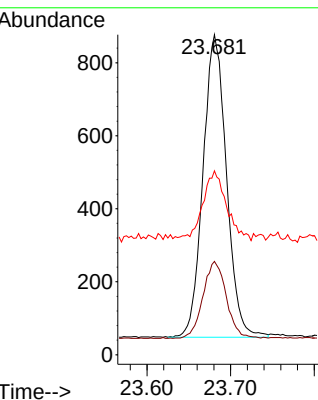
Tgt Ion:264 Resp: 1618

Ion Ratio Lower Upper

264 100

260 29.2 21.7 32.5

265 57.5 33.9 50.9#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/08/25
Project:	RW5B FT WC - # 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	RW5-SP201-20250108	SDG No.:	Q1040
Lab Sample ID:	Q1040-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035907.D	1	01/10/25 08:10	01/10/25 18:21	PB166005

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.42		30 - 150		105%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		110%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.46	*	55 - 111		114%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.44	*	53 - 106		110%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		117%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1150		7.832			
1146-65-2	Naphthalene-d8	2170		10.622			
15067-26-2	Acenaphthene-d10	1030		14.463			
1517-22-2	Phenanthrene-d10	1980		17.199			
1719-03-5	Chrysene-d12	1700		21.376			
1520-96-3	Perylene-d12	1980		23.683			

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\BN011025\
Data File : BN035907.D
Acq On : 10 Jan 2025 18:21
Operator : RC/JU
Sample : Q1040-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250108

Quant Time: Jan 10 21:46:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

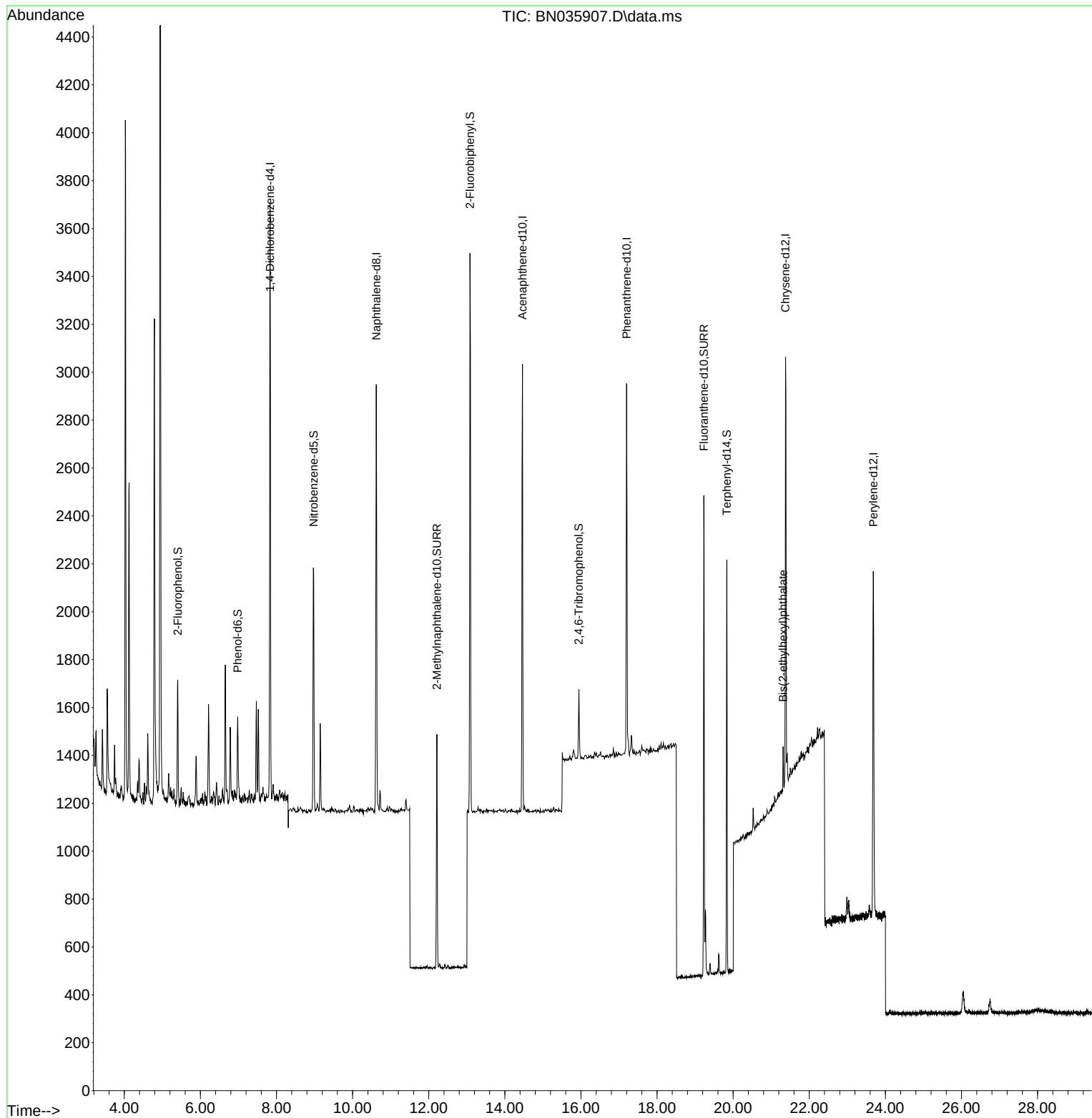
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.832	152	1151	0.400	ng	0.00
7) Naphthalene-d8	10.622	136	2169	0.400	ng	0.00
13) Acenaphthene-d10	14.463	164	1026	0.400	ng	0.00
19) Phenanthrene-d10	17.199	188	1977	0.400	ng	#-0.01
29) Chrysene-d12	21.376	240	1700	0.400	ng	# 0.00
35) Perylene-d12	23.683	264	1984	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.405	112	388	0.137	ng	0.00
5) Phenol-d6	6.979	99	267	0.076	ng	0.00
8) Nitrobenzene-d5	8.977	82	785	0.457	ng	0.00
11) 2-Methylnaphthalene-d10	12.213	152	1216	0.419	ng	0.00
14) 2,4,6-Tribromophenol	15.945	330	165	0.335	ng	-0.01
15) 2-Fluorobiphenyl	13.084	172	1985	0.441	ng	0.00
27) Fluoranthene-d10	19.230	212	2159	0.440	ng	0.00
31) Terphenyl-d14	19.834	244	1587	0.468	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.313	149	174	0.071	ng	# 91

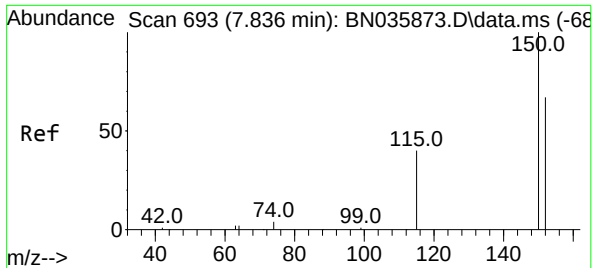
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011025\
Data File : BN035907.D
Acq On : 10 Jan 2025 18:21
Operator : RC/JU
Sample : Q1040-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250108

Quant Time: Jan 10 21:46:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

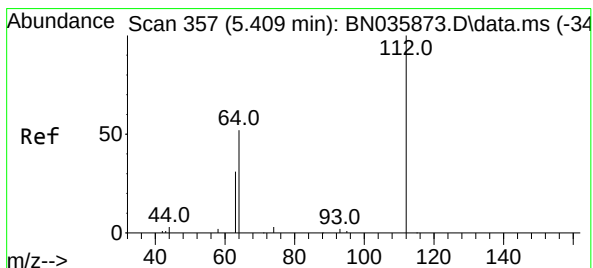
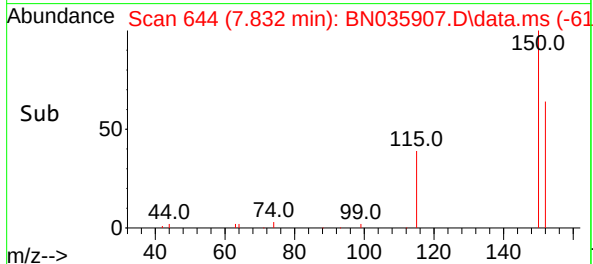
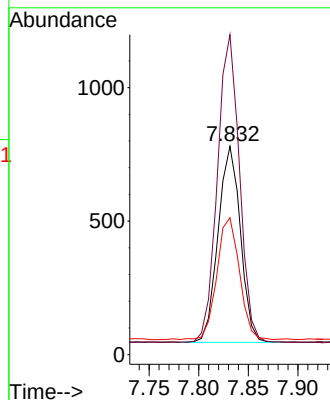
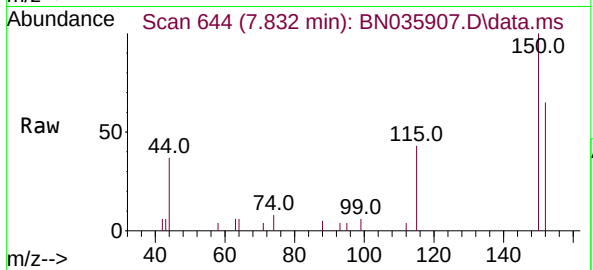




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.832 min Scan# 64
Delta R.T. -0.004 min
Lab File: BN035907.D
Acq: 10 Jan 2025 18:21

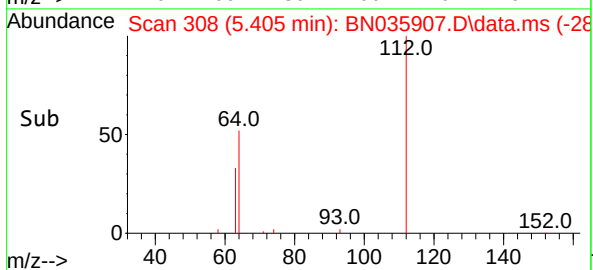
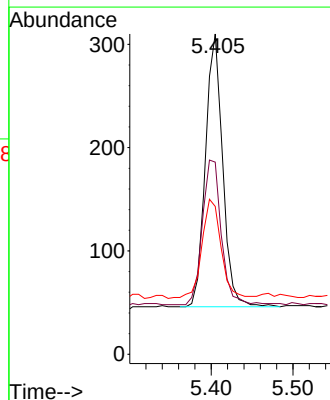
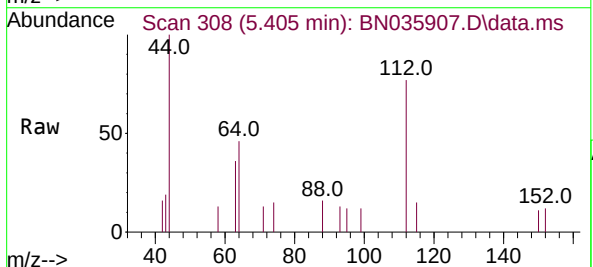
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250108

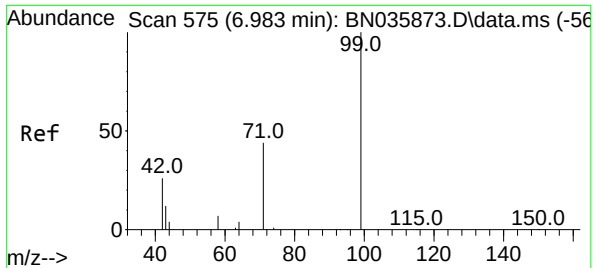
Tgt Ion:152 Resp: 1151
Ion Ratio Lower Upper
152 100
150 153.6 117.8 176.6
115 65.8 51.0 76.4



#4
2-Fluorophenol
Concen: 0.137 ng
RT: 5.405 min Scan# 308
Delta R.T. -0.004 min
Lab File: BN035907.D
Acq: 10 Jan 2025 18:21

Tgt Ion:112 Resp: 388
Ion Ratio Lower Upper
112 100
64 59.5 48.2 72.2
63 41.2 30.0 45.0

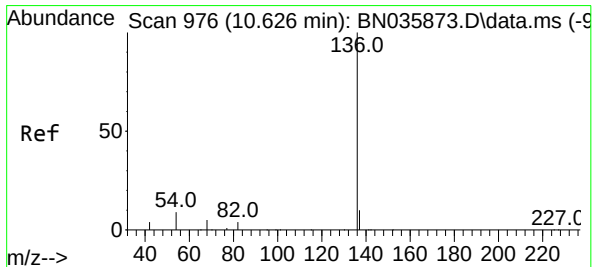
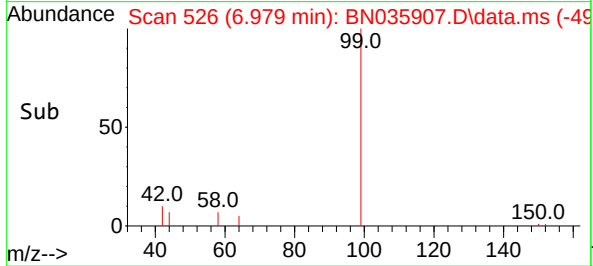
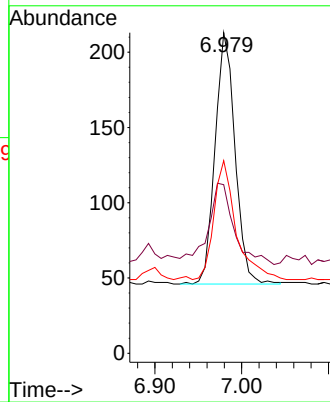
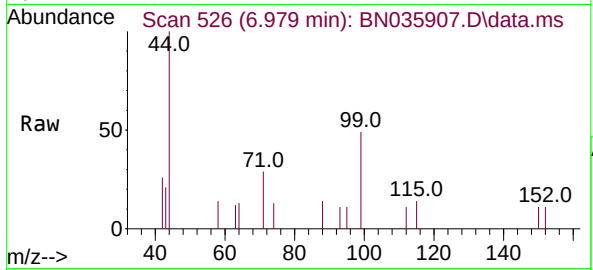




#5
Phenol-d6
Concen: 0.076 ng
RT: 6.979 min Scan# 51
Delta R.T. -0.004 min
Lab File: BN035907.D
Acq: 10 Jan 2025 18:21

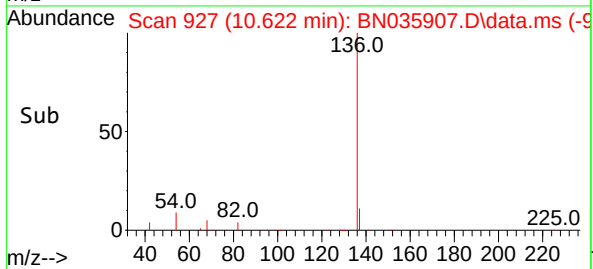
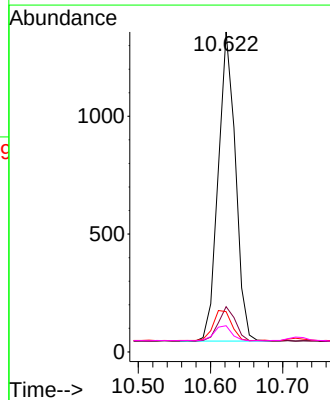
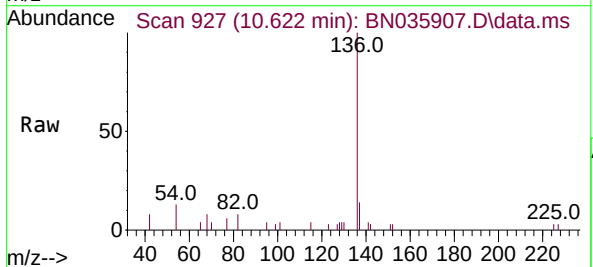
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250108

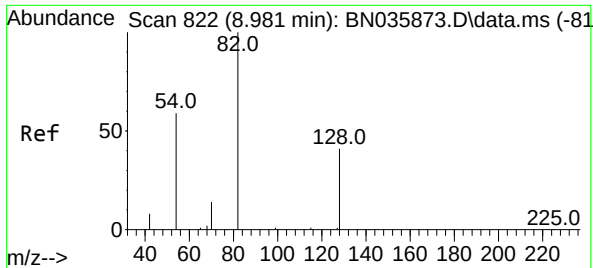
Tgt Ion: 99 Resp: 267
Ion Ratio Lower Upper
99 100
42 41.9 23.5 35.3#
71 54.3 35.5 53.3#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.622 min Scan# 927
Delta R.T. -0.004 min
Lab File: BN035907.D
Acq: 10 Jan 2025 18:21

Tgt Ion: 136 Resp: 2169
Ion Ratio Lower Upper
136 100
137 14.1 10.6 15.8
54 12.6 9.8 14.6
68 8.2 6.6 10.0

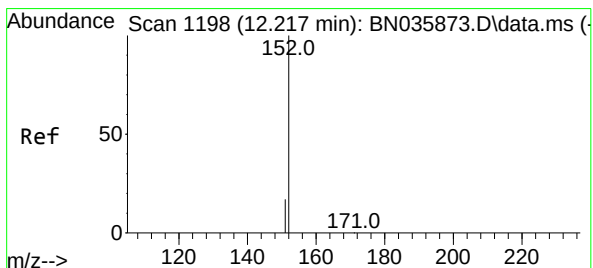
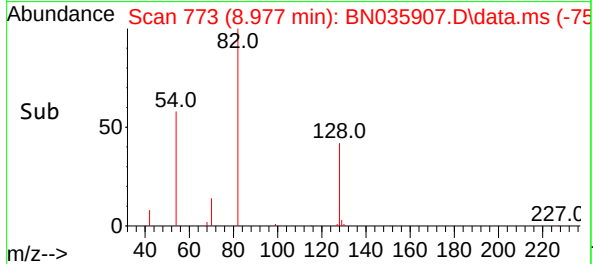
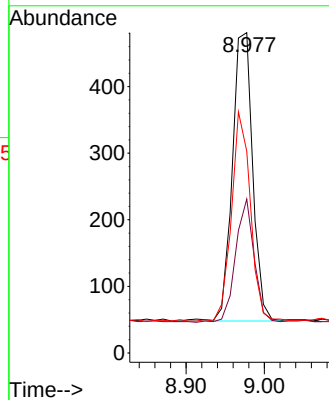
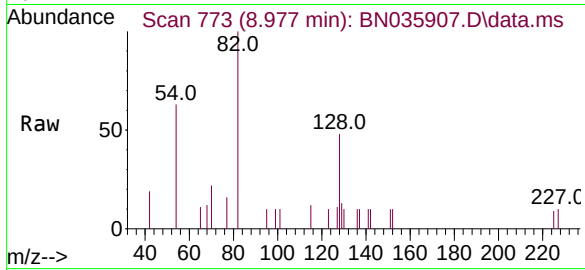




#8
Nitrobenzene-d5
Concen: 0.457 ng
RT: 8.977 min Scan# 71
Delta R.T. -0.004 min
Lab File: BN035907.D
Acq: 10 Jan 2025 18:21

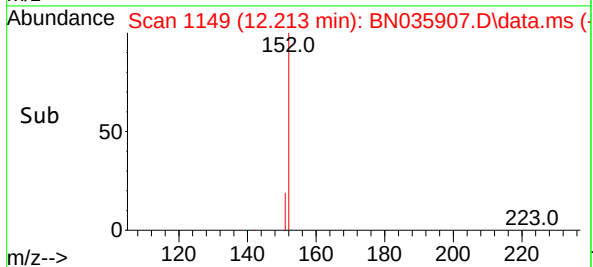
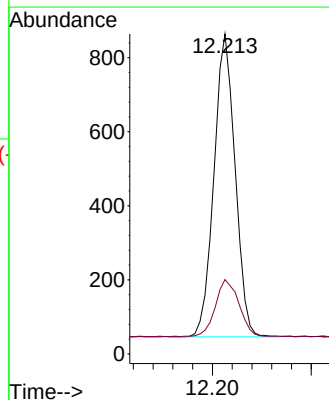
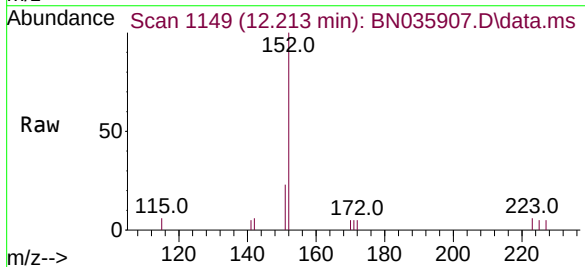
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250108

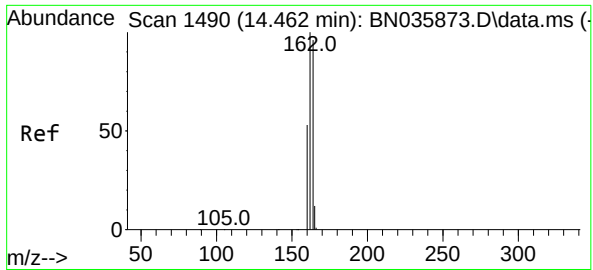
Tgt Ion:	82	Resp:	785
Ion	Ratio	Lower	Upper
82	100		
128	48.0	36.9	55.3
54	63.0	50.4	75.6



#11
2-Methylnaphthalene-d10
Concen: 0.419 ng
RT: 12.213 min Scan# 1149
Delta R.T. -0.004 min
Lab File: BN035907.D
Acq: 10 Jan 2025 18:21

Tgt Ion:	152	Resp:	1216
Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.0	25.6

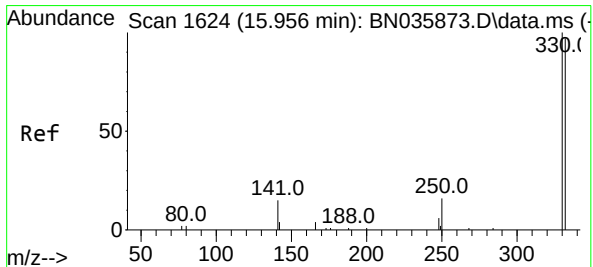
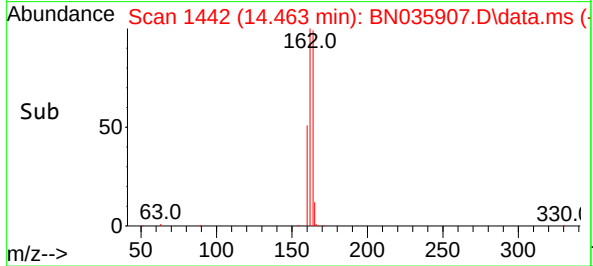
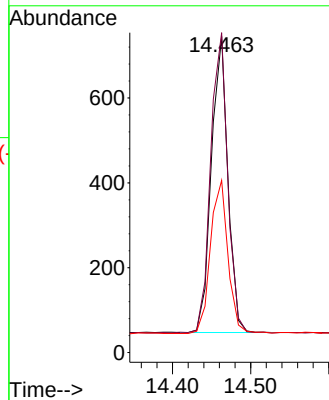
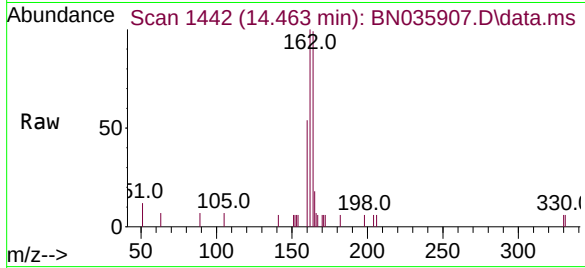




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.463 min Scan# 14
Delta R.T. 0.001 min
Lab File: BN035907.D
Acq: 10 Jan 2025 18:21

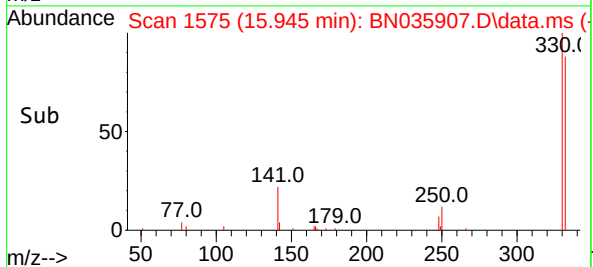
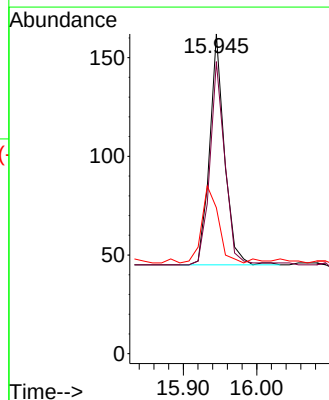
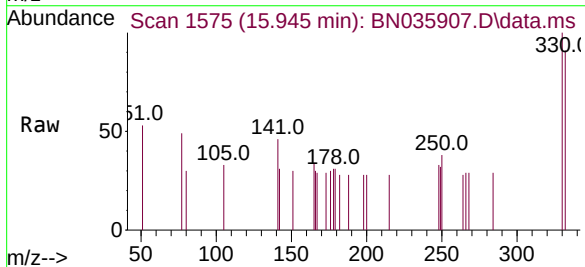
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250108

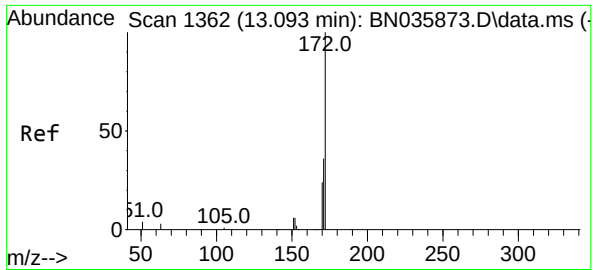
Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.2	83.1	124.7
160	54.5	46.0	69.0



#14
2,4,6-Tribromophenol
Concen: 0.335 ng
RT: 15.945 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035907.D
Acq: 10 Jan 2025 18:21

Tgt Ion	Ratio	Lower	Upper
330	100		
332	89.7	77.2	115.8
141	38.2	31.6	47.4

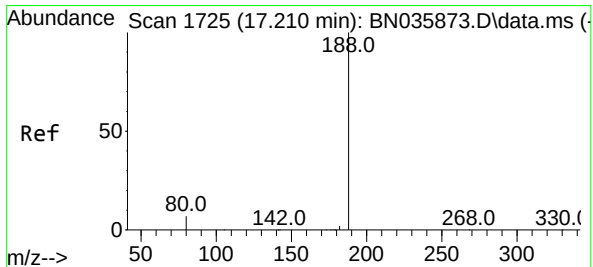
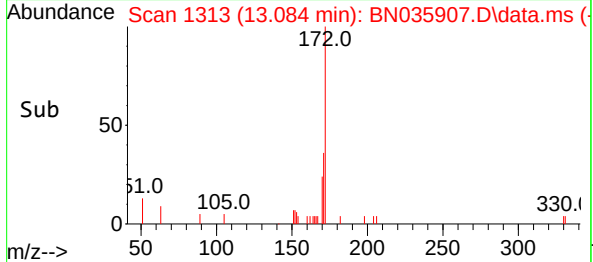
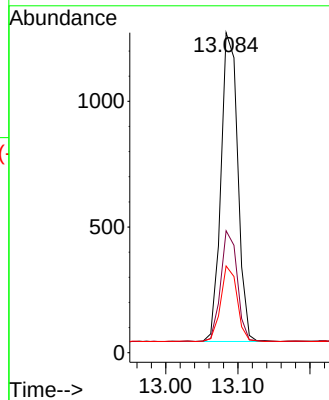
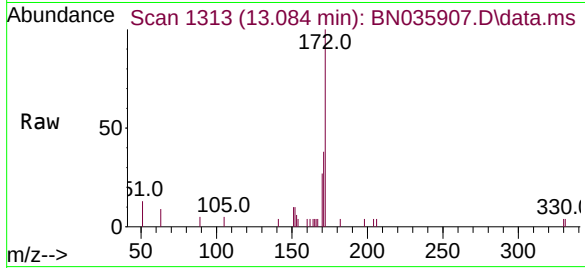




#15
2-Fluorobiphenyl
Concen: 0.441 ng
RT: 13.084 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN035907.D
Acq: 10 Jan 2025 18:21

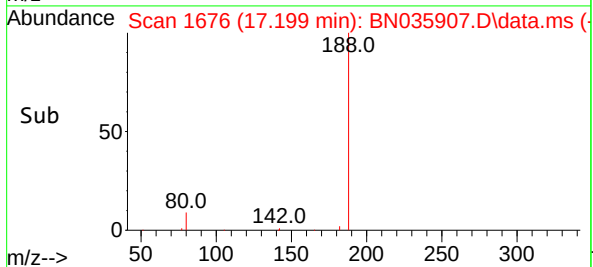
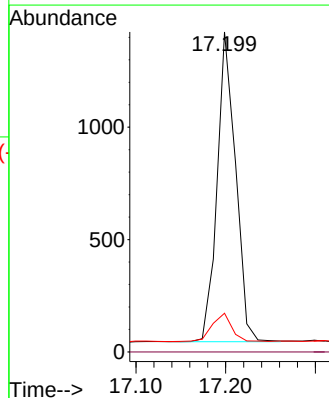
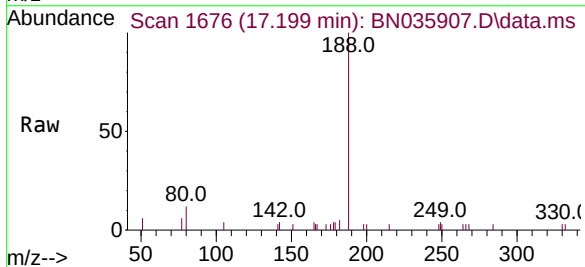
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250108

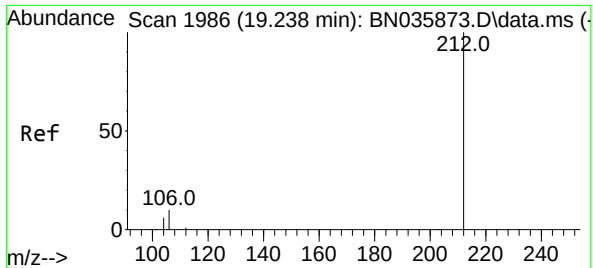
Tgt Ion:	172	Resp:	1985
Ion	Ratio	Lower	Upper
172	100		
171	38.1	30.5	45.7
170	27.1	20.8	31.2



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.199 min Scan# 1676
Delta R.T. -0.011 min
Lab File: BN035907.D
Acq: 10 Jan 2025 18:21

Tgt Ion:	188	Resp:	1977
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.1	7.3	10.9





#27

Fluoranthene-d10

Concen: 0.440 ng

RT: 19.230 min Scan# 19

Delta R.T. -0.008 min

Lab File: BN035907.D

Acq: 10 Jan 2025 18:21

Instrument :

BNA_N

ClientSampleId :

RW5-SP201-20250108

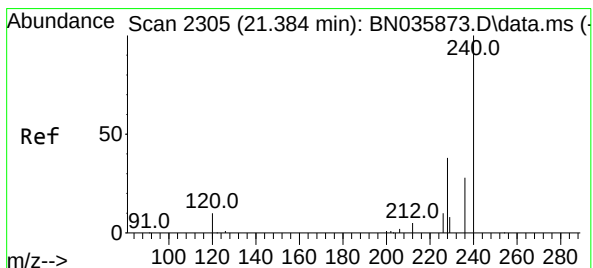
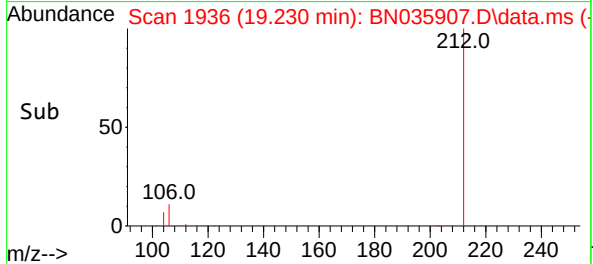
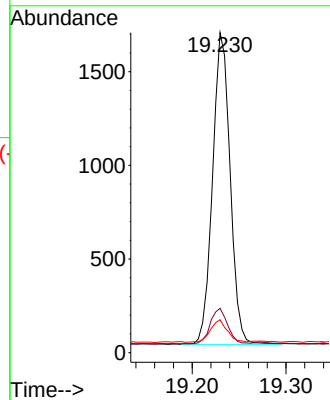
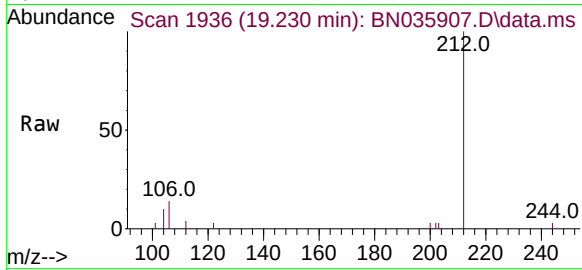
Tgt Ion:212 Resp: 2159

Ion Ratio Lower Upper

212 100

106 11.1 9.0 13.6

104 6.9 5.4 8.2



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.376 min Scan# 2256

Delta R.T. -0.008 min

Lab File: BN035907.D

Acq: 10 Jan 2025 18:21

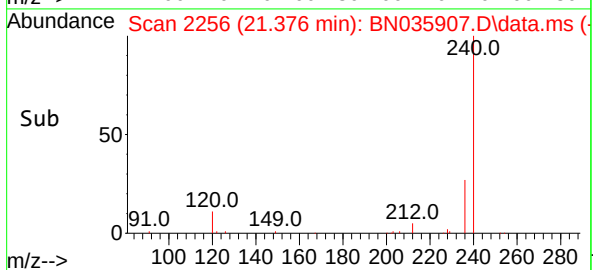
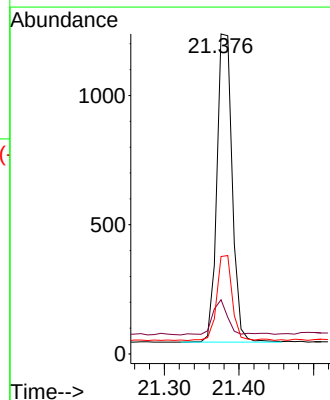
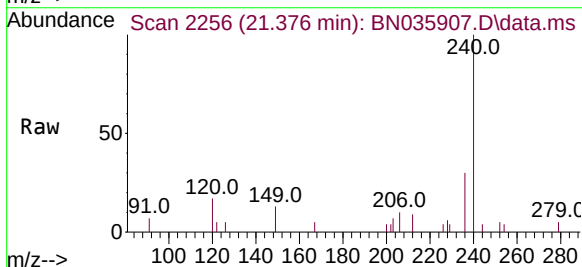
Tgt Ion:240 Resp: 1700

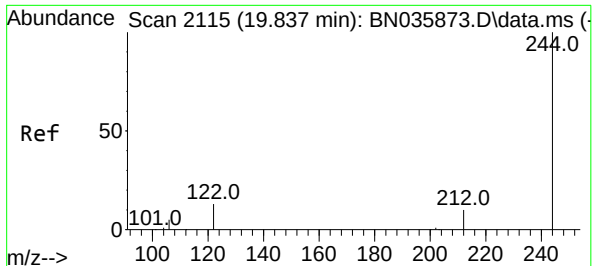
Ion Ratio Lower Upper

240 100

120 17.0 11.1 16.7#

236 30.5 24.6 36.8

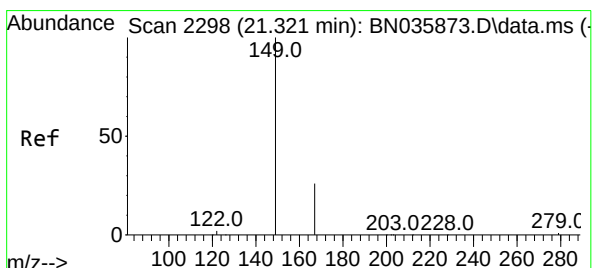
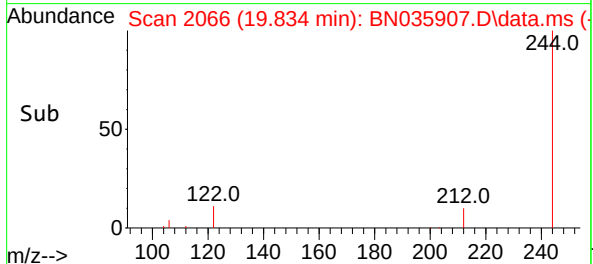
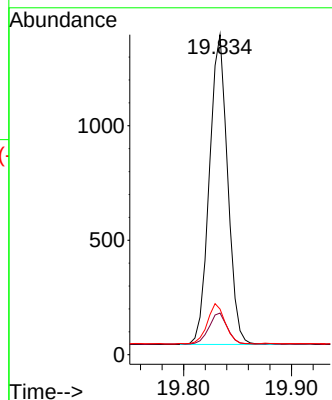
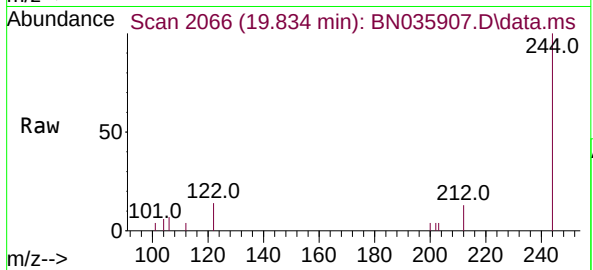




#31
Terphenyl-d14
Concen: 0.468 ng
RT: 19.834 min Scan# 2066
Delta R.T. -0.004 min
Lab File: BN035907.D
Acq: 10 Jan 2025 18:21

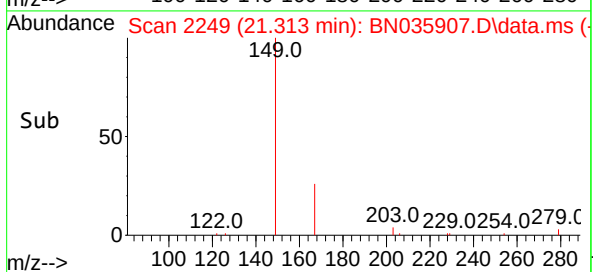
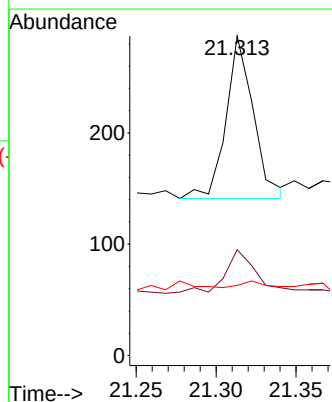
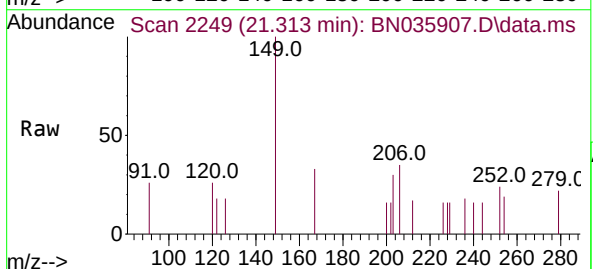
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250108

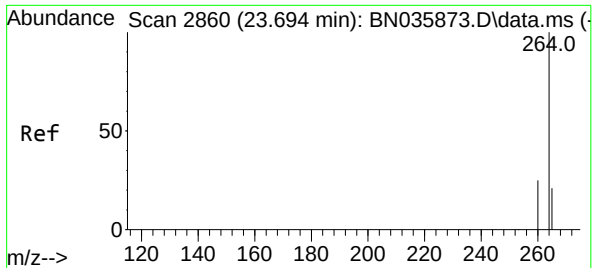
Tgt Ion:244 Resp: 1587
Ion Ratio Lower Upper
244 100
212 13.0 10.1 15.1
122 14.2 12.2 18.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.071 ng
RT: 21.313 min Scan# 2249
Delta R.T. -0.008 min
Lab File: BN035907.D
Acq: 10 Jan 2025 18:21

Tgt Ion:149 Resp: 174
Ion Ratio Lower Upper
149 100
167 31.6 21.4 32.0
279 5.7 3.0 4.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.683 min Scan# 21

Delta R.T. -0.011 min

Lab File: BN035907.D

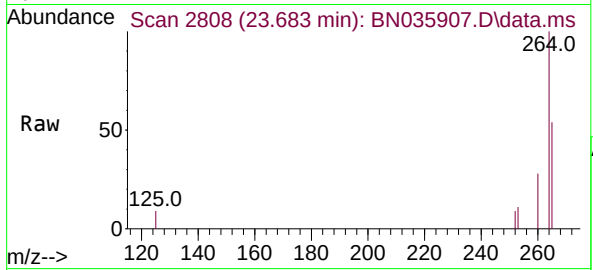
Acq: 10 Jan 2025 18:21

Instrument :

BNA_N

ClientSampleId :

RW5-SP201-20250108



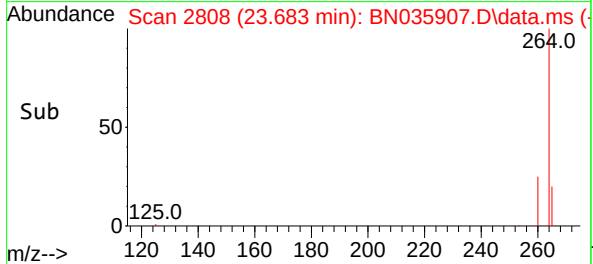
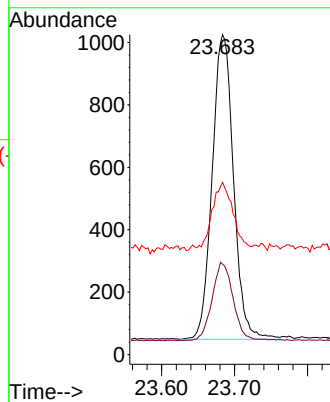
Tgt Ion:264 Resp: 1984

Ion Ratio Lower Upper

264 100

260 28.3 21.7 32.5

265 53.9 33.9 50.9#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/08/25
Project:	RW5B FT WC - # 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	RW5-SP303-20250108	SDG No.:	Q1040
Lab Sample ID:	Q1040-03	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035908.D	1	01/10/25 08:10	01/10/25 18:56	PB166005

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	U	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.41		30 - 150		102%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.47		30 - 150		117%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.43		55 - 111		107%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43	*	53 - 106		108%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.52		58 - 132		129%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	888		7.832			
1146-65-2	Naphthalene-d8	1710		10.622			
15067-26-2	Acenaphthene-d10	800		14.458			
1517-22-2	Phenanthrene-d10	1630		17.206			
1719-03-5	Chrysene-d12	1390		21.385			
1520-96-3	Perylene-d12	1540		23.686			

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\BN011025\
 Data File : BN035908.D
 Acq On : 10 Jan 2025 18:56
 Operator : RC/JU
 Sample : Q1040-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW5-SP303-20250108

Quant Time: Jan 10 21:47:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

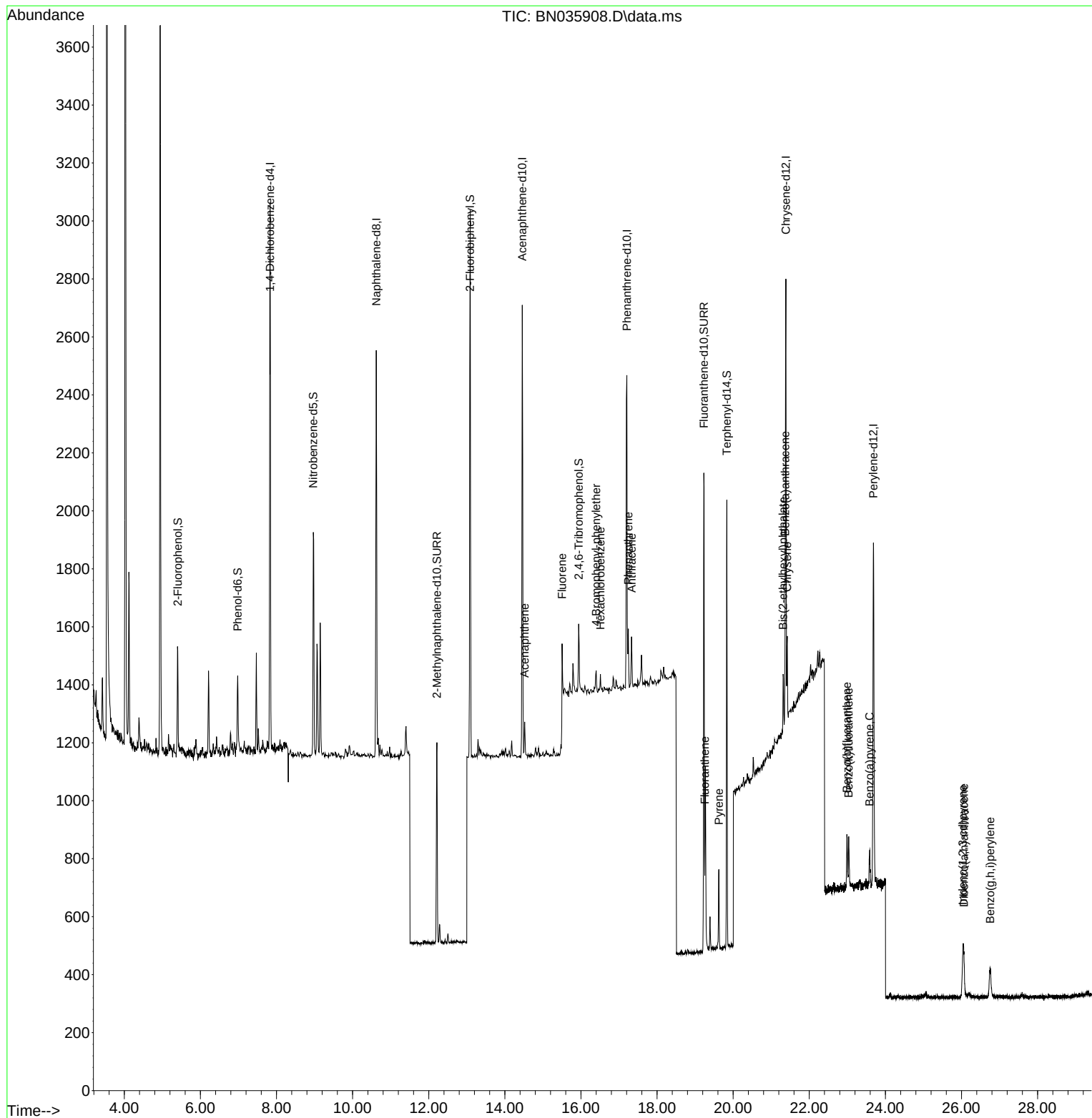
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.832	152	888	0.400	ng	0.00
7) Naphthalene-d8	10.622	136	1708	0.400	ng	0.00
13) Acenaphthene-d10	14.458	164	800	0.400	ng	0.00
19) Phenanthrene-d10	17.206	188	1628	0.400	ng	0.00
29) Chrysene-d12	21.385	240	1388	0.400	ng	0.00
35) Perylene-d12	23.686	264	1542	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.405	112	287	0.132	ng	0.00
5) Phenol-d6	6.980	99	198	0.073	ng	0.00
8) Nitrobenzene-d5	8.967	82	577	0.427	ng	-0.01
11) 2-Methylnaphthalene-d10	12.213	152	930	0.407	ng	0.00
14) 2,4,6-Tribromophenol	15.940	330	128	0.333	ng	-0.02
15) 2-Fluorobiphenyl	13.090	172	1520	0.433	ng	0.00
27) Fluoranthene-d10	19.230	212	1886	0.467	ng	0.00
31) Terphenyl-d14	19.833	244	1425	0.515	ng	0.00
Target Compounds						
17) Acenaphthene	14.522	154	56	0.023	ng	92
18) Fluorene	15.506	166	75	0.028	ng	# 96
21) 4-Bromophenyl-phenylether	16.399	248	28	0.025	ng	90
22) Hexachlorobenzene	16.511	284	38	0.025	ng	# 66
25) Phenanthrene	17.243	178	188m	0.040	ng	
26) Anthracene	17.330	178	141	0.033	ng	95
28) Fluoranthene	19.257	202	249	0.045	ng	# 3
30) Pyrene	19.624	202	242	0.043	ng	96
32) Benzo(a)anthracene	21.367	228	209	0.043	ng	# 75
33) Chrysene	21.420	228	246	0.048	ng	# 75
34) Bis(2-ethylhexyl)phtha...	21.313	149	221	0.111	ng	# 93
36) Indeno(1,2,3-cd)pyrene	26.037	276	241	0.040	ng	# 74
37) Benzo(b)fluoranthene	22.990	252	242	0.046	ng	# 31
38) Benzo(k)fluoranthene	23.034	252	205	0.039	ng	# 26
39) Benzo(a)pyrene	23.587	252	195	0.043	ng	# 22
40) Dibenzo(a,h)anthracene	26.063	278	210	0.043	ng	# 16
41) Benzo(g,h,i)perylene	26.753	276	214	0.040	ng	# 41

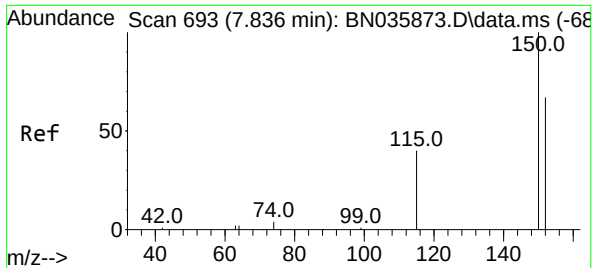
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011025\
Data File : BN035908.D
Acq On : 10 Jan 2025 18:56
Operator : RC/JU
Sample : Q1040-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

Quant Time: Jan 10 21:47:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

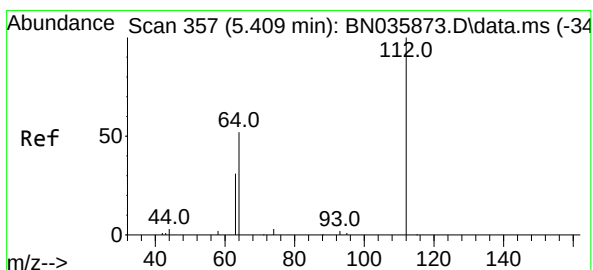
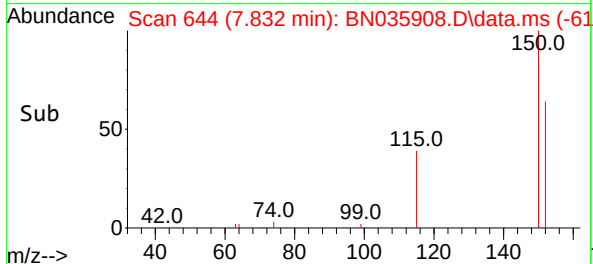
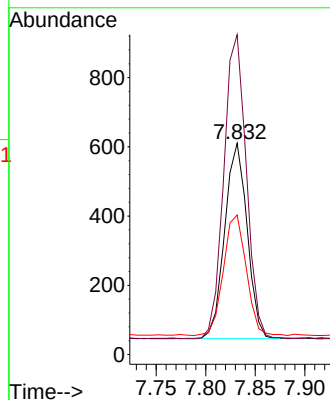
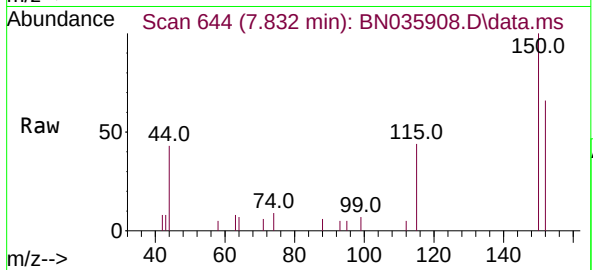




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.832 min Scan# 64
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

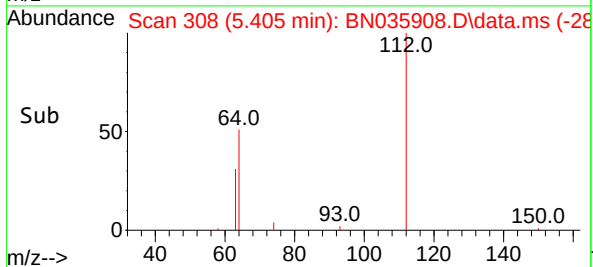
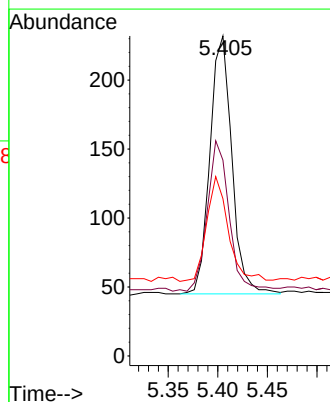
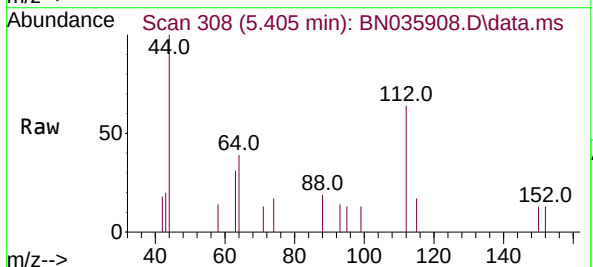
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

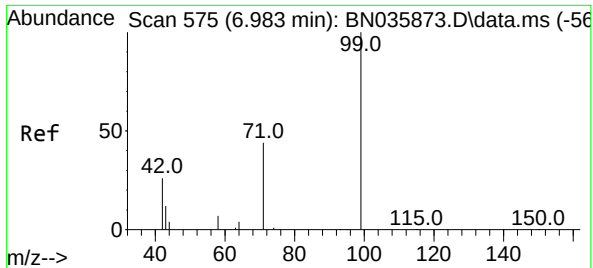
Tgt Ion:152 Resp: 888
Ion Ratio Lower Upper
152 100
150 151.5 117.8 176.6
115 66.1 51.0 76.4



#4
2-Fluorophenol
Concen: 0.132 ng
RT: 5.405 min Scan# 308
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Tgt Ion:112 Resp: 287
Ion Ratio Lower Upper
112 100
64 58.2 48.2 72.2
63 40.4 30.0 45.0

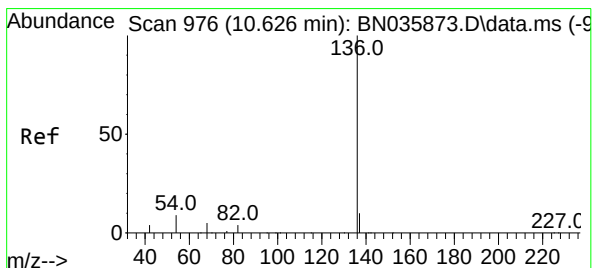
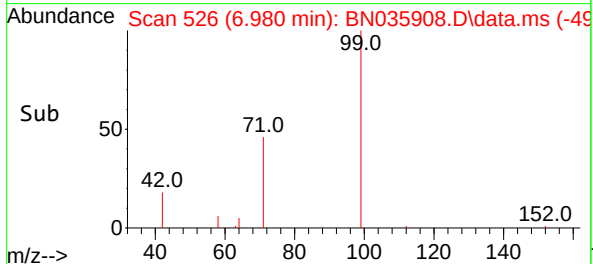
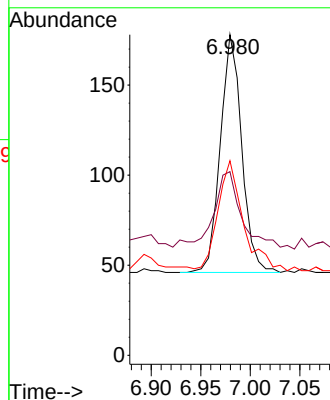
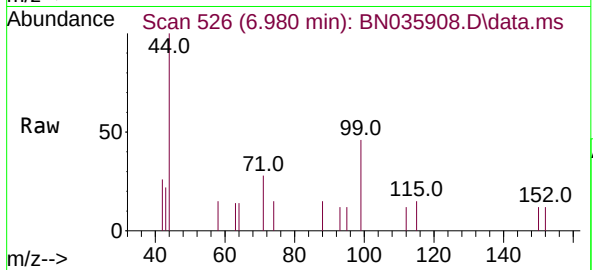




#5
Phenol-d6
Concen: 0.073 ng
RT: 6.980 min Scan# 51
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

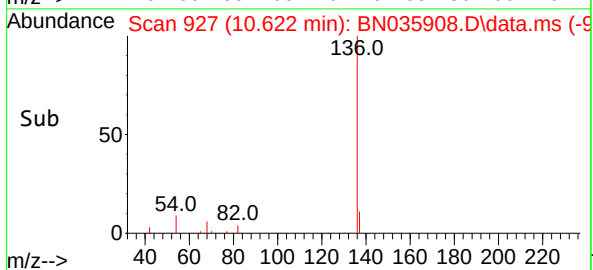
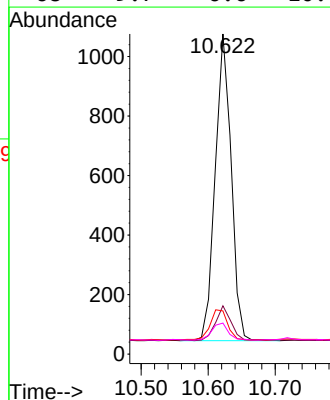
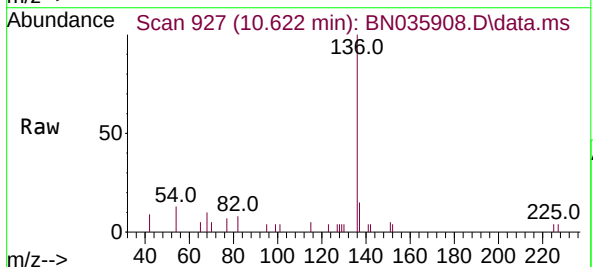
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

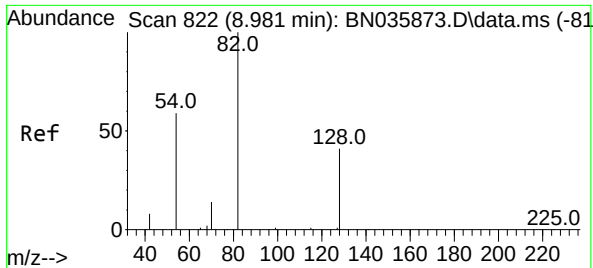
Tgt Ion	Ratio	Lower	Upper
99	100		
42	44.4	23.5	35.3#
71	55.1	35.5	53.3#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.622 min Scan# 927
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Tgt Ion	Ratio	Lower	Upper
136	100		
137	15.1	10.6	15.8
54	13.5	9.8	14.6
68	9.7	6.6	10.0

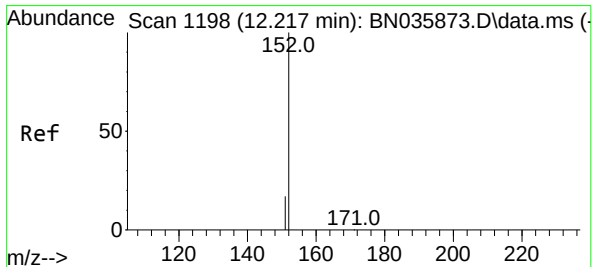
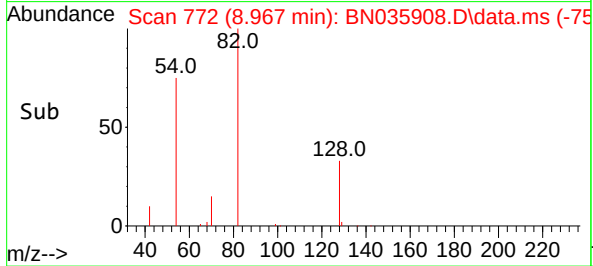
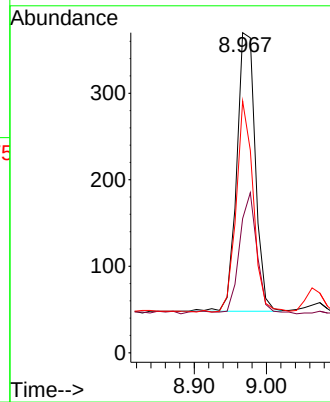
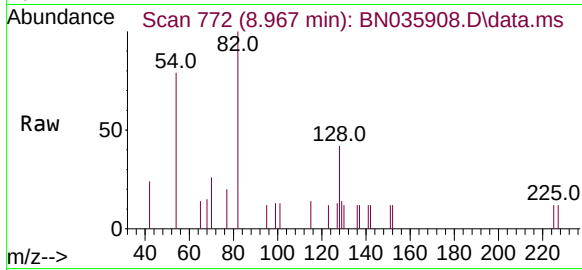




#8
Nitrobenzene-d5
Concen: 0.427 ng
RT: 8.967 min Scan# 71
Delta R.T. -0.014 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

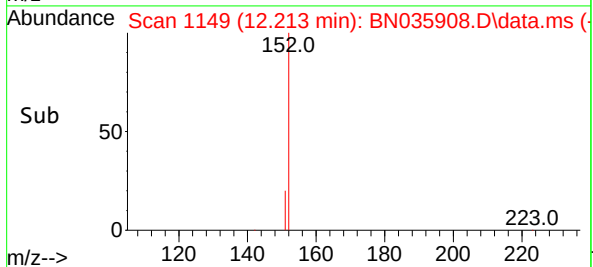
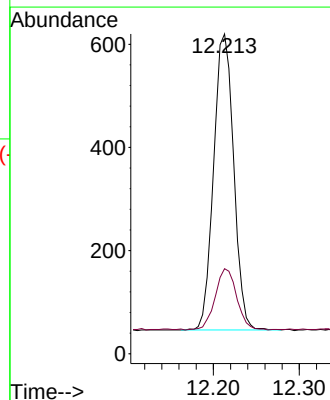
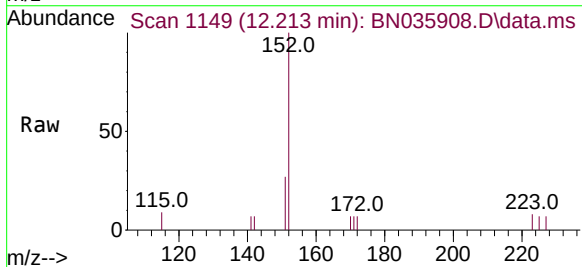
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

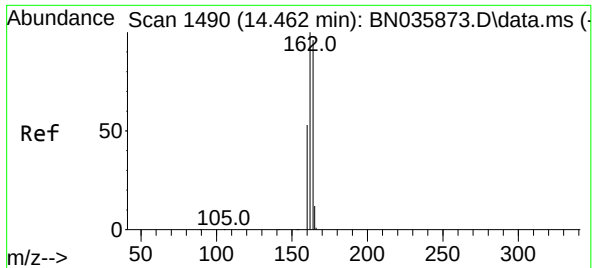
Tgt Ion: 82 Resp: 577
Ion Ratio Lower Upper
82 100
128 41.9 36.9 55.3
54 78.6 50.4 75.6#



#11
2-Methylnaphthalene-d10
Concen: 0.407 ng
RT: 12.213 min Scan# 1149
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Tgt Ion: 152 Resp: 930
Ion Ratio Lower Upper
152 100
151 22.4 17.0 25.6

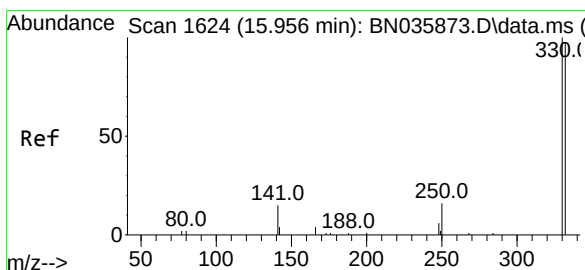
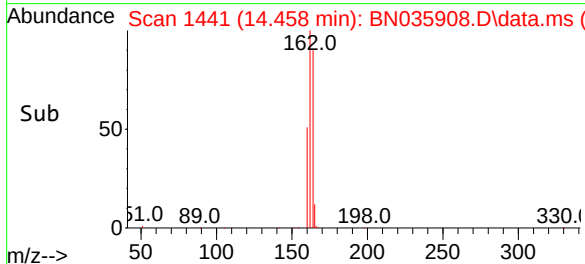
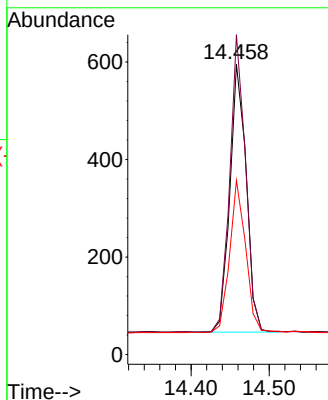
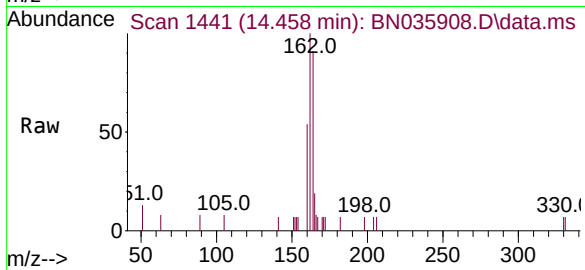




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.458 min Scan# 14
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

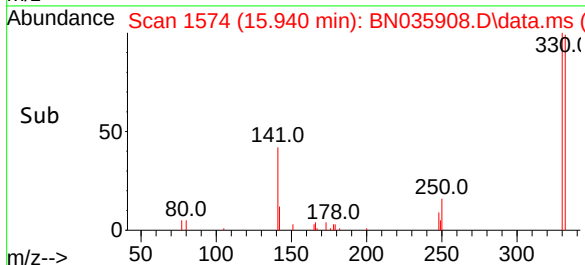
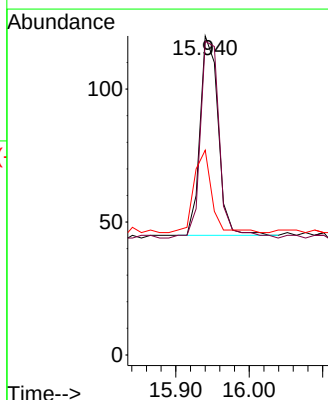
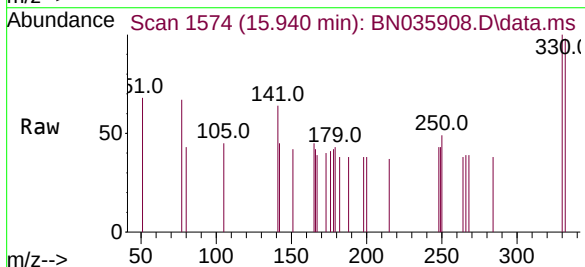
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

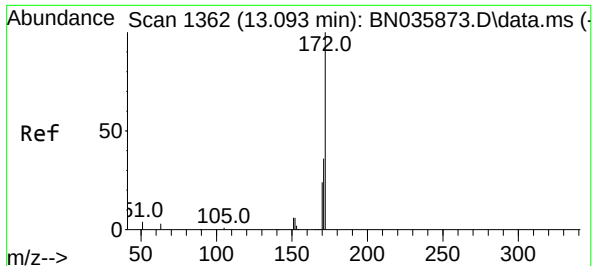
Tgt Ion:164 Resp: 800
Ion Ratio Lower Upper
164 100
162 110.3 83.1 124.7
160 60.0 46.0 69.0



#14
2,4,6-Tribromophenol
Concen: 0.333 ng
RT: 15.940 min Scan# 1574
Delta R.T. -0.016 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Tgt Ion:330 Resp: 128
Ion Ratio Lower Upper
330 100
332 104.7 77.2 115.8
141 40.6 31.6 47.4





#15

2-Fluorobiphenyl

Concen: 0.433 ng

RT: 13.090 min Scan# 11

Delta R.T. -0.004 min

Lab File: BN035908.D

Acq: 10 Jan 2025 18:56

Instrument :

BNA_N

ClientSampleId :

RW5-SP303-20250108

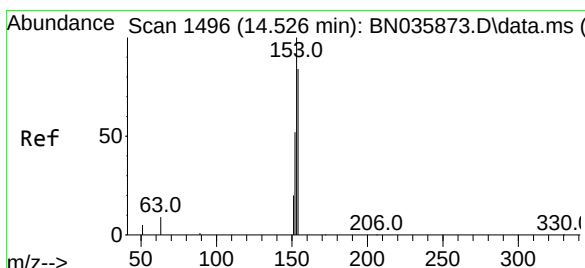
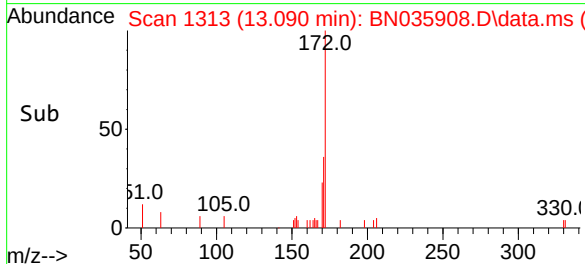
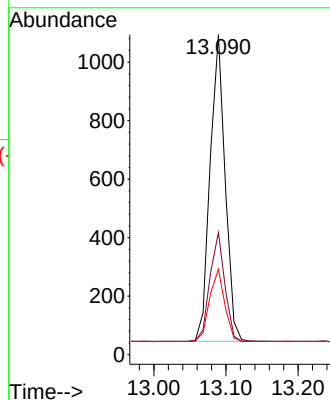
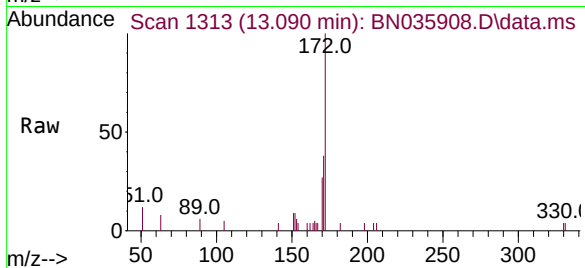
Tgt Ion:172 Resp: 1520

Ion Ratio Lower Upper

172 100

171 38.2 30.5 45.7

170 26.7 20.8 31.2



#17

Acenaphthene

Concen: 0.023 ng

RT: 14.522 min Scan# 1447

Delta R.T. -0.004 min

Lab File: BN035908.D

Acq: 10 Jan 2025 18:56

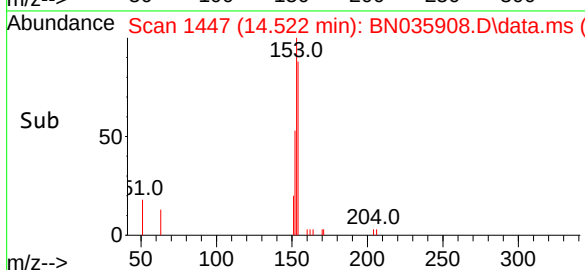
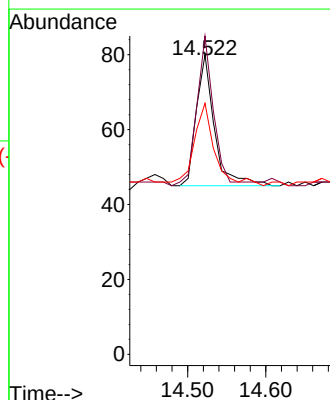
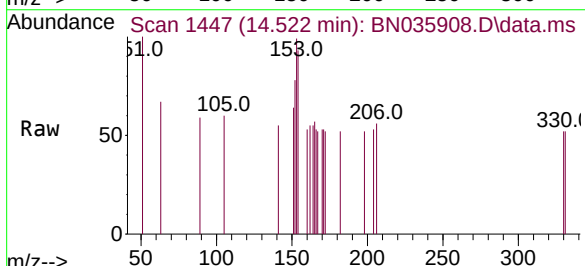
Tgt Ion:154 Resp: 56

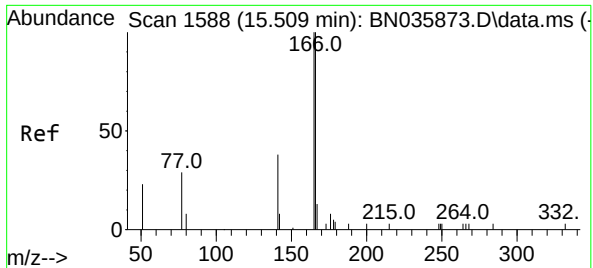
Ion Ratio Lower Upper

154 100

153 107.1 90.5 135.7

152 71.4 48.6 73.0

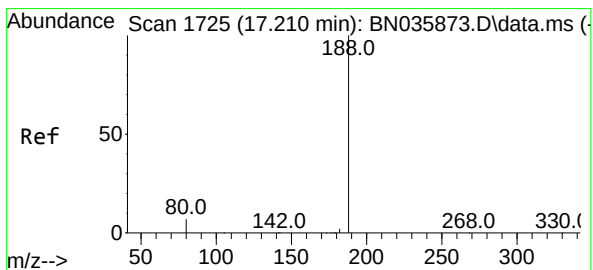
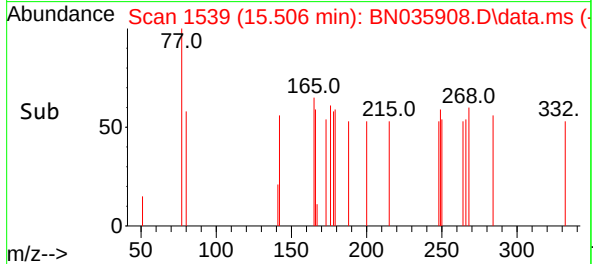
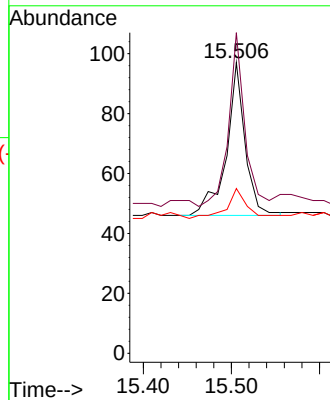
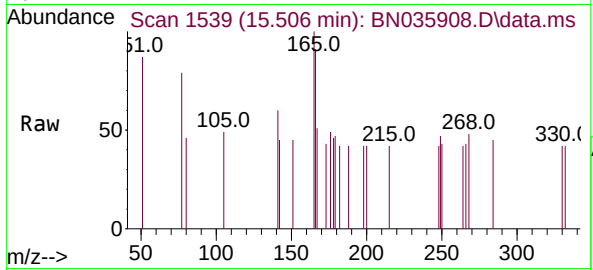




#18
Fluorene
Concen: 0.028 ng
RT: 15.506 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

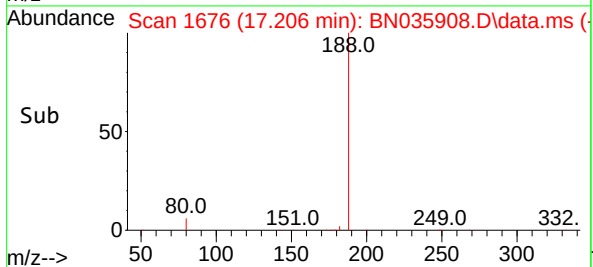
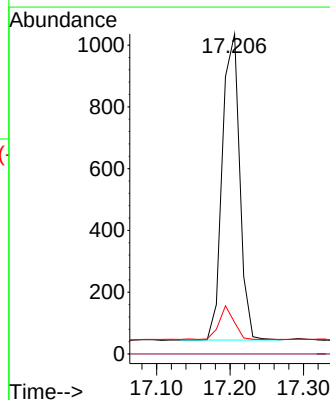
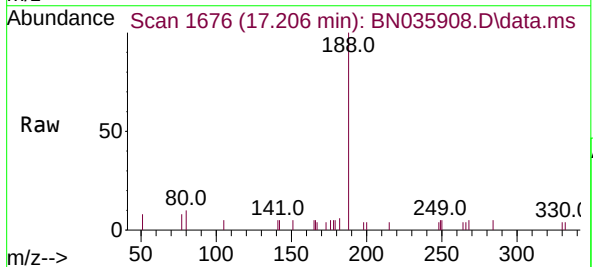
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

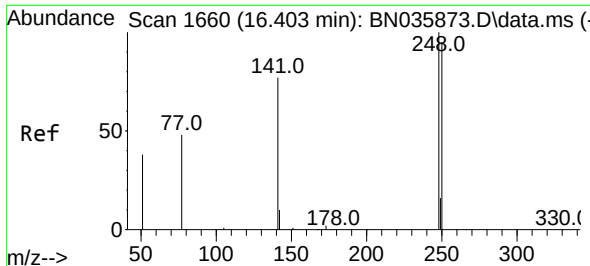
Tgt Ion:166 Resp: 75
Ion Ratio Lower Upper
166 100
165 98.7 80.6 120.8
167 21.3 11.4 17.0#



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.206 min Scan# 1676
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Tgt Ion:188 Resp: 1628
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.8 7.3 10.9

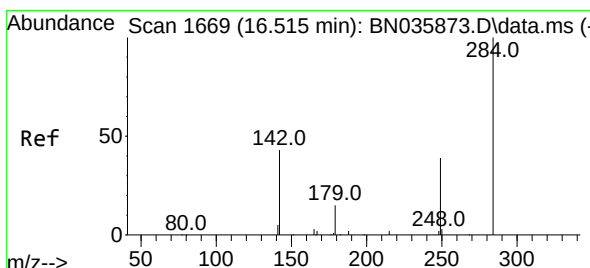
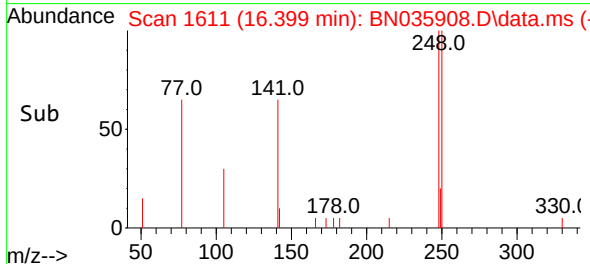
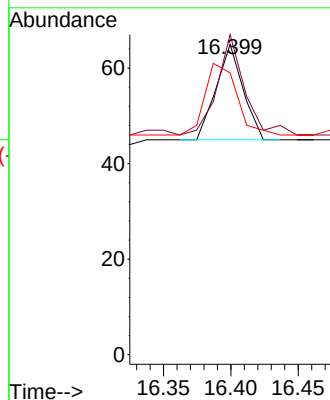
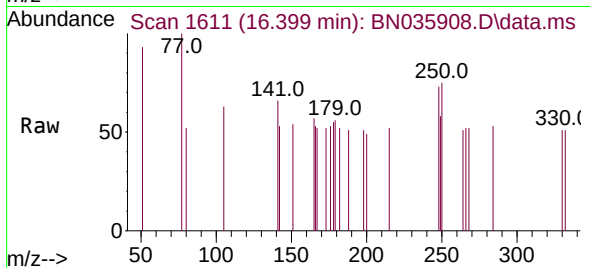




#21
4-Bromophenyl-phenylether
Concen: 0.025 ng
RT: 16.399 min Scan# 1620
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

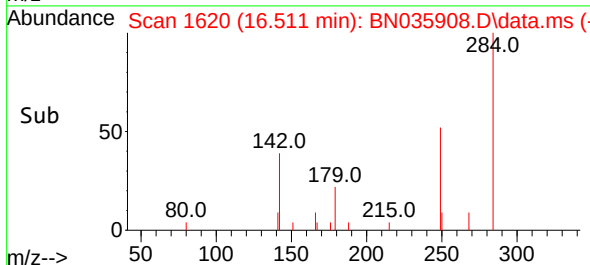
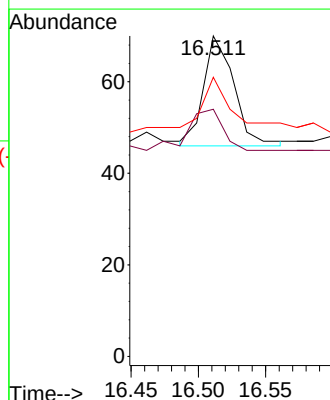
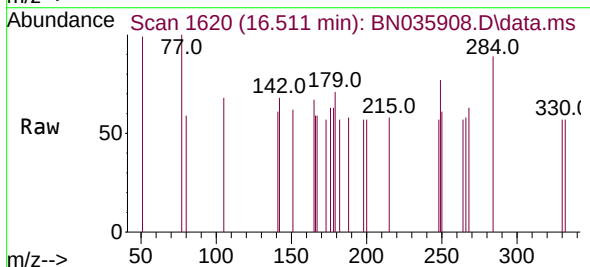
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

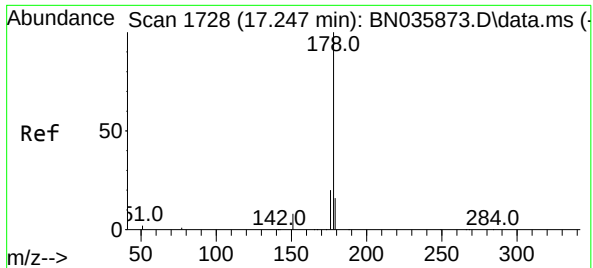
Tgt Ion:248 Resp: 28
Ion Ratio Lower Upper
248 100
250 103.1 76.8 115.2
141 90.8 63.6 95.4



#22
Hexachlorobenzene
Concen: 0.025 ng
RT: 16.511 min Scan# 1620
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Tgt Ion:284 Resp: 38
Ion Ratio Lower Upper
284 100
142 42.1 31.4 47.0
249 73.7 27.8 41.8#

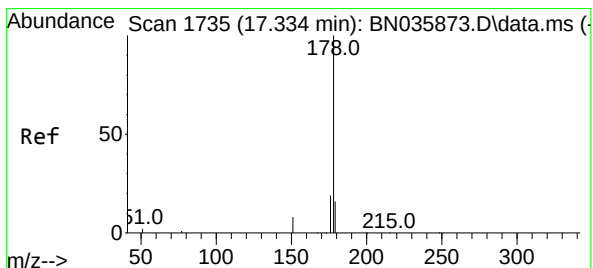
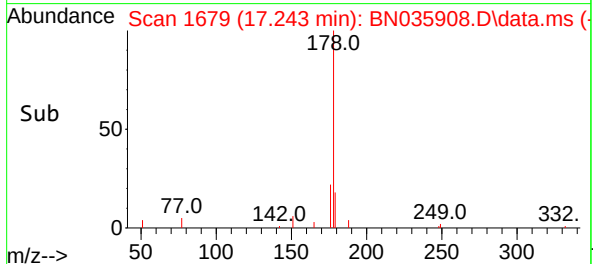
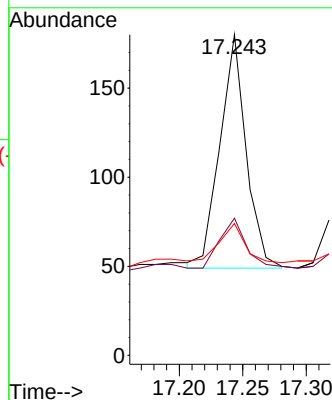
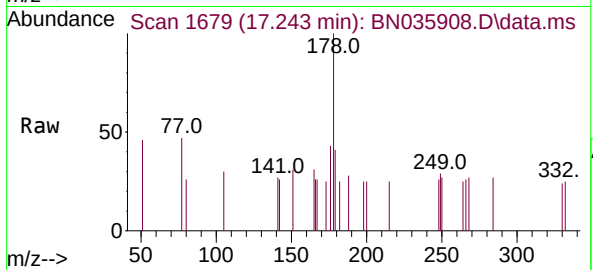




#25
Phenanthrene
Concen: 0.040 ng m
RT: 17.243 min Scan# 1686
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

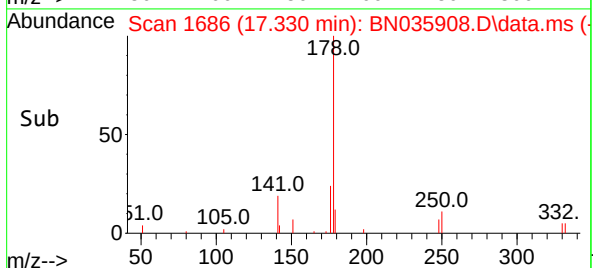
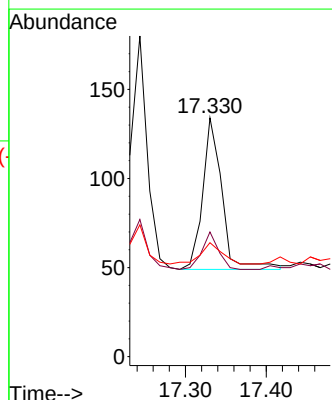
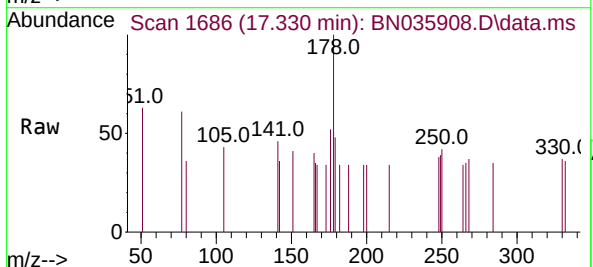
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

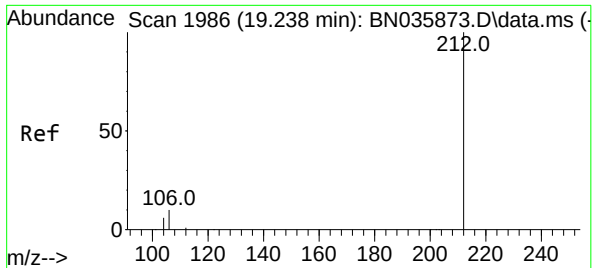
Tgt Ion:178 Resp: 188
Ion Ratio Lower Upper
178 100
176 16.0 15.9 23.9
179 11.7 12.9 19.3#



#26
Anthracene
Concen: 0.033 ng
RT: 17.330 min Scan# 1686
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Tgt Ion:178 Resp: 141
Ion Ratio Lower Upper
178 100
176 21.3 15.0 22.6
179 17.7 13.0 19.6

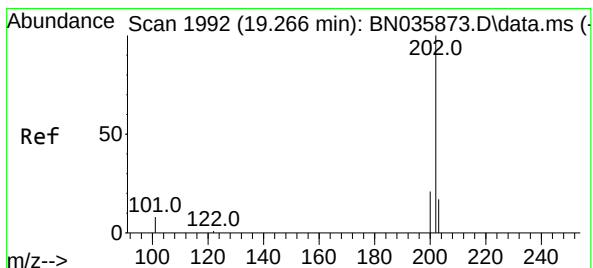
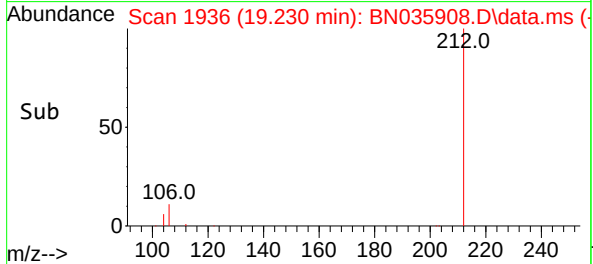
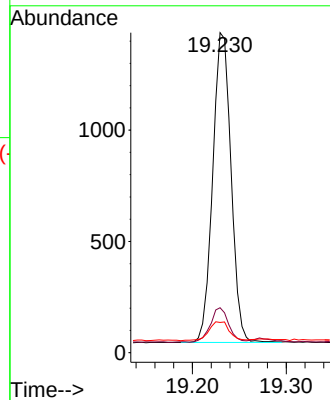
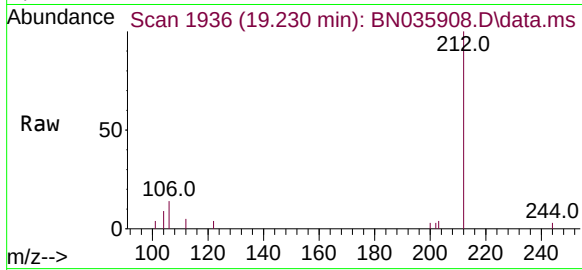




#27
Fluoranthene-d10
Concen: 0.467 ng
RT: 19.230 min Scan# 1942
Delta R.T. -0.008 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

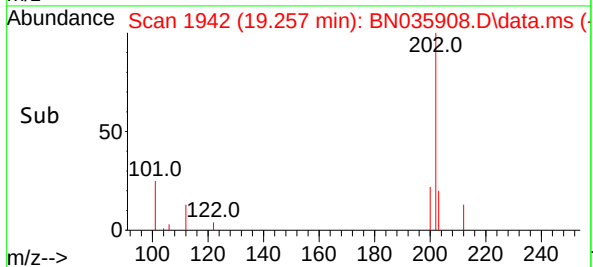
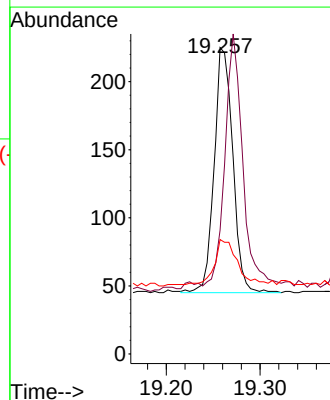
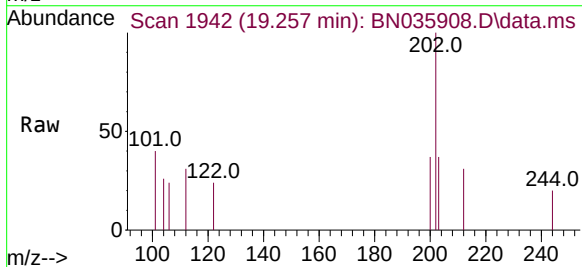
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

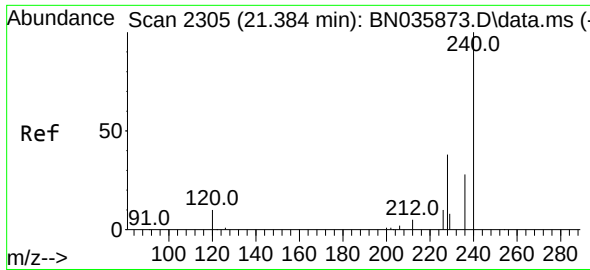
Tgt Ion	Ratio	Lower	Upper
212	100		
106	11.1	9.0	13.6
104	6.8	5.4	8.2



#28
Fluoranthene
Concen: 0.045 ng
RT: 19.257 min Scan# 1942
Delta R.T. -0.008 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Tgt Ion	Ratio	Lower	Upper
202	100		
101	97.6	7.2	10.8#
203	26.1	13.9	20.9#





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.385 min Scan# 21

Delta R.T. 0.001 min

Lab File: BN035908.D

Acq: 10 Jan 2025 18:56

Instrument :

BNA_N

ClientSampleId :

RW5-SP303-20250108

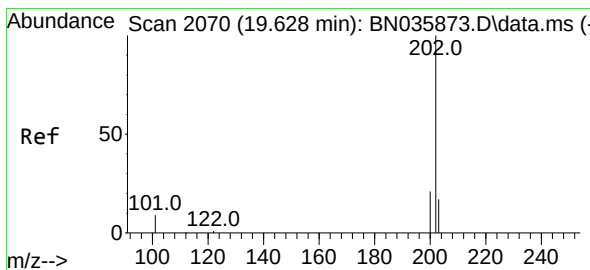
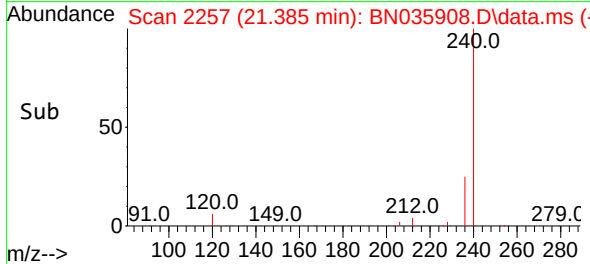
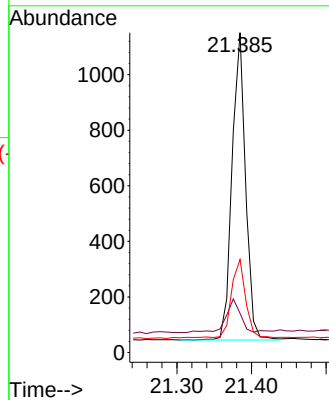
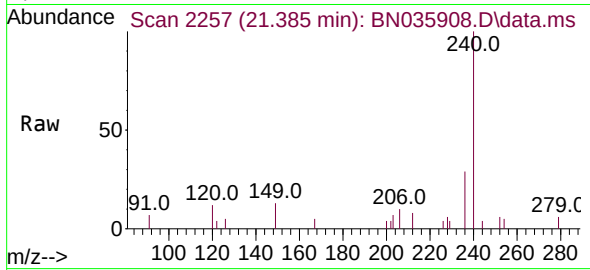
Tgt Ion:240 Resp: 1388

Ion Ratio Lower Upper

240 100

120 12.3 11.1 16.7

236 29.1 24.6 36.8



#30

Pyrene

Concen: 0.043 ng

RT: 19.624 min Scan# 2021

Delta R.T. -0.004 min

Lab File: BN035908.D

Acq: 10 Jan 2025 18:56

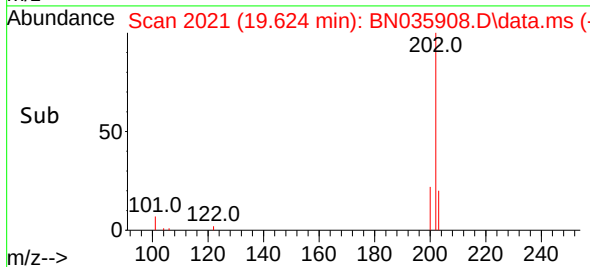
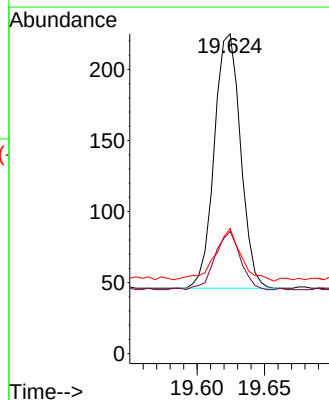
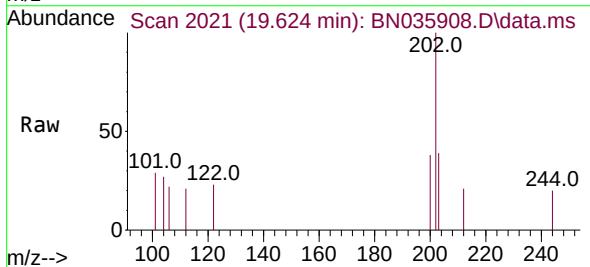
Tgt Ion:202 Resp: 242

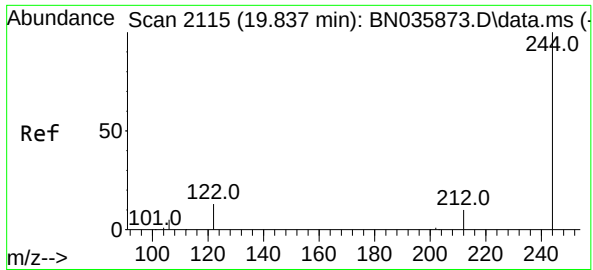
Ion Ratio Lower Upper

202 100

200 22.3 17.0 25.6

203 20.7 14.6 22.0

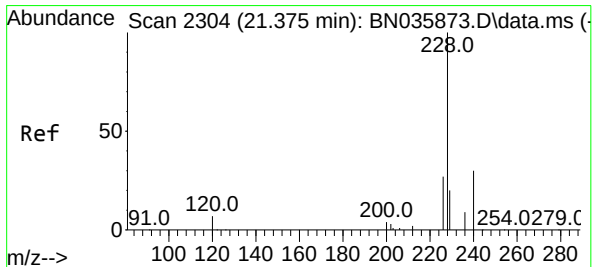
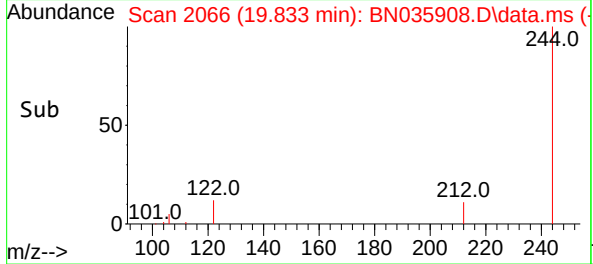
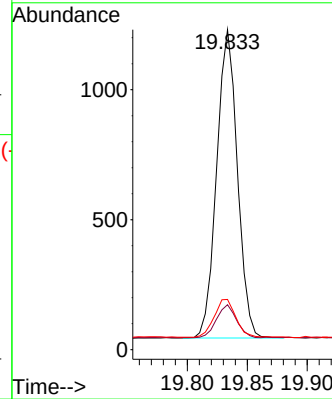
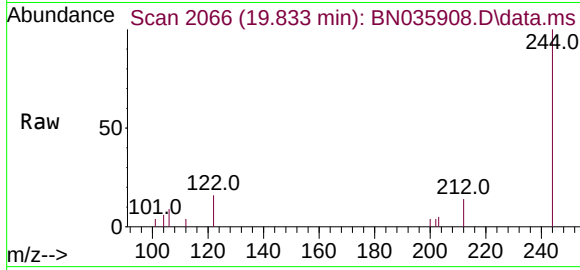




#31
Terphenyl-d14
Concen: 0.515 ng
RT: 19.833 min Scan# 2066
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

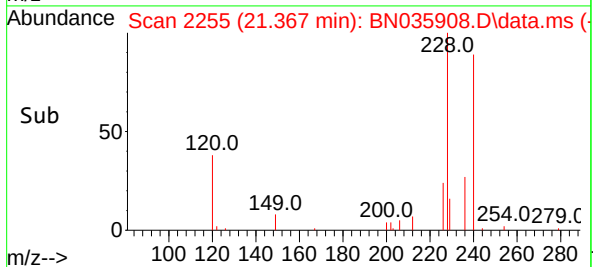
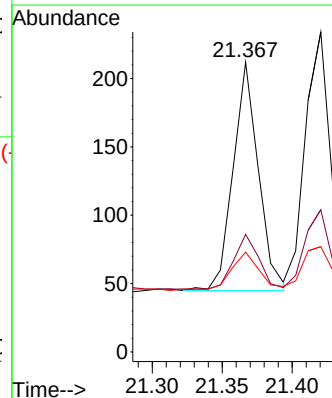
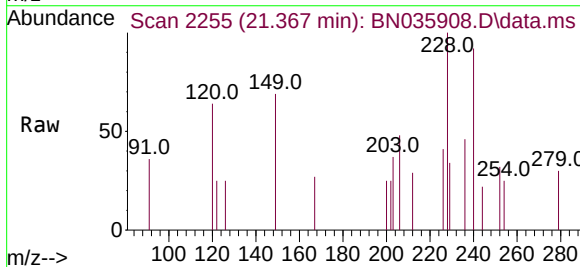
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

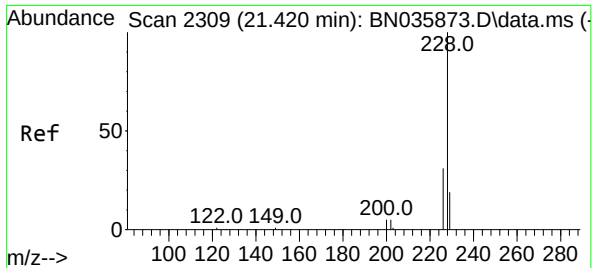
Tgt Ion:244	Resp:	1425
Ion Ratio	Lower	Upper
244	100	
212	14.1	10.1 15.1
122	15.7	12.2 18.4



#32
Benzo(a)anthracene
Concen: 0.043 ng
RT: 21.367 min Scan# 2255
Delta R.T. -0.008 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Tgt Ion:228	Resp:	209
Ion Ratio	Lower	Upper
228	100	
226	40.6	22.7 34.1#
229	34.4	17.1 25.7#

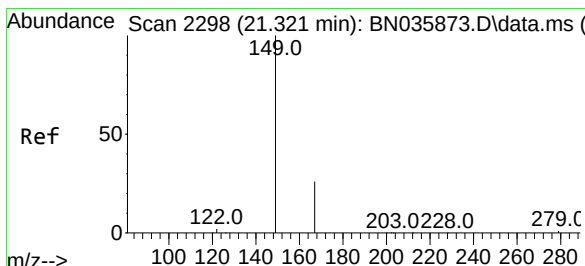
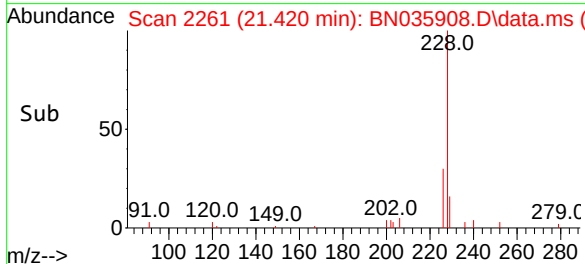
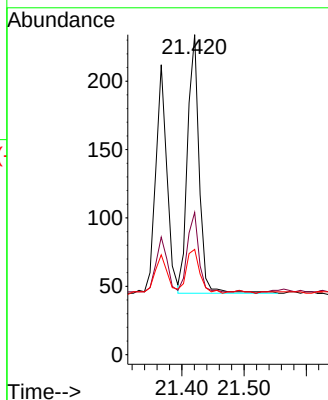
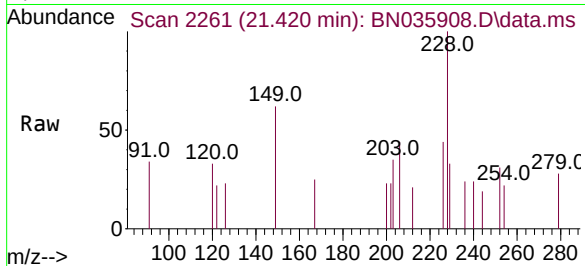




#33
Chrysene
Concen: 0.048 ng
RT: 21.420 min Scan# 2149
Delta R.T. 0.001 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

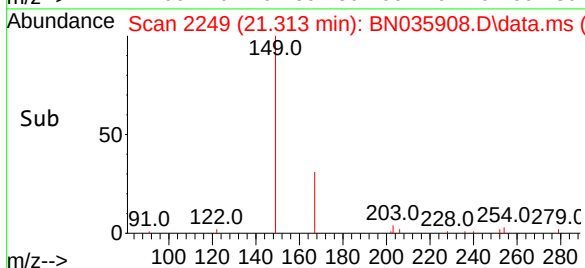
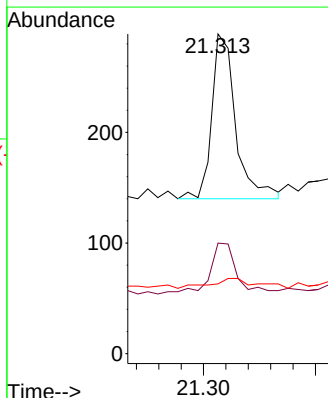
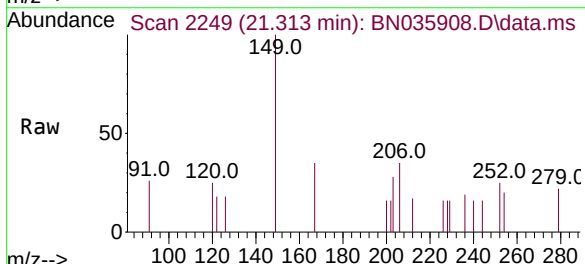
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

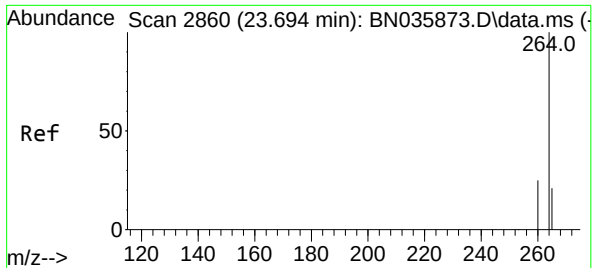
Tgt Ion	Ratio	Lower	Upper
228	100		
226	44.4	25.2	37.8#
229	32.9	16.0	24.0#



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.111 ng
RT: 21.313 min Scan# 2249
Delta R.T. -0.008 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Tgt Ion	Ratio	Lower	Upper
149	100		
167	29.4	21.4	32.0
279	11.3	3.0	4.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.686 min Scan# 21

Delta R.T. -0.008 min

Lab File: BN035908.D

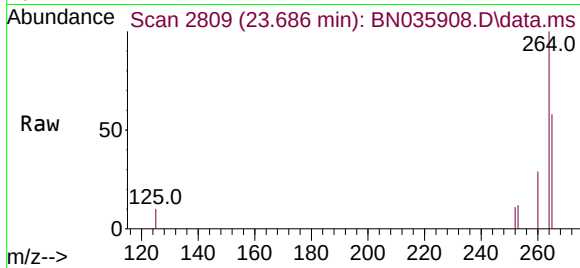
Acq: 10 Jan 2025 18:56

Instrument :

BNA_N

ClientSampleId :

RW5-SP303-20250108



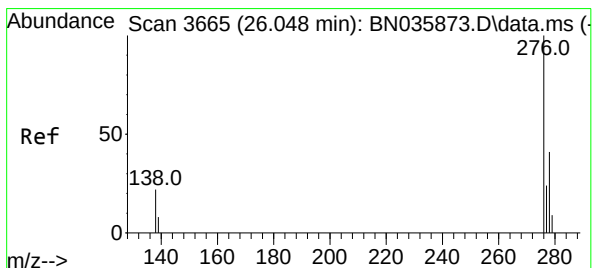
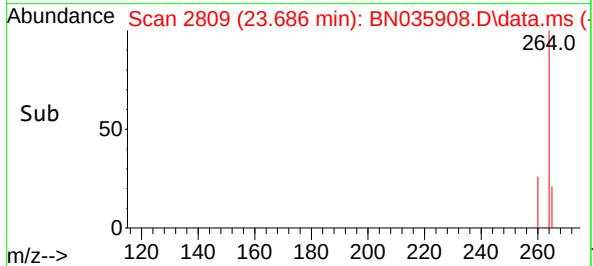
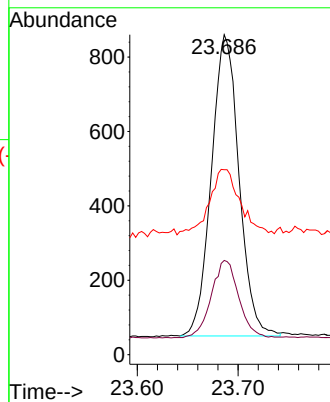
Tgt Ion:264 Resp: 1542

Ion Ratio Lower Upper

264 100

260 29.4 21.7 32.5

265 57.8 33.9 50.9#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.040 ng

RT: 26.037 min Scan# 3613

Delta R.T. -0.011 min

Lab File: BN035908.D

Acq: 10 Jan 2025 18:56

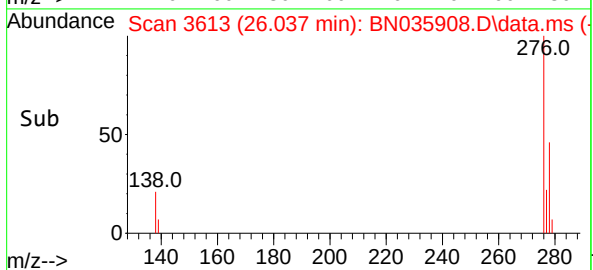
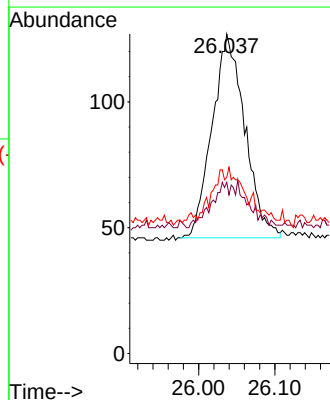
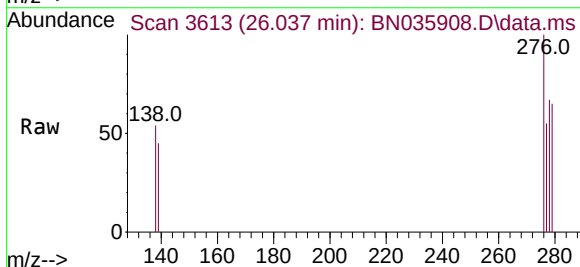
Tgt Ion:276 Resp: 241

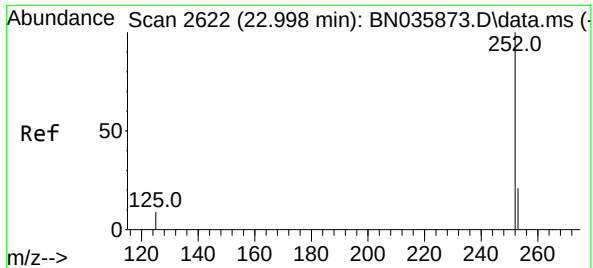
Ion Ratio Lower Upper

276 100

138 12.0 18.9 28.3#

277 10.0 19.5 29.3#





#37

Benzo(b)fluoranthene

Concen: 0.046 ng

RT: 22.990 min Scan# 21

Delta R.T. -0.008 min

Lab File: BN035908.D

Acq: 10 Jan 2025 18:56

Instrument :

BNA_N

ClientSampleId :

RW5-SP303-20250108

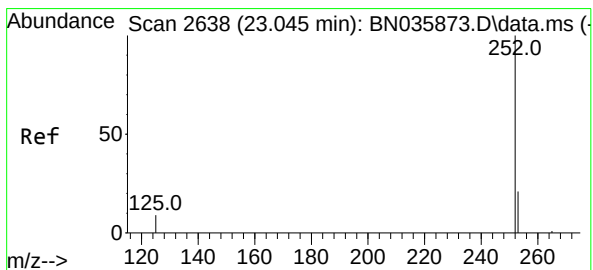
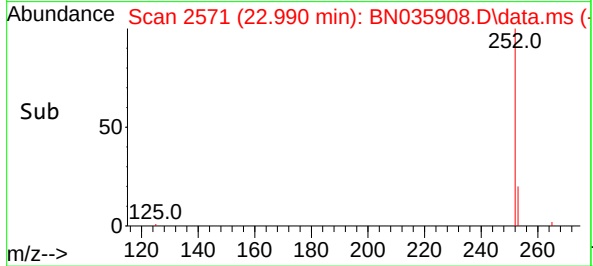
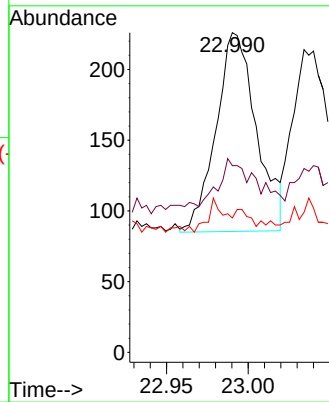
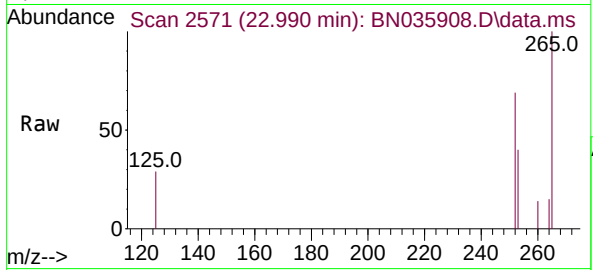
Tgt Ion:252 Resp: 242

Ion Ratio Lower Upper

252 100

253 58.4 20.1 30.1#

125 42.0 9.9 14.9#



#38

Benzo(k)fluoranthene

Concen: 0.039 ng

RT: 23.034 min Scan# 2586

Delta R.T. -0.011 min

Lab File: BN035908.D

Acq: 10 Jan 2025 18:56

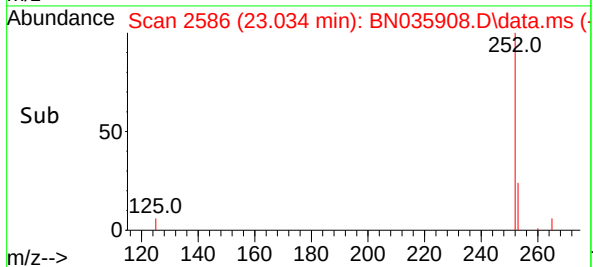
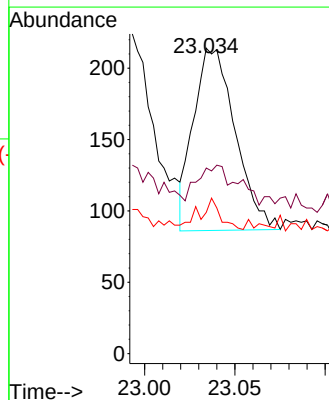
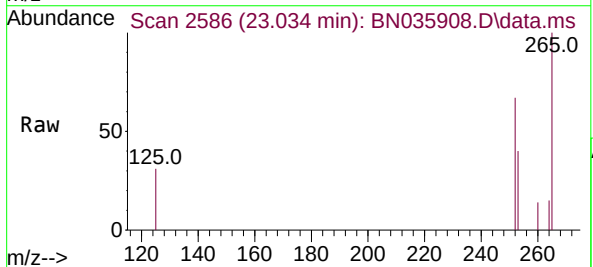
Tgt Ion:252 Resp: 205

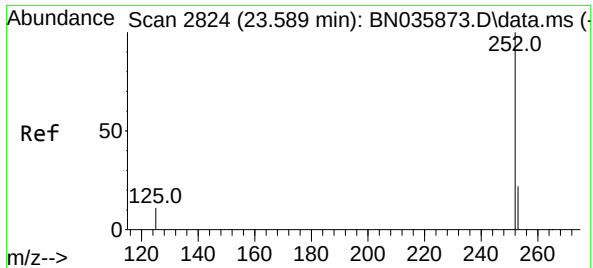
Ion Ratio Lower Upper

252 100

253 60.7 20.5 30.7#

125 46.3 10.6 16.0#





#39

Benzo(a)pyrene

Concen: 0.043 ng

RT: 23.587 min Scan# 21

Delta R.T. -0.002 min

Lab File: BN035908.D

Acq: 10 Jan 2025 18:56

Instrument :

BNA_N

ClientSampleId :

RW5-SP303-20250108

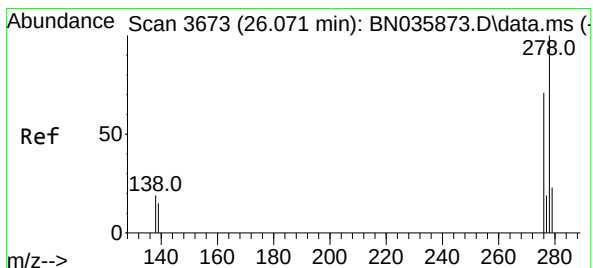
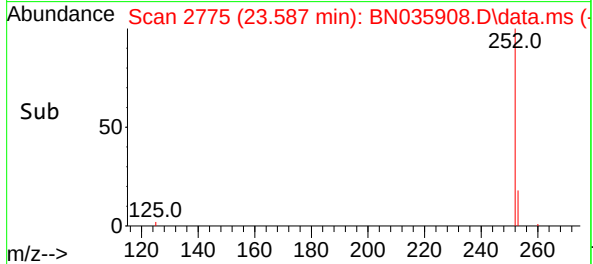
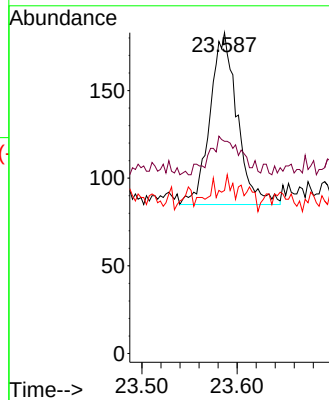
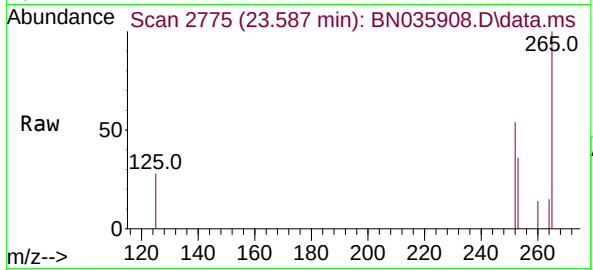
Tgt Ion:252 Resp: 195

Ion Ratio Lower Upper

252 100

253 66.1 21.5 32.3#

125 50.8 12.6 19.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.043 ng

RT: 26.063 min Scan# 3622

Delta R.T. -0.008 min

Lab File: BN035908.D

Acq: 10 Jan 2025 18:56

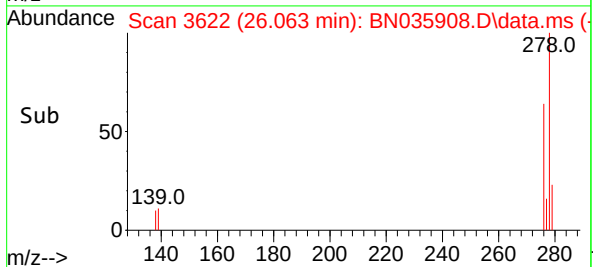
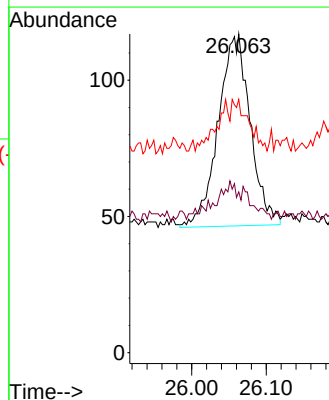
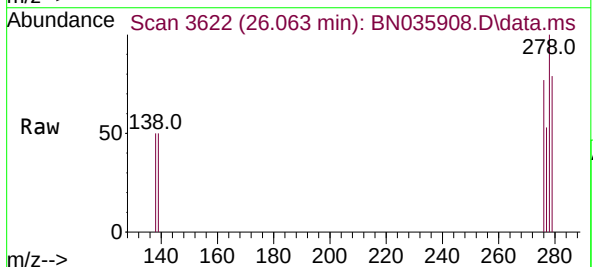
Tgt Ion:278 Resp: 210

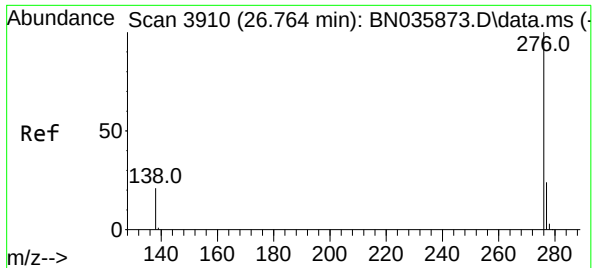
Ion Ratio Lower Upper

278 100

139 50.4 15.9 23.9#

279 79.5 23.0 34.4#





#41

Benzo(g,h,i)perylene

Concen: 0.040 ng

RT: 26.753 min Scan# 31

Delta R.T. -0.011 min

Lab File: BN035908.D

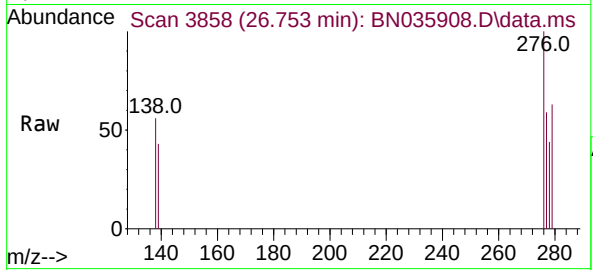
Acq: 10 Jan 2025 18:56

Instrument :

BNA_N

ClientSampleId :

RW5-SP303-20250108



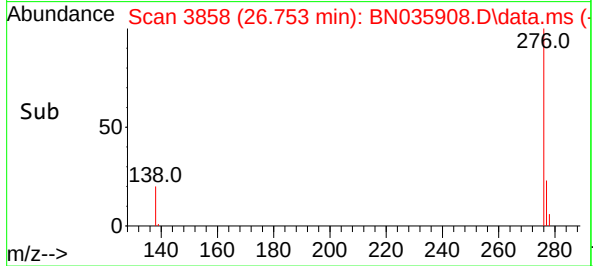
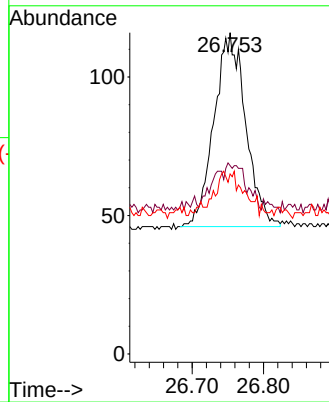
Tgt Ion:276 Resp: 214

Ion Ratio Lower Upper

276 100

277 58.6 22.8 34.2#

138 56.0 20.1 30.1#





CALIBRATION SUMMARY

- 1
- 2
- 3
- 4
- 5
- 6
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- 17
- 18

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN010225.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Thu Jan 02 15:39:17 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN035871.D 0.2 =BN035872.D 0.4 =BN035873.D 0.8 =BN035874.D 1.6 =BN035875.D 3.2 =BN035876.D 5.0 =BN035877.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	0.454	0.422	0.373	0.388	0.391	0.377	0.377	0.397	7.52
3)	n-Nitrosodimet...	0.707	0.674	0.676	0.690	0.722	0.690	0.692	0.693	2.45
4) S	2-Fluorophenol	1.031	1.009	0.952	0.958	0.997	0.956	0.968	0.981	3.13
5) S	Phenol-d6	1.351	1.255	1.180	1.197	1.215	1.163	1.170	1.219	5.44
6)	bis(2-Chloroet...	1.001	0.946	0.936	0.913	0.938	0.886	0.879	0.929	4.43
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.346	0.307	0.296	0.302	0.319	0.317	0.330	0.317	5.48
9)	Naphthalene	1.163	1.094	1.086	1.096	1.167	1.113	1.141	1.123	3.00
10)	Hexachlorobuta...	0.368	0.354	0.353	0.363	0.382	0.362	0.369	0.365	2.74
11) SURR2	Methylnaphth...	0.547	0.536	0.527	0.519	0.556	0.524	0.540	0.536	2.50
12)	2-Methylnaphth...	0.691	0.654	0.685	0.680	0.731	0.701	0.722	0.695	3.75
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.164	0.165	0.189	0.189	0.207	0.211	0.220	0.192	11.39
15) S	2-Fluorobiphenyl	1.776	1.675	1.708	1.765	1.823	1.779	1.762	1.755	2.79
16)	Acenaphthylene	1.890	1.766	1.819	1.839	1.962	1.948	1.963	1.884	4.15
17)	Acenaphthene	1.187	1.162	1.198	1.232	1.300	1.275	1.291	1.235	4.43
18)	Fluorene	1.341	1.270	1.307	1.298	1.419	1.444	1.432	1.359	5.28
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.058	0.066	0.067	0.069	0.076	0.076	0.074	0.069	9.51
21)	4-Bromophenyl-...	0.265	0.269	0.268	0.267	0.290	0.283	0.279	0.274	3.47
22)	Hexachlorobenzene	0.393	0.369	0.356	0.362	0.394	0.373	0.371	0.374	3.93
23)	Atrazine	0.169	0.191	0.176	0.171	0.198	0.190	0.193	0.184	6.36
24)	Pentachlorophenol	0.141	0.101	0.118	0.122	0.143	0.148	0.153	0.132	14.40
25)	Phenanthrene	1.131	1.132	1.142	1.144	1.228	1.193	1.200	1.167	3.36
26)	Anthracene	0.996	0.998	1.008	1.033	1.137	1.132	1.130	1.062	6.34
27) SURR	Fluoranthene-d10	0.988	0.952	0.978	0.959	1.028	1.010	1.035	0.993	3.28
28)	Fluoranthene	1.268	1.253	1.330	1.312	1.441	1.446	1.475	1.361	6.71
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.606	1.620	1.571	1.612	1.711	1.621	1.627	1.624	2.63
31) S	Terphenyl-d14	0.814	0.813	0.790	0.777	0.828	0.776	0.781	0.797	2.64
32)	Benzo(a)anthra...	1.379	1.382	1.344	1.407	1.461	1.427	1.466	1.410	3.19
33)	Chrysene	1.484	1.458	1.441	1.451	1.541	1.478	1.471	1.475	2.24
34)	Bis(2-ethylhex...	0.691	0.583	0.582	0.541	0.569	0.519	0.530	0.574	10.05
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN010225.M

36)	Indeno(1,2,3-c...	1.428	1.461	1.414	1.578	1.697	1.712	1.751	1.577	9.15
37)	Benzo(b)fluora...	1.337	1.304	1.294	1.351	1.466	1.420	1.447	1.374	5.06
38)	Benzo(k)fluora...	1.279	1.254	1.251	1.344	1.469	1.442	1.482	1.360	7.55
39) C	Benzo(a)pyrene	1.099	1.181	1.086	1.163	1.270	1.244	1.284	1.190	6.71
40)	Dibenzo(a,h)an...	1.145	1.152	1.106	1.251	1.363	1.365	1.402	1.255	9.75
41)	Benzo(g,h,i)pe...	1.335	1.316	1.245	1.407	1.490	1.501	1.530	1.403	7.72

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
 Data File : BN035871.D
 Acq On : 02 Jan 2025 11:28
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Jan 02 15:48:52 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

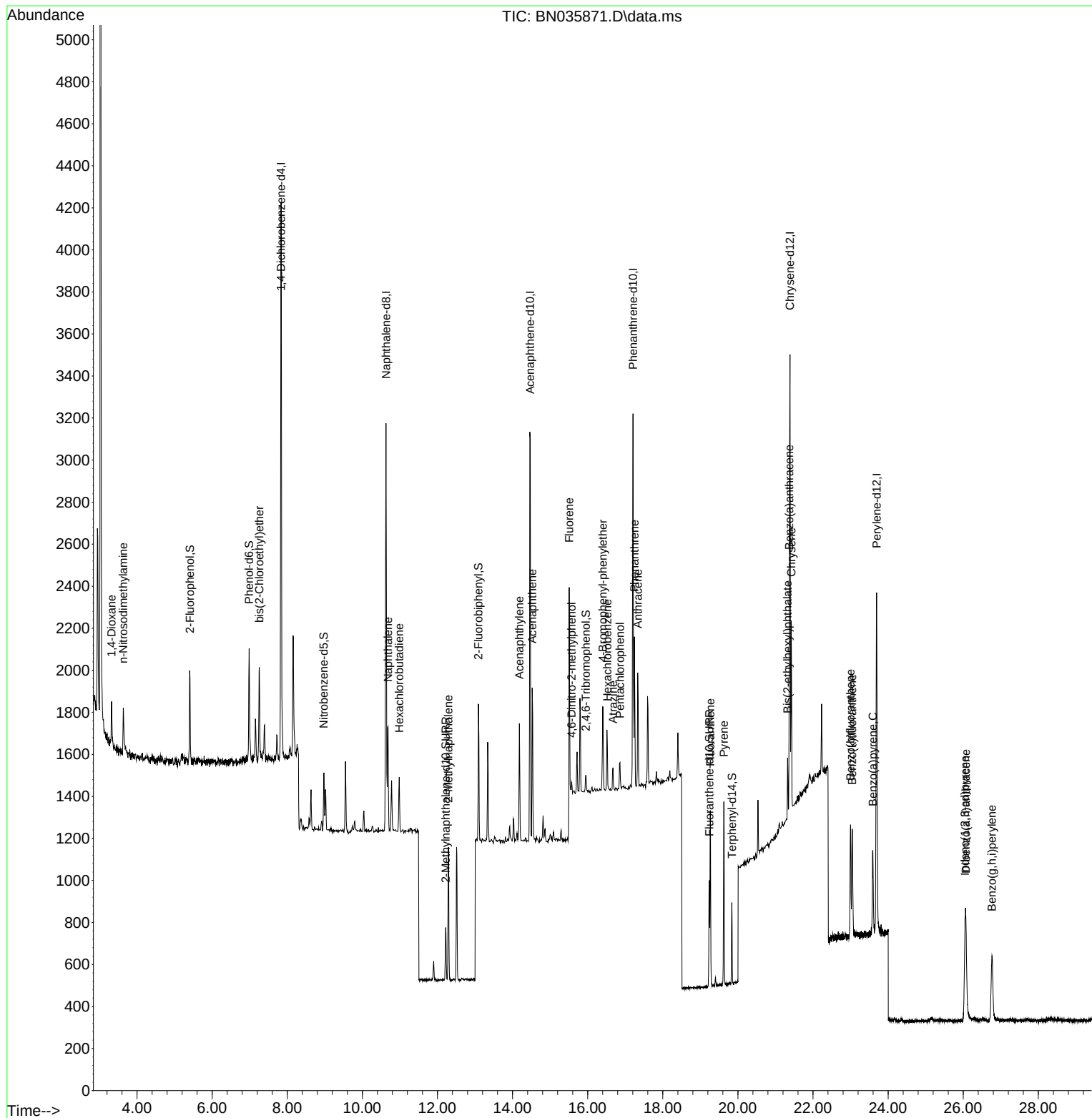
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.836	152	1199	0.400	ng	0.00
7) Naphthalene-d8	10.629	136	2391	0.400	ng	0.00
13) Acenaphthene-d10	14.470	164	1196	0.400	ng	0.00
19) Phenanthrene-d10	17.208	188	2268	0.400	ng	0.00
29) Chrysene-d12	21.386	240	1828	0.400	ng	0.00
35) Perylene-d12	23.694	264	2148	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.409	112	309	0.105	ng	0.00
5) Phenol-d6	6.983	99	405	0.111	ng	0.00
8) Nitrobenzene-d5	8.974	82	207	0.109	ng	0.00
11) 2-Methylnaphthalene-d10	12.220	152	327	0.102	ng	0.00
14) 2,4,6-Tribromophenol	15.954	330	49	0.085	ng	0.00
15) 2-Fluorobiphenyl	13.091	172	531	0.101	ng	0.00
27) Fluoranthene-d10	19.236	212	560	0.099	ng	0.00
31) Terphenyl-d14	19.840	244	372	0.102	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.322	88	136	0.114	ng	# 93
3) n-Nitrosodimethylamine	3.632	42	212	0.102	ng	# 84
6) bis(2-Chloroethyl)ether	7.258	93	300	0.108	ng	95
9) Naphthalene	10.683	128	695	0.104	ng	# 81
10) Hexachlorobutadiene	10.981	225	220	0.101	ng	# 98
12) 2-Methylnaphthalene	12.291	142	413	0.099	ng	96
16) Acenaphthylene	14.182	152	565	0.100	ng	98
17) Acenaphthene	14.524	154	355	0.096	ng	97
18) Fluorene	15.507	166	401	0.099	ng	96
20) 4,6-Dinitro-2-methylph...	15.569	198	33	0.084	ng	# 33
21) 4-Bromophenyl-phenylether	16.401	248	150	0.096	ng	91
22) Hexachlorobenzene	16.525	284	223	0.105	ng	# 90
23) Atrazine	16.674	200	96	0.092	ng	# 78
24) Pentachlorophenol	16.860	266	80	0.107	ng	96
25) Phenanthrene	17.245	178	641	0.097	ng	94
26) Anthracene	17.332	178	565	0.094	ng	97
28) Fluoranthene	19.264	202	719	0.093	ng	98
30) Pyrene	19.626	202	734	0.099	ng	98
32) Benzo(a)anthracene	21.368	228	630	0.098	ng	# 87
33) Chrysene	21.422	228	678	0.101	ng	# 90
34) Bis(2-ethylhexyl)phtha...	21.324	149	316	0.121	ng	94
36) Indeno(1,2,3-cd)pyrene	26.047	276	767	0.091	ng	96
37) Benzo(b)fluoranthene	23.001	252	718	0.097	ng	# 69
38) Benzo(k)fluoranthene	23.045	252	687	0.094	ng	# 68
39) Benzo(a)pyrene	23.591	252	590	0.092	ng	# 61
40) Dibenzo(a,h)anthracene	26.071	278	615	0.091	ng	# 65
41) Benzo(g,h,i)perylene	26.764	276	717	0.095	ng	# 71

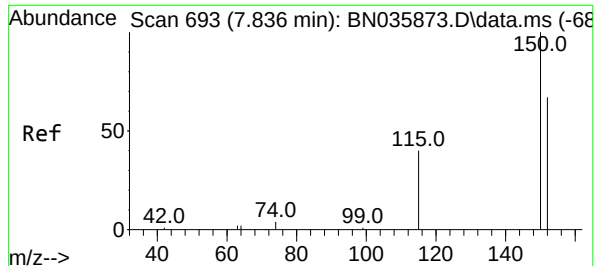
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Data File : BN035871.D
Acq On : 02 Jan 2025 11:28
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

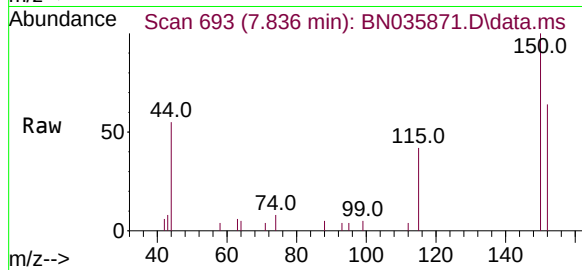
Quant Time: Jan 02 15:48:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration



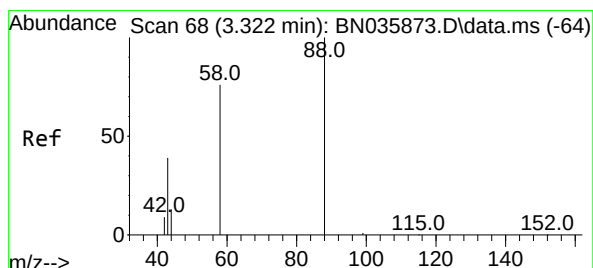
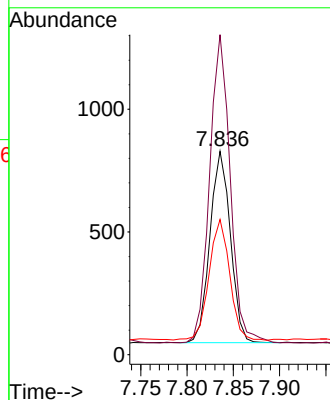
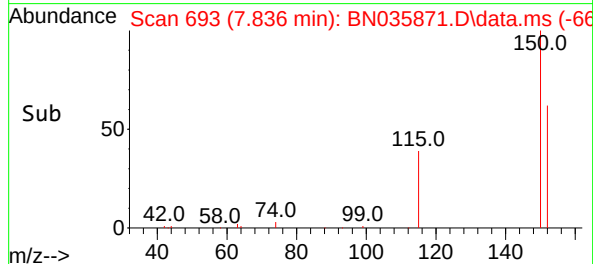


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.836 min Scan# 693
Delta R.T. -0.000 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

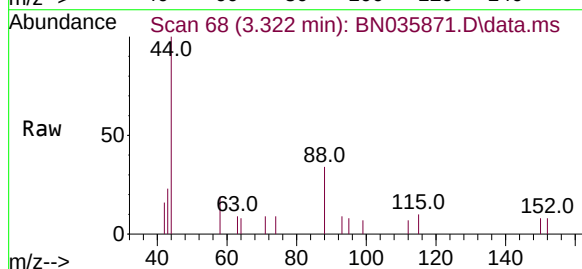
Instrument :
BNA_N
ClientSampleId :
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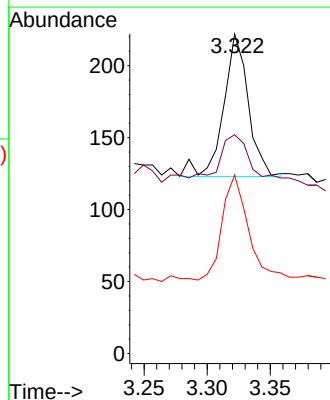
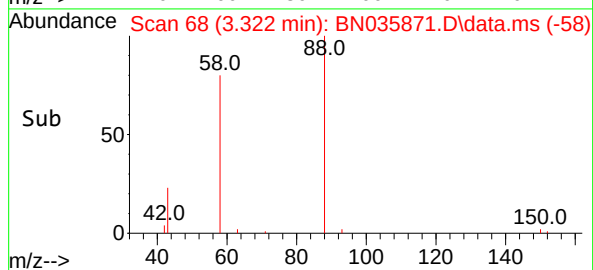
Tgt Ion: 152 Resp: 1199
Ion Ratio Lower Upper
152 100
150 157.3 117.8 176.6
115 66.5 51.0 76.4

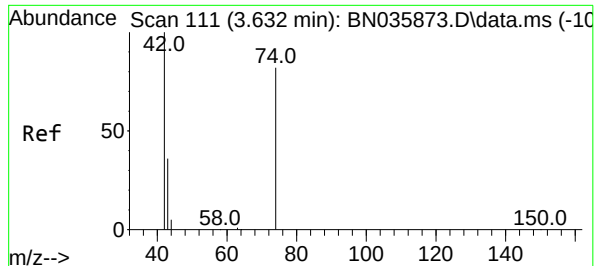


#2
1,4-Dioxane
Concen: 0.114 ng
RT: 3.322 min Scan# 68
Delta R.T. 0.000 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28



Tgt Ion: 88 Resp: 136
Ion Ratio Lower Upper
88 100
43 29.4 32.7 49.1#
58 77.2 63.0 94.4

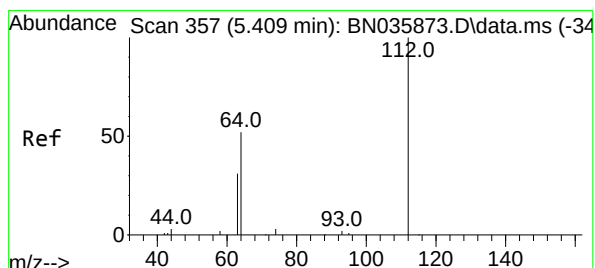
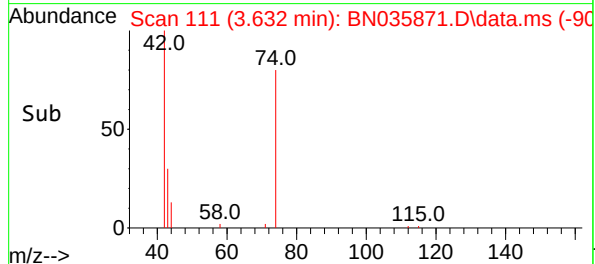
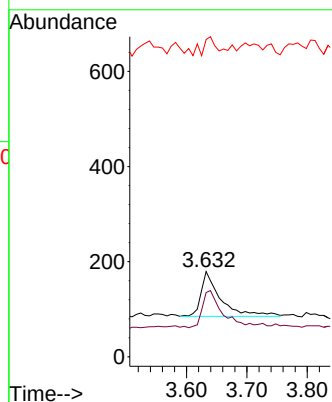
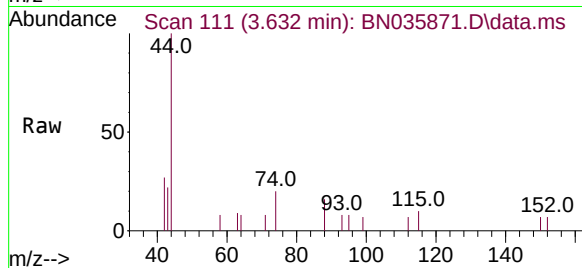




#3
n-Nitrosodimethylamine
Concen: 0.102 ng
RT: 3.632 min Scan# 111
Delta R.T. 0.000 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

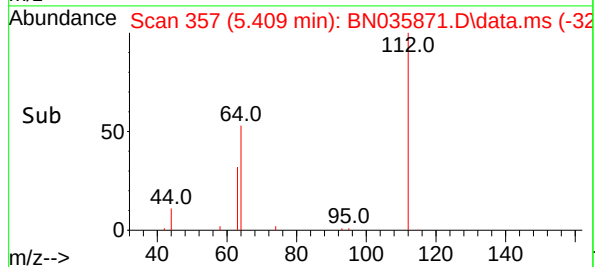
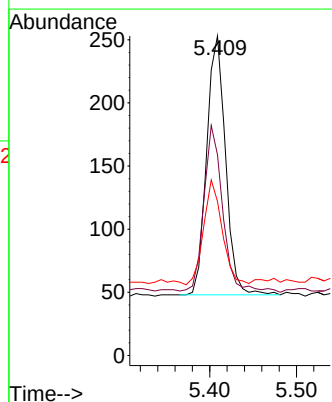
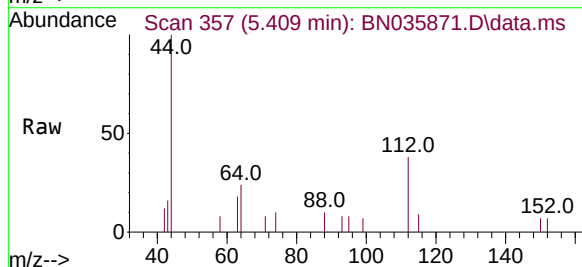
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

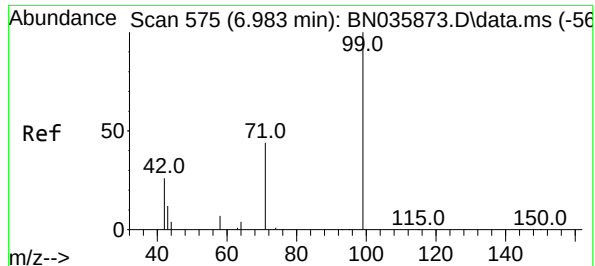
Tgt Ion: 42 Resp: 212
Ion Ratio Lower Upper
42 100
74 88.7 62.2 93.2
44 26.4 7.1 10.7#



#4
2-Fluorophenol
Concen: 0.105 ng
RT: 5.409 min Scan# 357
Delta R.T. 0.000 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

Tgt Ion: 112 Resp: 309
Ion Ratio Lower Upper
112 100
64 65.0 48.2 72.2
63 40.1 30.0 45.0

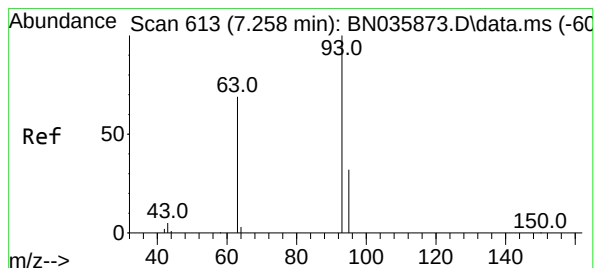
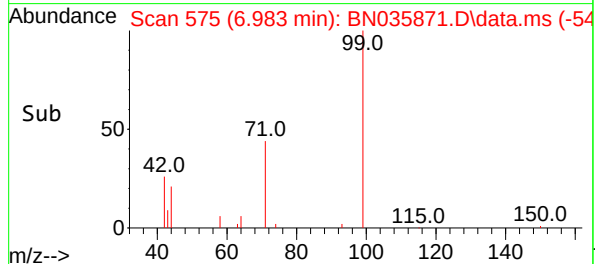
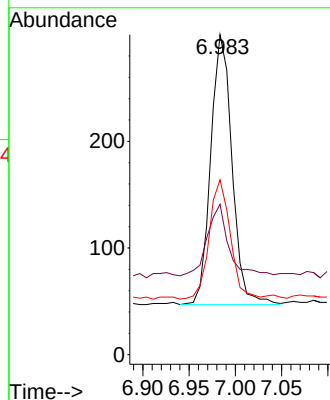
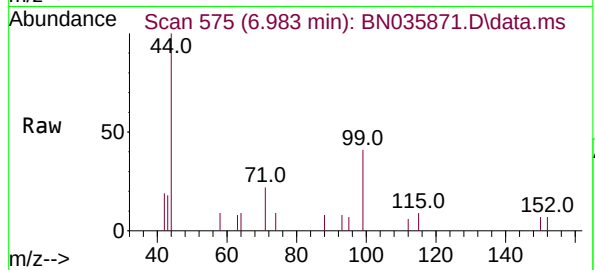




#5
Phenol-d6
Concen: 0.111 ng
RT: 6.983 min Scan# 575
Delta R.T. 0.000 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

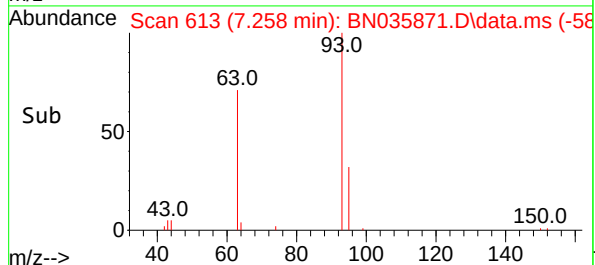
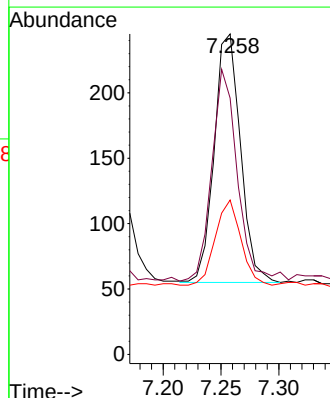
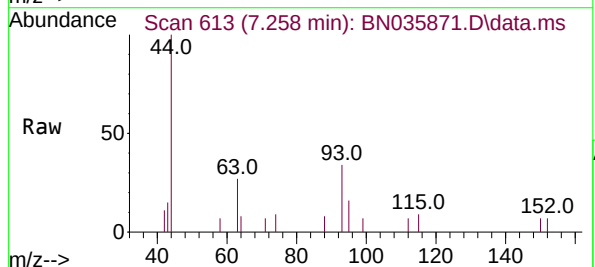
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

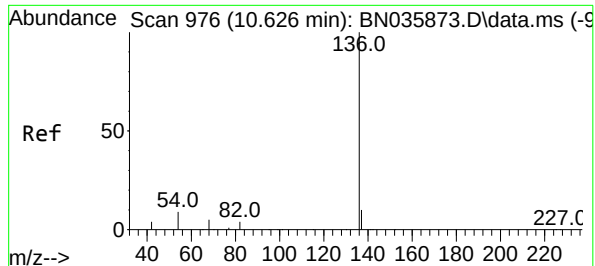
Tgt Ion: 99 Resp: 405
Ion Ratio Lower Upper
99 100
42 26.9 23.5 35.3
71 44.4 35.5 53.3



#6
bis(2-Chloroethyl)ether
Concen: 0.108 ng
RT: 7.258 min Scan# 613
Delta R.T. 0.000 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

Tgt Ion: 93 Resp: 300
Ion Ratio Lower Upper
93 100
63 82.3 62.0 93.0
95 33.3 25.5 38.3

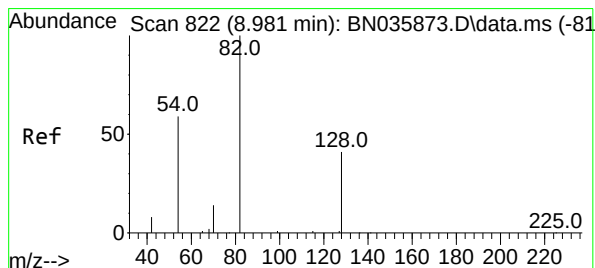
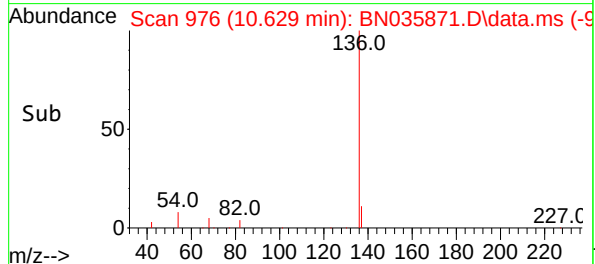
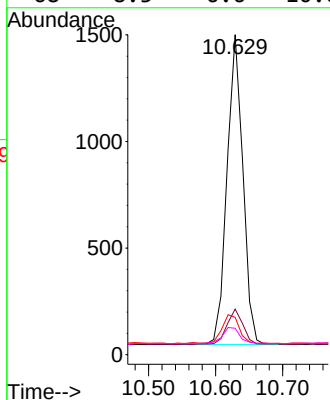
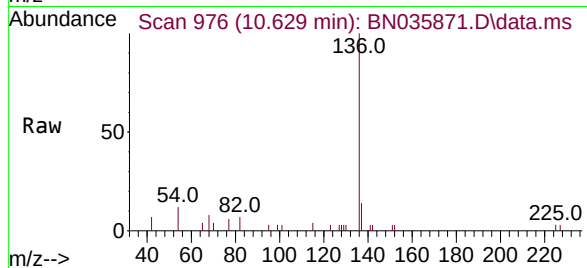




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.629 min Scan# 91
Delta R.T. 0.004 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

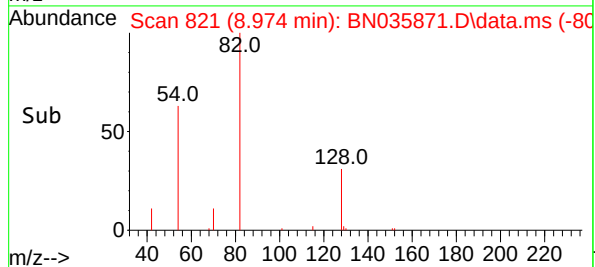
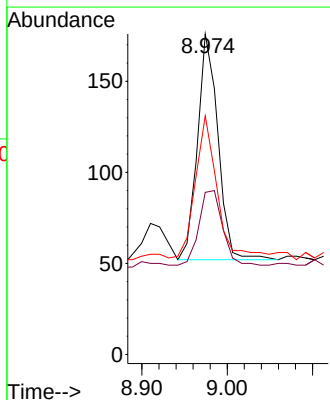
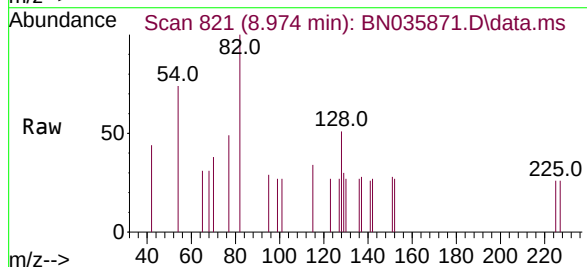
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

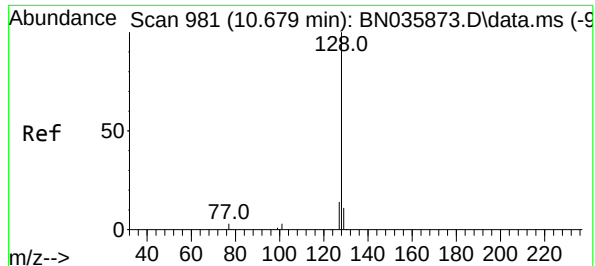
Tgt Ion:	136	Resp:	2391
Ion	Ratio	Lower	Upper
136	100		
137	14.3	10.6	15.8
54	11.7	9.8	14.6
68	8.3	6.6	10.0



#8
Nitrobenzene-d5
Concen: 0.109 ng
RT: 8.974 min Scan# 821
Delta R.T. -0.007 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

Tgt Ion:	82	Resp:	207
Ion	Ratio	Lower	Upper
82	100		
128	50.6	36.9	55.3
54	74.4	50.4	75.6

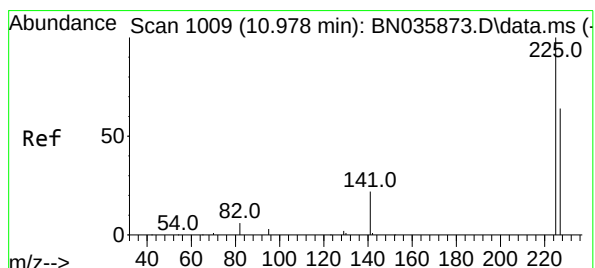
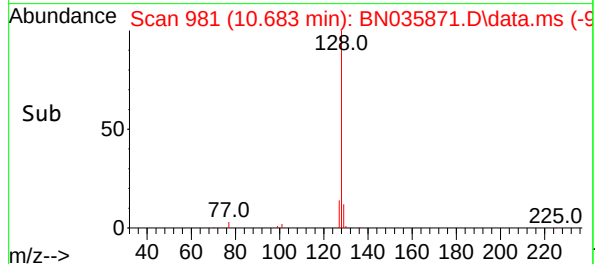
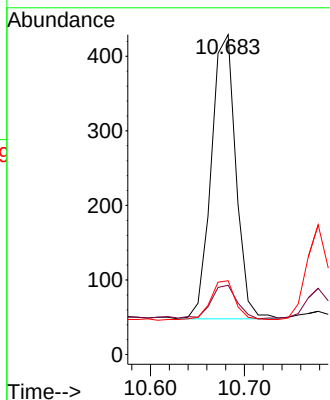
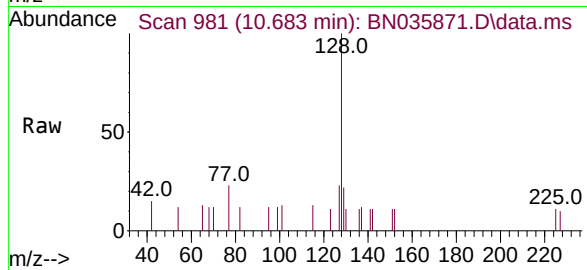




#9
Naphthalene
Concen: 0.104 ng
RT: 10.683 min Scan# 981
Delta R.T. 0.004 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

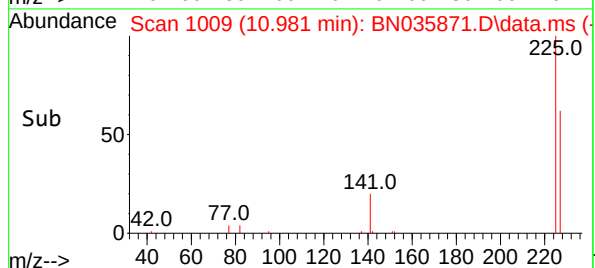
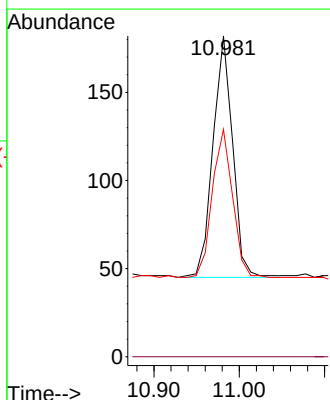
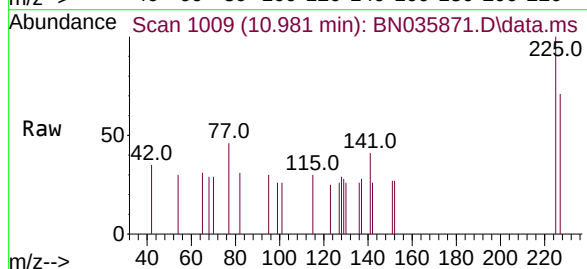
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

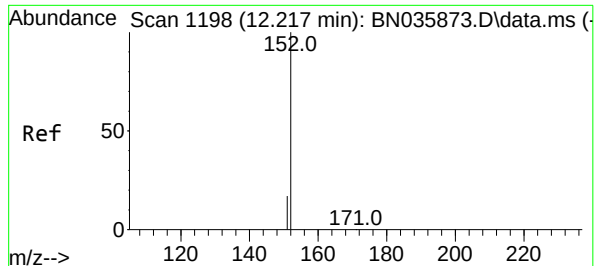
Tgt Ion:128 Resp: 695
Ion Ratio Lower Upper
128 100
129 21.7 10.6 16.0#
127 23.1 12.8 19.2#



#10
Hexachlorobutadiene
Concen: 0.101 ng
RT: 10.981 min Scan# 1009
Delta R.T. 0.004 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

Tgt Ion:225 Resp: 220
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.7 51.5 77.3

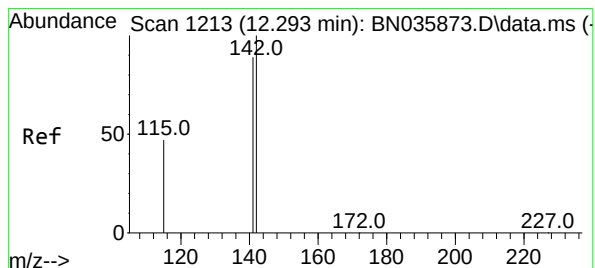
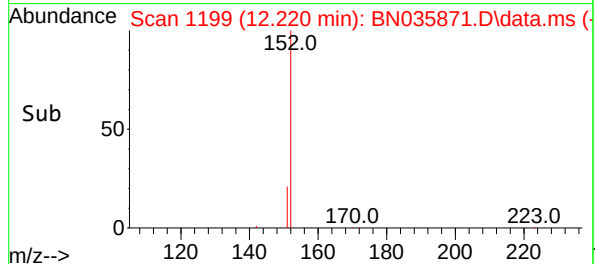
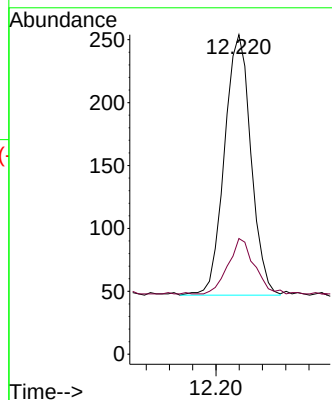
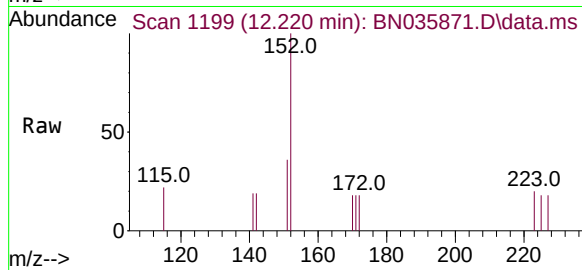




#11
2-Methylnaphthalene-d10
Concen: 0.102 ng
RT: 12.220 min Scan# 1198
Delta R.T. 0.003 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

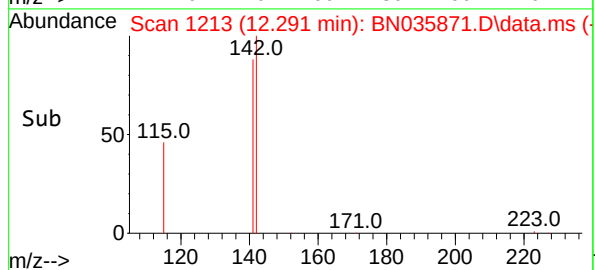
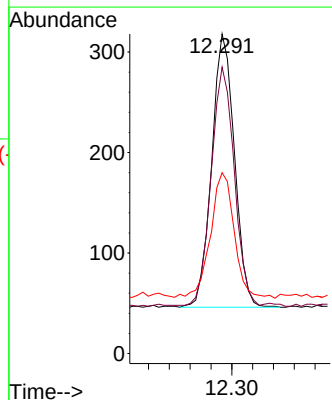
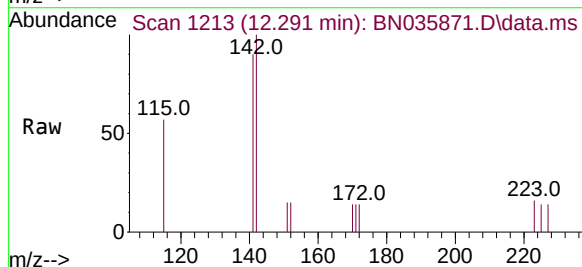
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

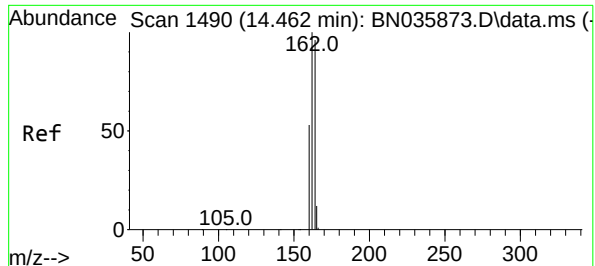
Tgt Ion:152 Resp: 327
Ion Ratio Lower Upper
152 100
151 21.1 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.099 ng
RT: 12.291 min Scan# 1213
Delta R.T. -0.002 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

Tgt Ion:142 Resp: 413
Ion Ratio Lower Upper
142 100
141 89.6 71.9 107.9
115 56.6 39.6 59.4

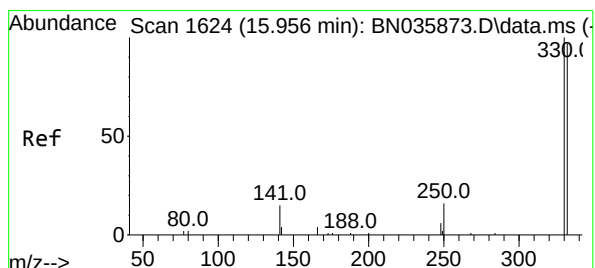
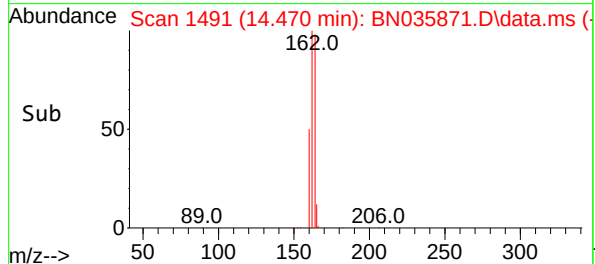
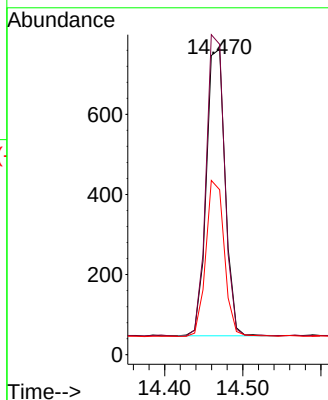
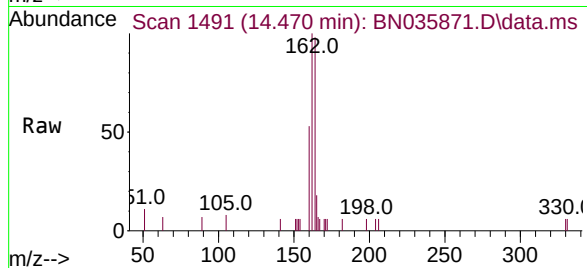




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.470 min Scan# 1490
Delta R.T. 0.009 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

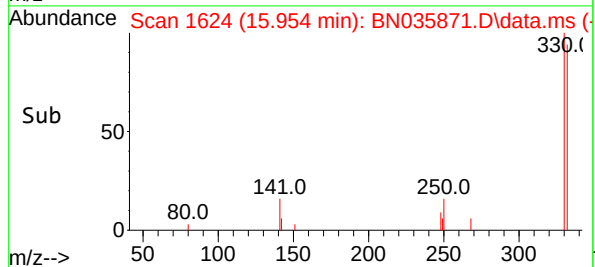
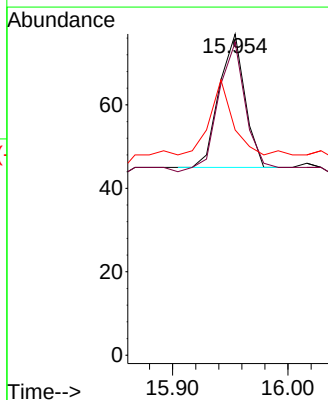
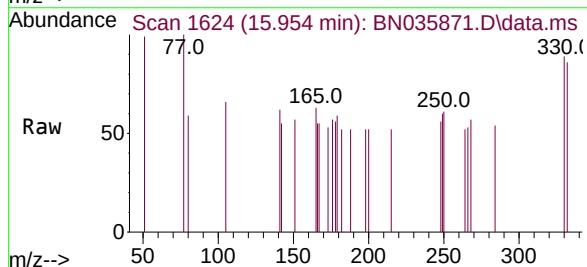
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

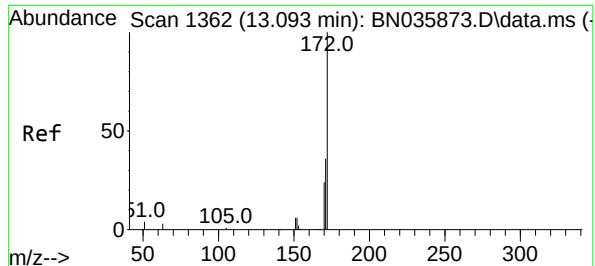
Tgt Ion:164 Resp: 1196
Ion Ratio Lower Upper
164 100
162 101.6 83.1 124.7
160 54.0 46.0 69.0



#14
2,4,6-Tribromophenol
Concen: 0.085 ng
RT: 15.954 min Scan# 1624
Delta R.T. -0.002 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

Tgt Ion:330 Resp: 49
Ion Ratio Lower Upper
330 100
332 106.1 77.2 115.8
141 71.4 31.6 47.4#





#15

2-Fluorobiphenyl

Concen: 0.101 ng

RT: 13.091 min Scan# 1362

Delta R.T. -0.002 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

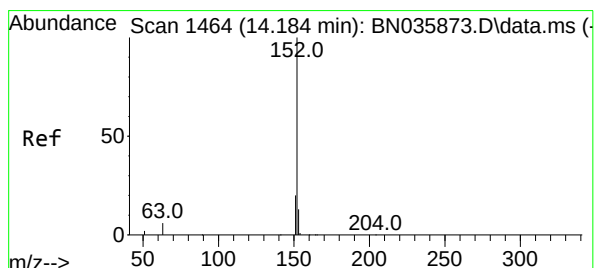
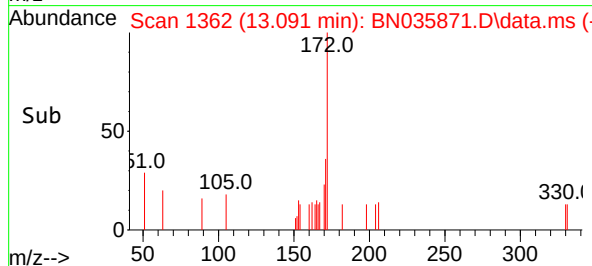
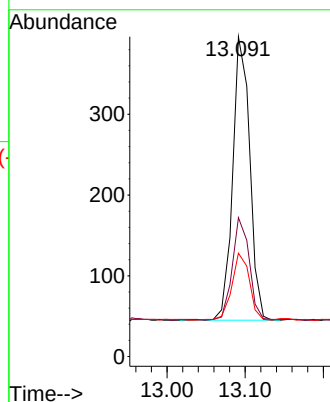
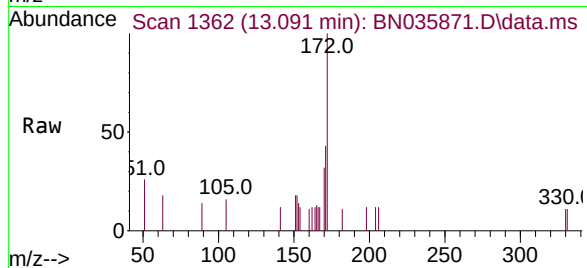
Tgt Ion:172 Resp: 531

Ion Ratio Lower Upper

172 100

171 43.4 30.5 45.7

170 32.3 20.8 31.2#



#16

Acenaphthylene

Concen: 0.100 ng

RT: 14.182 min Scan# 1464

Delta R.T. -0.002 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

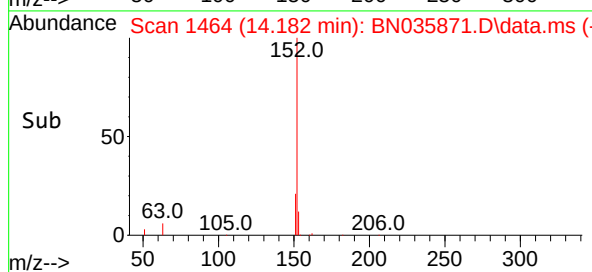
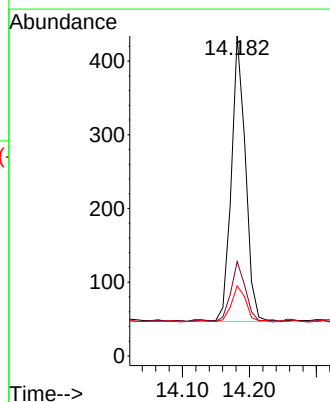
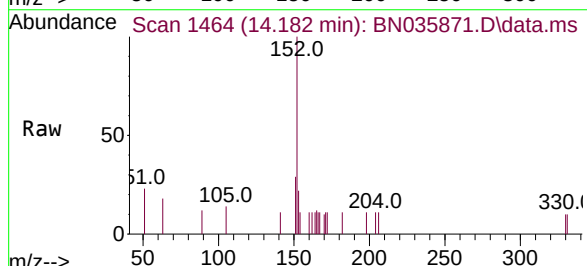
Tgt Ion:152 Resp: 565

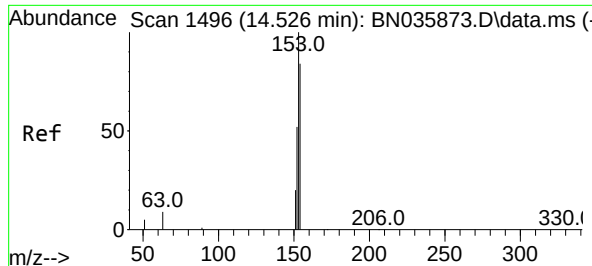
Ion Ratio Lower Upper

152 100

151 21.8 16.3 24.5

153 13.3 10.6 15.8

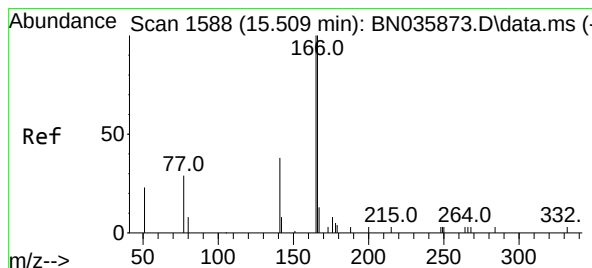
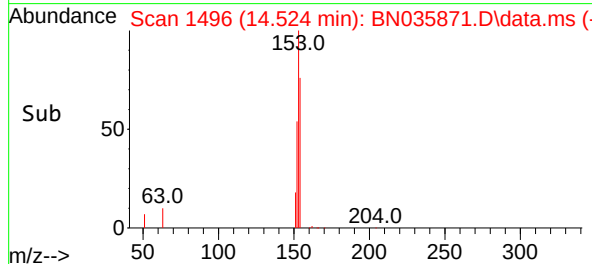
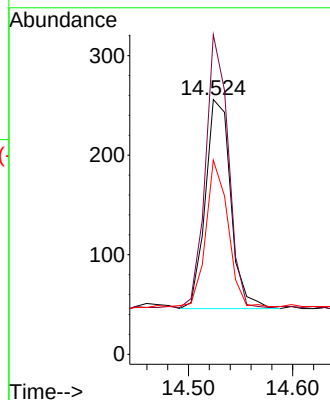
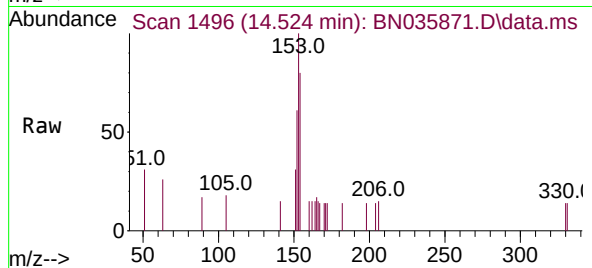




#17
Acenaphthene
Concen: 0.096 ng
RT: 14.524 min Scan# 1496
Delta R.T. -0.002 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

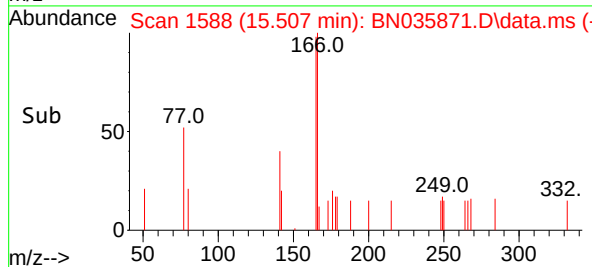
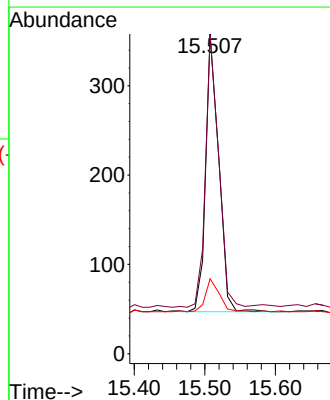
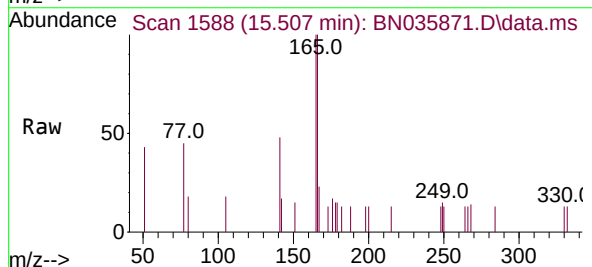
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

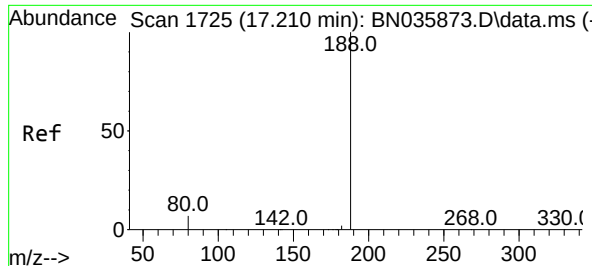
Tgt Ion	154	153	152
Resp:	355		
Ion Ratio	100	116.6	62.8
Lower		90.5	48.6
Upper		135.7	73.0



#18
Fluorene
Concen: 0.099 ng
RT: 15.507 min Scan# 1588
Delta R.T. -0.002 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

Tgt Ion	166	165	167
Resp:	401		
Ion Ratio	100	96.5	12.5
Lower		80.6	11.4
Upper		120.8	17.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.208 min Scan# 1725

Delta R.T. -0.002 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

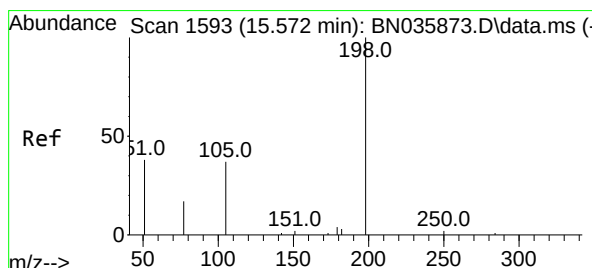
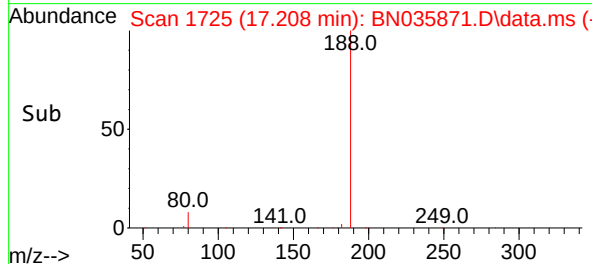
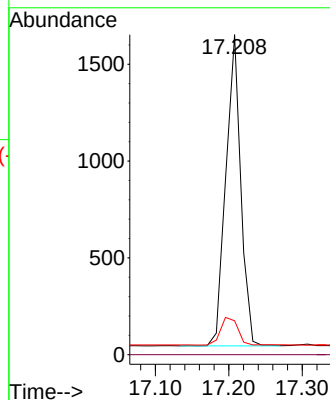
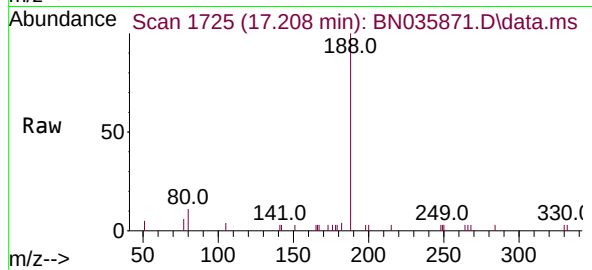
Tgt Ion:188 Resp: 2268

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.6 7.3 10.9



#20

4,6-Dinitro-2-methylphenol

Concen: 0.084 ng

RT: 15.569 min Scan# 1593

Delta R.T. -0.002 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

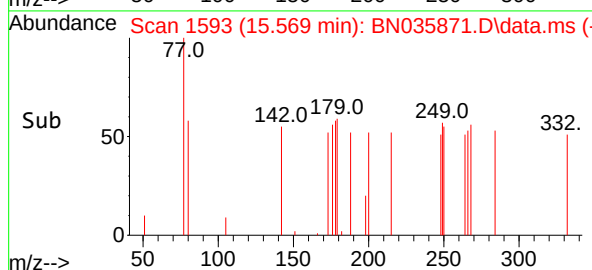
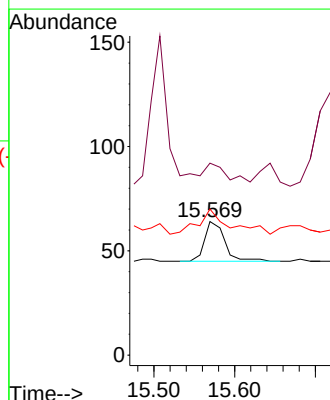
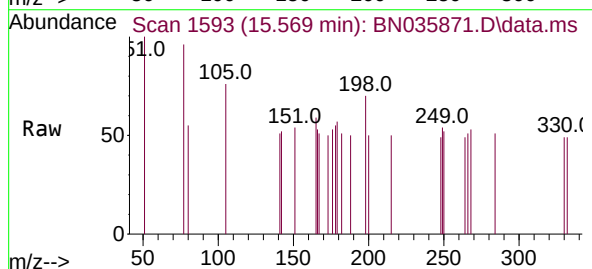
Tgt Ion:198 Resp: 33

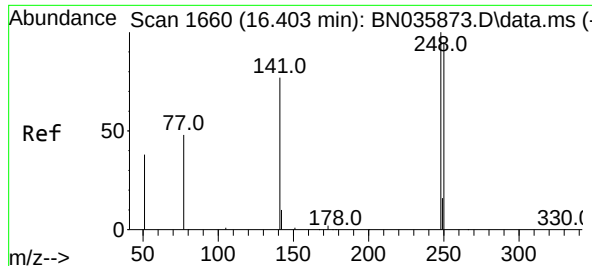
Ion Ratio Lower Upper

198 100

51 143.8 64.3 96.5#

105 109.4 50.0 75.0#

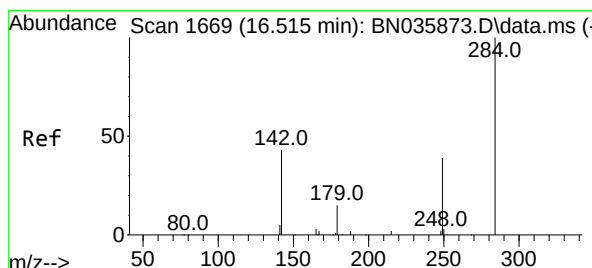
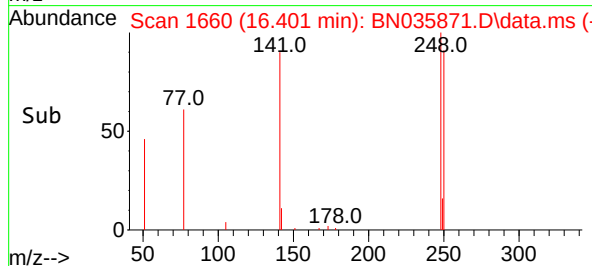
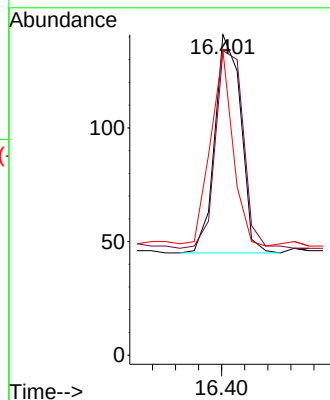
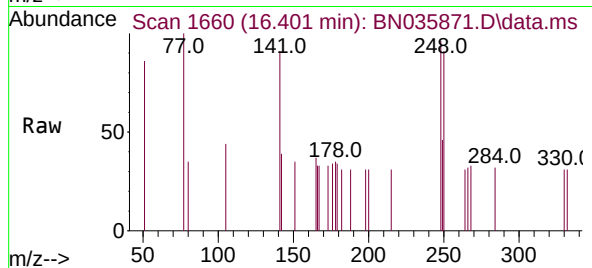




#21
4-Bromophenyl-phenylether
Concen: 0.096 ng
RT: 16.401 min Scan# 1670
Delta R.T. -0.002 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

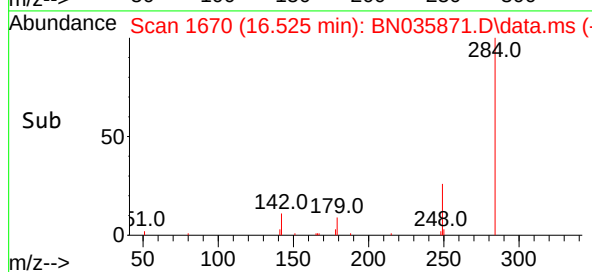
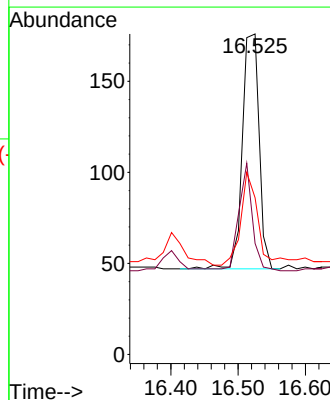
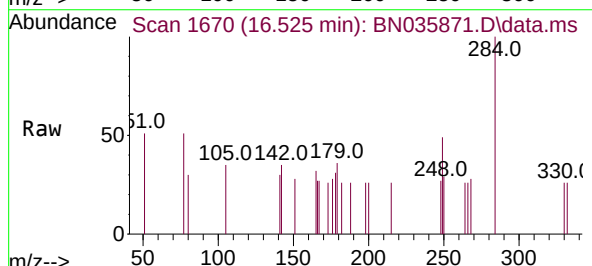
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

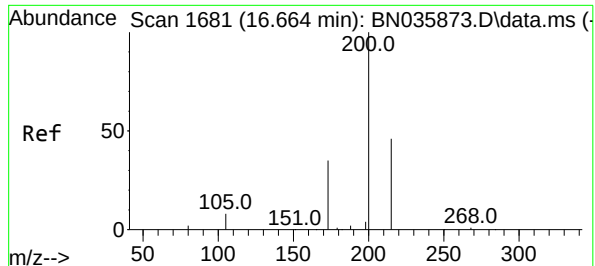
Tgt Ion:	248	Resp:	150
Ion	Ratio	Lower	Upper
248	100		
250	95.0	76.8	115.2
141	95.0	63.6	95.4



#22
Hexachlorobenzene
Concen: 0.105 ng
RT: 16.525 min Scan# 1670
Delta R.T. 0.010 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

Tgt Ion:	284	Resp:	223
Ion	Ratio	Lower	Upper
284	100		
142	38.1	31.4	47.0
249	45.7	27.8	41.8

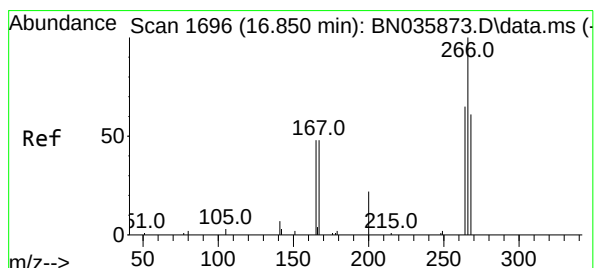
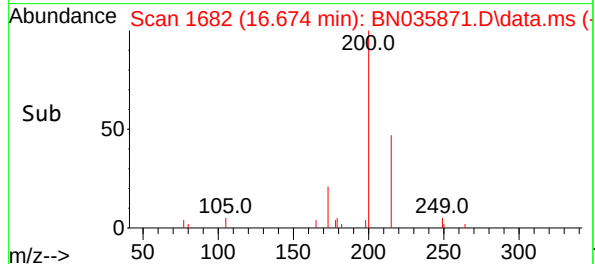
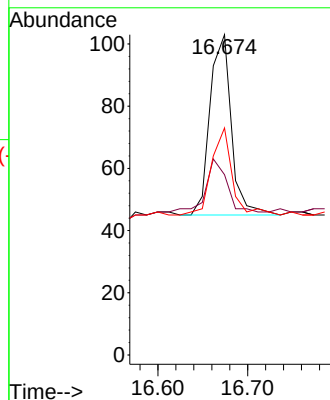
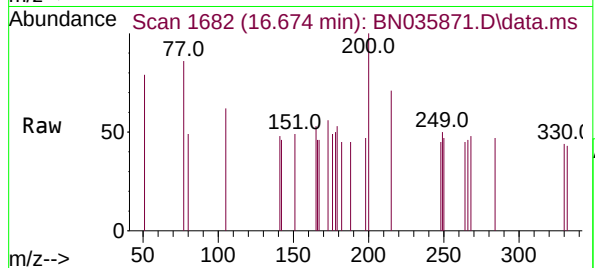




#23
Atrazine
Concen: 0.092 ng
RT: 16.674 min Scan# 1682
Delta R.T. 0.010 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

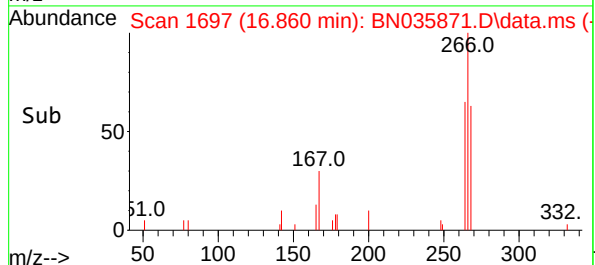
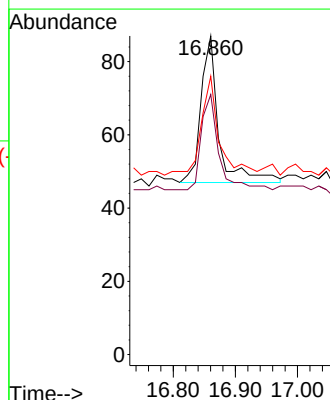
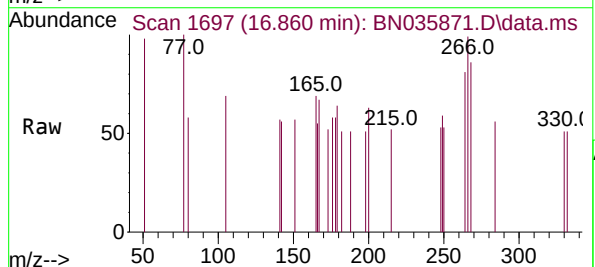
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

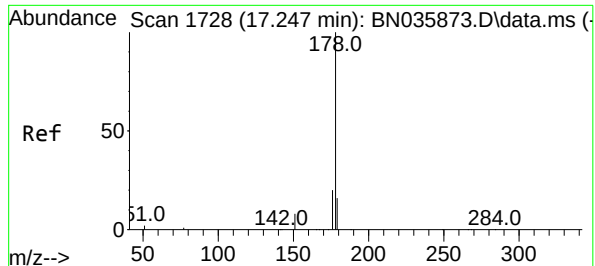
Tgt Ion:200 Resp: 96
Ion Ratio Lower Upper
200 100
173 56.3 35.4 53.0#
215 70.9 42.4 63.6#



#24
Pentachlorophenol
Concen: 0.107 ng
RT: 16.860 min Scan# 1697
Delta R.T. 0.010 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

Tgt Ion:266 Resp: 80
Ion Ratio Lower Upper
266 100
264 63.7 49.9 74.9
268 67.5 50.2 75.2

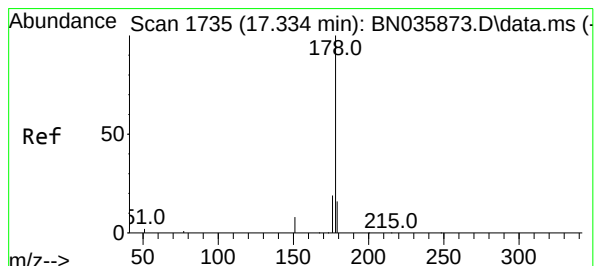
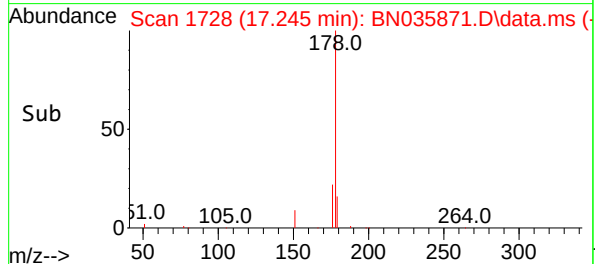
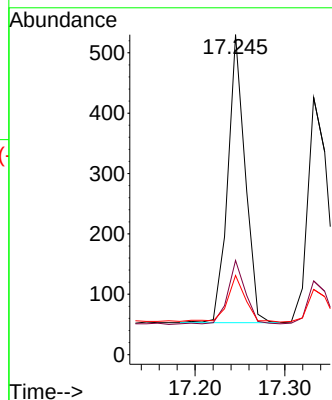
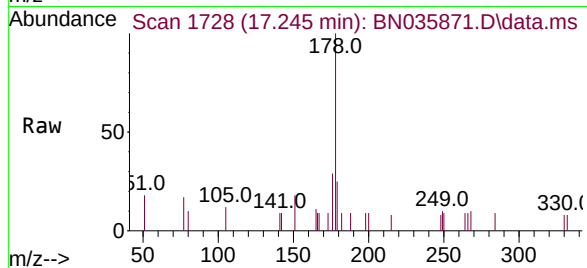




#25
Phenanthrene
Concen: 0.097 ng
RT: 17.245 min Scan# 1728
Delta R.T. -0.002 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

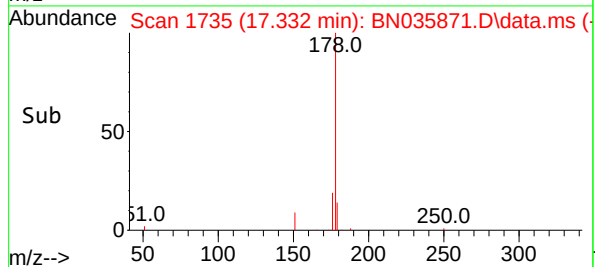
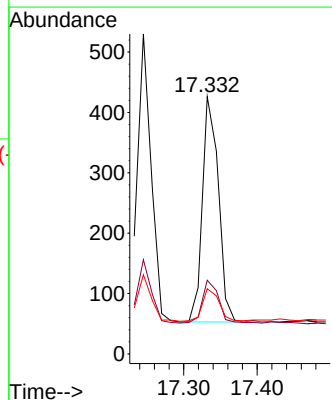
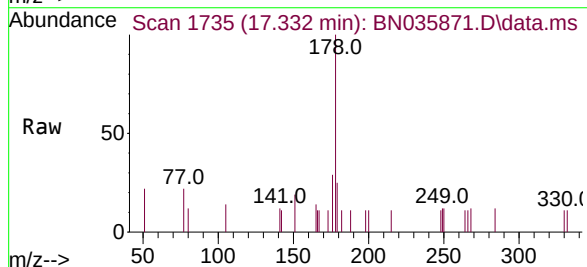
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

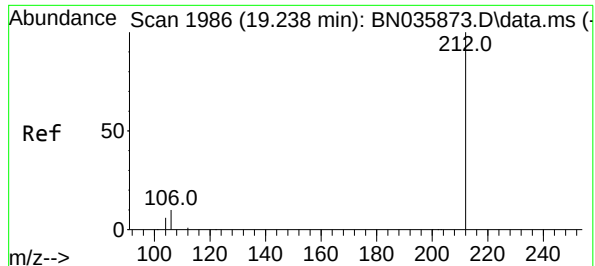
Tgt Ion:178 Resp: 641
Ion Ratio Lower Upper
178 100
176 23.2 15.9 23.9
179 17.8 12.9 19.3



#26
Anthracene
Concen: 0.094 ng
RT: 17.332 min Scan# 1735
Delta R.T. -0.002 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

Tgt Ion:178 Resp: 565
Ion Ratio Lower Upper
178 100
176 20.4 15.0 22.6
179 15.0 13.0 19.6





#27

Fluoranthene-d10

Concen: 0.099 ng

RT: 19.236 min Scan# 1986

Delta R.T. -0.002 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

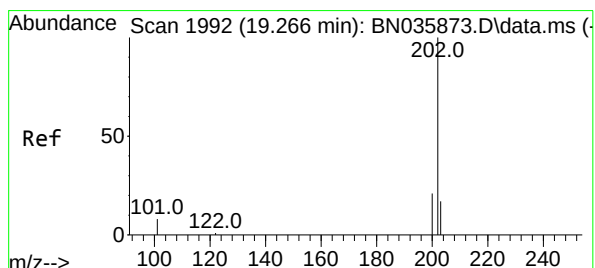
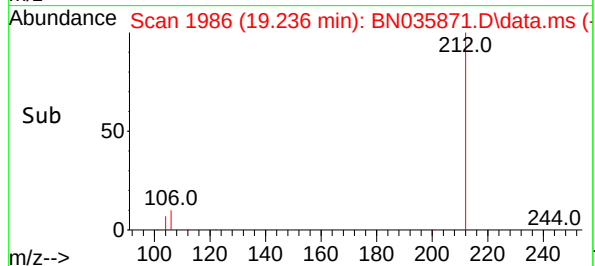
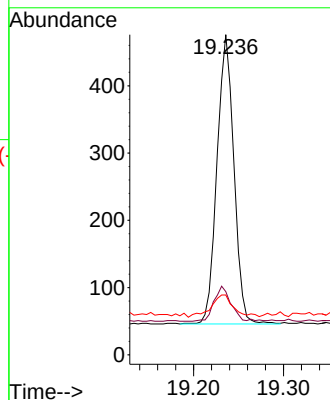
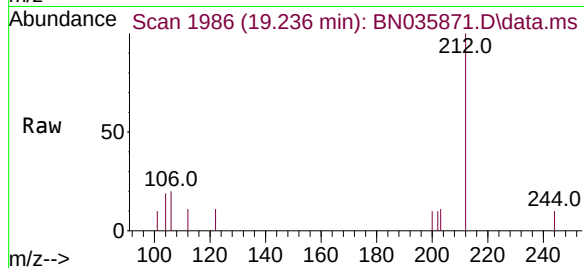
Tgt Ion:212 Resp: 560

Ion Ratio Lower Upper

212 100

106 11.8 9.0 13.6

104 10.4 5.4 8.2#



#28

Fluoranthene

Concen: 0.093 ng

RT: 19.264 min Scan# 1992

Delta R.T. -0.002 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

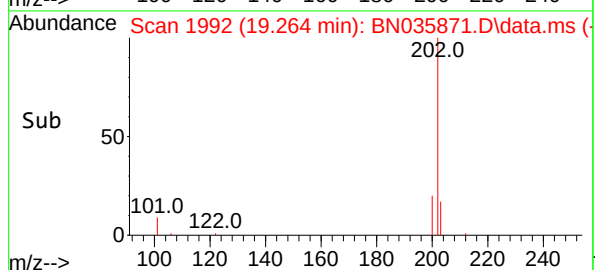
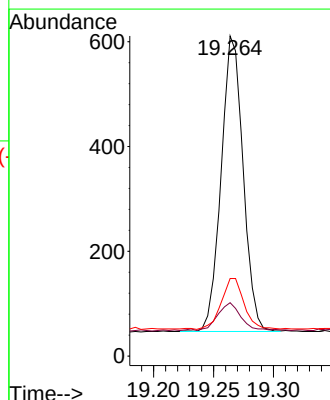
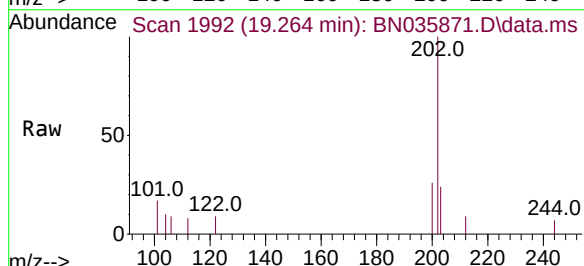
Tgt Ion:202 Resp: 719

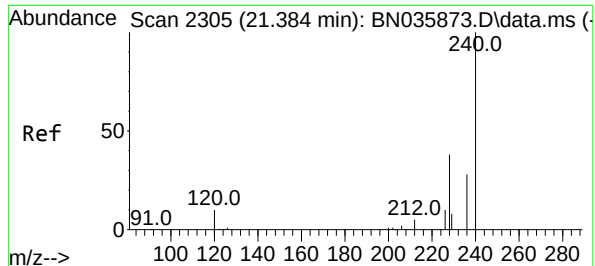
Ion Ratio Lower Upper

202 100

101 10.0 7.2 10.8

203 18.1 13.9 20.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.386 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

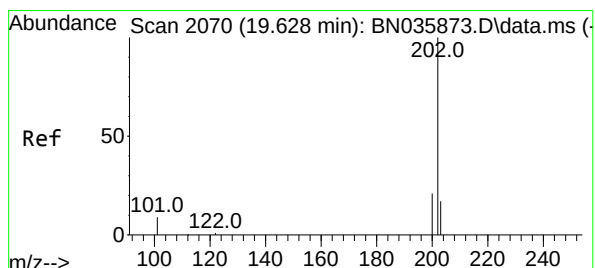
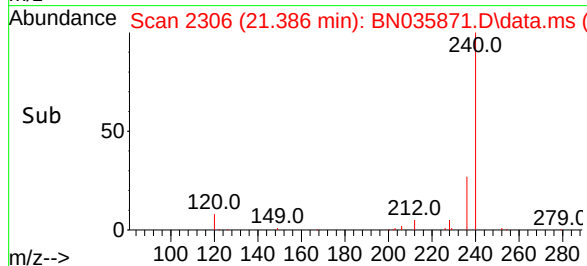
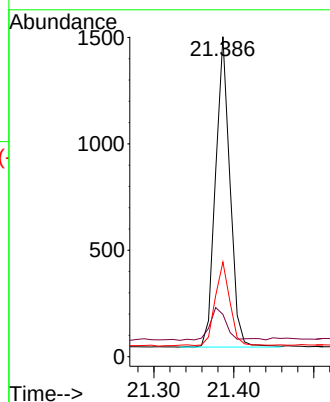
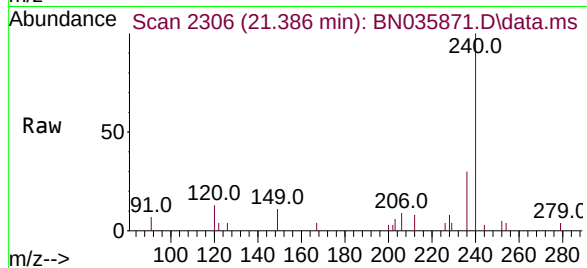
Tgt Ion:240 Resp: 1828

Ion Ratio Lower Upper

240 100

120 13.2 11.1 16.7

236 29.6 24.6 36.8



#30

Pyrene

Concen: 0.099 ng

RT: 19.626 min Scan# 2070

Delta R.T. -0.002 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

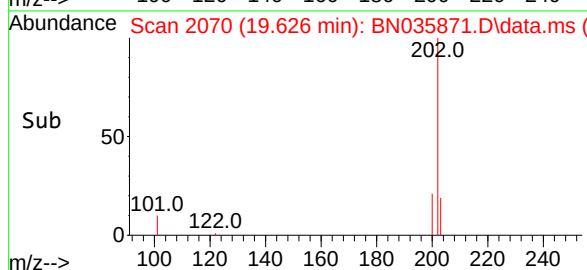
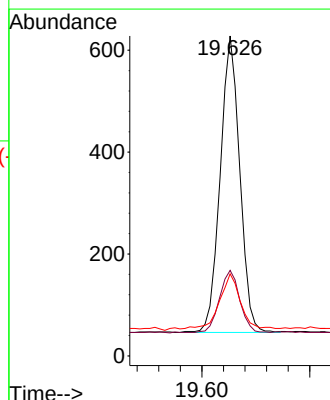
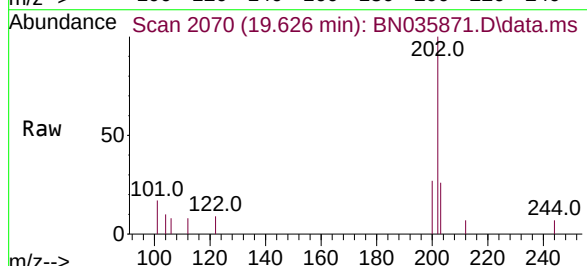
Tgt Ion:202 Resp: 734

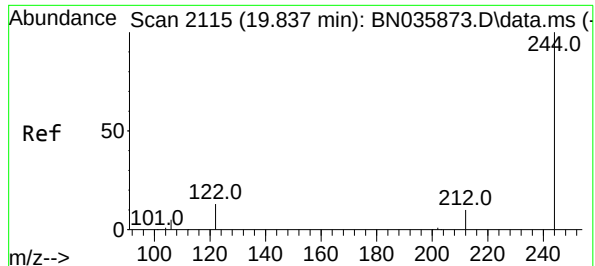
Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.6

203 20.2 14.6 22.0

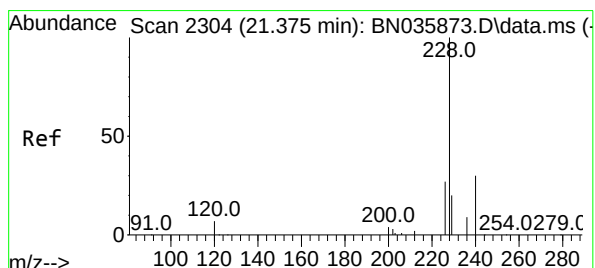
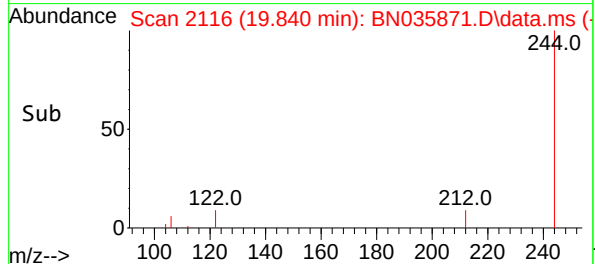
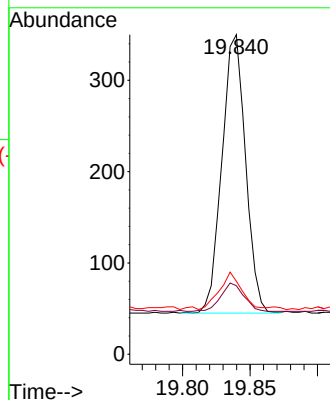
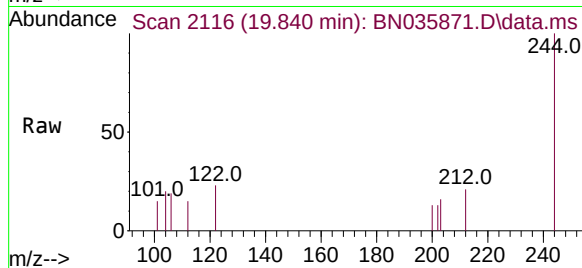




#31
Terphenyl-d14
Concen: 0.102 ng
RT: 19.840 min Scan# 2115
Delta R.T. 0.003 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

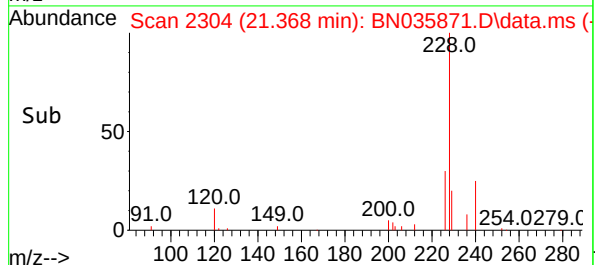
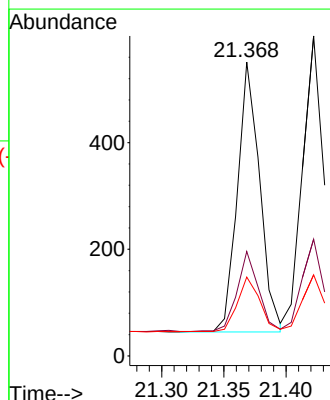
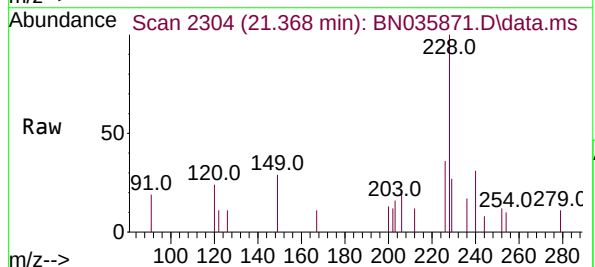
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

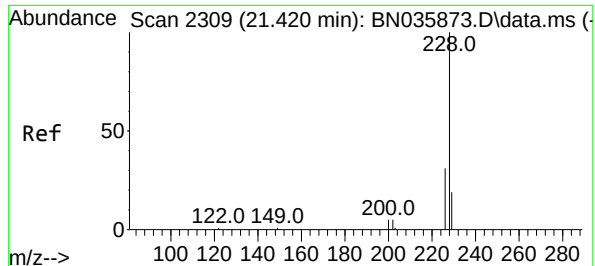
Tgt Ion:244 Resp: 372
Ion Ratio Lower Upper
244 100
212 21.4 10.1 15.1#
122 22.9 12.2 18.4#



#32
Benzo(a)anthracene
Concen: 0.098 ng
RT: 21.368 min Scan# 2304
Delta R.T. -0.006 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

Tgt Ion:228 Resp: 630
Ion Ratio Lower Upper
228 100
226 35.6 22.7 34.1#
229 26.9 17.1 25.7#





#33

Chrysene

Concen: 0.101 ng

RT: 21.422 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

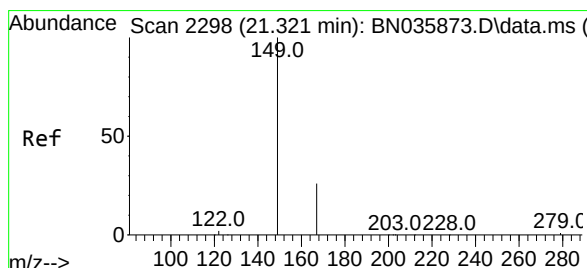
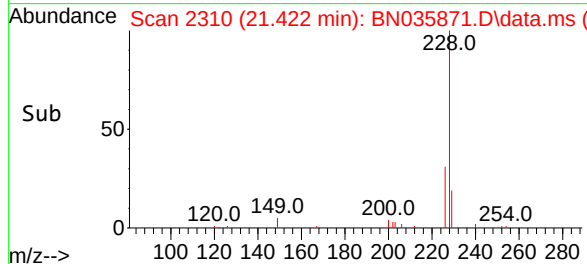
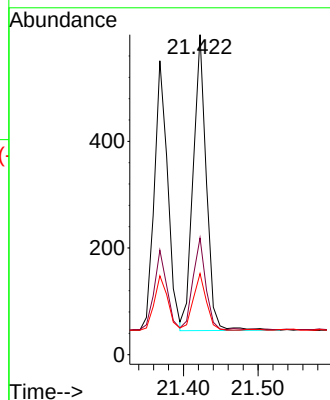
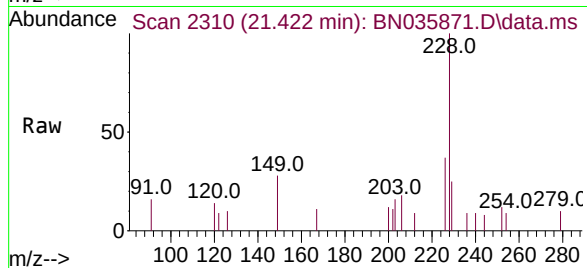
Tgt Ion:228 Resp: 678

Ion Ratio Lower Upper

228 100

226 36.5 25.2 37.8

229 25.3 16.0 24.0#



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.121 ng

RT: 21.324 min Scan# 2299

Delta R.T. 0.003 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

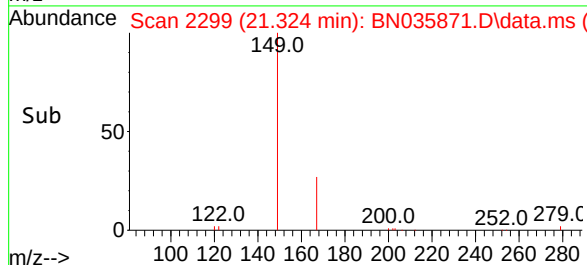
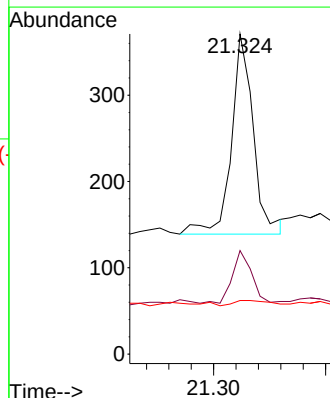
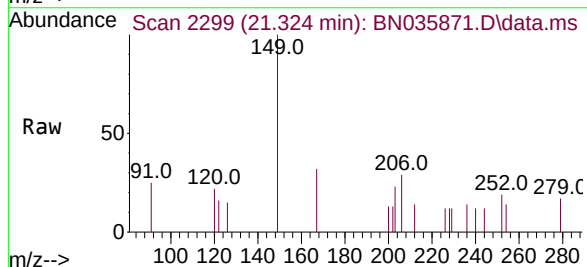
Tgt Ion:149 Resp: 316

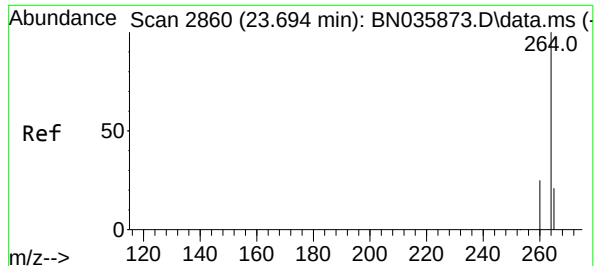
Ion Ratio Lower Upper

149 100

167 23.4 21.4 32.0

279 4.1 3.0 4.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.694 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035871.D

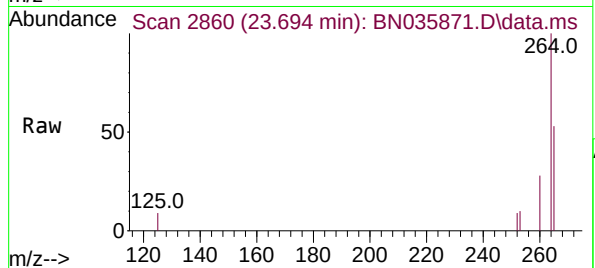
Acq: 02 Jan 2025 11:28

Instrument :

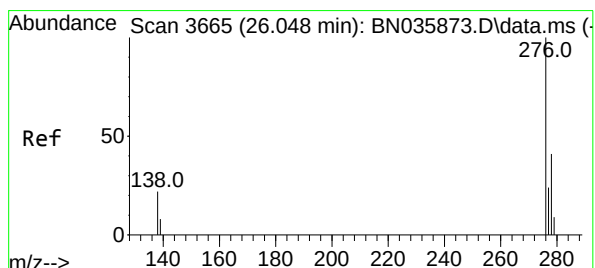
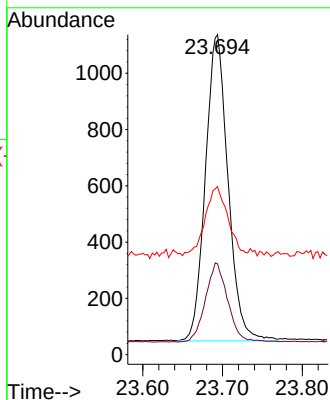
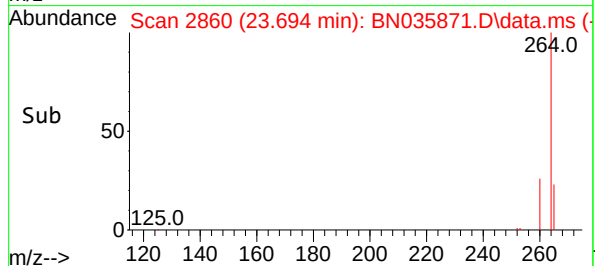
BNA_N

ClientSampleId :

SSTDIC0.1



Tgt Ion:	264	Resp:	2148
Ion	Ratio	Lower	Upper
264	100		
260	28.4	21.7	32.5
265	52.5	33.9	50.9#



#36

Indeno(1,2,3-cd)pyrene

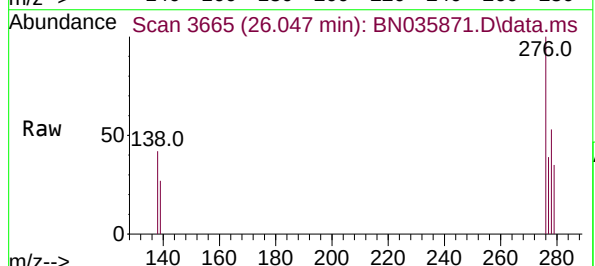
Concen: 0.091 ng

RT: 26.047 min Scan# 3665

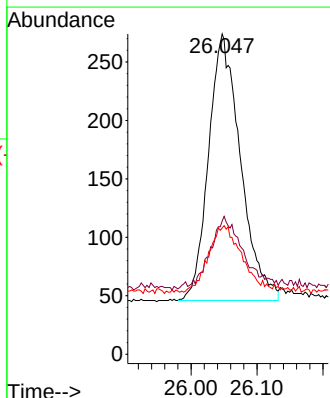
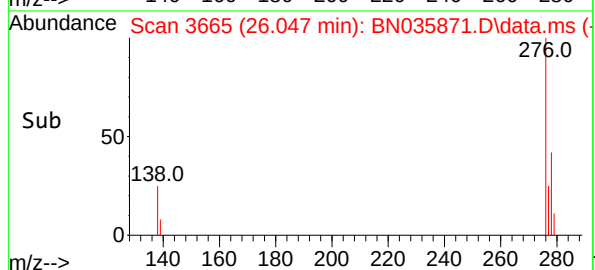
Delta R.T. -0.000 min

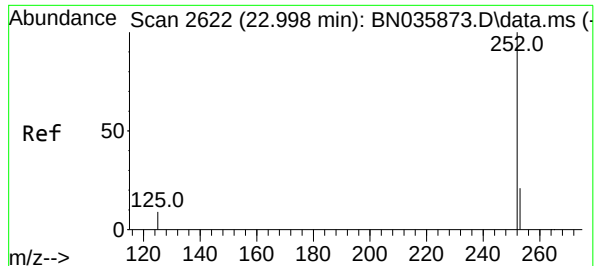
Lab File: BN035871.D

Acq: 02 Jan 2025 11:28



Tgt Ion:	276	Resp:	767
Ion	Ratio	Lower	Upper
276	100		
138	26.9	18.9	28.3
277	25.4	19.5	29.3





#37

Benzo(b)fluoranthene

Concen: 0.097 ng

RT: 23.001 min Scan# 2623

Delta R.T. 0.003 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

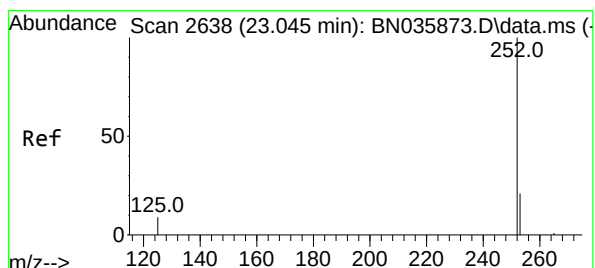
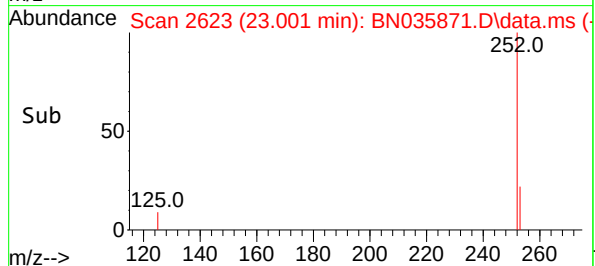
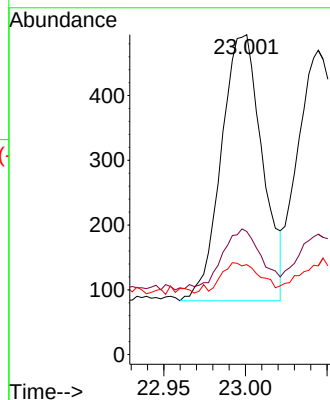
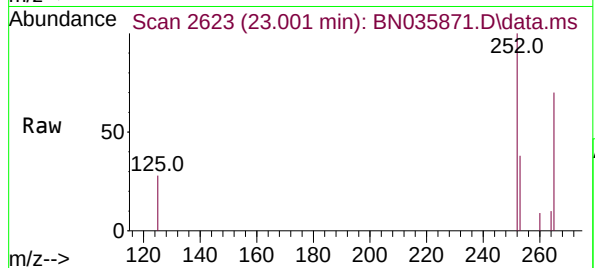
Tgt Ion:252 Resp: 718

Ion Ratio Lower Upper

252 100

253 38.5 20.1 30.1#

125 28.1 9.9 14.9#



#38

Benzo(k)fluoranthene

Concen: 0.094 ng

RT: 23.045 min Scan# 2638

Delta R.T. -0.000 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

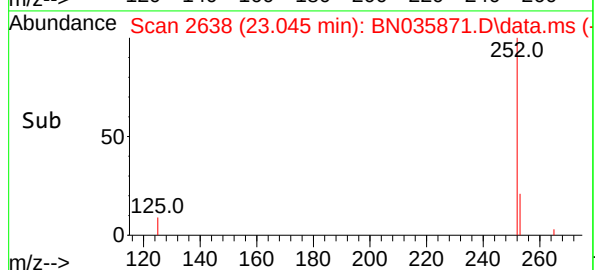
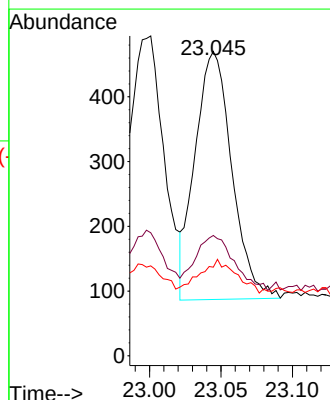
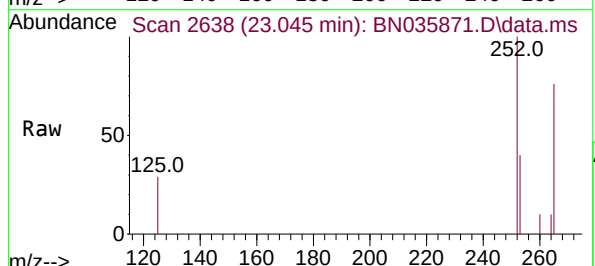
Tgt Ion:252 Resp: 687

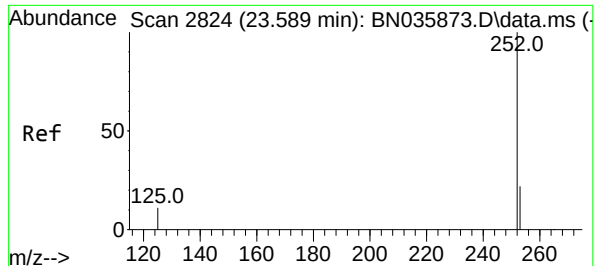
Ion Ratio Lower Upper

252 100

253 39.6 20.5 30.7#

125 29.1 10.6 16.0#





#39

Benzo(a)pyrene

Concen: 0.092 ng

RT: 23.591 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

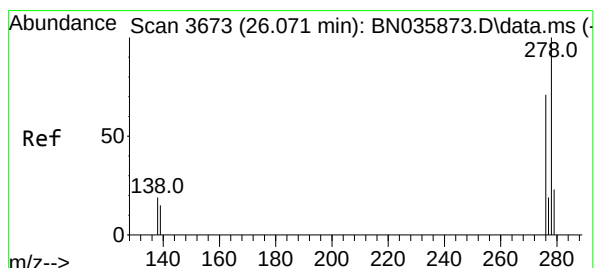
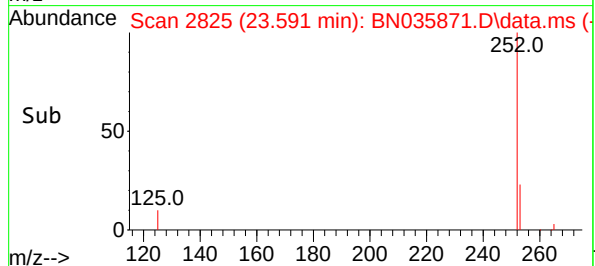
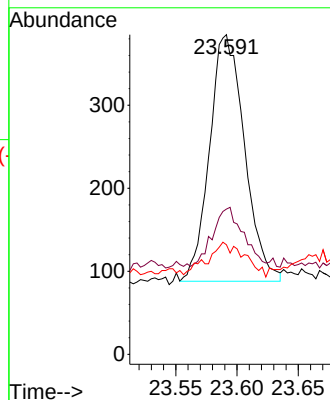
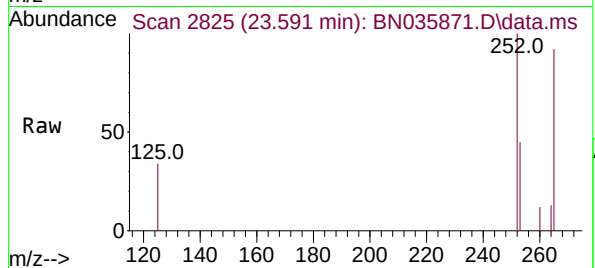
Tgt Ion:252 Resp: 590

Ion Ratio Lower Upper

252 100

253 45.5 21.5 32.3#

125 34.3 12.6 19.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.091 ng

RT: 26.071 min Scan# 3673

Delta R.T. -0.000 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

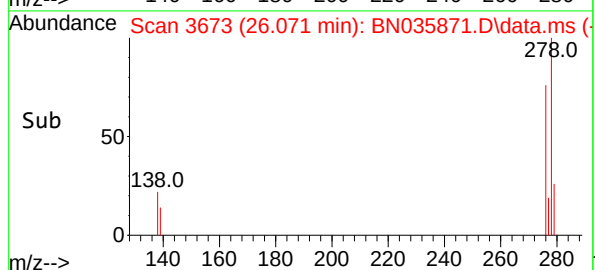
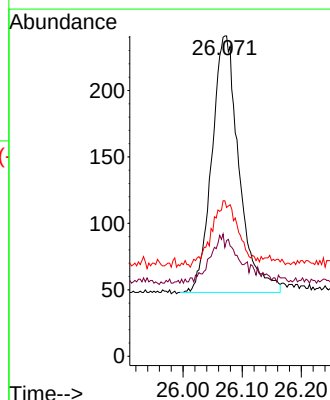
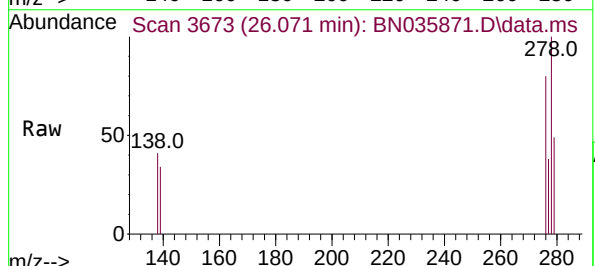
Tgt Ion:278 Resp: 615

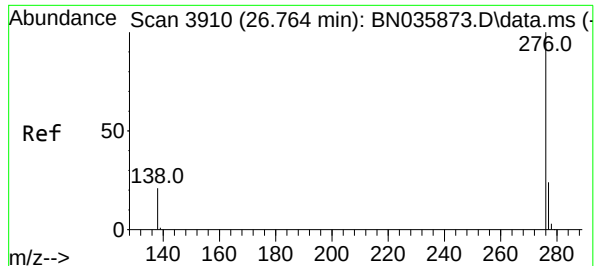
Ion Ratio Lower Upper

278 100

139 34.0 15.9 23.9#

279 48.5 23.0 34.4#





#41

Benzo(g,h,i)perylene

Concen: 0.095 ng

RT: 26.764 min Scan# 3910

Delta R.T. -0.000 min

Lab File: BN035871.D

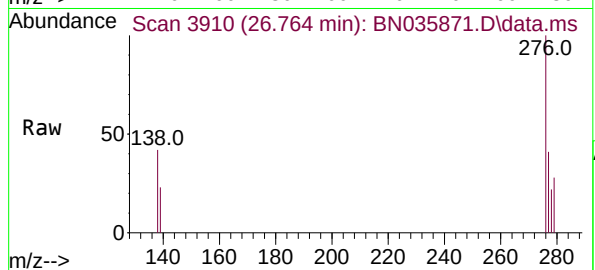
Acq: 02 Jan 2025 11:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



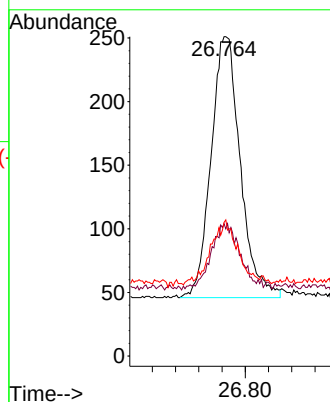
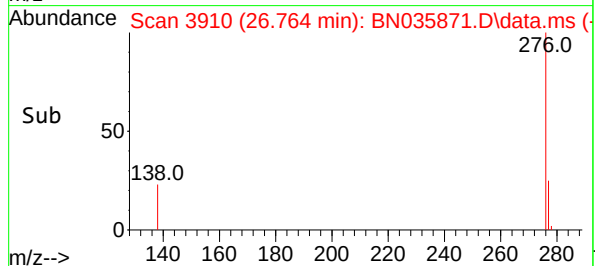
Tgt Ion:276 Resp: 717

Ion Ratio Lower Upper

276 100

277 41.4 22.8 34.2#

138 41.8 20.1 30.1#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
 Data File : BN035872.D
 Acq On : 02 Jan 2025 12:04
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Jan 02 15:49:19 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

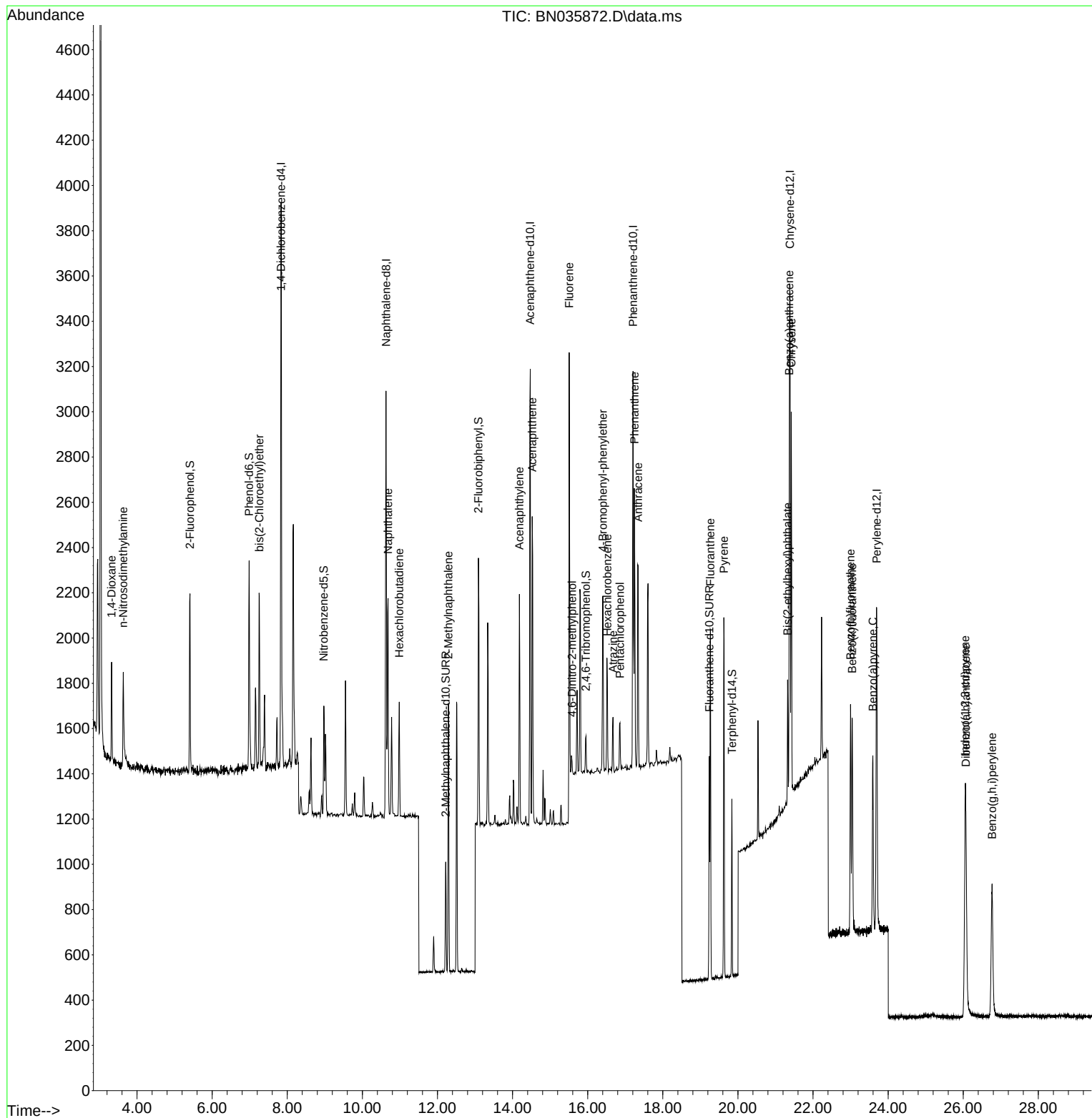
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.835	152	1152	0.400	ng	0.00
7) Naphthalene-d8	10.629	136	2364	0.400	ng	0.00
13) Acenaphthene-d10	14.470	164	1186	0.400	ng	0.00
19) Phenanthrene-d10	17.208	188	2216	0.400	ng	0.00
29) Chrysene-d12	21.386	240	1774	0.400	ng	0.00
35) Perylene-d12	23.694	264	1987	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.409	112	581	0.206	ng	0.00
5) Phenol-d6	6.983	99	723	0.206	ng	0.00
8) Nitrobenzene-d5	8.974	82	363	0.194	ng	0.00
11) 2-Methylnaphthalene-d10	12.220	152	634	0.200	ng	0.00
14) 2,4,6-Tribromophenol	15.954	330	98	0.172	ng	0.00
15) 2-Fluorobiphenyl	13.091	172	993	0.191	ng	0.00
27) Fluoranthene-d10	19.236	212	1055	0.192	ng	0.00
31) Terphenyl-d14	19.840	244	721	0.204	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.322	88	243	0.212	ng	Qvalue 95
3) n-Nitrosodimethylamine	3.632	42	388	0.194	ng	# 86
6) bis(2-Chloroethyl)ether	7.258	93	545	0.204	ng	94
9) Naphthalene	10.682	128	1293	0.195	ng	# 93
10) Hexachlorobutadiene	10.981	225	418	0.194	ng	# 98
12) 2-Methylnaphthalene	12.291	142	773	0.188	ng	97
16) Acenaphthylene	14.182	152	1047	0.187	ng	98
17) Acenaphthene	14.524	154	689	0.188	ng	99
18) Fluorene	15.507	166	753	0.187	ng	98
20) 4,6-Dinitro-2-methylph...	15.582	198	73	0.190	ng	# 79
21) 4-Bromophenyl-phenylether	16.401	248	298	0.196	ng	# 89
22) Hexachlorobenzene	16.525	284	409	0.197	ng	99
23) Atrazine	16.674	200	212	0.208	ng	94
24) Pentachlorophenol	16.860	266	112	0.153	ng	90
25) Phenanthrene	17.245	178	1254	0.194	ng	99
26) Anthracene	17.344	178	1106	0.188	ng	99
28) Fluoranthene	19.268	202	1388	0.184	ng	99
30) Pyrene	19.626	202	1437	0.200	ng	99
32) Benzo(a)anthracene	21.368	228	1226	0.196	ng	97
33) Chrysene	21.422	228	1293	0.198	ng	95
34) Bis(2-ethylhexyl)phtha...	21.323	149	517	0.203	ng	97
36) Indeno(1,2,3-cd)pyrene	26.050	276	1452	0.185	ng	97
37) Benzo(b)fluoranthene	22.998	252	1296	0.190	ng	# 87
38) Benzo(k)fluoranthene	23.042	252	1246	0.184	ng	# 87
39) Benzo(a)pyrene	23.591	252	1173	0.199	ng	# 85
40) Dibenzo(a,h)anthracene	26.070	278	1145	0.184	ng	# 83
41) Benzo(g,h,i)perylene	26.766	276	1307	0.188	ng	# 87

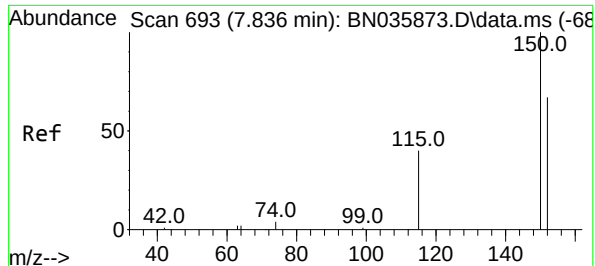
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
Data File : BN035872.D
Acq On : 02 Jan 2025 12:04
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Jan 02 15:49:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

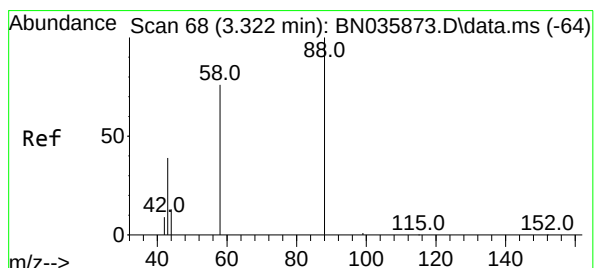
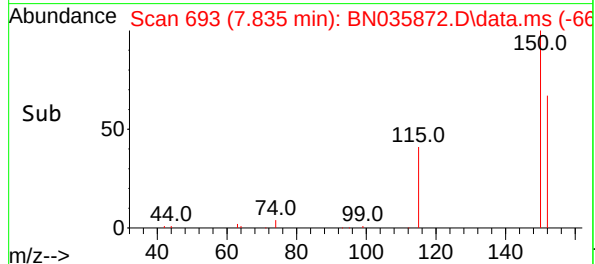
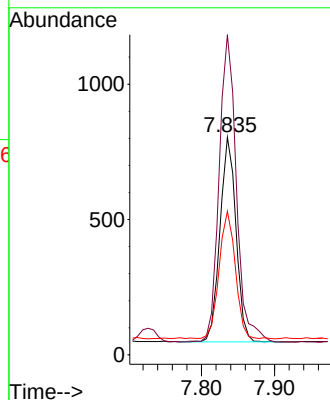
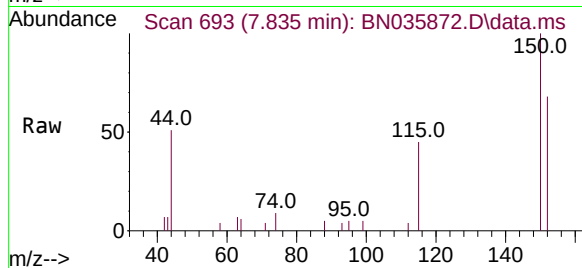




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.835 min Scan# 693
Delta R.T. -0.001 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

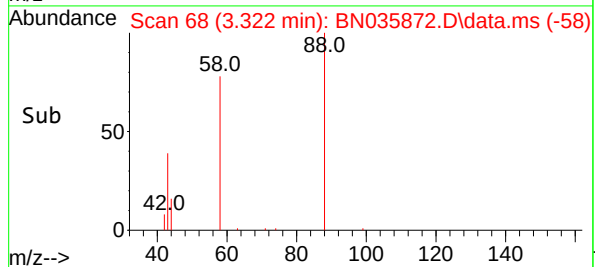
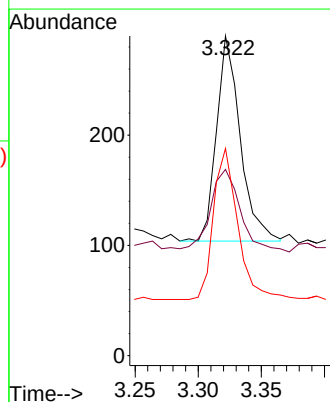
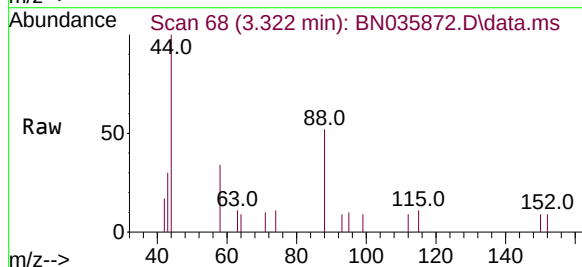
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

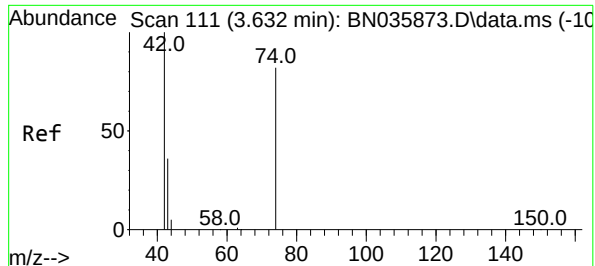
Tgt Ion: 152 Resp: 1152
Ion Ratio Lower Upper
152 100
150 147.1 117.8 176.6
115 65.9 51.0 76.4



#2
1,4-Dioxane
Concen: 0.212 ng
RT: 3.322 min Scan# 68
Delta R.T. -0.000 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

Tgt Ion: 88 Resp: 243
Ion Ratio Lower Upper
88 100
43 45.7 32.7 49.1
58 74.9 63.0 94.4

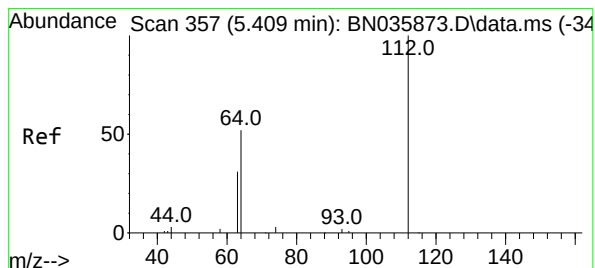
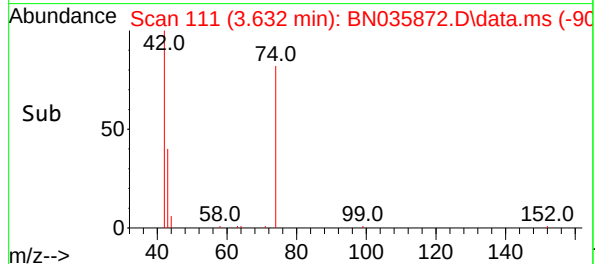
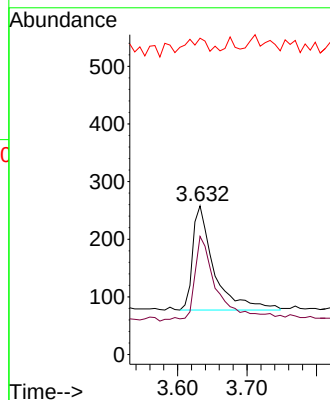
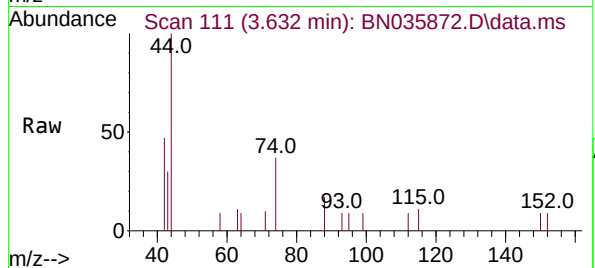




#3
n-Nitrosodimethylamine
Concen: 0.194 ng
RT: 3.632 min Scan# 111
Delta R.T. -0.000 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

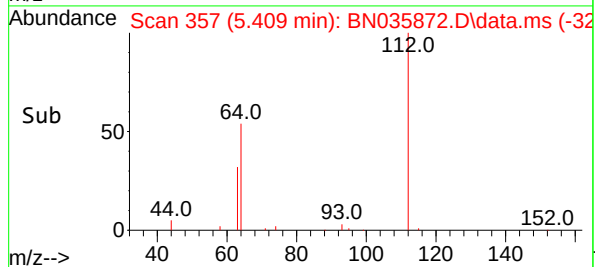
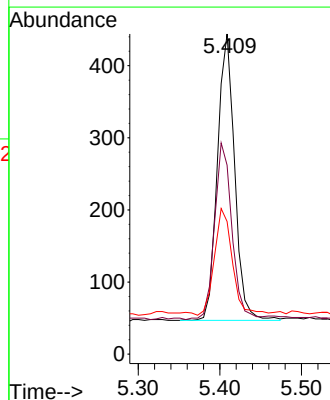
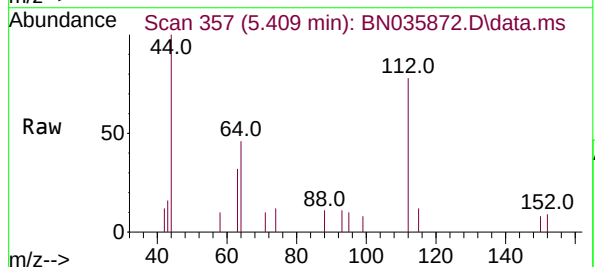
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

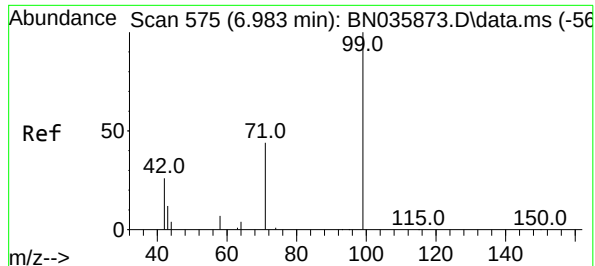
Tgt Ion: 42 Resp: 388
Ion Ratio Lower Upper
42 100
74 88.7 62.2 93.2
44 17.3 7.1 10.7#



#4
2-Fluorophenol
Concen: 0.206 ng
RT: 5.409 min Scan# 357
Delta R.T. -0.000 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

Tgt Ion: 112 Resp: 581
Ion Ratio Lower Upper
112 100
64 62.5 48.2 72.2
63 39.1 30.0 45.0

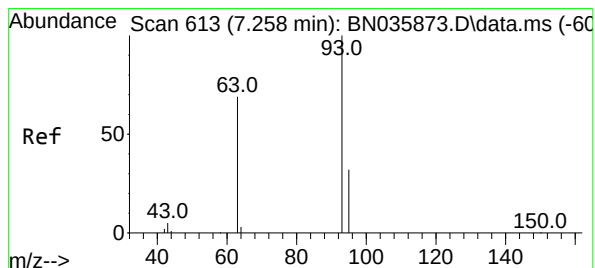
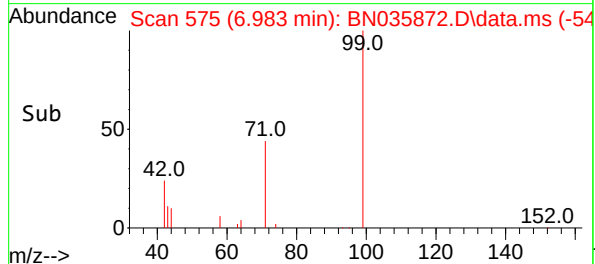
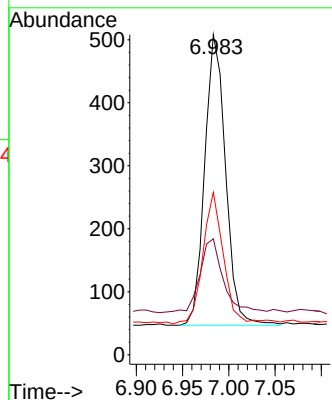
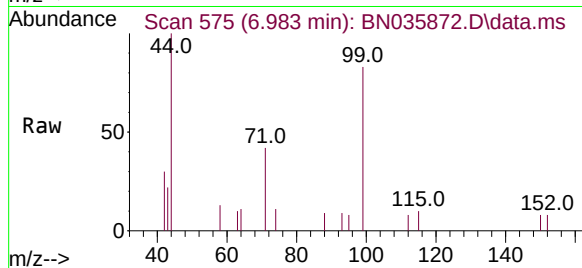




#5
Phenol-d6
Concen: 0.206 ng
RT: 6.983 min Scan# 575
Delta R.T. -0.000 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

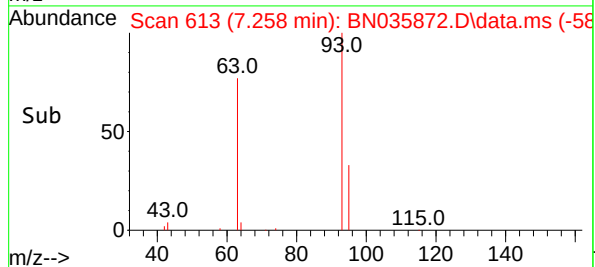
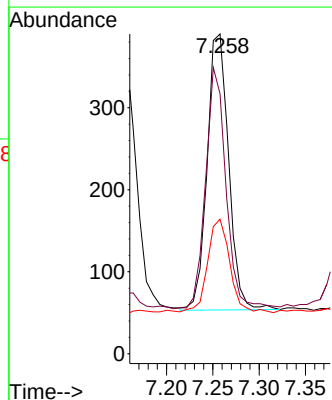
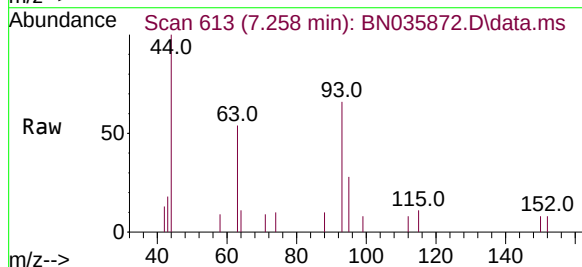
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

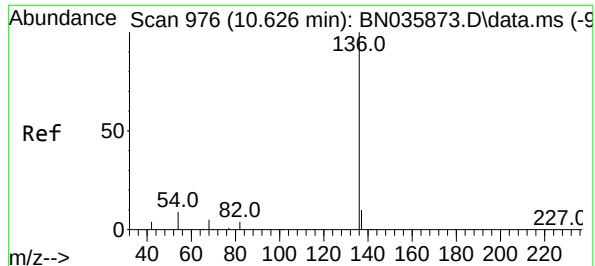
Tgt Ion:	99	Resp:	723
Ion	Ratio	Lower	Upper
99	100		
42	28.2	23.5	35.3
71	44.5	35.5	53.3



#6
bis(2-Chloroethyl)ether
Concen: 0.204 ng
RT: 7.258 min Scan# 613
Delta R.T. -0.000 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

Tgt Ion:	93	Resp:	545
Ion	Ratio	Lower	Upper
93	100		
63	83.3	62.0	93.0
95	35.0	25.5	38.3

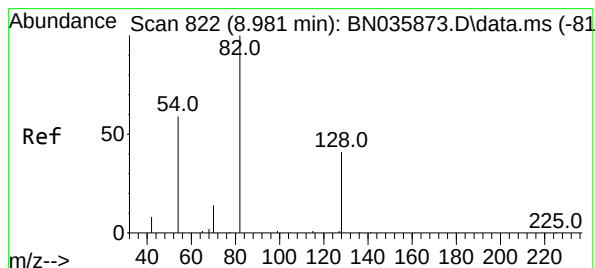
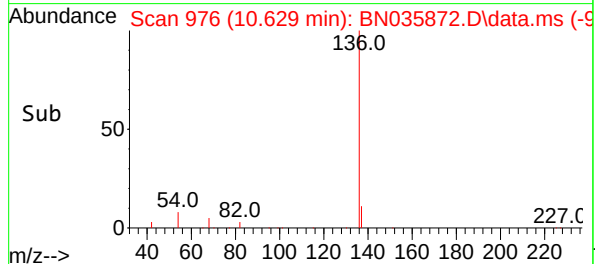
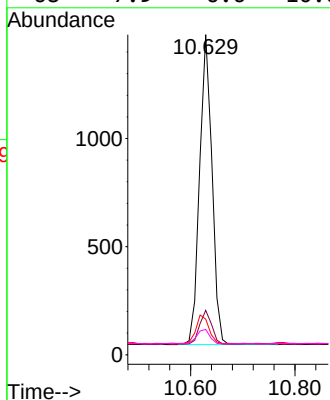
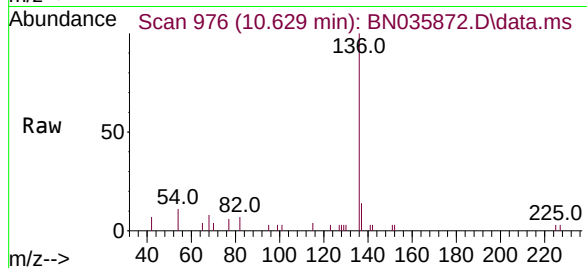




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.629 min Scan# 91
Delta R.T. 0.003 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

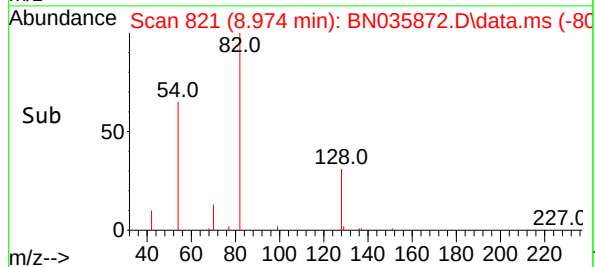
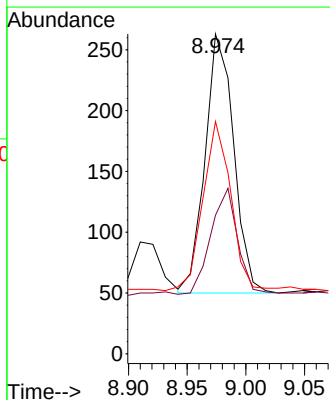
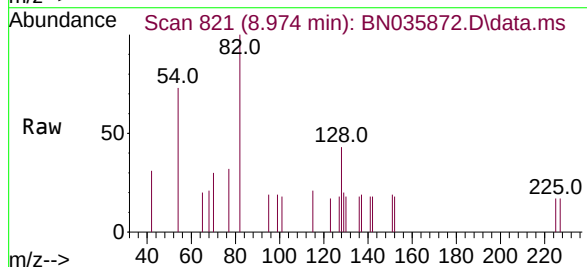
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

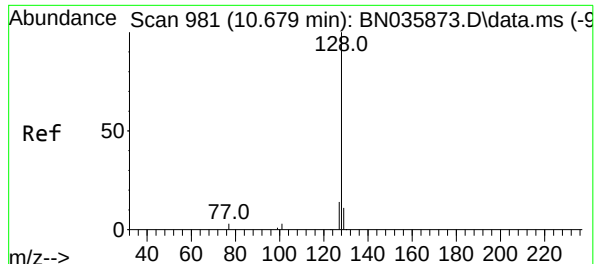
Tgt Ion:	136	Resp:	2364
Ion	Ratio	Lower	Upper
136	100		
137	13.9	10.6	15.8
54	11.1	9.8	14.6
68	7.9	6.6	10.0



#8
Nitrobenzene-d5
Concen: 0.194 ng
RT: 8.974 min Scan# 821
Delta R.T. -0.007 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

Tgt Ion:	82	Resp:	363
Ion	Ratio	Lower	Upper
82	100		
128	43.3	36.9	55.3
54	72.6	50.4	75.6

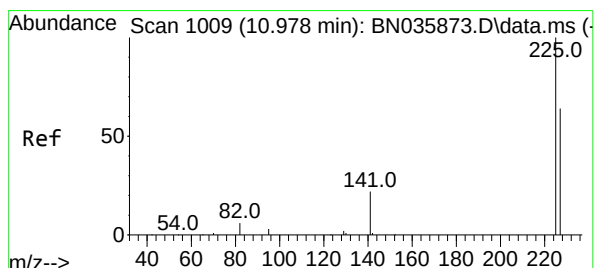
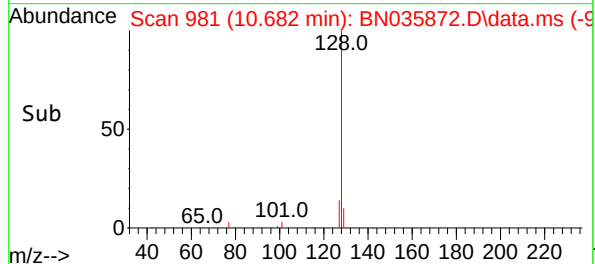
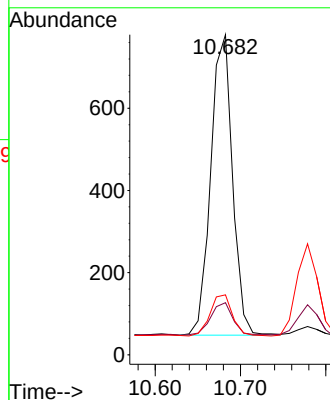
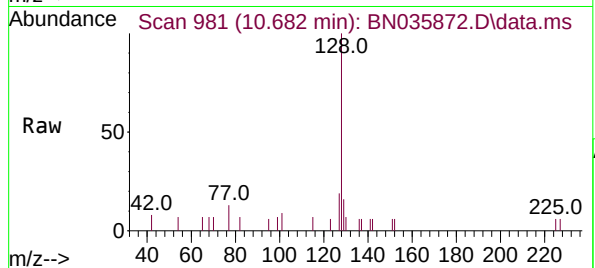




#9
Naphthalene
Concen: 0.195 ng
RT: 10.682 min Scan# 981
Delta R.T. 0.003 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

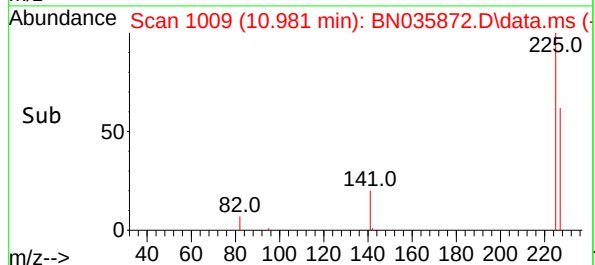
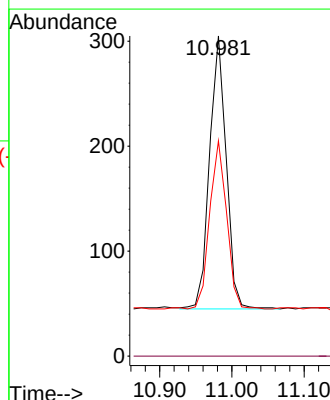
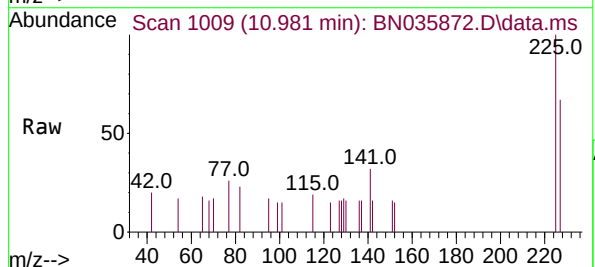
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

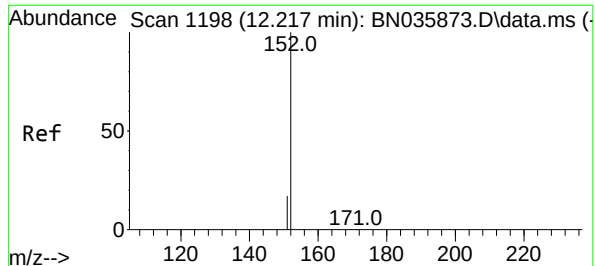
Tgt Ion:128 Resp: 1293
Ion Ratio Lower Upper
128 100
129 16.3 10.6 16.0#
127 18.7 12.8 19.2



#10
Hexachlorobutadiene
Concen: 0.194 ng
RT: 10.981 min Scan# 1009
Delta R.T. 0.003 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

Tgt Ion:225 Resp: 418
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.9 51.5 77.3

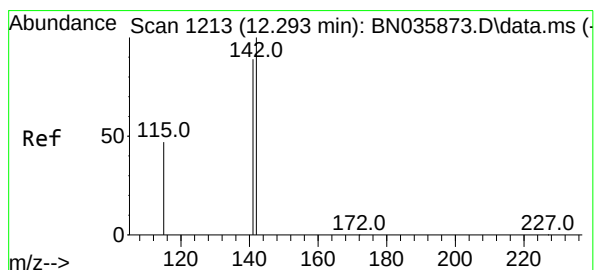
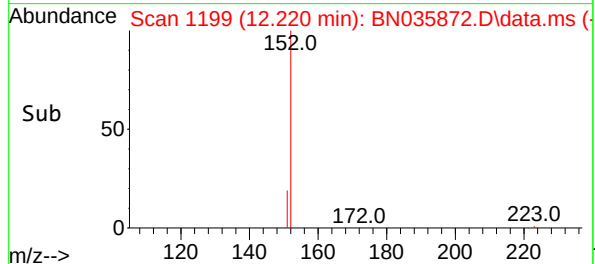
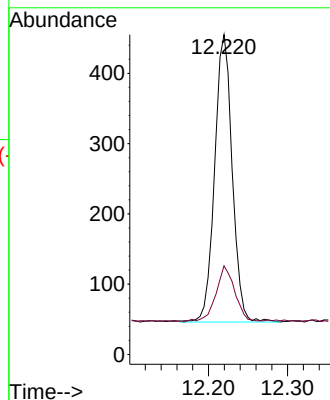
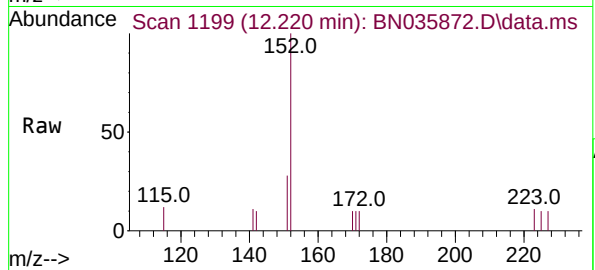




#11
2-Methylnaphthalene-d10
Concen: 0.200 ng
RT: 12.220 min Scan# 1199
Delta R.T. 0.003 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

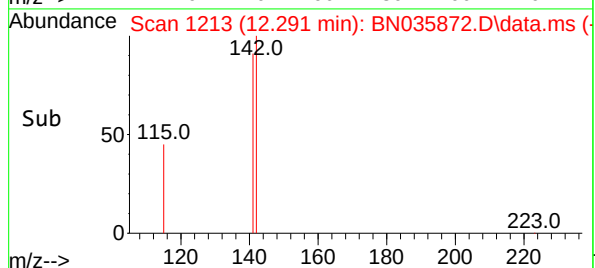
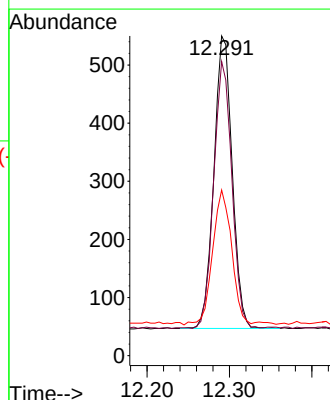
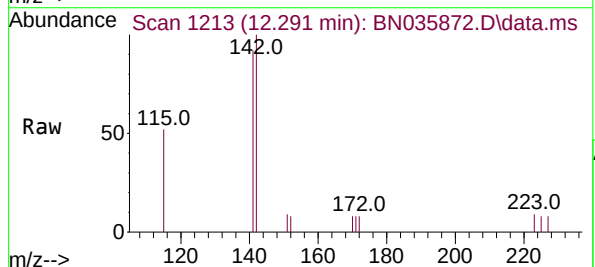
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

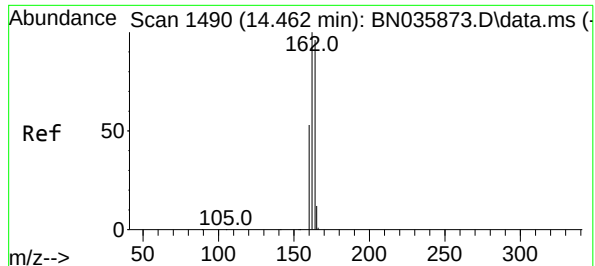
Tgt Ion:152 Resp: 634
Ion Ratio Lower Upper
152 100
151 21.5 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.188 ng
RT: 12.291 min Scan# 1213
Delta R.T. -0.002 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

Tgt Ion:142 Resp: 773
Ion Ratio Lower Upper
142 100
141 92.0 71.9 107.9
115 51.8 39.6 59.4

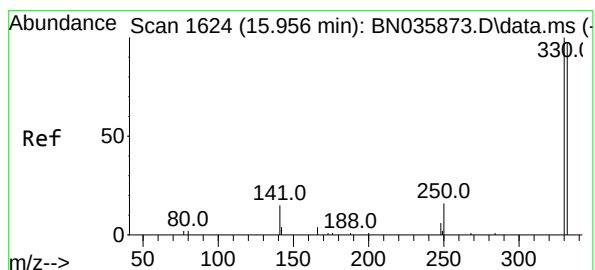
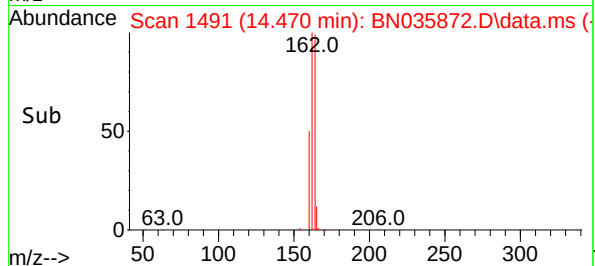
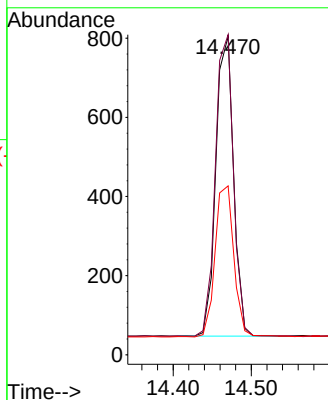
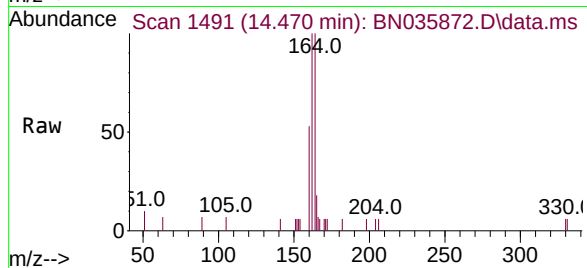




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.470 min Scan# 1491
Delta R.T. 0.008 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

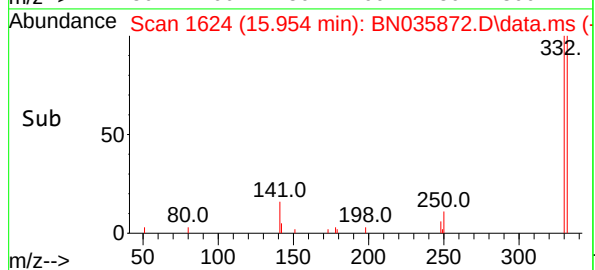
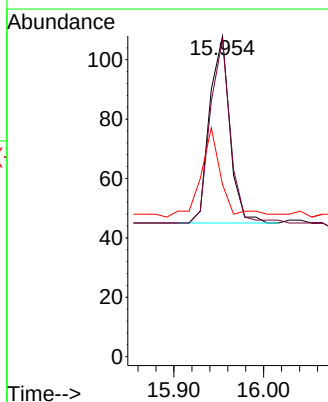
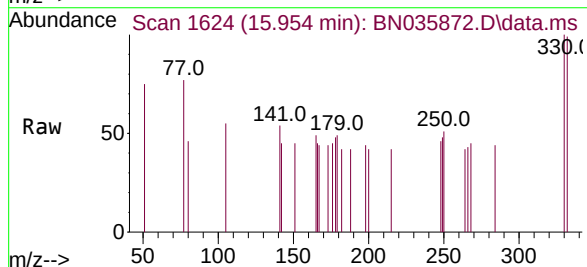
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

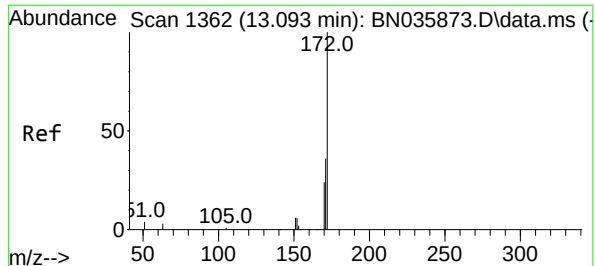
Tgt Ion:164 Resp: 1186
Ion Ratio Lower Upper
164 100
162 100.5 83.1 124.7
160 53.0 46.0 69.0



#14
2,4,6-Tribromophenol
Concen: 0.172 ng
RT: 15.954 min Scan# 1624
Delta R.T. -0.002 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

Tgt Ion:330 Resp: 98
Ion Ratio Lower Upper
330 100
332 99.0 77.2 115.8
141 49.0 31.6 47.4#





#15

2-Fluorobiphenyl

Concen: 0.191 ng

RT: 13.091 min Scan# 1362

Delta R.T. -0.002 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

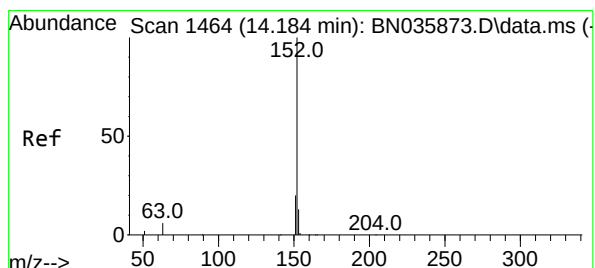
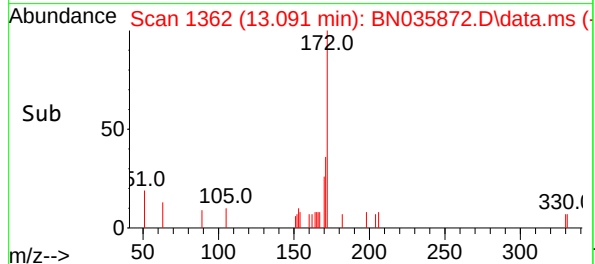
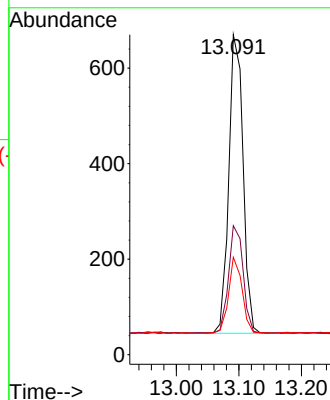
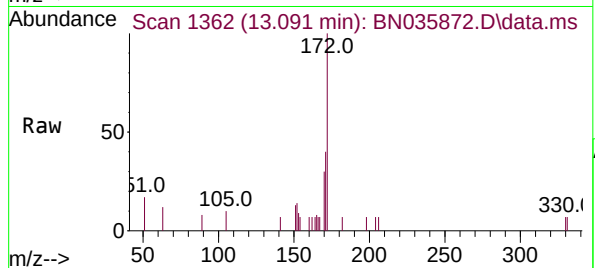
Tgt Ion:172 Resp: 993

Ion Ratio Lower Upper

172 100

171 40.3 30.5 45.7

170 30.4 20.8 31.2



#16

Acenaphthylene

Concen: 0.187 ng

RT: 14.182 min Scan# 1464

Delta R.T. -0.002 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

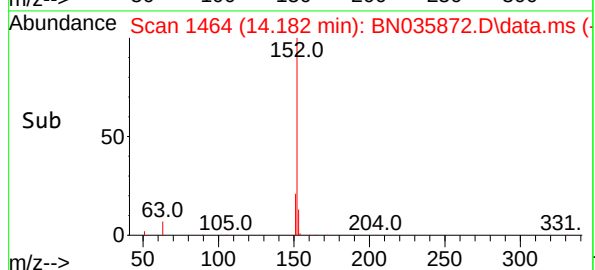
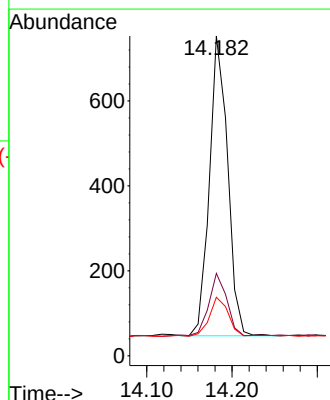
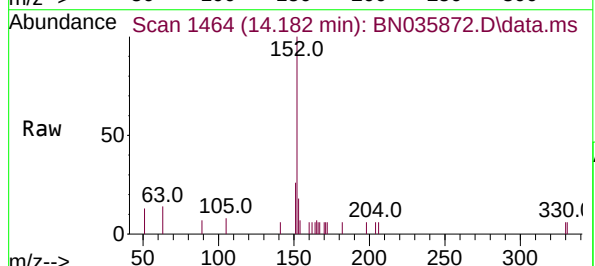
Tgt Ion:152 Resp: 1047

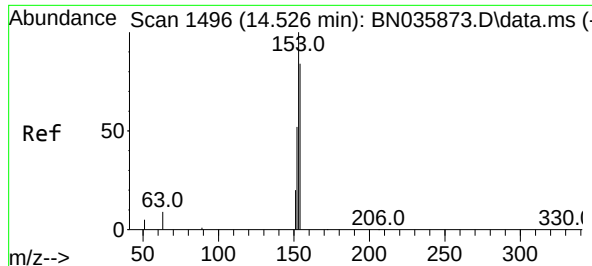
Ion Ratio Lower Upper

152 100

151 21.3 16.3 24.5

153 13.7 10.6 15.8

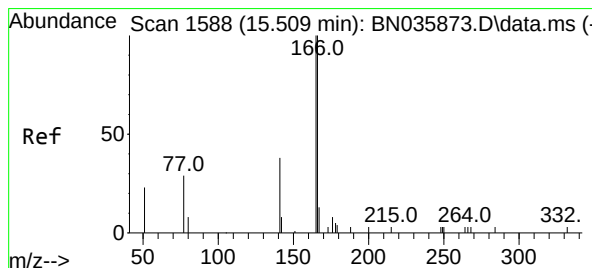
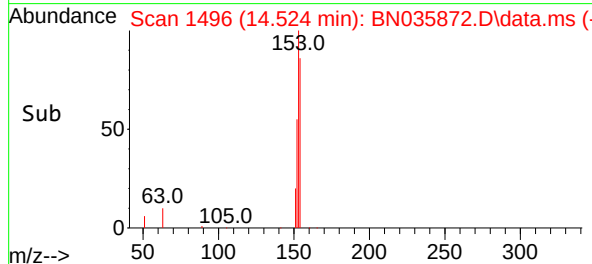
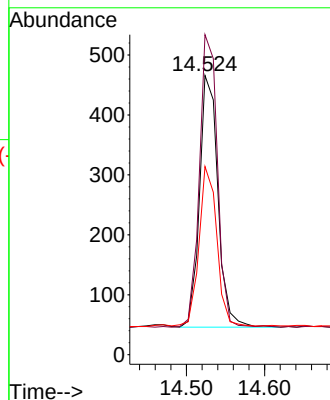
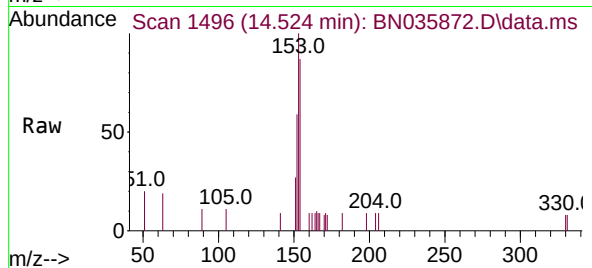




#17
Acenaphthene
Concen: 0.188 ng
RT: 14.524 min Scan# 1496
Delta R.T. -0.002 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

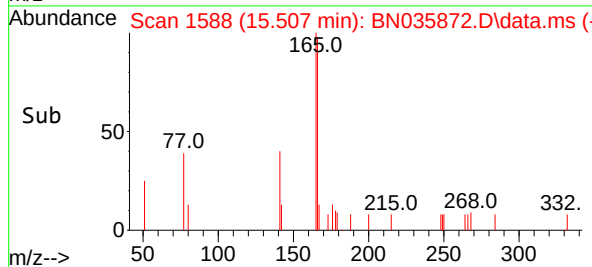
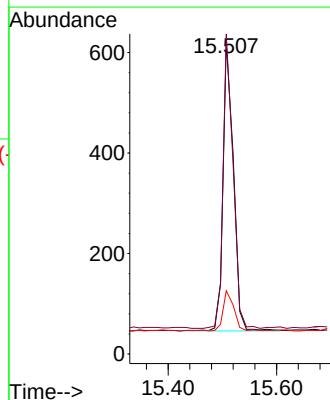
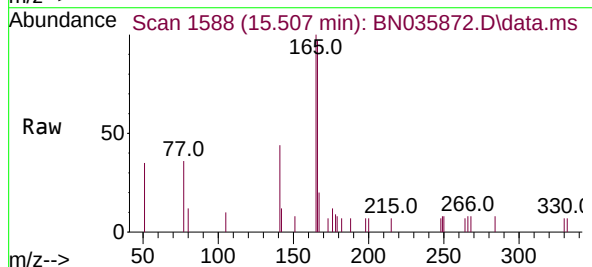
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

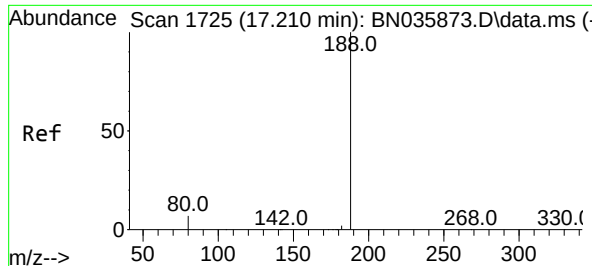
Tgt Ion:154 Resp: 689
Ion Ratio Lower Upper
154 100
153 113.8 90.5 135.7
152 62.1 48.6 73.0



#18
Fluorene
Concen: 0.187 ng
RT: 15.507 min Scan# 1588
Delta R.T. -0.002 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

Tgt Ion:166 Resp: 753
Ion Ratio Lower Upper
166 100
165 98.4 80.6 120.8
167 14.9 11.4 17.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.208 min Scan# 1

Delta R.T. -0.002 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

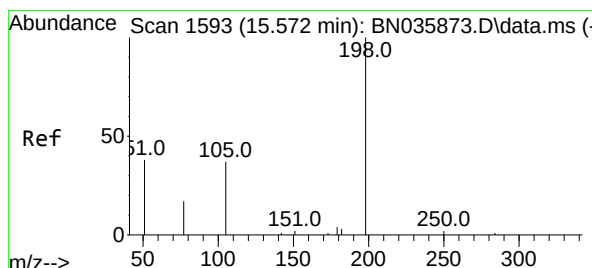
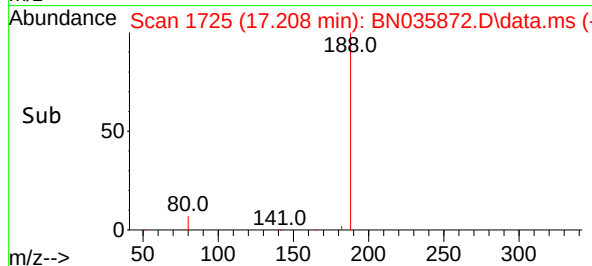
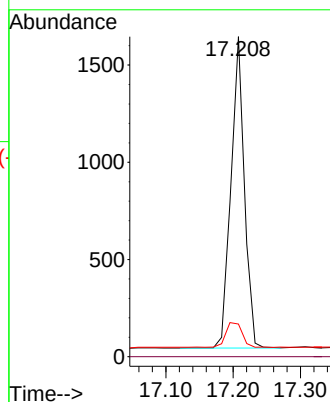
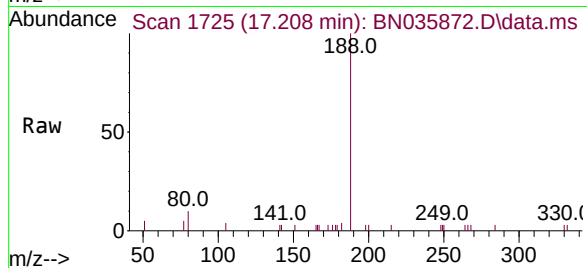
Tgt Ion:188 Resp: 2216

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.2 7.3 10.9



#20

4,6-Dinitro-2-methylphenol

Concen: 0.190 ng

RT: 15.582 min Scan# 1594

Delta R.T. 0.010 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

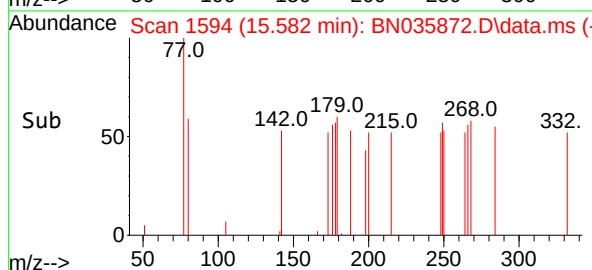
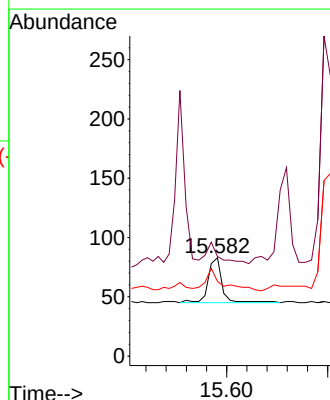
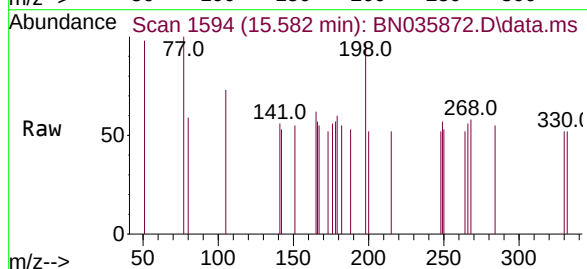
Tgt Ion:198 Resp: 73

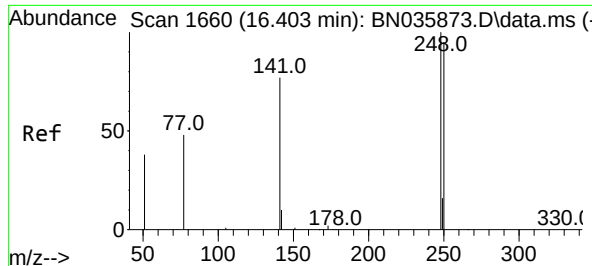
Ion Ratio Lower Upper

198 100

51 101.2 64.3 96.5#

105 75.9 50.0 75.0#

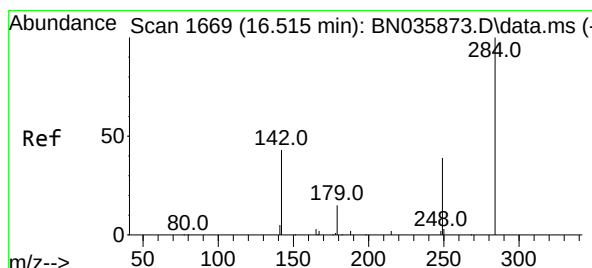
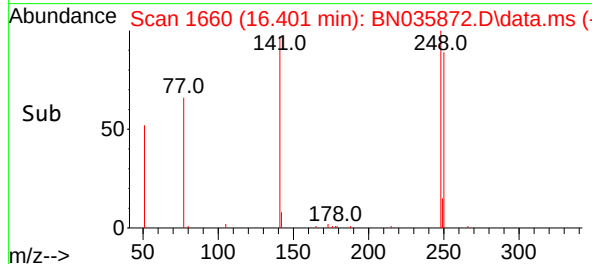
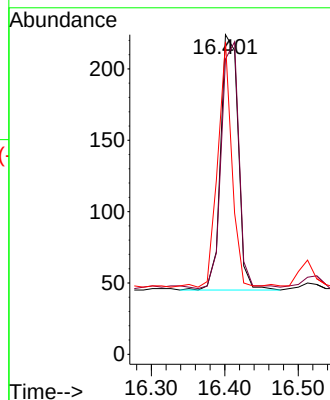
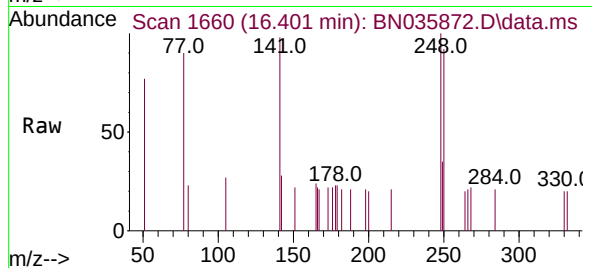




#21
4-Bromophenyl-phenylether
Concen: 0.196 ng
RT: 16.401 min Scan# 1670
Delta R.T. -0.002 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

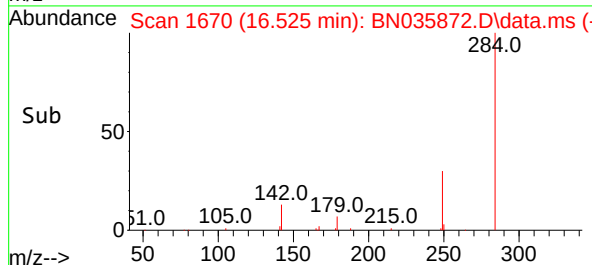
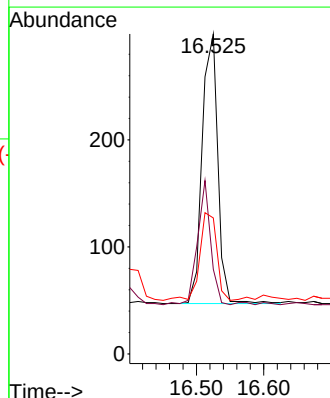
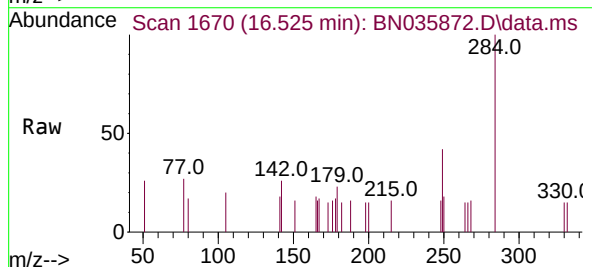
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

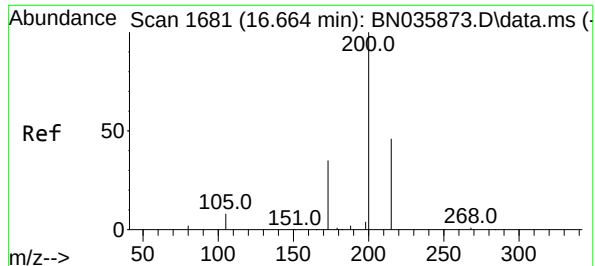
Tgt Ion:248 Resp: 298
Ion Ratio Lower Upper
248 100
250 92.4 76.8 115.2
141 97.8 63.6 95.4#



#22
Hexachlorobenzene
Concen: 0.197 ng
RT: 16.525 min Scan# 1670
Delta R.T. 0.010 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

Tgt Ion:284 Resp: 409
Ion Ratio Lower Upper
284 100
142 38.6 31.4 47.0
249 35.2 27.8 41.8

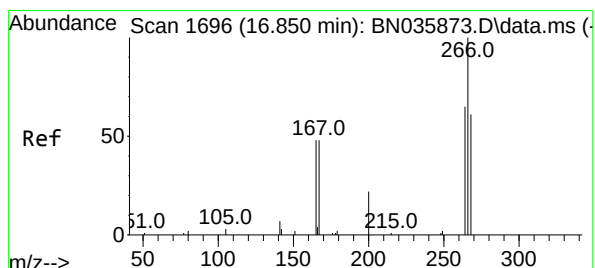
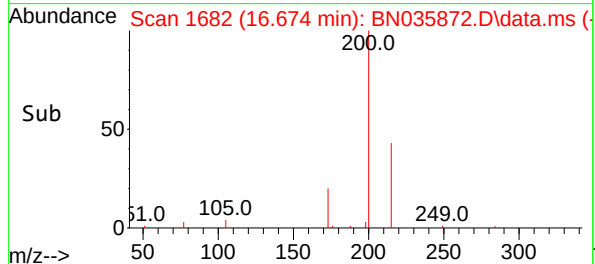
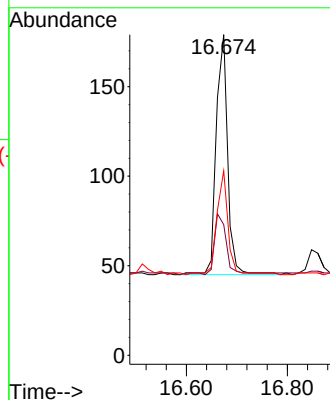
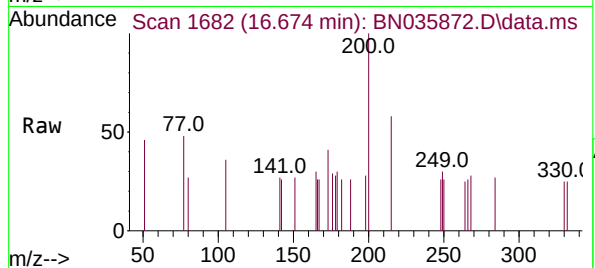




#23
Atrazine
Concen: 0.208 ng
RT: 16.674 min Scan# 1682
Delta R.T. 0.010 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

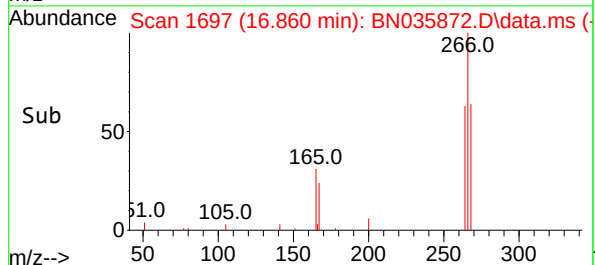
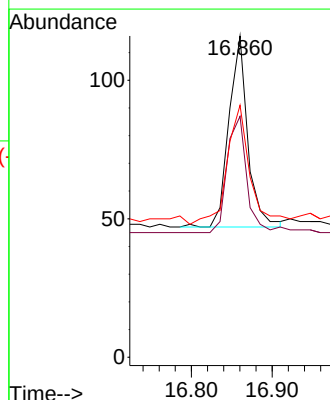
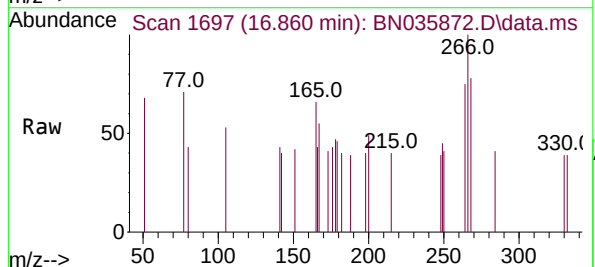
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

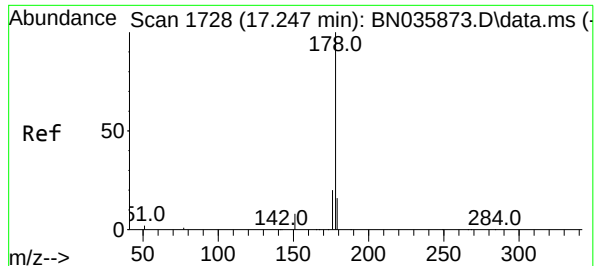
Tgt Ion:200 Resp: 212
Ion Ratio Lower Upper
200 100
173 40.8 35.4 53.0
215 57.5 42.4 63.6



#24
Pentachlorophenol
Concen: 0.153 ng
RT: 16.860 min Scan# 1697
Delta R.T. 0.010 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

Tgt Ion:266 Resp: 112
Ion Ratio Lower Upper
266 100
264 65.2 49.9 74.9
268 75.0 50.2 75.2

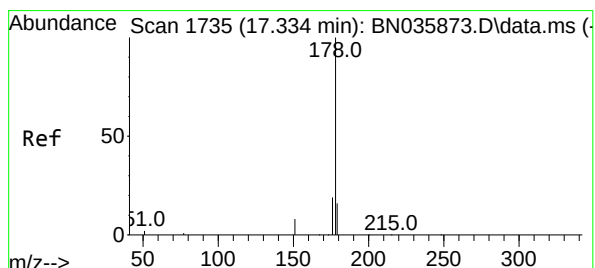
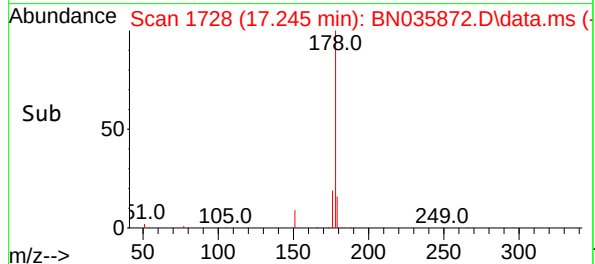
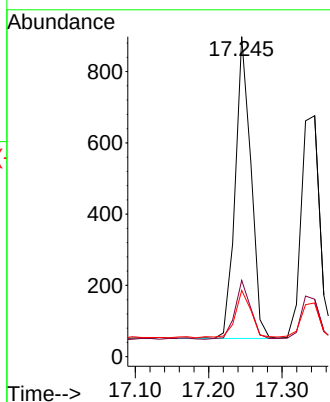
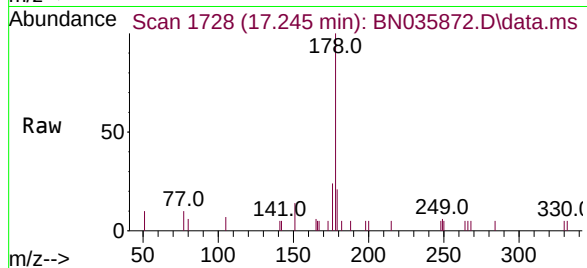




#25
Phenanthrene
Concen: 0.194 ng
RT: 17.245 min Scan# 1728
Delta R.T. -0.002 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

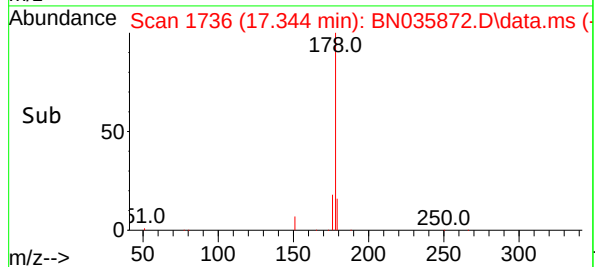
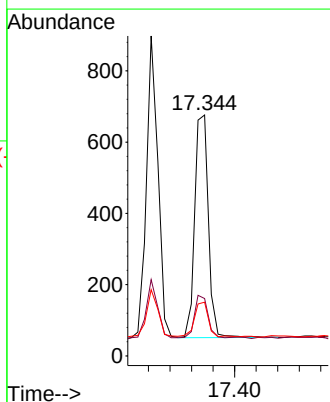
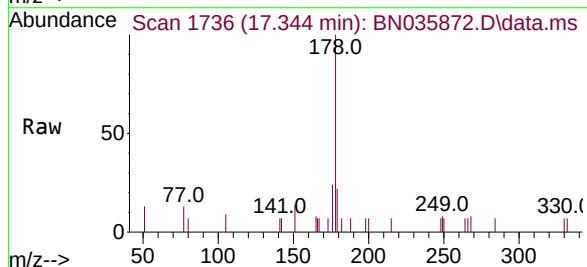
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

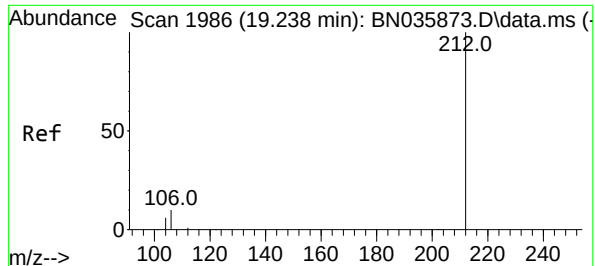
Tgt Ion:178 Resp: 1254
Ion Ratio Lower Upper
178 100
176 19.5 15.9 23.9
179 16.0 12.9 19.3



#26
Anthracene
Concen: 0.188 ng
RT: 17.344 min Scan# 1736
Delta R.T. 0.010 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

Tgt Ion:178 Resp: 1106
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.5 13.0 19.6





#27

Fluoranthene-d10

Concen: 0.192 ng

RT: 19.236 min Scan# 1986

Delta R.T. -0.002 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

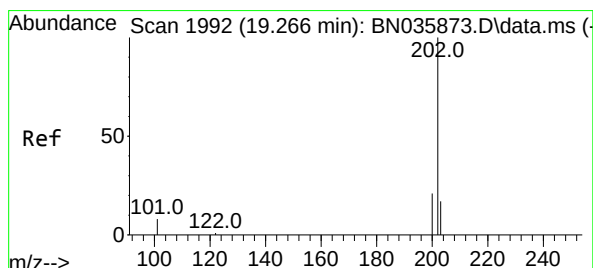
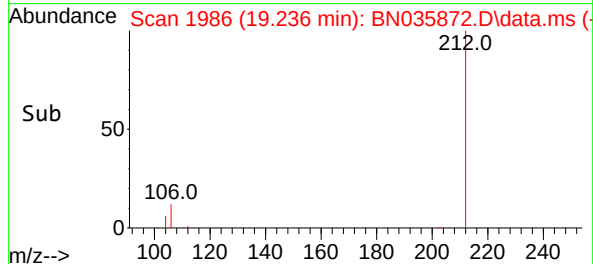
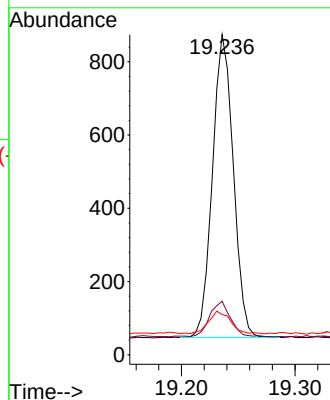
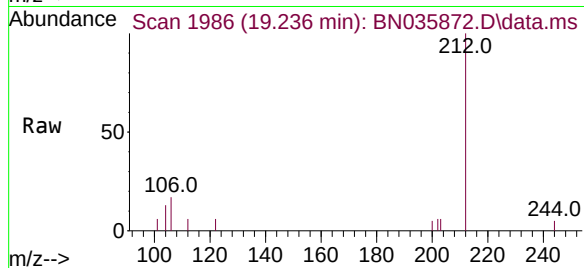
Tgt Ion:212 Resp: 1055

Ion Ratio Lower Upper

212 100

106 11.9 9.0 13.6

104 8.0 5.4 8.2



#28

Fluoranthene

Concen: 0.184 ng

RT: 19.268 min Scan# 1993

Delta R.T. 0.002 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

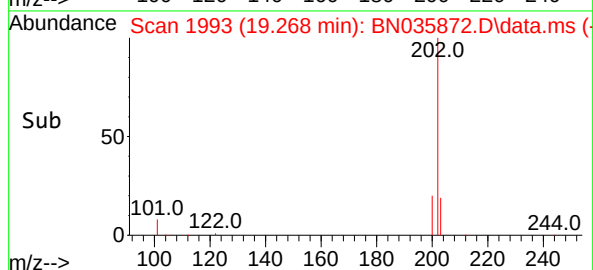
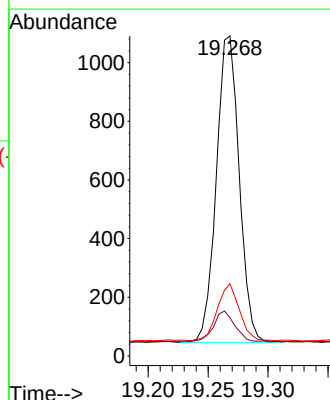
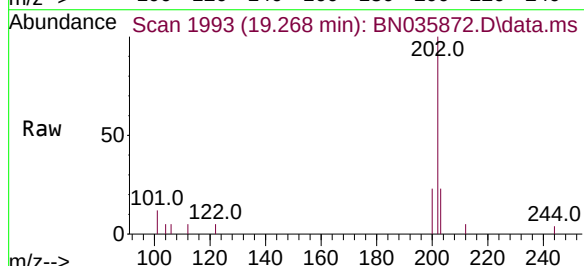
Tgt Ion:202 Resp: 1388

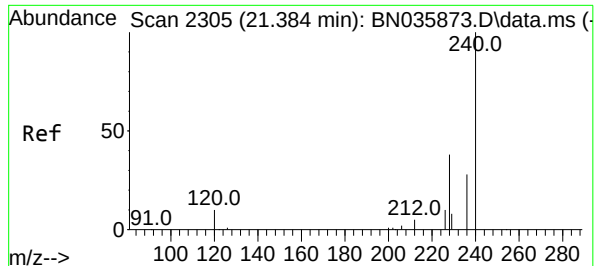
Ion Ratio Lower Upper

202 100

101 9.1 7.2 10.8

203 17.7 13.9 20.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.386 min Scan# 21

Delta R.T. 0.002 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

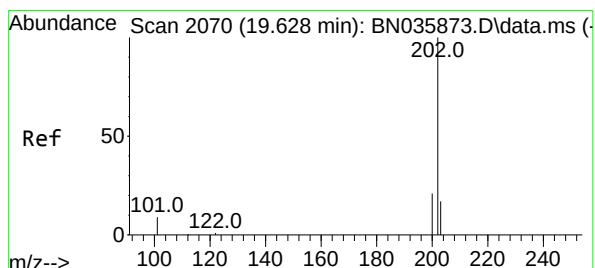
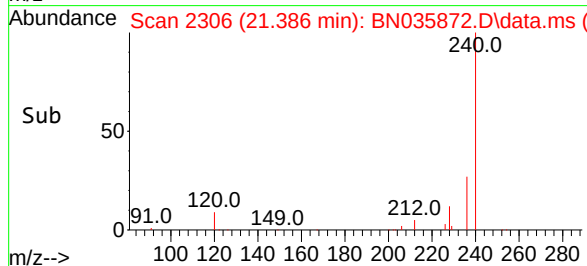
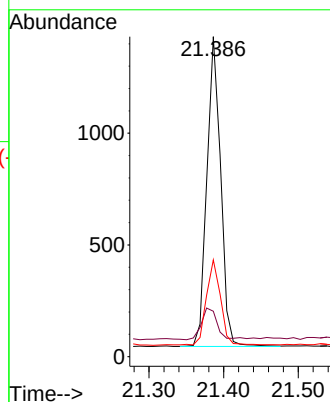
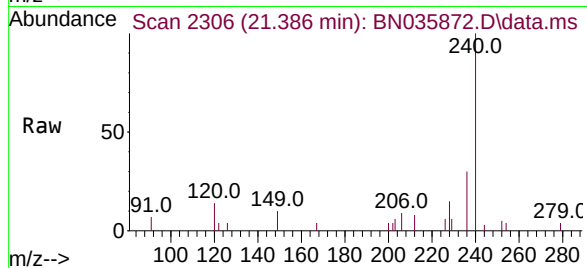
Tgt Ion:240 Resp: 1774

Ion Ratio Lower Upper

240 100

120 14.2 11.1 16.7

236 30.2 24.6 36.8



#30

Pyrene

Concen: 0.200 ng

RT: 19.626 min Scan# 2070

Delta R.T. -0.002 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

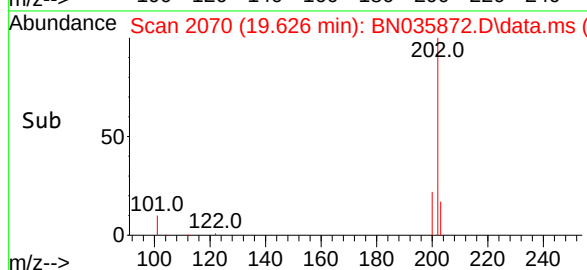
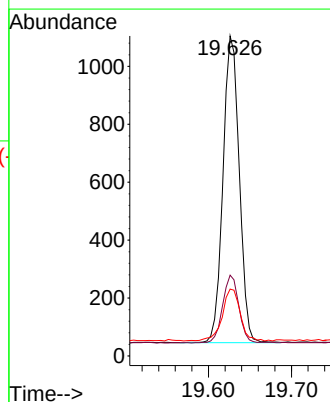
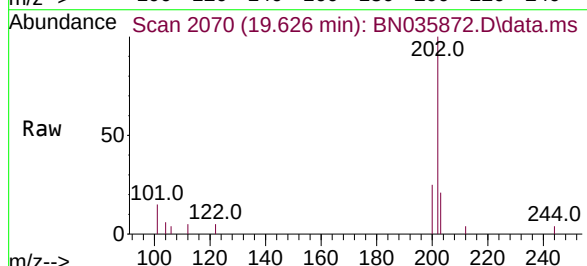
Tgt Ion:202 Resp: 1437

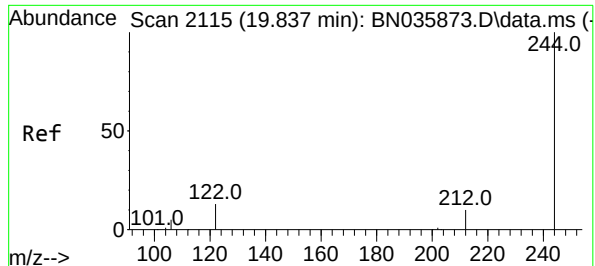
Ion Ratio Lower Upper

202 100

200 22.0 17.0 25.6

203 18.6 14.6 22.0

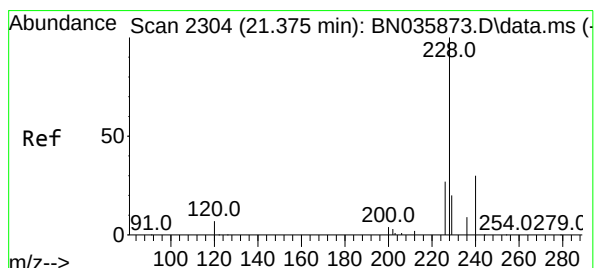
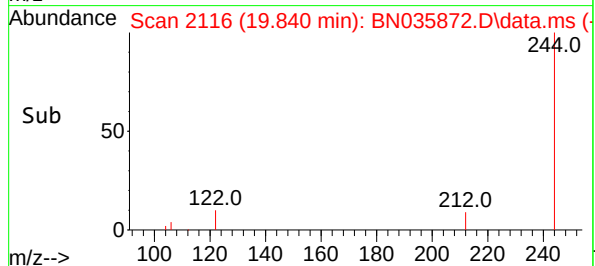
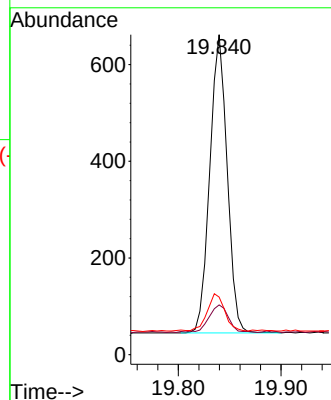
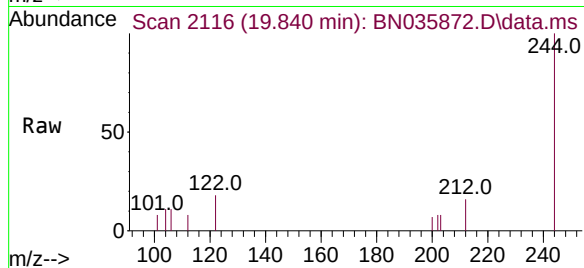




#31
Terphenyl-d14
Concen: 0.204 ng
RT: 19.840 min Scan# 2115
Delta R.T. 0.002 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

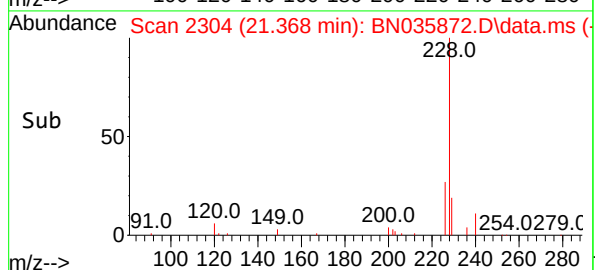
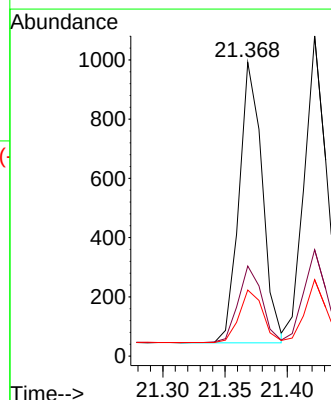
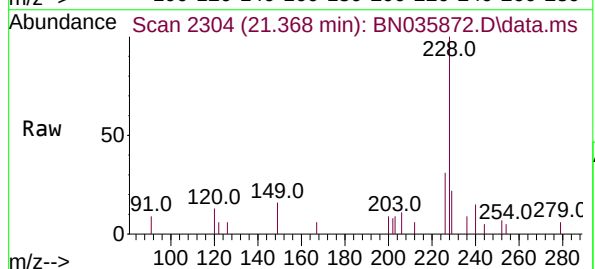
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

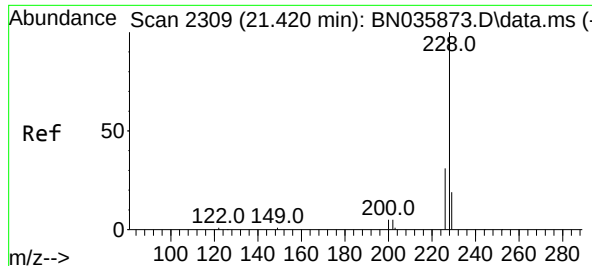
Tgt Ion:244 Resp: 721
Ion Ratio Lower Upper
244 100
212 15.6 10.1 15.1#
122 18.0 12.2 18.4



#32
Benzo(a)anthracene
Concen: 0.196 ng
RT: 21.368 min Scan# 2304
Delta R.T. -0.007 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

Tgt Ion:228 Resp: 1226
Ion Ratio Lower Upper
228 100
226 30.6 22.7 34.1
229 22.5 17.1 25.7





#33

Chrysene

Concen: 0.198 ng

RT: 21.422 min Scan# 21

Delta R.T. 0.002 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

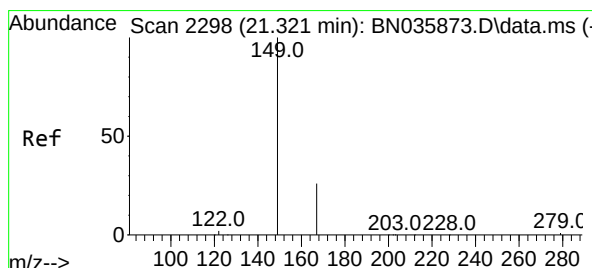
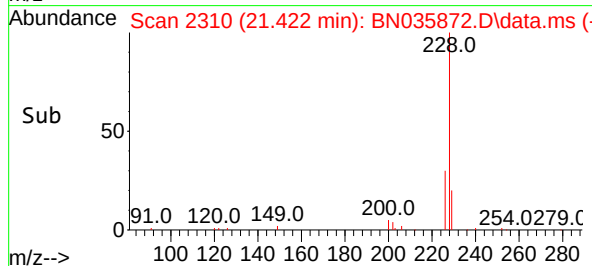
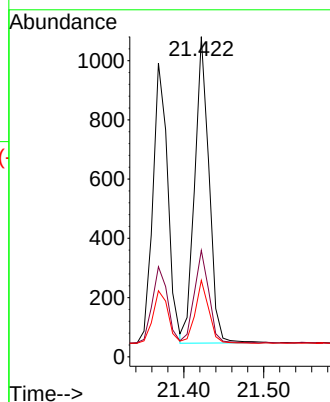
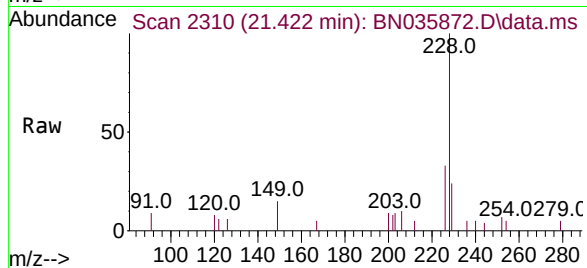
Tgt Ion:228 Resp: 1293

Ion Ratio Lower Upper

228 100

226 33.2 25.2 37.8

229 23.9 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.203 ng

RT: 21.323 min Scan# 2299

Delta R.T. 0.002 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

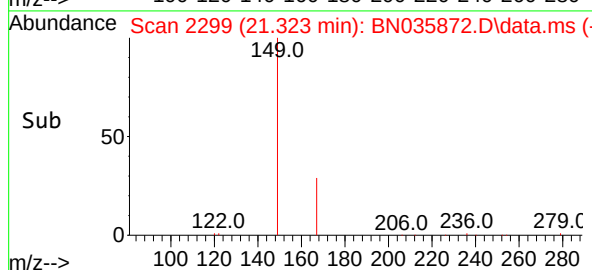
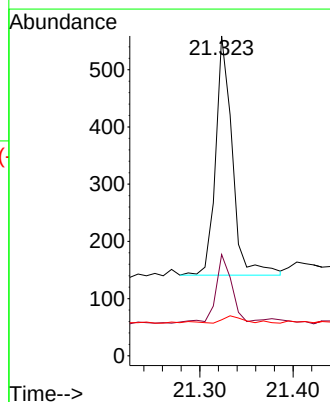
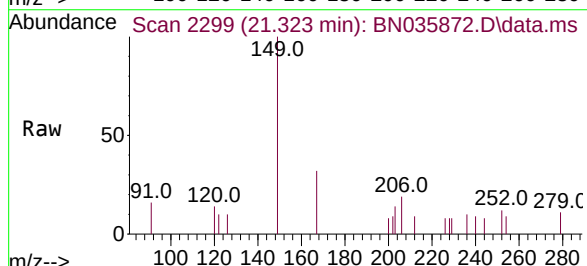
Tgt Ion:149 Resp: 517

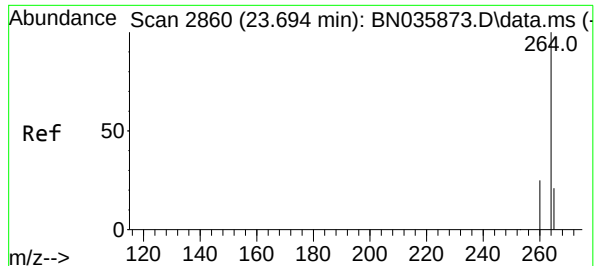
Ion Ratio Lower Upper

149 100

167 28.2 21.4 32.0

279 3.9 3.0 4.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.694 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

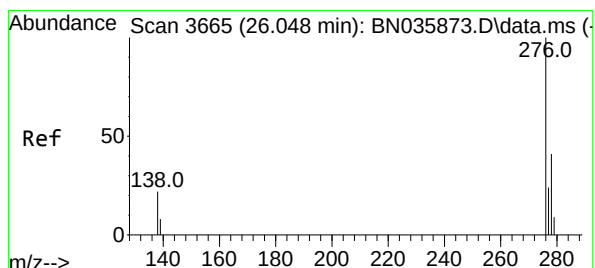
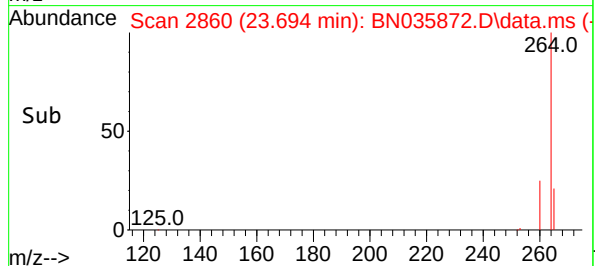
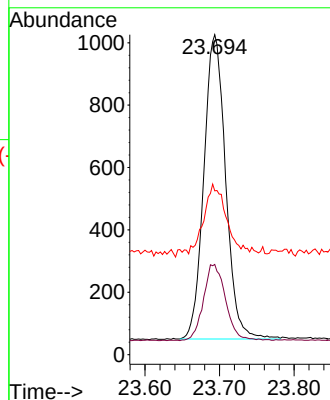
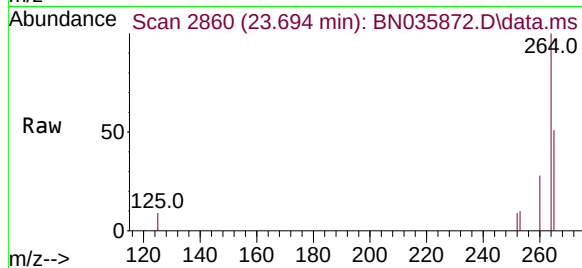
Tgt Ion:264 Resp: 1987

Ion Ratio Lower Upper

264 100

260 28.2 21.7 32.5

265 51.2 33.9 50.9#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.185 ng

RT: 26.050 min Scan# 3666

Delta R.T. 0.002 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

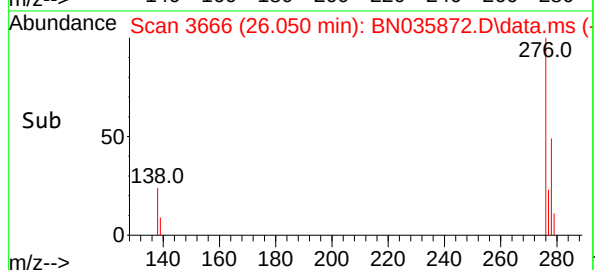
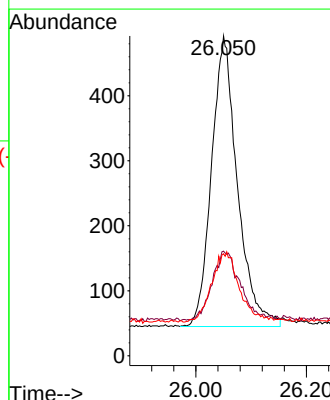
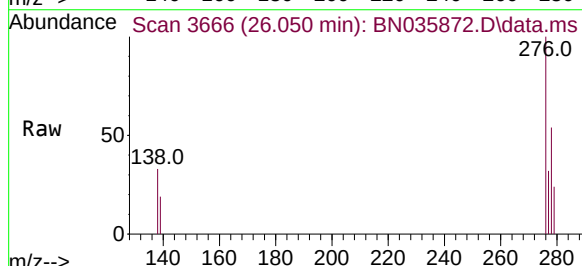
Tgt Ion:276 Resp: 1452

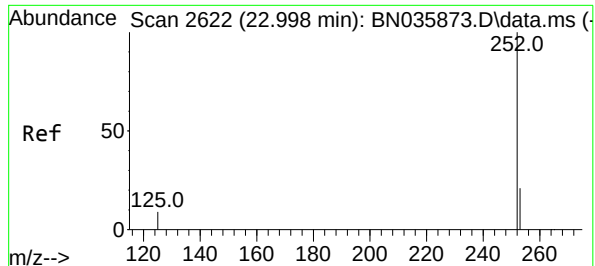
Ion Ratio Lower Upper

276 100

138 24.9 18.9 28.3

277 25.6 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.190 ng

RT: 22.998 min Scan# 2622

Delta R.T. -0.000 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

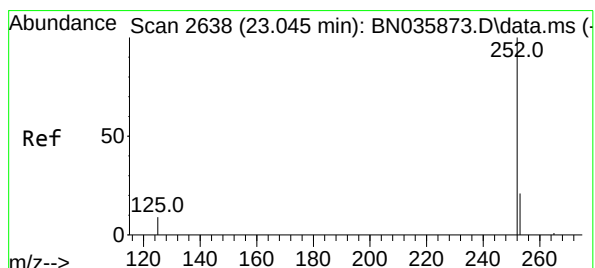
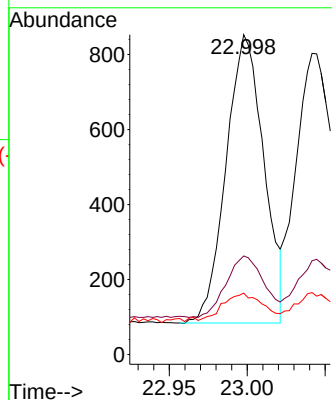
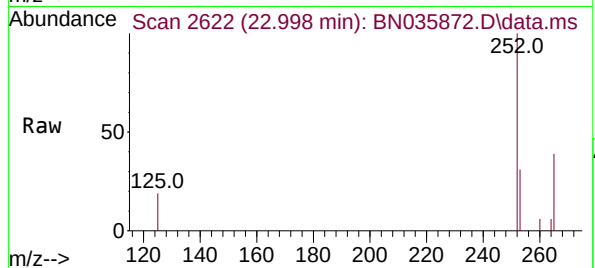
Tgt Ion:252 Resp: 1296

Ion Ratio Lower Upper

252 100

253 30.8 20.1 30.1#

125 19.2 9.9 14.9#



#38

Benzo(k)fluoranthene

Concen: 0.184 ng

RT: 23.042 min Scan# 2637

Delta R.T. -0.003 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

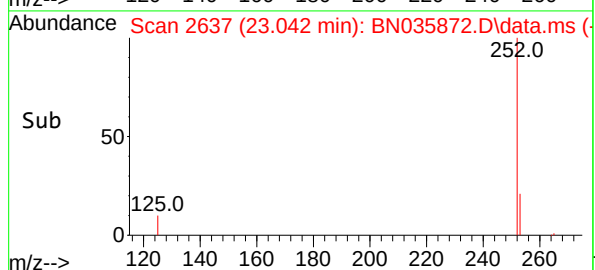
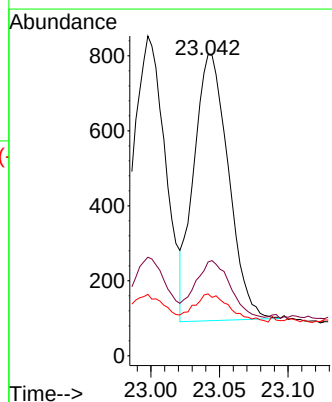
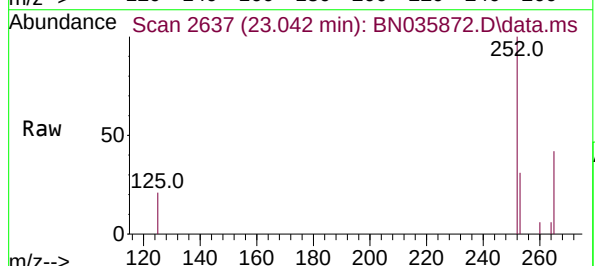
Tgt Ion:252 Resp: 1246

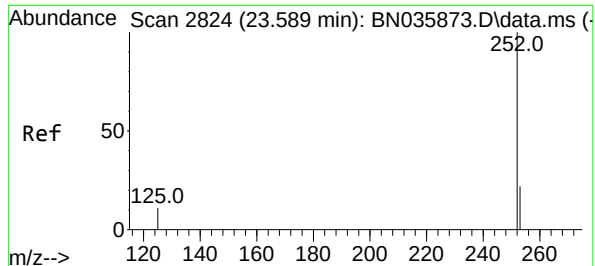
Ion Ratio Lower Upper

252 100

253 31.1 20.5 30.7#

125 20.5 10.6 16.0#





#39

Benzo(a)pyrene

Concen: 0.199 ng

RT: 23.591 min Scan# 21

Delta R.T. 0.002 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

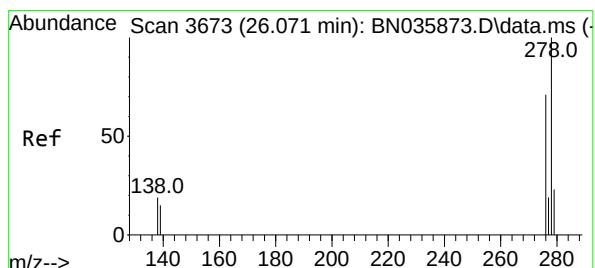
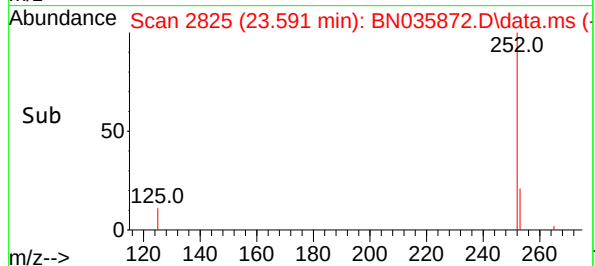
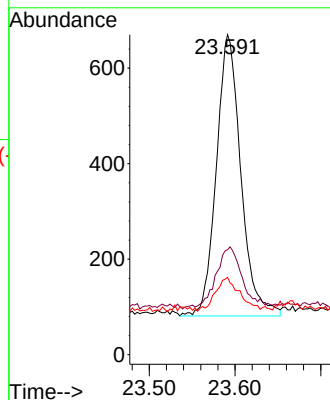
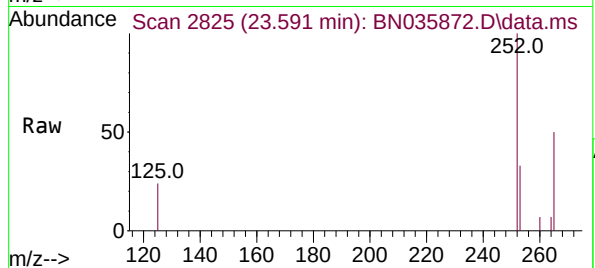
Tgt Ion:252 Resp: 1173

Ion Ratio Lower Upper

252 100

253 32.8 21.5 32.3#

125 24.2 12.6 19.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.184 ng

RT: 26.070 min Scan# 3673

Delta R.T. -0.000 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

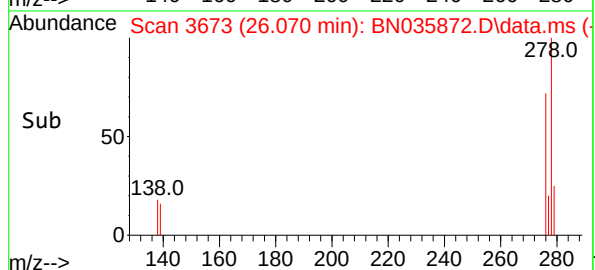
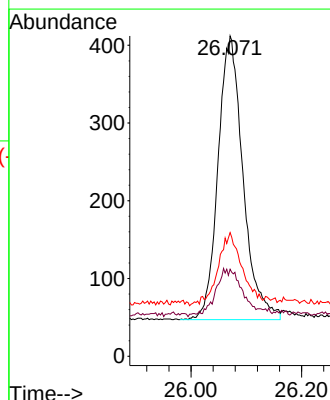
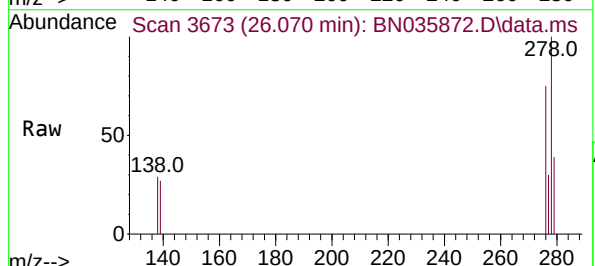
Tgt Ion:278 Resp: 1145

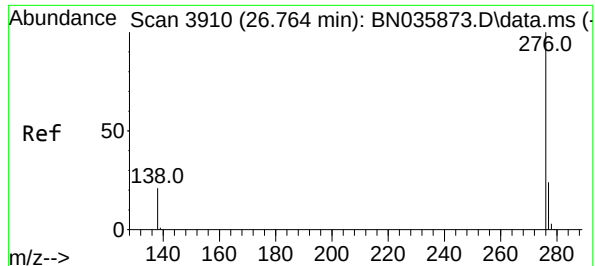
Ion Ratio Lower Upper

278 100

139 27.2 15.9 23.9#

279 38.6 23.0 34.4#





#41

Benzo(g,h,i)perylene

Concen: 0.188 ng

RT: 26.766 min Scan# 3910

Delta R.T. 0.002 min

Lab File: BN035872.D

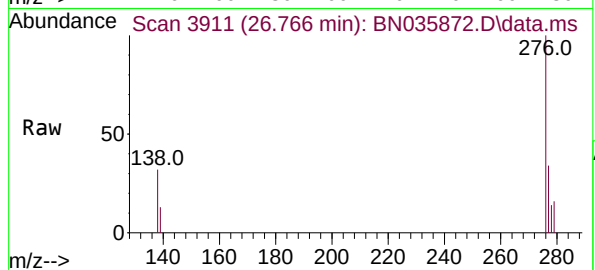
Acq: 02 Jan 2025 12:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



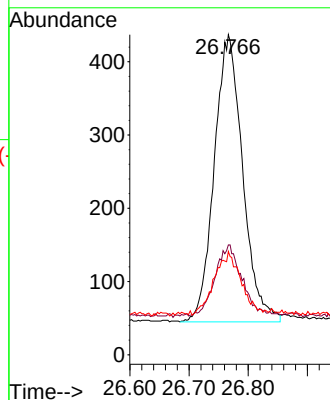
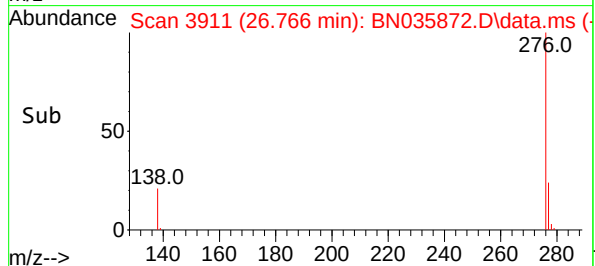
Tgt Ion:276 Resp: 1307

Ion Ratio Lower Upper

276 100

277 34.3 22.8 34.2#

138 32.3 20.1 30.1#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
 Data File : BN035873.D
 Acq On : 02 Jan 2025 12:40
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Jan 02 15:49:48 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

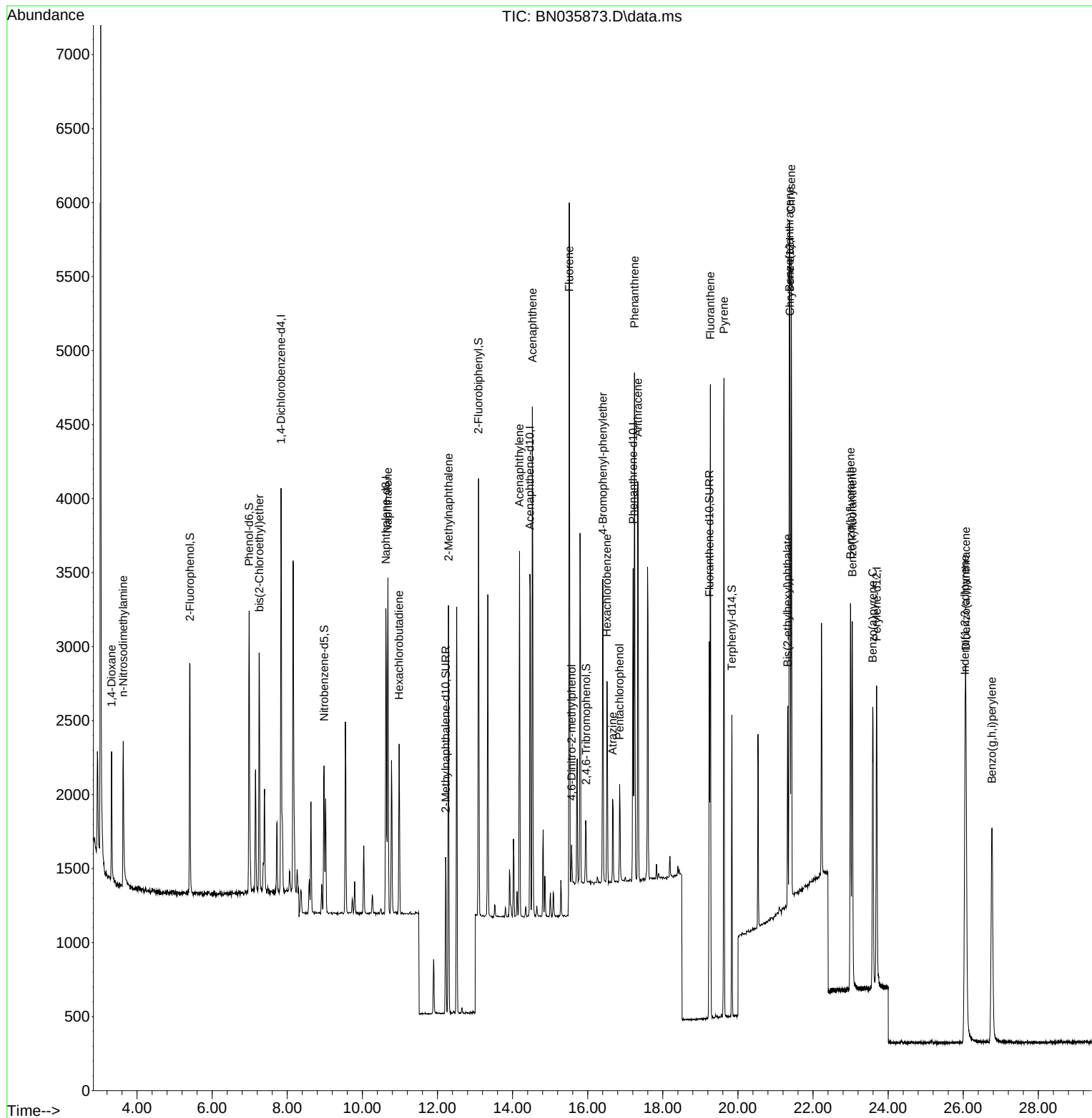
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.836	152	1261	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	2582	0.400	ng	0.00
13) Acenaphthene-d10	14.462	164	1358	0.400	ng	0.00
19) Phenanthrene-d10	17.210	188	2769	0.400	ng	0.00
29) Chrysene-d12	21.384	240	2381	0.400	ng	0.00
35) Perylene-d12	23.694	264	2623	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.409	112	1200	0.388	ng	0.00
5) Phenol-d6	6.983	99	1488	0.387	ng	0.00
8) Nitrobenzene-d5	8.981	82	764	0.374	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	1360	0.393	ng	0.00
14) 2,4,6-Tribromophenol	15.956	330	256	0.393	ng	0.00
15) 2-Fluorobiphenyl	13.093	172	2320	0.389	ng	0.00
27) Fluoranthene-d10	19.238	212	2707	0.394	ng	0.00
31) Terphenyl-d14	19.837	244	1882	0.397	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.322	88	470	0.375	ng	100
3) n-Nitrosodimethylamine	3.632	42	853	0.390	ng	100
6) bis(2-Chloroethyl)ether	7.258	93	1180	0.403	ng	100
9) Naphthalene	10.679	128	2805	0.387	ng	100
10) Hexachlorobutadiene	10.978	225	912	0.388	ng	# 100
12) 2-Methylnaphthalene	12.293	142	1768	0.394	ng	100
16) Acenaphthylene	14.184	152	2470	0.386	ng	100
17) Acenaphthene	14.526	154	1627	0.388	ng	100
18) Fluorene	15.509	166	1775	0.385	ng	100
20) 4,6-Dinitro-2-methylph...	15.572	198	185	0.385	ng	100
21) 4-Bromophenyl-phenylether	16.403	248	743	0.391	ng	100
22) Hexachlorobenzene	16.515	284	986	0.381	ng	100
23) Atrazine	16.664	200	486	0.382	ng	100
24) Pentachlorophenol	16.850	266	327	0.357	ng	100
25) Phenanthrene	17.247	178	3161	0.391	ng	100
26) Anthracene	17.334	178	2792	0.380	ng	100
28) Fluoranthene	19.266	202	3684	0.391	ng	100
30) Pyrene	19.628	202	3740	0.387	ng	100
32) Benzo(a)anthracene	21.375	228	3201	0.381	ng	100
33) Chrysene	21.420	228	3430	0.391	ng	100
34) Bis(2-ethylhexyl)phtha...	21.321	149	1386	0.406	ng	100
36) Indeno(1,2,3-cd)pyrene	26.048	276	3709	0.359	ng	100
37) Benzo(b)fluoranthene	22.998	252	3395	0.377	ng	100
38) Benzo(k)fluoranthene	23.045	252	3282	0.368	ng	100
39) Benzo(a)pyrene	23.589	252	2848	0.365	ng	100
40) Dibenzo(a,h)anthracene	26.071	278	2902	0.353	ng	100
41) Benzo(g,h,i)perylene	26.764	276	3265	0.355	ng	100

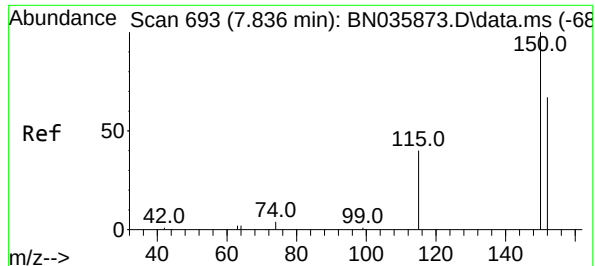
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
 Data File : BN035873.D
 Acq On : 02 Jan 2025 12:40
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Jan 02 15:49:48 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

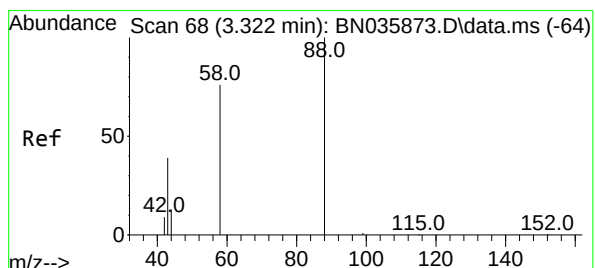
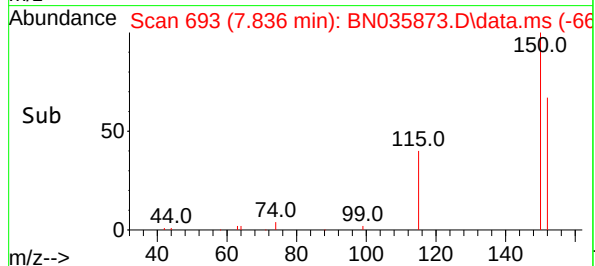
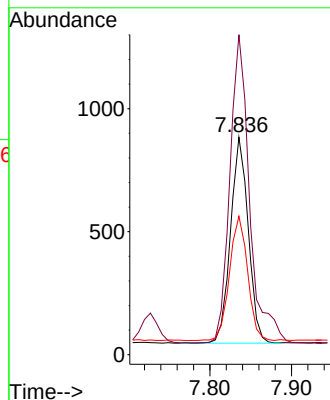
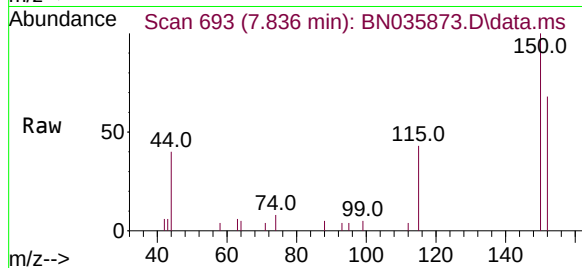




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.836 min Scan# 693
Delta R.T. -0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

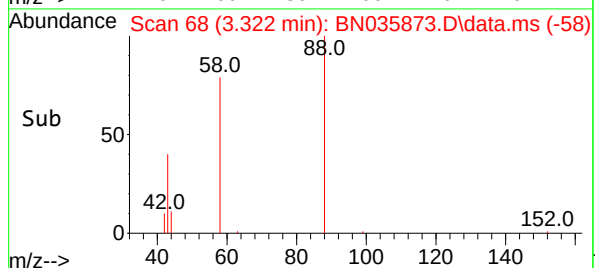
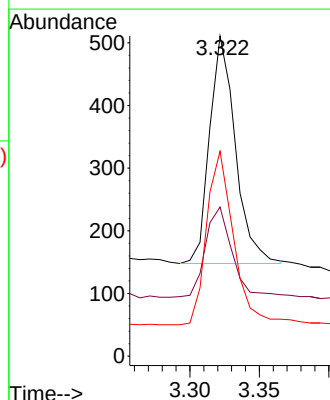
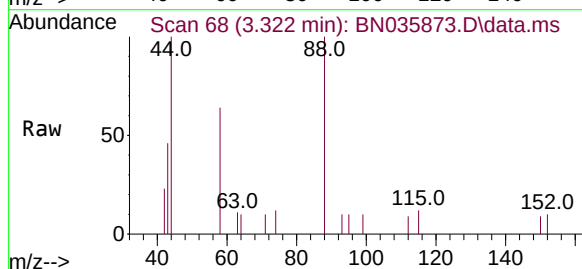
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

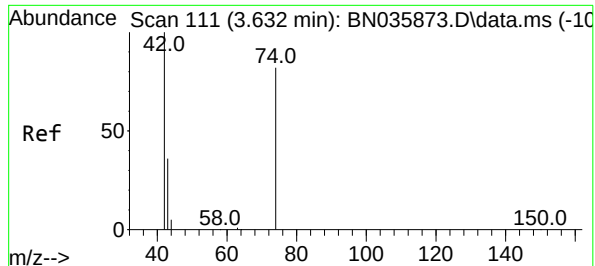
Tgt Ion: 152 Resp: 1261
Ion Ratio Lower Upper
152 100
150 147.2 117.8 176.6
115 63.7 51.0 76.4



#2
1,4-Dioxane
Concen: 0.375 ng
RT: 3.322 min Scan# 68
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

Tgt Ion: 88 Resp: 470
Ion Ratio Lower Upper
88 100
43 40.9 32.7 49.1
58 78.7 63.0 94.4

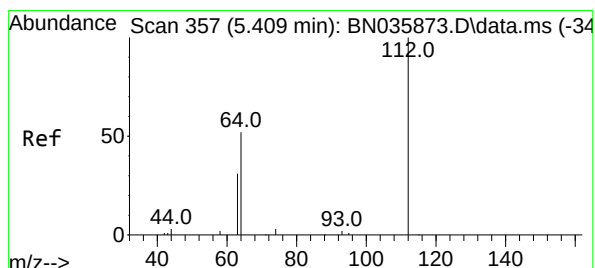
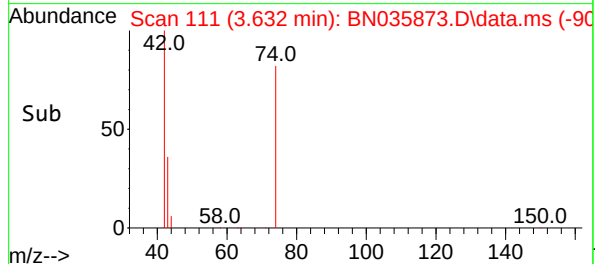
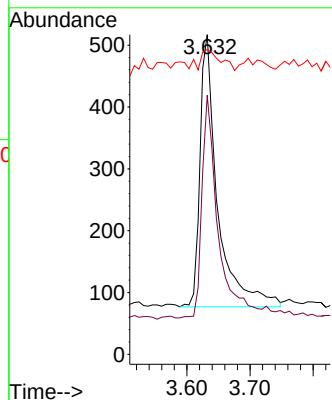
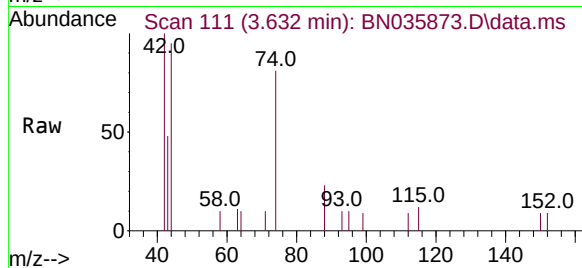




#3
n-Nitrosodimethylamine
Concen: 0.390 ng
RT: 3.632 min Scan# 111
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

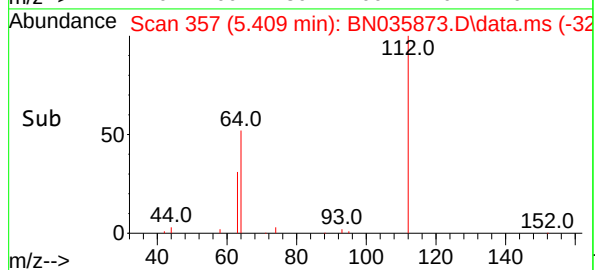
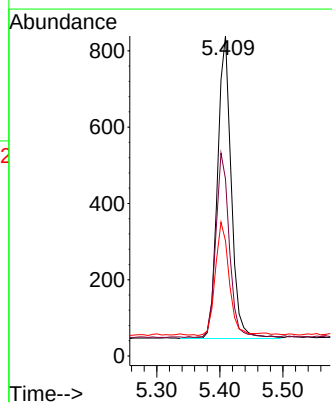
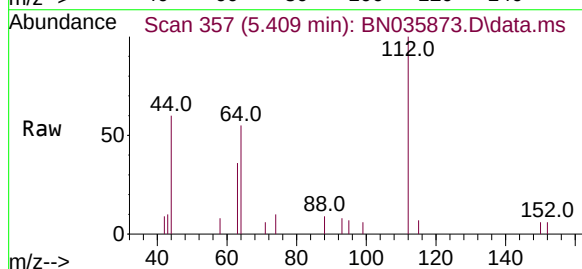
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

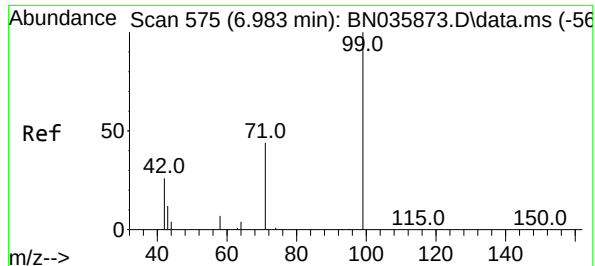
Tgt Ion: 42 Resp: 853
Ion Ratio Lower Upper
42 100
74 77.7 62.2 93.2
44 8.9 7.1 10.7



#4
2-Fluorophenol
Concen: 0.388 ng
RT: 5.409 min Scan# 357
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

Tgt Ion: 112 Resp: 1200
Ion Ratio Lower Upper
112 100
64 60.2 48.2 72.2
63 37.5 30.0 45.0

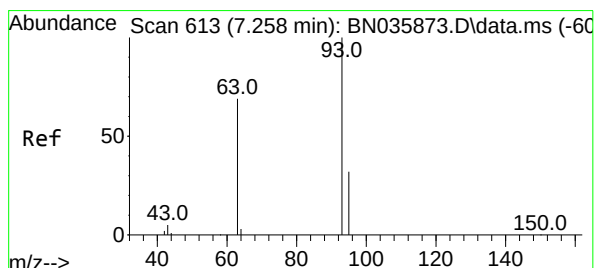
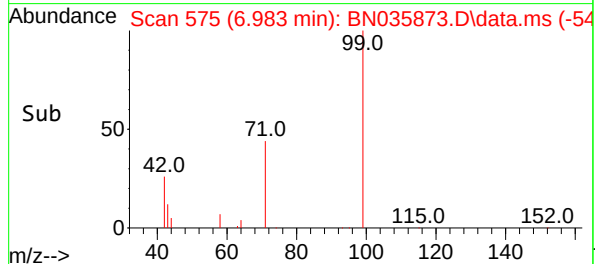
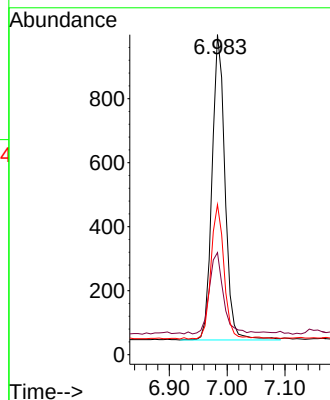
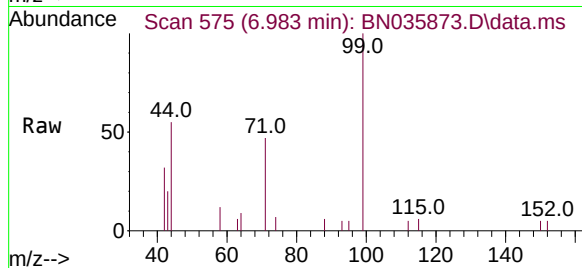




#5
Phenol-d6
Concen: 0.387 ng
RT: 6.983 min Scan# 575
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

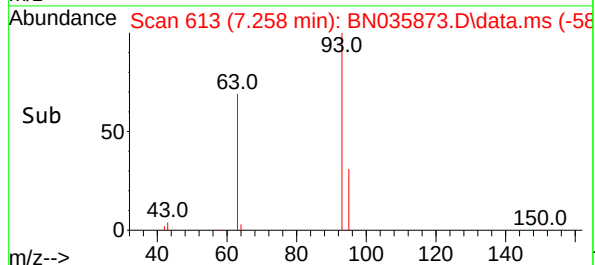
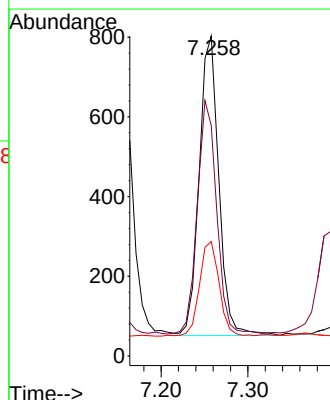
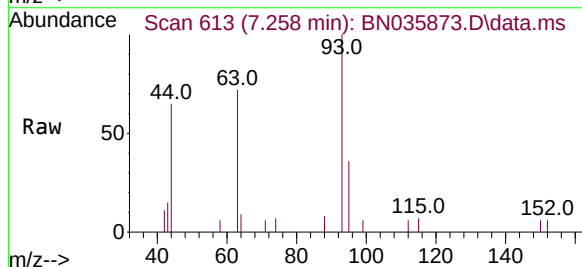
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

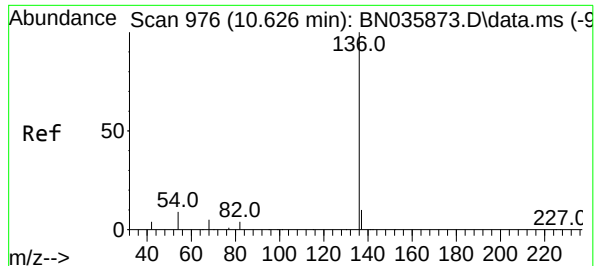
Tgt Ion: 99 Resp: 1488
Ion Ratio Lower Upper
99 100
42 29.4 23.5 35.3
71 44.4 35.5 53.3



#6
bis(2-Chloroethyl)ether
Concen: 0.403 ng
RT: 7.258 min Scan# 613
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

Tgt Ion: 93 Resp: 1180
Ion Ratio Lower Upper
93 100
63 77.5 62.0 93.0
95 31.9 25.5 38.3

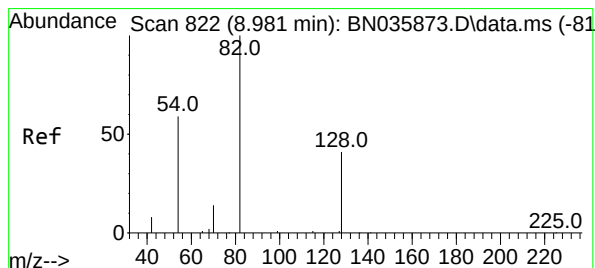
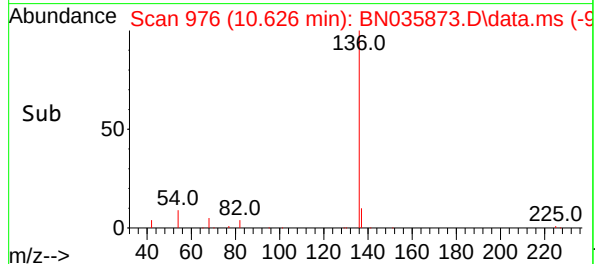
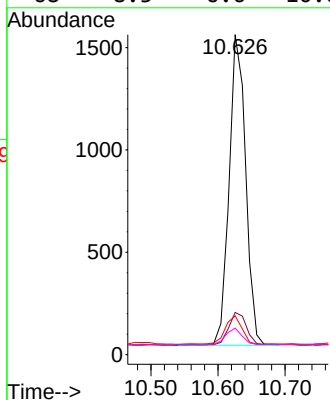
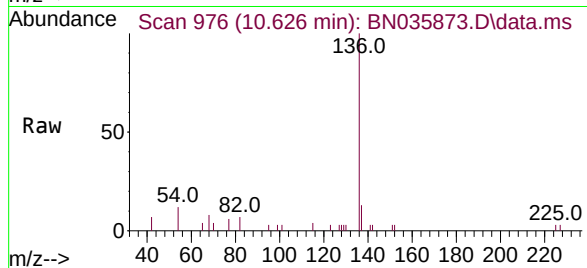




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

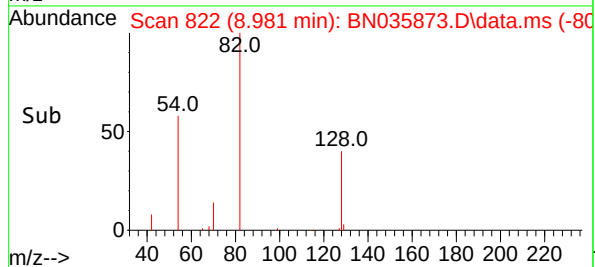
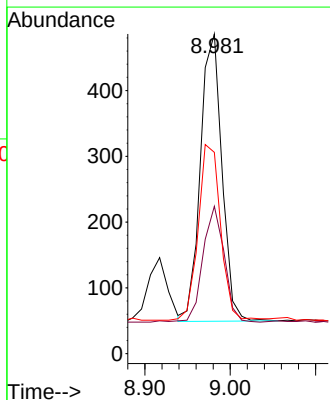
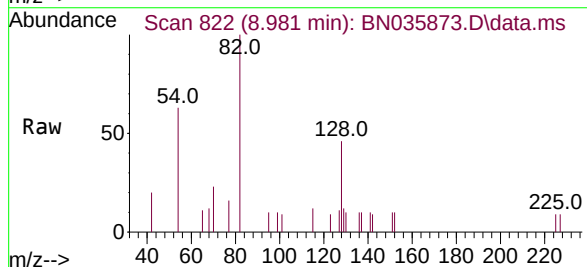
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

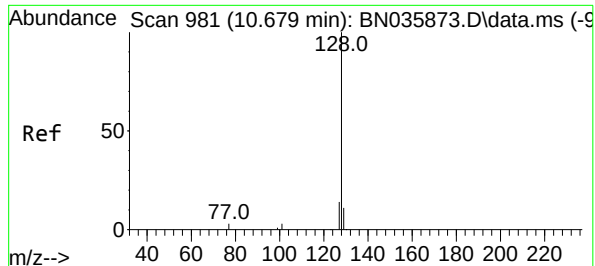
Tgt Ion:	136	Resp:	2582
Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.6	15.8
54	12.2	9.8	14.6
68	8.3	6.6	10.0



#8
Nitrobenzene-d5
Concen: 0.374 ng
RT: 8.981 min Scan# 822
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

Tgt Ion:	82	Resp:	764
Ion	Ratio	Lower	Upper
82	100		
128	46.1	36.9	55.3
54	63.0	50.4	75.6





#9
Naphthalene

Concen: 0.387 ng

RT: 10.679 min Scan# 981

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

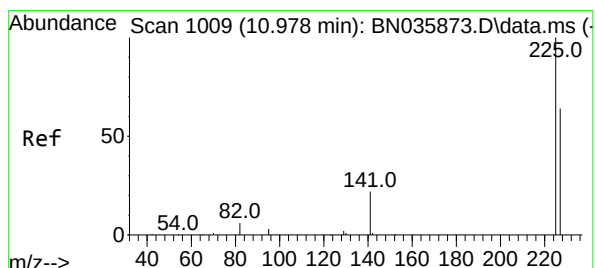
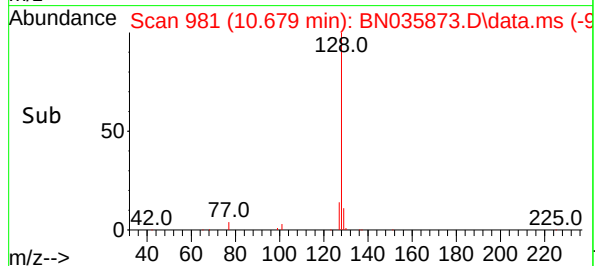
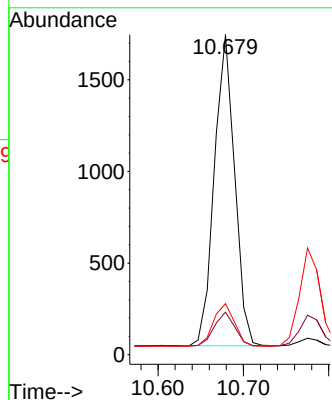
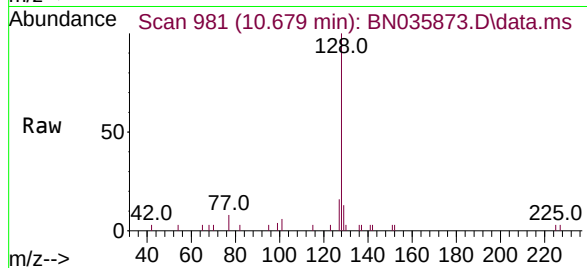
Tgt Ion:128 Resp: 2805

Ion Ratio Lower Upper

128 100

129 13.3 10.6 16.0

127 16.0 12.8 19.2



#10

Hexachlorobutadiene

Concen: 0.388 ng

RT: 10.978 min Scan# 1009

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

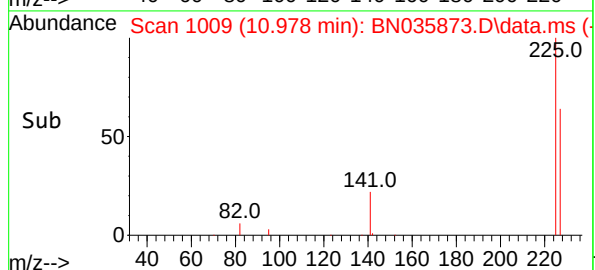
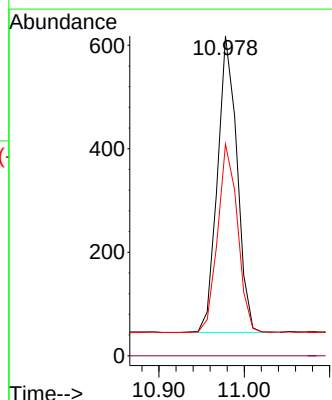
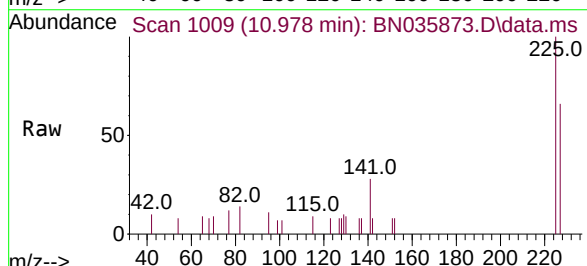
Tgt Ion:225 Resp: 912

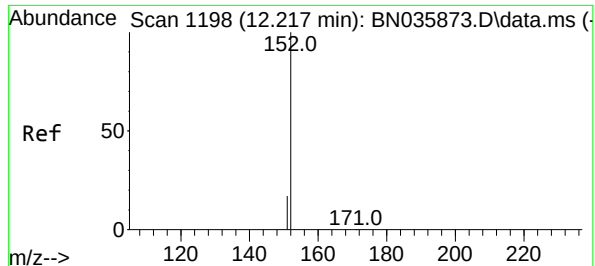
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.4 51.5 77.3

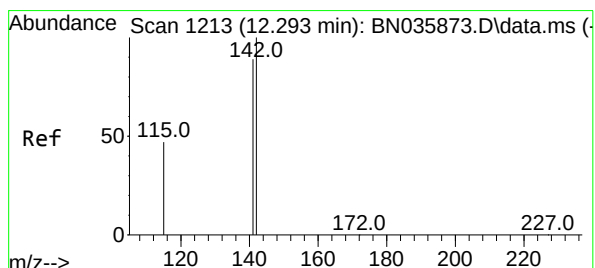
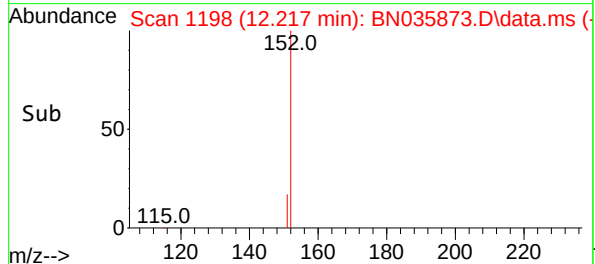
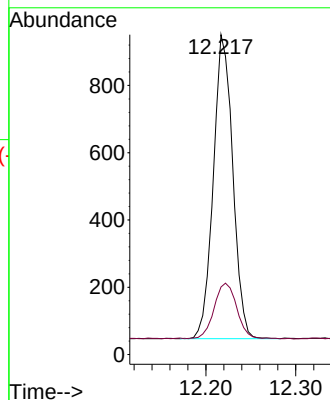
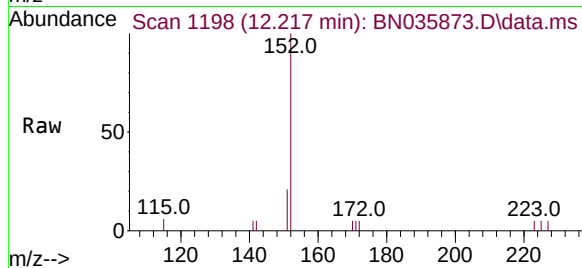




#11
2-Methylnaphthalene-d10
Concen: 0.393 ng
RT: 12.217 min Scan# 1198
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

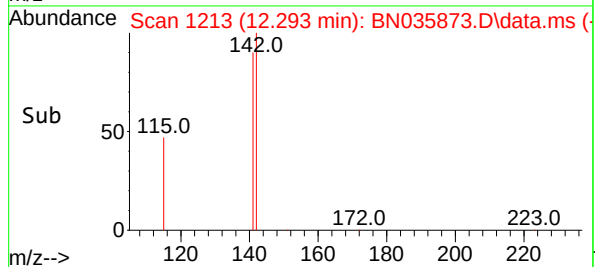
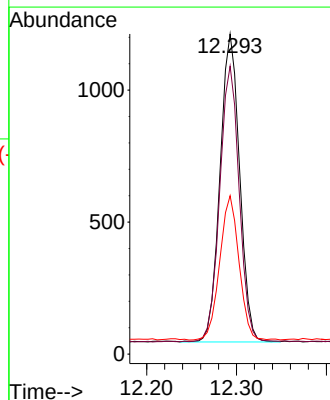
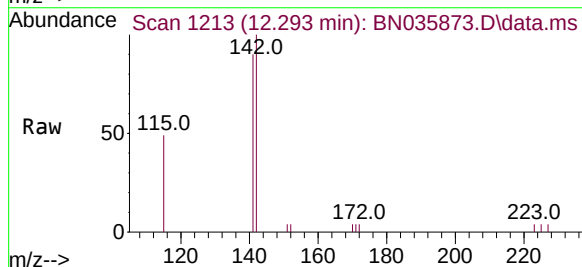
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

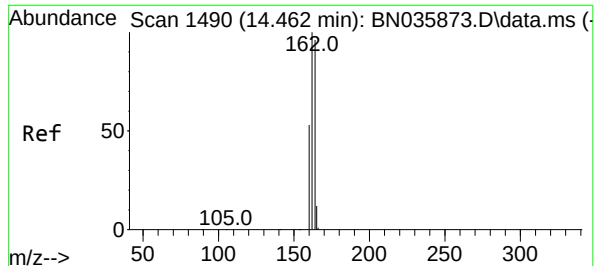
Tgt Ion:152 Resp: 1360
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.394 ng
RT: 12.293 min Scan# 1213
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

Tgt Ion:142 Resp: 1768
Ion Ratio Lower Upper
142 100
141 89.9 71.9 107.9
115 49.5 39.6 59.4

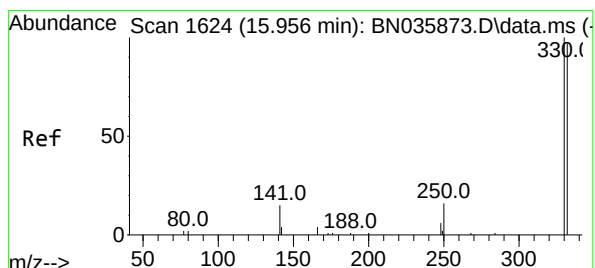
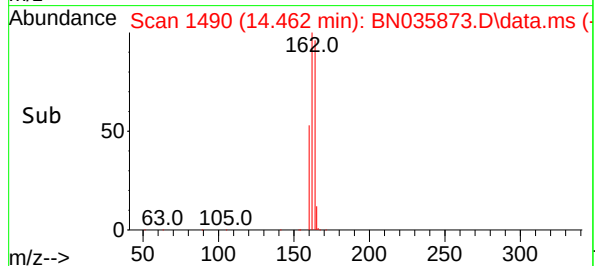
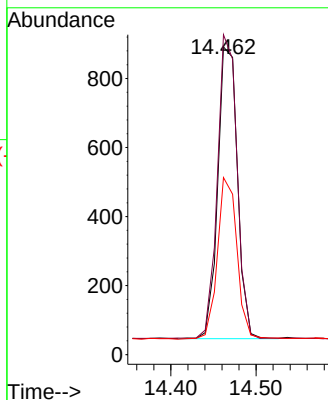
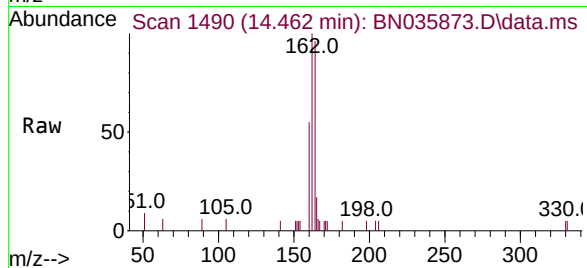




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.462 min Scan# 1490
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

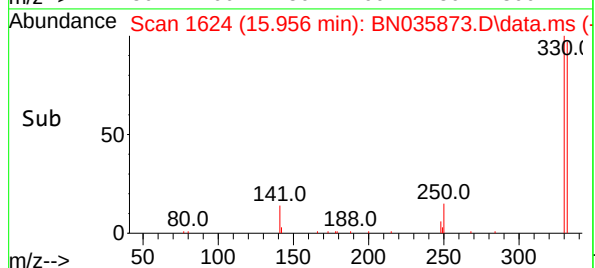
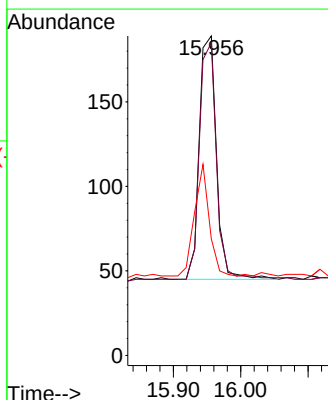
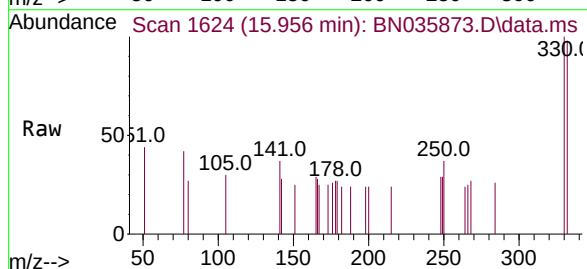
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

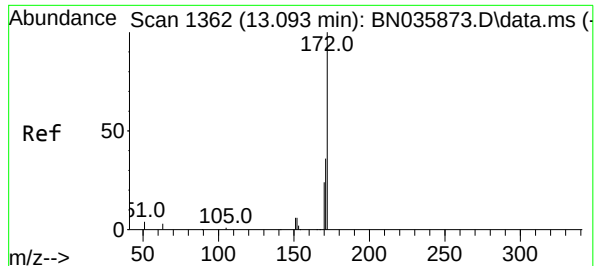
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.9	83.1	124.7
160	57.5	46.0	69.0



#14
2,4,6-Tribromophenol
Concen: 0.393 ng
RT: 15.956 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.2	115.8
141	39.5	31.6	47.4





#15

2-Fluorobiphenyl

Concen: 0.389 ng

RT: 13.093 min Scan# 1362

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

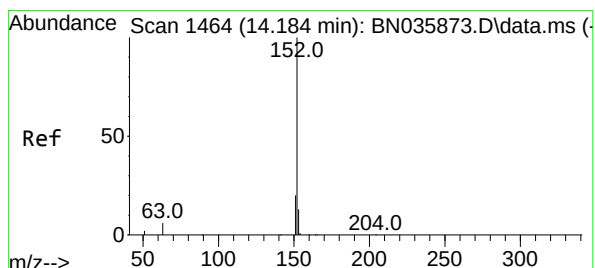
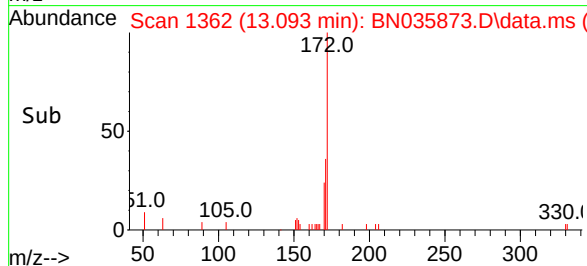
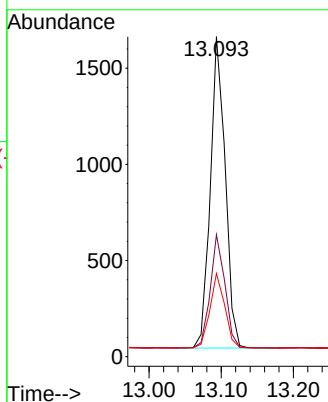
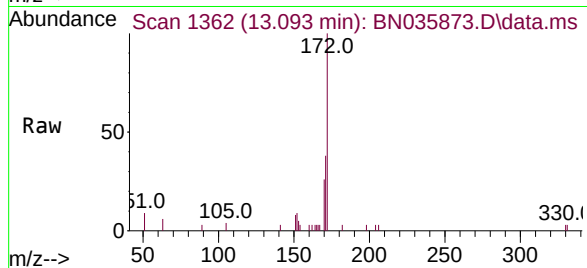
Tgt Ion:172 Resp: 2320

Ion Ratio Lower Upper

172 100

171 38.1 30.5 45.7

170 26.0 20.8 31.2



#16

Acenaphthylene

Concen: 0.386 ng

RT: 14.184 min Scan# 1464

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

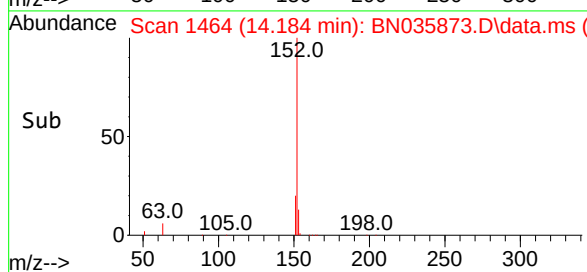
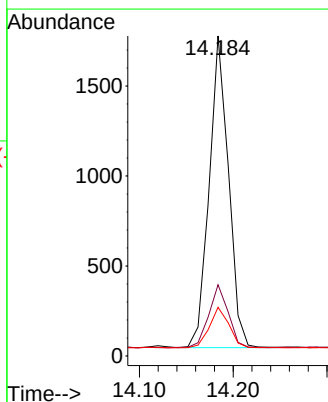
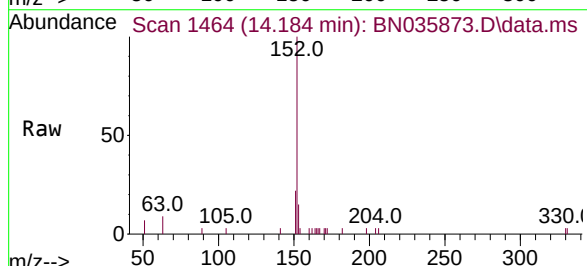
Tgt Ion:152 Resp: 2470

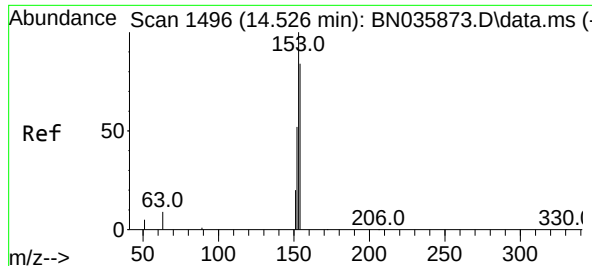
Ion Ratio Lower Upper

152 100

151 20.4 16.3 24.5

153 13.2 10.6 15.8

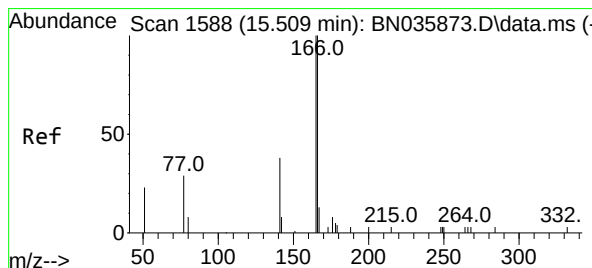
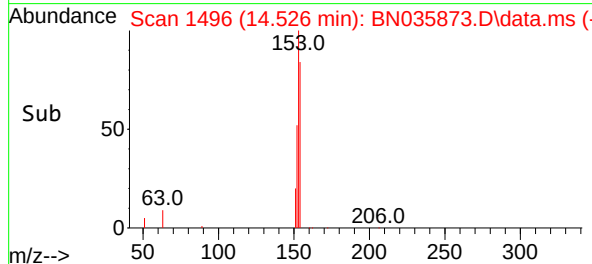
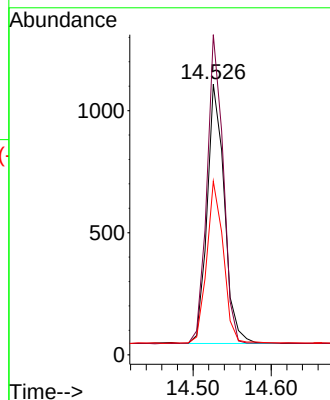
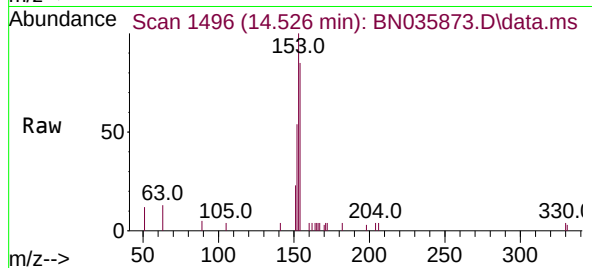




#17
Acenaphthene
Concen: 0.388 ng
RT: 14.526 min Scan# 1496
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

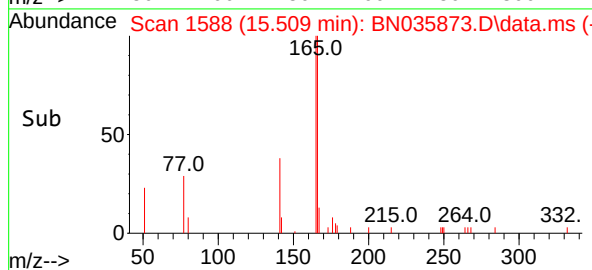
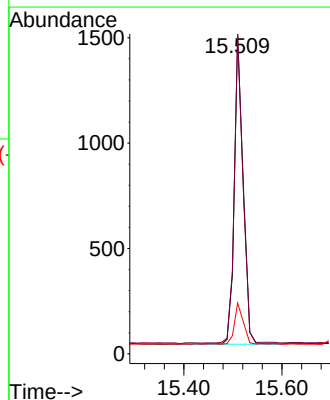
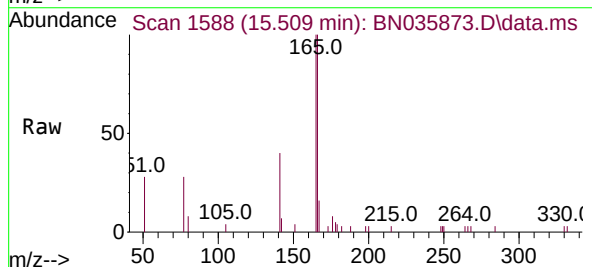
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

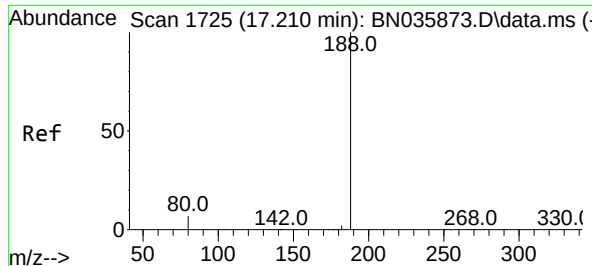
Tgt Ion	154	Resp	1627
Ion Ratio	Lower	Upper	
154	100		
153	113.1	90.5	135.7
152	60.8	48.6	73.0



#18
Fluorene
Concen: 0.385 ng
RT: 15.509 min Scan# 1588
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

Tgt Ion	166	Resp	1775
Ion Ratio	Lower	Upper	
166	100		
165	100.7	80.6	120.8
167	14.2	11.4	17.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.210 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

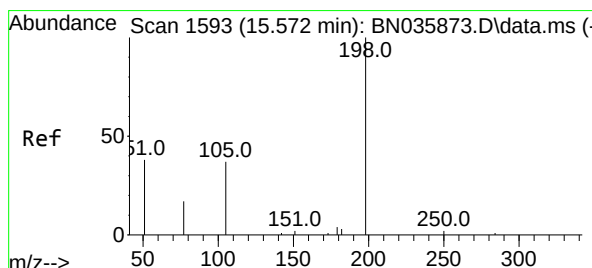
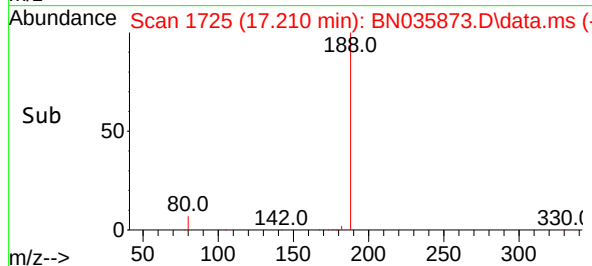
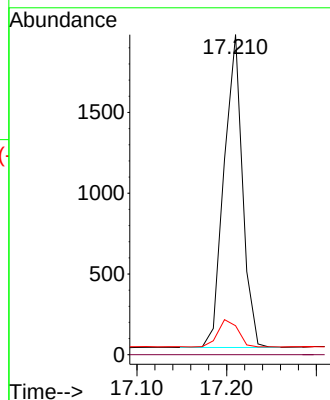
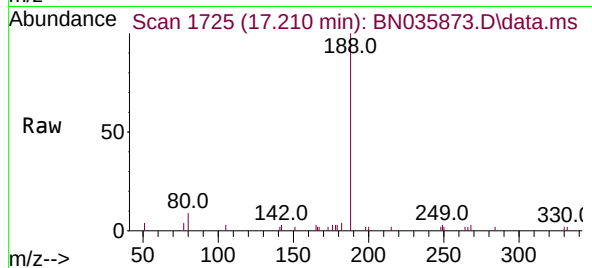
Tgt Ion:188 Resp: 2769

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.1 7.3 10.9



#20

4,6-Dinitro-2-methylphenol

Concen: 0.385 ng

RT: 15.572 min Scan# 1593

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

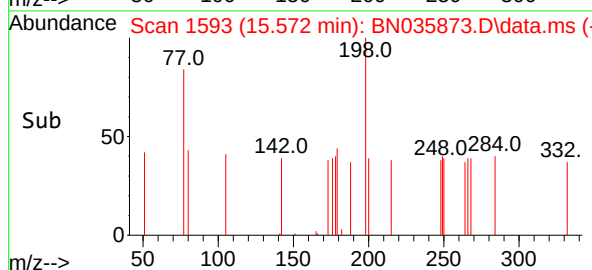
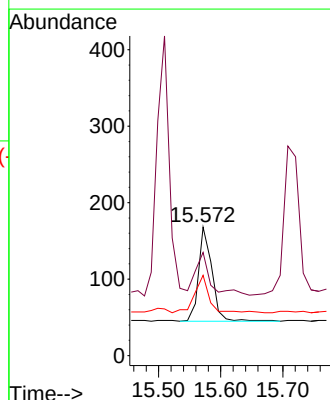
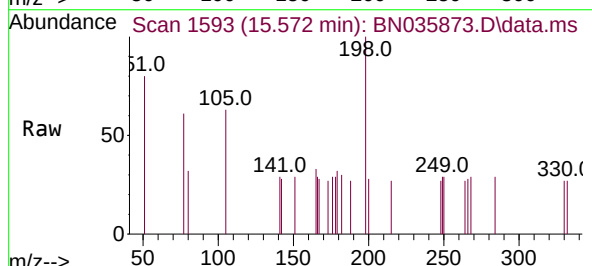
Tgt Ion:198 Resp: 185

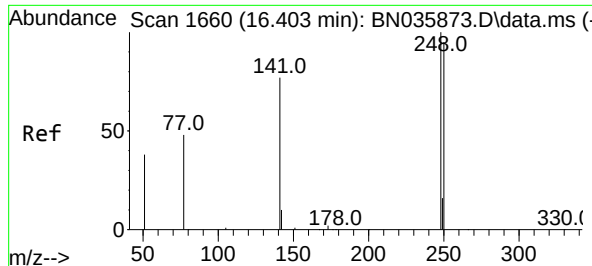
Ion Ratio Lower Upper

198 100

51 80.4 64.3 96.5

105 62.5 50.0 75.0

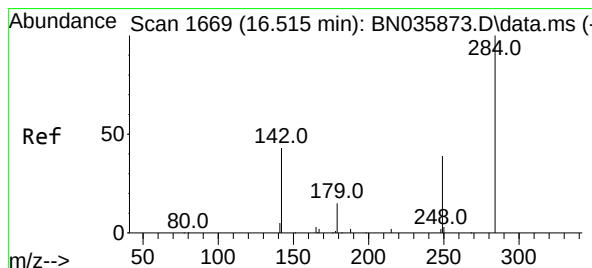
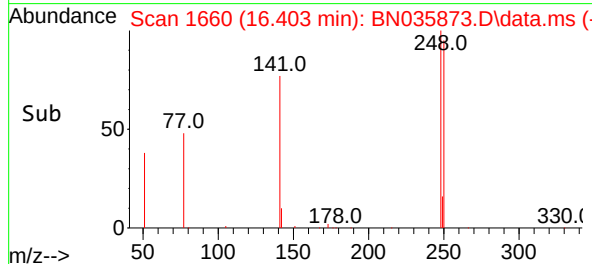
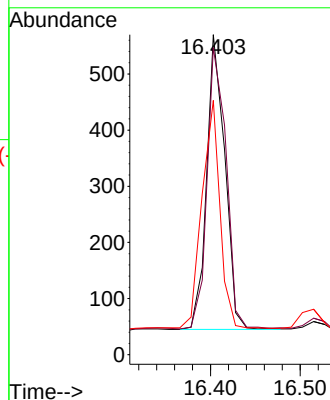
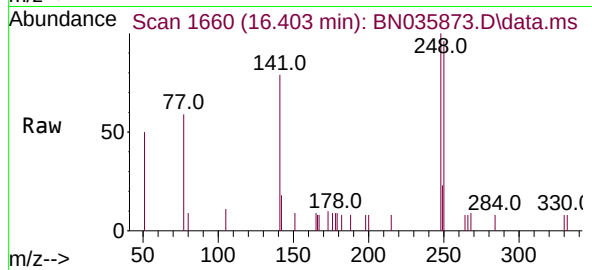




#21
4-Bromophenyl-phenylether
Concen: 0.391 ng
RT: 16.403 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

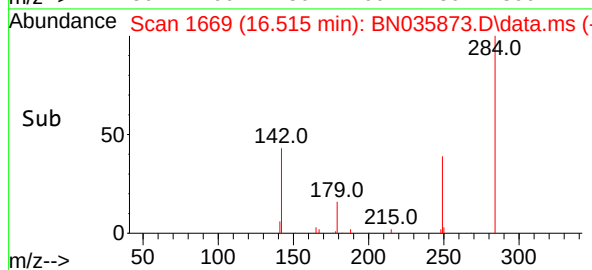
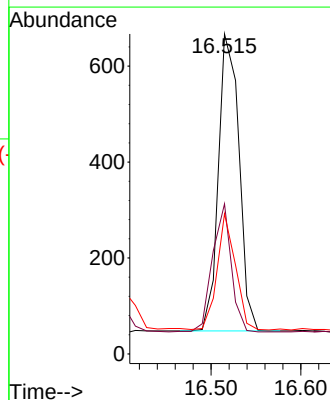
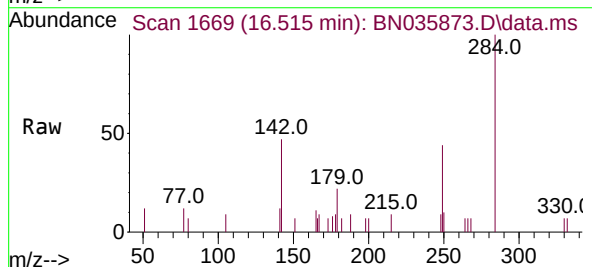
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

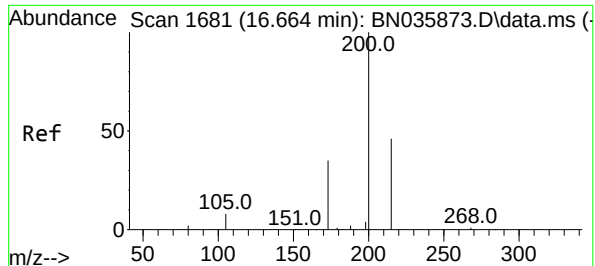
Tgt Ion:	248	Resp:	743
Ion Ratio	Lower	Upper	
248	100		
250	96.0	76.8	115.2
141	79.5	63.6	95.4



#22
Hexachlorobenzene
Concen: 0.381 ng
RT: 16.515 min Scan# 1669
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

Tgt Ion:	284	Resp:	986
Ion Ratio	Lower	Upper	
284	100		
142	39.2	31.4	47.0
249	34.8	27.8	41.8

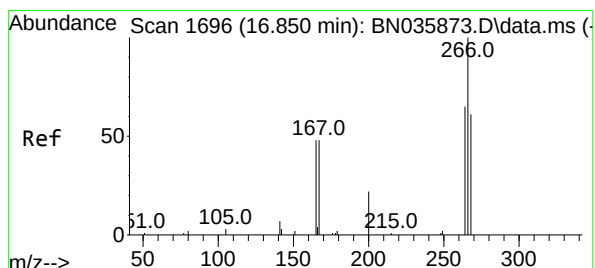
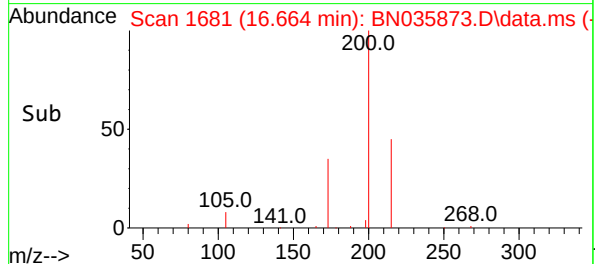
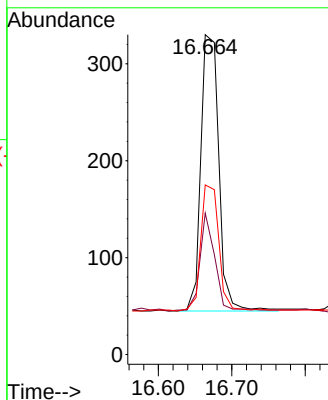
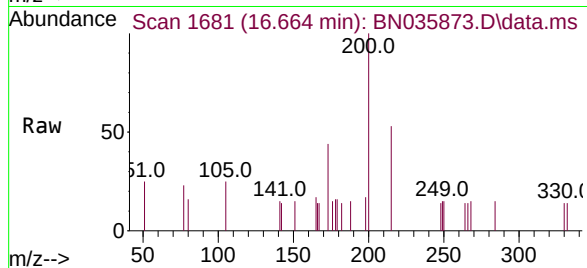




#23
Atrazine
Concen: 0.382 ng
RT: 16.664 min Scan# 1681
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

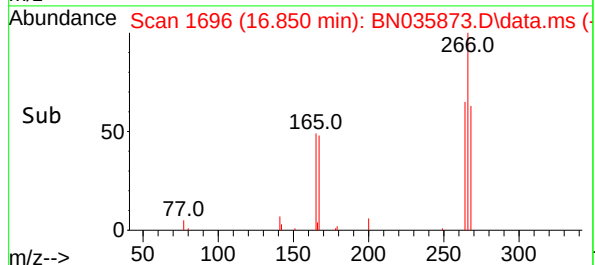
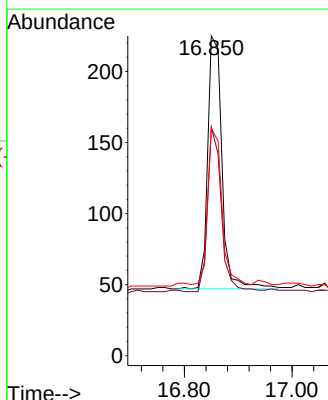
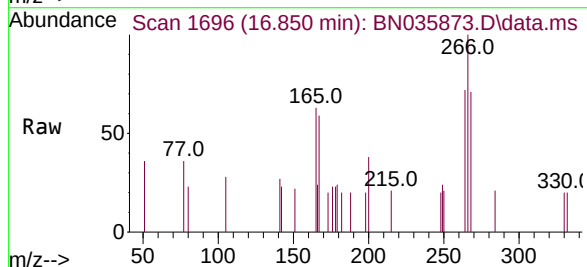
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

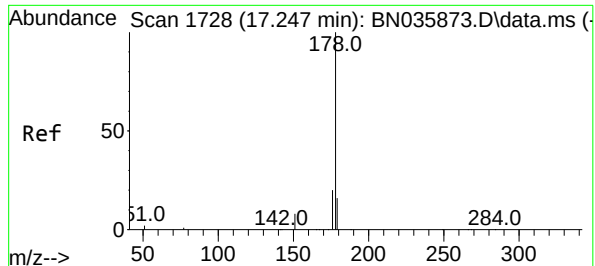
Tgt Ion	Ratio	Lower	Upper
200	100		
173	44.2	35.4	53.0
215	53.0	42.4	63.6



#24
Pentachlorophenol
Concen: 0.357 ng
RT: 16.850 min Scan# 1696
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.4	49.9	74.9
268	62.7	50.2	75.2





#25

Phenanthrene

Concen: 0.391 ng

RT: 17.247 min Scan# 1728

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

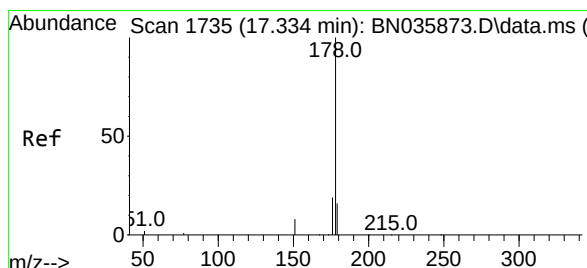
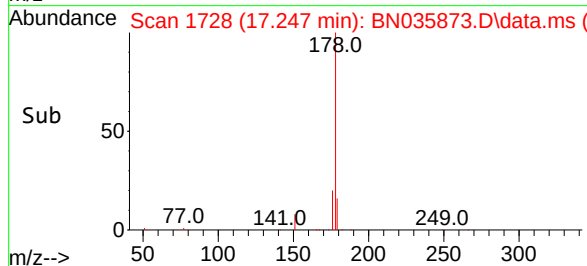
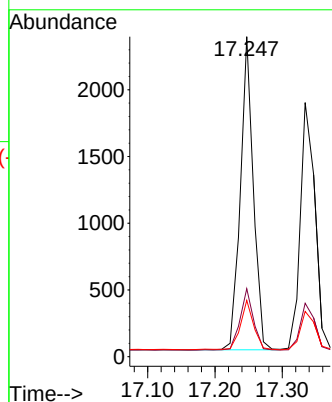
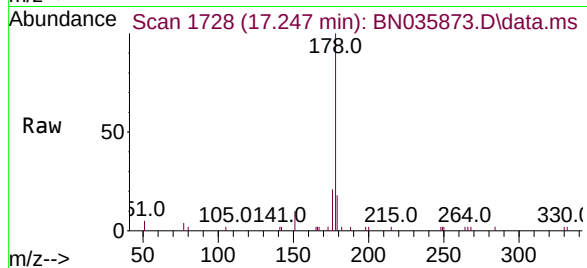
Tgt Ion:178 Resp: 3161

Ion Ratio Lower Upper

178 100

176 19.9 15.9 23.9

179 16.1 12.9 19.3



#26

Anthracene

Concen: 0.380 ng

RT: 17.334 min Scan# 1735

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

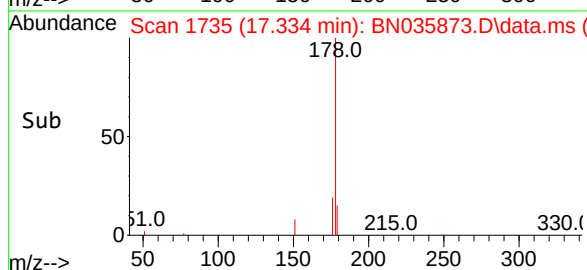
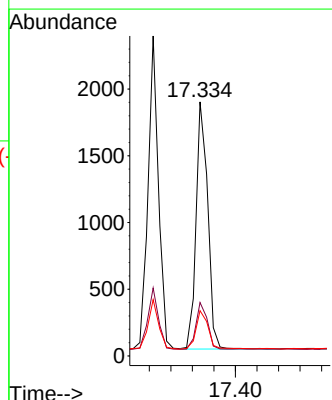
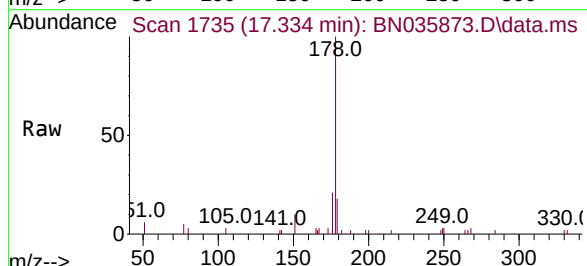
Tgt Ion:178 Resp: 2792

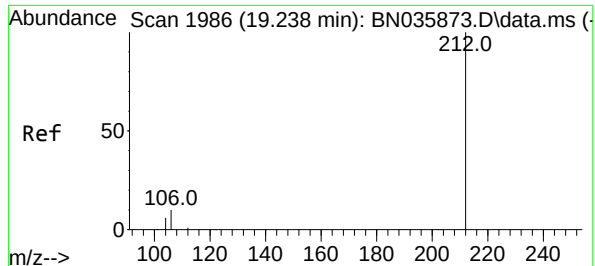
Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.6

179 16.3 13.0 19.6





#27

Fluoranthene-d10

Concen: 0.394 ng

RT: 19.238 min Scan# 1986

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

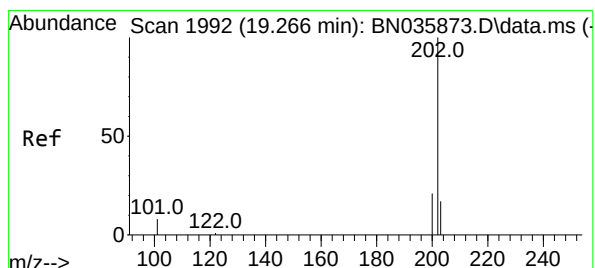
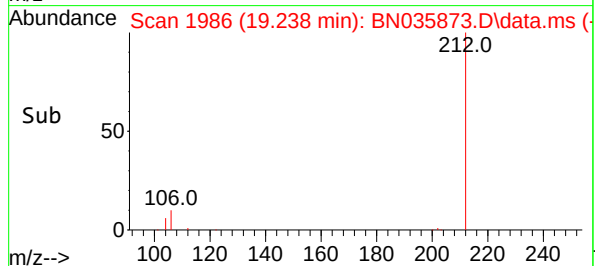
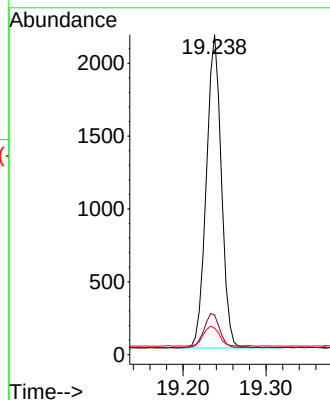
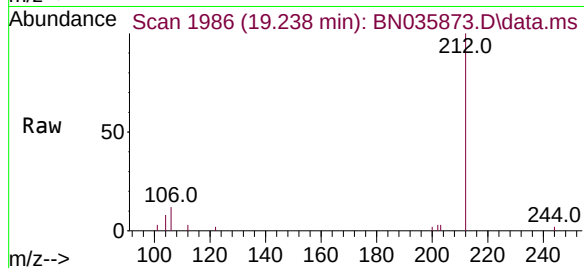
Tgt Ion:212 Resp: 2707

Ion Ratio Lower Upper

212 100

106 11.3 9.0 13.6

104 6.8 5.4 8.2



#28

Fluoranthene

Concen: 0.391 ng

RT: 19.266 min Scan# 1992

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

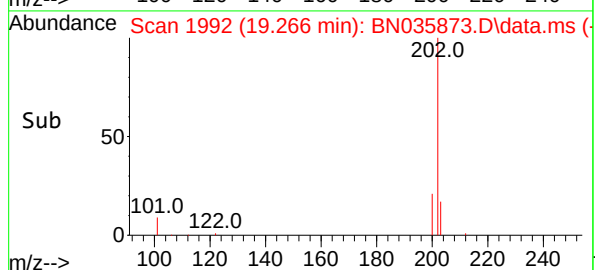
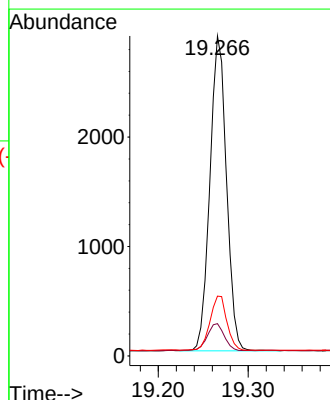
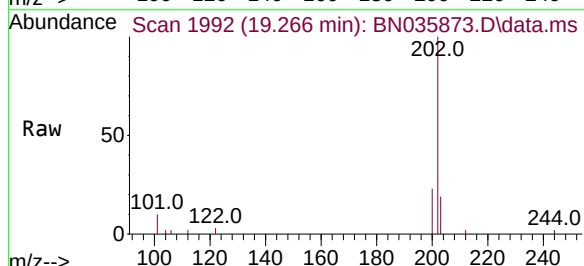
Tgt Ion:202 Resp: 3684

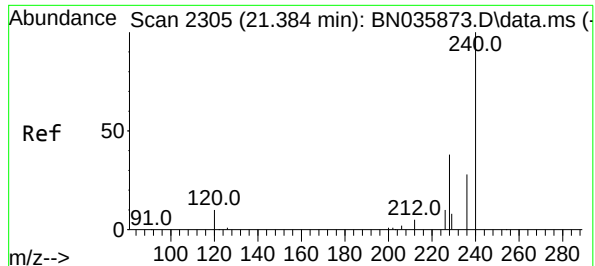
Ion Ratio Lower Upper

202 100

101 9.0 7.2 10.8

203 17.4 13.9 20.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.384 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

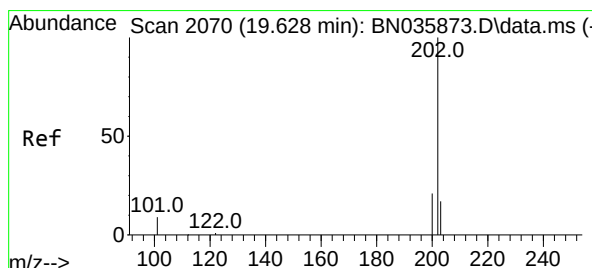
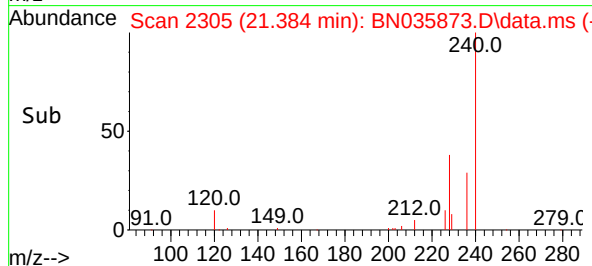
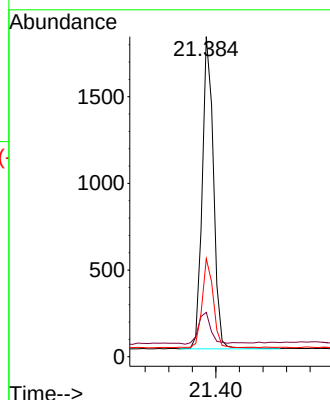
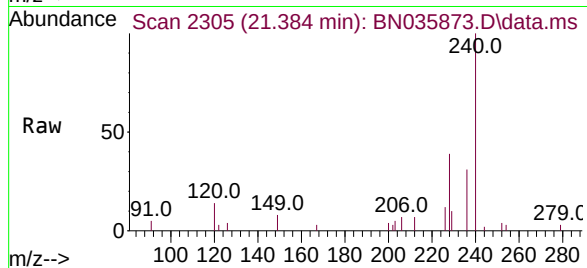
Tgt Ion:240 Resp: 2381

Ion Ratio Lower Upper

240 100

120 13.9 11.1 16.7

236 30.7 24.6 36.8



#30

Pyrene

Concen: 0.387 ng

RT: 19.628 min Scan# 2070

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

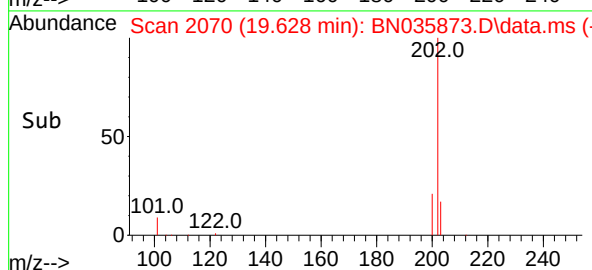
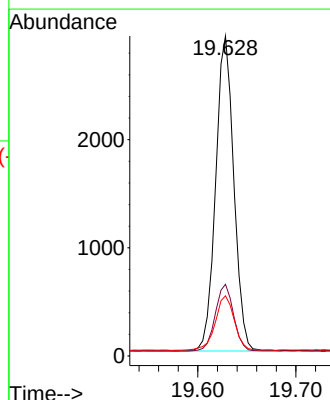
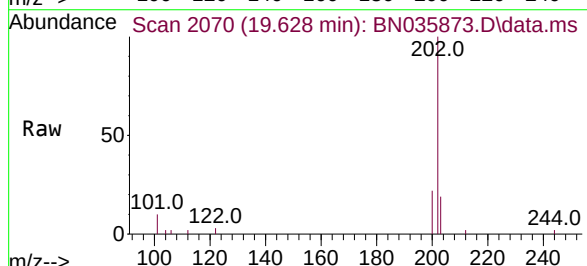
Tgt Ion:202 Resp: 3740

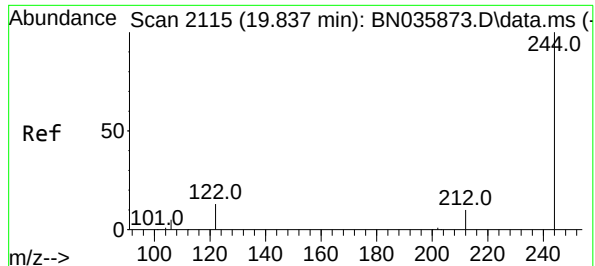
Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.6

203 18.3 14.6 22.0

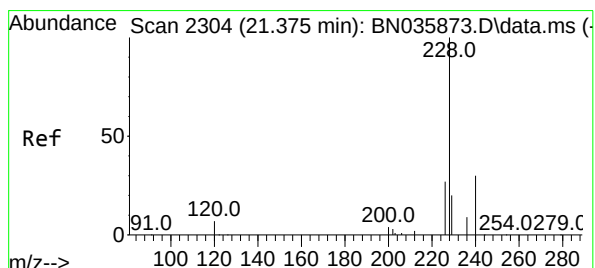
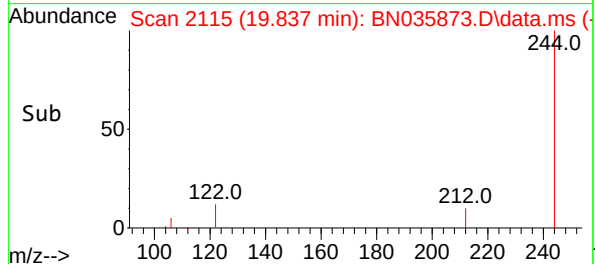
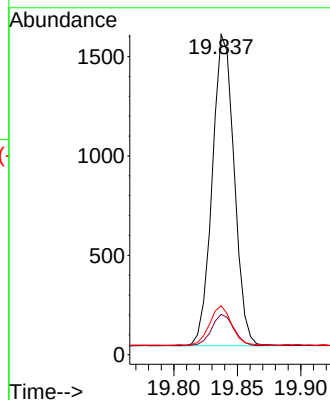
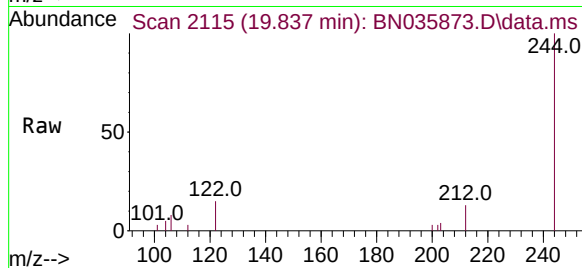




#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.837 min Scan# 2115
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

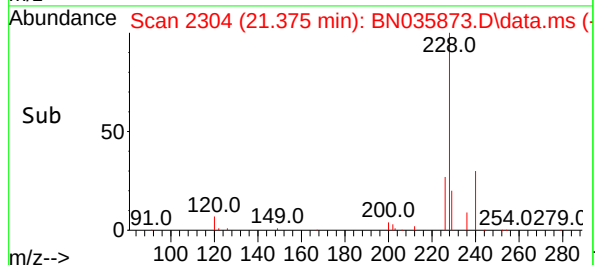
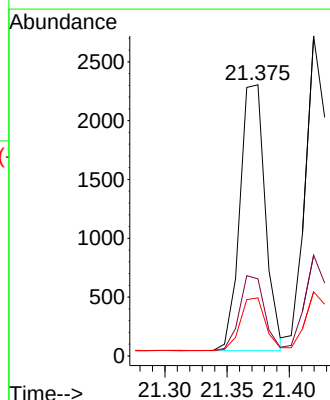
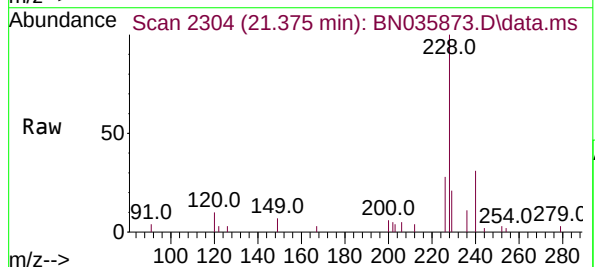
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

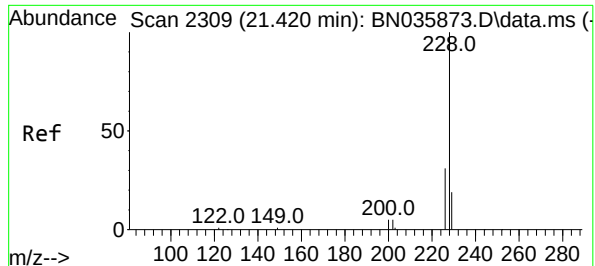
Tgt Ion:244	Resp:	1882
Ion Ratio	Lower	Upper
244	100	
212	12.6	10.1 15.1
122	15.3	12.2 18.4



#32
Benzo(a)anthracene
Concen: 0.381 ng
RT: 21.375 min Scan# 2304
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

Tgt Ion:228	Resp:	3201
Ion Ratio	Lower	Upper
228	100	
226	28.4	22.7 34.1
229	21.4	17.1 25.7





#33

Chrysene

Concen: 0.391 ng

RT: 21.420 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

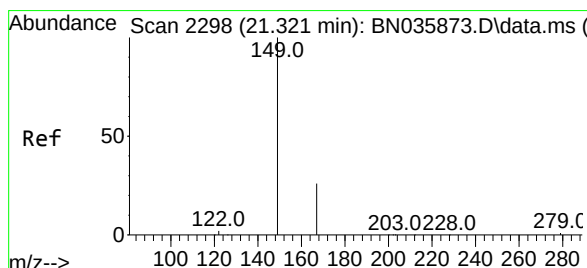
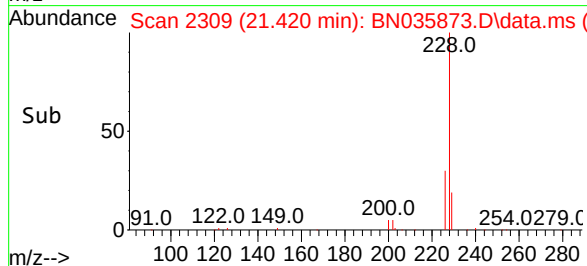
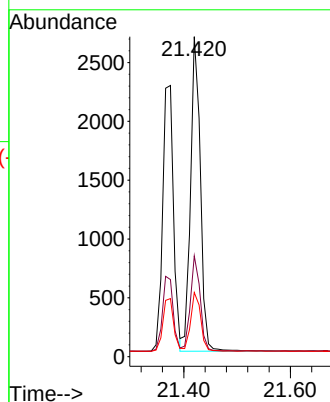
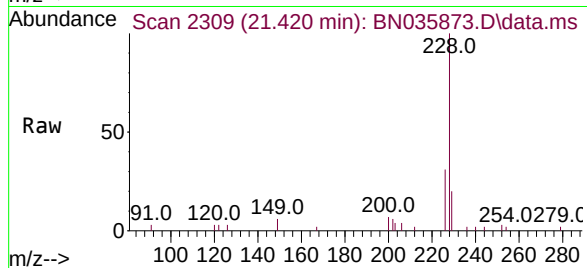
Tgt Ion:228 Resp: 3430

Ion Ratio Lower Upper

228 100

226 31.5 25.2 37.8

229 20.0 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.406 ng

RT: 21.321 min Scan# 2298

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

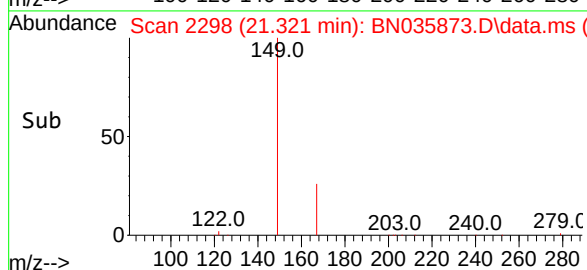
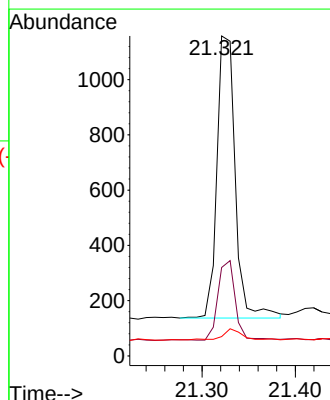
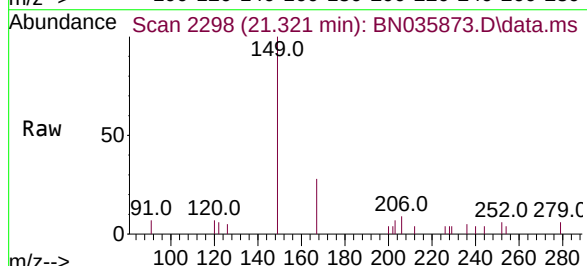
Tgt Ion:149 Resp: 1386

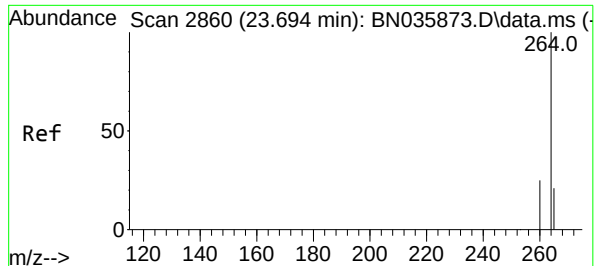
Ion Ratio Lower Upper

149 100

167 26.7 21.4 32.0

279 3.8 3.0 4.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.694 min Scan# 2860

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

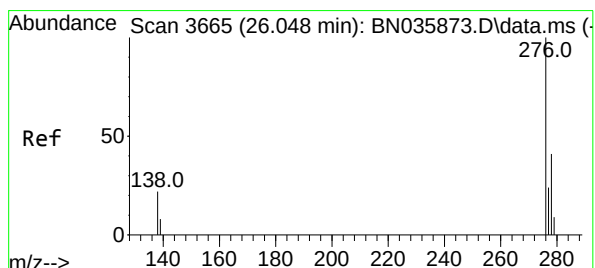
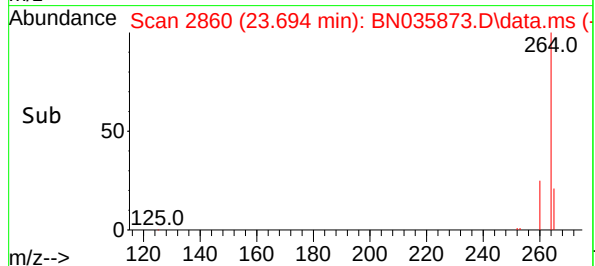
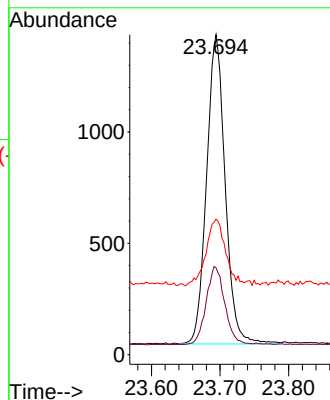
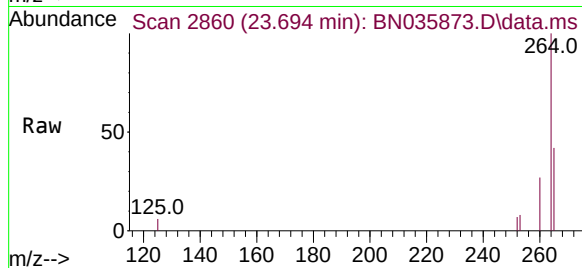
Tgt Ion:264 Resp: 2623

Ion Ratio Lower Upper

264 100

260 27.1 21.7 32.5

265 42.4 33.9 50.9



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.359 ng

RT: 26.048 min Scan# 3665

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

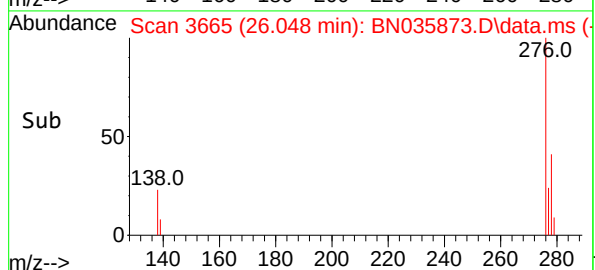
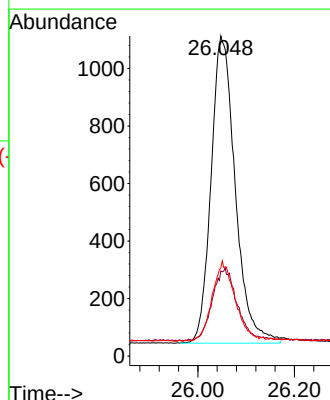
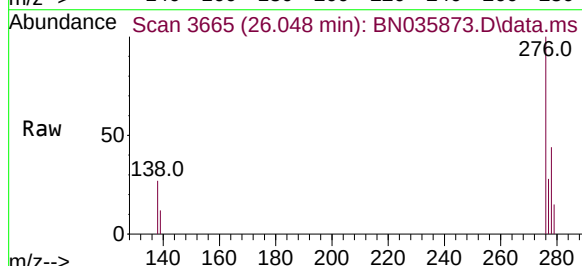
Tgt Ion:276 Resp: 3709

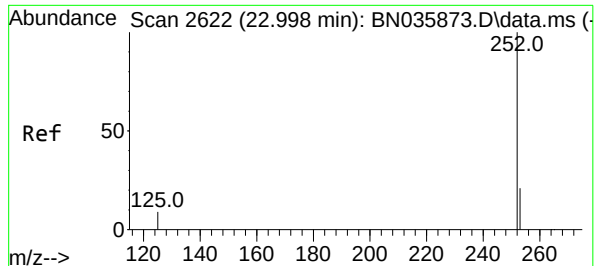
Ion Ratio Lower Upper

276 100

138 23.6 18.9 28.3

277 24.4 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.377 ng

RT: 22.998 min Scan# 2622

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

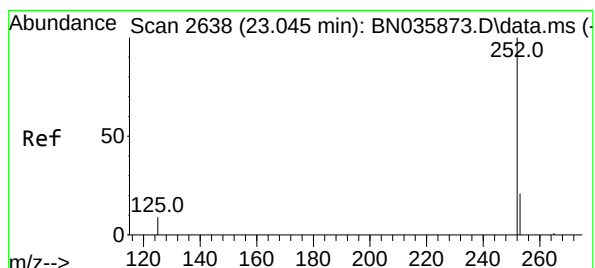
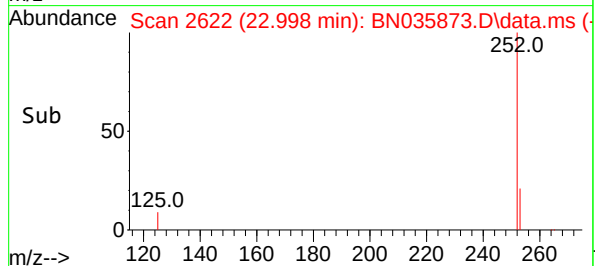
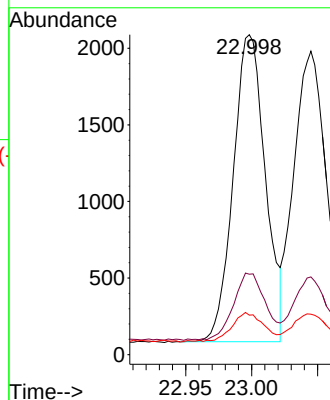
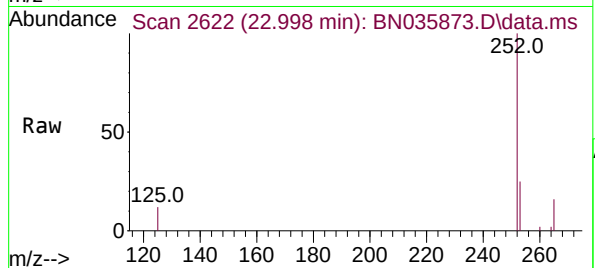
Tgt Ion:252 Resp: 3395

Ion Ratio Lower Upper

252 100

253 25.1 20.1 30.1

125 12.4 9.9 14.9



#38

Benzo(k)fluoranthene

Concen: 0.368 ng

RT: 23.045 min Scan# 2638

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

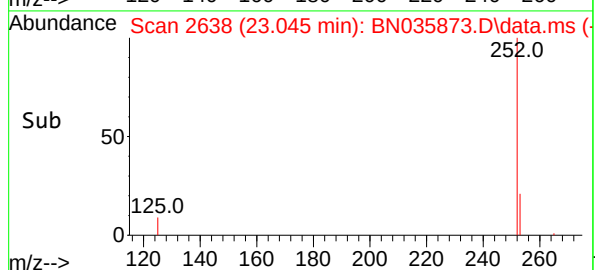
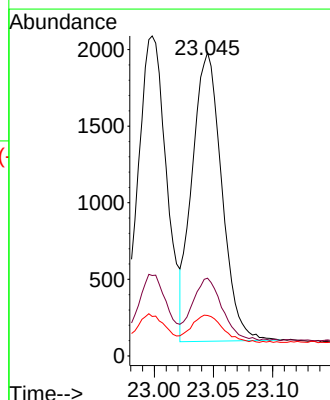
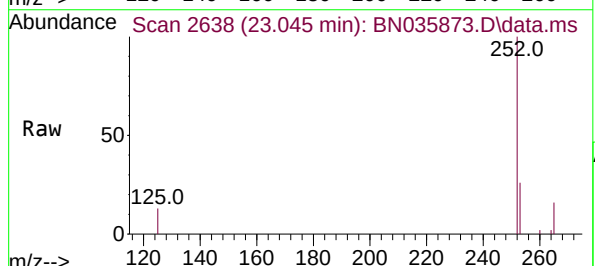
Tgt Ion:252 Resp: 3282

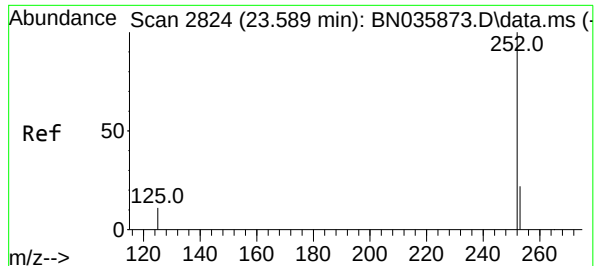
Ion Ratio Lower Upper

252 100

253 25.6 20.5 30.7

125 13.3 10.6 16.0





#39

Benzo(a)pyrene

Concen: 0.365 ng

RT: 23.589 min Scan# 2824

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

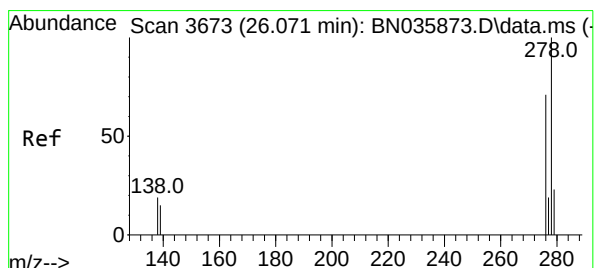
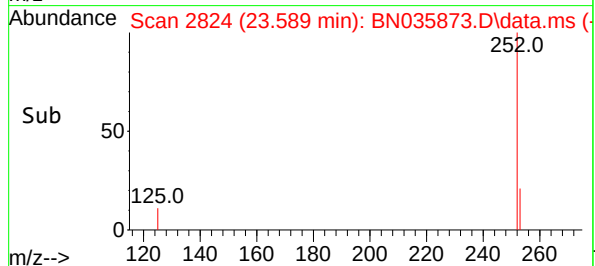
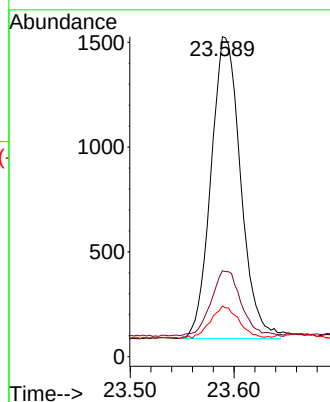
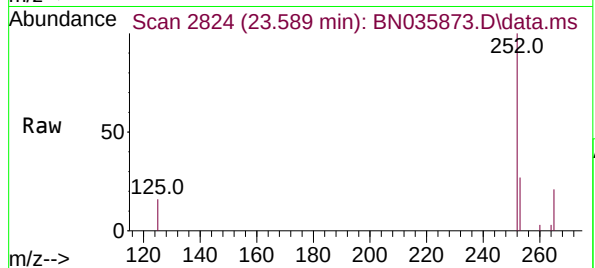
Tgt Ion:252 Resp: 2848

Ion Ratio Lower Upper

252 100

253 26.9 21.5 32.3

125 15.8 12.6 19.0



#40

Dibenzo(a,h)anthracene

Concen: 0.353 ng

RT: 26.071 min Scan# 3673

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

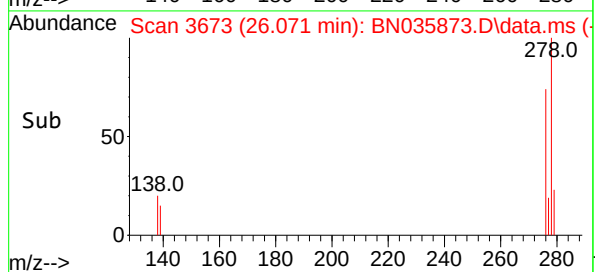
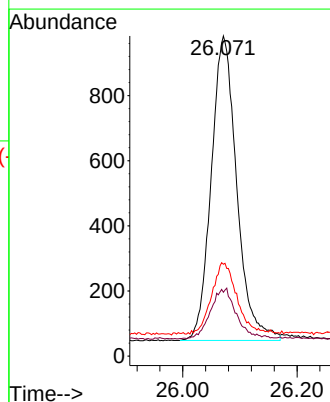
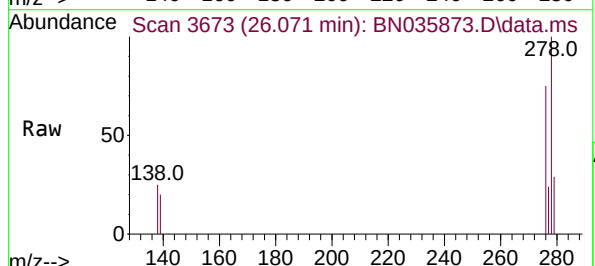
Tgt Ion:278 Resp: 2902

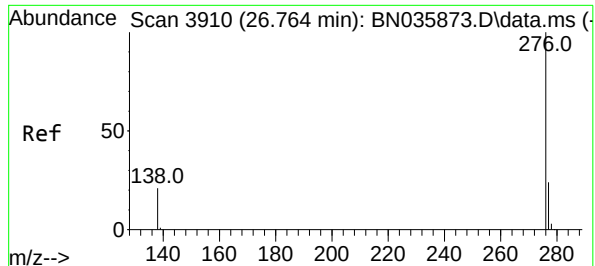
Ion Ratio Lower Upper

278 100

139 19.9 15.9 23.9

279 28.7 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 0.355 ng

RT: 26.764 min Scan# 3910

Delta R.T. 0.000 min

Lab File: BN035873.D

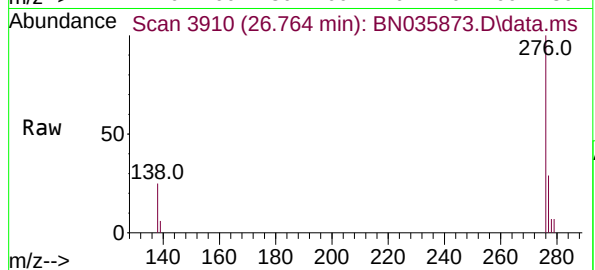
Acq: 02 Jan 2025 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



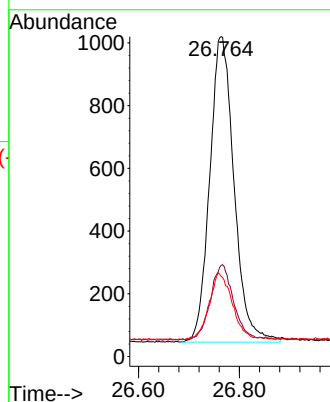
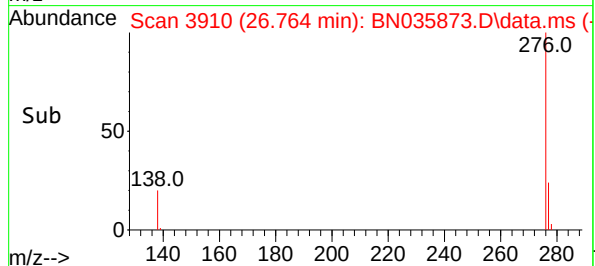
Tgt Ion:276 Resp: 3265

Ion Ratio Lower Upper

276 100

277 28.5 22.8 34.2

138 25.1 20.1 30.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
 Data File : BN035874.D
 Acq On : 02 Jan 2025 13:16
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Jan 02 15:50:14 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

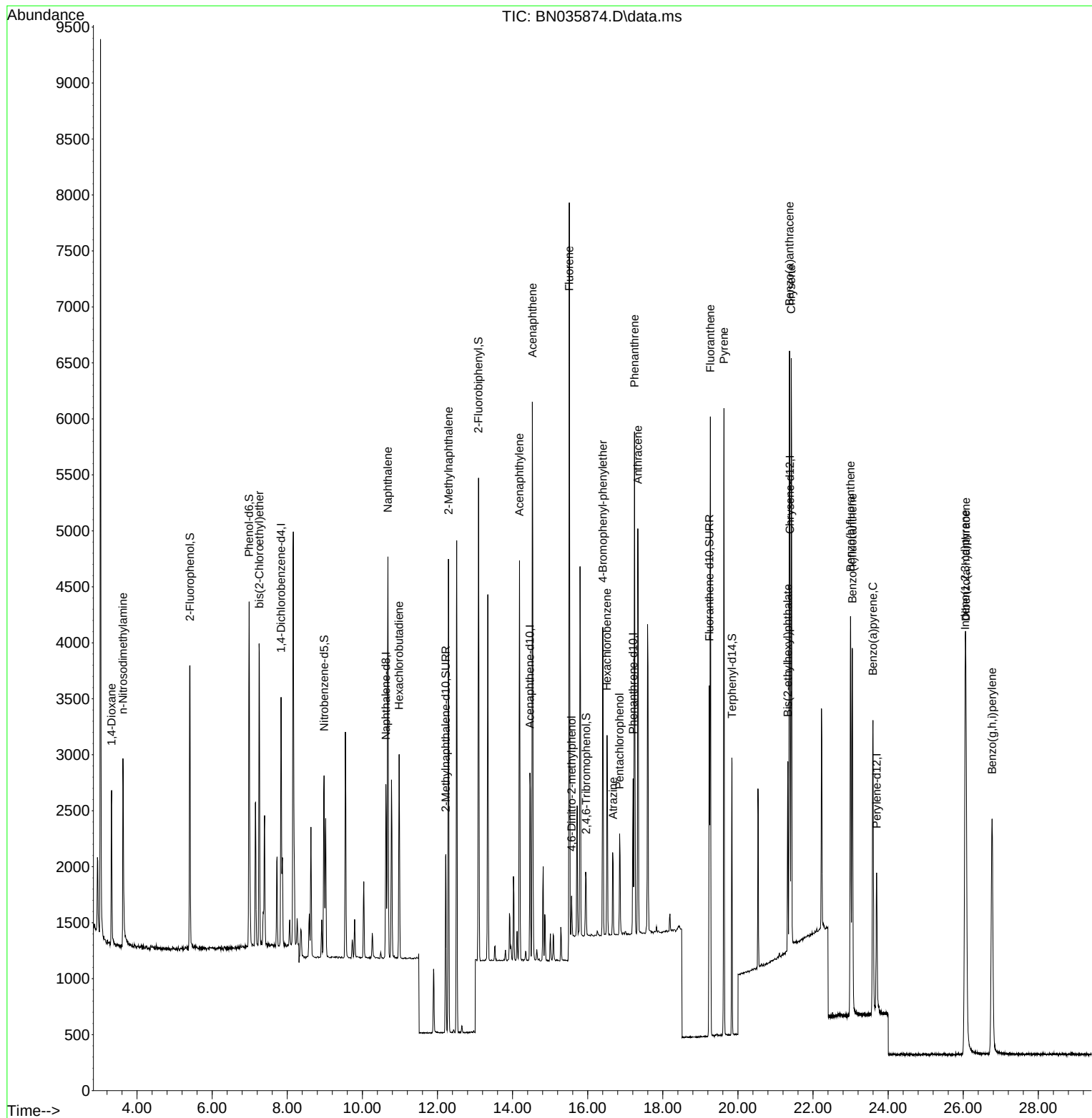
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.835	152	1005	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	2000	0.400	ng	0.00
13) Acenaphthene-d10	14.462	164	985	0.400	ng	0.00
19) Phenanthrene-d10	17.210	188	1825	0.400	ng	0.00
29) Chrysene-d12	21.384	240	1508	0.400	ng	# 0.00
35) Perylene-d12	23.694	264	1682	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.409	112	1925	0.781	ng	0.00
5) Phenol-d6	6.983	99	2406	0.786	ng	0.00
8) Nitrobenzene-d5	8.981	82	1207	0.762	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	2075	0.775	ng	0.00
14) 2,4,6-Tribromophenol	15.956	330	373	0.789	ng	0.00
15) 2-Fluorobiphenyl	13.093	172	3477	0.804	ng	0.00
27) Fluoranthene-d10	19.238	212	3502	0.773	ng	0.00
31) Terphenyl-d14	19.842	244	2344	0.780	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.322	88	779	0.780	ng	Qvalue 99
3) n-Nitrosodimethylamine	3.625	42	1387	0.796	ng	98
6) bis(2-Chloroethyl)ether	7.258	93	1835	0.787	ng	99
9) Naphthalene	10.679	128	4384	0.781	ng	98
10) Hexachlorobutadiene	10.978	225	1454	0.798	ng	# 99
12) 2-Methylnaphthalene	12.293	142	2720	0.783	ng	99
16) Acenaphthylene	14.184	152	3623	0.781	ng	99
17) Acenaphthene	14.526	154	2427	0.798	ng	97
18) Fluorene	15.509	166	2558	0.764	ng	99
20) 4,6-Dinitro-2-methylph...	15.571	198	251	0.792	ng	85
21) 4-Bromophenyl-phenylether	16.403	248	973	0.778	ng	97
22) Hexachlorobenzene	16.515	284	1320	0.774	ng	99
23) Atrazine	16.676	200	624	0.743	ng	# 87
24) Pentachlorophenol	16.850	266	444	0.735	ng	97
25) Phenanthrene	17.247	178	4177	0.784	ng	99
26) Anthracene	17.334	178	3772	0.778	ng	98
28) Fluoranthene	19.266	202	4790	0.772	ng	100
30) Pyrene	19.628	202	4863	0.794	ng	100
32) Benzo(a)anthracene	21.375	228	4245	0.799	ng	99
33) Chrysene	21.419	228	4376	0.787	ng	99
34) Bis(2-ethylhexyl)phtha...	21.330	149	1633	0.755	ng	99
36) Indeno(1,2,3-cd)pyrene	26.050	276	5308	0.800	ng	99
37) Benzo(b)fluoranthene	22.998	252	4545	0.787	ng	99
38) Benzo(k)fluoranthene	23.045	252	4521	0.790	ng	97
39) Benzo(a)pyrene	23.595	252	3913	0.782	ng	96
40) Dibenzo(a,h)anthracene	26.071	278	4209	0.798	ng	98
41) Benzo(g,h,i)perylene	26.767	276	4732	0.802	ng	96

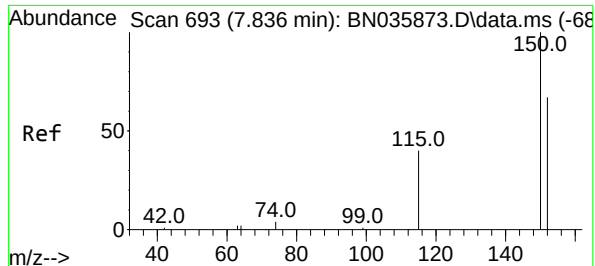
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
Data File : BN035874.D
Acq On : 02 Jan 2025 13:16
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Jan 02 15:50:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

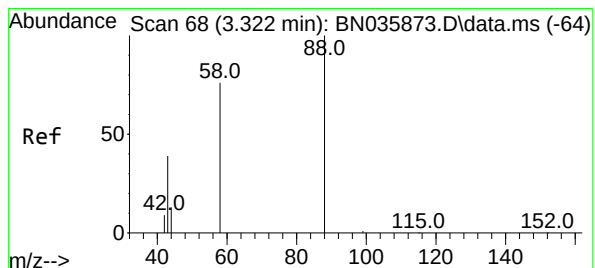
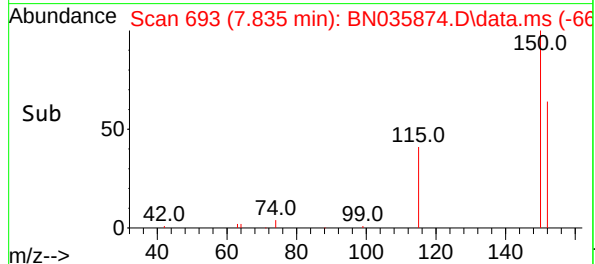
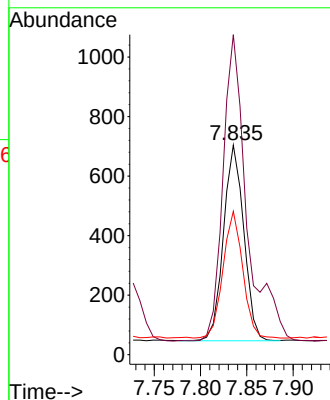
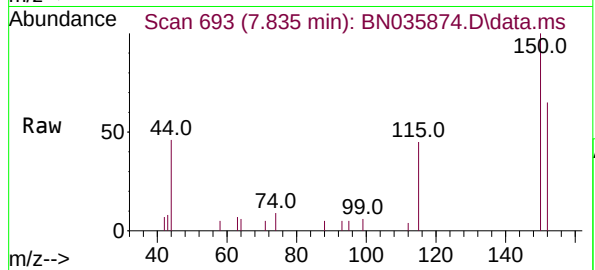




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.835 min Scan# 69
Delta R.T. -0.001 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

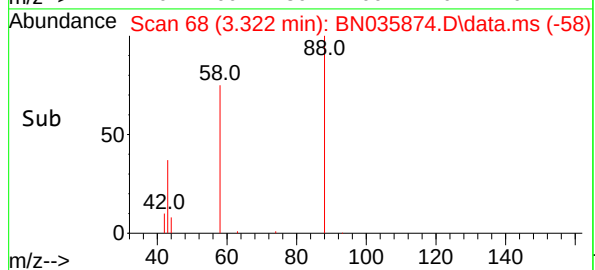
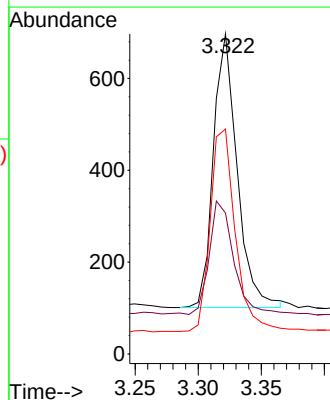
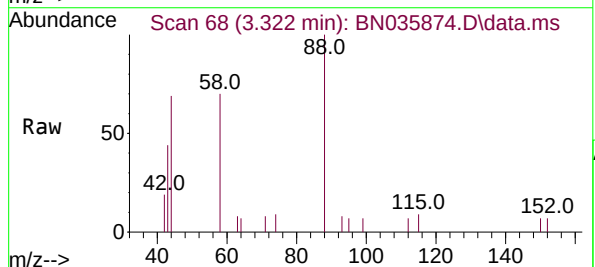
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

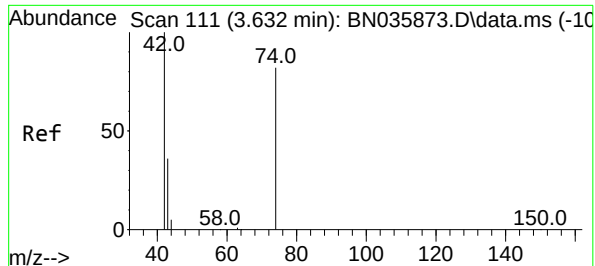
Tgt Ion:152 Resp: 1005
Ion Ratio Lower Upper
152 100
150 152.7 117.8 176.6
115 68.5 51.0 76.4



#2
1,4-Dioxane
Concen: 0.780 ng
RT: 3.322 min Scan# 68
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

Tgt Ion: 88 Resp: 779
Ion Ratio Lower Upper
88 100
43 41.3 32.7 49.1
58 78.2 63.0 94.4





#3

n-Nitrosodimethylamine

Concen: 0.796 ng

RT: 3.625 min Scan# 111

Delta R.T. -0.007 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

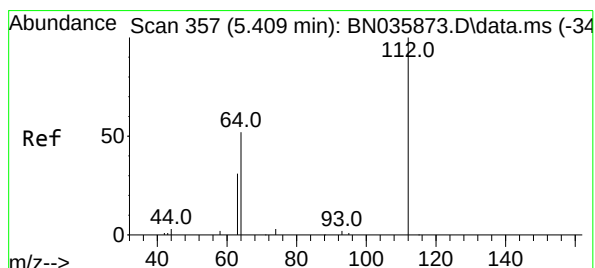
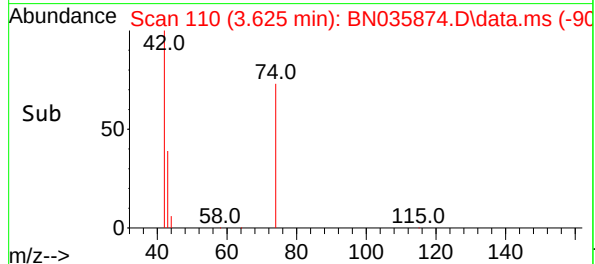
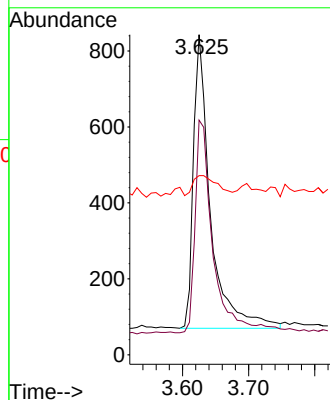
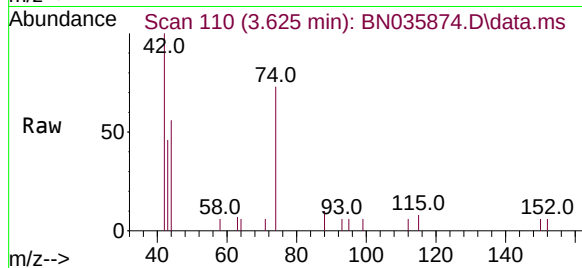
Tgt Ion: 42 Resp: 1387

Ion Ratio Lower Upper

42 100

74 76.2 62.2 93.2

44 9.6 7.1 10.7



#4

2-Fluorophenol

Concen: 0.781 ng

RT: 5.409 min Scan# 357

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

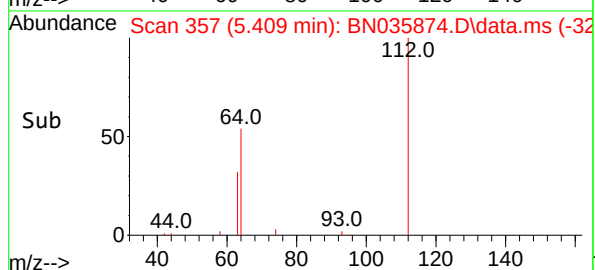
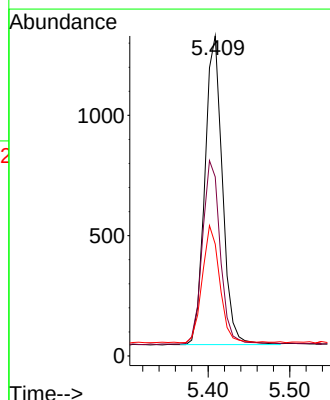
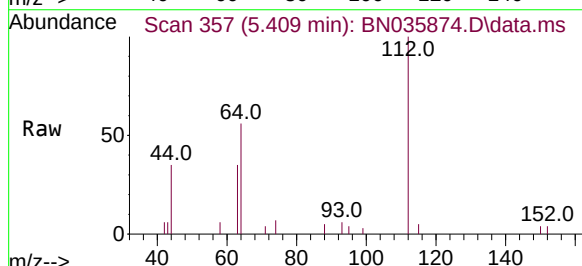
Tgt Ion: 112 Resp: 1925

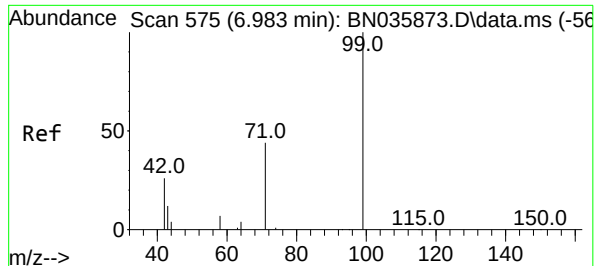
Ion Ratio Lower Upper

112 100

64 61.5 48.2 72.2

63 37.6 30.0 45.0

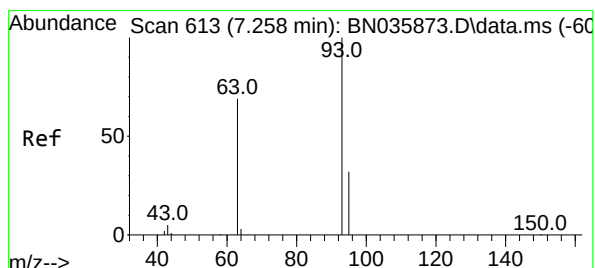
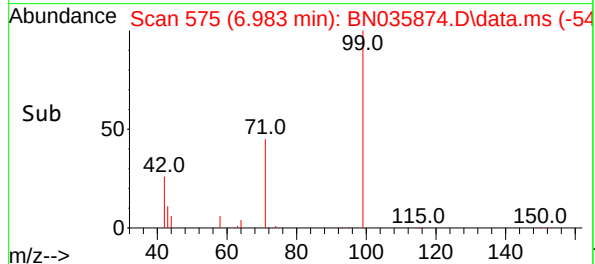
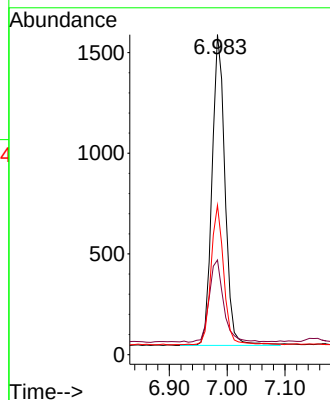
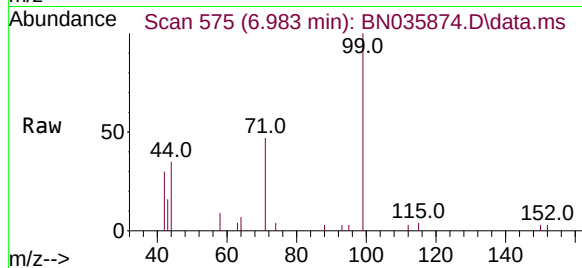




#5
Phenol-d6
Concen: 0.786 ng
RT: 6.983 min Scan# 575
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

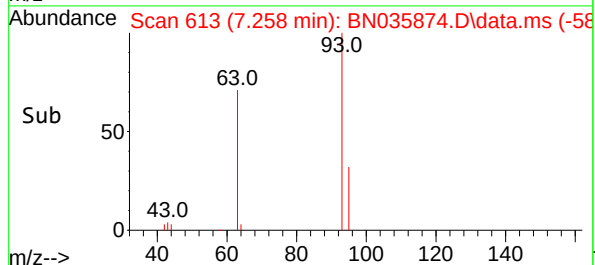
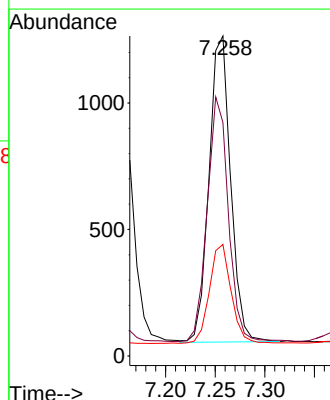
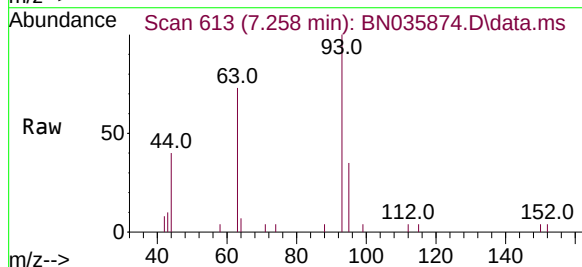
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

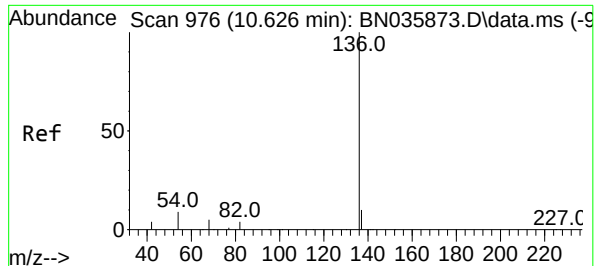
Tgt Ion:	99	Resp:	2406
Ion	Ratio	Lower	Upper
99	100		
42	29.4	23.5	35.3
71	44.2	35.5	53.3



#6
bis(2-Chloroethyl)ether
Concen: 0.787 ng
RT: 7.258 min Scan# 613
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

Tgt Ion:	93	Resp:	1835
Ion	Ratio	Lower	Upper
93	100		
63	78.4	62.0	93.0
95	33.1	25.5	38.3

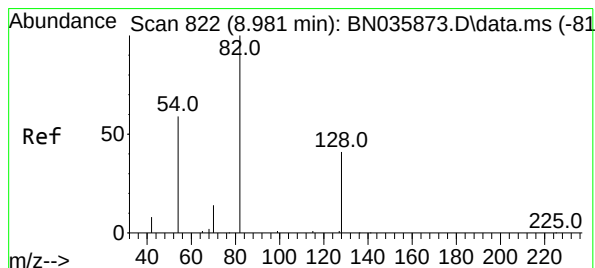
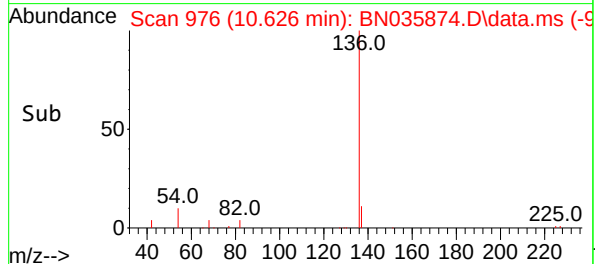
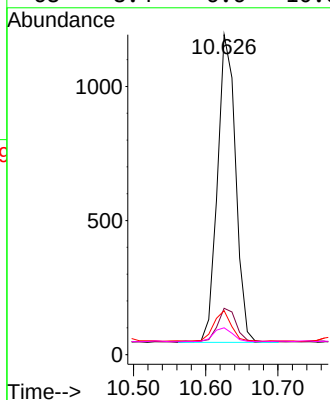
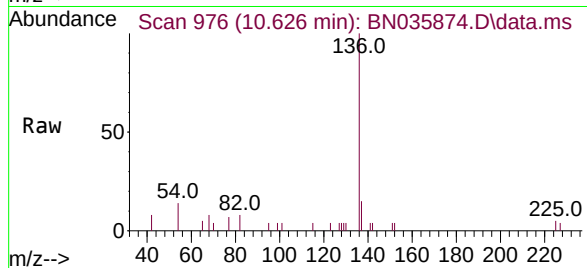




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

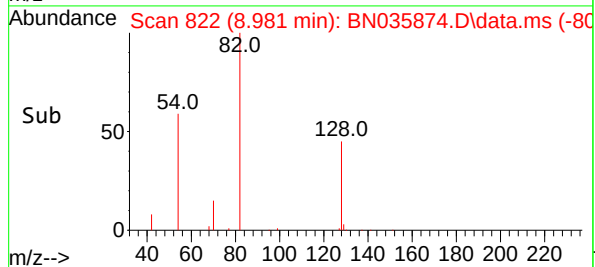
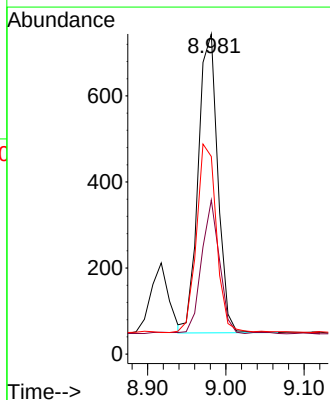
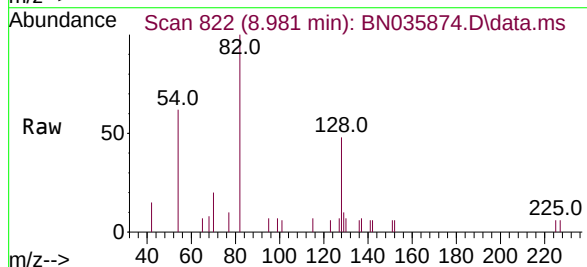
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

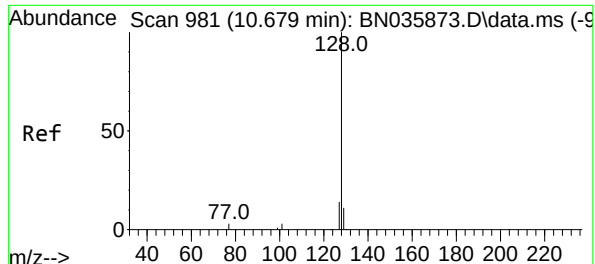
Tgt Ion:	136	Resp:	2000
Ion	Ratio	Lower	Upper
136	100		
137	14.5	10.6	15.8
54	13.7	9.8	14.6
68	8.4	6.6	10.0



#8
Nitrobenzene-d5
Concen: 0.762 ng
RT: 8.981 min Scan# 822
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

Tgt Ion:	82	Resp:	1207
Ion	Ratio	Lower	Upper
82	100		
128	48.1	36.9	55.3
54	61.7	50.4	75.6

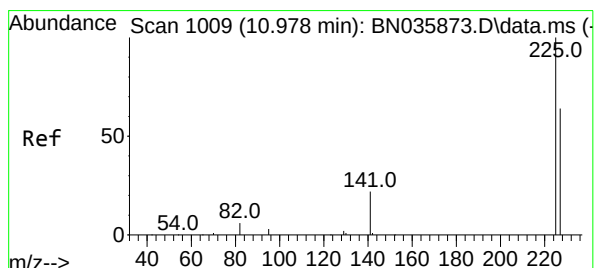
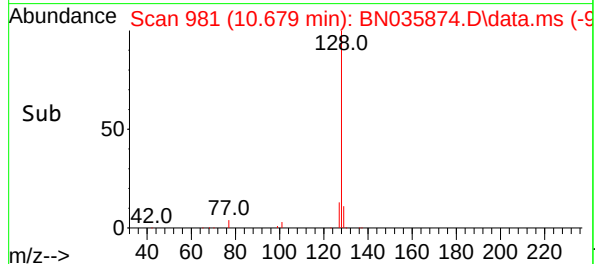
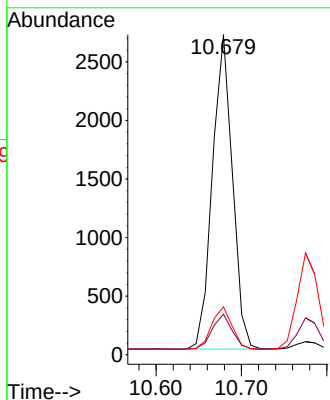
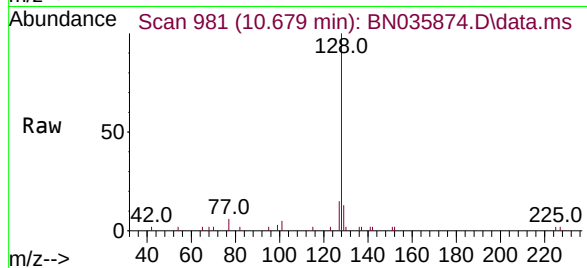




#9
Naphthalene
Concen: 0.781 ng
RT: 10.679 min Scan# 981
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

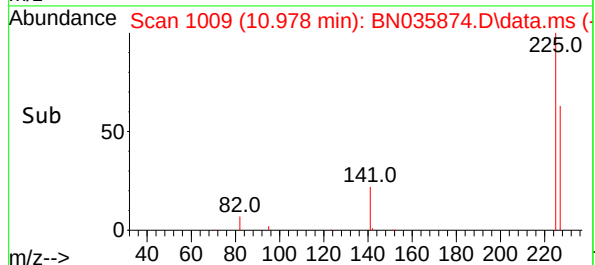
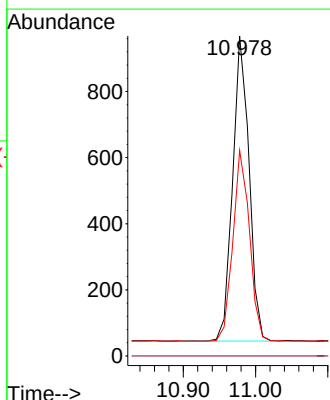
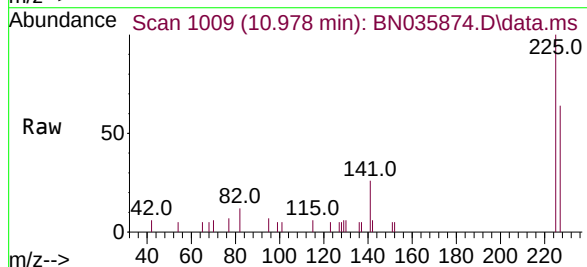
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

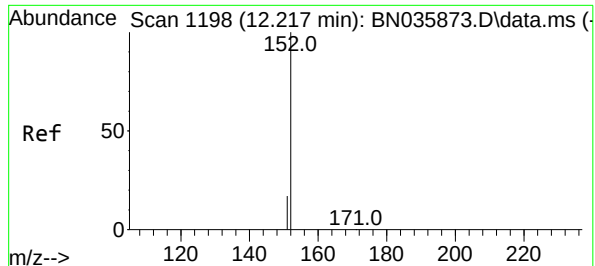
Tgt Ion:128 Resp: 4384
Ion Ratio Lower Upper
128 100
129 12.6 10.6 16.0
127 14.9 12.8 19.2



#10
Hexachlorobutadiene
Concen: 0.798 ng
RT: 10.978 min Scan# 1009
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

Tgt Ion:225 Resp: 1454
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 51.5 77.3

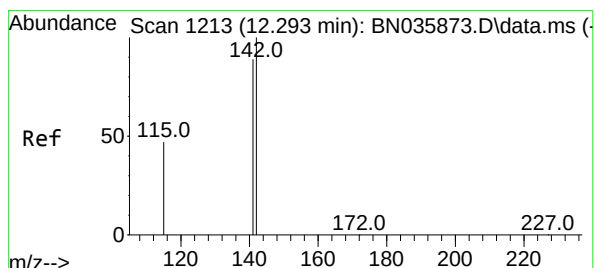
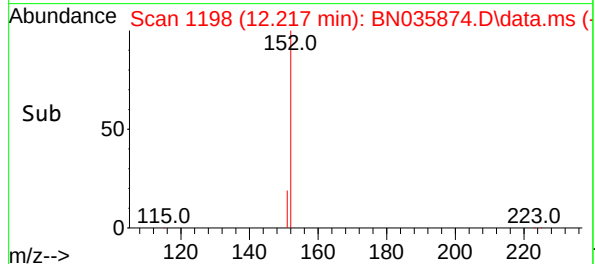
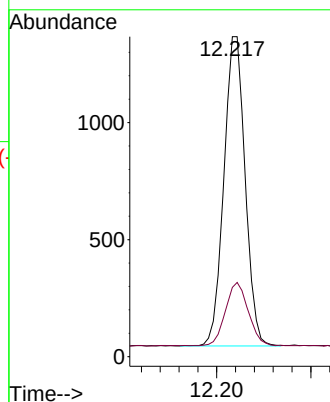
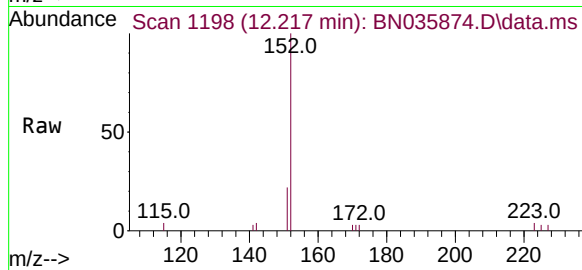




#11
2-Methylnaphthalene-d10
Concen: 0.775 ng
RT: 12.217 min Scan# 1198
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

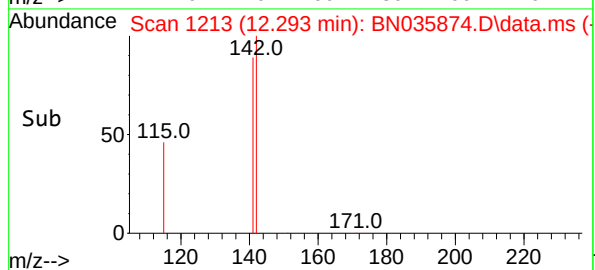
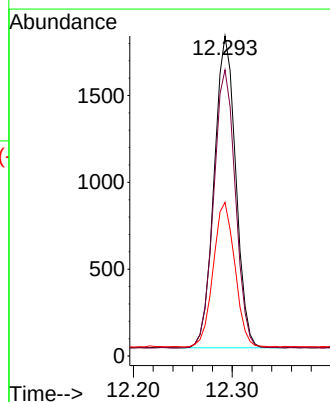
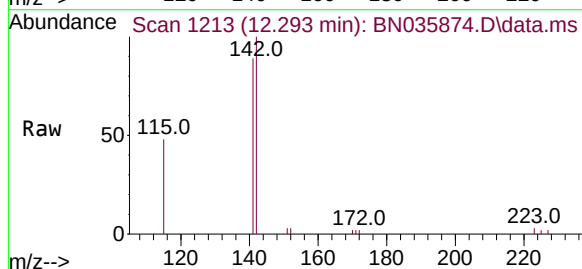
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

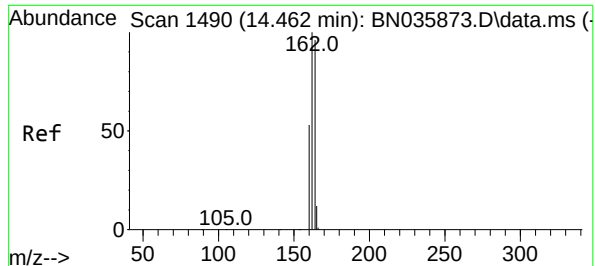
Tgt Ion:152 Resp: 2075
Ion Ratio Lower Upper
152 100
151 21.8 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.783 ng
RT: 12.293 min Scan# 1213
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

Tgt Ion:142 Resp: 2720
Ion Ratio Lower Upper
142 100
141 89.4 71.9 107.9
115 48.0 39.6 59.4

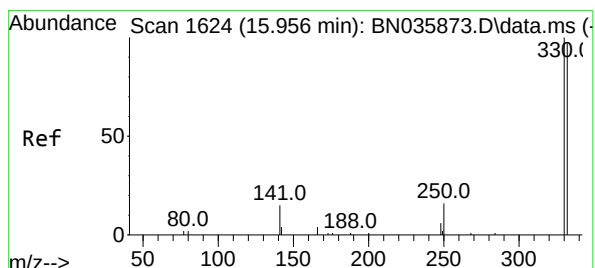
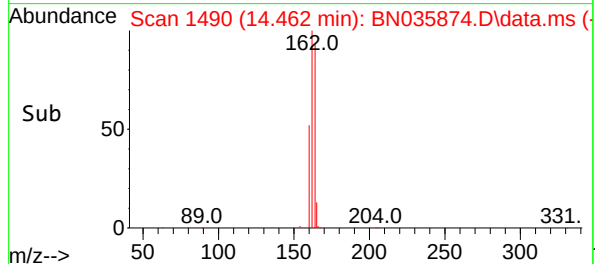
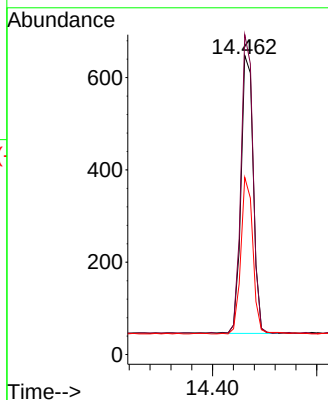
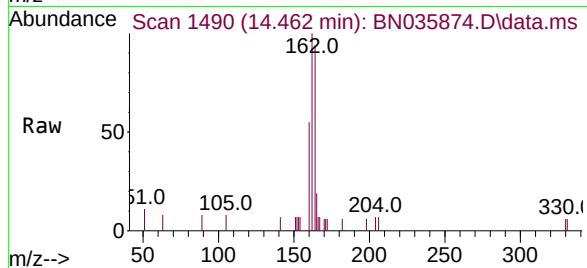




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.462 min Scan# 1490
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

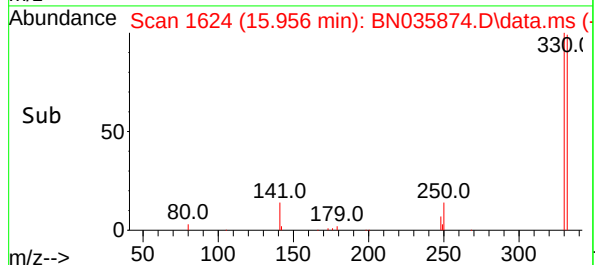
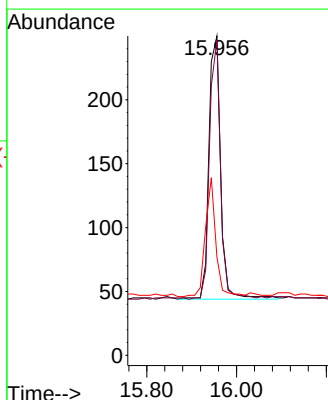
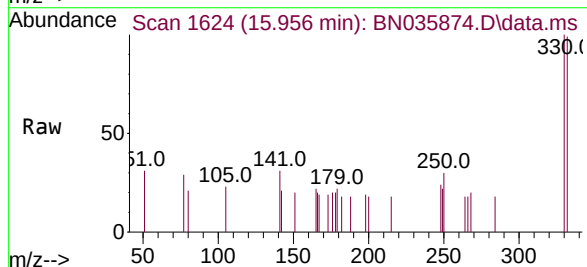
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

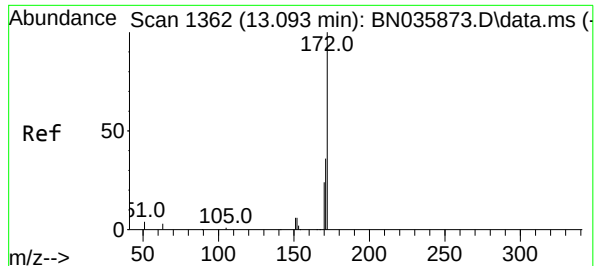
Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.9	83.1	124.7
160	59.3	46.0	69.0



#14
2,4,6-Tribromophenol
Concen: 0.789 ng
RT: 15.956 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

Tgt Ion	Ratio	Lower	Upper
330	100		
332	92.2	77.2	115.8
141	40.2	31.6	47.4





#15

2-Fluorobiphenyl

Concen: 0.804 ng

RT: 13.093 min Scan# 1362

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

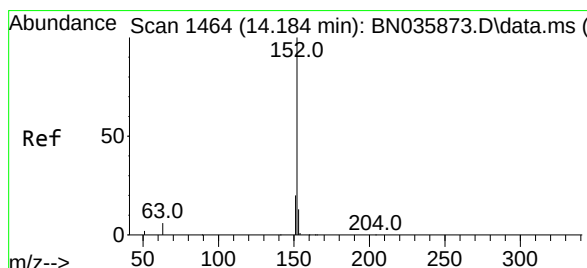
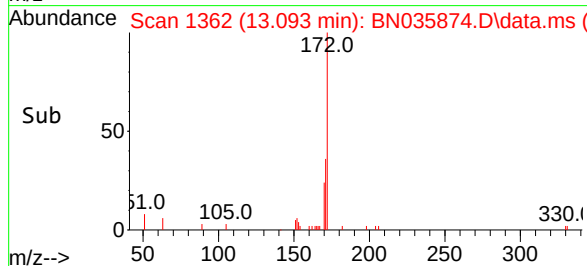
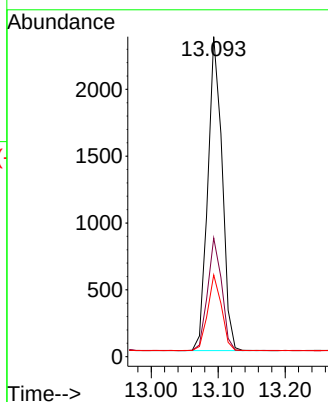
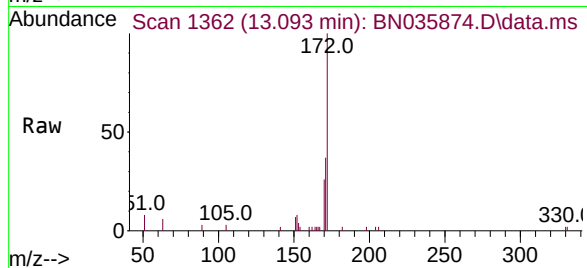
Tgt Ion:172 Resp: 3477

Ion Ratio Lower Upper

172 100

171 37.1 30.5 45.7

170 25.5 20.8 31.2



#16

Acenaphthylene

Concen: 0.781 ng

RT: 14.184 min Scan# 1464

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

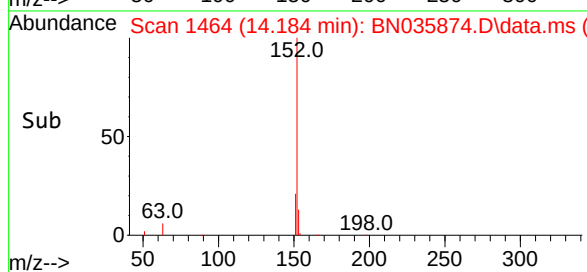
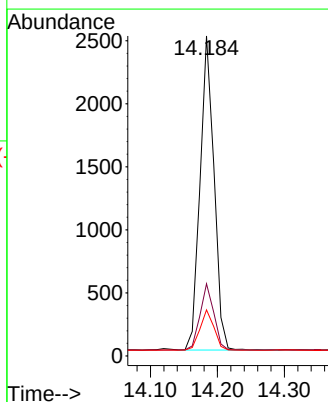
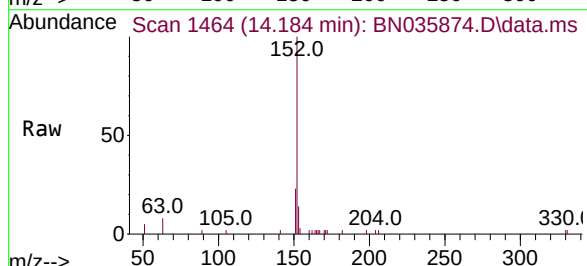
Tgt Ion:152 Resp: 3623

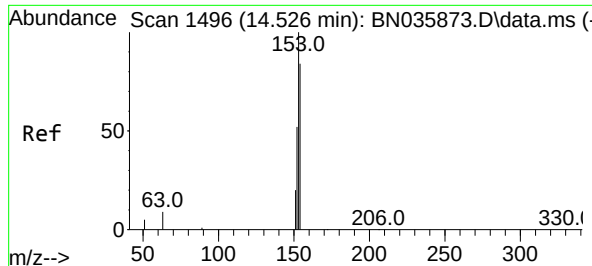
Ion Ratio Lower Upper

152 100

151 20.8 16.3 24.5

153 12.8 10.6 15.8





#17

Acenaphthene

Concen: 0.798 ng

RT: 14.526 min Scan# 1496

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

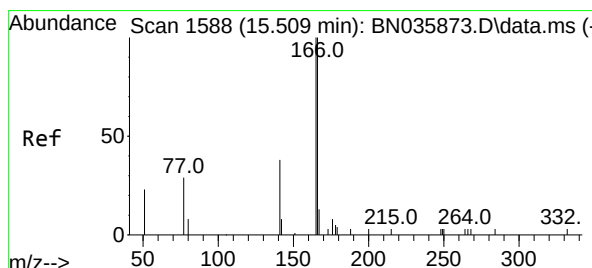
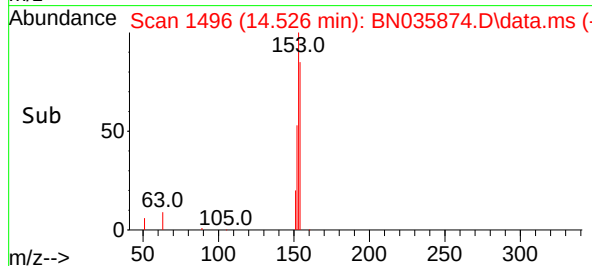
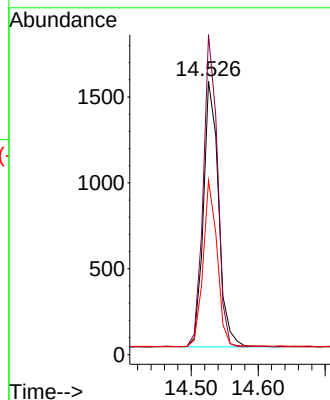
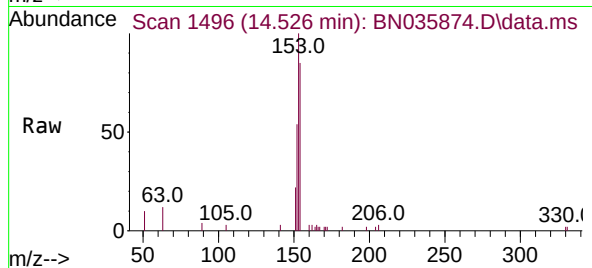
Tgt Ion:154 Resp: 2427

Ion Ratio Lower Upper

154 100

153 109.9 90.5 135.7

152 57.7 48.6 73.0



#18

Fluorene

Concen: 0.764 ng

RT: 15.509 min Scan# 1588

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

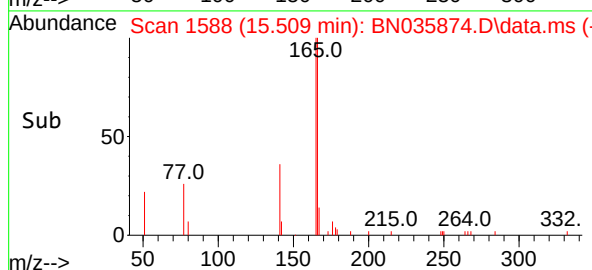
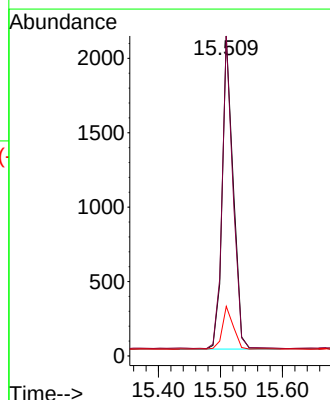
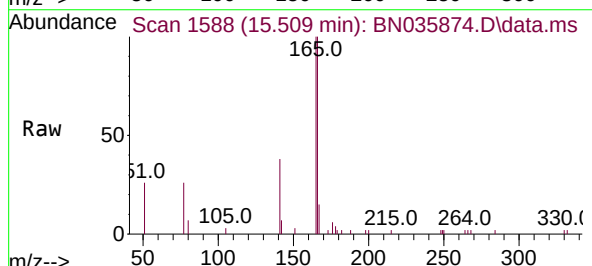
Tgt Ion:166 Resp: 2558

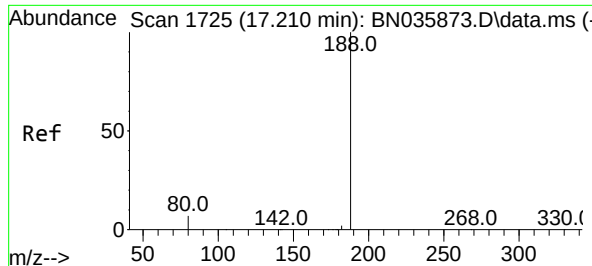
Ion Ratio Lower Upper

166 100

165 100.2 80.6 120.8

167 13.4 11.4 17.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.210 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

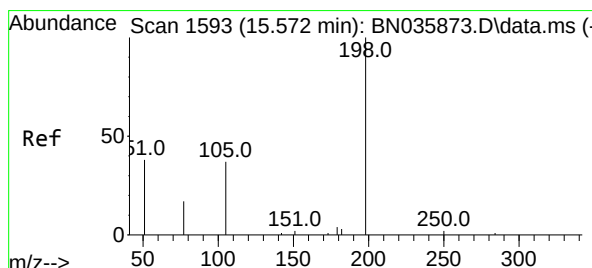
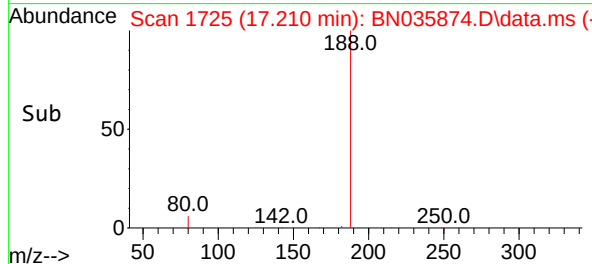
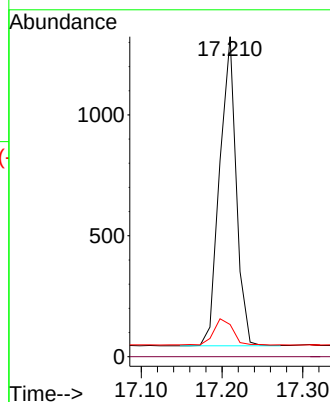
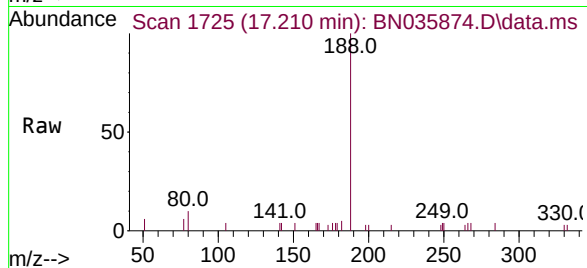
Tgt Ion:188 Resp: 1825

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.0 7.3 10.9



#20

4,6-Dinitro-2-methylphenol

Concen: 0.792 ng

RT: 15.571 min Scan# 1593

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

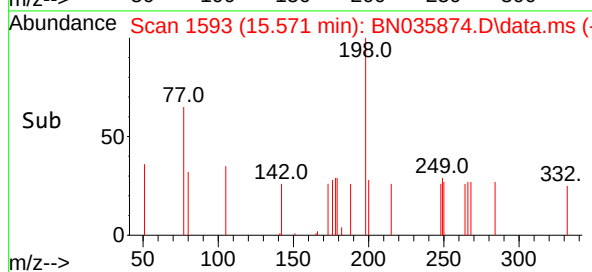
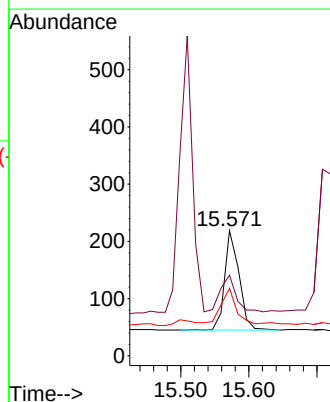
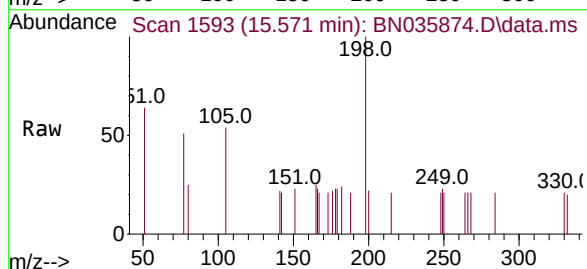
Tgt Ion:198 Resp: 251

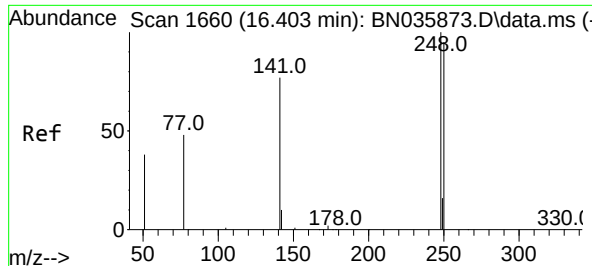
Ion Ratio Lower Upper

198 100

51 64.4 64.3 96.5

105 53.9 50.0 75.0

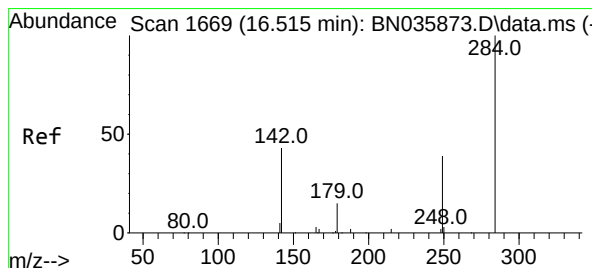
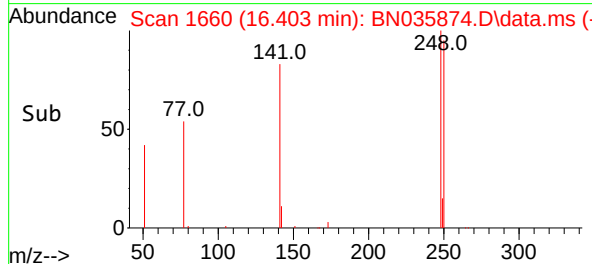
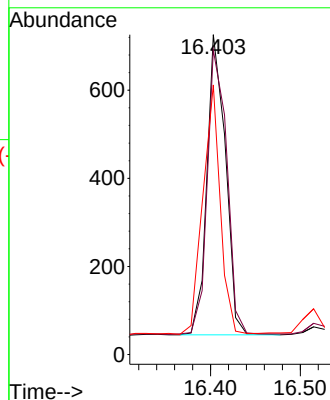
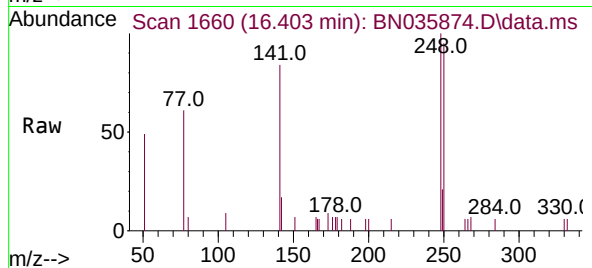




#21
4-Bromophenyl-phenylether
Concen: 0.778 ng
RT: 16.403 min Scan# 1660
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

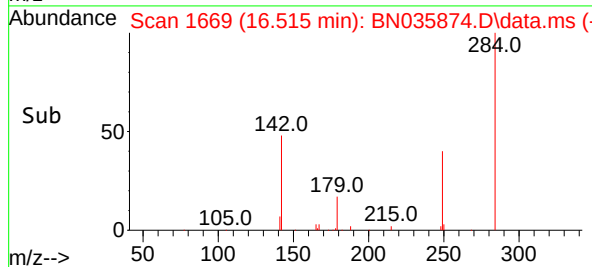
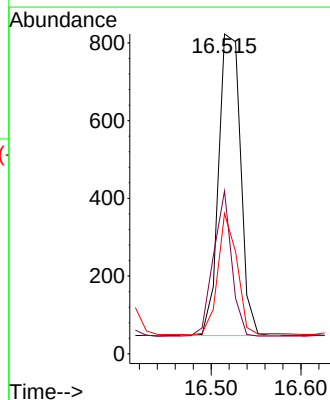
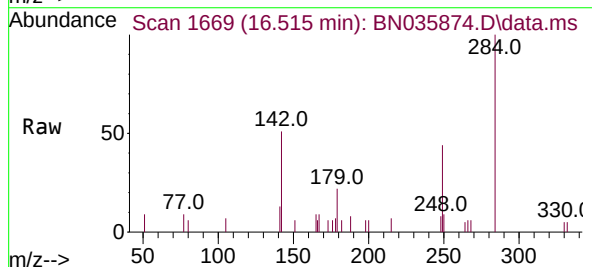
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

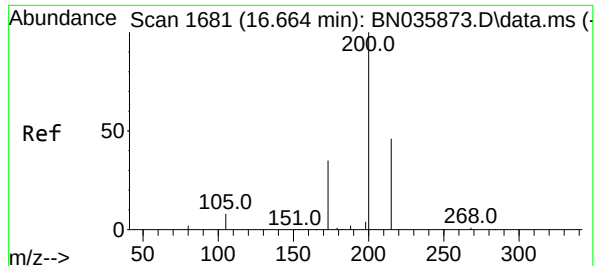
Tgt Ion	Ratio	Lower	Upper
248	100		
250	95.2	76.8	115.2
141	84.3	63.6	95.4



#22
Hexachlorobenzene
Concen: 0.774 ng
RT: 16.515 min Scan# 1669
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.6	31.4	47.0
249	35.0	27.8	41.8

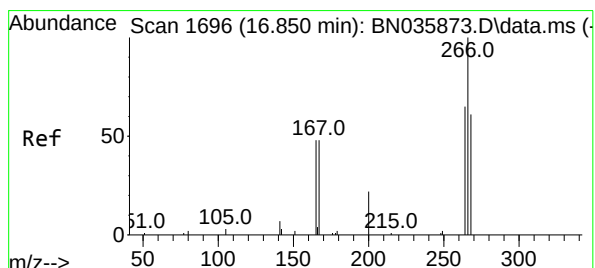
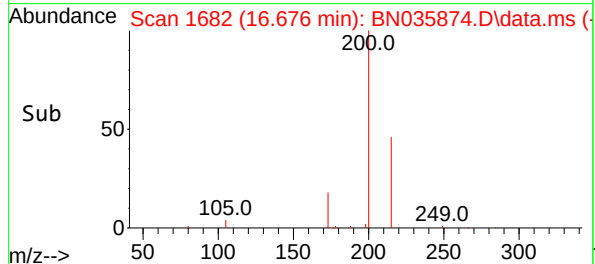
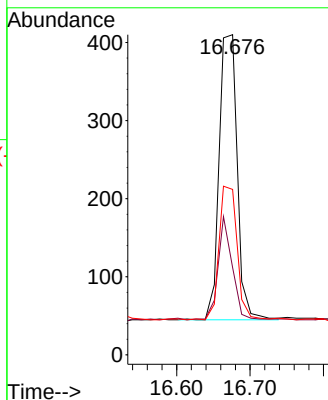
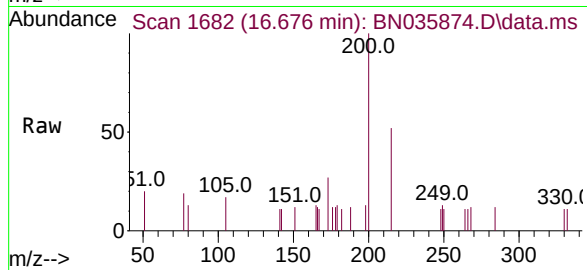




#23
Atrazine
Concen: 0.743 ng
RT: 16.676 min Scan# 1682
Delta R.T. 0.012 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

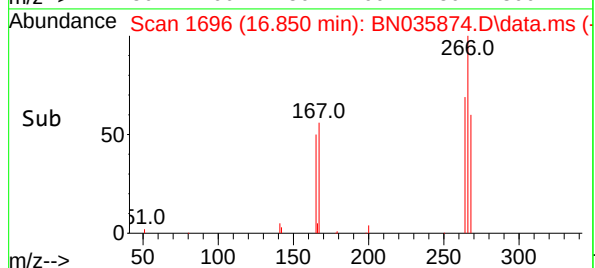
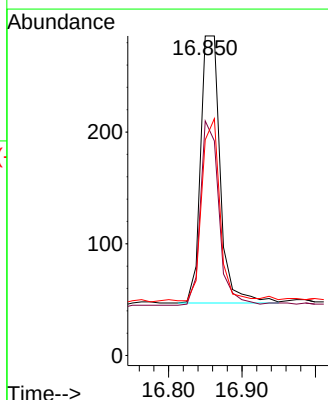
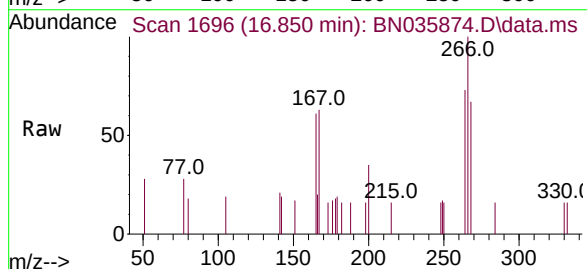
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

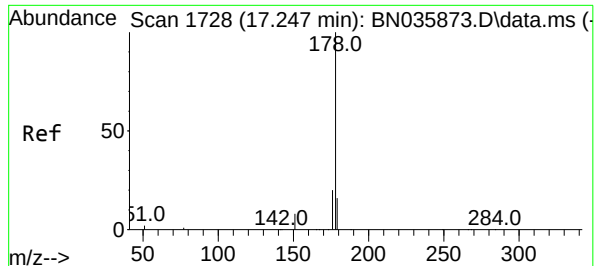
Tgt Ion:200 Resp: 624
Ion Ratio Lower Upper
200 100
173 27.3 35.4 53.0#
215 51.7 42.4 63.6



#24
Pentachlorophenol
Concen: 0.735 ng
RT: 16.850 min Scan# 1696
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

Tgt Ion:266 Resp: 444
Ion Ratio Lower Upper
266 100
264 64.6 49.9 74.9
268 64.6 50.2 75.2

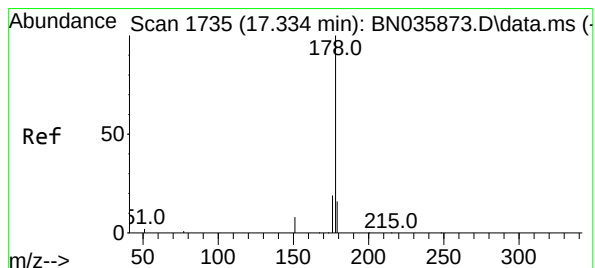
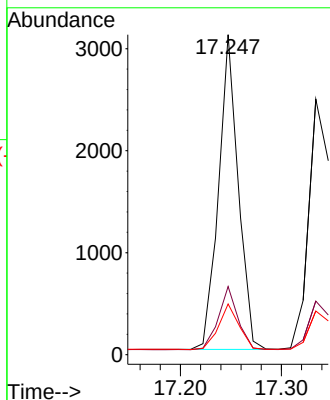
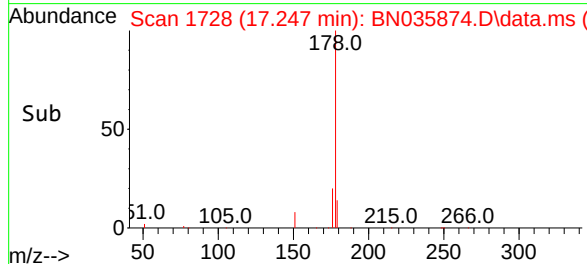
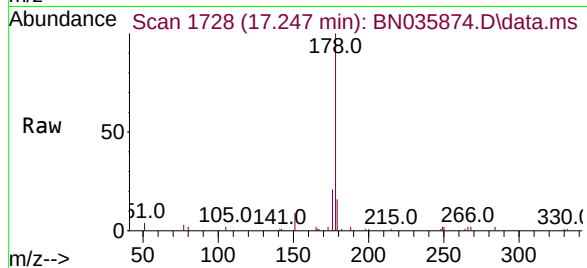




#25
Phenanthrene
Concen: 0.784 ng
RT: 17.247 min Scan# 1728
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

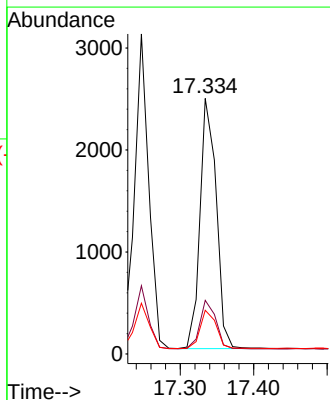
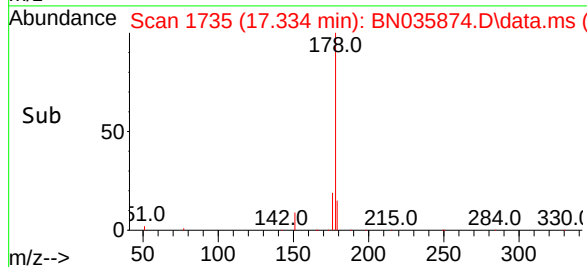
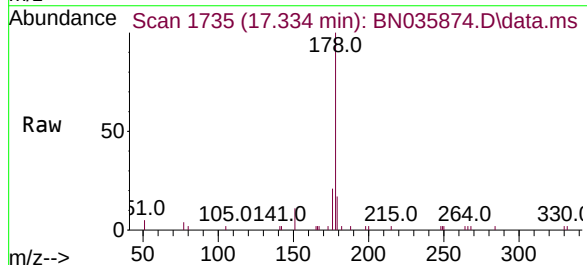
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

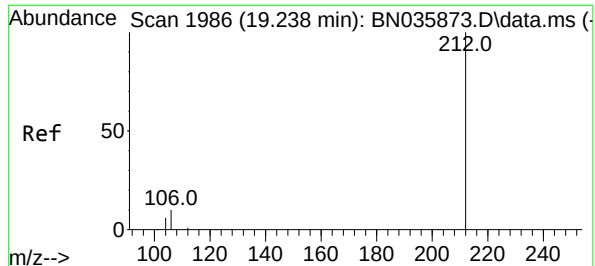
Tgt Ion:178 Resp: 4177
Ion Ratio Lower Upper
178 100
176 19.9 15.9 23.9
179 14.8 12.9 19.3



#26
Anthracene
Concen: 0.778 ng
RT: 17.334 min Scan# 1735
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

Tgt Ion:178 Resp: 3772
Ion Ratio Lower Upper
178 100
176 19.2 15.0 22.6
179 15.3 13.0 19.6





#27

Fluoranthene-d10

Concen: 0.773 ng

RT: 19.238 min Scan# 1986

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

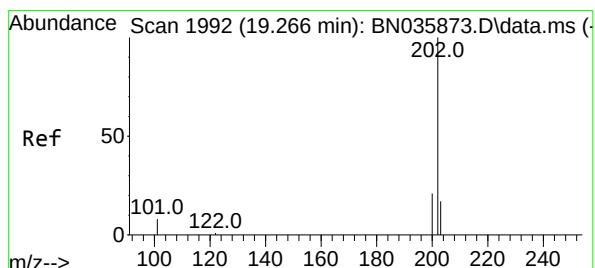
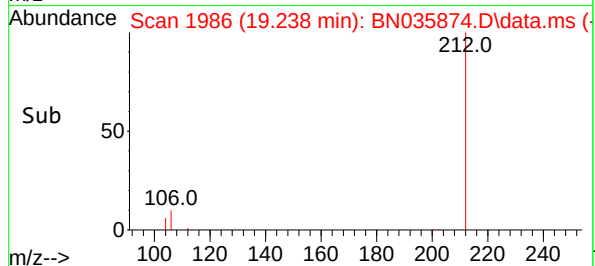
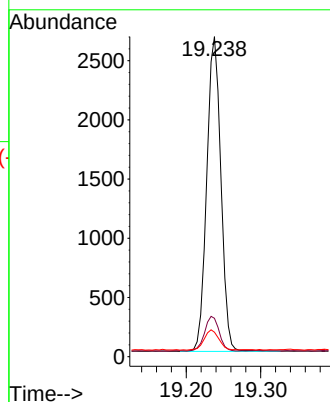
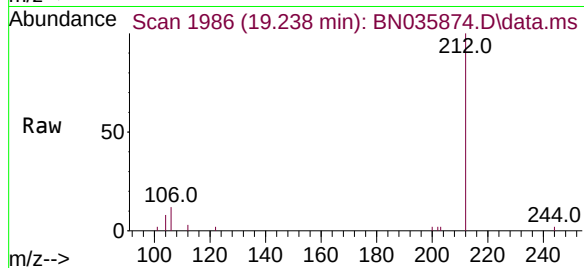
Tgt Ion:212 Resp: 3502

Ion Ratio Lower Upper

212 100

106 11.3 9.0 13.6

104 6.8 5.4 8.2



#28

Fluoranthene

Concen: 0.772 ng

RT: 19.266 min Scan# 1992

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

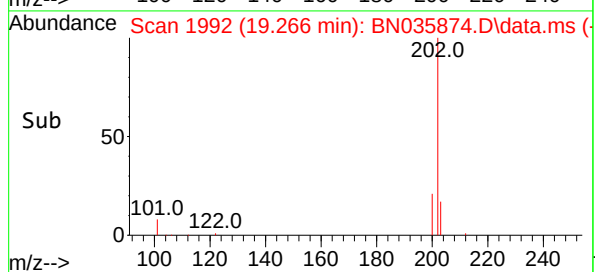
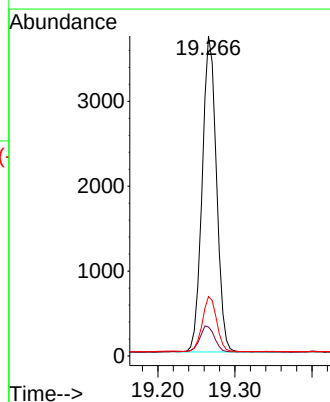
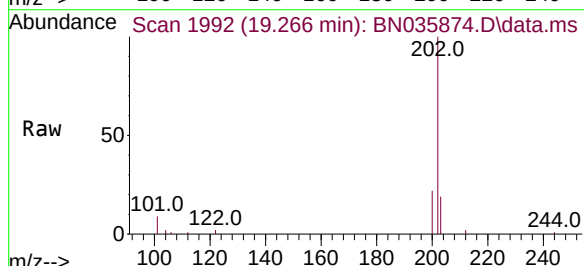
Tgt Ion:202 Resp: 4790

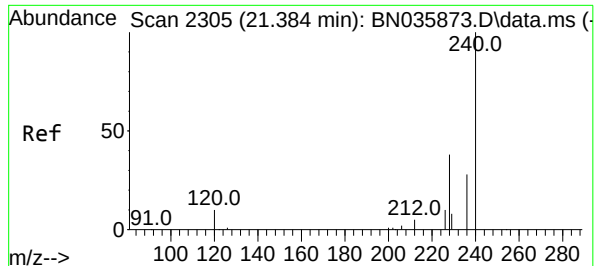
Ion Ratio Lower Upper

202 100

101 8.8 7.2 10.8

203 17.4 13.9 20.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.384 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

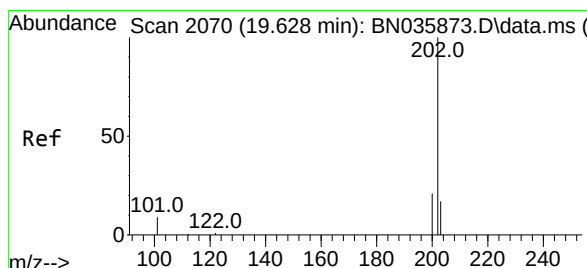
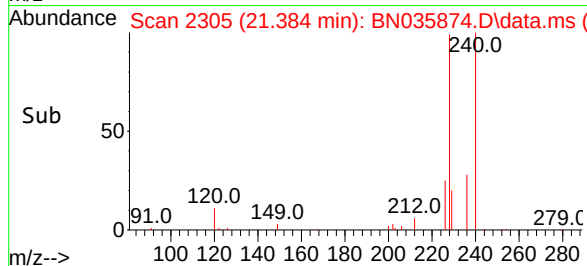
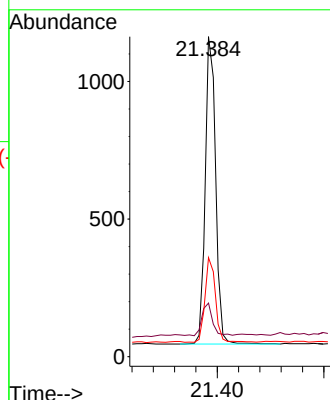
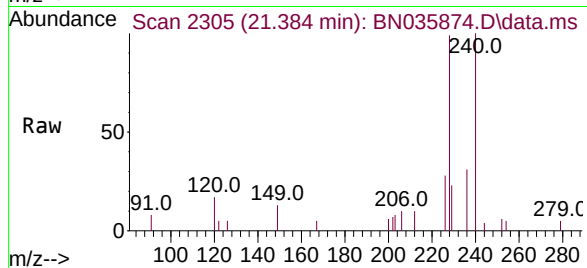
Tgt Ion:240 Resp: 1508

Ion Ratio Lower Upper

240 100

120 16.8 11.1 16.7#

236 31.0 24.6 36.8



#30

Pyrene

Concen: 0.794 ng

RT: 19.628 min Scan# 2070

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

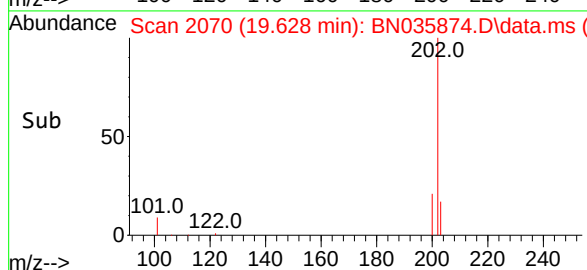
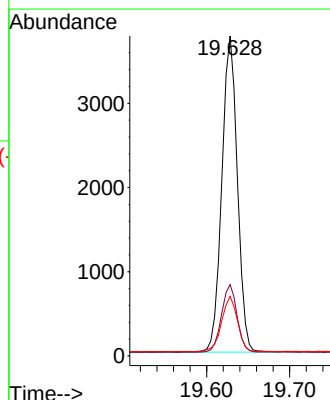
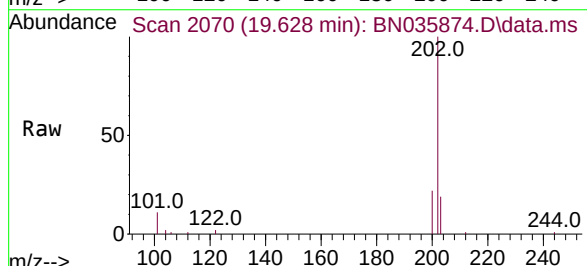
Tgt Ion:202 Resp: 4863

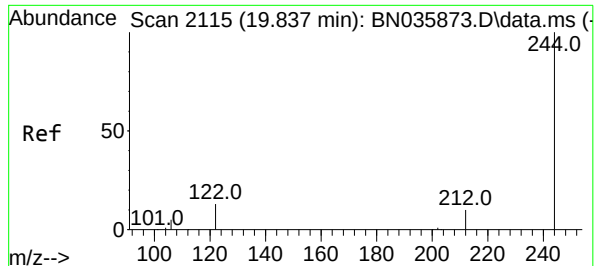
Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.6

203 17.9 14.6 22.0

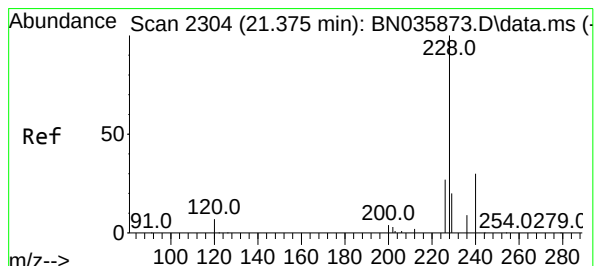
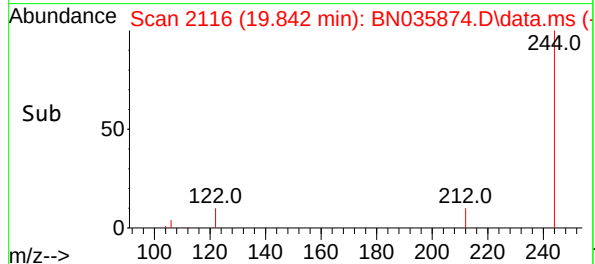
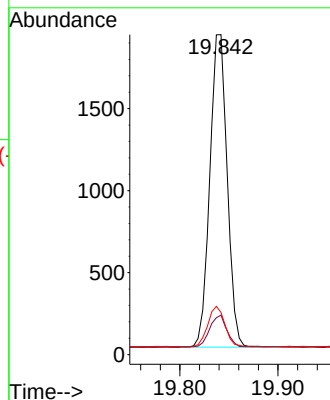
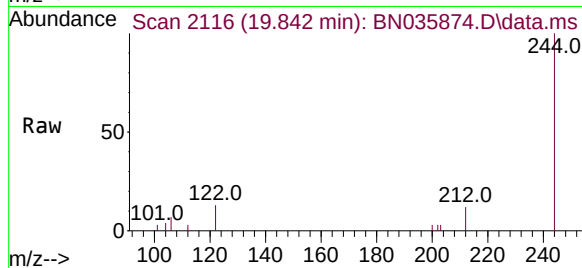




#31
Terphenyl-d14
Concen: 0.780 ng
RT: 19.842 min Scan# 2116
Delta R.T. 0.005 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

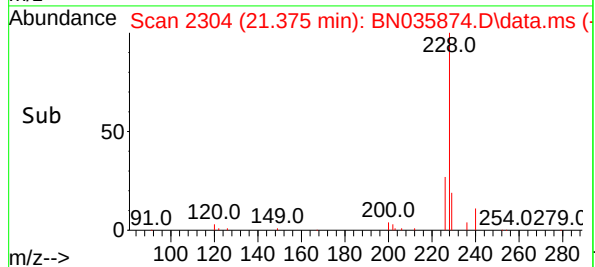
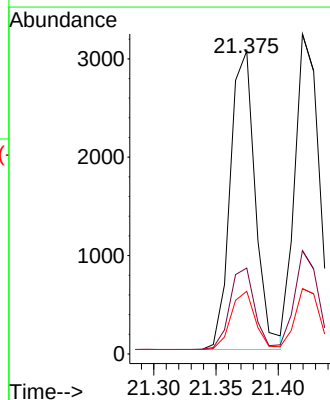
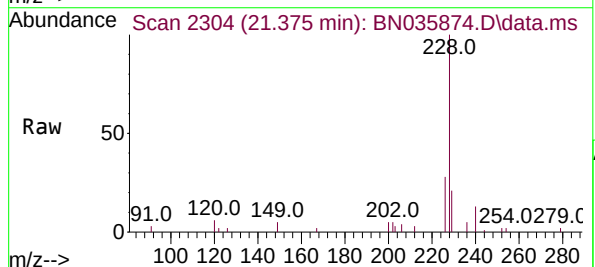
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

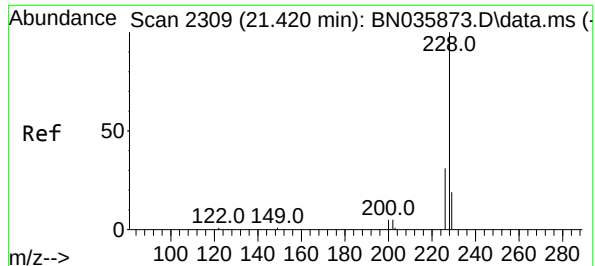
Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.4	10.1	15.1
122	13.2	12.2	18.4



#32
Benzo(a)anthracene
Concen: 0.799 ng
RT: 21.375 min Scan# 2304
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.7	34.1
229	20.7	17.1	25.7





#33

Chrysene

Concen: 0.787 ng

RT: 21.419 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

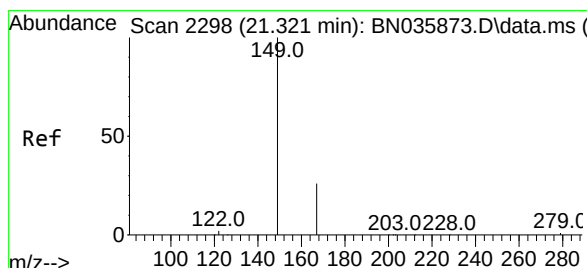
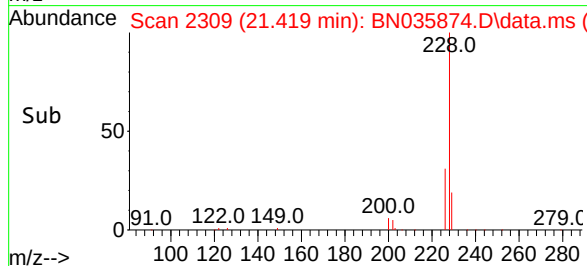
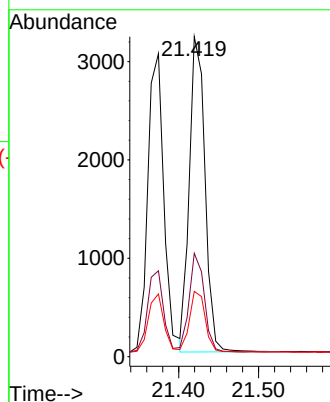
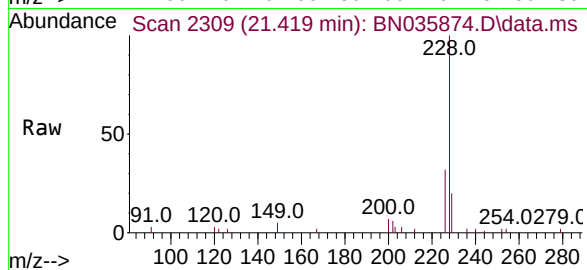
Tgt Ion:228 Resp: 4376

Ion Ratio Lower Upper

228 100

226 32.3 25.2 37.8

229 20.4 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.755 ng

RT: 21.330 min Scan# 2299

Delta R.T. 0.009 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

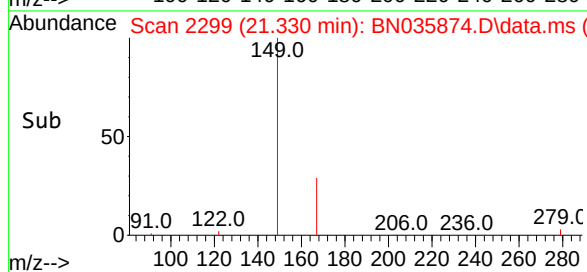
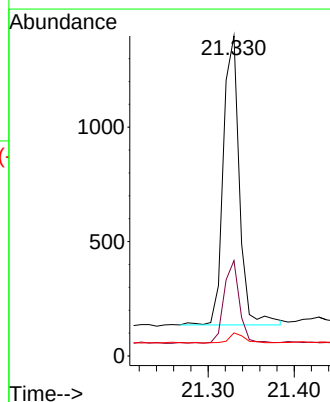
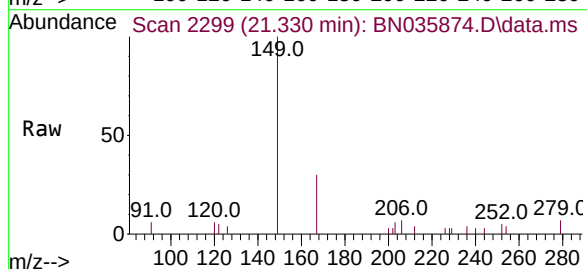
Tgt Ion:149 Resp: 1633

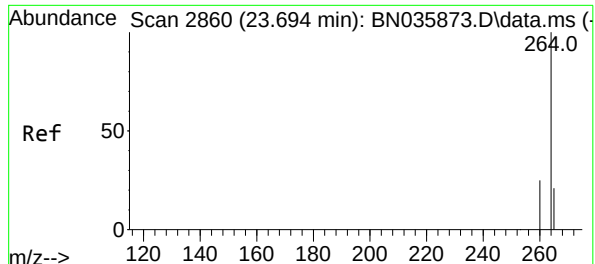
Ion Ratio Lower Upper

149 100

167 26.9 21.4 32.0

279 3.6 3.0 4.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.694 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

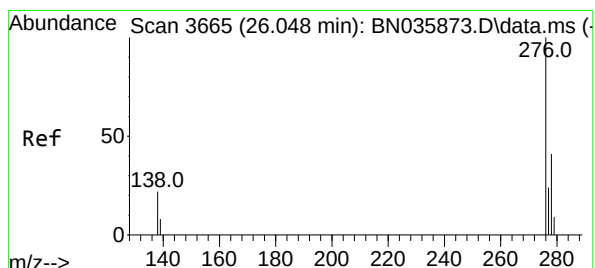
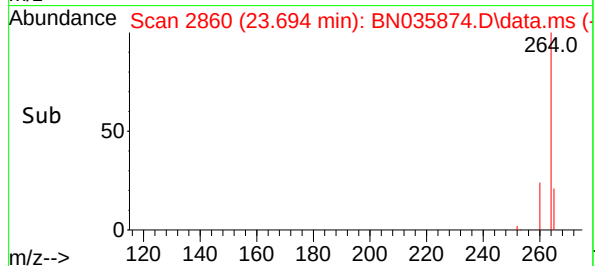
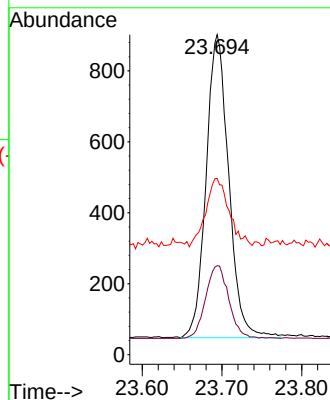
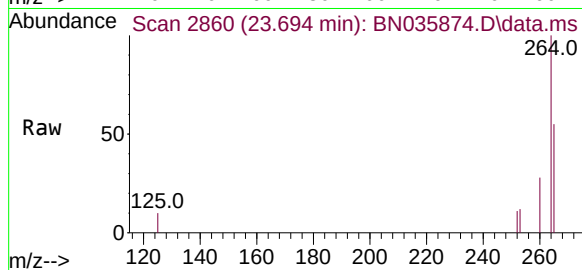
Tgt Ion:264 Resp: 1682

Ion Ratio Lower Upper

264 100

260 27.8 21.7 32.5

265 55.1 33.9 50.9#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.800 ng

RT: 26.050 min Scan# 3666

Delta R.T. 0.003 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

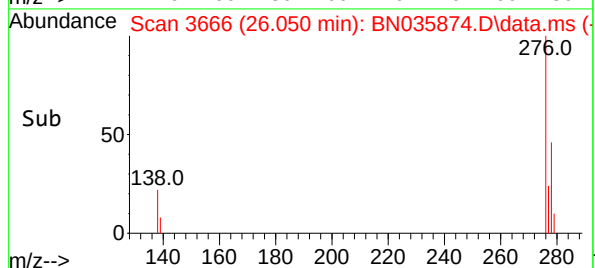
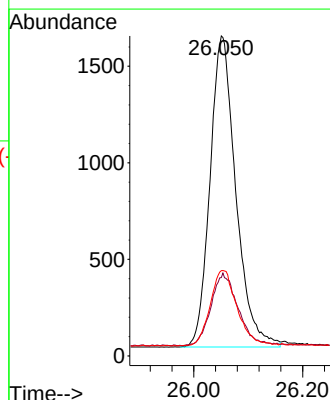
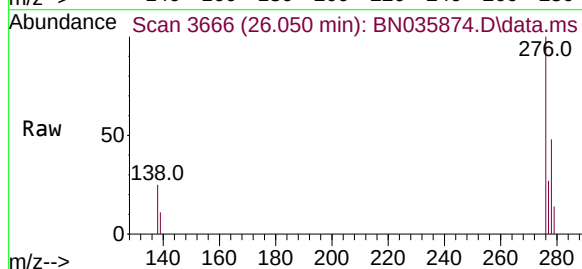
Tgt Ion:276 Resp: 5308

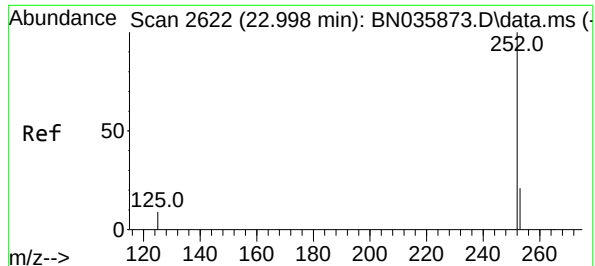
Ion Ratio Lower Upper

276 100

138 23.9 18.9 28.3

277 25.2 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.787 ng

RT: 22.998 min Scan# 2622

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

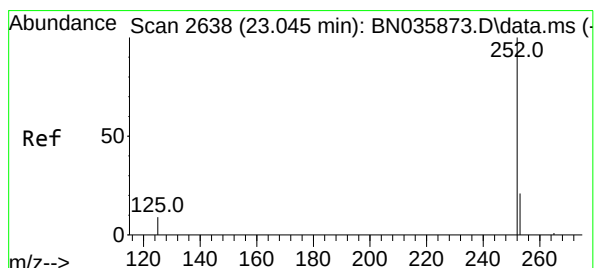
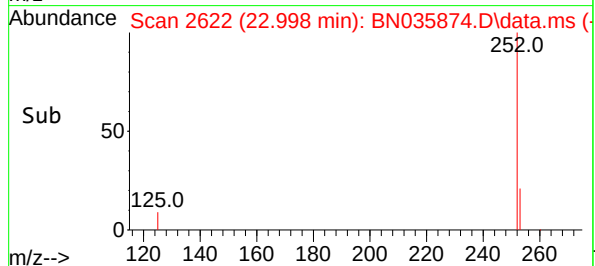
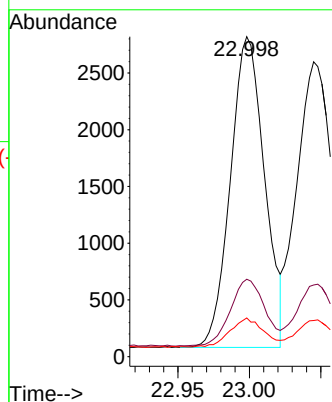
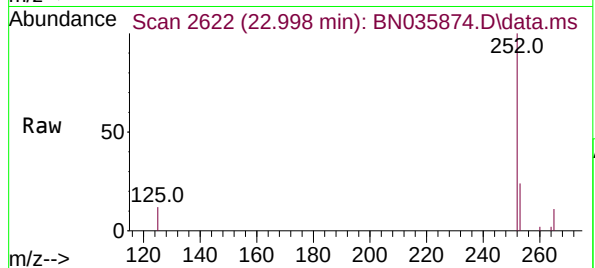
Tgt Ion:252 Resp: 4545

Ion Ratio Lower Upper

252 100

253 24.2 20.1 30.1

125 12.1 9.9 14.9



#38

Benzo(k)fluoranthene

Concen: 0.790 ng

RT: 23.045 min Scan# 2638

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

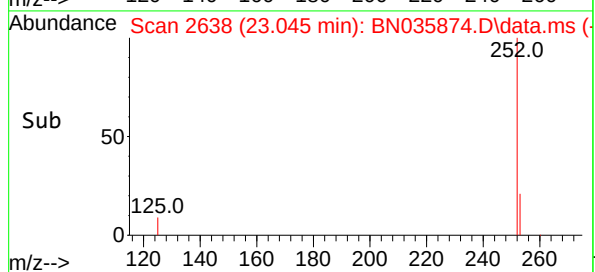
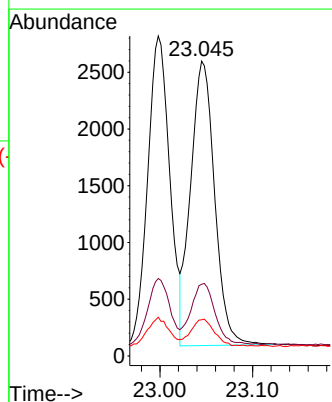
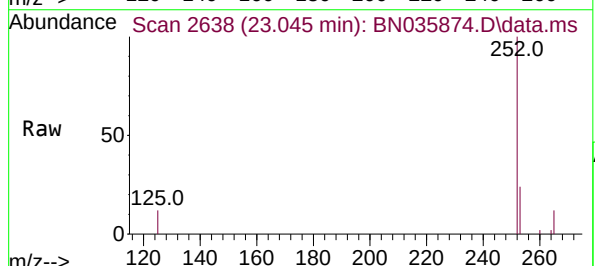
Tgt Ion:252 Resp: 4521

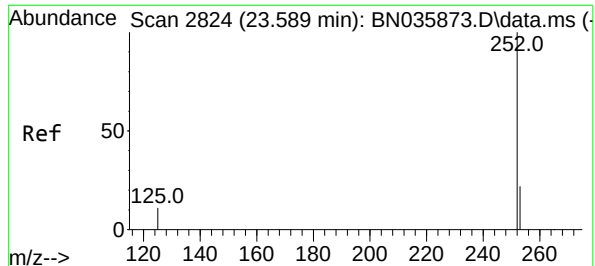
Ion Ratio Lower Upper

252 100

253 24.3 20.5 30.7

125 12.3 10.6 16.0





#39

Benzo(a)pyrene

Concen: 0.782 ng

RT: 23.595 min Scan# 2826

Delta R.T. 0.006 min

Lab File: BN035874.D

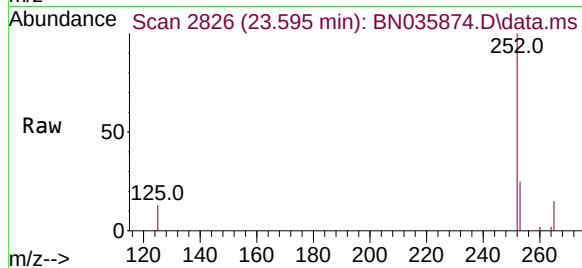
Acq: 02 Jan 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



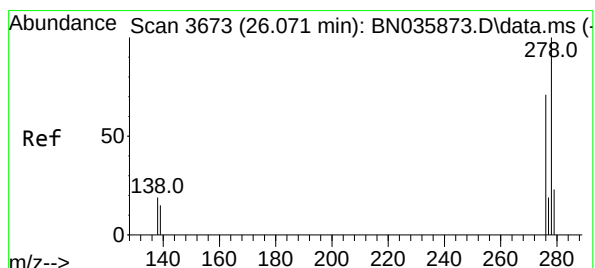
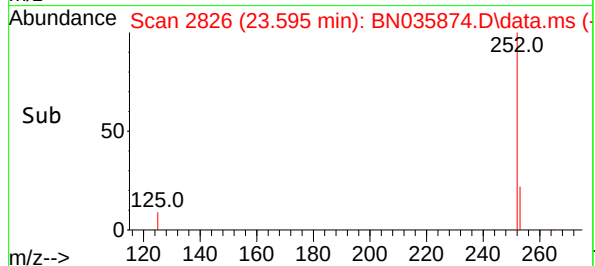
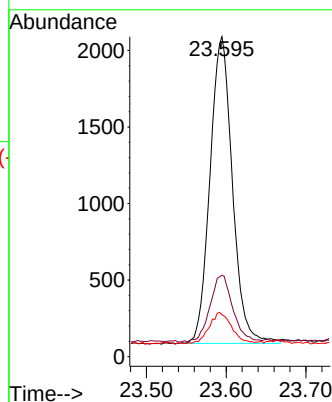
Tgt Ion:252 Resp: 3913

Ion Ratio Lower Upper

252 100

253 25.5 21.5 32.3

125 13.1 12.6 19.0



#40

Dibenzo(a,h)anthracene

Concen: 0.798 ng

RT: 26.071 min Scan# 3673

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

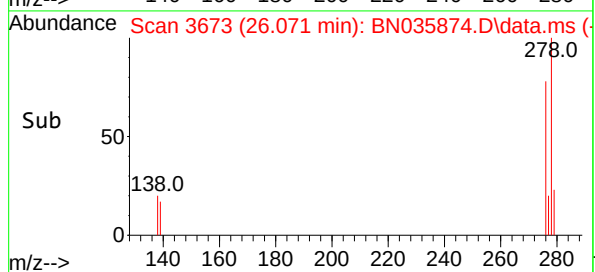
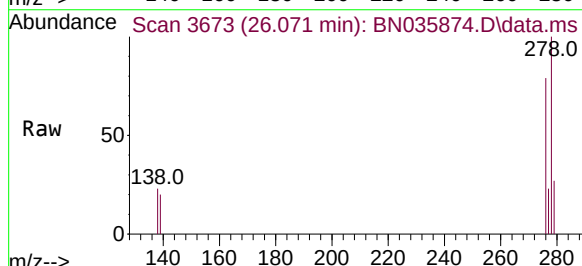
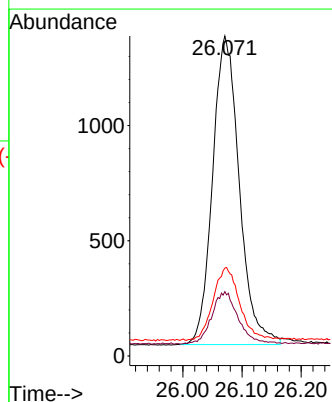
Tgt Ion:278 Resp: 4209

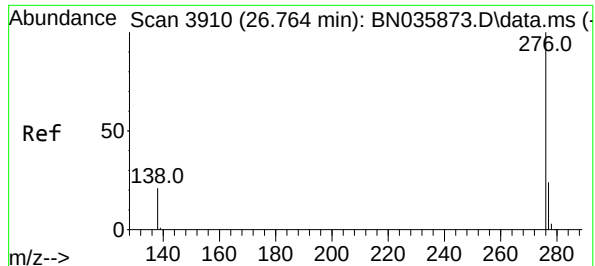
Ion Ratio Lower Upper

278 100

139 20.1 15.9 23.9

279 27.4 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 0.802 ng

RT: 26.767 min Scan# 3911

Delta R.T. 0.003 min

Lab File: BN035874.D

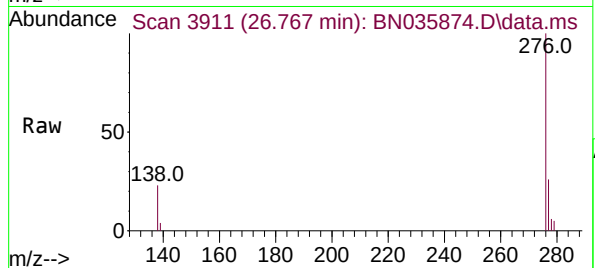
Acq: 02 Jan 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



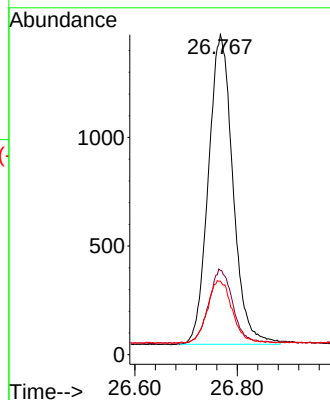
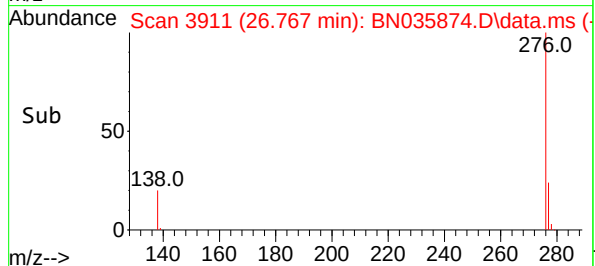
Tgt Ion:276 Resp: 4732

Ion Ratio Lower Upper

276 100

277 26.3 22.8 34.2

138 23.0 20.1 30.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
 Data File : BN035875.D
 Acq On : 02 Jan 2025 13:52
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Jan 02 15:50:39 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

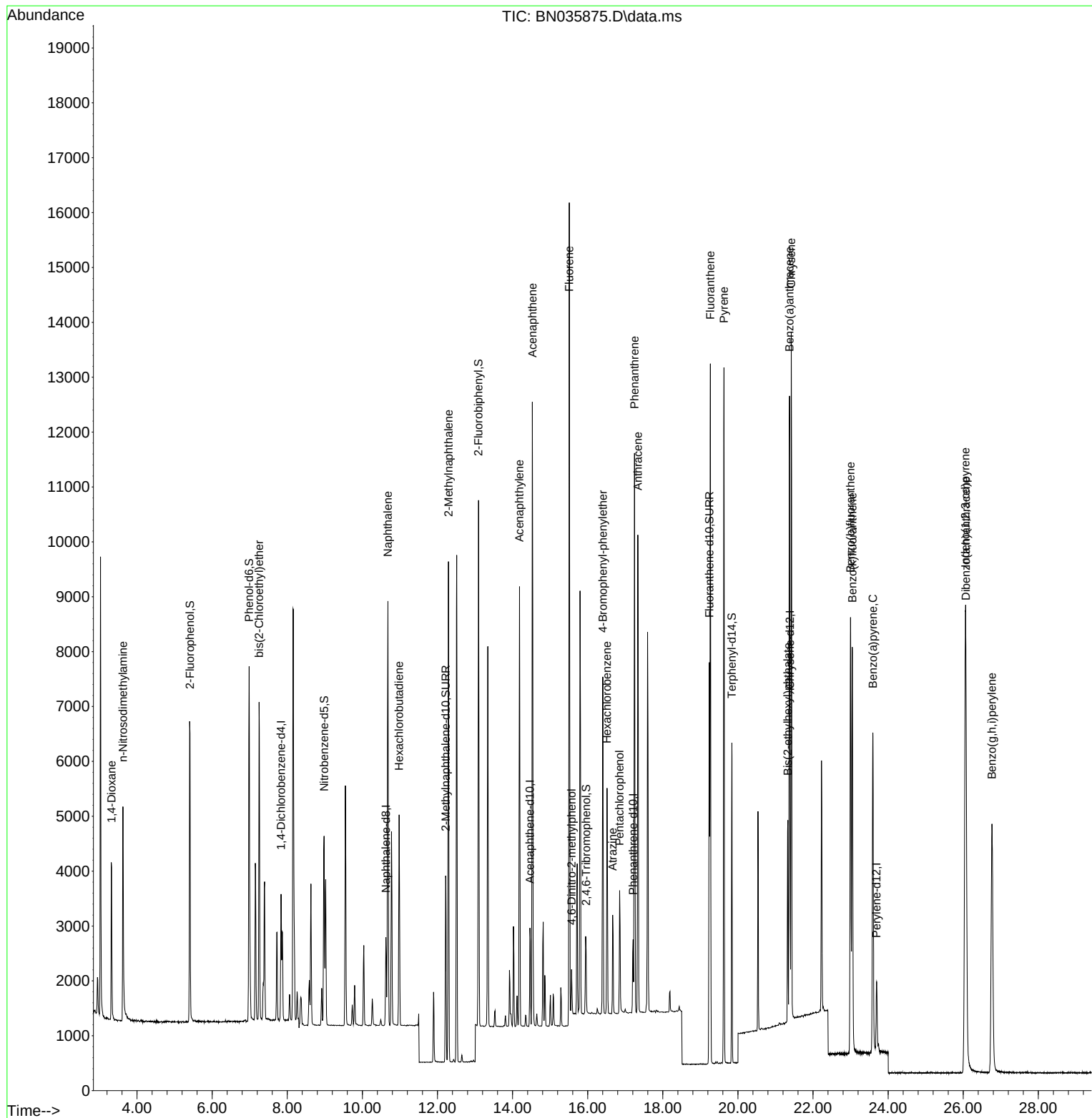
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.835	152	1039	0.400	ng	0.00
7) Naphthalene-d8	10.625	136	2002	0.400	ng	0.00
13) Acenaphthene-d10	14.462	164	1024	0.400	ng	0.00
19) Phenanthrene-d10	17.210	188	1916	0.400	ng	0.00
29) Chrysene-d12	21.384	240	1622	0.400	ng	0.00
35) Perylene-d12	23.691	264	1727	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.409	112	4142	1.625	ng	0.00
5) Phenol-d6	6.983	99	5048	1.595	ng	0.00
8) Nitrobenzene-d5	8.981	82	2556	1.612	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	4454	1.662	ng	0.00
14) 2,4,6-Tribromophenol	15.956	330	847	1.723	ng	0.00
15) 2-Fluorobiphenyl	13.093	172	7465	1.661	ng	0.00
27) Fluoranthene-d10	19.238	212	7879	1.657	ng	0.00
31) Terphenyl-d14	19.837	244	5373	1.662	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.321	88	1627	1.577	ng	97
3) n-Nitrosodimethylamine	3.625	42	3002	1.667	ng	# 97
6) bis(2-Chloroethyl)ether	7.250	93	3900	1.617	ng	100
9) Naphthalene	10.679	128	9344	1.663	ng	96
10) Hexachlorobutadiene	10.978	225	3062	1.678	ng	# 99
12) 2-Methylnaphthalene	12.293	142	5850	1.682	ng	99
16) Acenaphthylene	14.184	152	8035	1.666	ng	100
17) Acenaphthene	14.526	154	5325	1.684	ng	97
18) Fluorene	15.509	166	5812	1.671	ng	97
20) 4,6-Dinitro-2-methylph...	15.571	198	585	1.758	ng	# 72
21) 4-Bromophenyl-phenylether	16.403	248	2219	1.689	ng	98
22) Hexachlorobenzene	16.515	284	3022	1.687	ng	98
23) Atrazine	16.664	200	1516	1.720	ng	# 87
24) Pentachlorophenol	16.850	266	1099	1.733	ng	99
25) Phenanthrene	17.247	178	9410	1.683	ng	99
26) Anthracene	17.334	178	8714	1.713	ng	99
28) Fluoranthene	19.266	202	11040	1.694	ng	99
30) Pyrene	19.628	202	11104	1.686	ng	99
32) Benzo(a)anthracene	21.375	228	9482	1.659	ng	98
33) Chrysene	21.419	228	10000	1.672	ng	99
34) Bis(2-ethylhexyl)phtha...	21.330	149	3691	1.586	ng	98
36) Indeno(1,2,3-cd)pyrene	26.056	276	11724	1.721	ng	99
37) Benzo(b)fluoranthene	22.998	252	10128	1.707	ng	95
38) Benzo(k)fluoranthene	23.045	252	10151	1.728	ng	# 94
39) Benzo(a)pyrene	23.592	252	8775	1.709	ng	# 92
40) Dibenzo(a,h)anthracene	26.071	278	9415	1.738	ng	94
41) Benzo(g,h,i)perylene	26.764	276	10294	1.699	ng	93

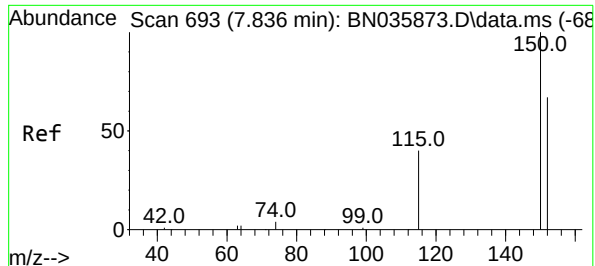
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
Data File : BN035875.D
Acq On : 02 Jan 2025 13:52
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Jan 02 15:50:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

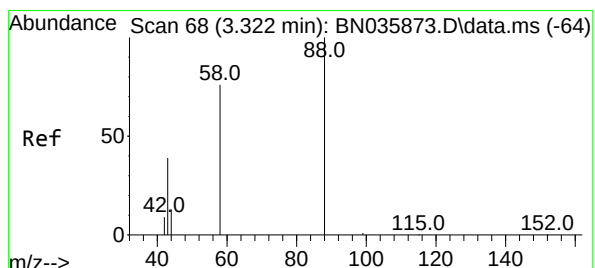
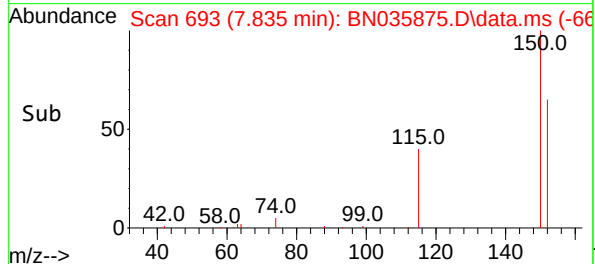
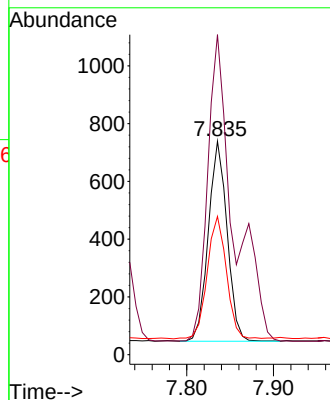
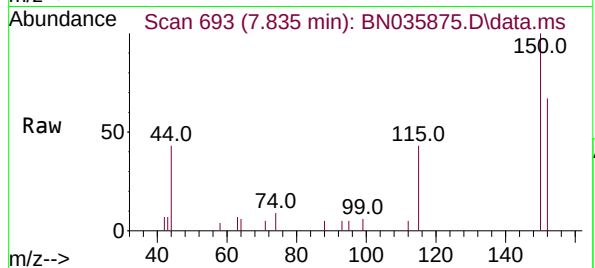




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.835 min Scan# 69
Delta R.T. -0.001 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

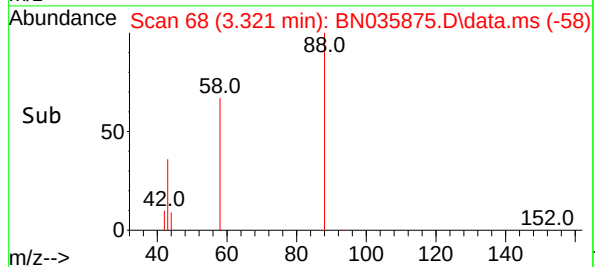
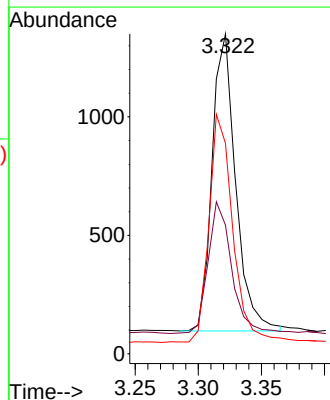
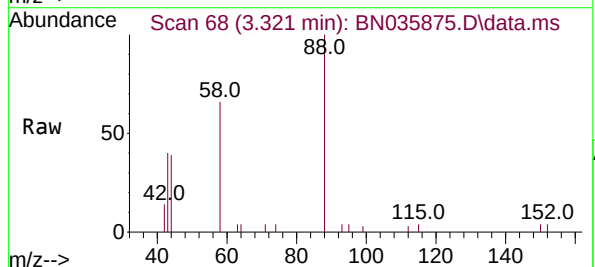
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

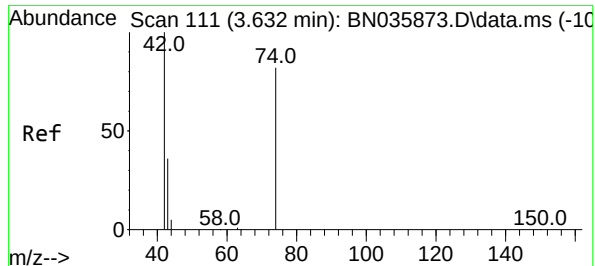
Tgt Ion:152 Resp: 1039
Ion Ratio Lower Upper
152 100
150 149.9 117.8 176.6
115 64.8 51.0 76.4



#2
1,4-Dioxane
Concen: 1.577 ng
RT: 3.321 min Scan# 68
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

Tgt Ion: 88 Resp: 1627
Ion Ratio Lower Upper
88 100
43 44.4 32.7 49.1
58 77.4 63.0 94.4





#3

n-Nitrosodimethylamine

Concen: 1.667 ng

RT: 3.625 min Scan# 111

Delta R.T. -0.007 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

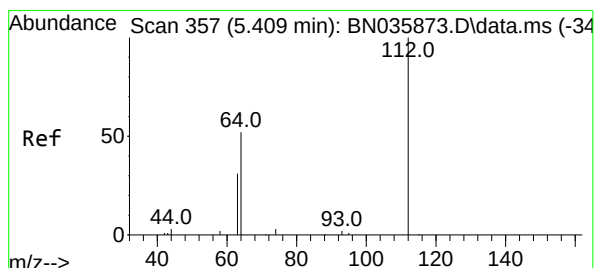
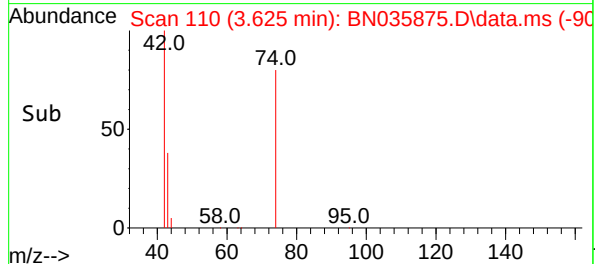
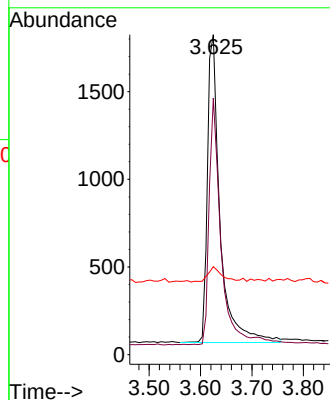
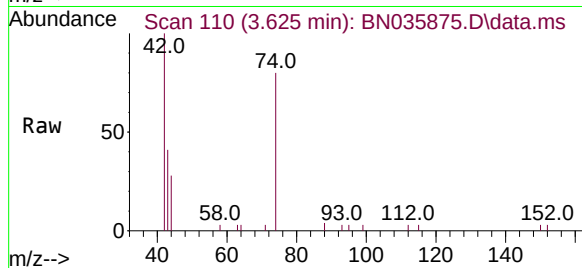
Tgt Ion: 42 Resp: 3002

Ion Ratio Lower Upper

42 100

74 75.3 62.2 93.2

44 5.5 7.1 10.7#



#4

2-Fluorophenol

Concen: 1.625 ng

RT: 5.409 min Scan# 357

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

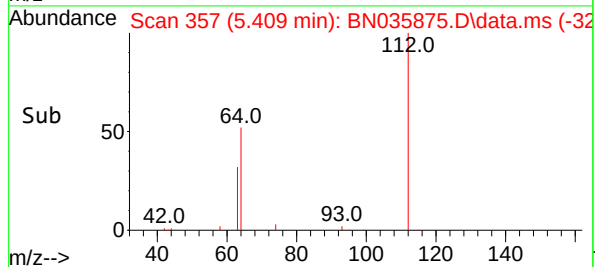
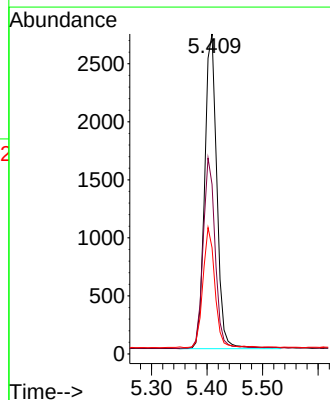
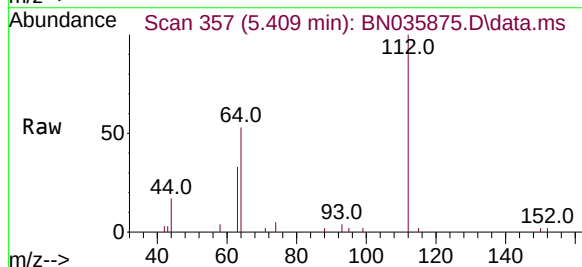
Tgt Ion: 112 Resp: 4142

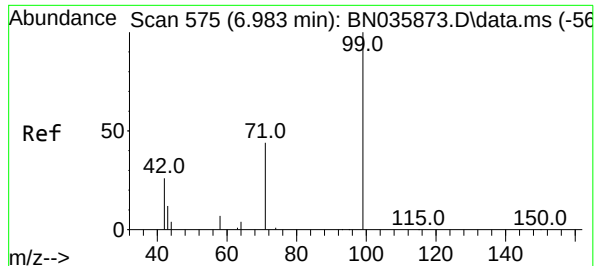
Ion Ratio Lower Upper

112 100

64 60.1 48.2 72.2

63 37.0 30.0 45.0

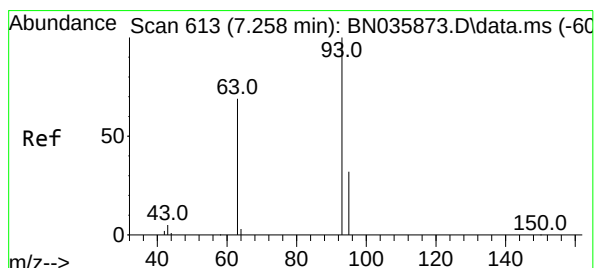
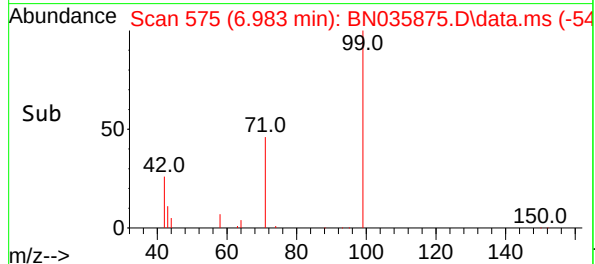
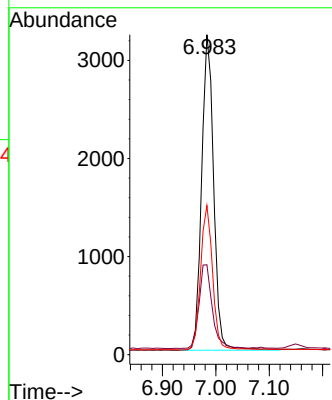
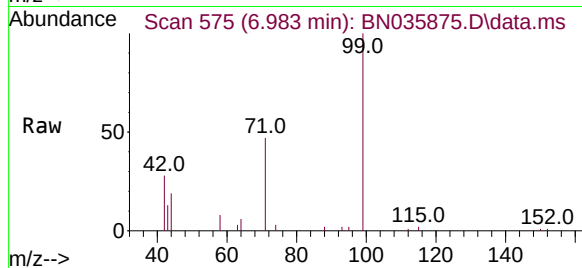




#5
Phenol-d6
Concen: 1.595 ng
RT: 6.983 min Scan# 575
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

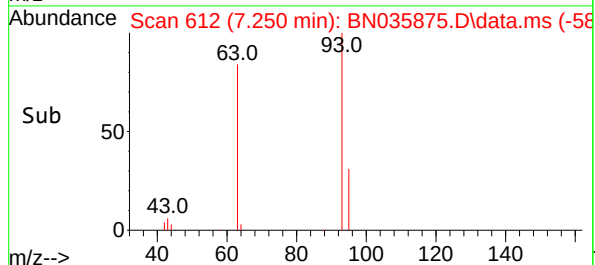
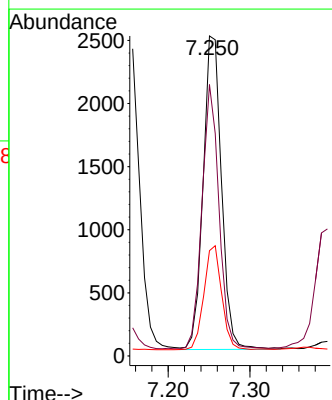
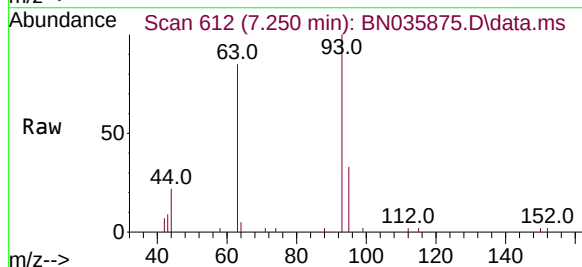
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

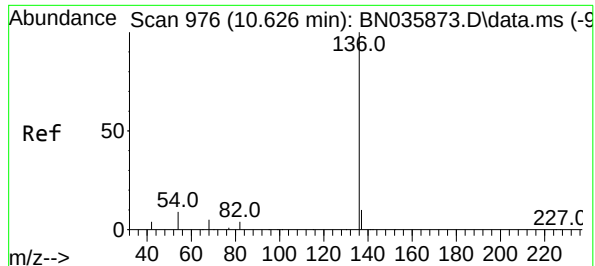
Tgt Ion	Ratio	Lower	Upper
99	100		
42	29.5	23.5	35.3
71	45.9	35.5	53.3



#6
bis(2-Chloroethyl)ether
Concen: 1.617 ng
RT: 7.250 min Scan# 612
Delta R.T. -0.007 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

Tgt Ion	Ratio	Lower	Upper
93	100		
63	77.8	62.0	93.0
95	32.1	25.5	38.3

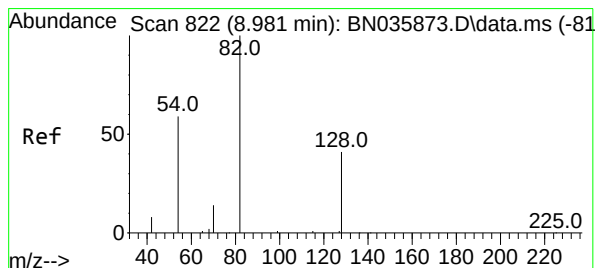
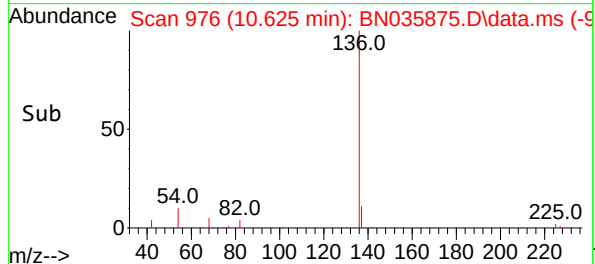
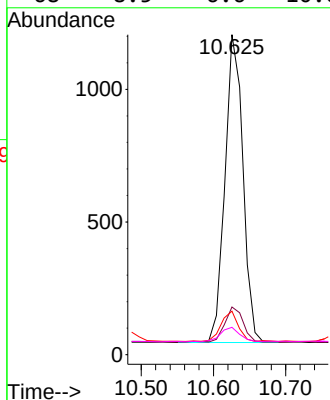
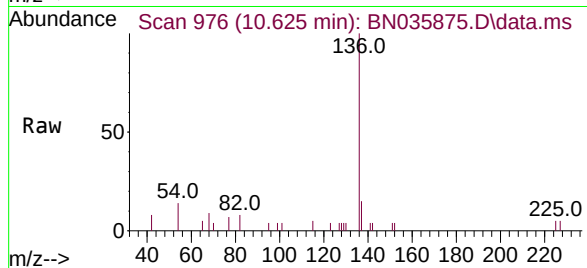




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.625 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

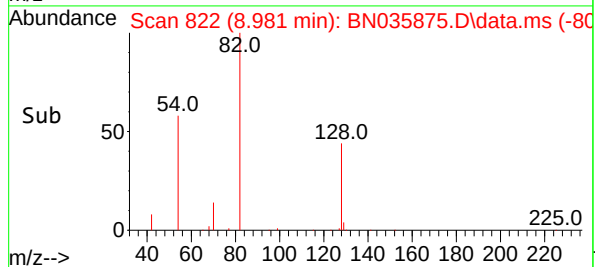
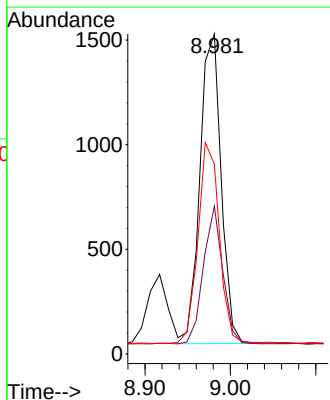
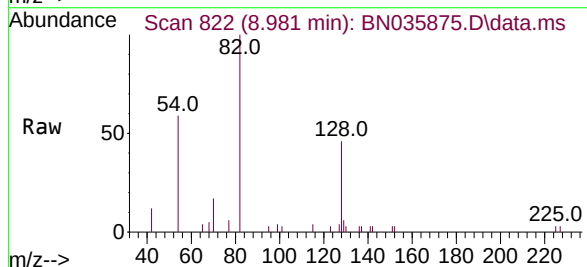
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

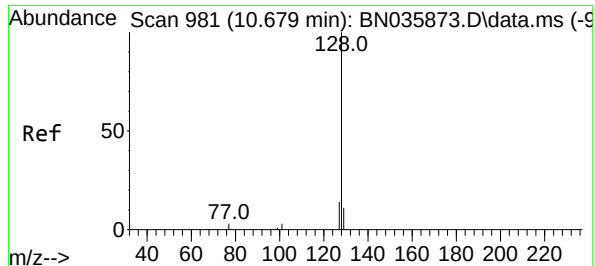
Tgt Ion:	136	Resp:	2002
Ion	Ratio	Lower	Upper
136	100		
137	14.9	10.6	15.8
54	13.6	9.8	14.6
68	8.5	6.6	10.0



#8
Nitrobenzene-d5
Concen: 1.612 ng
RT: 8.981 min Scan# 822
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

Tgt Ion:	82	Resp:	2556
Ion	Ratio	Lower	Upper
82	100		
128	46.2	36.9	55.3
54	59.3	50.4	75.6





#9

Naphthalene

Concen: 1.663 ng

RT: 10.679 min Scan# 981

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

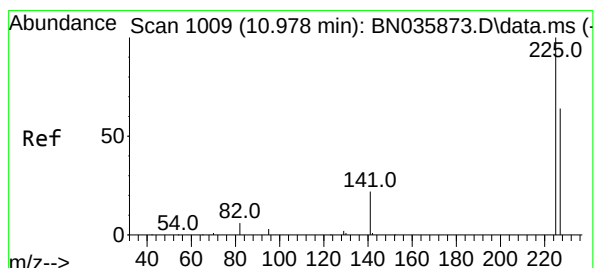
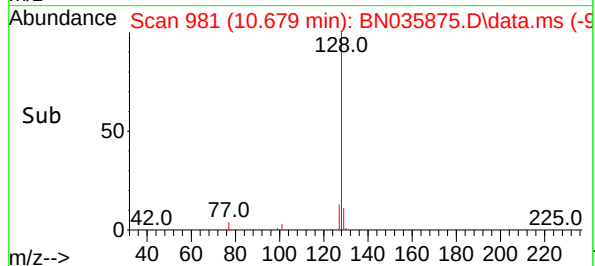
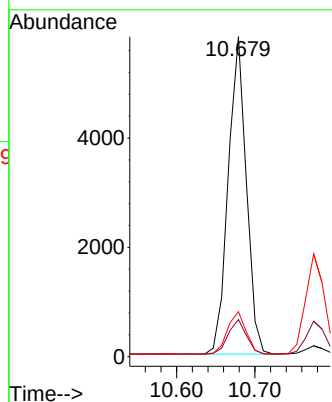
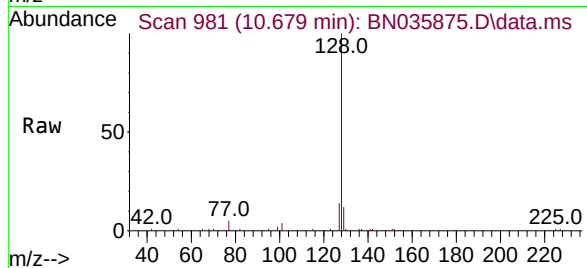
Tgt Ion:128 Resp: 9344

Ion Ratio Lower Upper

128 100

129 11.6 10.6 16.0

127 14.1 12.8 19.2



#10

Hexachlorobutadiene

Concen: 1.678 ng

RT: 10.978 min Scan# 1009

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

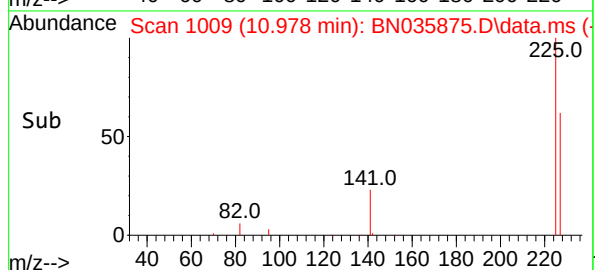
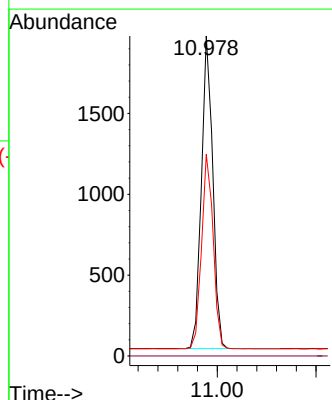
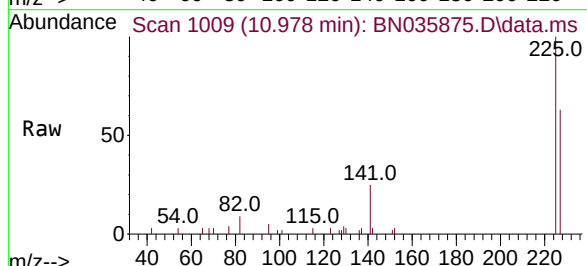
Tgt Ion:225 Resp: 3062

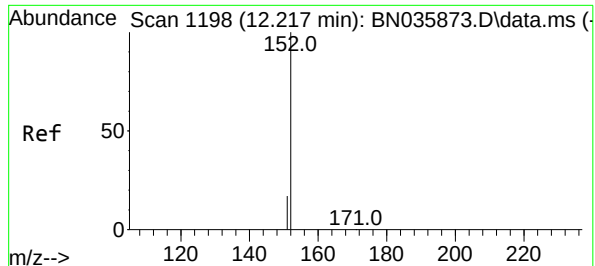
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.7 51.5 77.3

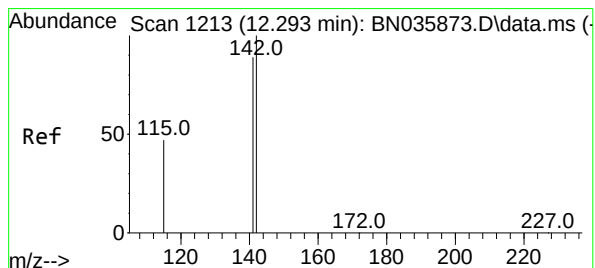
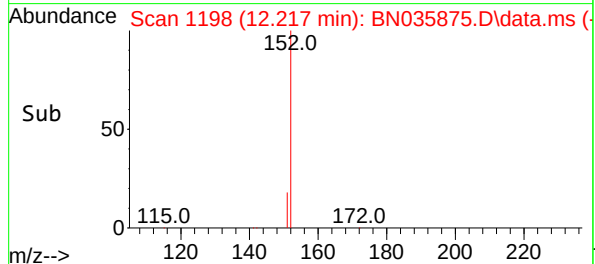
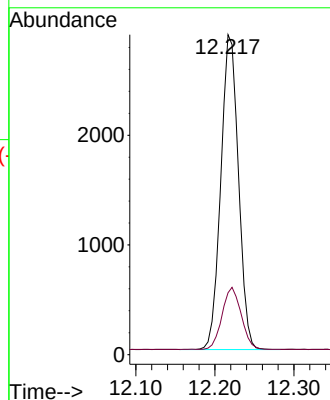
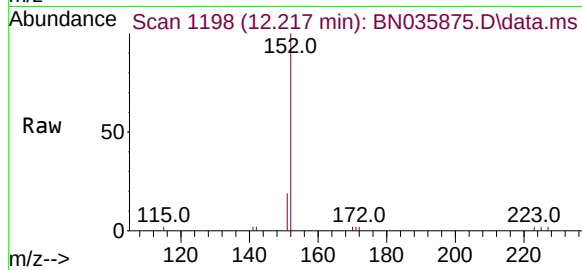




#11
2-Methylnaphthalene-d10
Concen: 1.662 ng
RT: 12.217 min Scan# 1198
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

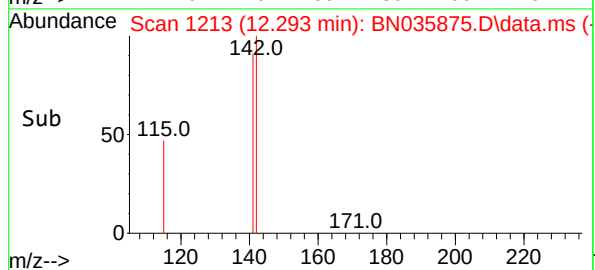
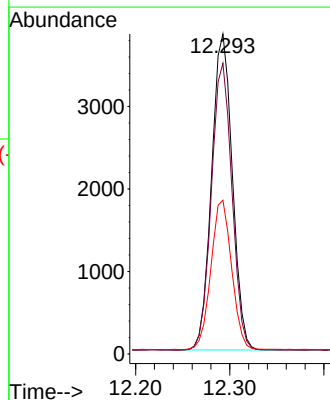
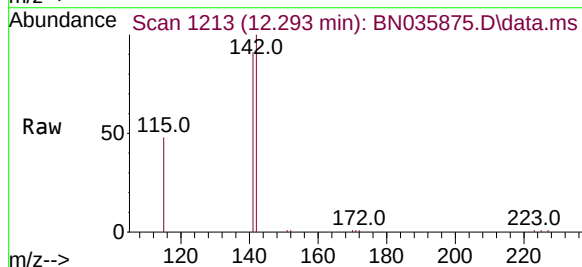
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

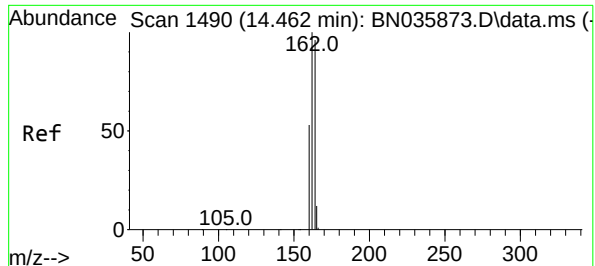
Tgt Ion:152 Resp: 4454
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6



#12
2-Methylnaphthalene
Concen: 1.682 ng
RT: 12.293 min Scan# 1213
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

Tgt Ion:142 Resp: 5850
Ion Ratio Lower Upper
142 100
141 90.9 71.9 107.9
115 48.1 39.6 59.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.462 min Scan# 1490

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

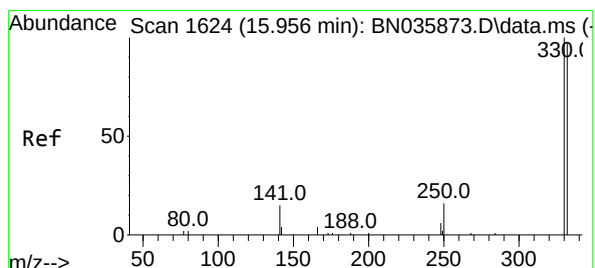
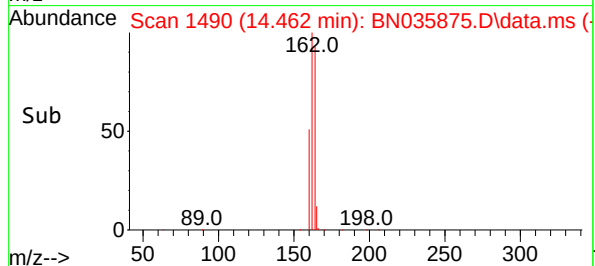
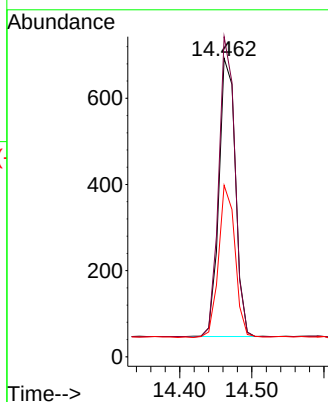
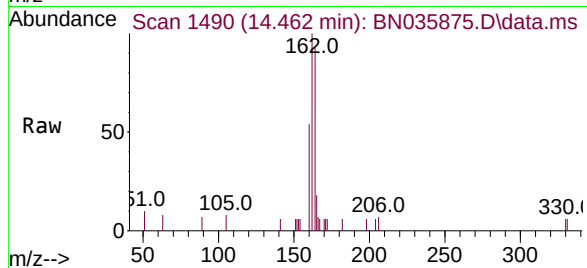
Tgt Ion:164 Resp: 1024

Ion Ratio Lower Upper

164 100

162 107.2 83.1 124.7

160 57.4 46.0 69.0



#14

2,4,6-Tribromophenol

Concen: 1.723 ng

RT: 15.956 min Scan# 1624

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

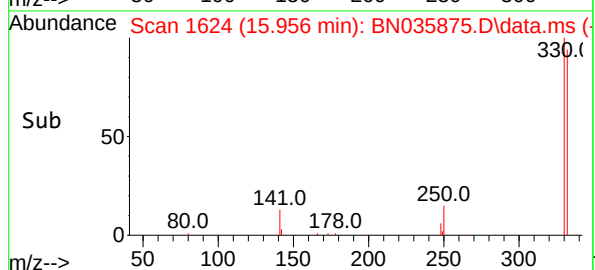
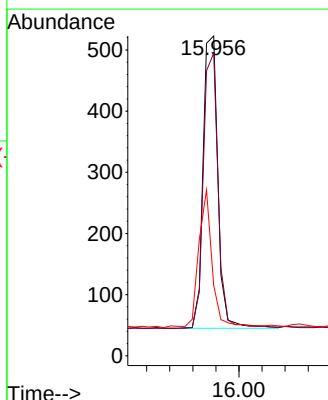
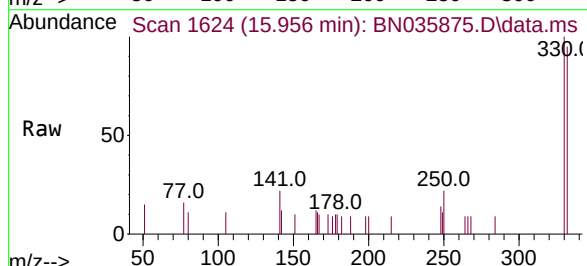
Tgt Ion:330 Resp: 847

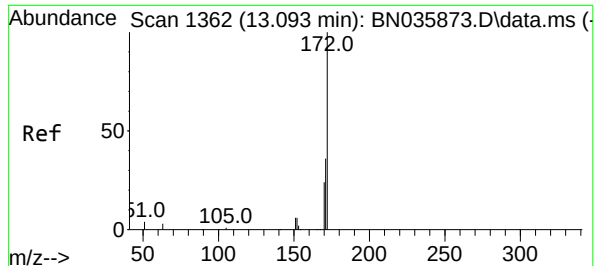
Ion Ratio Lower Upper

330 100

332 94.3 77.2 115.8

141 43.6 31.6 47.4





#15

2-Fluorobiphenyl

Concen: 1.661 ng

RT: 13.093 min Scan# 1362

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

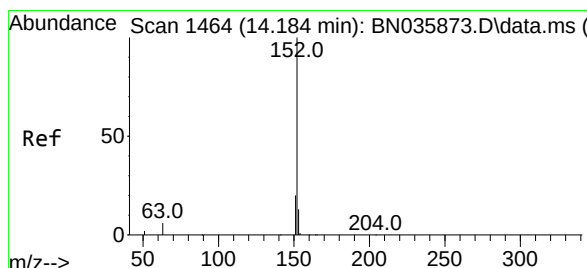
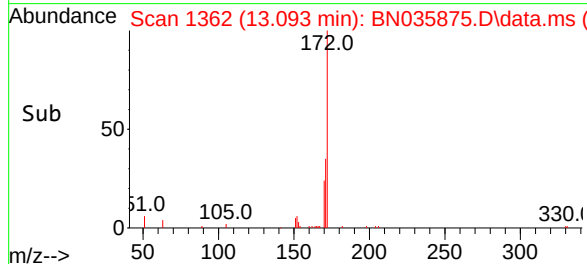
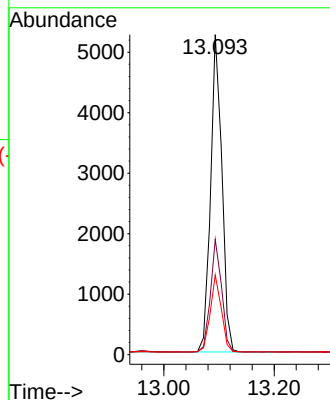
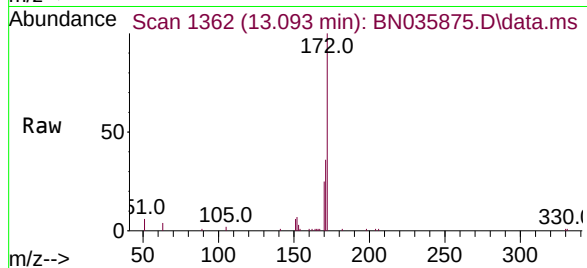
Tgt Ion:172 Resp: 7465

Ion Ratio Lower Upper

172 100

171 36.0 30.5 45.7

170 24.9 20.8 31.2



#16

Acenaphthylene

Concen: 1.666 ng

RT: 14.184 min Scan# 1464

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

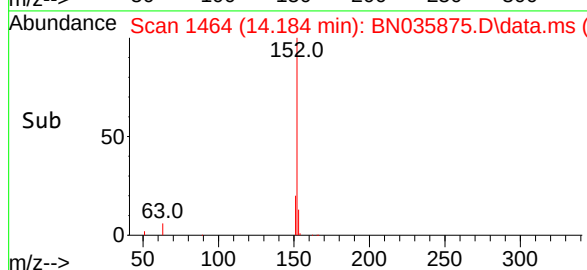
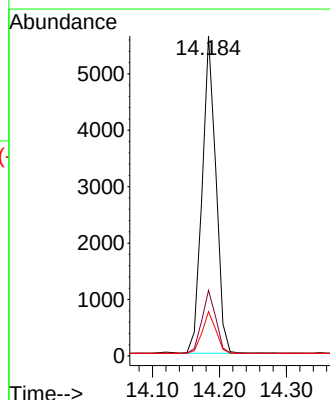
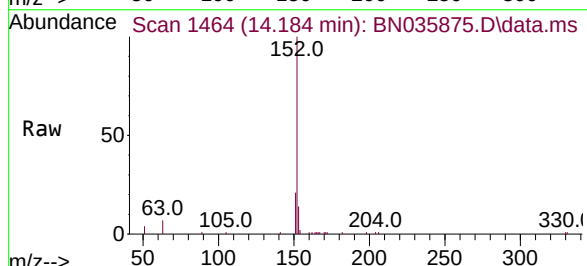
Tgt Ion:152 Resp: 8035

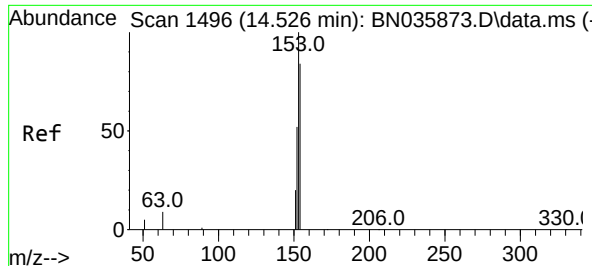
Ion Ratio Lower Upper

152 100

151 20.2 16.3 24.5

153 13.1 10.6 15.8

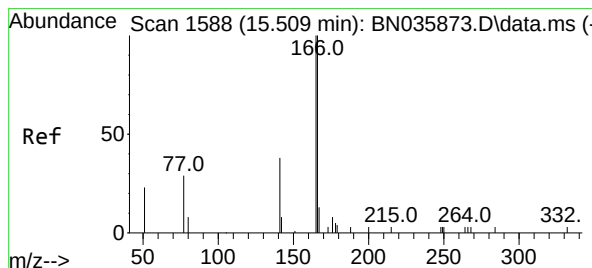
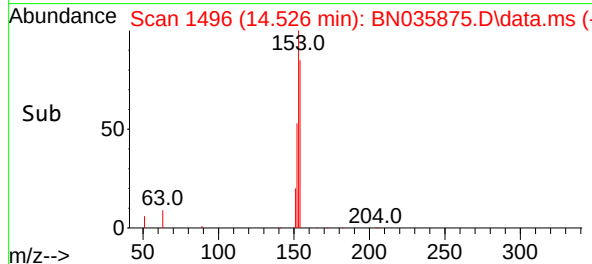
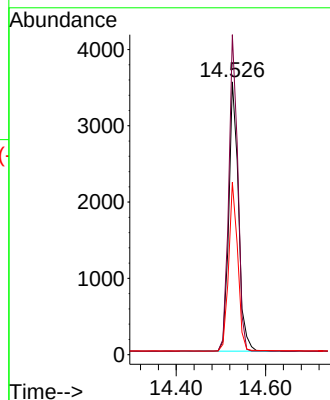
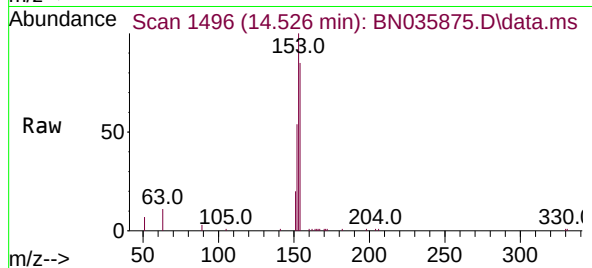




#17
Acenaphthene
Concen: 1.684 ng
RT: 14.526 min Scan# 1496
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

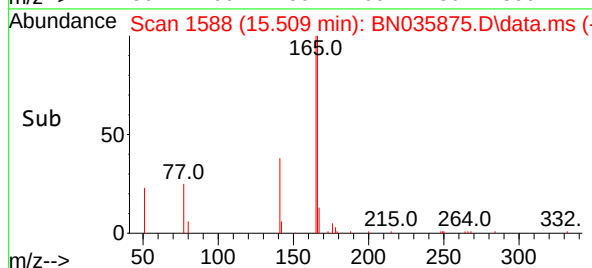
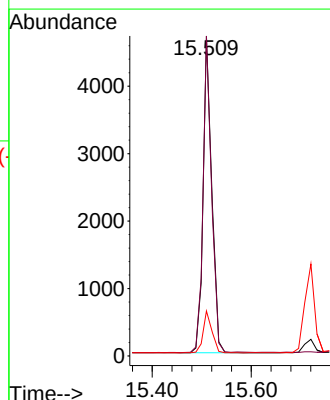
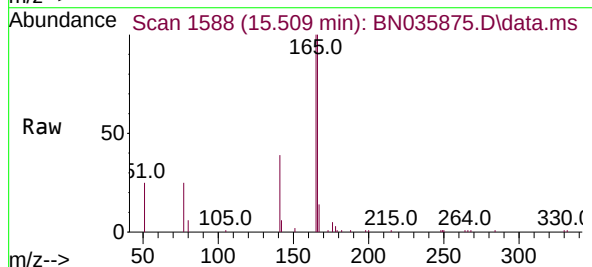
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

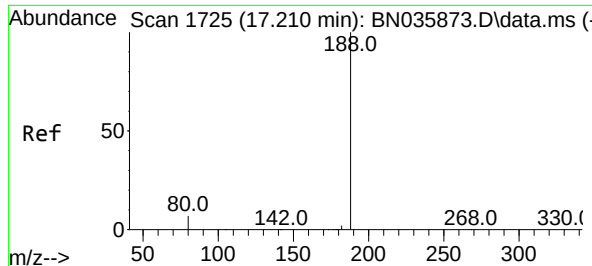
Tgt Ion:154 Resp: 5325
Ion Ratio Lower Upper
154 100
153 109.7 90.5 135.7
152 59.1 48.6 73.0



#18
Fluorene
Concen: 1.671 ng
RT: 15.509 min Scan# 1588
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

Tgt Ion:166 Resp: 5812
Ion Ratio Lower Upper
166 100
165 98.0 80.6 120.8
167 13.1 11.4 17.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.210 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

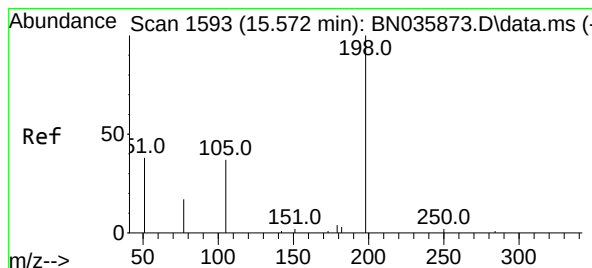
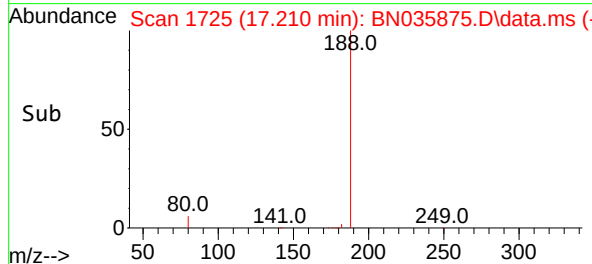
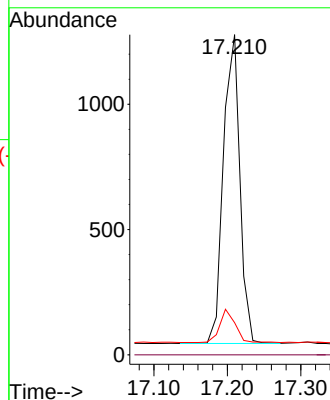
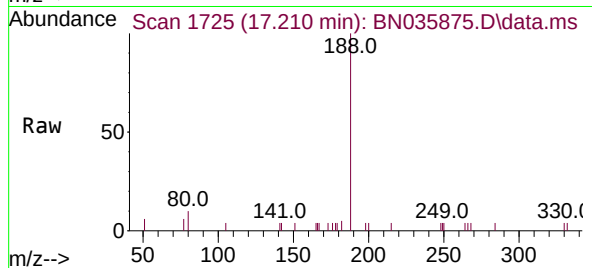
Tgt Ion:188 Resp: 1916

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.0 7.3 10.9



#20

4,6-Dinitro-2-methylphenol

Concen: 1.758 ng

RT: 15.571 min Scan# 1593

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

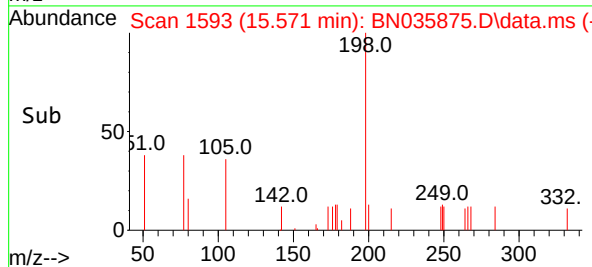
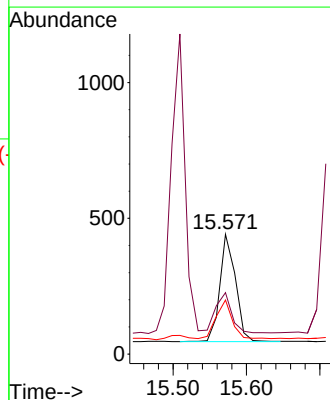
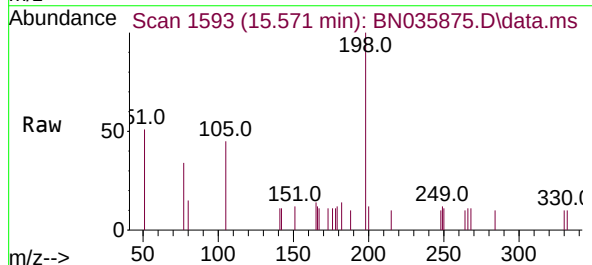
Tgt Ion:198 Resp: 585

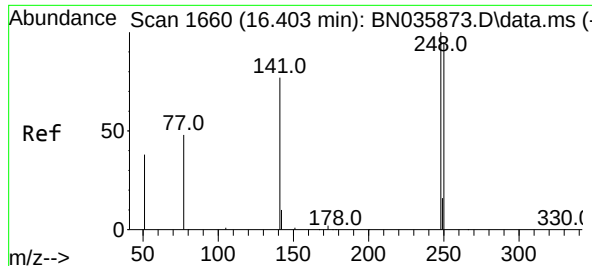
Ion Ratio Lower Upper

198 100

51 51.2 64.3 96.5#

105 45.1 50.0 75.0#

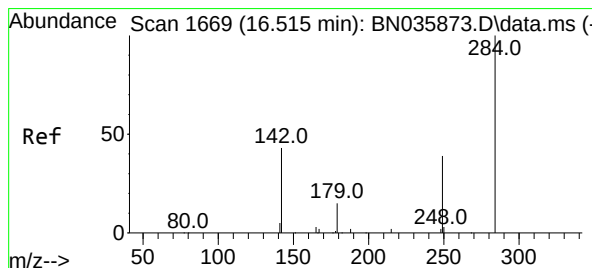
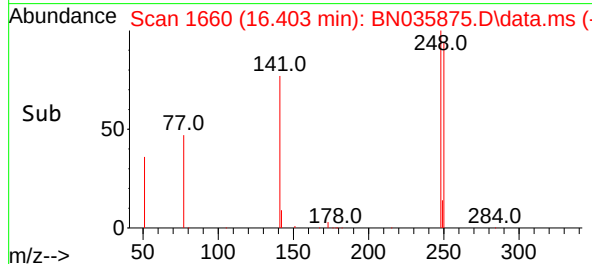
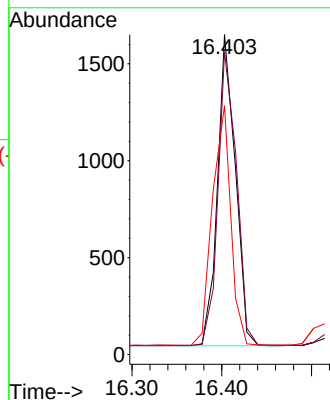
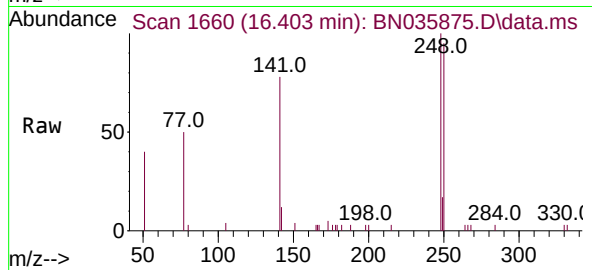




#21
4-Bromophenyl-phenylether
Concen: 1.689 ng
RT: 16.403 min Scan# 1660
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

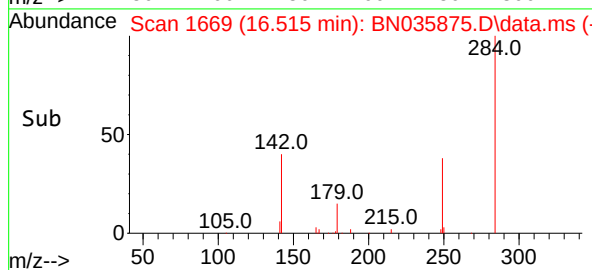
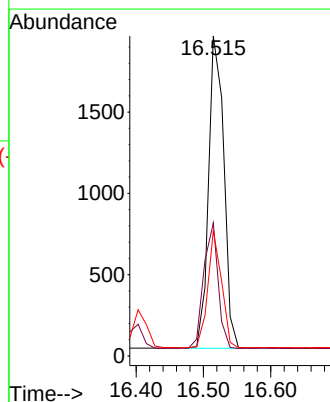
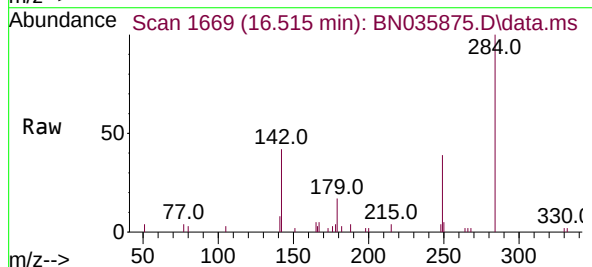
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

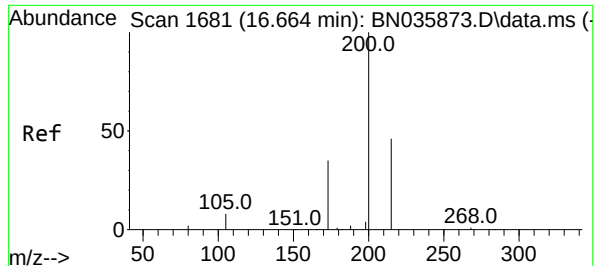
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.7	76.8	115.2
141	77.8	63.6	95.4



#22
Hexachlorobenzene
Concen: 1.687 ng
RT: 16.515 min Scan# 1669
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.1	31.4	47.0
249	33.9	27.8	41.8

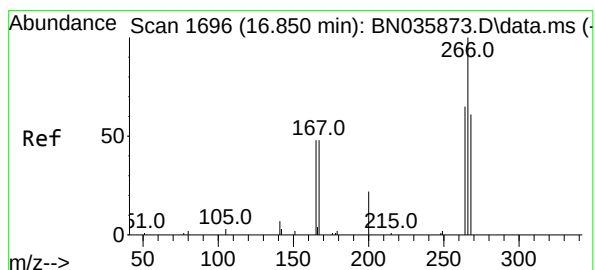
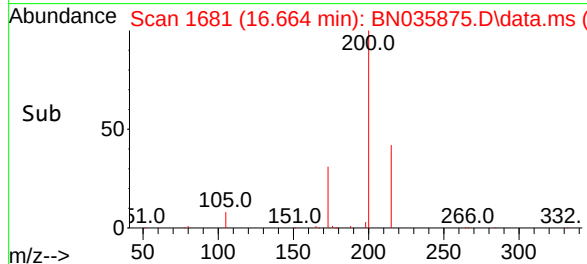
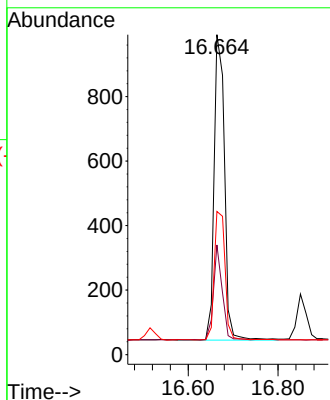
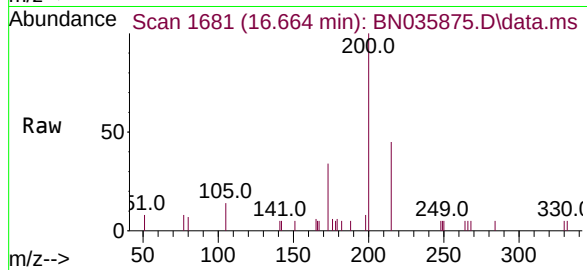




#23
Atrazine
Concen: 1.720 ng
RT: 16.664 min Scan# 1681
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

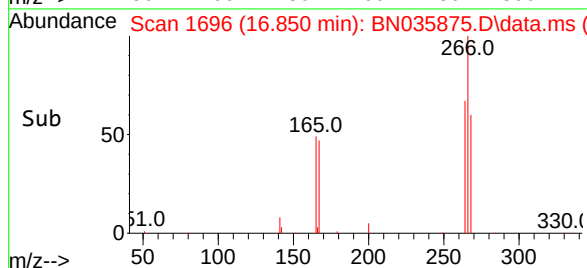
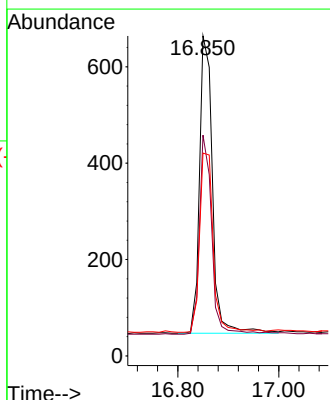
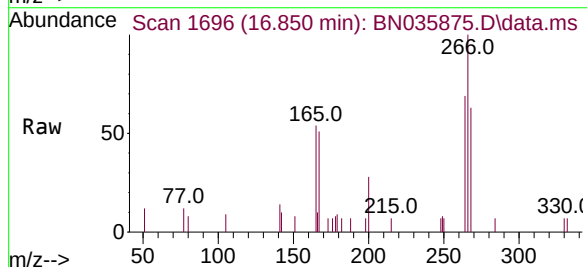
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

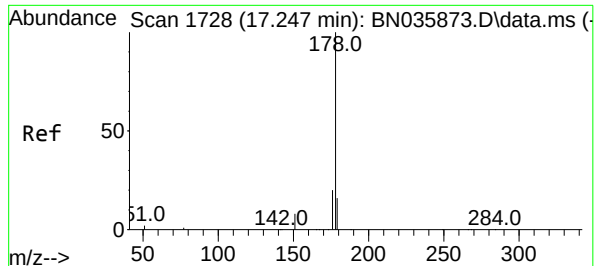
Tgt Ion:200 Resp: 1516
Ion Ratio Lower Upper
200 100
173 34.3 35.4 53.0#
215 44.8 42.4 63.6



#24
Pentachlorophenol
Concen: 1.733 ng
RT: 16.850 min Scan# 1696
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

Tgt Ion:266 Resp: 1099
Ion Ratio Lower Upper
266 100
264 63.3 49.9 74.9
268 64.0 50.2 75.2

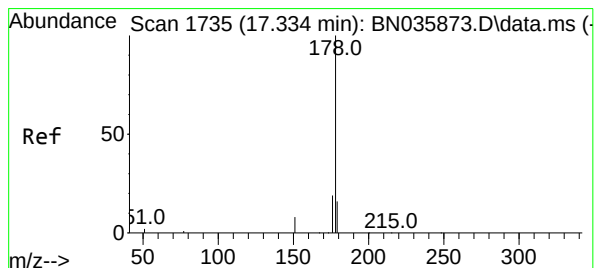
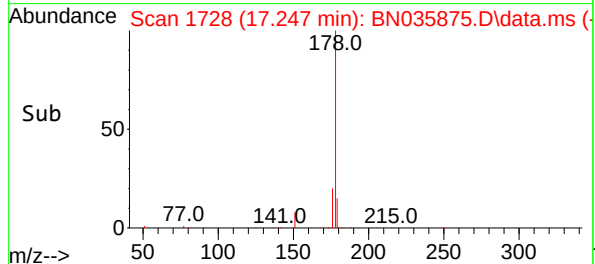
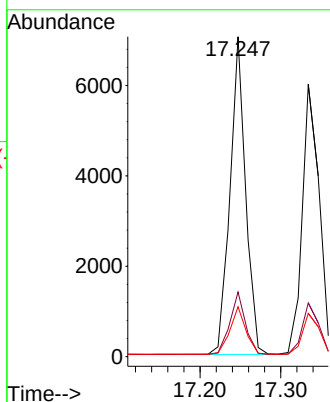
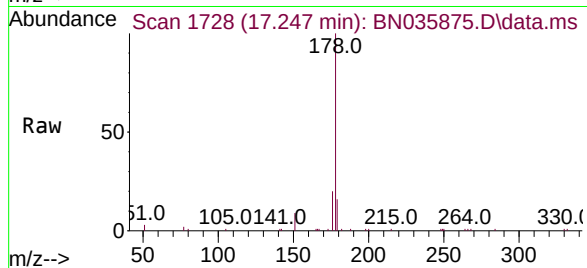




#25
Phenanthrene
Concen: 1.683 ng
RT: 17.247 min Scan# 1728
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

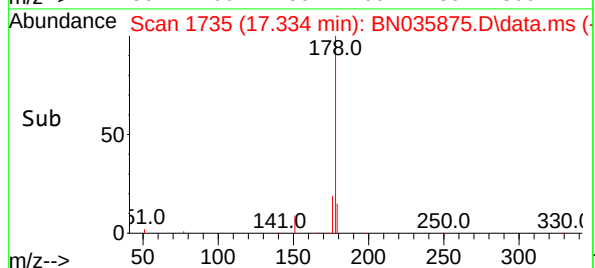
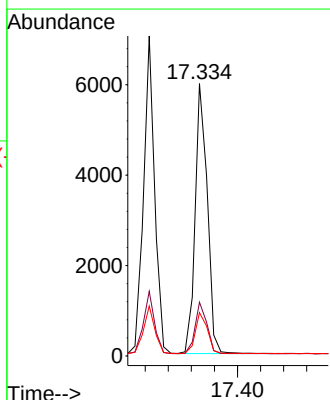
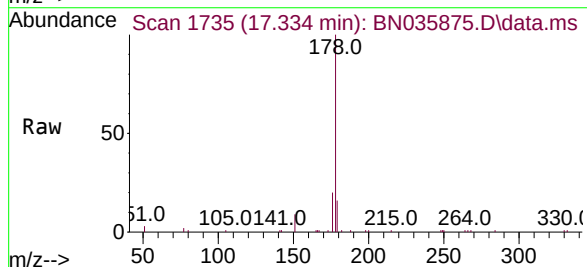
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

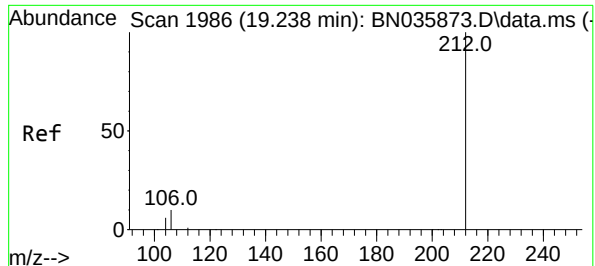
Tgt Ion:178 Resp: 9410
Ion Ratio Lower Upper
178 100
176 19.5 15.9 23.9
179 15.2 12.9 19.3



#26
Anthracene
Concen: 1.713 ng
RT: 17.334 min Scan# 1735
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

Tgt Ion:178 Resp: 8714
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.3 13.0 19.6





#27

Fluoranthene-d10

Concen: 1.657 ng

RT: 19.238 min Scan# 1986

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

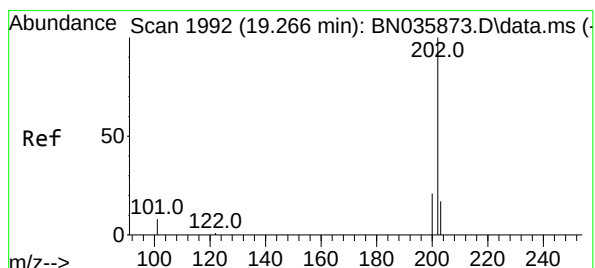
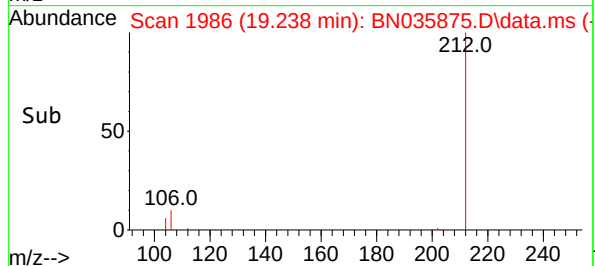
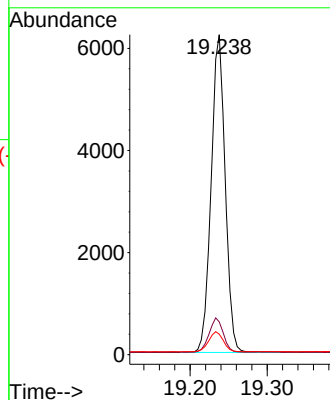
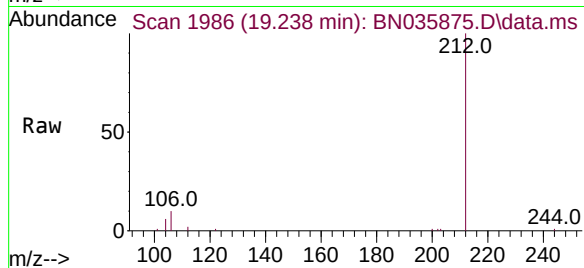
Tgt Ion:212 Resp: 7879

Ion Ratio Lower Upper

212 100

106 10.8 9.0 13.6

104 6.6 5.4 8.2



#28

Fluoranthene

Concen: 1.694 ng

RT: 19.266 min Scan# 1992

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

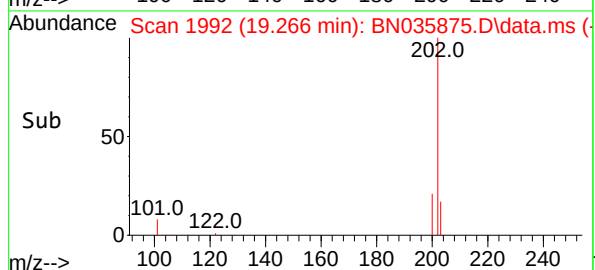
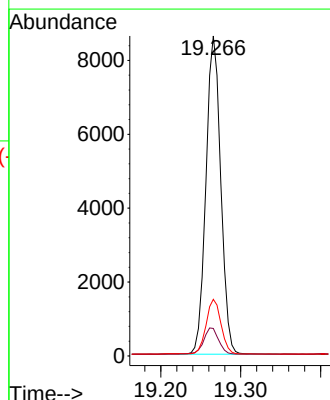
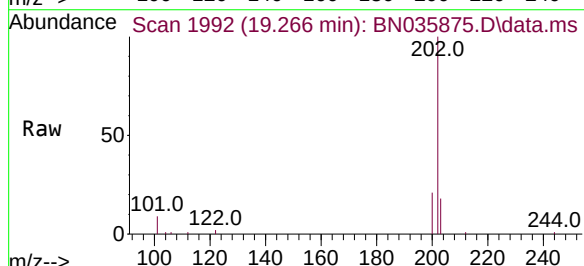
Tgt Ion:202 Resp: 11040

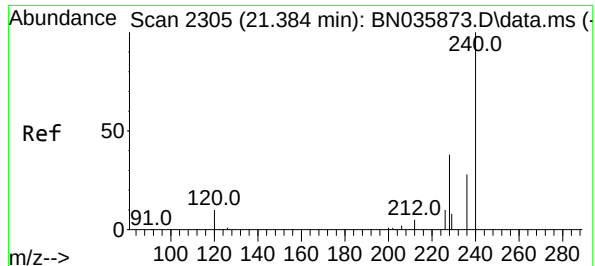
Ion Ratio Lower Upper

202 100

101 8.5 7.2 10.8

203 17.3 13.9 20.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.384 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

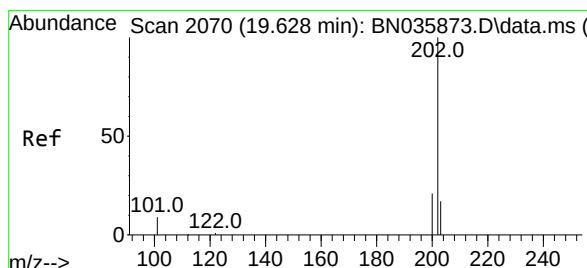
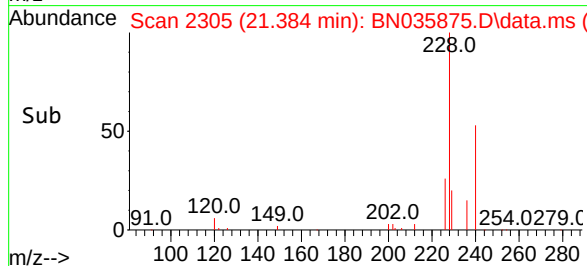
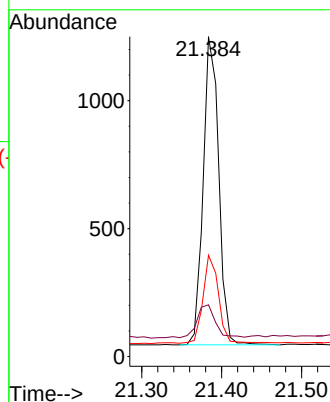
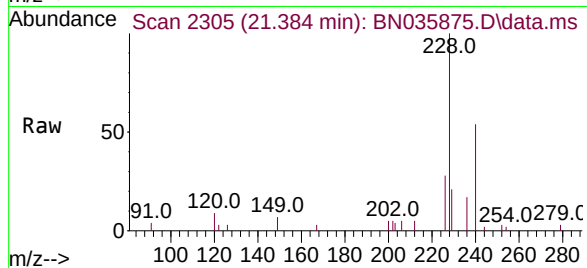
Tgt Ion:240 Resp: 1622

Ion Ratio Lower Upper

240 100

120 16.2 11.1 16.7

236 31.7 24.6 36.8



#30

Pyrene

Concen: 1.686 ng

RT: 19.628 min Scan# 2070

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

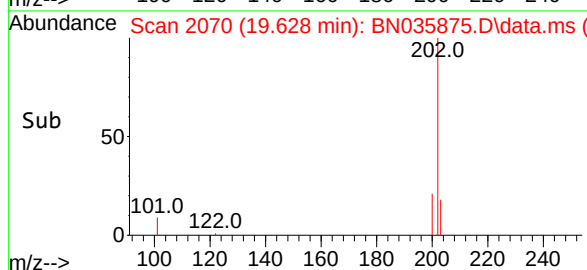
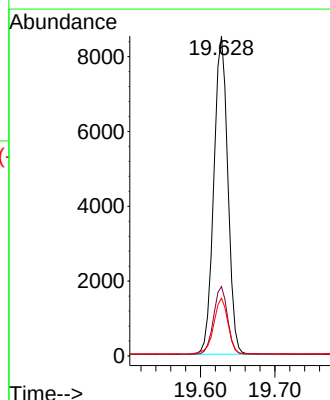
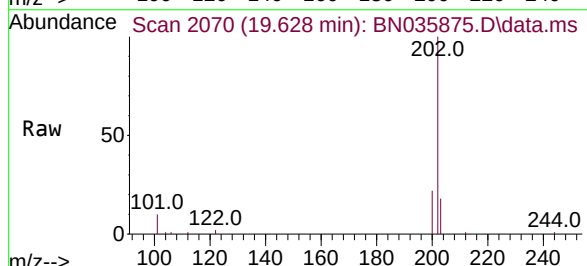
Tgt Ion:202 Resp: 11104

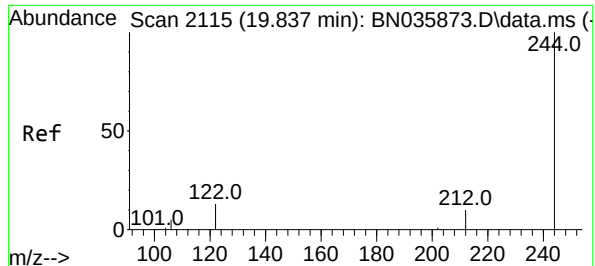
Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.6

203 17.8 14.6 22.0

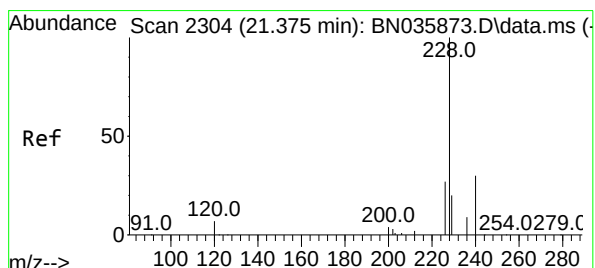
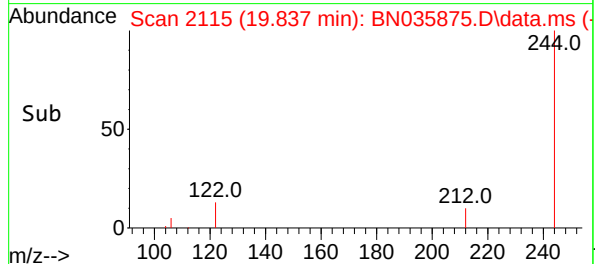
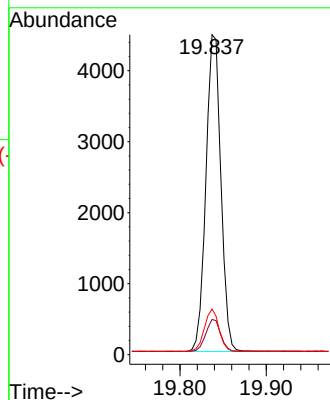
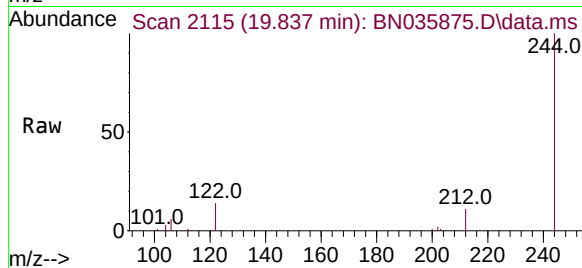




#31
Terphenyl-d14
Concen: 1.662 ng
RT: 19.837 min Scan# 2115
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

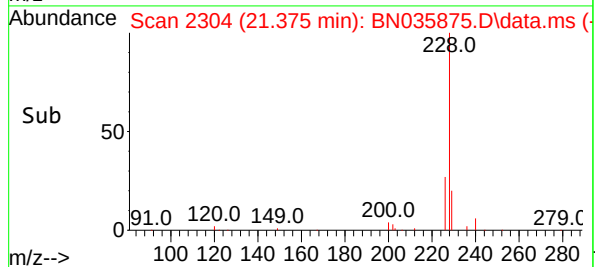
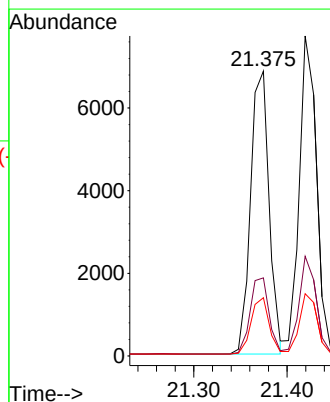
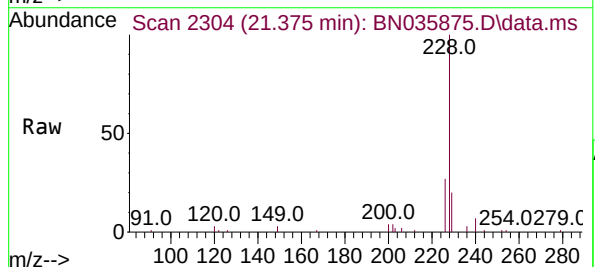
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

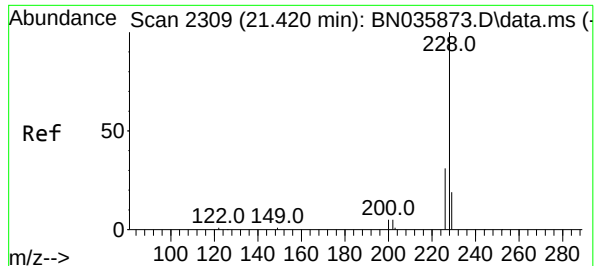
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.0	10.1	15.1
122	14.3	12.2	18.4



#32
Benzo(a)anthracene
Concen: 1.659 ng
RT: 21.375 min Scan# 2304
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.7	34.1
229	20.4	17.1	25.7





#33

Chrysene

Concen: 1.672 ng

RT: 21.419 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

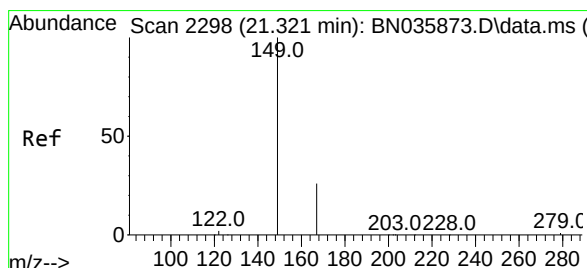
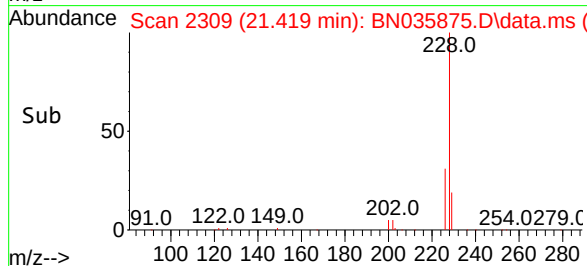
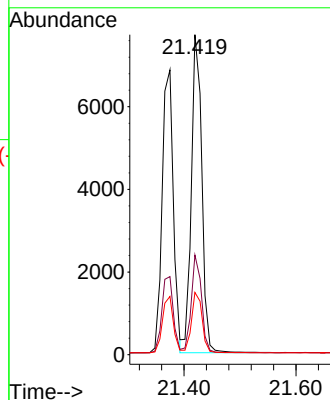
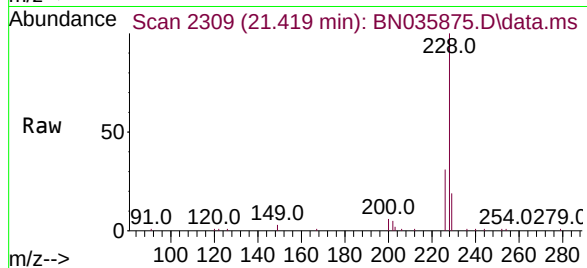
Tgt Ion:228 Resp: 10000

Ion Ratio Lower Upper

228 100

226 31.1 25.2 37.8

229 19.5 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.586 ng

RT: 21.330 min Scan# 2299

Delta R.T. 0.009 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

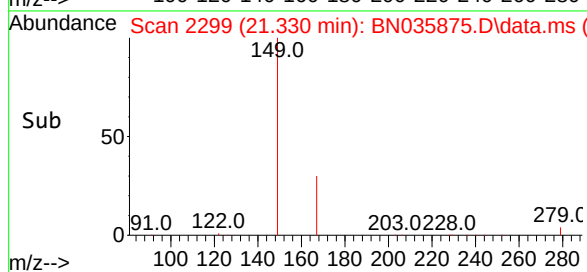
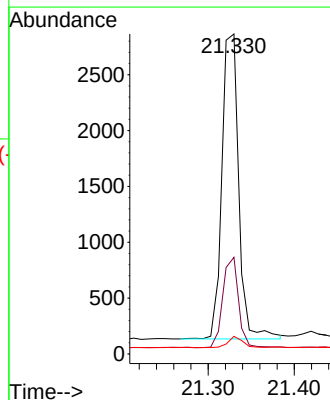
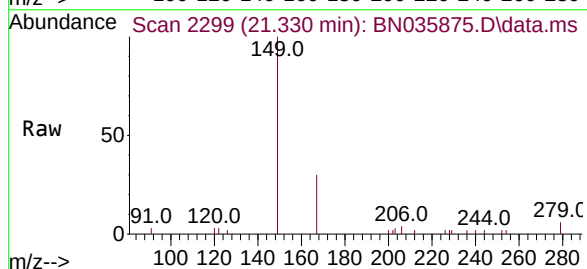
Tgt Ion:149 Resp: 3691

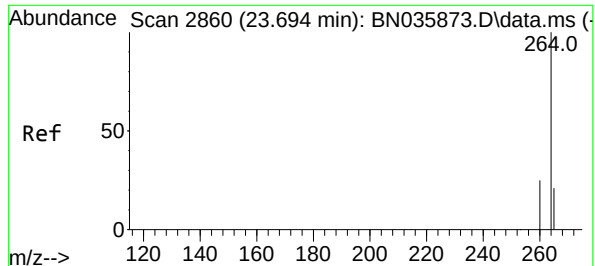
Ion Ratio Lower Upper

149 100

167 27.8 21.4 32.0

279 3.2 3.0 4.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.691 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

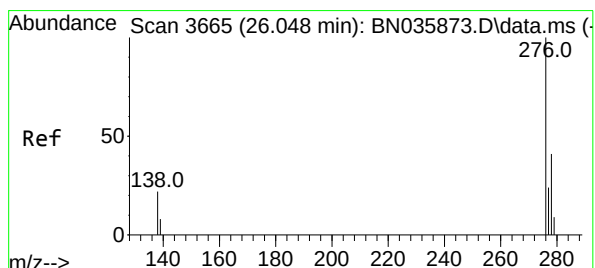
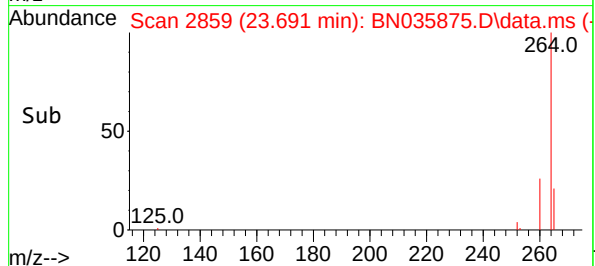
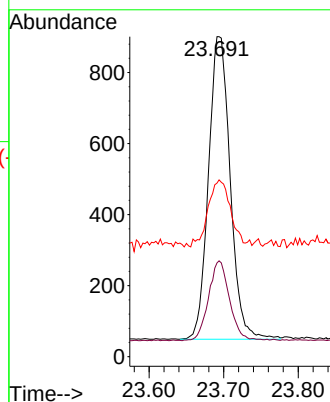
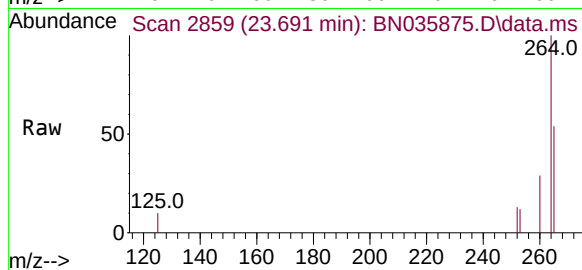
Tgt Ion:264 Resp: 1727

Ion Ratio Lower Upper

264 100

260 29.3 21.7 32.5

265 54.3 33.9 50.9#



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.721 ng

RT: 26.056 min Scan# 3668

Delta R.T. 0.009 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

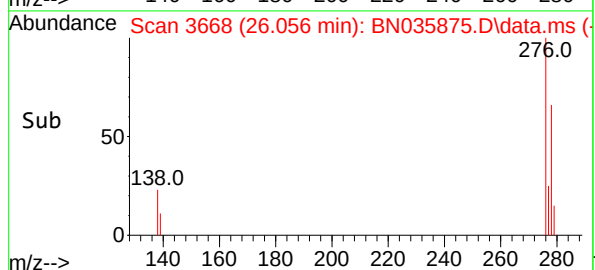
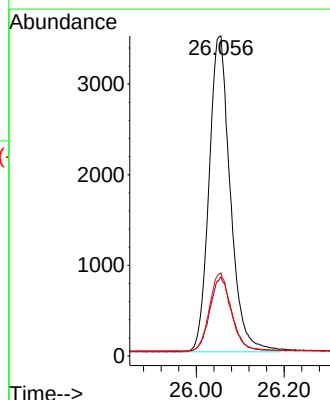
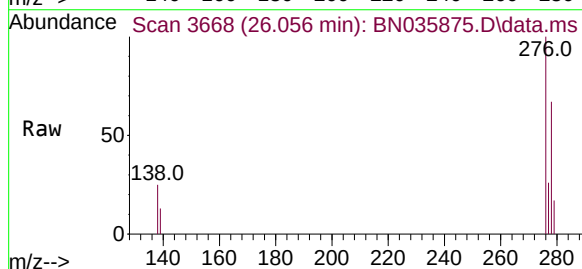
Tgt Ion:276 Resp: 11724

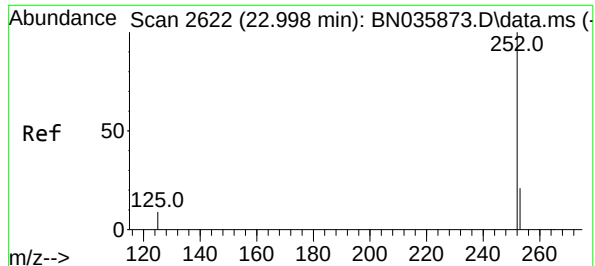
Ion Ratio Lower Upper

276 100

138 24.1 18.9 28.3

277 24.9 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 1.707 ng

RT: 22.998 min Scan# 2622

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

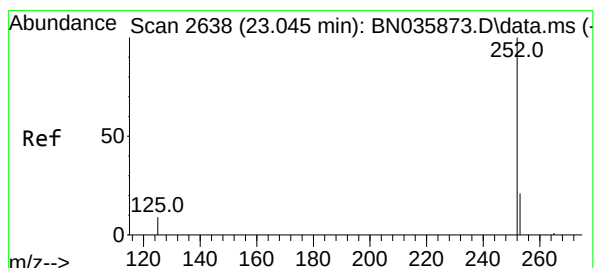
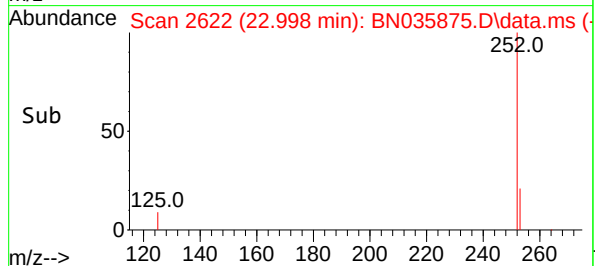
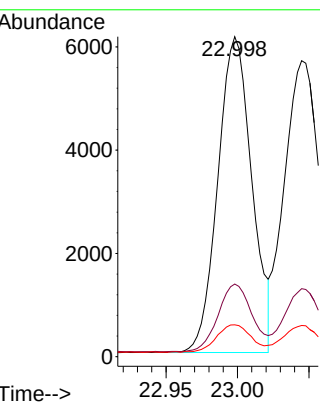
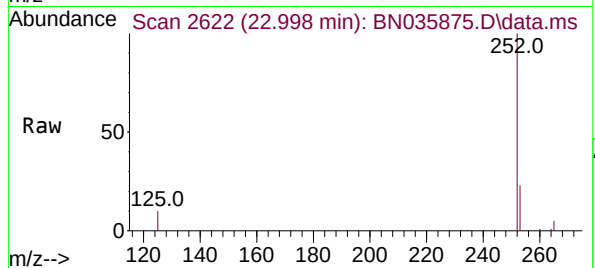
Tgt Ion:252 Resp: 10128

Ion Ratio Lower Upper

252 100

253 22.7 20.1 30.1

125 10.0 9.9 14.9



#38

Benzo(k)fluoranthene

Concen: 1.728 ng

RT: 23.045 min Scan# 2638

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

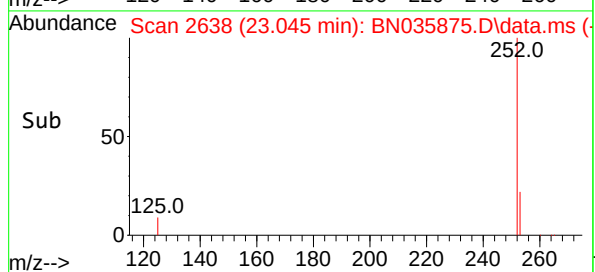
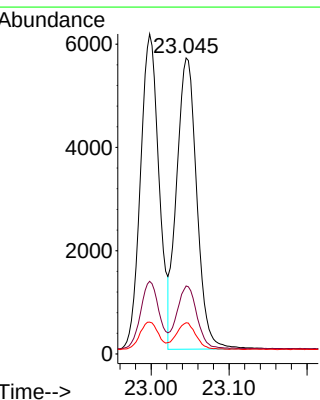
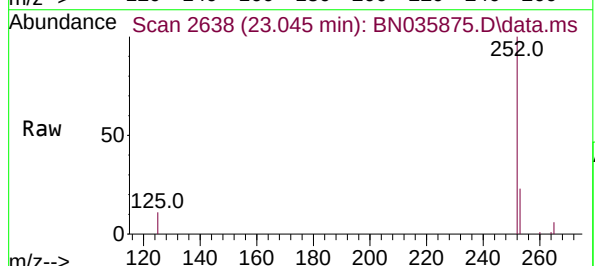
Tgt Ion:252 Resp: 10151

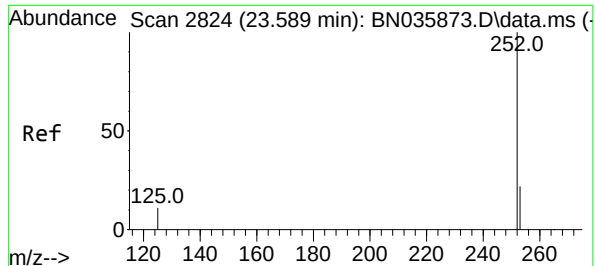
Ion Ratio Lower Upper

252 100

253 23.0 20.5 30.7

125 10.6 10.6 16.0#





#39

Benzo(a)pyrene

Concen: 1.709 ng

RT: 23.592 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

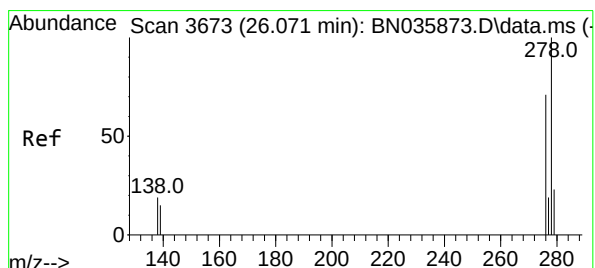
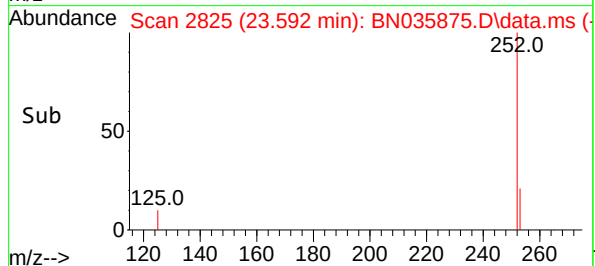
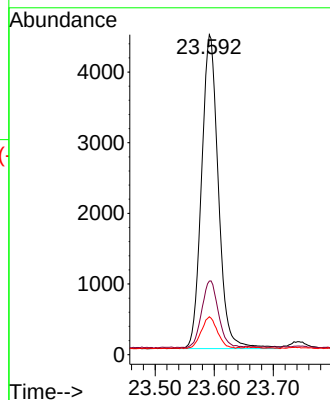
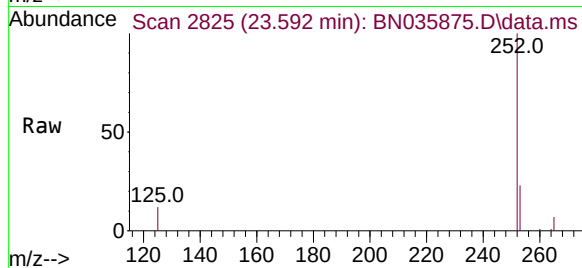
Tgt Ion:252 Resp: 8775

Ion Ratio Lower Upper

252 100

253 23.0 21.5 32.3

125 11.9 12.6 19.0#



#40

Dibenzo(a,h)anthracene

Concen: 1.738 ng

RT: 26.071 min Scan# 3673

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

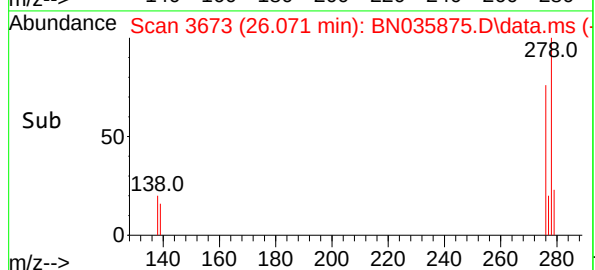
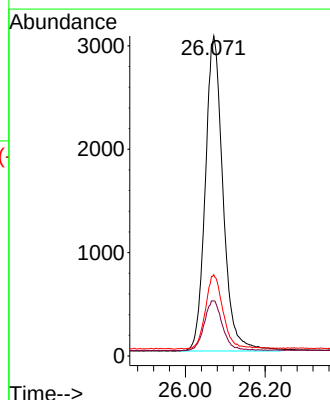
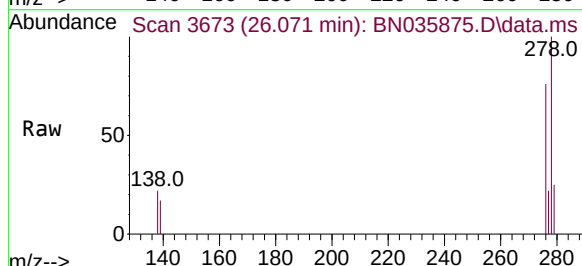
Tgt Ion:278 Resp: 9415

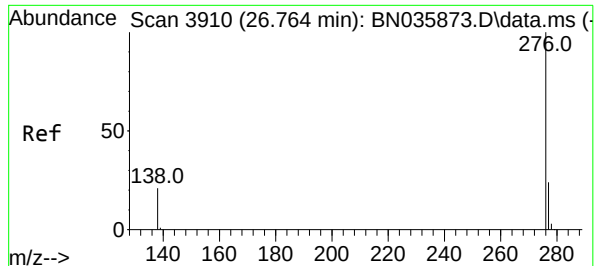
Ion Ratio Lower Upper

278 100

139 17.2 15.9 23.9

279 25.4 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 1.699 ng

RT: 26.764 min Scan# 3910

Delta R.T. -0.000 min

Lab File: BN035875.D

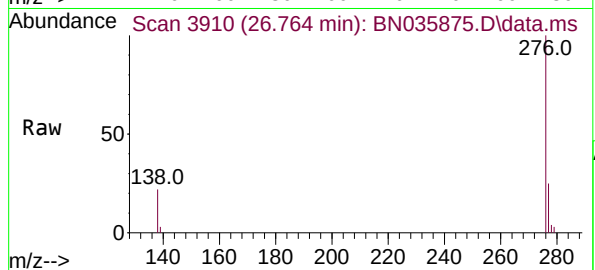
Acq: 02 Jan 2025 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



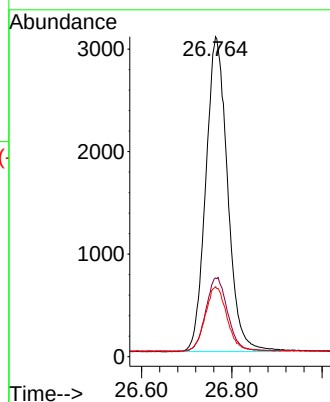
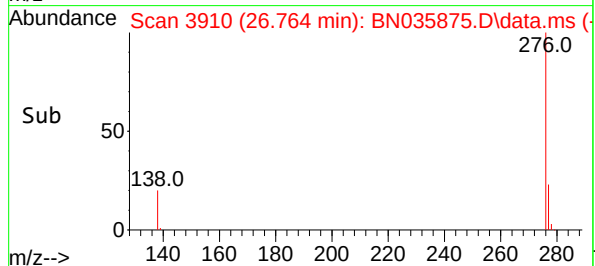
Tgt Ion:276 Resp: 10294

Ion Ratio Lower Upper

276 100

277 24.6 22.8 34.2

138 21.8 20.1 30.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
 Data File : BN035876.D
 Acq On : 02 Jan 2025 14:28
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Jan 02 15:51:07 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

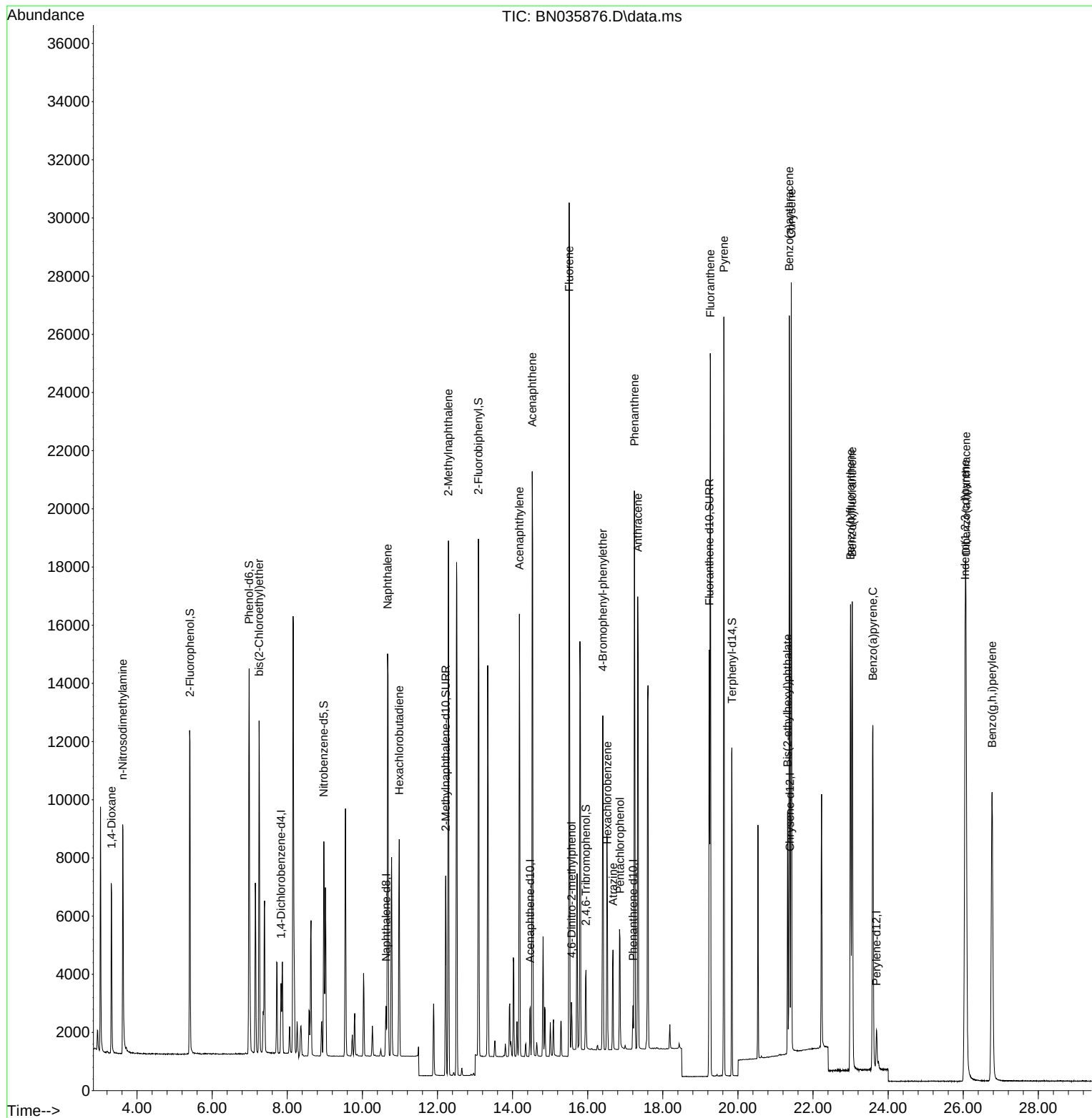
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.836	152	1084	0.400	ng	0.00
7) Naphthalene-d8	10.629	136	2065	0.400	ng	0.00
13) Acenaphthene-d10	14.470	164	1017	0.400	ng	0.00
19) Phenanthrene-d10	17.208	188	1903	0.400	ng	0.00
29) Chrysene-d12	21.386	240	1710	0.400	ng	0.00
35) Perylene-d12	23.691	264	1808	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.409	112	8292	3.118	ng	0.00
5) Phenol-d6	6.983	99	10087	3.054	ng	0.00
8) Nitrobenzene-d5	8.974	82	5234	3.201	ng	0.00
11) 2-Methylnaphthalene-d10	12.220	152	8654	3.130	ng	0.00
14) 2,4,6-Tribromophenol	15.954	330	1714	3.510	ng	0.00
15) 2-Fluorobiphenyl	13.091	172	14471	3.243	ng	0.00
27) Fluoranthene-d10	19.236	212	15378	3.255	ng	0.00
31) Terphenyl-d14	19.840	244	10611	3.114	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.322	88	3270	3.037	ng	97
3) n-Nitrosodimethylamine	3.618	42	5985	3.186	ng	# 95
6) bis(2-Chloroethyl)ether	7.251	93	7684	3.054	ng	100
9) Naphthalene	10.672	128	18395	3.173	ng	95
10) Hexachlorobutadiene	10.981	225	5988	3.182	ng	# 99
12) 2-Methylnaphthalene	12.291	142	11578	3.228	ng	99
16) Acenaphthylene	14.182	152	15847	3.309	ng	100
17) Acenaphthene	14.524	154	10376	3.304	ng	97
18) Fluorene	15.507	166	11752	3.402	ng	98
20) 4,6-Dinitro-2-methylph...	15.569	198	1163	3.519	ng	# 74
21) 4-Bromophenyl-phenylether	16.401	248	4303	3.298	ng	91
22) Hexachlorobenzene	16.525	284	5671	3.188	ng	99
23) Atrazine	16.674	200	2888	3.299	ng	# 78
24) Pentachlorophenol	16.860	266	2256	3.582	ng	99
25) Phenanthrene	17.245	178	18166	3.272	ng	99
26) Anthracene	17.332	178	17227	3.409	ng	98
28) Fluoranthene	19.268	202	22007	3.400	ng	99
30) Pyrene	19.626	202	22172	3.193	ng	99
32) Benzo(a)anthracene	21.368	228	19527	3.240	ng	98
33) Chrysene	21.422	228	20218	3.207	ng	98
34) Bis(2-ethylhexyl)phtha...	21.324	149	7099	2.894	ng	# 98
36) Indeno(1,2,3-cd)pyrene	26.050	276	24767	3.474	ng	99
37) Benzo(b)fluoranthene	22.998	252	20532	3.305	ng	# 93
38) Benzo(k)fluoranthene	23.045	252	20853	3.392	ng	# 92
39) Benzo(a)pyrene	23.591	252	17995	3.347	ng	# 90
40) Dibenzo(a,h)anthracene	26.073	278	19738	3.480	ng	92
41) Benzo(g,h,i)perylene	26.766	276	21709	3.423	ng	92

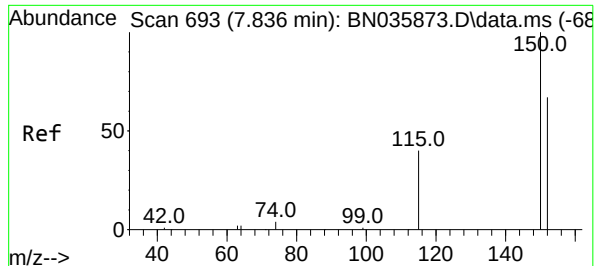
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035876.D
Acq On : 02 Jan 2025 14:28
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Jan 02 15:51:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

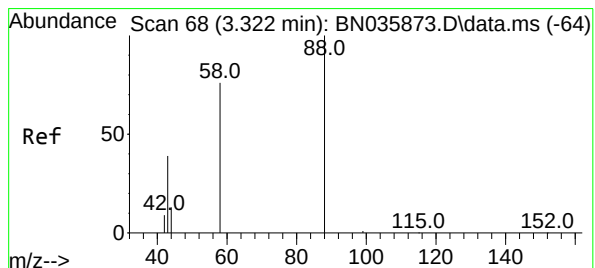
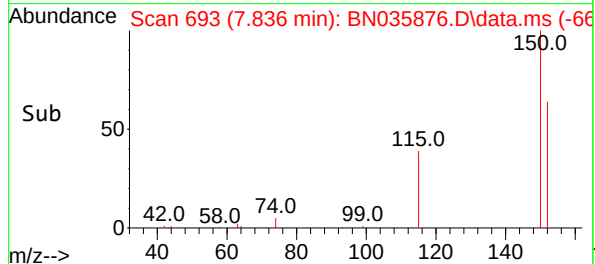
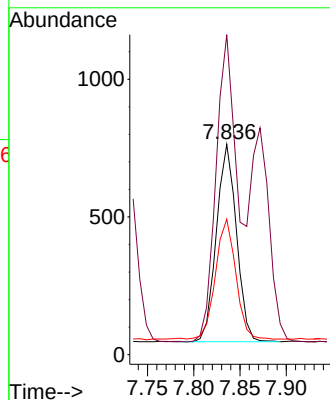
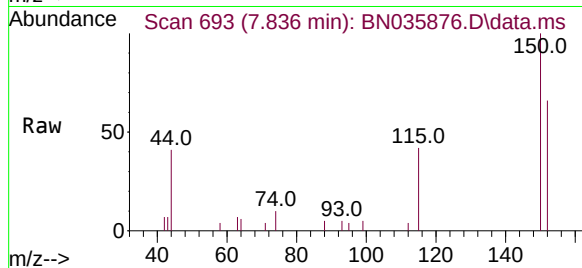




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.836 min Scan# 693
Delta R.T. -0.000 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

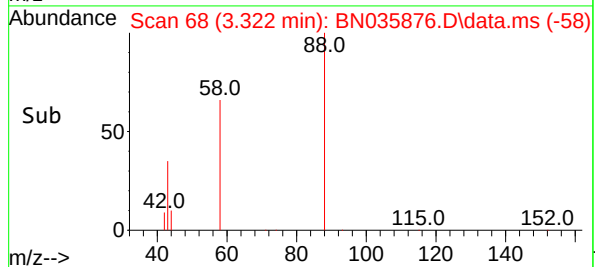
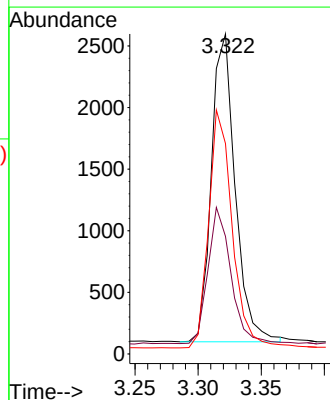
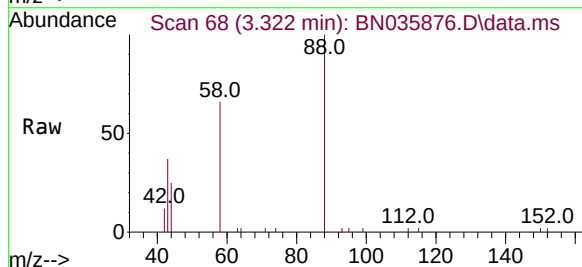
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

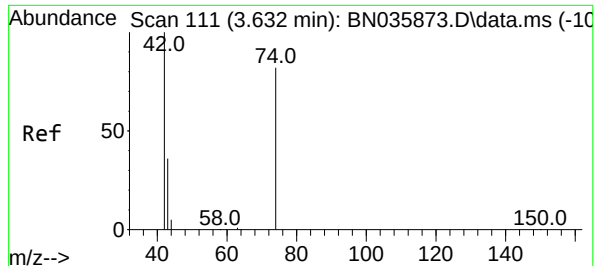
Tgt Ion: 152 Resp: 1084
Ion Ratio Lower Upper
152 100
150 152.1 117.8 176.6
115 64.4 51.0 76.4



#2
1,4-Dioxane
Concen: 3.037 ng
RT: 3.322 min Scan# 68
Delta R.T. 0.000 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

Tgt Ion: 88 Resp: 3270
Ion Ratio Lower Upper
88 100
43 42.6 32.7 49.1
58 76.5 63.0 94.4

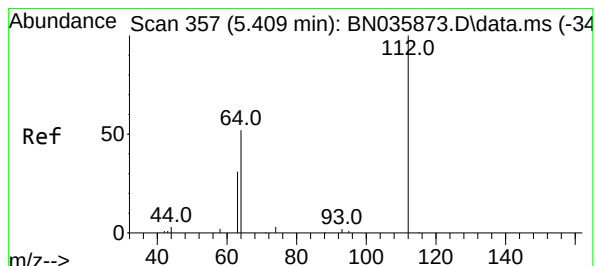
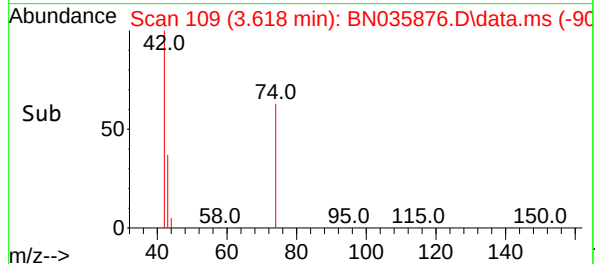
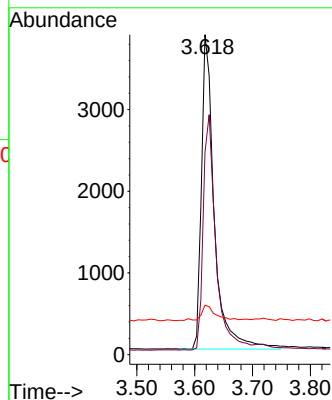
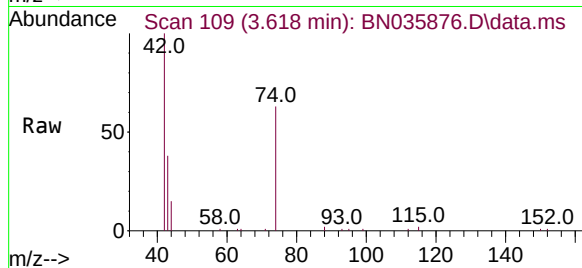




#3
n-Nitrosodimethylamine
Concen: 3.186 ng
RT: 3.618 min Scan# 109
Delta R.T. -0.014 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

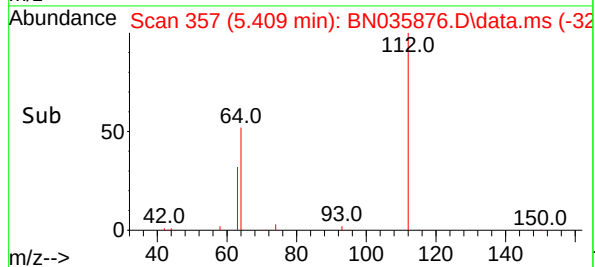
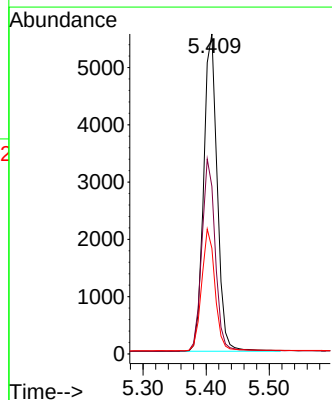
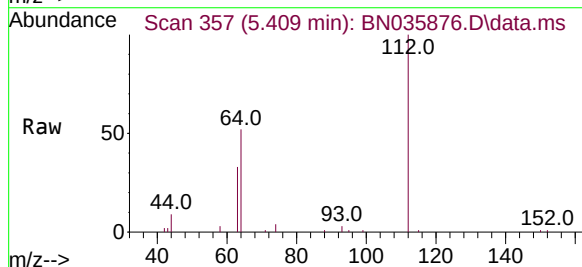
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

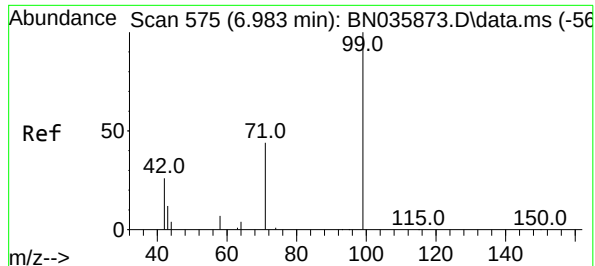
Tgt Ion: 42 Resp: 5985
Ion Ratio Lower Upper
42 100
74 73.7 62.2 93.2
44 5.7 7.1 10.7#



#4
2-Fluorophenol
Concen: 3.118 ng
RT: 5.409 min Scan# 357
Delta R.T. 0.000 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

Tgt Ion: 112 Resp: 8292
Ion Ratio Lower Upper
112 100
64 60.1 48.2 72.2
63 38.0 30.0 45.0





#5

Phenol-d6

Concen: 3.054 ng

RT: 6.983 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

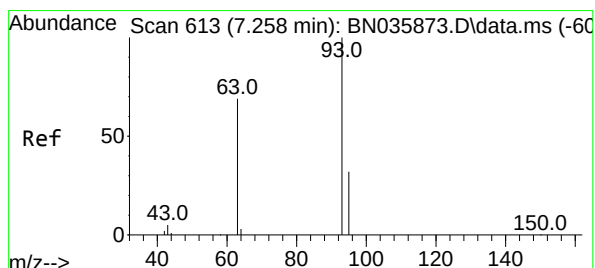
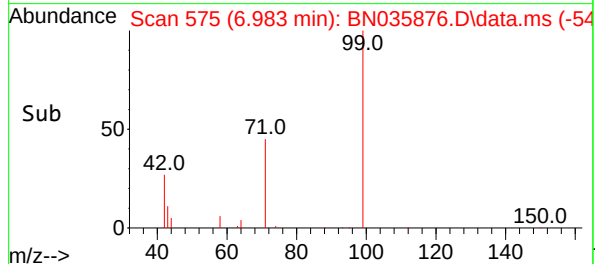
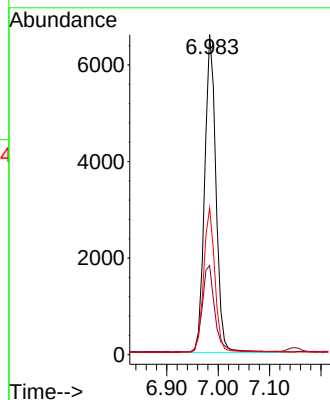
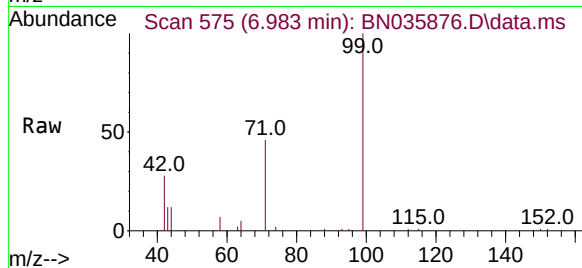
Tgt Ion: 99 Resp: 10087

Ion Ratio Lower Upper

99 100

42 30.1 23.5 35.3

71 45.6 35.5 53.3



#6

bis(2-Chloroethyl)ether

Concen: 3.054 ng

RT: 7.251 min Scan# 612

Delta R.T. -0.007 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

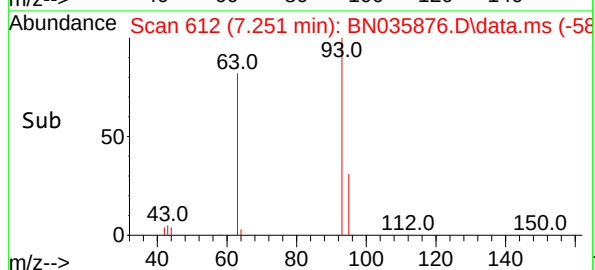
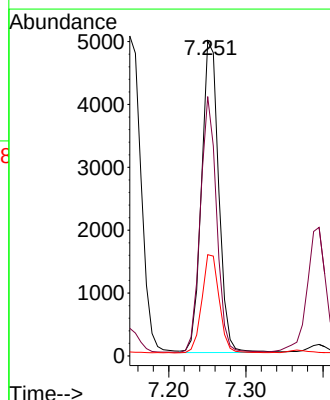
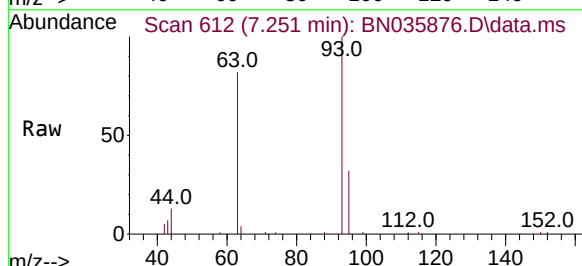
Tgt Ion: 93 Resp: 7684

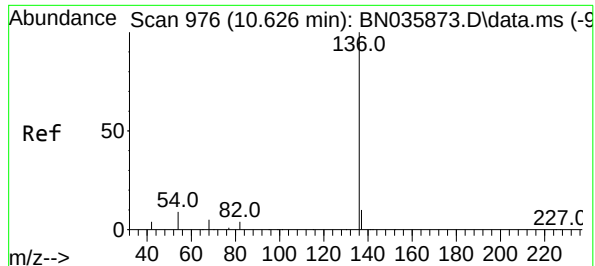
Ion Ratio Lower Upper

93 100

63 77.6 62.0 93.0

95 31.9 25.5 38.3

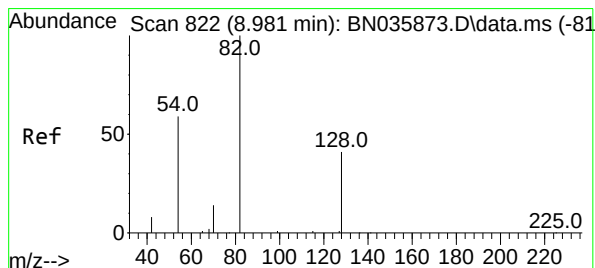
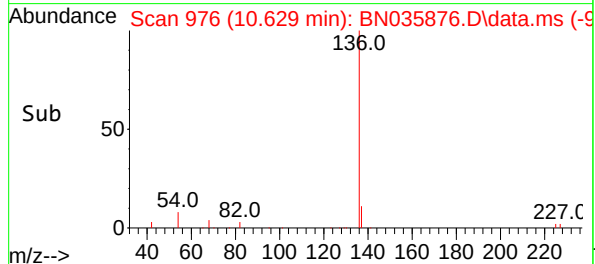
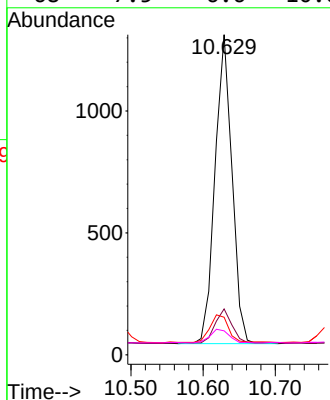
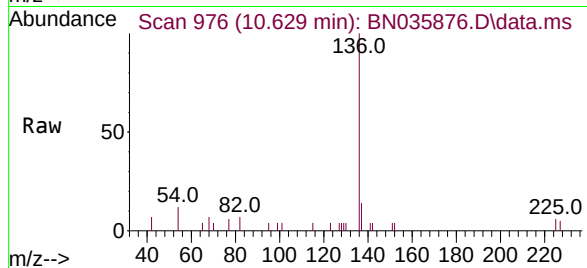




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.629 min Scan# 91
Delta R.T. 0.003 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

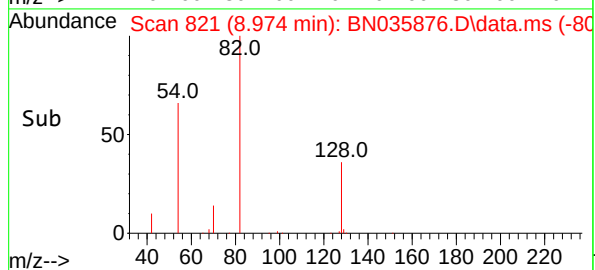
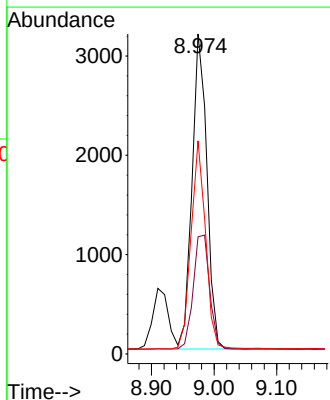
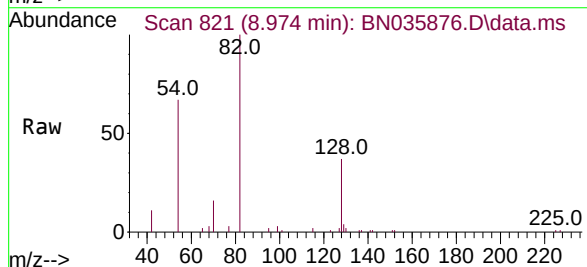
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

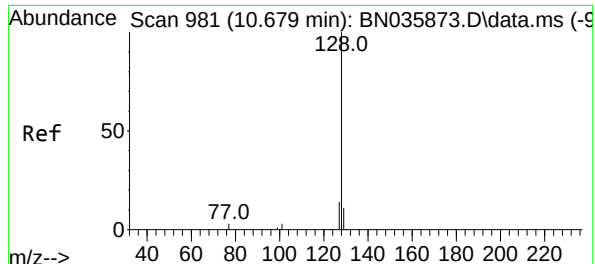
Tgt Ion:	136	Resp:	2065
Ion	Ratio	Lower	Upper
136	100		
137	14.3	10.6	15.8
54	11.7	9.8	14.6
68	7.5	6.6	10.0



#8
Nitrobenzene-d5
Concen: 3.201 ng
RT: 8.974 min Scan# 821
Delta R.T. -0.007 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

Tgt Ion:	82	Resp:	5234
Ion	Ratio	Lower	Upper
82	100		
128	36.6	36.9	55.3#
54	66.6	50.4	75.6

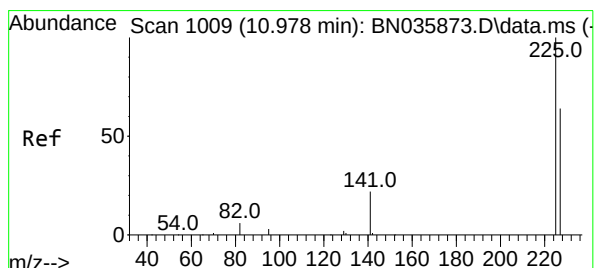
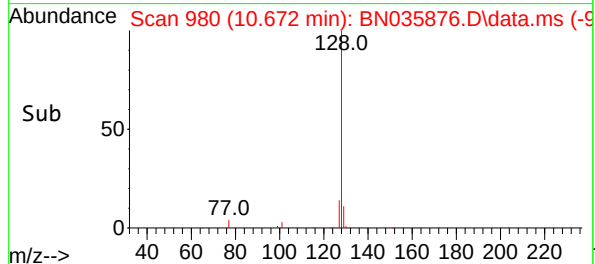
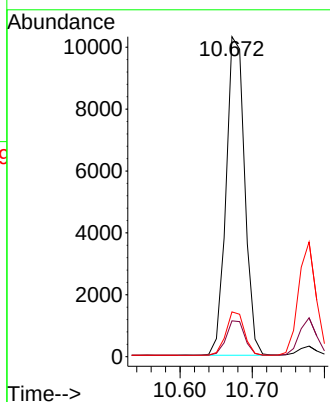
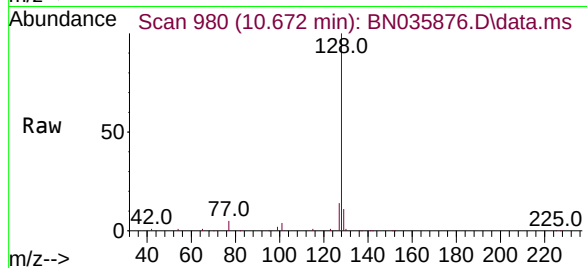




#9
Naphthalene
Concen: 3.173 ng
RT: 10.672 min Scan# 981
Delta R.T. -0.007 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

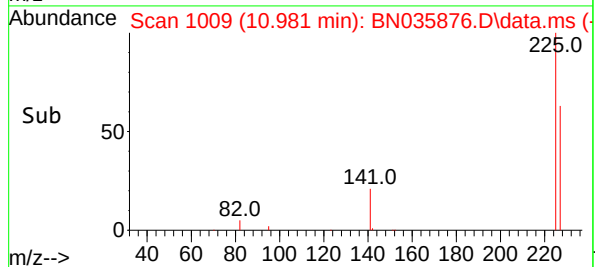
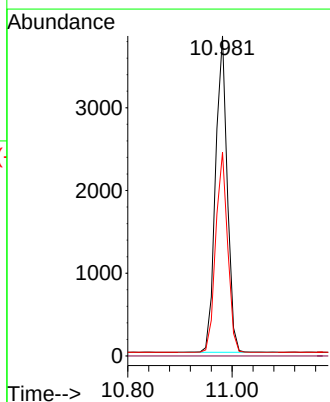
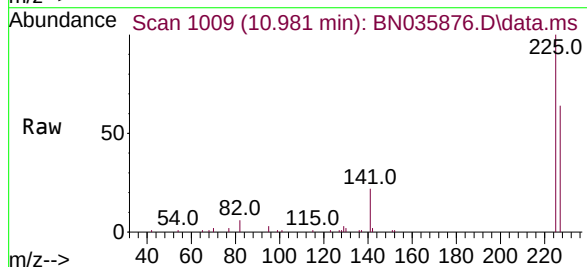
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

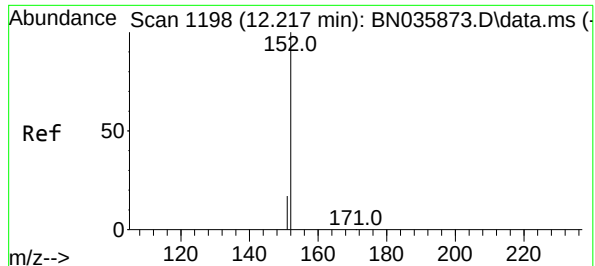
Tgt Ion:128 Resp: 18395
Ion Ratio Lower Upper
128 100
129 11.2 10.6 16.0
127 14.0 12.8 19.2



#10
Hexachlorobutadiene
Concen: 3.182 ng
RT: 10.981 min Scan# 1009
Delta R.T. 0.003 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

Tgt Ion:225 Resp: 5988
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 51.5 77.3

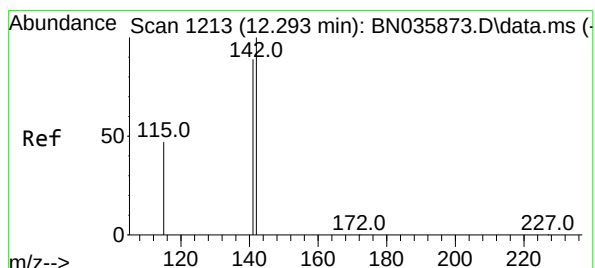
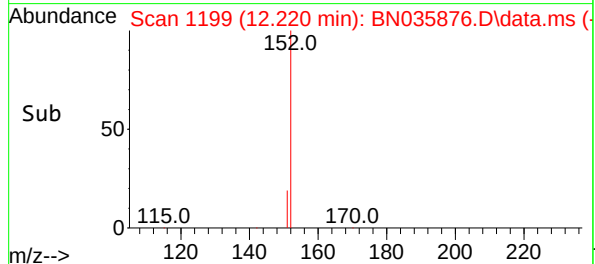
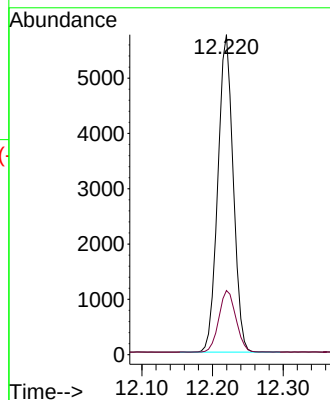
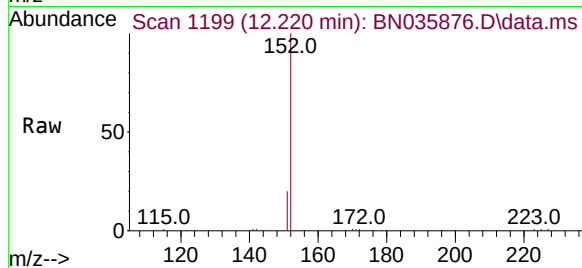




#11
2-Methylnaphthalene-d10
Concen: 3.130 ng
RT: 12.220 min Scan# 1198
Delta R.T. 0.003 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

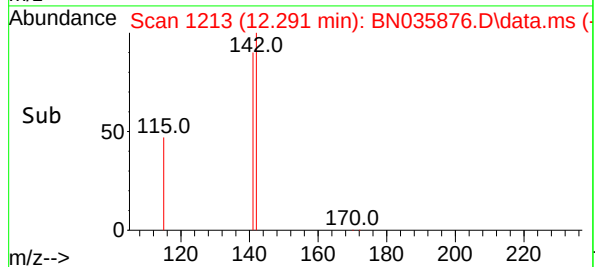
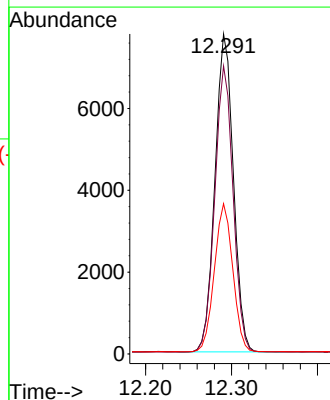
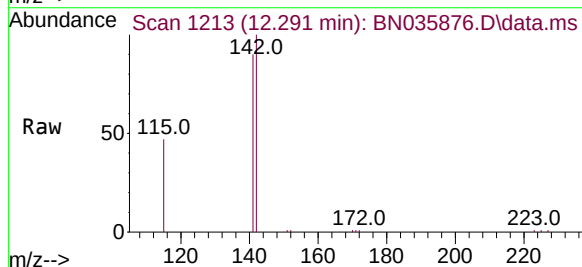
Instrument :
BNA_N
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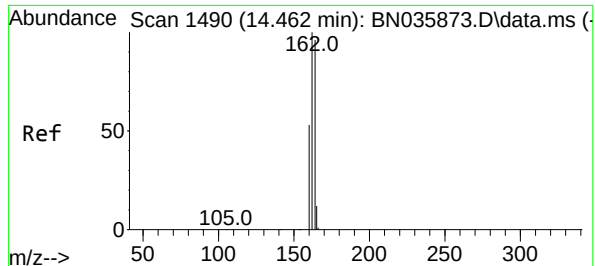
Tgt Ion:152 Resp: 8654
Ion Ratio Lower Upper
152 100
151 21.5 17.0 25.6



#12
2-Methylnaphthalene
Concen: 3.228 ng
RT: 12.291 min Scan# 1213
Delta R.T. -0.002 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

Tgt Ion:142 Resp: 11578
Ion Ratio Lower Upper
142 100
141 90.0 71.9 107.9
115 47.0 39.6 59.4

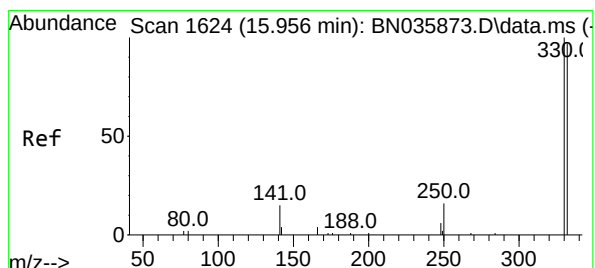
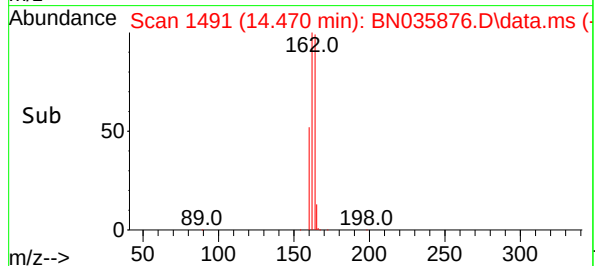
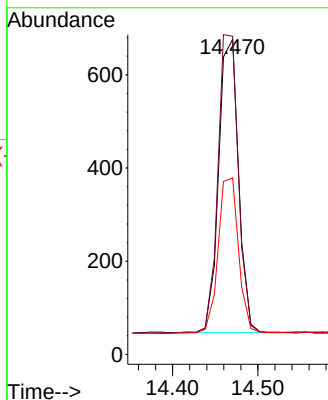
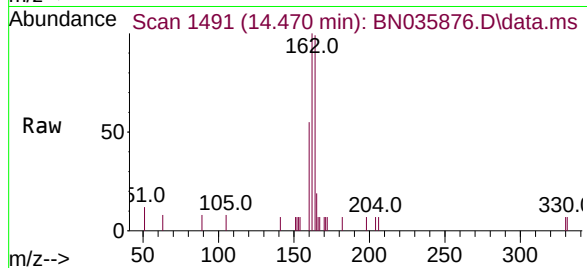




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.470 min Scan# 1490
Delta R.T. 0.009 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

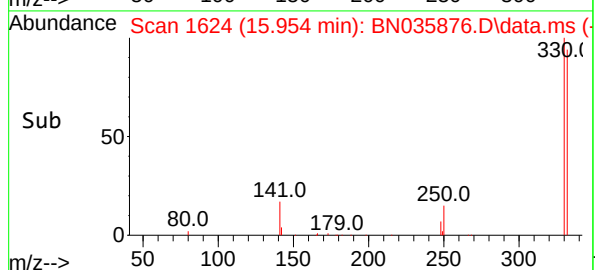
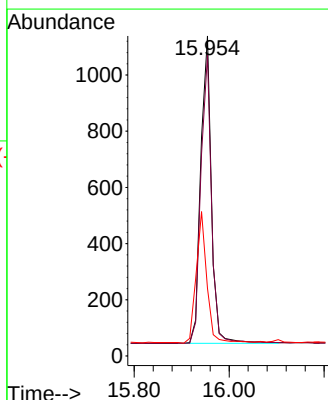
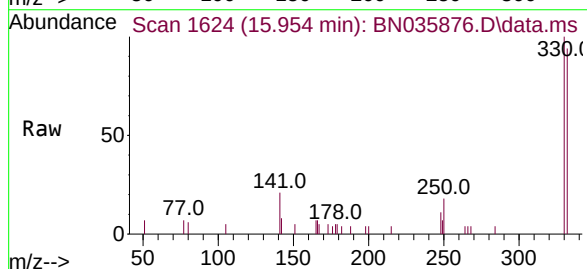
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

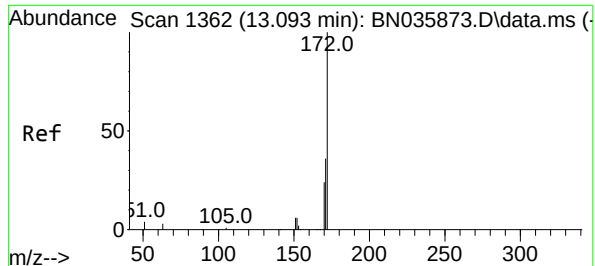
Tgt Ion:164 Resp: 1017
Ion Ratio Lower Upper
164 100
162 101.0 83.1 124.7
160 56.1 46.0 69.0



#14
2,4,6-Tribromophenol
Concen: 3.510 ng
RT: 15.954 min Scan# 1624
Delta R.T. -0.002 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

Tgt Ion:330 Resp: 1714
Ion Ratio Lower Upper
330 100
332 93.9 77.2 115.8
141 41.7 31.6 47.4

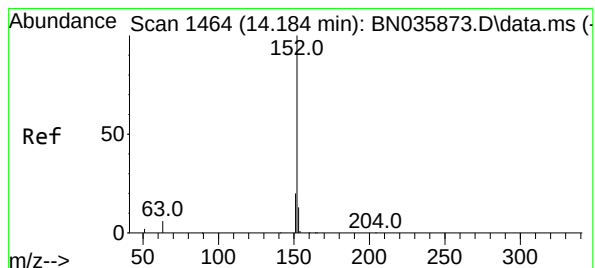
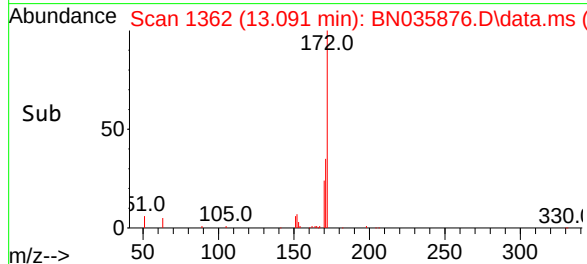
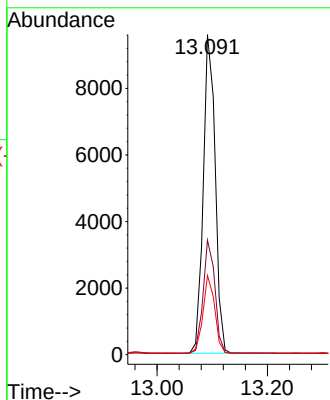
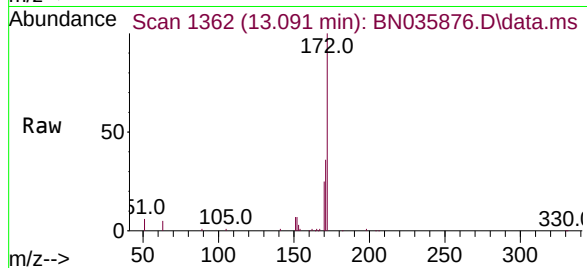




#15
2-Fluorobiphenyl
Concen: 3.243 ng
RT: 13.091 min Scan# 1362
Delta R.T. -0.002 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

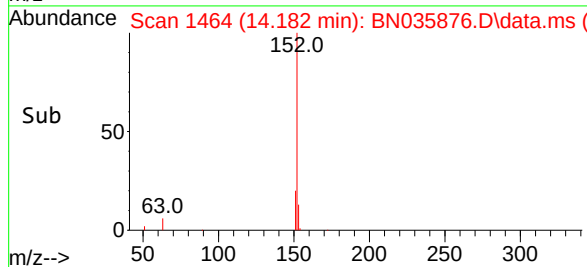
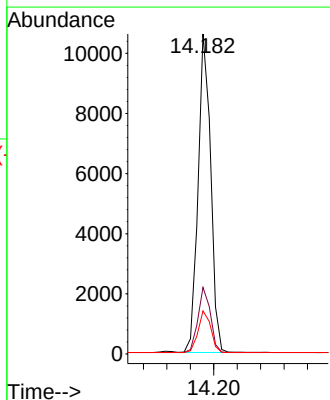
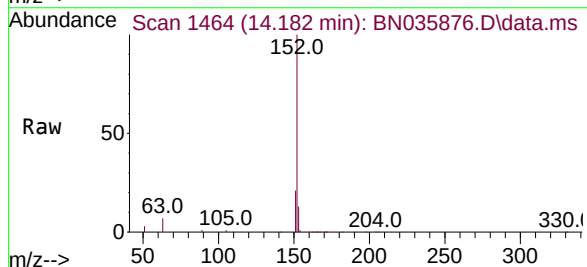
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

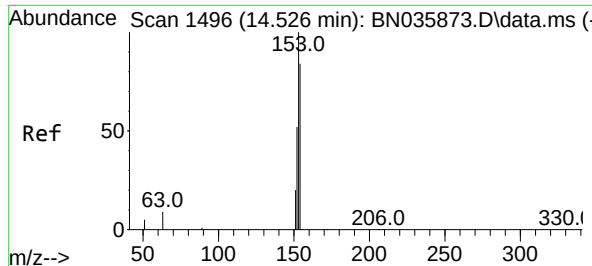
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.8	30.5	45.7
170	24.7	20.8	31.2



#16
Acenaphthylene
Concen: 3.309 ng
RT: 14.182 min Scan# 1464
Delta R.T. -0.002 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.3	24.5
153	13.1	10.6	15.8

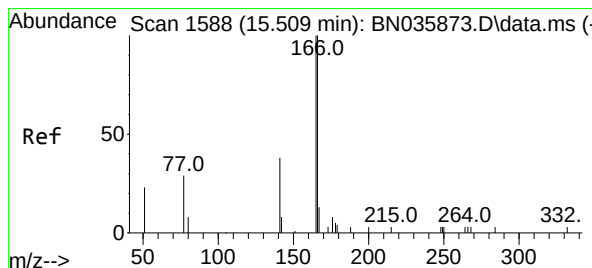
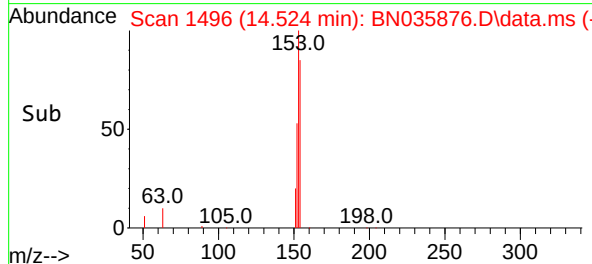
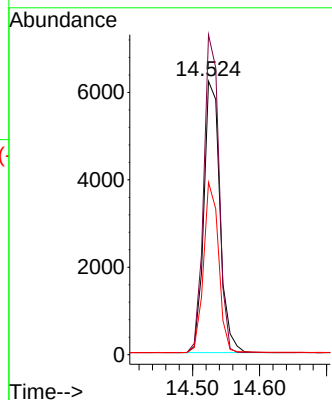
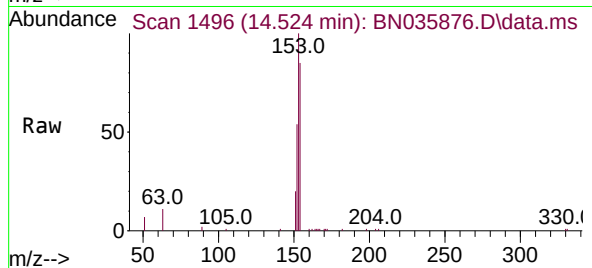




#17
Acenaphthene
Concen: 3.304 ng
RT: 14.524 min Scan# 1496
Delta R.T. -0.002 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

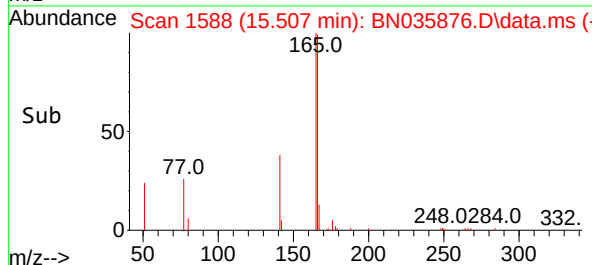
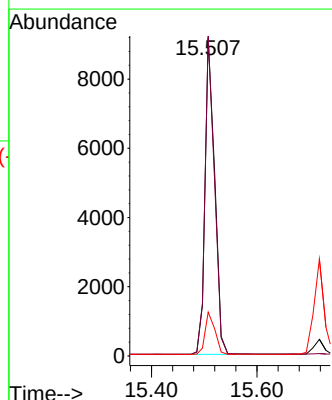
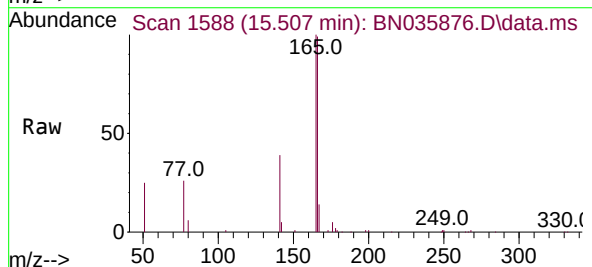
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

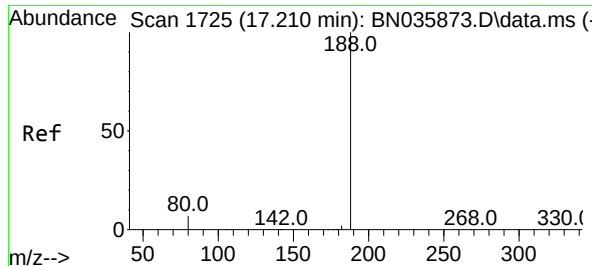
Tgt Ion:154 Resp: 10376
Ion Ratio Lower Upper
154 100
153 110.5 90.5 135.7
152 58.7 48.6 73.0



#18
Fluorene
Concen: 3.402 ng
RT: 15.507 min Scan# 1588
Delta R.T. -0.002 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

Tgt Ion:166 Resp: 11752
Ion Ratio Lower Upper
166 100
165 99.1 80.6 120.8
167 12.9 11.4 17.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.208 min Scan# 11

Delta R.T. -0.002 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

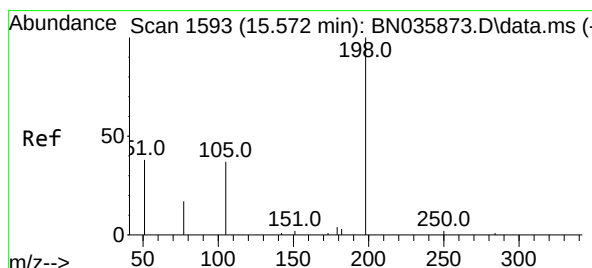
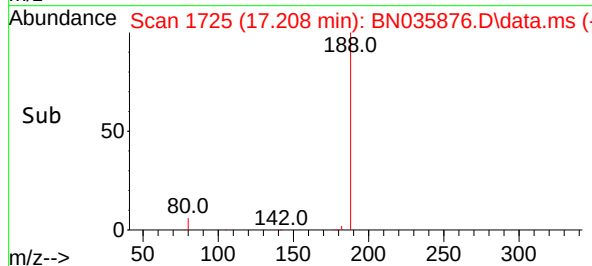
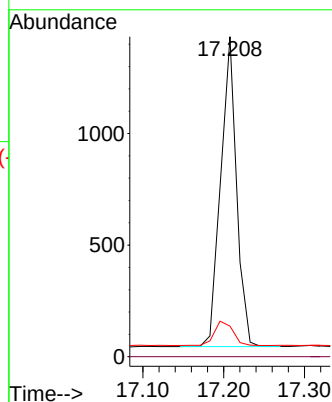
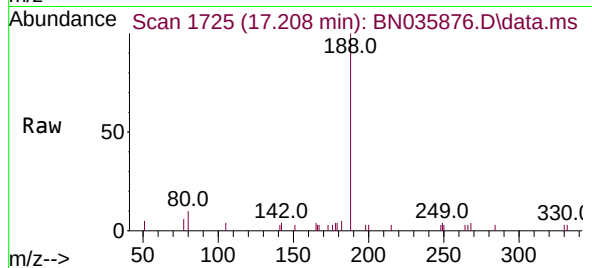
Tgt Ion:188 Resp: 1903

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.6 7.3 10.9



#20

4,6-Dinitro-2-methylphenol

Concen: 3.519 ng

RT: 15.569 min Scan# 1593

Delta R.T. -0.002 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

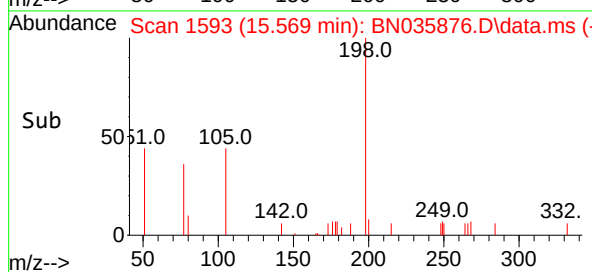
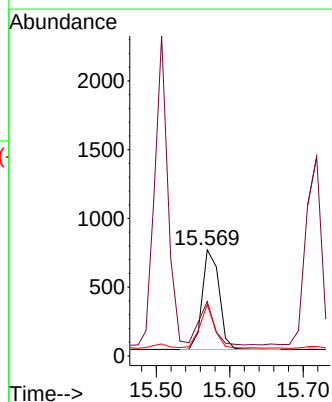
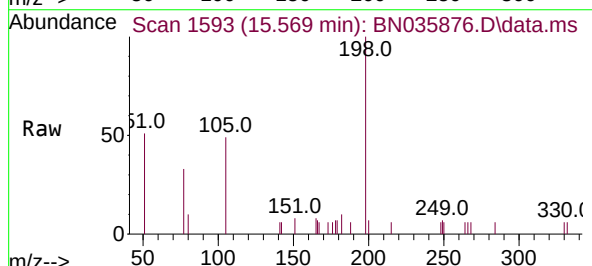
Tgt Ion:198 Resp: 1163

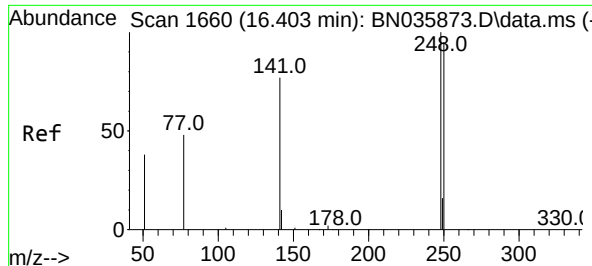
Ion Ratio Lower Upper

198 100

51 51.4 64.3 96.5#

105 48.6 50.0 75.0#

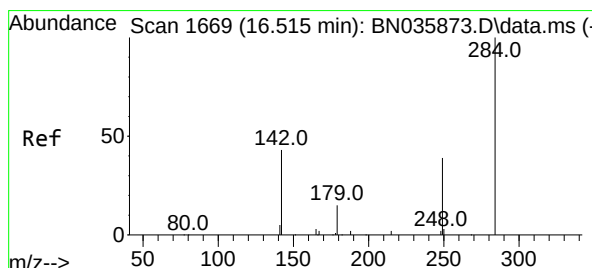
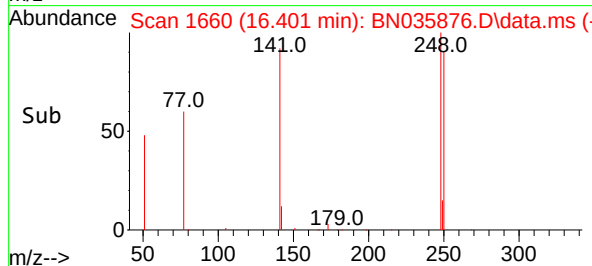
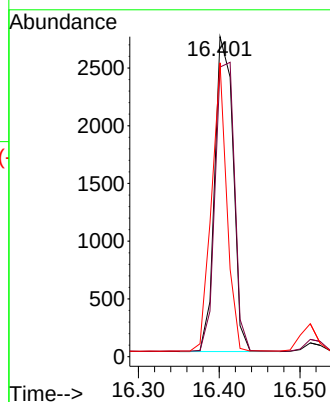
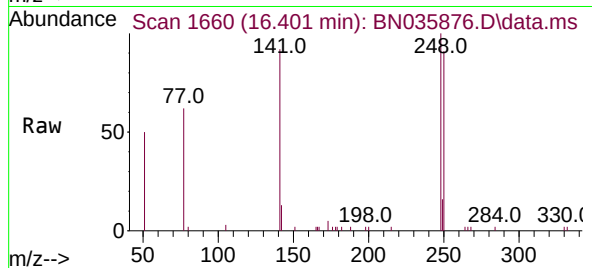




#21
4-Bromophenyl-phenylether
Concen: 3.298 ng
RT: 16.401 min Scan# 1670
Delta R.T. -0.002 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

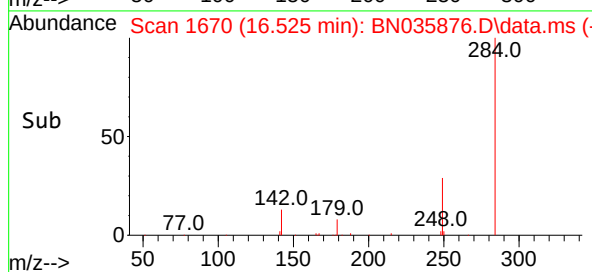
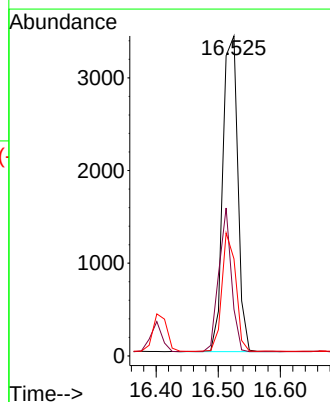
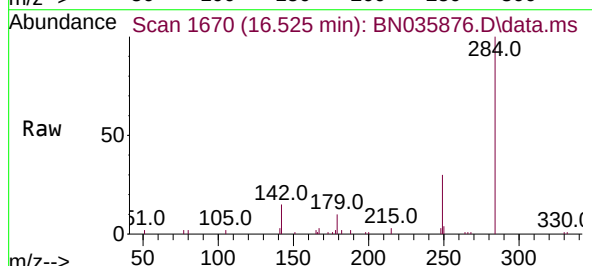
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

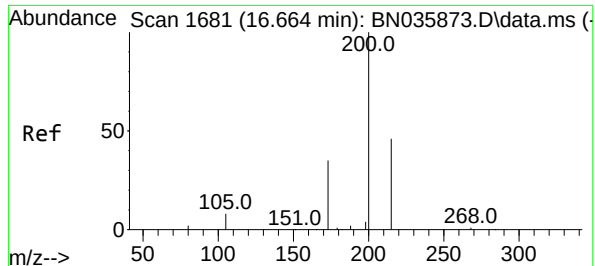
Tgt Ion	Ratio	Lower	Upper
248	100		
250	90.5	76.8	115.2
141	91.8	63.6	95.4



#22
Hexachlorobenzene
Concen: 3.188 ng
RT: 16.525 min Scan# 1670
Delta R.T. 0.010 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.4	31.4	47.0
249	34.7	27.8	41.8

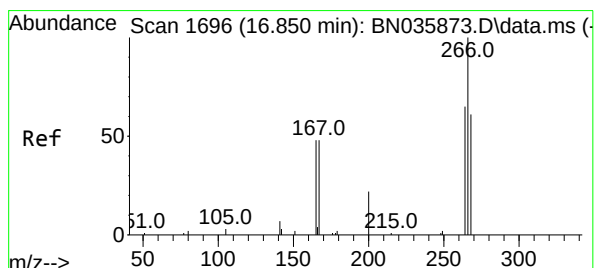
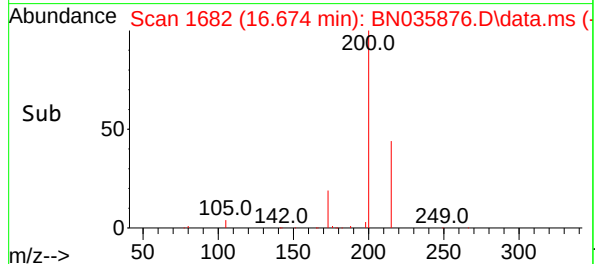
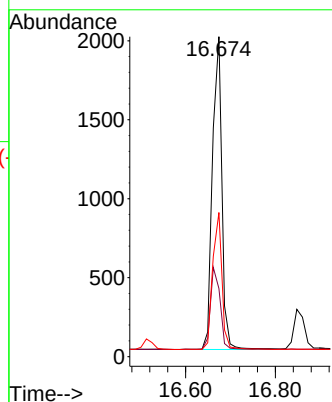
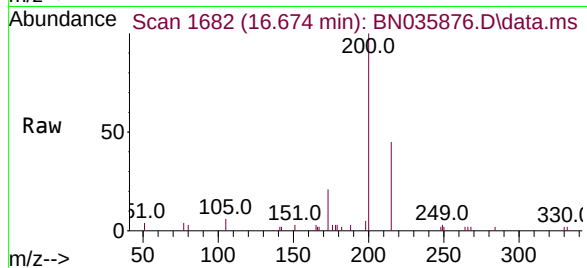




#23
Atrazine
Concen: 3.299 ng
RT: 16.674 min Scan# 1681
Delta R.T. 0.010 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

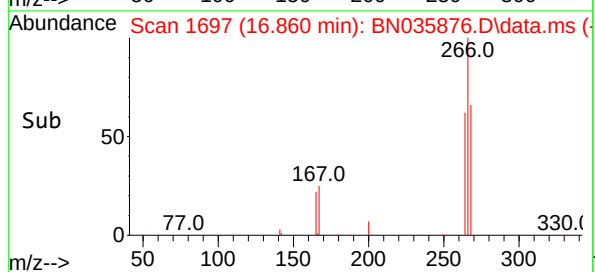
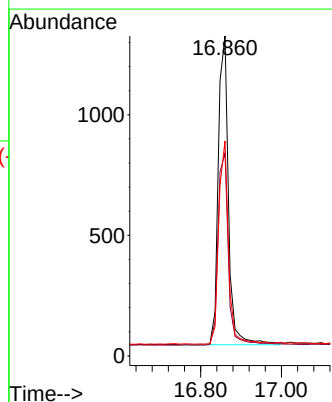
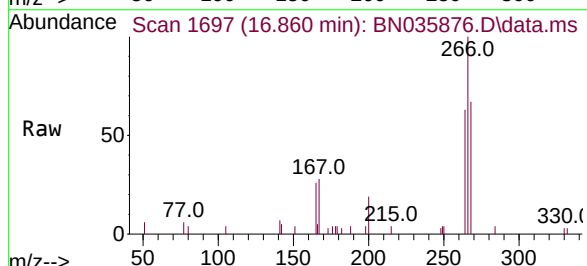
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

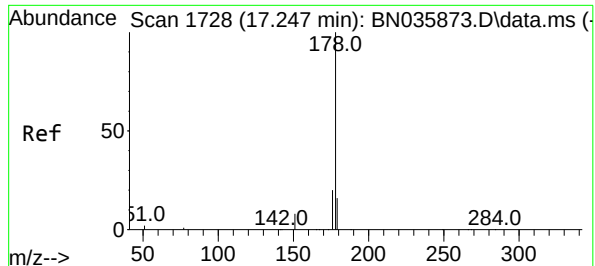
Tgt Ion:200 Resp: 2888
Ion Ratio Lower Upper
200 100
173 21.3 35.4 53.0#
215 45.1 42.4 63.6



#24
Pentachlorophenol
Concen: 3.582 ng
RT: 16.860 min Scan# 1697
Delta R.T. 0.010 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

Tgt Ion:266 Resp: 2256
Ion Ratio Lower Upper
266 100
264 62.5 49.9 74.9
268 63.4 50.2 75.2

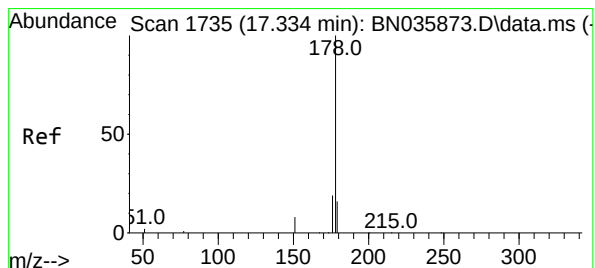
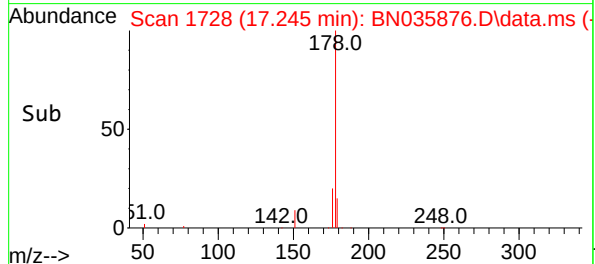
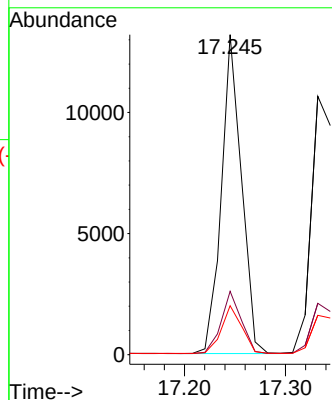
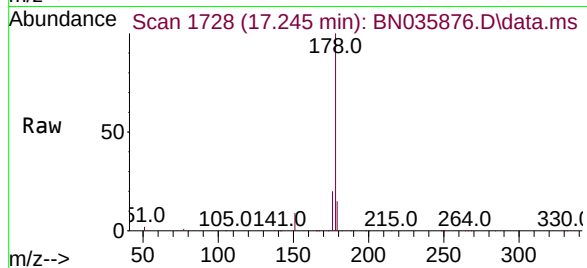




#25
Phenanthrene
Concen: 3.272 ng
RT: 17.245 min Scan# 1728
Delta R.T. -0.002 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

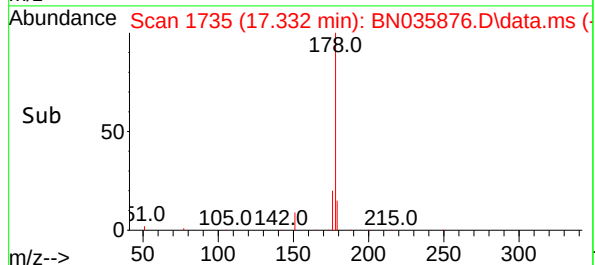
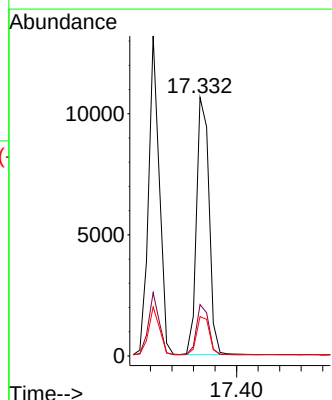
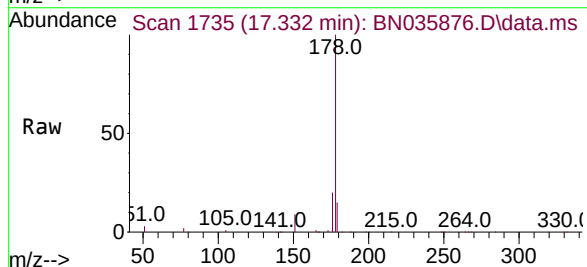
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

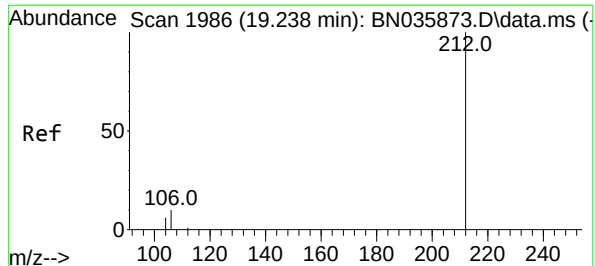
Tgt Ion:178 Resp: 18166
Ion Ratio Lower Upper
178 100
176 19.6 15.9 23.9
179 15.3 12.9 19.3



#26
Anthracene
Concen: 3.409 ng
RT: 17.332 min Scan# 1735
Delta R.T. -0.002 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

Tgt Ion:178 Resp: 17227
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.2 13.0 19.6





#27

Fluoranthene-d10

Concen: 3.255 ng

RT: 19.236 min Scan# 1986

Delta R.T. -0.002 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

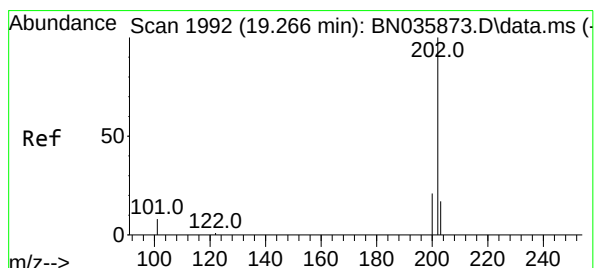
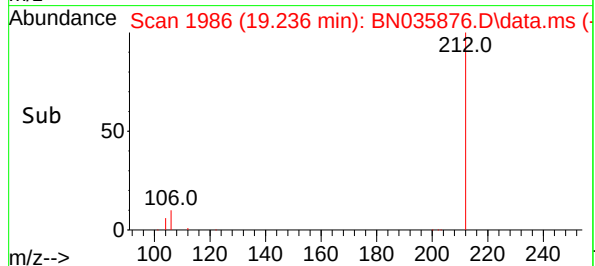
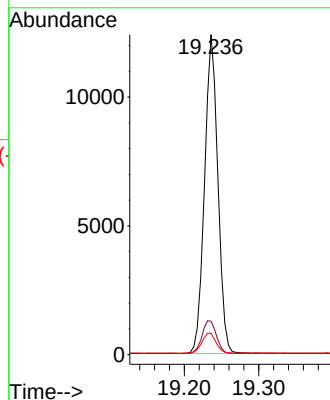
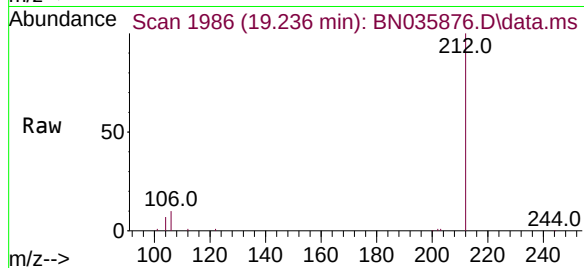
Tgt Ion:212 Resp: 15378

Ion Ratio Lower Upper

212 100

106 11.0 9.0 13.6

104 6.7 5.4 8.2



#28

Fluoranthene

Concen: 3.400 ng

RT: 19.268 min Scan# 1993

Delta R.T. 0.003 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

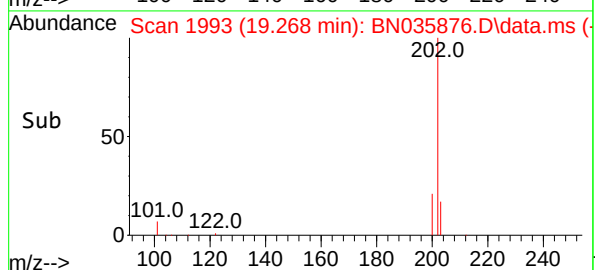
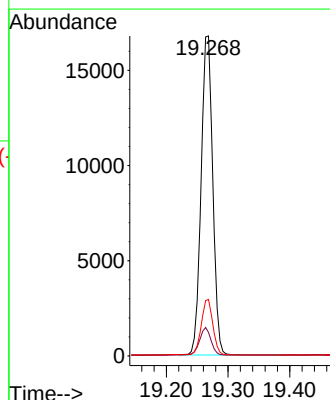
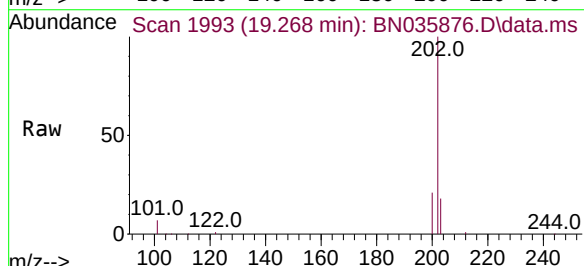
Tgt Ion:202 Resp: 22007

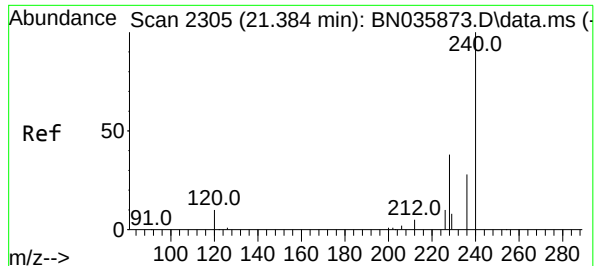
Ion Ratio Lower Upper

202 100

101 8.5 7.2 10.8

203 17.3 13.9 20.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.386 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

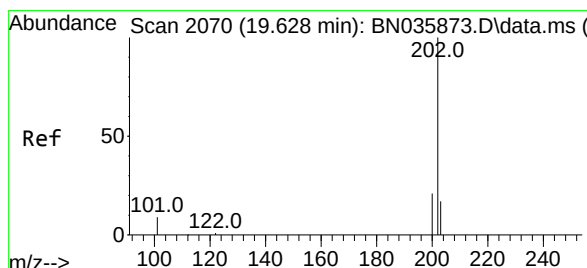
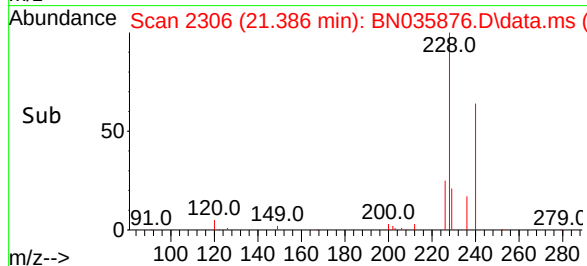
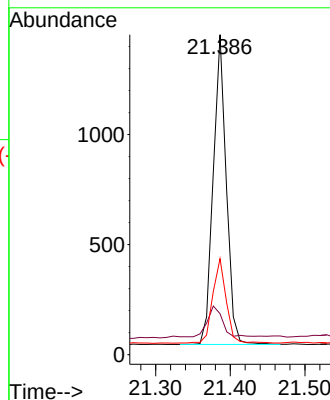
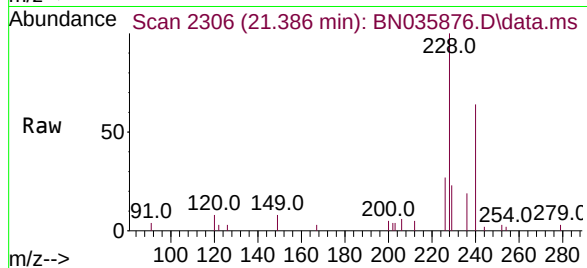
Tgt Ion:240 Resp: 1710

Ion Ratio Lower Upper

240 100

120 12.8 11.1 16.7

236 30.0 24.6 36.8



#30

Pyrene

Concen: 3.193 ng

RT: 19.626 min Scan# 2070

Delta R.T. -0.002 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

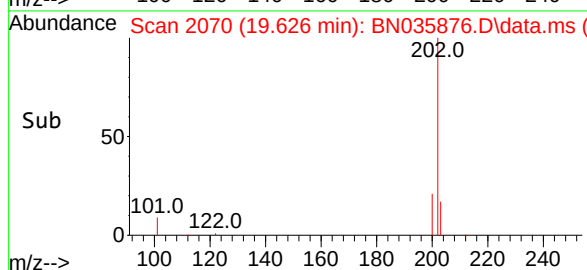
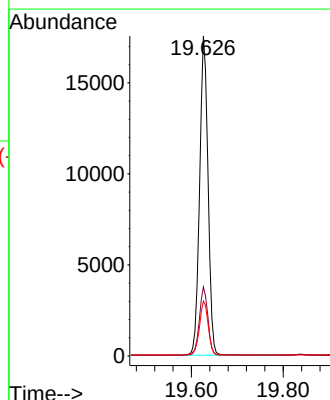
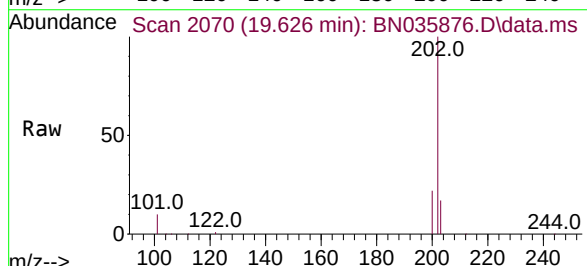
Tgt Ion:202 Resp: 22172

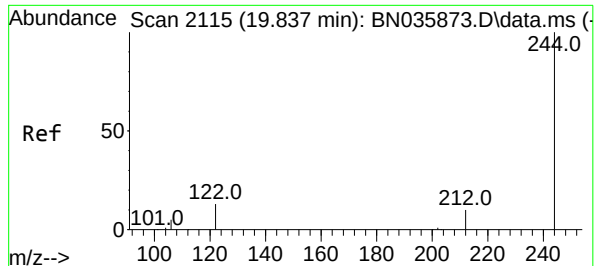
Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.6

203 17.6 14.6 22.0

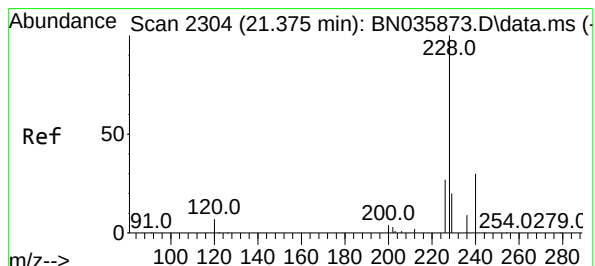
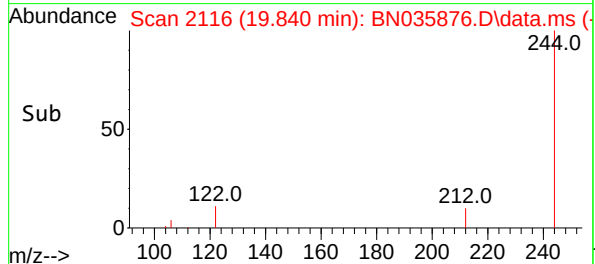
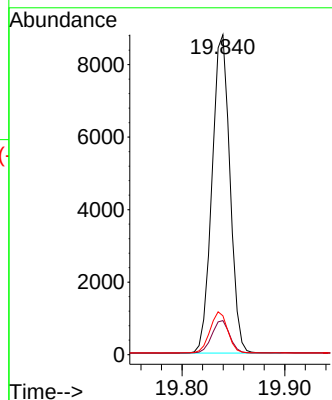
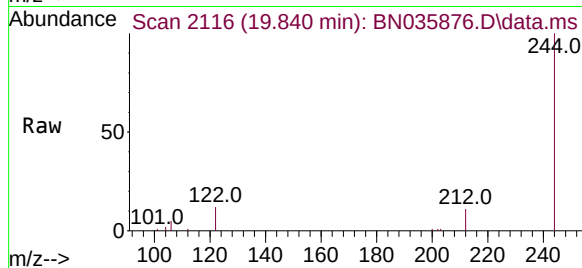




#31
Terphenyl-d14
Concen: 3.114 ng
RT: 19.840 min Scan# 2115
Delta R.T. 0.003 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

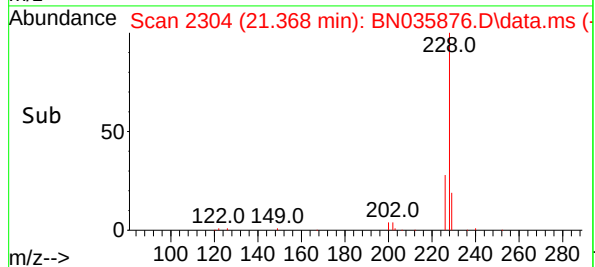
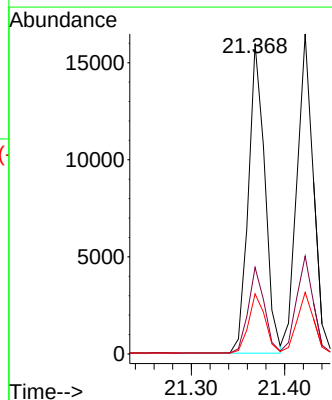
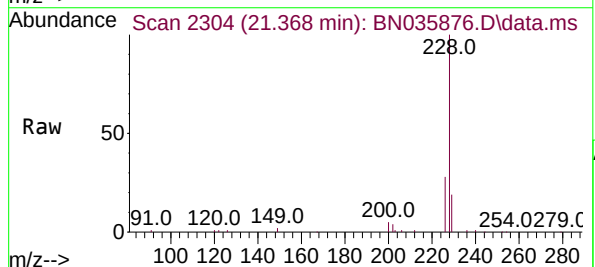
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

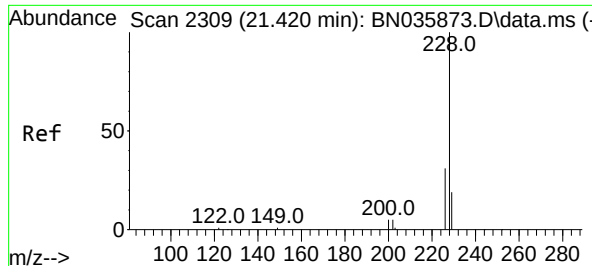
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.7	10.1	15.1
122	12.1	12.2	18.4



#32
Benzo(a)anthracene
Concen: 3.240 ng
RT: 21.368 min Scan# 2304
Delta R.T. -0.006 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.7	34.1
229	19.4	17.1	25.7





#33

Chrysene

Concen: 3.207 ng

RT: 21.422 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

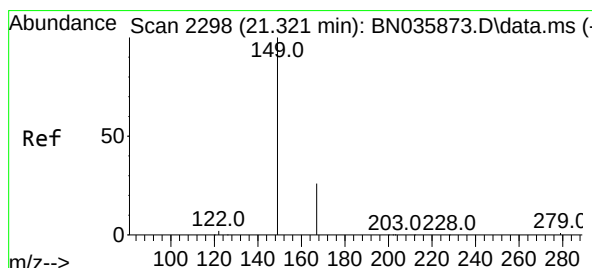
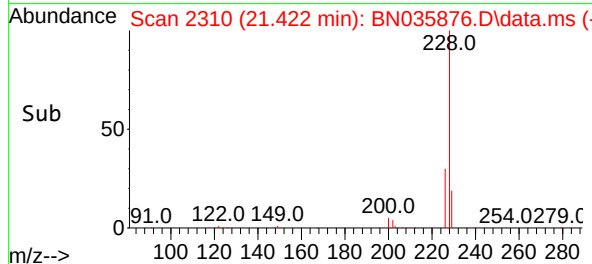
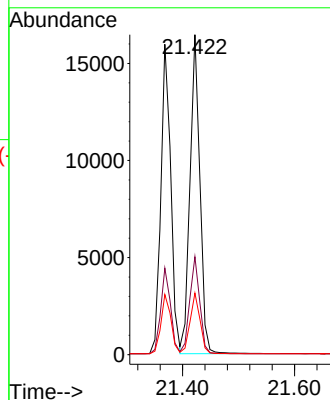
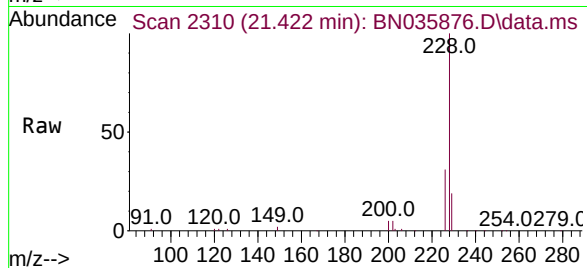
Tgt Ion:228 Resp: 20218

Ion Ratio Lower Upper

228 100

226 30.6 25.2 37.8

229 19.3 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 2.894 ng

RT: 21.324 min Scan# 2299

Delta R.T. 0.003 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

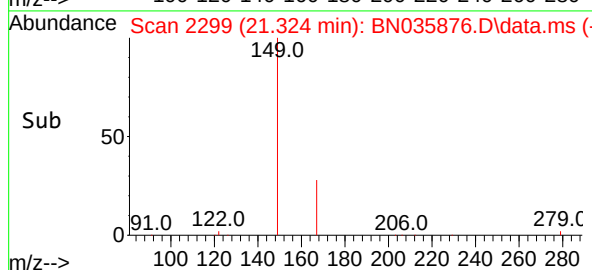
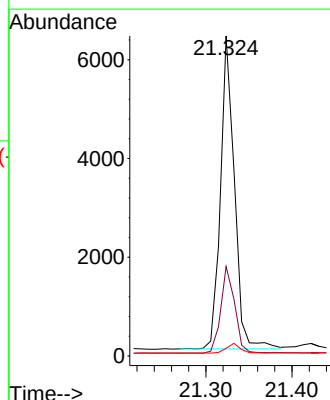
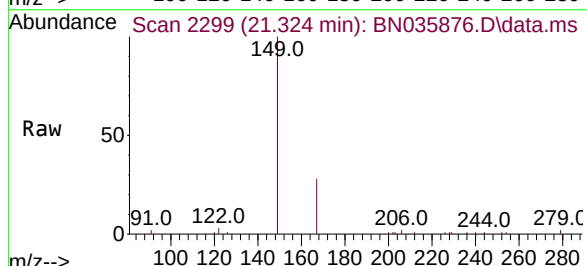
Tgt Ion:149 Resp: 7099

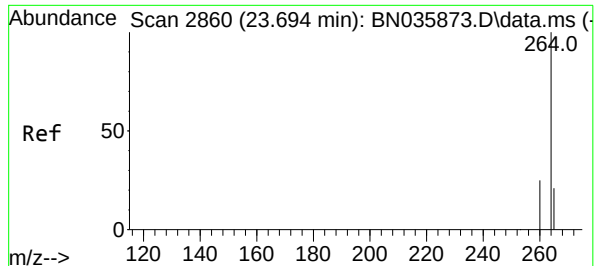
Ion Ratio Lower Upper

149 100

167 27.8 21.4 32.0

279 2.9 3.0 4.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.691 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

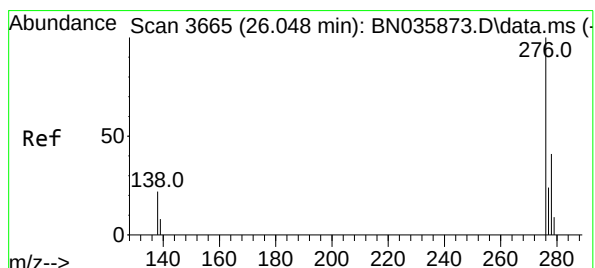
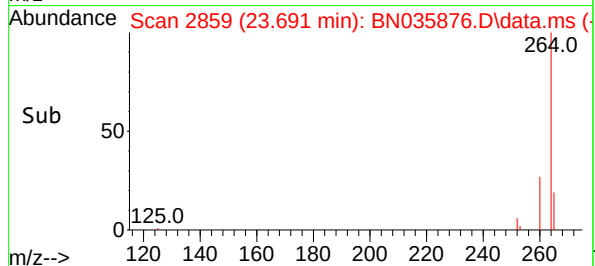
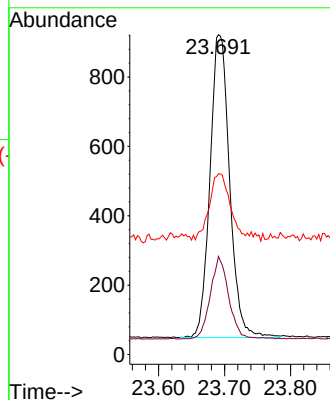
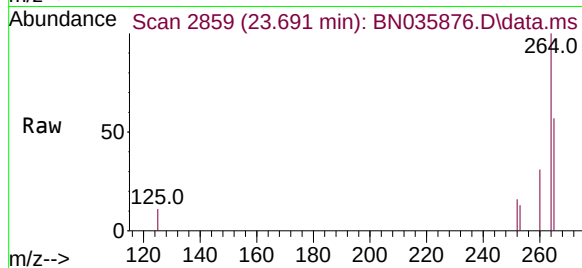
Tgt Ion:264 Resp: 1808

Ion Ratio Lower Upper

264 100

260 30.7 21.7 32.5

265 56.5 33.9 50.9#



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.474 ng

RT: 26.050 min Scan# 3666

Delta R.T. 0.003 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

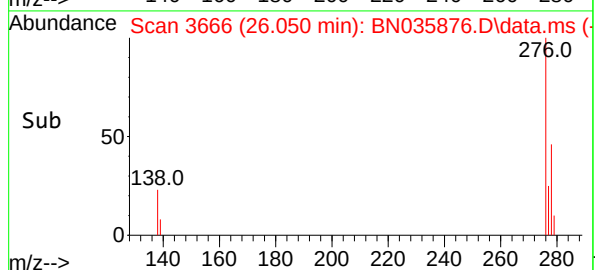
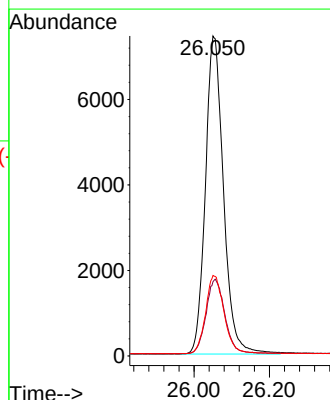
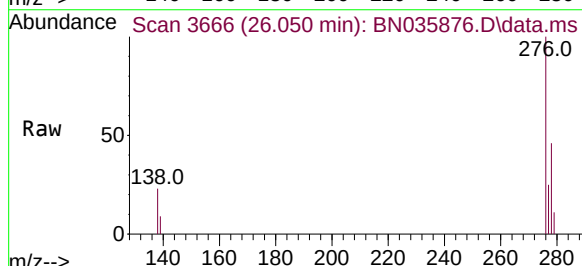
Tgt Ion:276 Resp: 24767

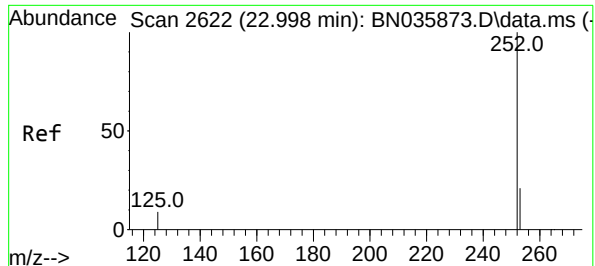
Ion Ratio Lower Upper

276 100

138 24.1 18.9 28.3

277 25.1 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 3.305 ng

RT: 22.998 min Scan# 2622

Delta R.T. -0.000 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

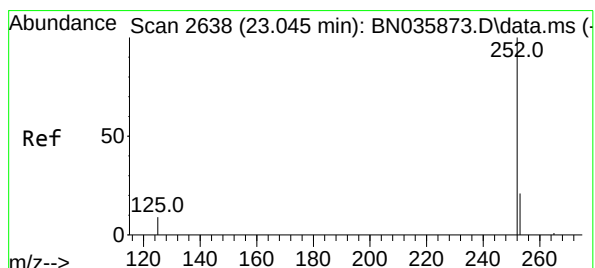
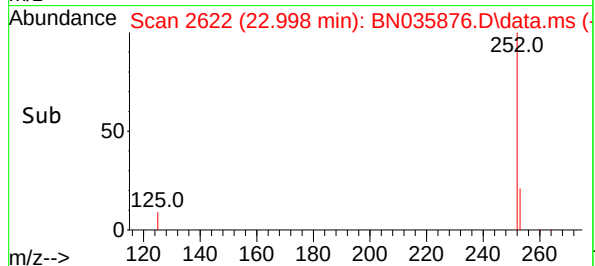
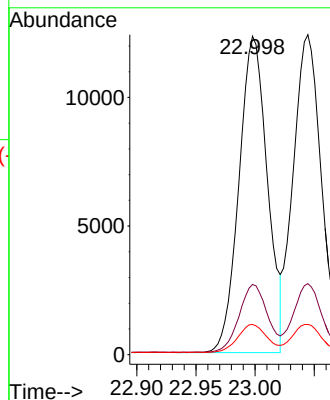
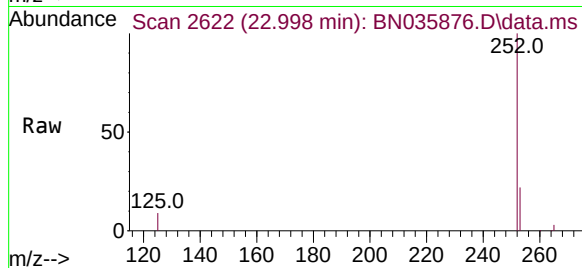
Tgt Ion:252 Resp: 20532

Ion Ratio Lower Upper

252 100

253 22.0 20.1 30.1

125 9.5 9.9 14.9#



#38

Benzo(k)fluoranthene

Concen: 3.392 ng

RT: 23.045 min Scan# 2638

Delta R.T. -0.000 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

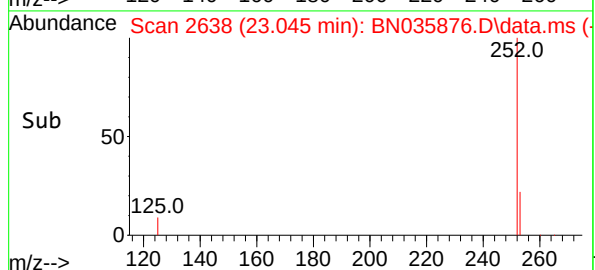
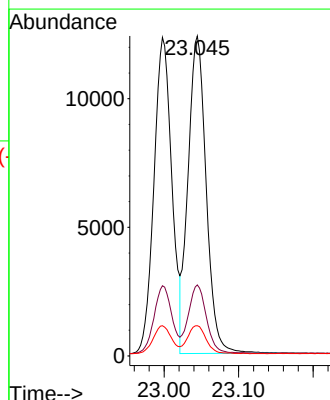
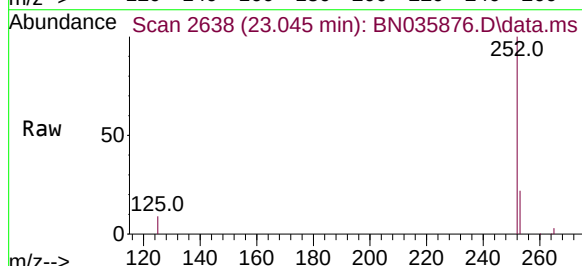
Tgt Ion:252 Resp: 20853

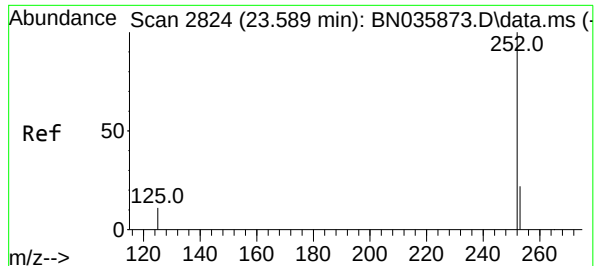
Ion Ratio Lower Upper

252 100

253 22.2 20.5 30.7

125 9.5 10.6 16.0#





#39

Benzo(a)pyrene

Concen: 3.347 ng

RT: 23.591 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

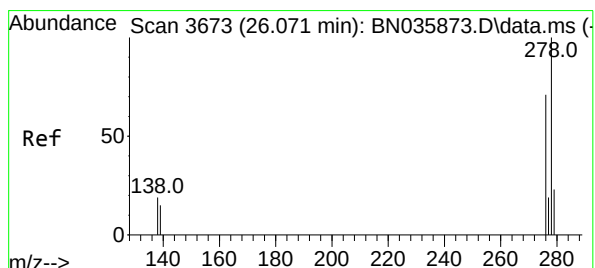
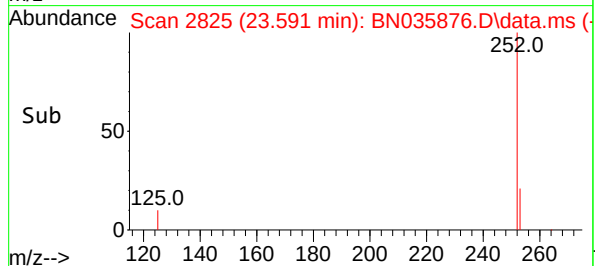
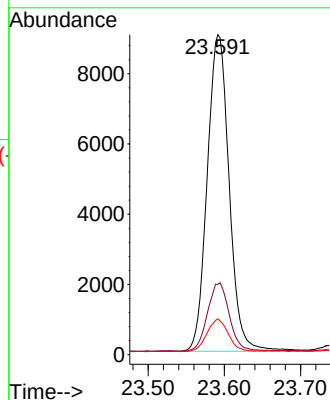
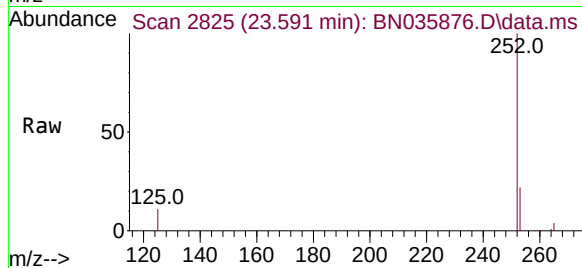
Tgt Ion:252 Resp: 17995

Ion Ratio Lower Upper

252 100

253 22.0 21.5 32.3

125 11.2 12.6 19.0#



#40

Dibenzo(a,h)anthracene

Concen: 3.480 ng

RT: 26.073 min Scan# 3674

Delta R.T. 0.003 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

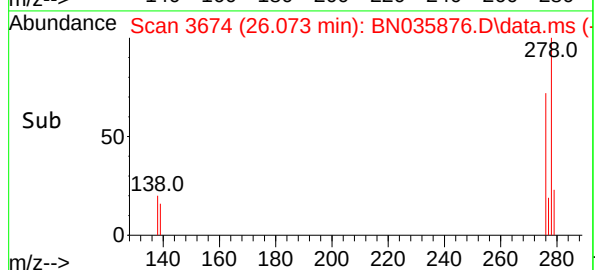
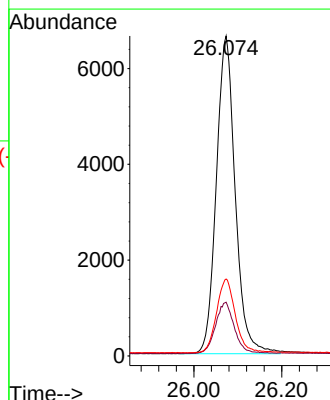
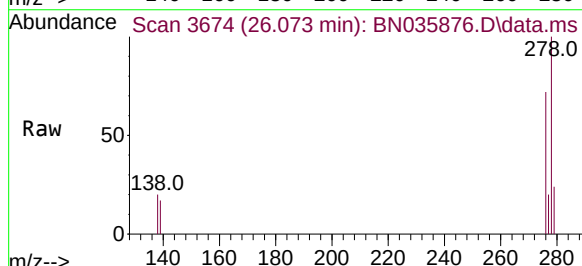
Tgt Ion:278 Resp: 19738

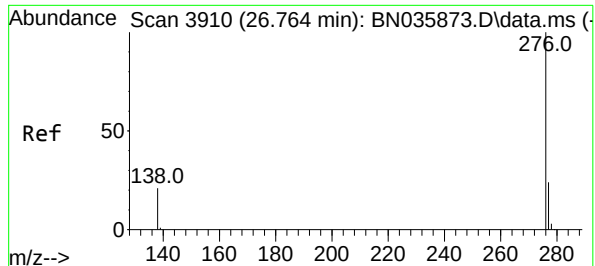
Ion Ratio Lower Upper

278 100

139 16.8 15.9 23.9

279 24.0 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 3.423 ng

RT: 26.766 min Scan# 3910

Delta R.T. 0.003 min

Lab File: BN035876.D

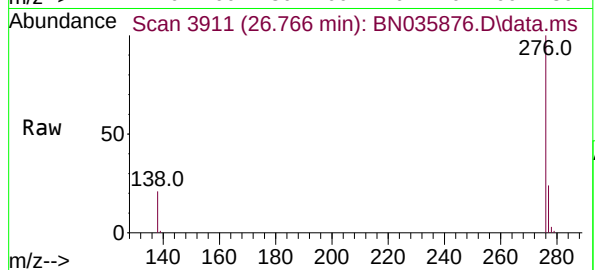
Acq: 02 Jan 2025 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



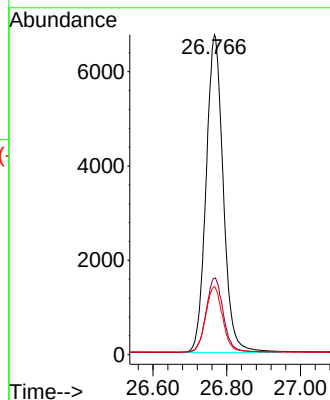
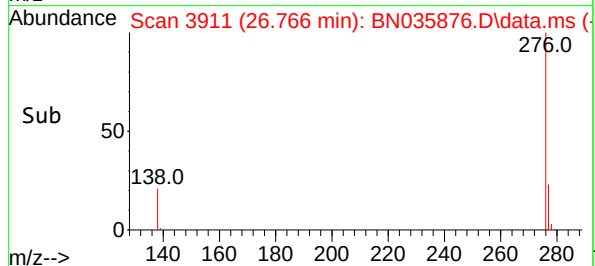
Tgt Ion:276 Resp: 21709

Ion Ratio Lower Upper

276 100

277 23.9 22.8 34.2

138 21.3 20.1 30.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
 Data File : BN035877.D
 Acq On : 02 Jan 2025 15:04
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Jan 02 15:51:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

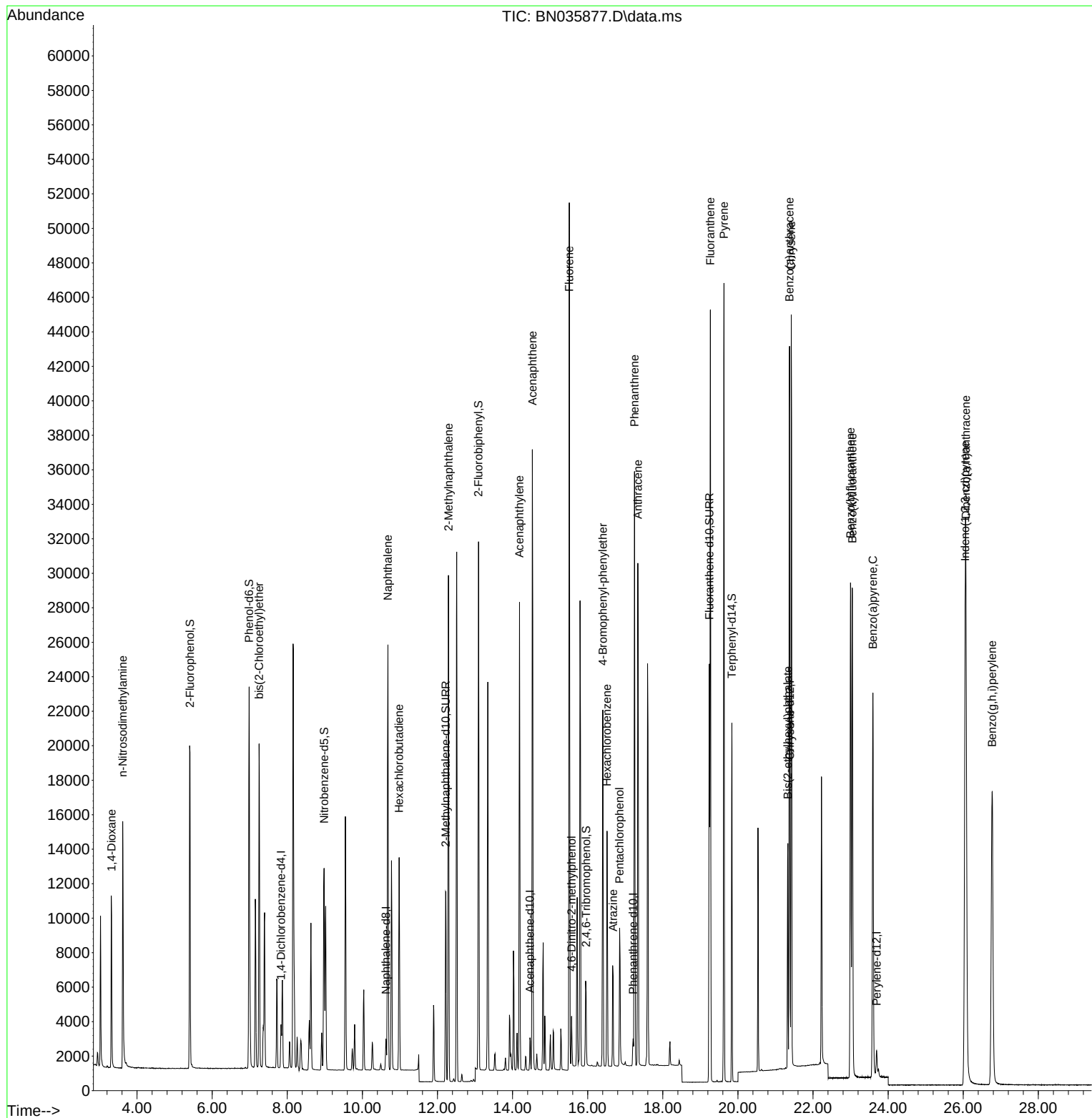
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.835	152	1152	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	2131	0.400	ng	0.00
13) Acenaphthene-d10	14.462	164	1092	0.400	ng	0.00
19) Phenanthrene-d10	17.210	188	2104	0.400	ng	0.00
29) Chrysene-d12	21.384	240	1949	0.400	ng	0.00
35) Perylene-d12	23.694	264	2023	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.409	112	13943	4.933	ng	0.00
5) Phenol-d6	6.983	99	16841	4.798	ng	0.00
8) Nitrobenzene-d5	8.981	82	8790	5.209	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	14382	5.041	ng	0.00
14) 2,4,6-Tribromophenol	15.956	330	3002	5.726	ng	0.00
15) 2-Fluorobiphenyl	13.093	172	24046	5.018	ng	0.00
27) Fluoranthene-d10	19.238	212	27229	5.214	ng	0.00
31) Terphenyl-d14	19.837	244	19033	4.901	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.322	88	5423	4.740	ng	98
3) n-Nitrosodimethylamine	3.618	42	9967	4.993	ng	# 97
6) bis(2-Chloroethyl)ether	7.250	93	12664	4.736	ng	99
9) Naphthalene	10.679	128	30381	5.079	ng	95
10) Hexachlorobutadiene	10.978	225	9822	5.057	ng	# 99
12) 2-Methylnaphthalene	12.293	142	19239	5.198	ng	98
16) Acenaphthylene	14.184	152	26794	5.210	ng	100
17) Acenaphthene	14.526	154	17619	5.226	ng	96
18) Fluorene	15.509	166	19548	5.269	ng	99
20) 4,6-Dinitro-2-methylph...	15.571	198	1944	5.320	ng	# 66
21) 4-Bromophenyl-phenylether	16.403	248	7340	5.088	ng	97
22) Hexachlorobenzene	16.515	284	9749	4.956	ng	99
23) Atrazine	16.676	200	5084	5.253	ng	# 77
24) Pentachlorophenol	16.850	266	4029	5.786	ng	98
25) Phenanthrene	17.247	178	31568	5.142	ng	99
26) Anthracene	17.334	178	29722	5.320	ng	98
28) Fluoranthene	19.266	202	38787	5.420	ng	99
30) Pyrene	19.628	202	39641	5.009	ng	99
32) Benzo(a)anthracene	21.375	228	35712	5.199	ng	97
33) Chrysene	21.419	228	35830	4.987	ng	99
34) Bis(2-ethylhexyl)phtha...	21.330	149	12924	4.623	ng	# 99
36) Indeno(1,2,3-cd)pyrene	26.050	276	44269	5.549	ng	98
37) Benzo(b)fluoranthene	22.998	252	36590	5.265	ng	# 93
38) Benzo(k)fluoranthene	23.045	252	37476	5.447	ng	# 92
39) Benzo(a)pyrene	23.592	252	32476	5.398	ng	# 89
40) Dibenzo(a,h)anthracene	26.071	278	35448	5.585	ng	92
41) Benzo(g,h,i)perylene	26.770	276	38678	5.450	ng	92

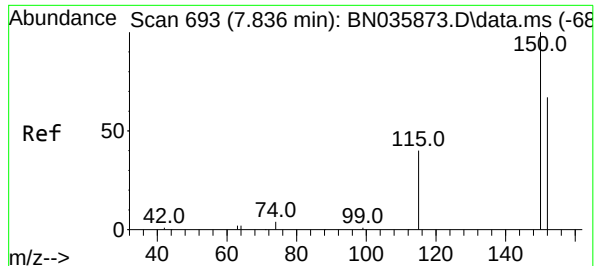
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
Data File : BN035877.D
Acq On : 02 Jan 2025 15:04
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Jan 02 15:51:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

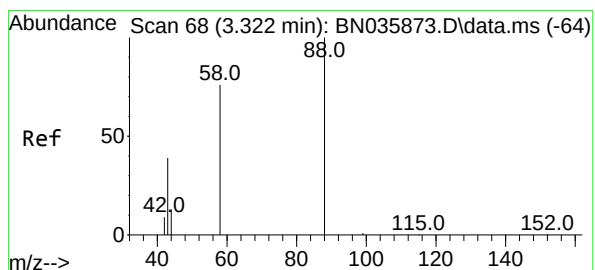
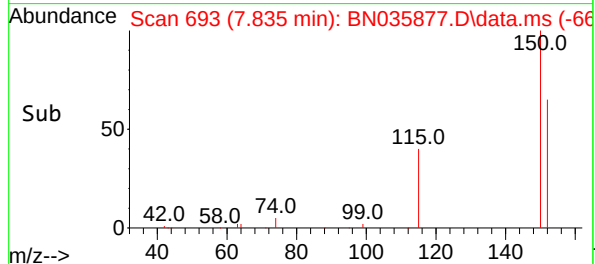
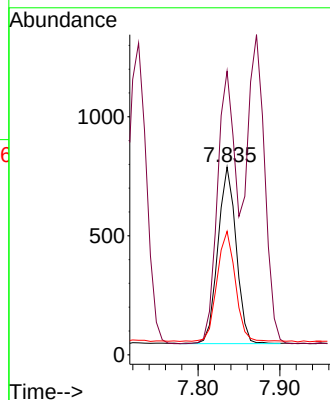
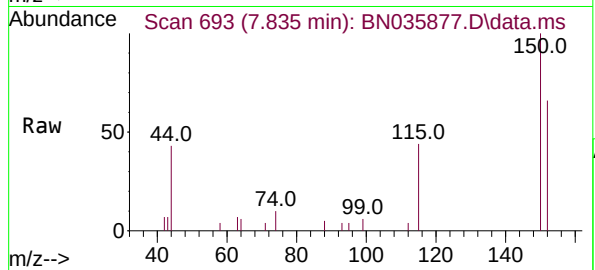




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.835 min Scan# 69
Delta R.T. -0.001 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

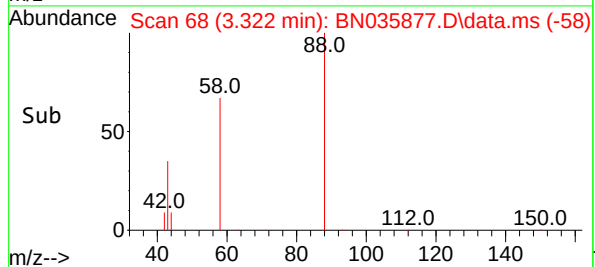
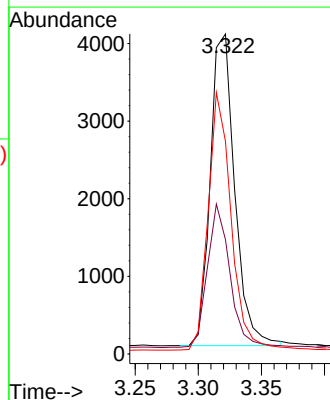
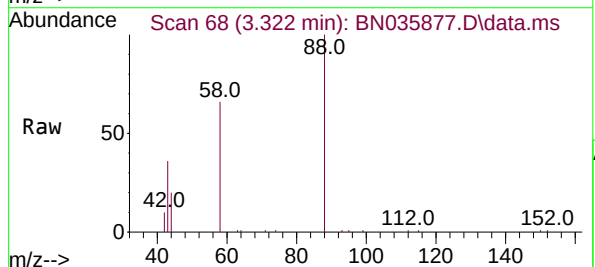
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

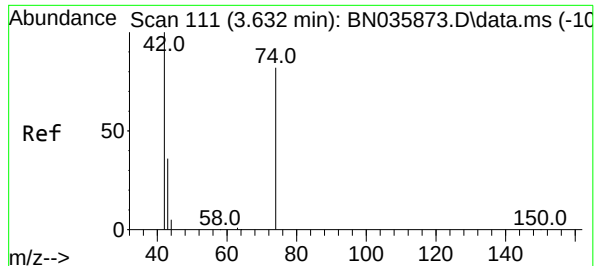
Tgt Ion:152 Resp: 1152
Ion Ratio Lower Upper
152 100
150 151.1 117.8 176.6
115 65.8 51.0 76.4



#2
1,4-Dioxane
Concen: 4.740 ng
RT: 3.322 min Scan# 68
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

Tgt Ion: 88 Resp: 5423
Ion Ratio Lower Upper
88 100
43 42.6 32.7 49.1
58 77.3 63.0 94.4

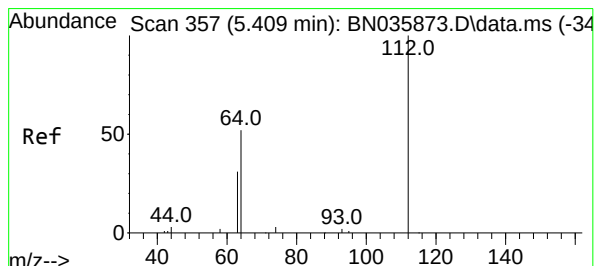
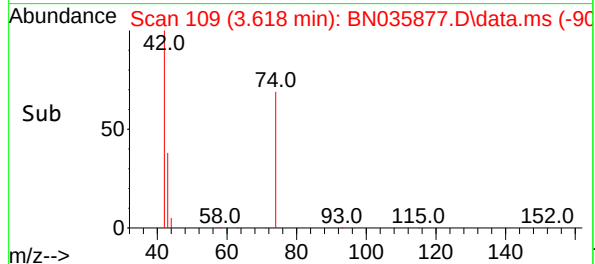
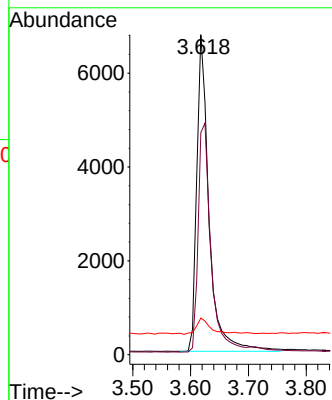
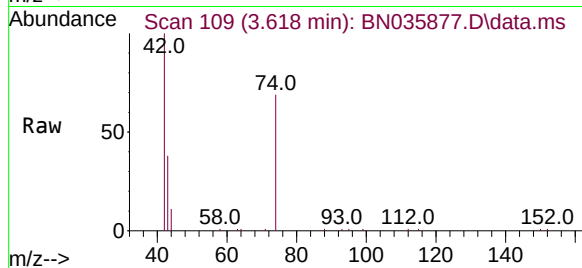




#3
n-Nitrosodimethylamine
Concen: 4.993 ng
RT: 3.618 min Scan# 109
Delta R.T. -0.015 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

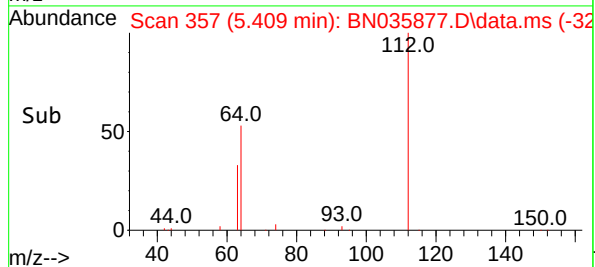
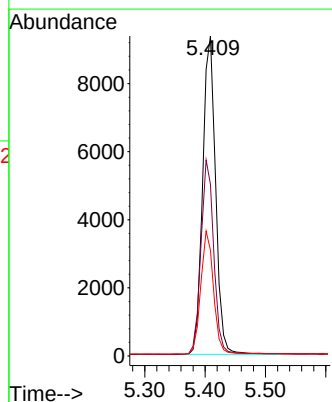
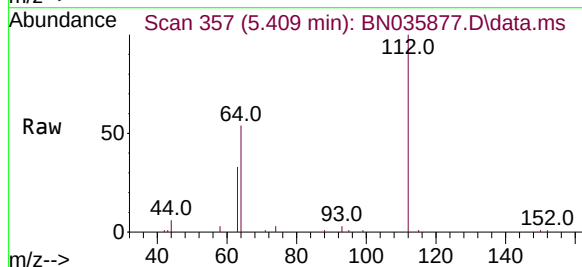
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

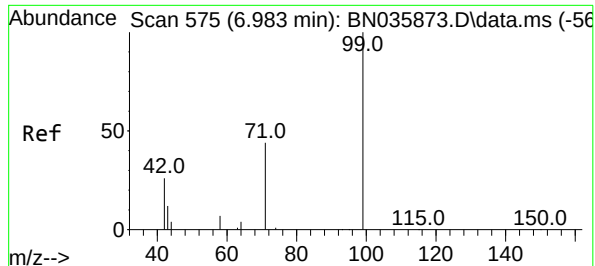
Tgt Ion: 42 Resp: 9967
Ion Ratio Lower Upper
42 100
74 75.3 62.2 93.2
44 5.7 7.1 10.7#



#4
2-Fluorophenol
Concen: 4.933 ng
RT: 5.409 min Scan# 357
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

Tgt Ion: 112 Resp: 13943
Ion Ratio Lower Upper
112 100
64 61.0 48.2 72.2
63 38.4 30.0 45.0

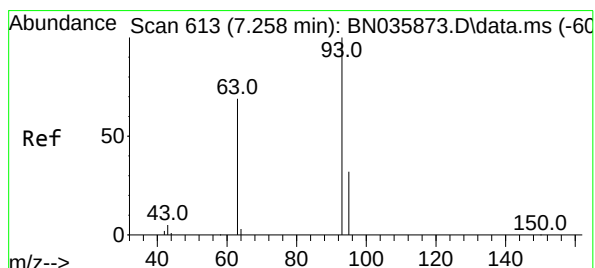
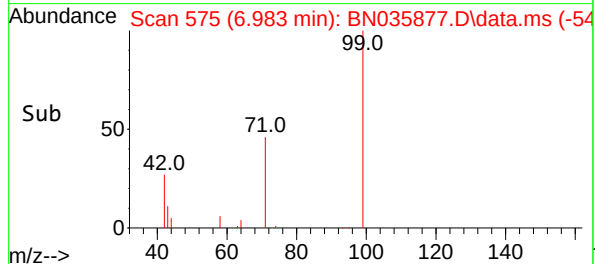
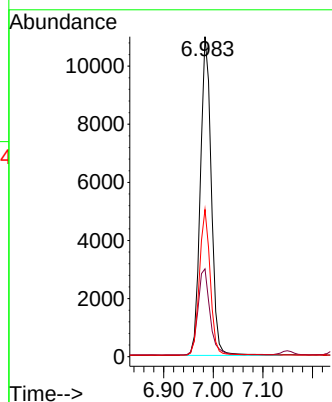
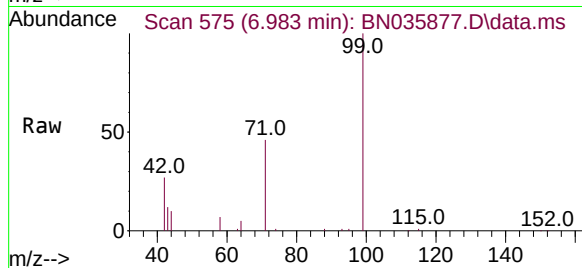




#5
Phenol-d6
Concen: 4.798 ng
RT: 6.983 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

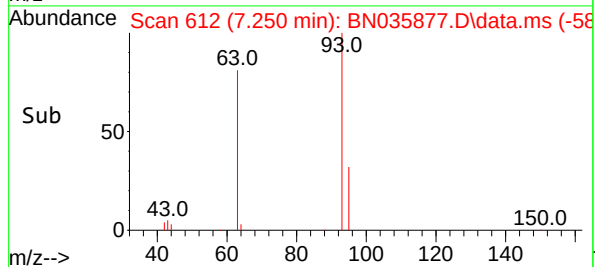
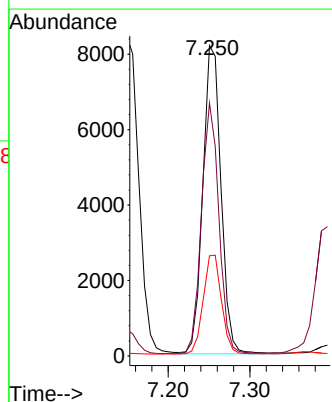
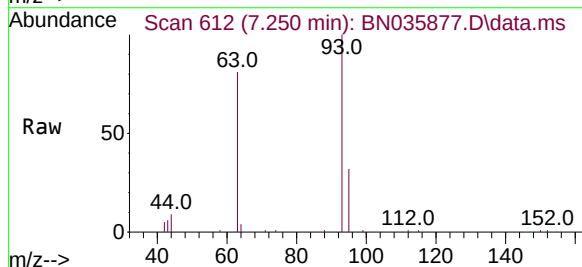
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

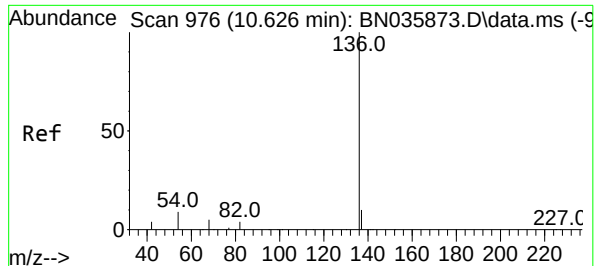
Tgt Ion: 99 Resp: 16841
Ion Ratio Lower Upper
99 100
42 29.5 23.5 35.3
71 45.5 35.5 53.3



#6
bis(2-Chloroethyl)ether
Concen: 4.736 ng
RT: 7.250 min Scan# 612
Delta R.T. -0.007 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

Tgt Ion: 93 Resp: 12664
Ion Ratio Lower Upper
93 100
63 78.3 62.0 93.0
95 32.4 25.5 38.3

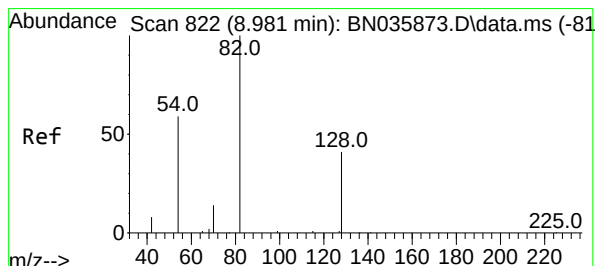
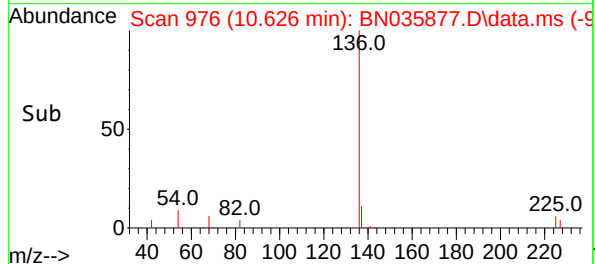
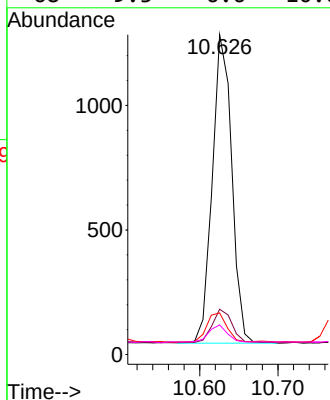
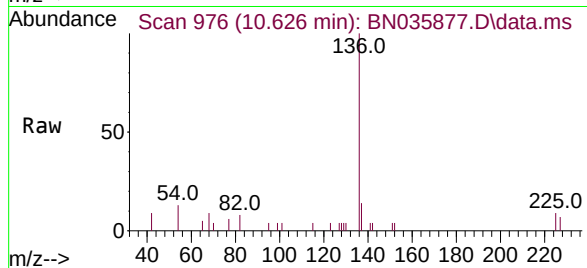




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

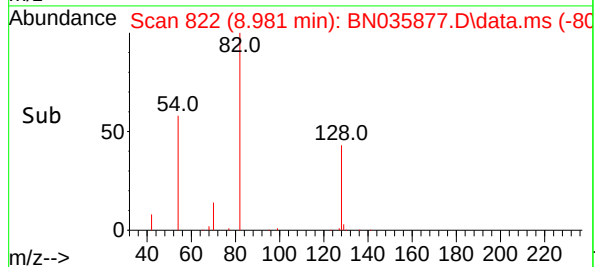
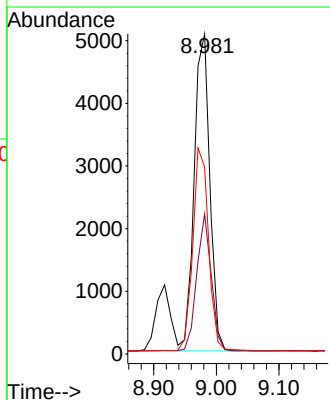
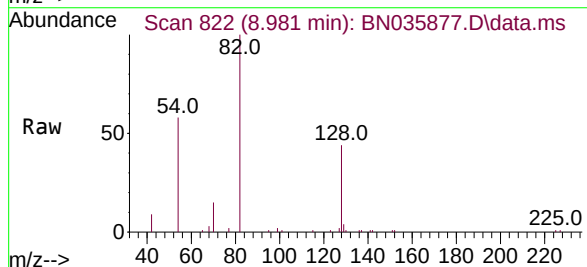
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

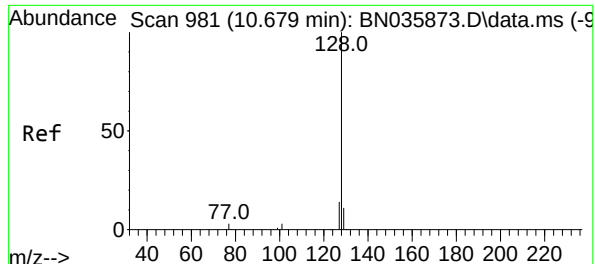
Tgt Ion:	136	Resp:	2131
Ion	Ratio	Lower	Upper
136	100		
137	14.2	10.6	15.8
54	13.0	9.8	14.6
68	9.3	6.6	10.0



#8
Nitrobenzene-d5
Concen: 5.209 ng
RT: 8.981 min Scan# 822
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

Tgt Ion:	82	Resp:	8790
Ion	Ratio	Lower	Upper
82	100		
128	43.7	36.9	55.3
54	58.5	50.4	75.6

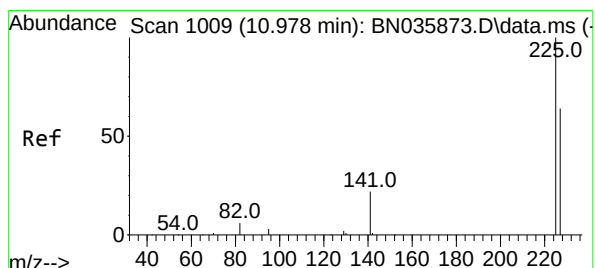
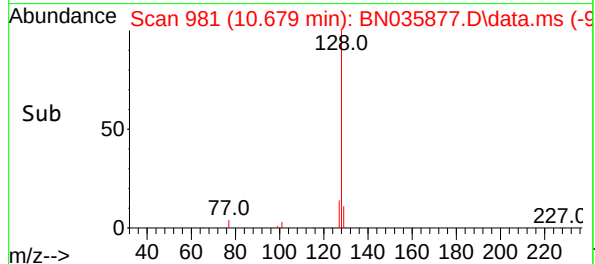
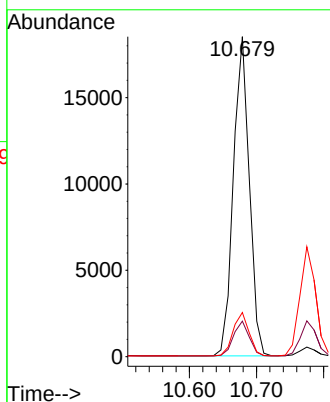
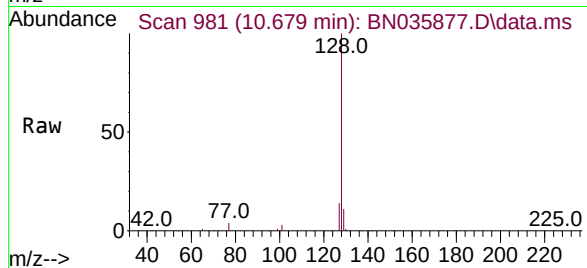




#9
Naphthalene
Concen: 5.079 ng
RT: 10.679 min Scan# 981
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

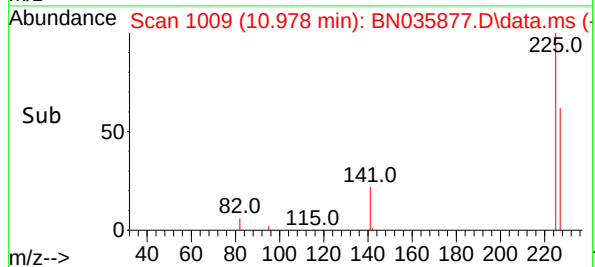
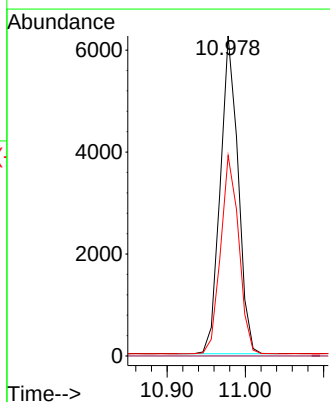
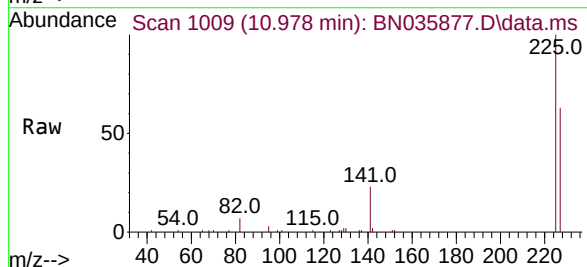
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

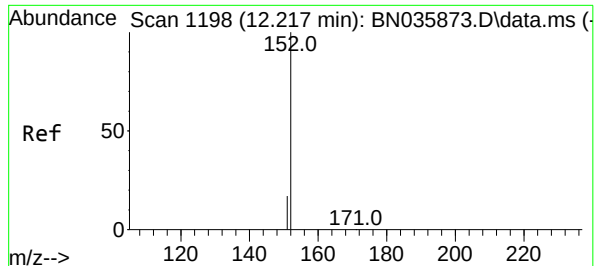
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.1	10.6	16.0
127	13.8	12.8	19.2



#10
Hexachlorobutadiene
Concen: 5.057 ng
RT: 10.978 min Scan# 1009
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.3	51.5	77.3

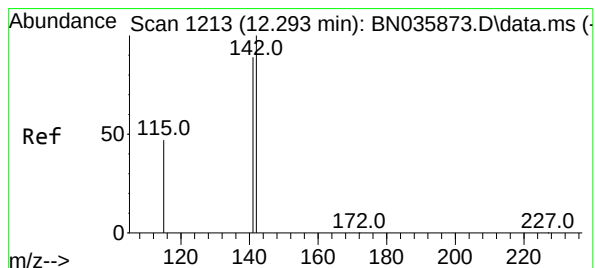
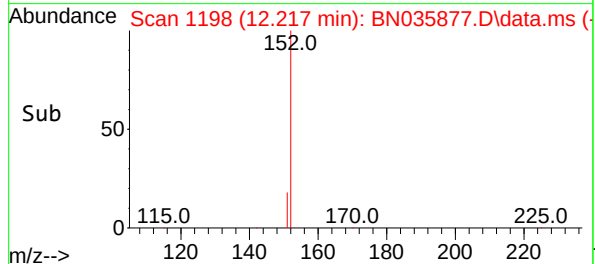
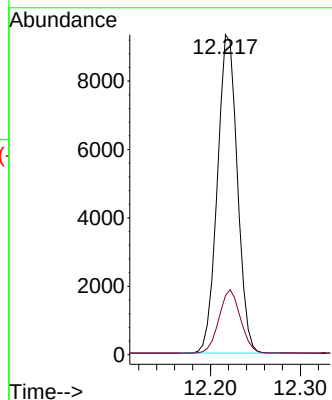
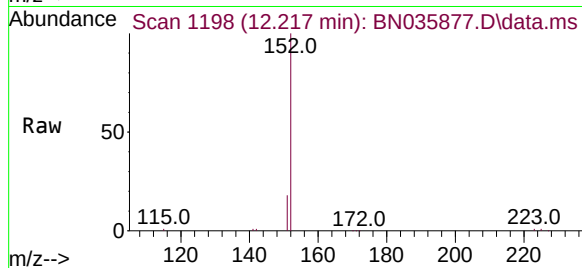




#11
2-Methylnaphthalene-d10
Concen: 5.041 ng
RT: 12.217 min Scan# 1198
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

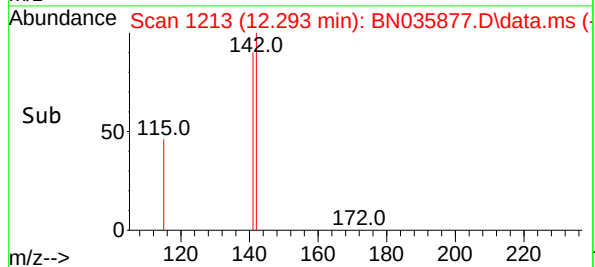
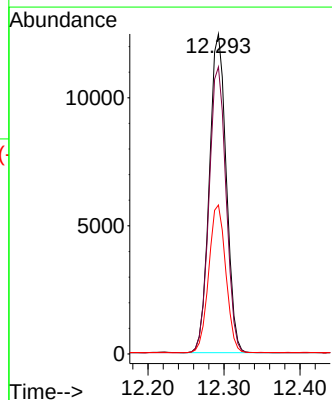
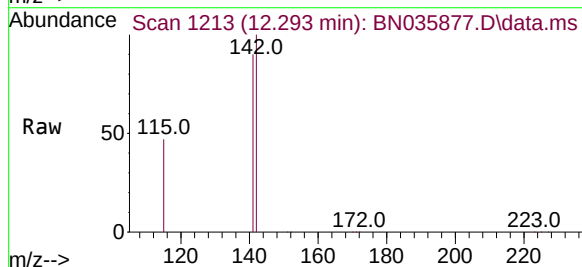
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

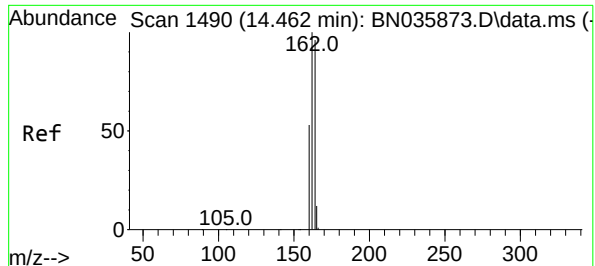
Tgt Ion:152 Resp: 14382
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#12
2-Methylnaphthalene
Concen: 5.198 ng
RT: 12.293 min Scan# 1213
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

Tgt Ion:142 Resp: 19239
Ion Ratio Lower Upper
142 100
141 89.7 71.9 107.9
115 46.5 39.6 59.4

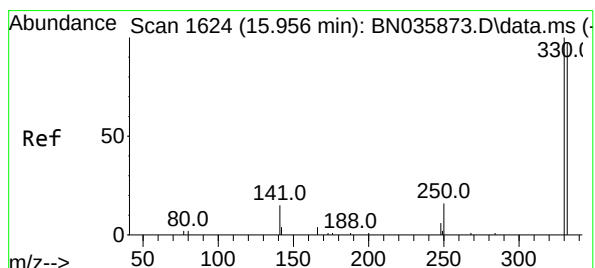
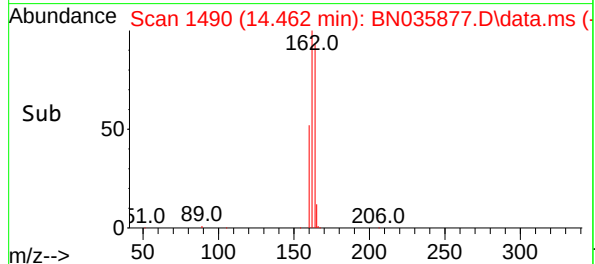
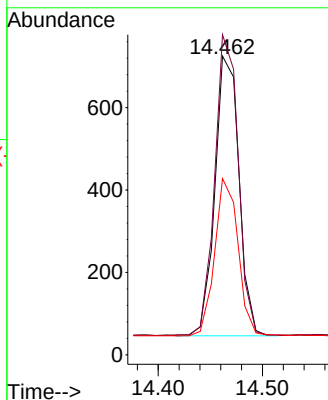
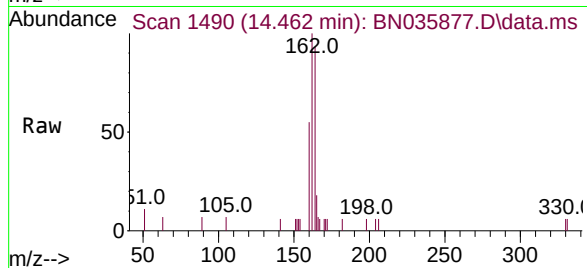




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.462 min Scan# 1490
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

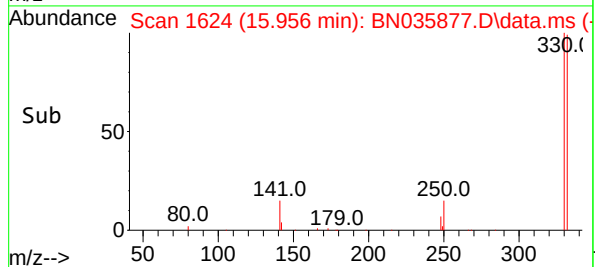
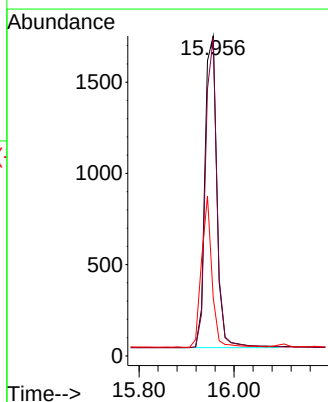
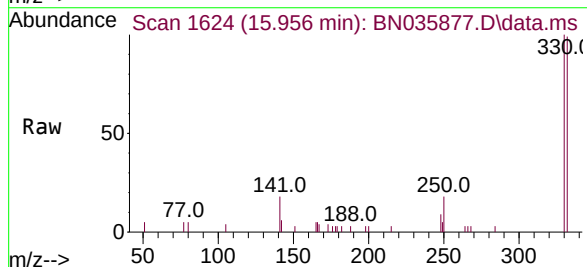
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

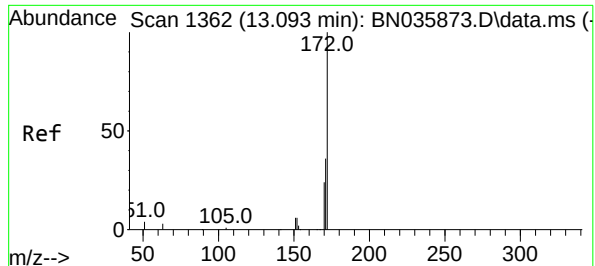
Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.2	83.1	124.7
160	59.0	46.0	69.0



#14
2,4,6-Tribromophenol
Concen: 5.726 ng
RT: 15.956 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.6	77.2	115.8
141	42.7	31.6	47.4

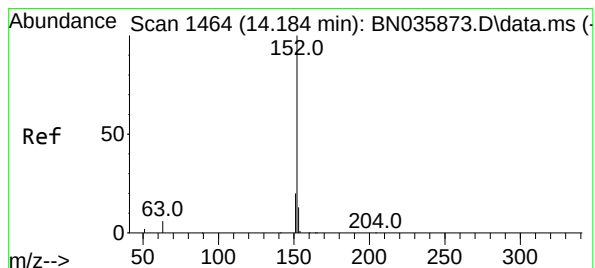
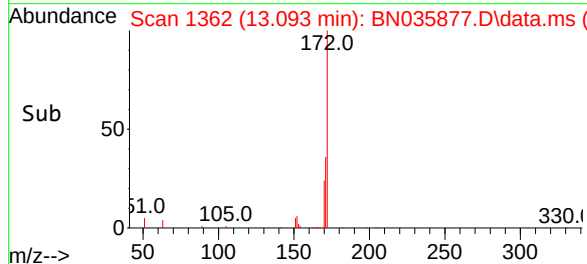
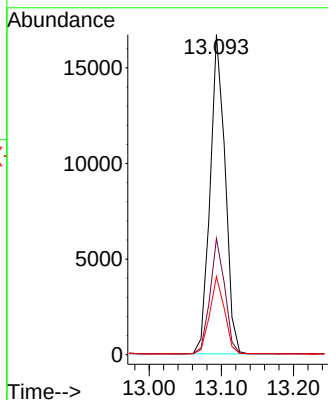
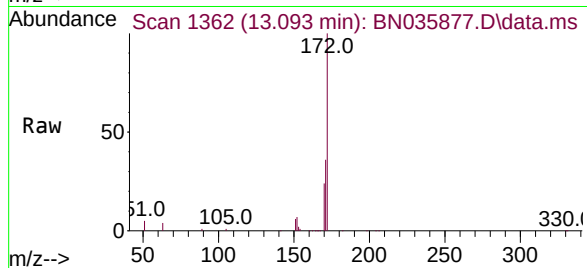




#15
2-Fluorobiphenyl
Concen: 5.018 ng
RT: 13.093 min Scan# 1362
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

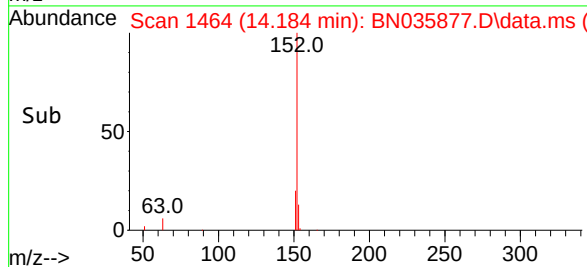
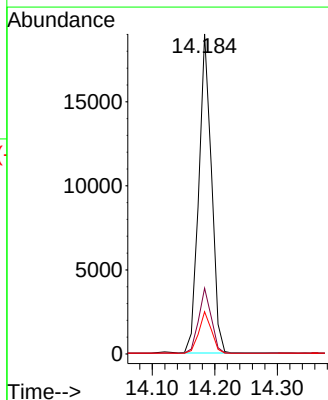
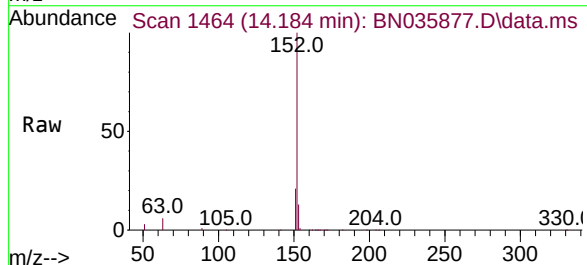
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

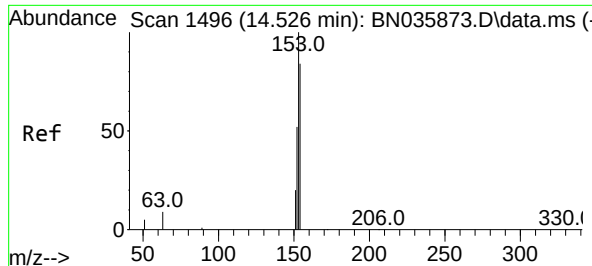
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.3	30.5	45.7
170	24.4	20.8	31.2



#16
Acenaphthylene
Concen: 5.210 ng
RT: 14.184 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.3	24.5
153	12.9	10.6	15.8

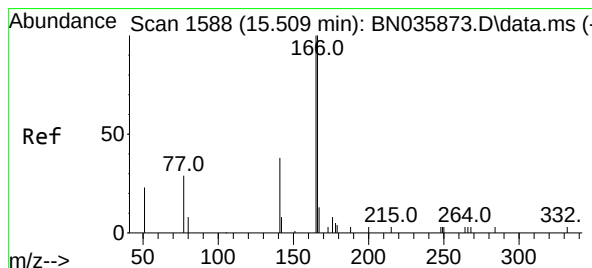
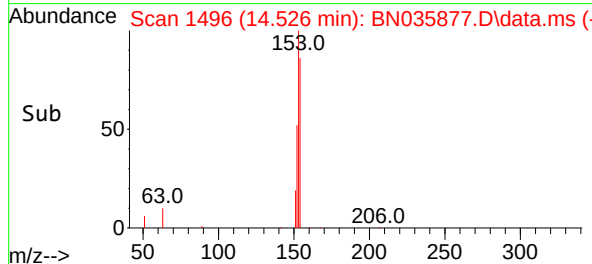
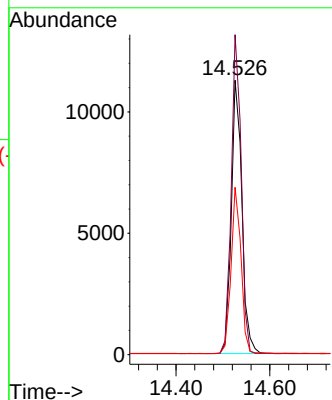
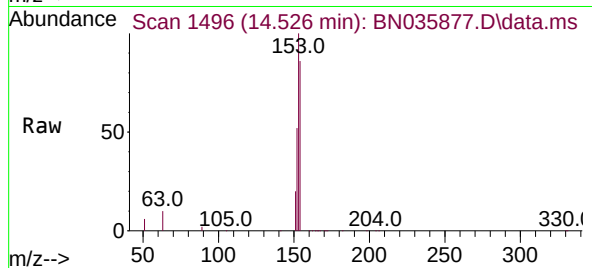




#17
Acenaphthene
Concen: 5.226 ng
RT: 14.526 min Scan# 1496
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

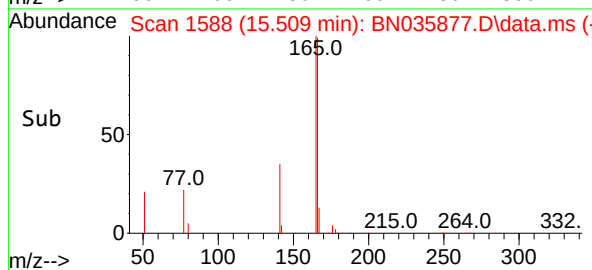
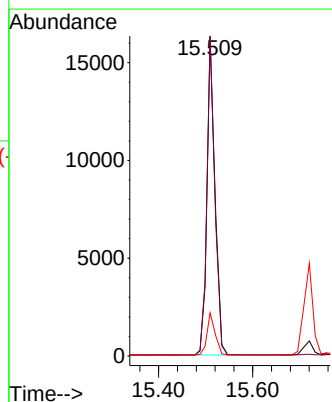
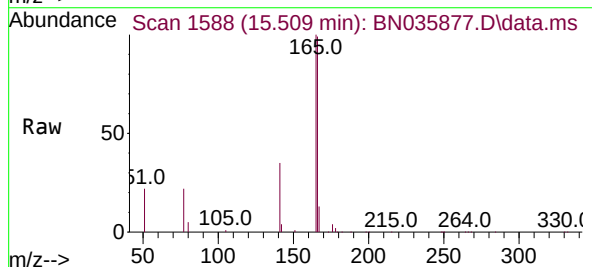
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

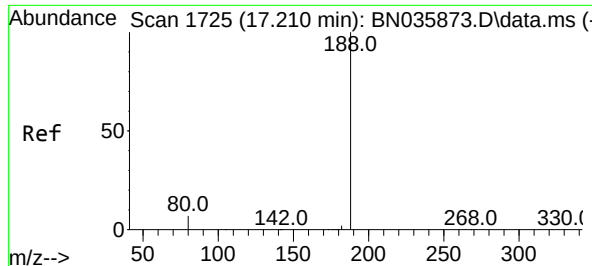
Tgt Ion:154 Resp: 17619
Ion Ratio Lower Upper
154 100
153 109.7 90.5 135.7
152 57.3 48.6 73.0



#18
Fluorene
Concen: 5.269 ng
RT: 15.509 min Scan# 1588
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

Tgt Ion:166 Resp: 19548
Ion Ratio Lower Upper
166 100
165 99.6 80.6 120.8
167 12.9 11.4 17.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.210 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035877.D

Acq: 02 Jan 2025 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

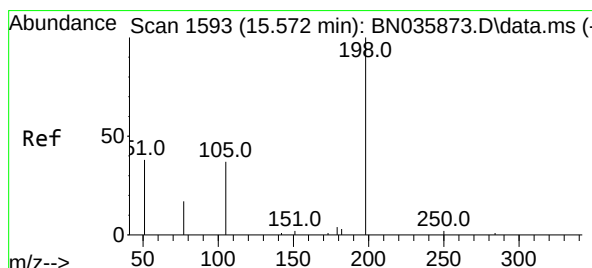
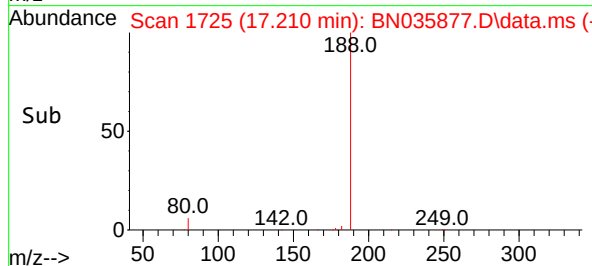
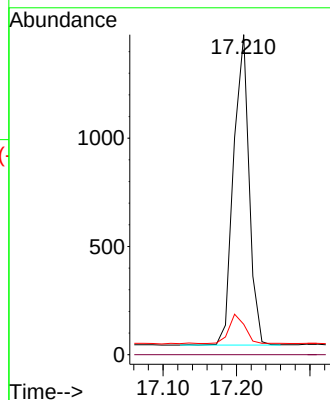
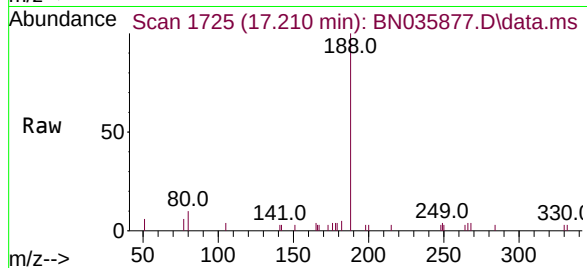
Tgt Ion:188 Resp: 2104

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.5 7.3 10.9



#20

4,6-Dinitro-2-methylphenol

Concen: 5.320 ng

RT: 15.571 min Scan# 1593

Delta R.T. -0.000 min

Lab File: BN035877.D

Acq: 02 Jan 2025 15:04

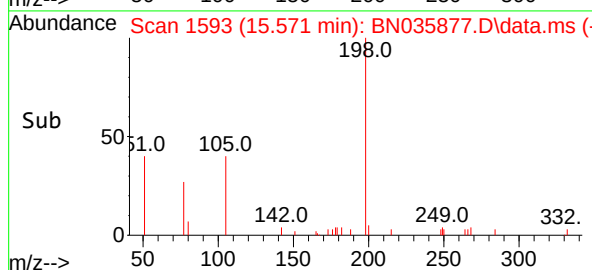
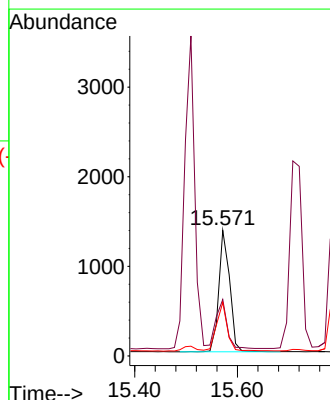
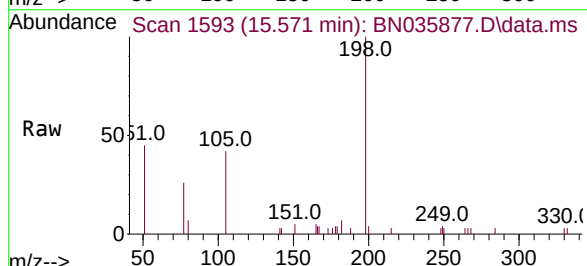
Tgt Ion:198 Resp: 1944

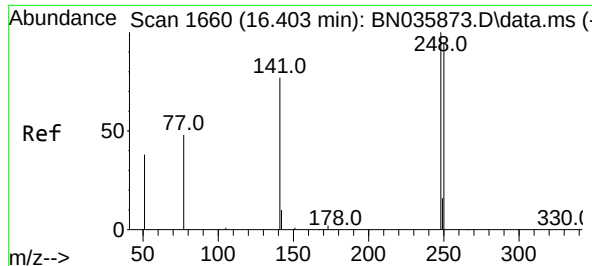
Ion Ratio Lower Upper

198 100

51 44.9 64.3 96.5#

105 42.5 50.0 75.0#





#21

4-Bromophenyl-phenylether

Concen: 5.088 ng

RT: 16.403 min Scan# 1660

Delta R.T. -0.000 min

Lab File: BN035877.D

Acq: 02 Jan 2025 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

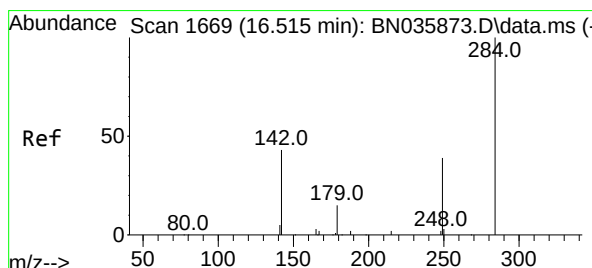
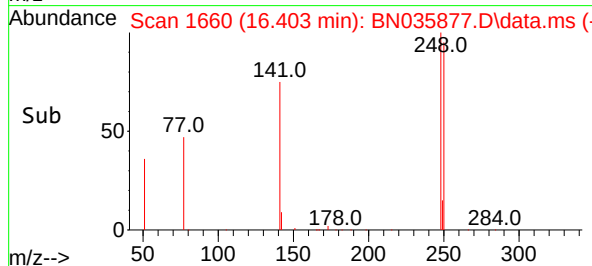
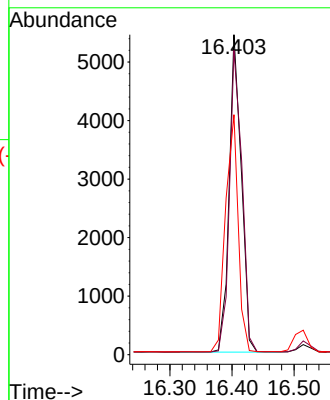
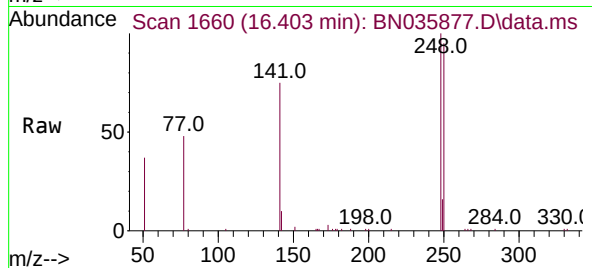
Tgt Ion:248 Resp: 7340

Ion Ratio Lower Upper

248 100

250 95.1 76.8 115.2

141 75.0 63.6 95.4



#22

Hexachlorobenzene

Concen: 4.956 ng

RT: 16.515 min Scan# 1669

Delta R.T. -0.000 min

Lab File: BN035877.D

Acq: 02 Jan 2025 15:04

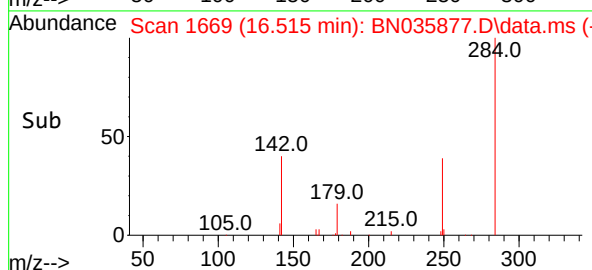
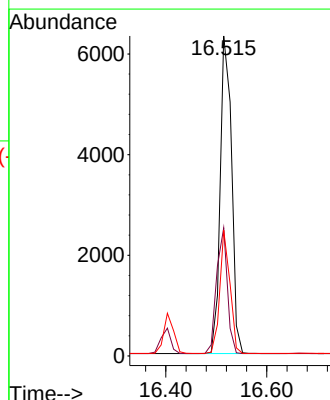
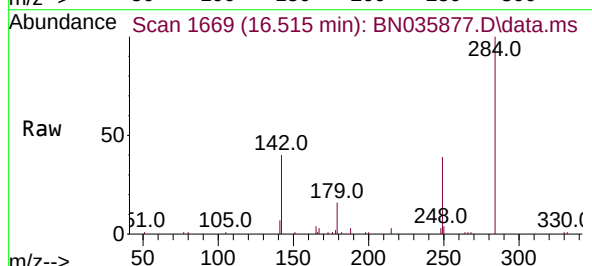
Tgt Ion:284 Resp: 9749

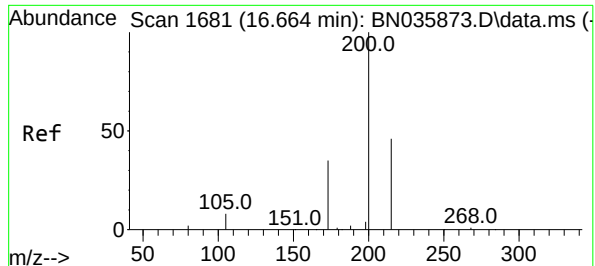
Ion Ratio Lower Upper

284 100

142 37.8 31.4 47.0

249 34.7 27.8 41.8

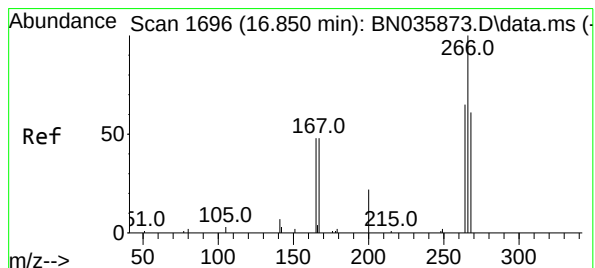
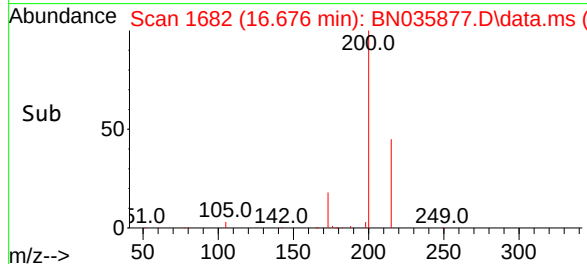
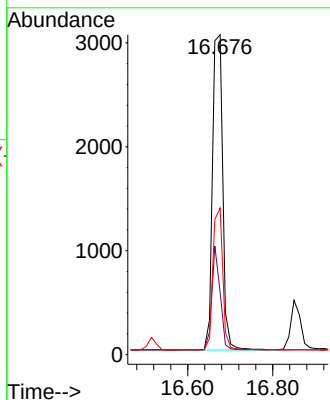
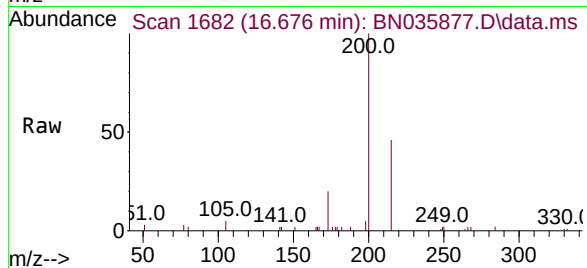




#23
Atrazine
Concen: 5.253 ng
RT: 16.676 min Scan# 1682
Delta R.T. 0.012 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

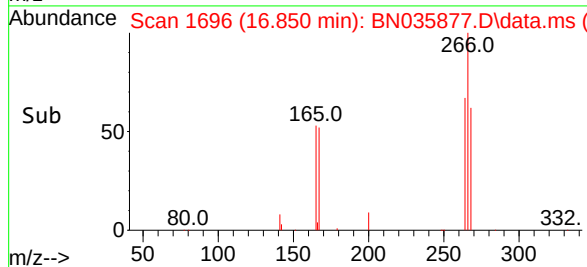
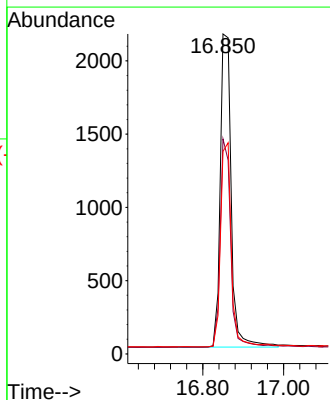
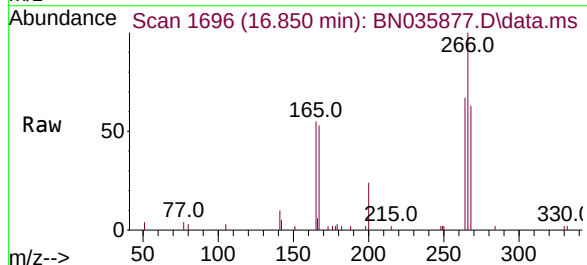
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

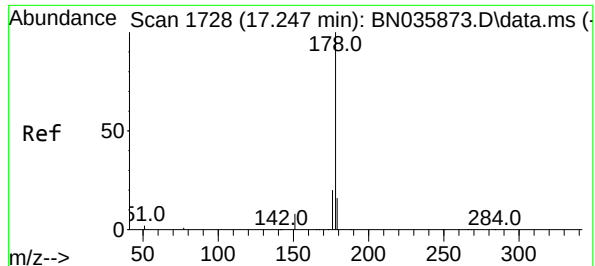
Tgt Ion:200 Resp: 5084
Ion Ratio Lower Upper
200 100
173 19.6 35.4 53.0#
215 45.8 42.4 63.6



#24
Pentachlorophenol
Concen: 5.786 ng
RT: 16.850 min Scan# 1696
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

Tgt Ion:266 Resp: 4029
Ion Ratio Lower Upper
266 100
264 63.7 49.9 74.9
268 63.9 50.2 75.2

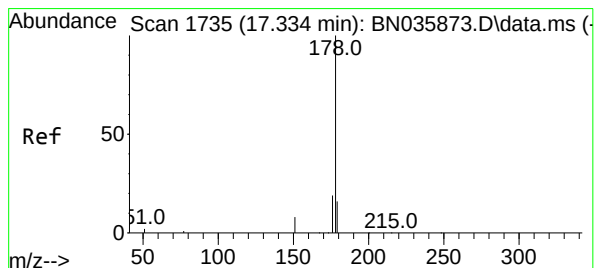
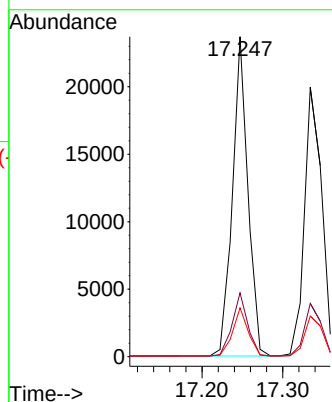
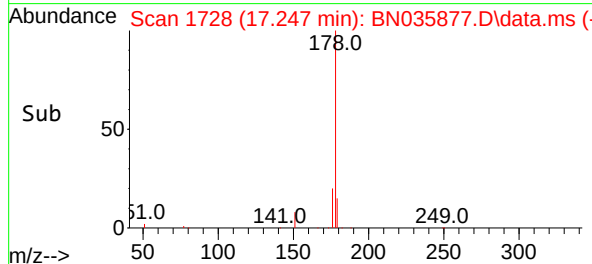
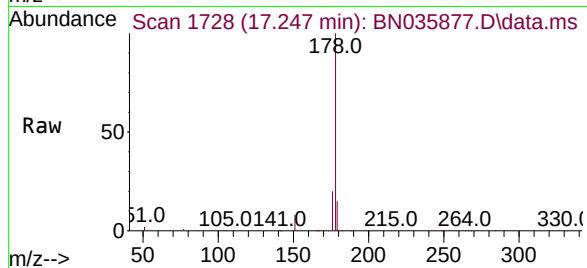




#25
Phenanthrene
Concen: 5.142 ng
RT: 17.247 min Scan# 1728
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

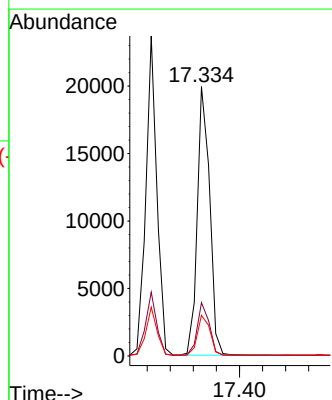
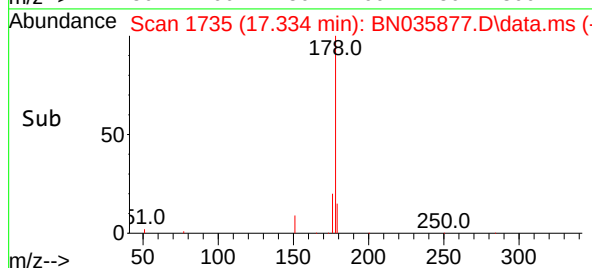
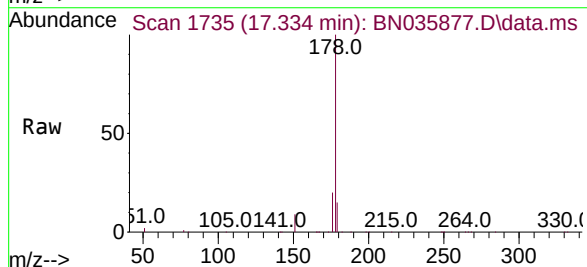
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

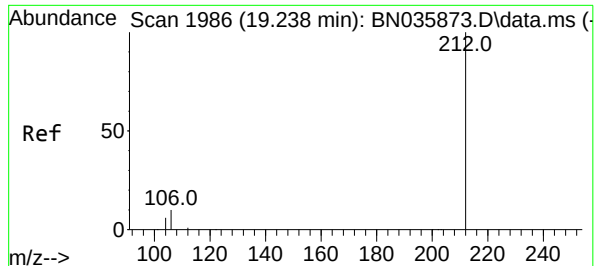
Tgt Ion:178 Resp: 31568
Ion Ratio Lower Upper
178 100
176 19.8 15.9 23.9
179 15.0 12.9 19.3



#26
Anthracene
Concen: 5.320 ng
RT: 17.334 min Scan# 1735
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

Tgt Ion:178 Resp: 29722
Ion Ratio Lower Upper
178 100
176 19.2 15.0 22.6
179 15.2 13.0 19.6





#27

Fluoranthene-d10

Concen: 5.214 ng

RT: 19.238 min Scan# 1986

Delta R.T. -0.000 min

Lab File: BN035877.D

Acq: 02 Jan 2025 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

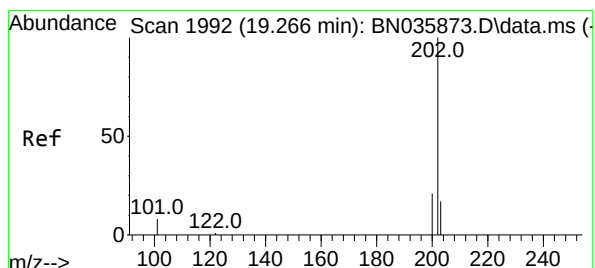
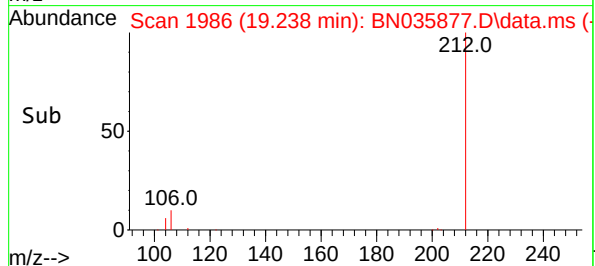
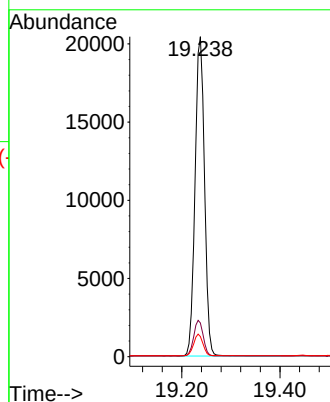
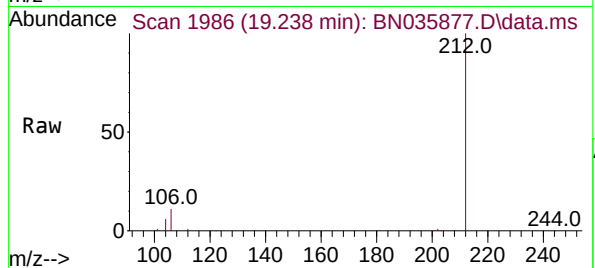
Tgt Ion:212 Resp: 27229

Ion Ratio Lower Upper

212 100

106 11.2 9.0 13.6

104 6.7 5.4 8.2



#28

Fluoranthene

Concen: 5.420 ng

RT: 19.266 min Scan# 1992

Delta R.T. -0.000 min

Lab File: BN035877.D

Acq: 02 Jan 2025 15:04

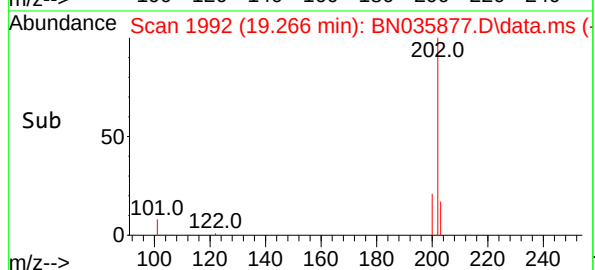
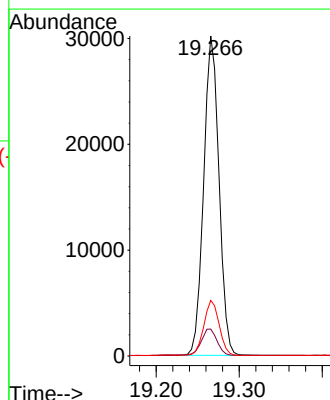
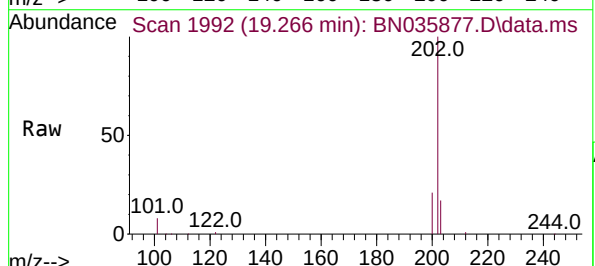
Tgt Ion:202 Resp: 38787

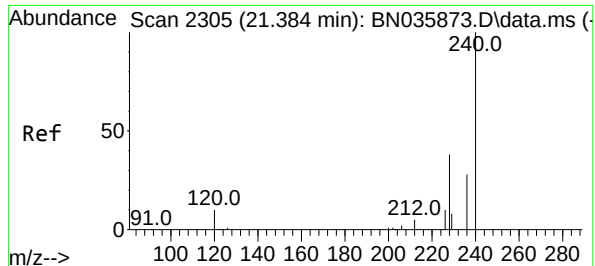
Ion Ratio Lower Upper

202 100

101 8.7 7.2 10.8

203 17.2 13.9 20.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.384 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035877.D

Acq: 02 Jan 2025 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

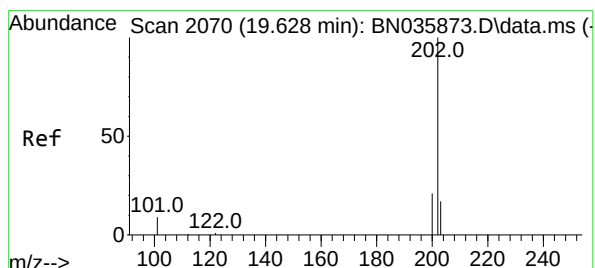
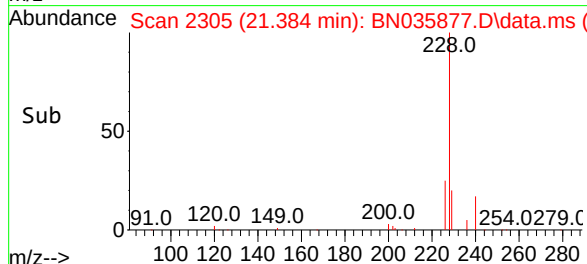
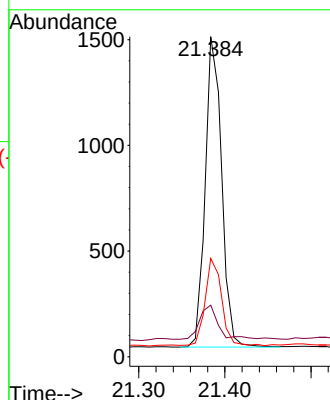
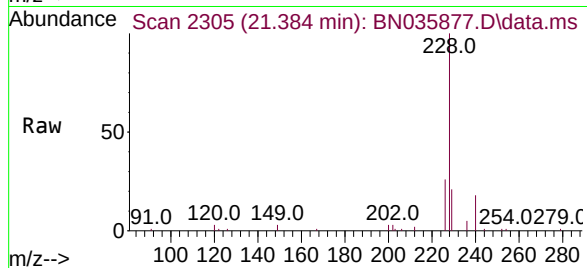
Tgt Ion:240 Resp: 1949

Ion Ratio Lower Upper

240 100

120 16.1 11.1 16.7

236 30.7 24.6 36.8



#30

Pyrene

Concen: 5.009 ng

RT: 19.628 min Scan# 2070

Delta R.T. -0.000 min

Lab File: BN035877.D

Acq: 02 Jan 2025 15:04

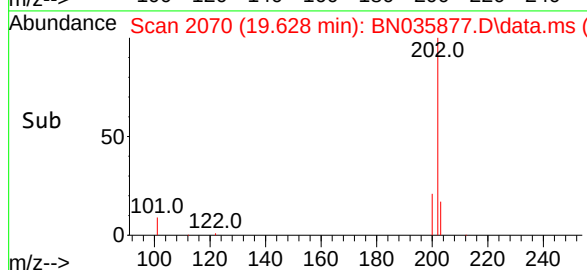
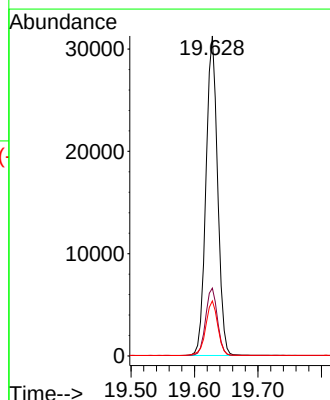
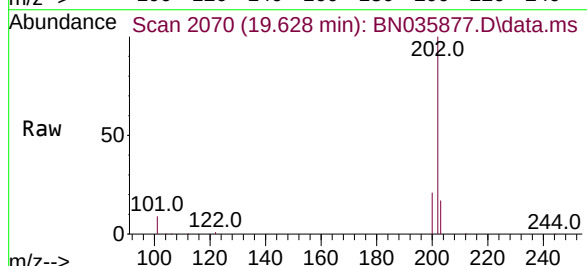
Tgt Ion:202 Resp: 39641

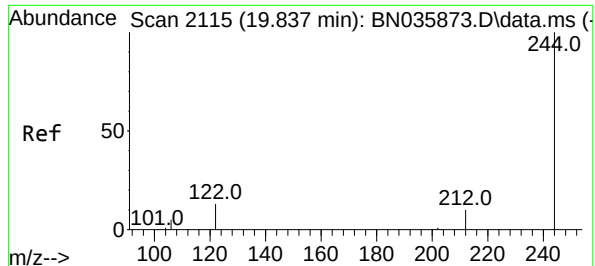
Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.6

203 17.6 14.6 22.0

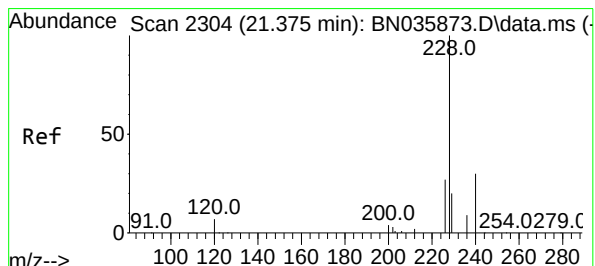
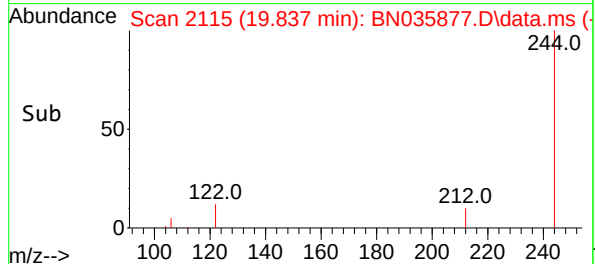
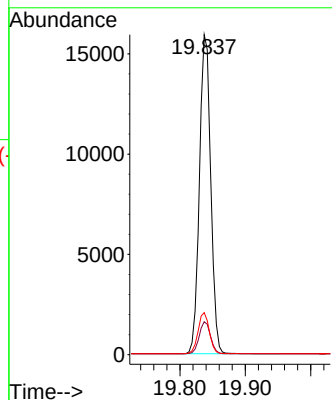
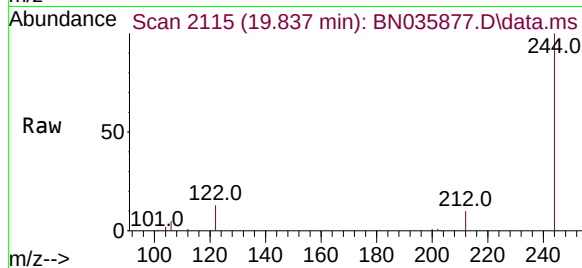




#31
Terphenyl-d14
Concen: 4.901 ng
RT: 19.837 min Scan# 2115
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

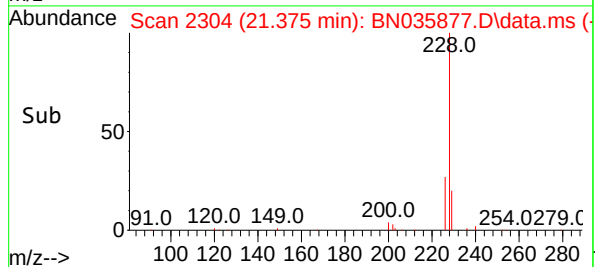
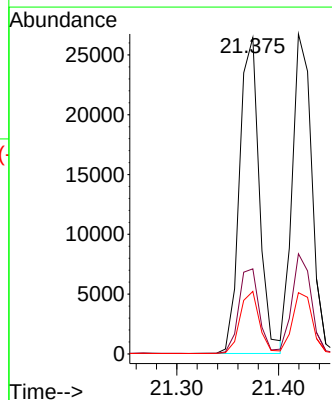
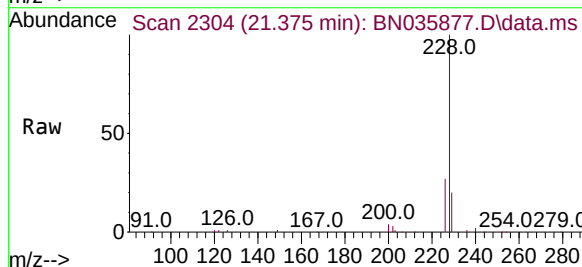
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

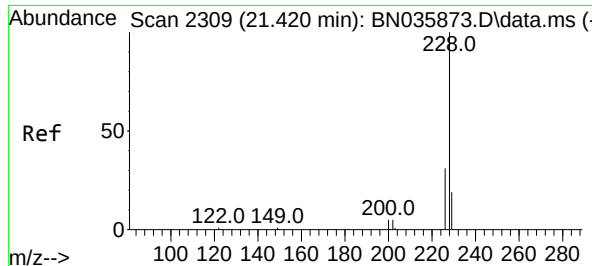
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.3	10.1	15.1
122	13.1	12.2	18.4



#32
Benzo(a)anthracene
Concen: 5.199 ng
RT: 21.375 min Scan# 2304
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.9	22.7	34.1
229	19.8	17.1	25.7





#33

Chrysene

Concen: 4.987 ng

RT: 21.419 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035877.D

Acq: 02 Jan 2025 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

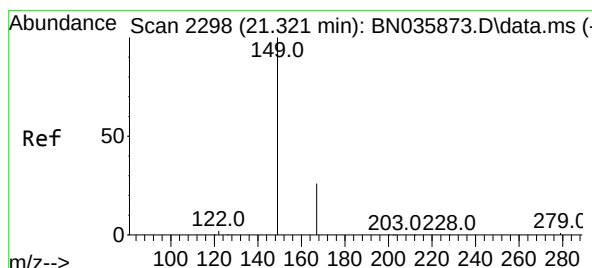
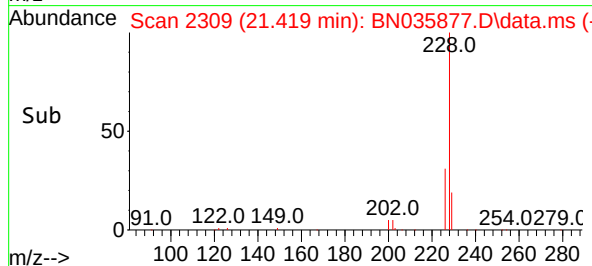
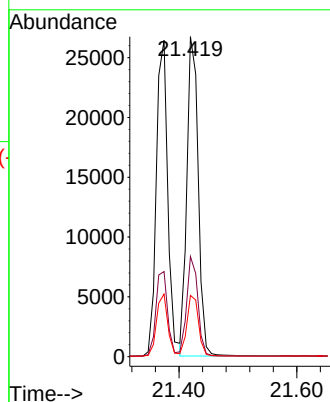
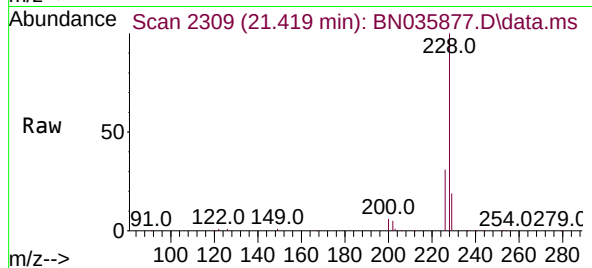
Tgt Ion:228 Resp: 35830

Ion Ratio Lower Upper

228 100

226 31.3 25.2 37.8

229 19.2 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 4.623 ng

RT: 21.330 min Scan# 2299

Delta R.T. 0.009 min

Lab File: BN035877.D

Acq: 02 Jan 2025 15:04

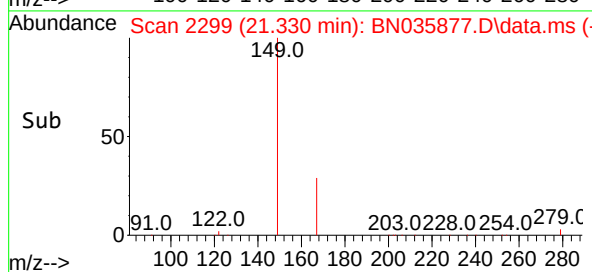
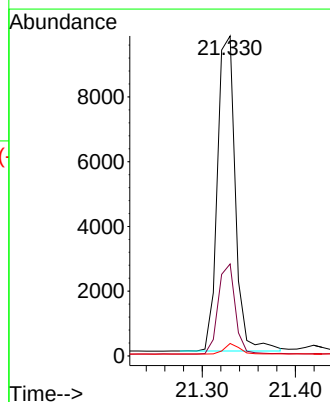
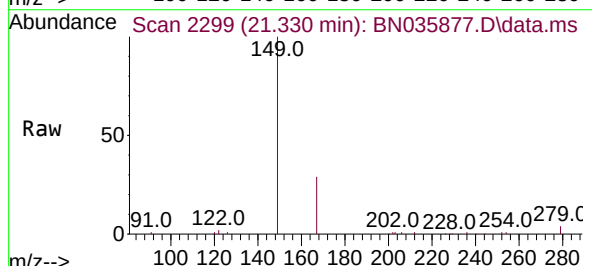
Tgt Ion:149 Resp: 12924

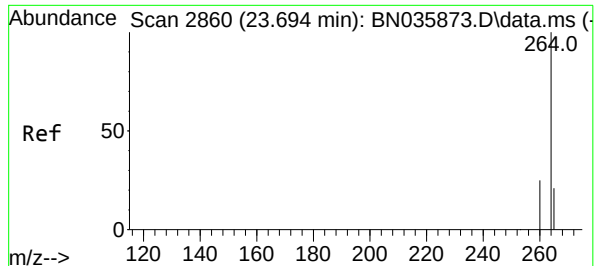
Ion Ratio Lower Upper

149 100

167 27.2 21.4 32.0

279 2.8 3.0 4.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.694 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035877.D

Acq: 02 Jan 2025 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

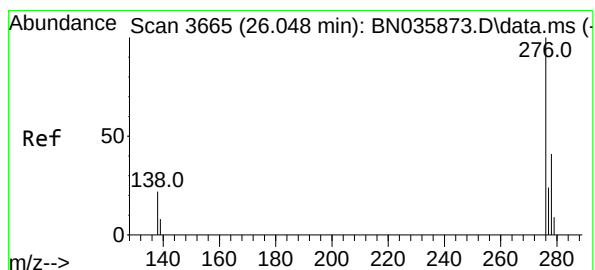
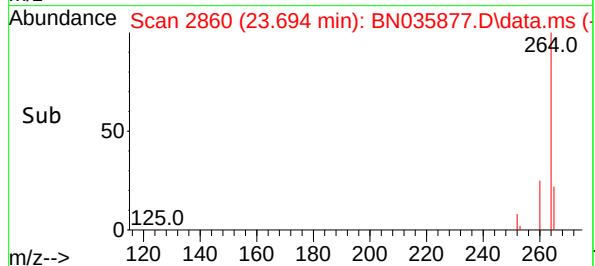
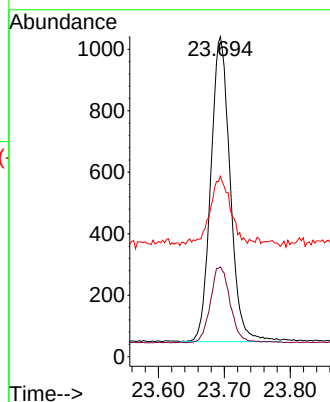
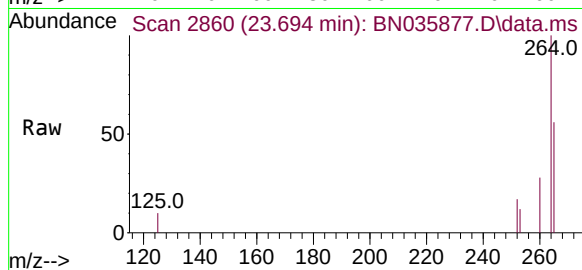
Tgt Ion:264 Resp: 2023

Ion Ratio Lower Upper

264 100

260 28.0 21.7 32.5

265 56.4 33.9 50.9#



#36

Indeno(1,2,3-cd)pyrene

Concen: 5.549 ng

RT: 26.050 min Scan# 3666

Delta R.T. 0.003 min

Lab File: BN035877.D

Acq: 02 Jan 2025 15:04

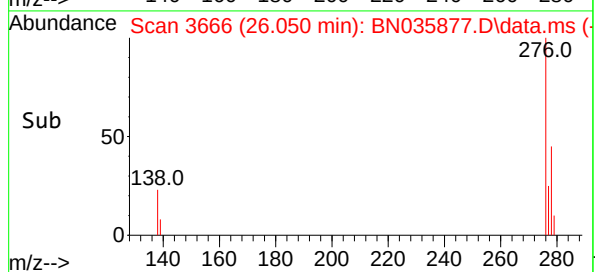
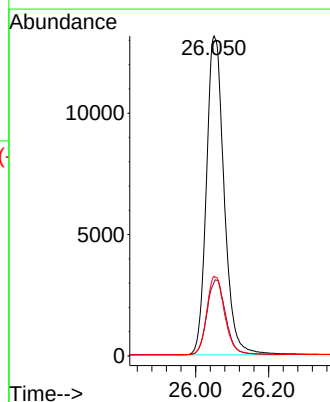
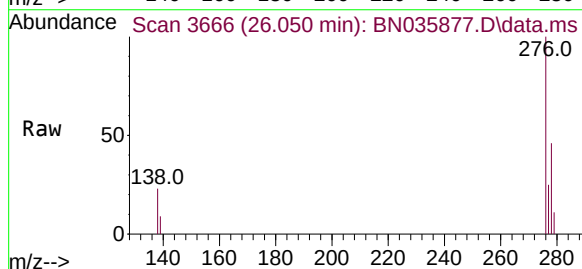
Tgt Ion:276 Resp: 44269

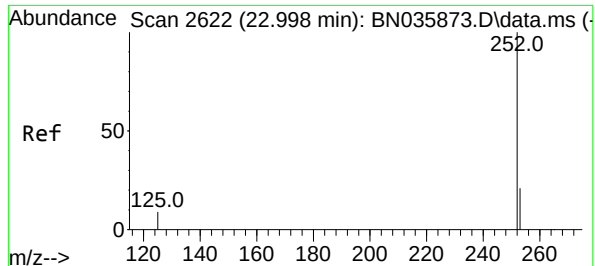
Ion Ratio Lower Upper

276 100

138 24.6 18.9 28.3

277 24.9 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 5.265 ng

RT: 22.998 min Scan# 2622

Delta R.T. -0.000 min

Lab File: BN035877.D

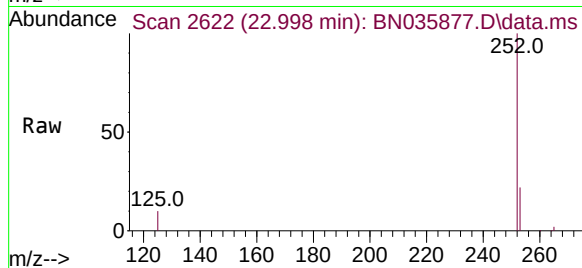
Acq: 02 Jan 2025 15:04

Instrument :

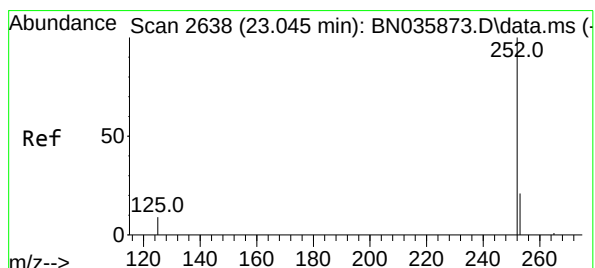
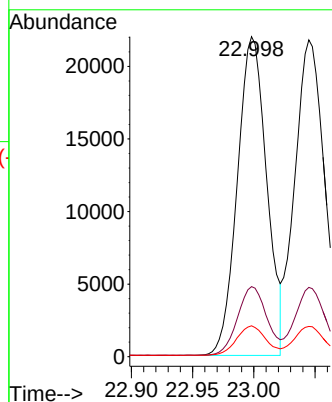
BNA_N

ClientSampleId :

SSTDICC5.0



Tgt Ion:	252	Resp:	36590
Ion Ratio	Lower	Upper	
252	100		
253	21.9	20.1	30.1
125	9.7	9.9	14.9



#38

Benzo(k)fluoranthene

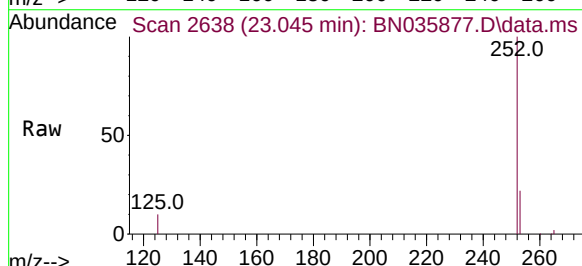
Concen: 5.447 ng

RT: 23.045 min Scan# 2638

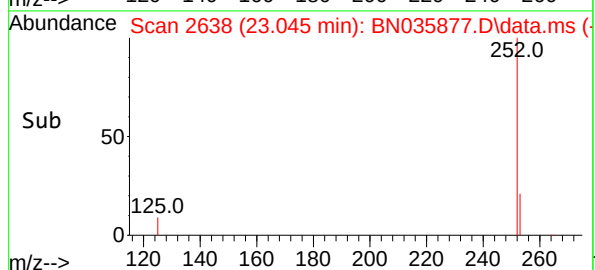
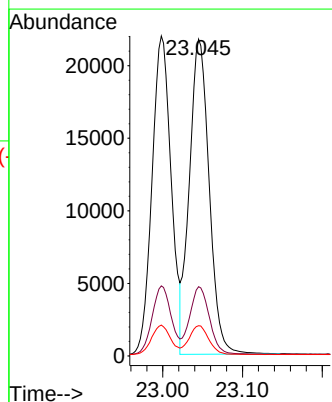
Delta R.T. -0.000 min

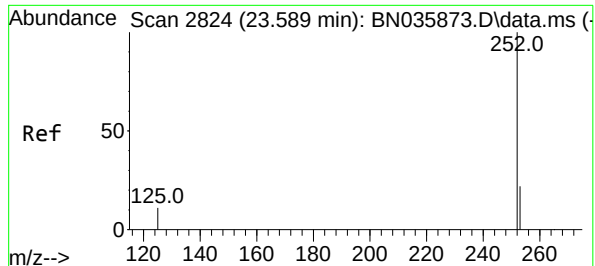
Lab File: BN035877.D

Acq: 02 Jan 2025 15:04



Tgt Ion:	252	Resp:	37476
Ion Ratio	Lower	Upper	
252	100		
253	21.9	20.5	30.7
125	9.5	10.6	16.0





#39

Benzo(a)pyrene

Concen: 5.398 ng

RT: 23.592 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035877.D

Acq: 02 Jan 2025 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

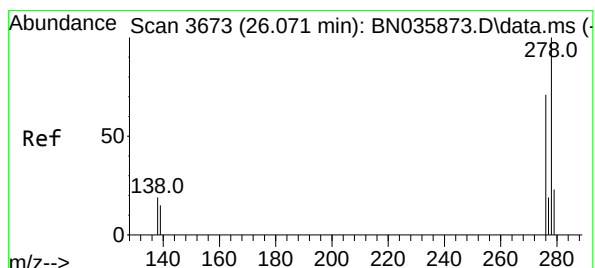
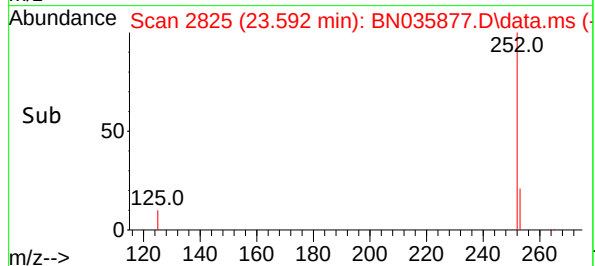
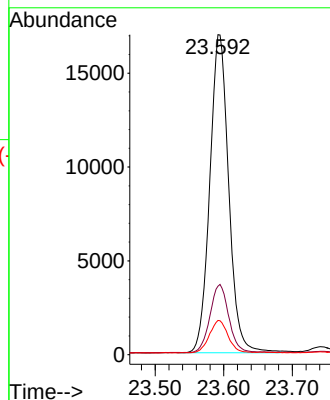
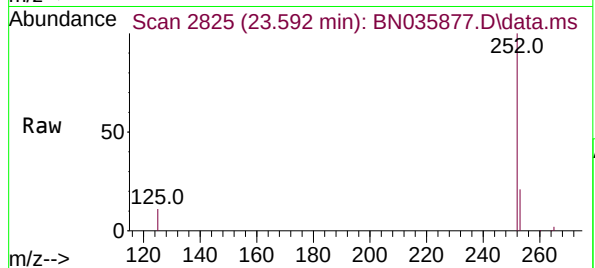
Tgt Ion:252 Resp: 32476

Ion Ratio Lower Upper

252 100

253 21.4 21.5 32.3#

125 10.7 12.6 19.0#



#40

Dibenzo(a,h)anthracene

Concen: 5.585 ng

RT: 26.071 min Scan# 3673

Delta R.T. -0.000 min

Lab File: BN035877.D

Acq: 02 Jan 2025 15:04

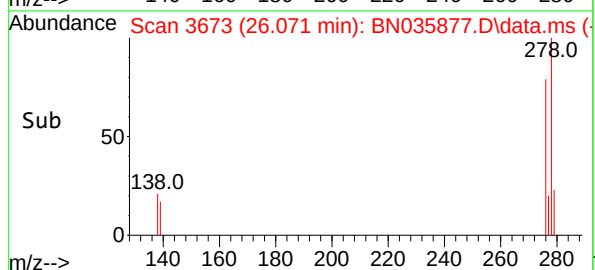
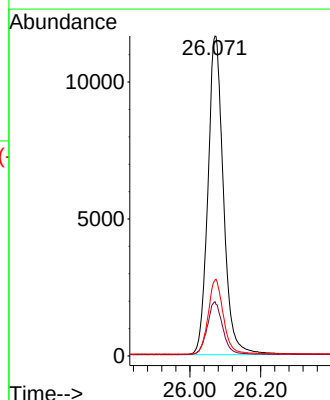
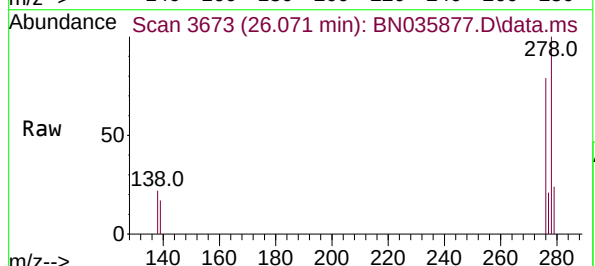
Tgt Ion:278 Resp: 35448

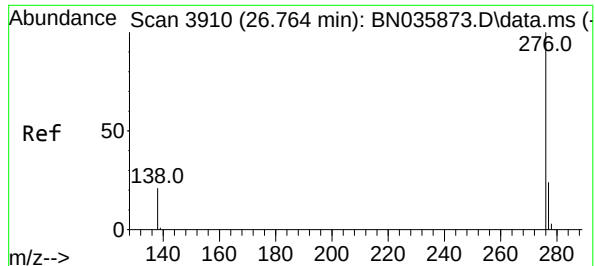
Ion Ratio Lower Upper

278 100

139 17.0 15.9 23.9

279 23.7 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 5.450 ng

RT: 26.770 min Scan# 3912

Delta R.T. 0.006 min

Lab File: BN035877.D

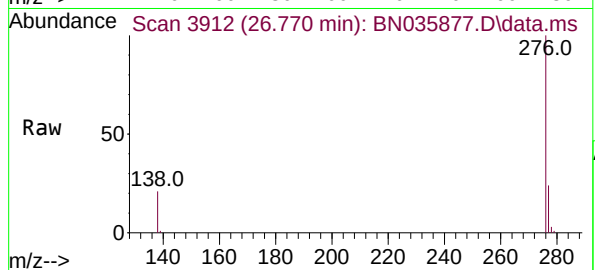
Acq: 02 Jan 2025 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



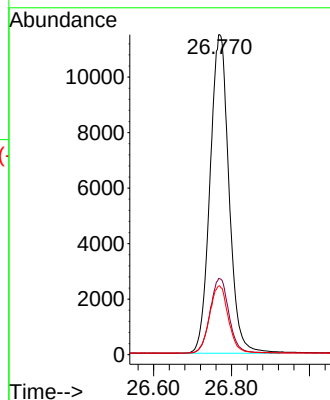
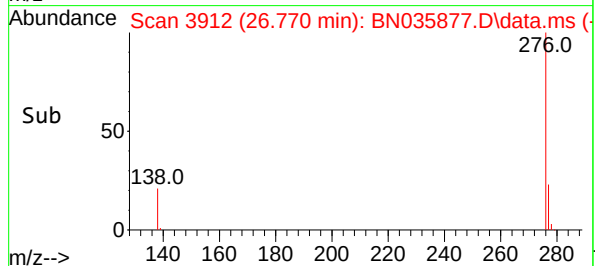
Tgt Ion:276 Resp: 38678

Ion Ratio Lower Upper

276 100

277 23.7 22.8 34.2

138 21.5 20.1 30.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
 Data File : BN035878.D
 Acq On : 02 Jan 2025 15:51
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN010225

Quant Time: Jan 02 16:21:10 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

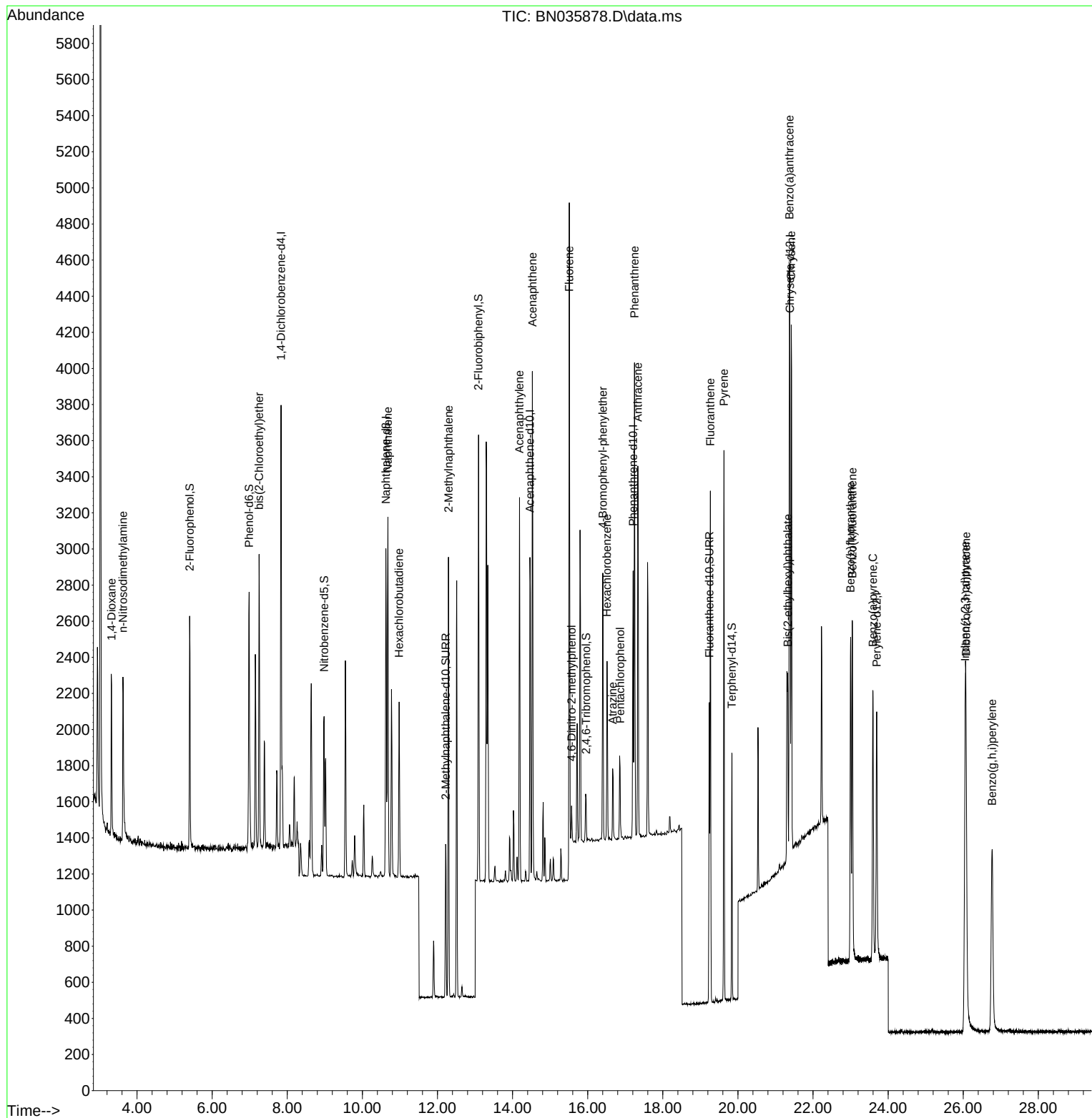
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.835	152	1111	0.400	ng	0.00
7) Naphthalene-d8	10.625	136	2204	0.400	ng	0.00
13) Acenaphthene-d10	14.462	164	1019	0.400	ng	0.00
19) Phenanthrene-d10	17.210	188	1951	0.400	ng	0.00
29) Chrysene-d12	21.384	240	1648	0.400	ng	# 0.00
35) Perylene-d12	23.697	264	1887	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.401	112	933	0.342	ng	0.00
5) Phenol-d6	6.983	99	1123	0.332	ng	0.00
8) Nitrobenzene-d5	8.981	82	694	0.398	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	1148	0.389	ng	0.00
14) 2,4,6-Tribromophenol	15.956	330	171	0.350	ng	0.00
15) 2-Fluorobiphenyl	13.093	172	1929	0.431	ng	0.00
27) Fluoranthene-d10	19.238	212	1850	0.382	ng	0.00
31) Terphenyl-d14	19.837	244	1291	0.393	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.321	88	520	0.471	ng	97
3) n-Nitrosodimethylamine	3.625	42	806	0.419	ng	# 97
6) bis(2-Chloroethyl)ether	7.250	93	1074	0.416	ng	97
9) Naphthalene	10.679	128	2466	0.399	ng	99
10) Hexachlorobutadiene	10.978	225	778	0.387	ng	# 98
12) 2-Methylnaphthalene	12.293	142	1561	0.408	ng	98
16) Acenaphthylene	14.184	152	2167	0.452	ng	100
17) Acenaphthene	14.526	154	1341	0.426	ng	98
18) Fluorene	15.509	166	1412	0.408	ng	96
20) 4,6-Dinitro-2-methylph...	15.571	198	139	0.410	ng	97
21) 4-Bromophenyl-phenylether	16.403	248	532	0.398	ng	98
22) Hexachlorobenzene	16.515	284	743	0.407	ng	99
23) Atrazine	16.664	200	346	0.386	ng	97
24) Pentachlorophenol	16.862	266	253	0.392	ng	95
25) Phenanthrene	17.247	178	2381	0.418	ng	99
26) Anthracene	17.334	178	2196	0.424	ng	98
28) Fluoranthene	19.266	202	2530	0.381	ng	99
30) Pyrene	19.628	202	2613	0.391	ng	99
32) Benzo(a)anthracene	21.375	228	2353	0.405	ng	100
33) Chrysene	21.419	228	2440	0.402	ng	97
34) Bis(2-ethylhexyl)phtha...	21.330	149	930	0.393	ng	100
36) Indeno(1,2,3-cd)pyrene	26.050	276	2972	0.399	ng	98
37) Benzo(b)fluoranthene	23.001	252	2413	0.372	ng	# 94
38) Benzo(k)fluoranthene	23.048	252	2442	0.381	ng	96
39) Benzo(a)pyrene	23.594	252	2250	0.401	ng	97
40) Dibenzo(a,h)anthracene	26.074	278	2353	0.397	ng	98
41) Benzo(g,h,i)perylene	26.767	276	2378	0.359	ng	98

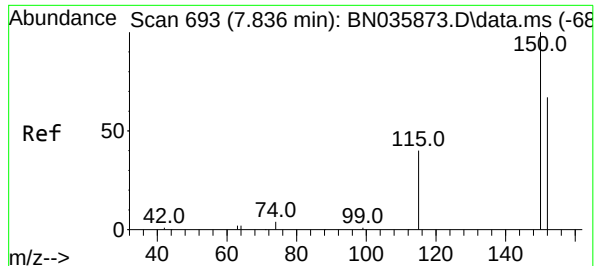
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Data File : BN035878.D
Acq On : 02 Jan 2025 15:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN010225

Quant Time: Jan 02 16:21:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

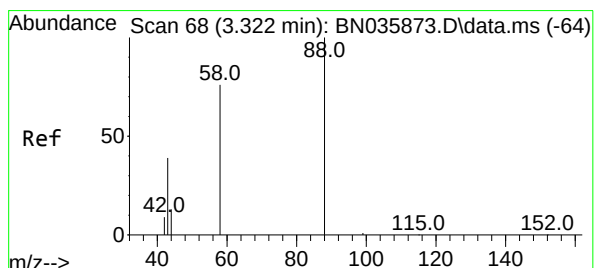
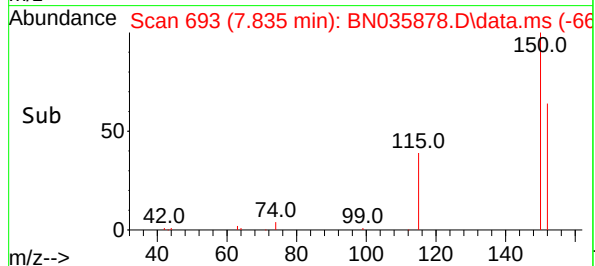
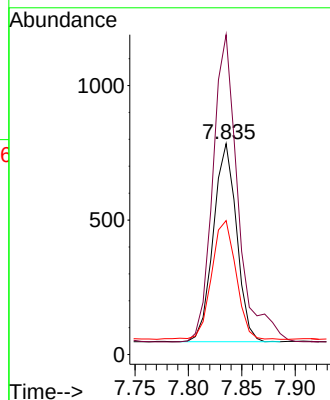
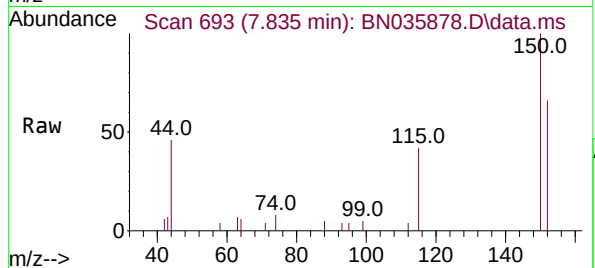




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.835 min Scan# 693
Delta R.T. -0.001 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

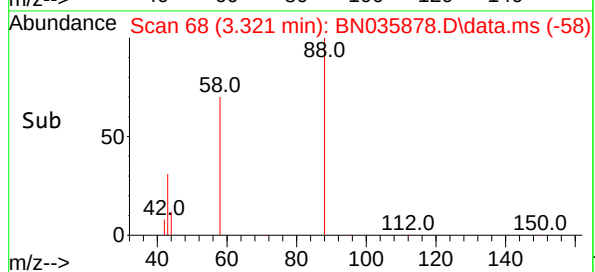
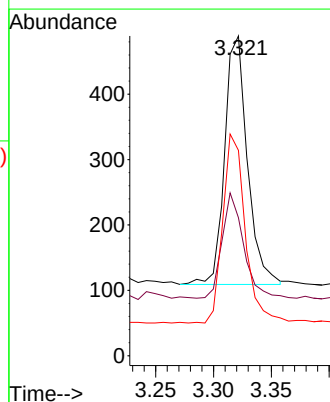
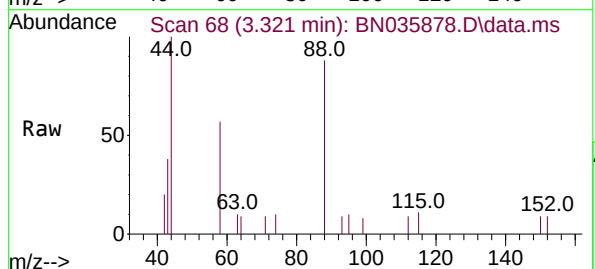
Instrument :
BNA_N
ClientSampleId :
ICVBN010225

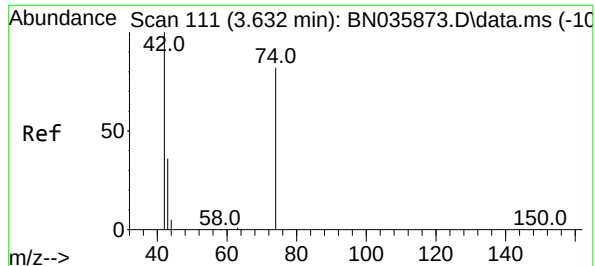
Tgt Ion: 152 Resp: 1111
Ion Ratio Lower Upper
152 100
150 151.7 117.8 176.6
115 63.5 51.0 76.4



#2
1,4-Dioxane
Concen: 0.471 ng
RT: 3.321 min Scan# 68
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

Tgt Ion: 88 Resp: 520
Ion Ratio Lower Upper
88 100
43 40.0 32.7 49.1
58 75.0 63.0 94.4

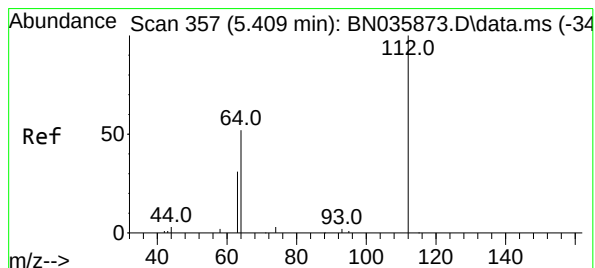
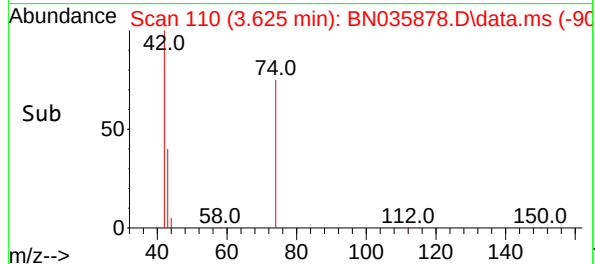
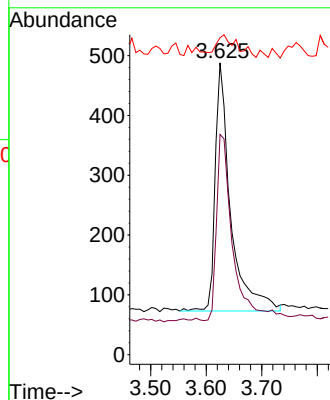
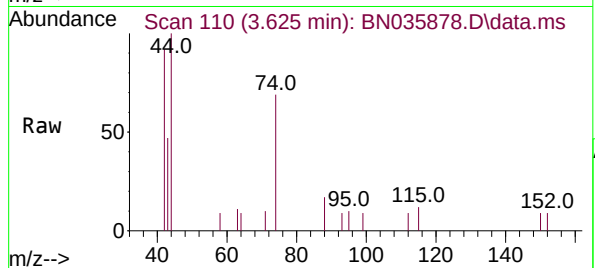




#3
n-Nitrosodimethylamine
Concen: 0.419 ng
RT: 3.625 min Scan# 111
Delta R.T. -0.007 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

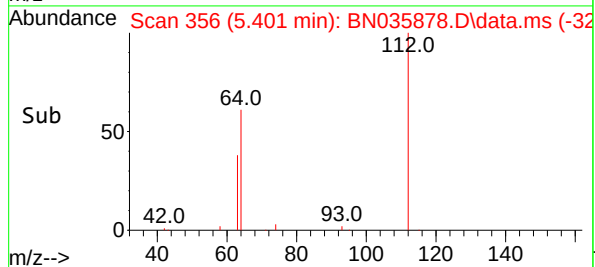
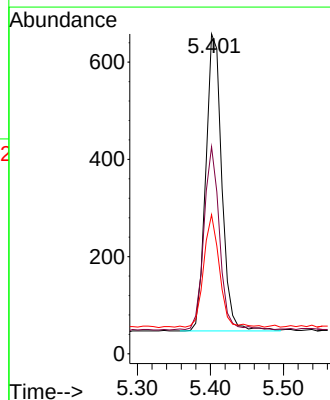
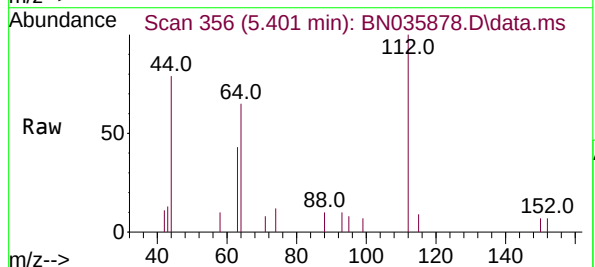
Instrument :
BNA_N
ClientSampleId :
ICVBN010225

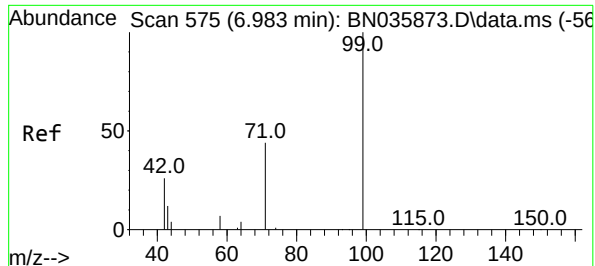
Tgt Ion: 42 Resp: 806
Ion Ratio Lower Upper
42 100
74 79.4 62.2 93.2
44 12.0 7.1 10.7#



#4
2-Fluorophenol
Concen: 0.342 ng
RT: 5.401 min Scan# 356
Delta R.T. -0.007 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

Tgt Ion: 112 Resp: 933
Ion Ratio Lower Upper
112 100
64 60.5 48.2 72.2
63 36.9 30.0 45.0

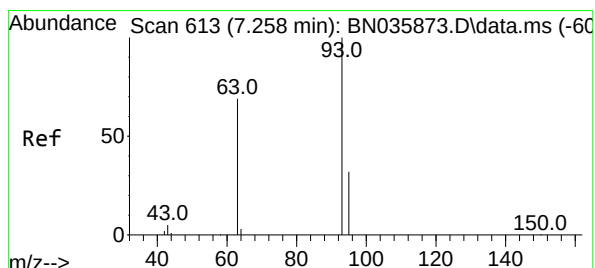
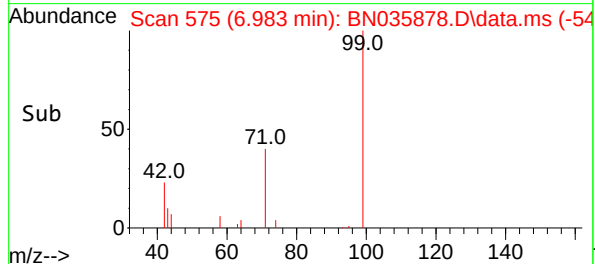
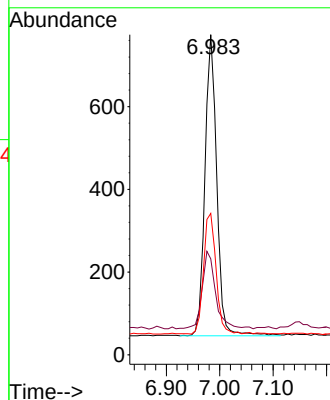
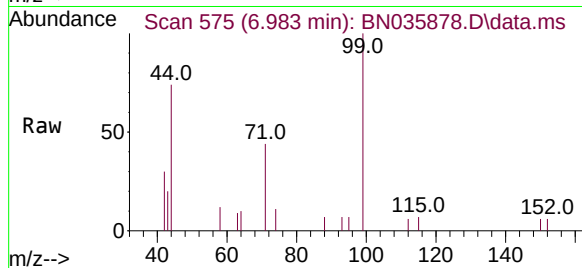




#5
Phenol-d6
Concen: 0.332 ng
RT: 6.983 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

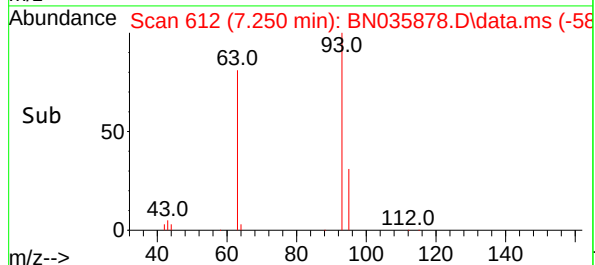
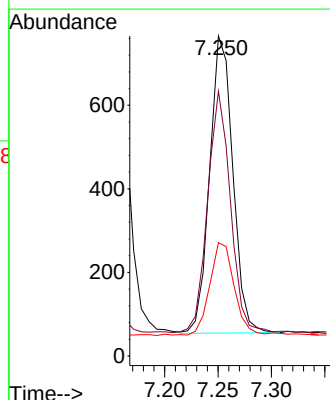
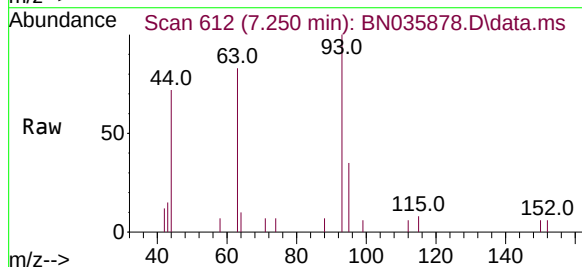
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ClientSampleId :
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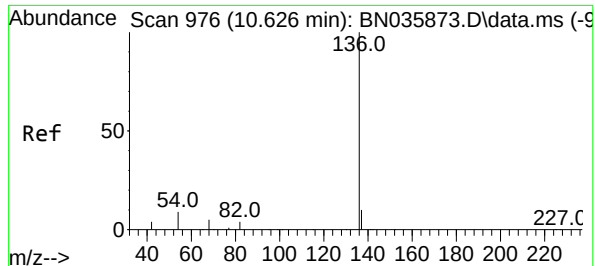
Tgt Ion: 99 Resp: 1123
Ion Ratio Lower Upper
99 100
42 29.0 23.5 35.3
71 42.0 35.5 53.3



#6
bis(2-Chloroethyl)ether
Concen: 0.416 ng
RT: 7.250 min Scan# 612
Delta R.T. -0.007 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

Tgt Ion: 93 Resp: 1074
Ion Ratio Lower Upper
93 100
63 80.4 62.0 93.0
95 33.2 25.5 38.3

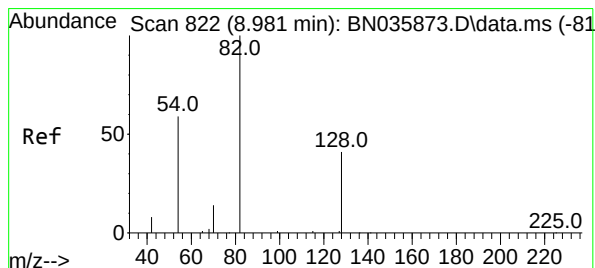
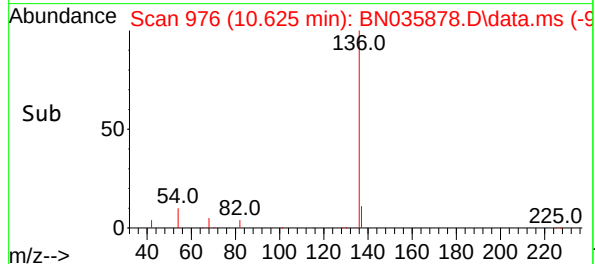
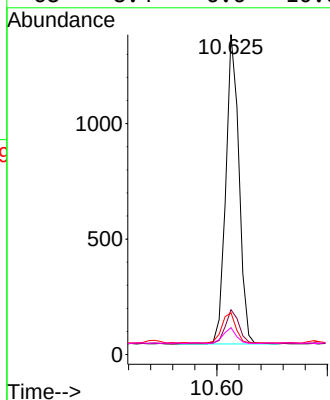
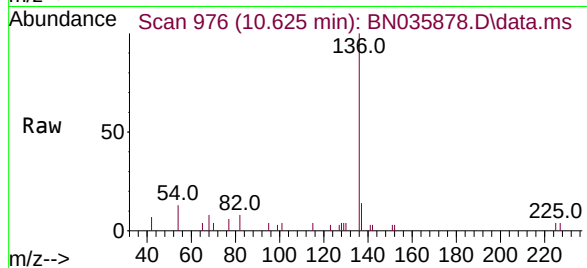




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.625 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

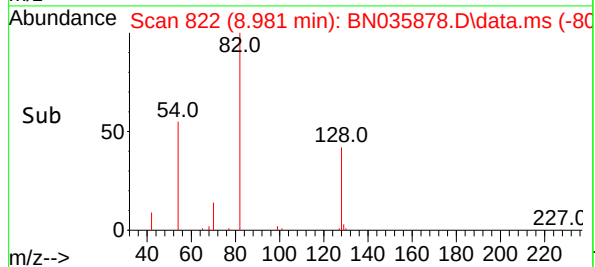
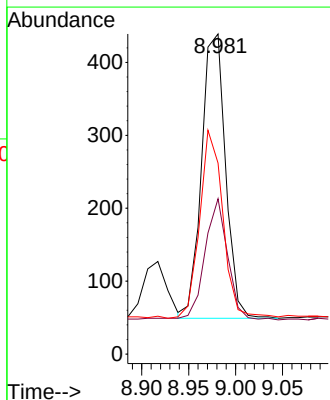
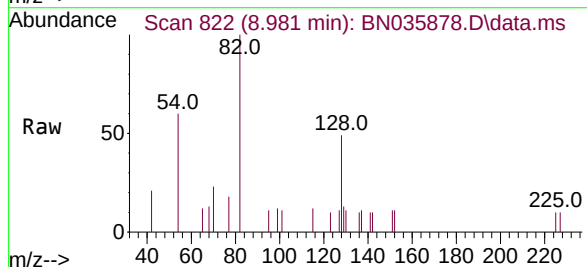
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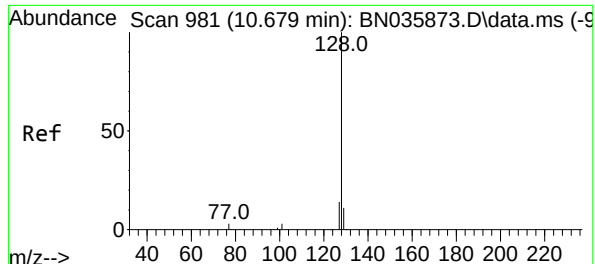
Tgt Ion:	136	Resp:	2204
Ion	Ratio	Lower	Upper
136	100		
137	14.0	10.6	15.8
54	13.1	9.8	14.6
68	8.4	6.6	10.0



#8
Nitrobenzene-d5
Concen: 0.398 ng
RT: 8.981 min Scan# 822
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

Tgt Ion:	82	Resp:	694
Ion	Ratio	Lower	Upper
82	100		
128	48.5	36.9	55.3
54	59.7	50.4	75.6

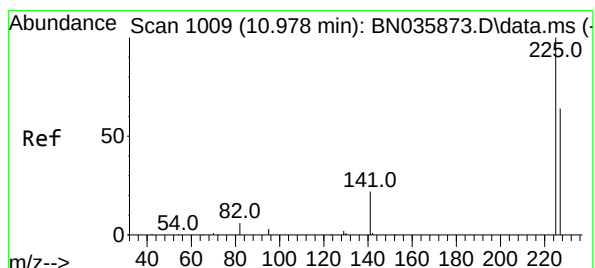
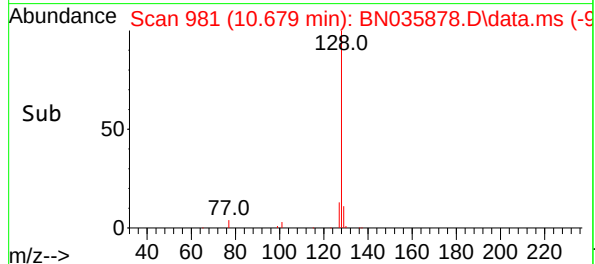
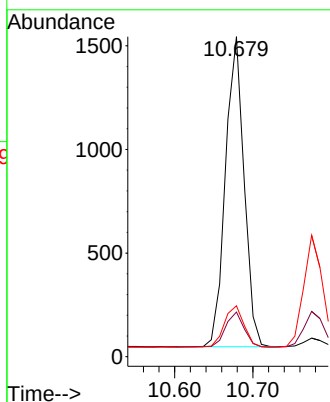
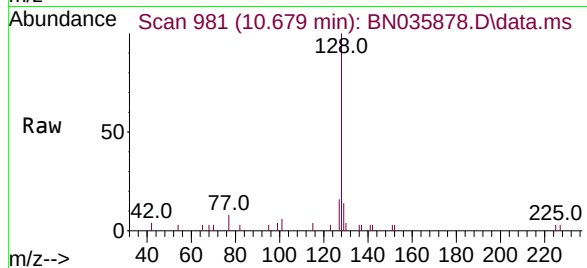




#9
Naphthalene
Concen: 0.399 ng
RT: 10.679 min Scan# 981
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

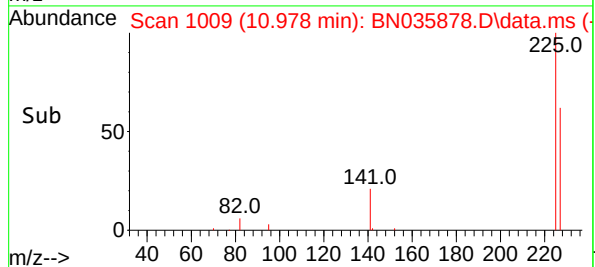
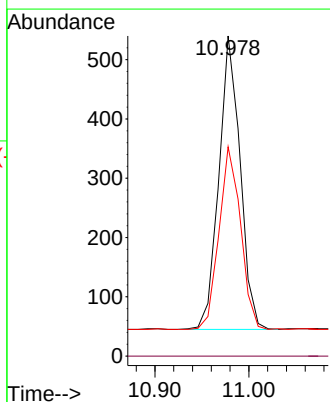
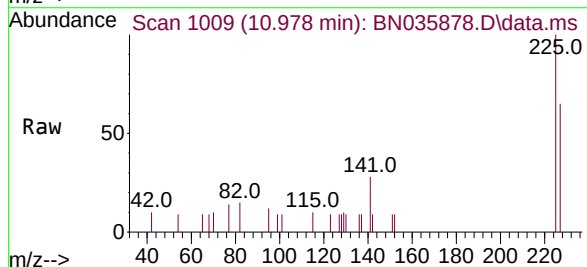
Instrument :
BNA_N
ClientSampleId :
ICVBN010225

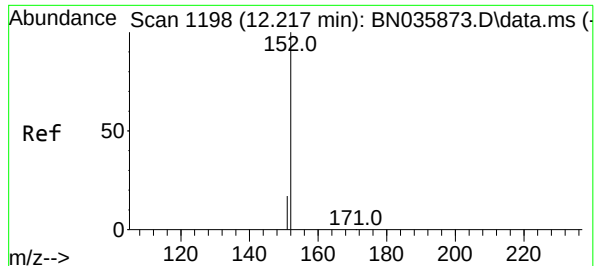
Tgt Ion:	128	Resp:	2466
Ion	Ratio	Lower	Upper
128	100		
129	14.0	10.6	16.0
127	15.9	12.8	19.2



#10
Hexachlorobutadiene
Concen: 0.387 ng
RT: 10.978 min Scan# 1009
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

Tgt Ion:	225	Resp:	778
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.1	51.5	77.3

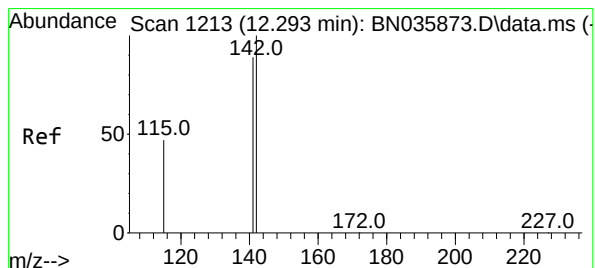
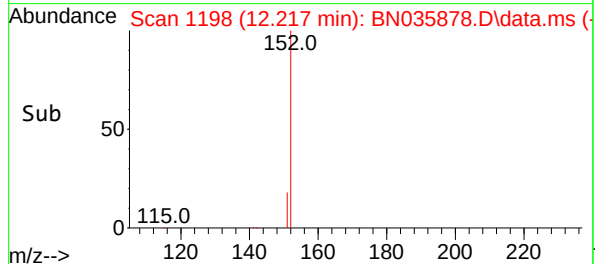
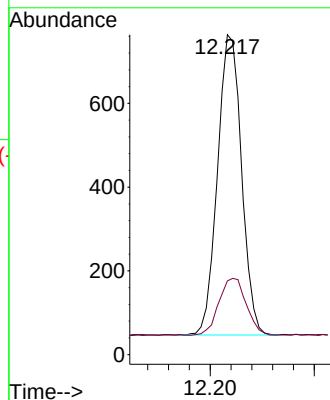
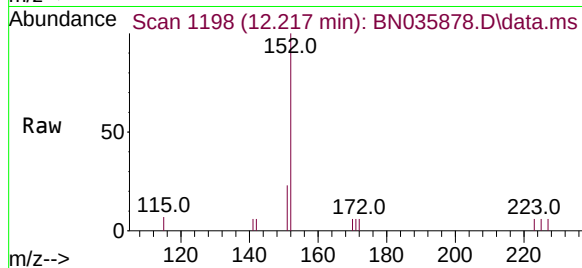




#11
2-Methylnaphthalene-d10
Concen: 0.389 ng
RT: 12.217 min Scan# 1198
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

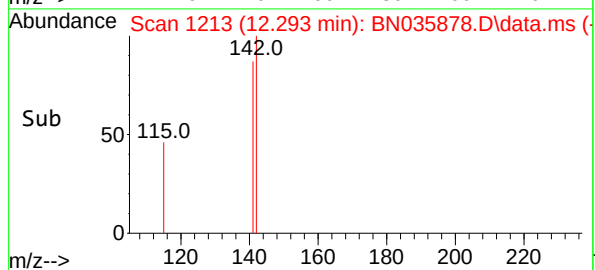
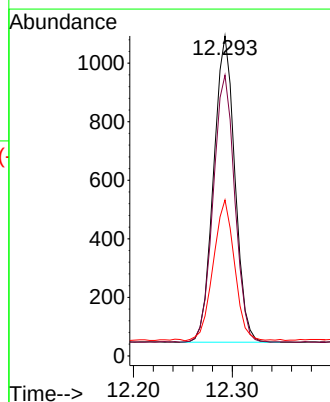
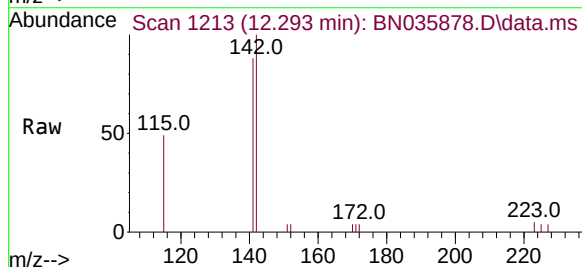
Instrument :
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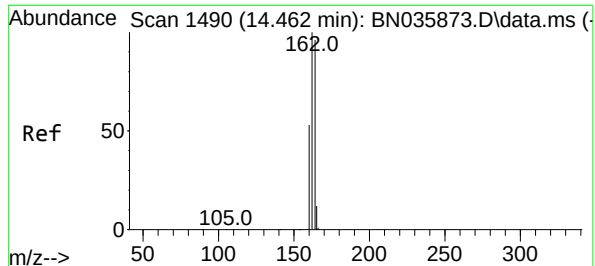
Tgt Ion:152 Resp: 1148
Ion Ratio Lower Upper
152 100
151 21.7 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.408 ng
RT: 12.293 min Scan# 1213
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

Tgt Ion:142 Resp: 1561
Ion Ratio Lower Upper
142 100
141 87.7 71.9 107.9
115 48.8 39.6 59.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.462 min Scan# 1490

Delta R.T. -0.000 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN010225

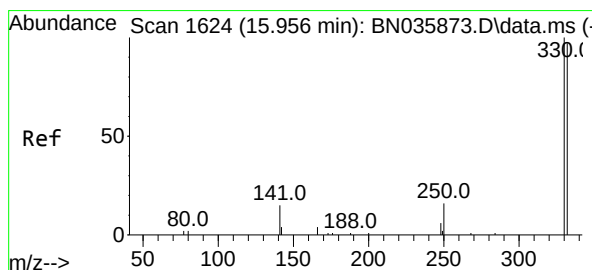
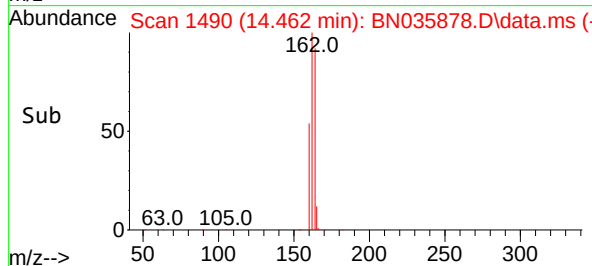
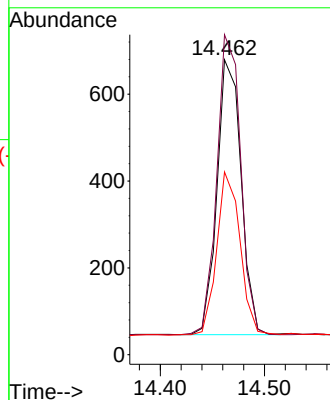
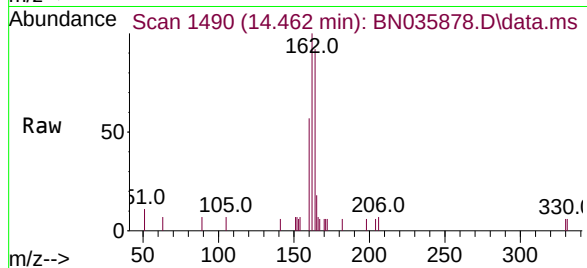
Tgt Ion:164 Resp: 1019

Ion Ratio Lower Upper

164 100

162 108.5 83.1 124.7

160 62.0 46.0 69.0



#14

2,4,6-Tribromophenol

Concen: 0.350 ng

RT: 15.956 min Scan# 1624

Delta R.T. -0.000 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

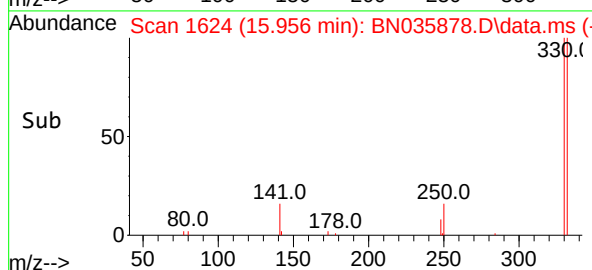
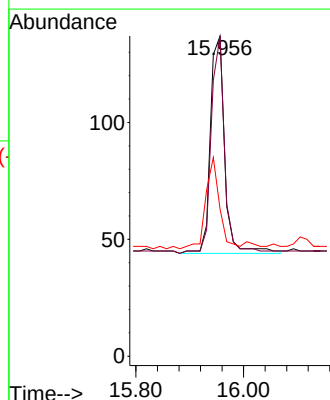
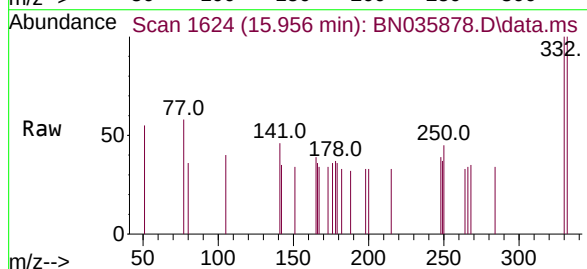
Tgt Ion:330 Resp: 171

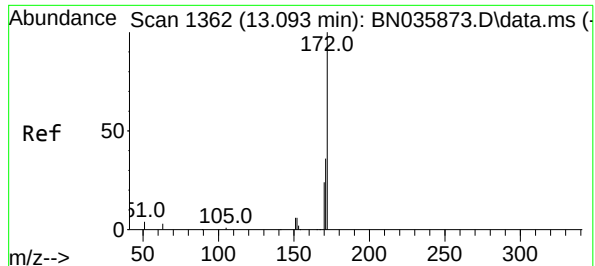
Ion Ratio Lower Upper

330 100

332 93.0 77.2 115.8

141 40.4 31.6 47.4





#15

2-Fluorobiphenyl

Concen: 0.431 ng

RT: 13.093 min Scan# 1362

Delta R.T. -0.000 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN010225

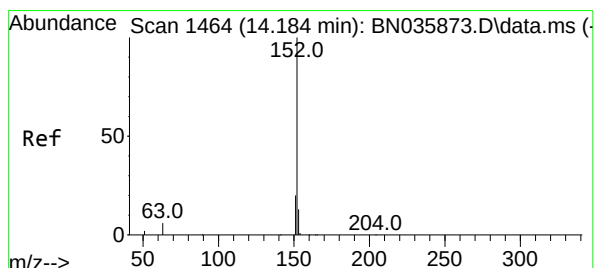
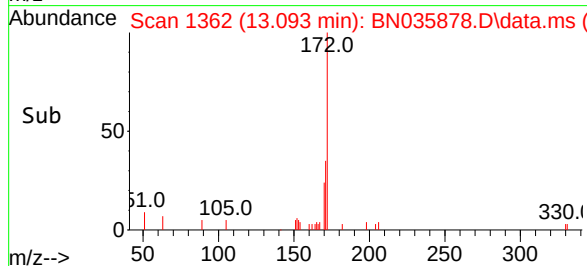
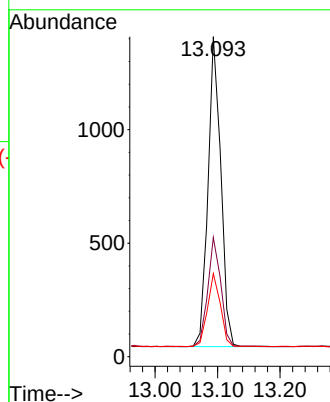
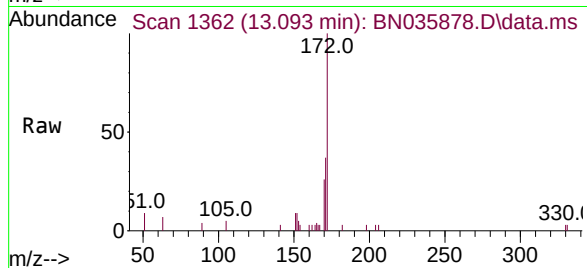
Tgt Ion:172 Resp: 1929

Ion Ratio Lower Upper

172 100

171 37.3 30.5 45.7

170 26.0 20.8 31.2



#16

Acenaphthylene

Concen: 0.452 ng

RT: 14.184 min Scan# 1464

Delta R.T. -0.000 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

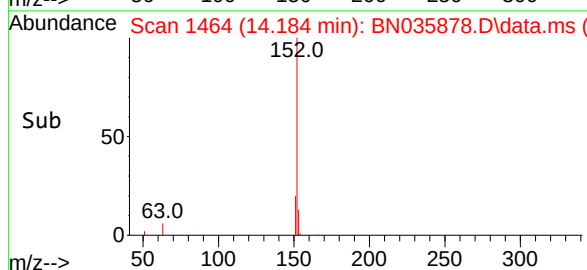
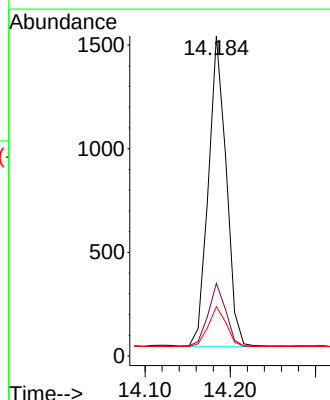
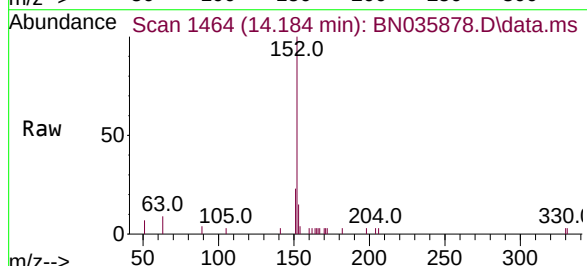
Tgt Ion:152 Resp: 2167

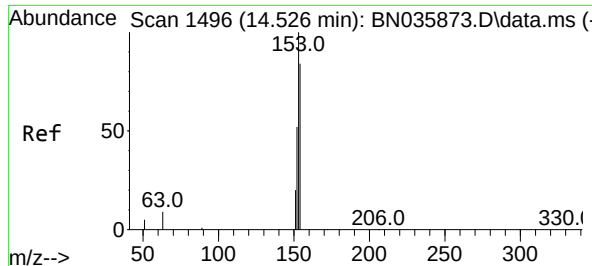
Ion Ratio Lower Upper

152 100

151 20.2 16.3 24.5

153 13.0 10.6 15.8

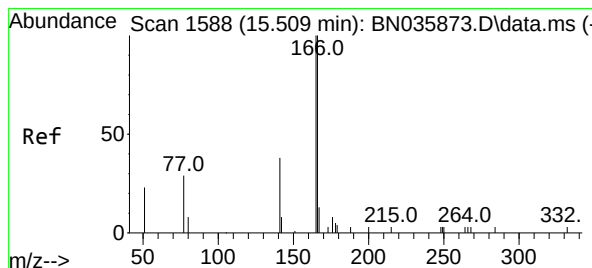
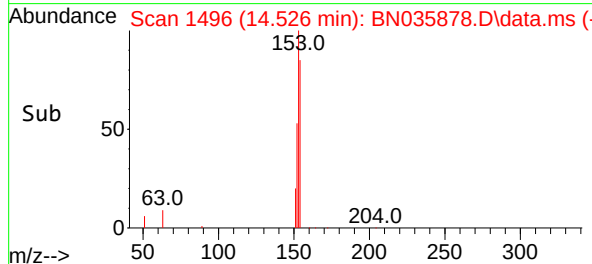
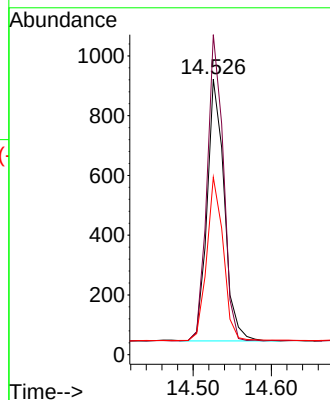
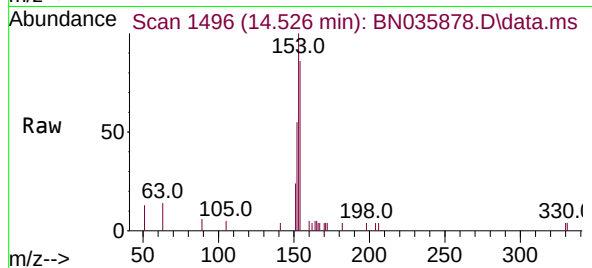




#17
Acenaphthene
Concen: 0.426 ng
RT: 14.526 min Scan# 1496
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

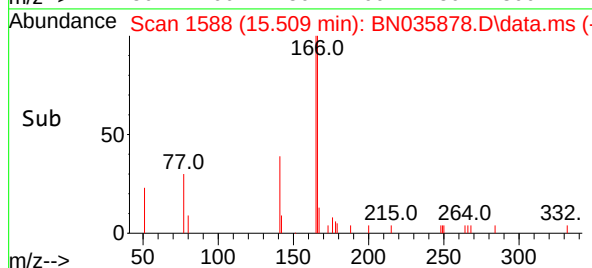
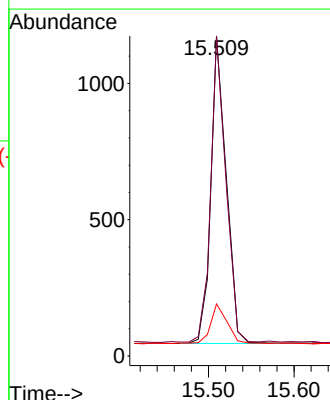
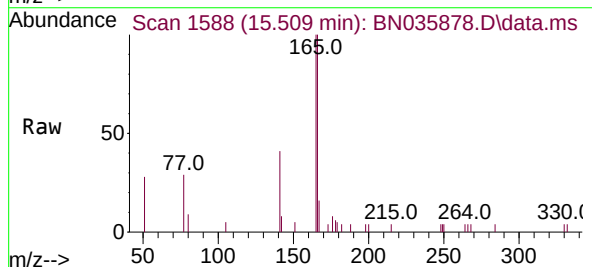
Instrument :
BNA_N
ClientSampleId :
ICVBN010225

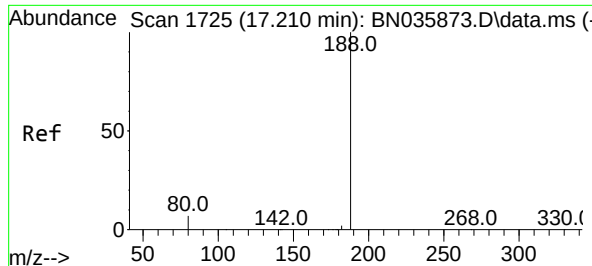
Tgt Ion:154 Resp: 1341
Ion Ratio Lower Upper
154 100
153 110.5 90.5 135.7
152 60.5 48.6 73.0



#18
Fluorene
Concen: 0.408 ng
RT: 15.509 min Scan# 1588
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

Tgt Ion:166 Resp: 1412
Ion Ratio Lower Upper
166 100
165 96.0 80.6 120.8
167 14.0 11.4 17.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.210 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN010225

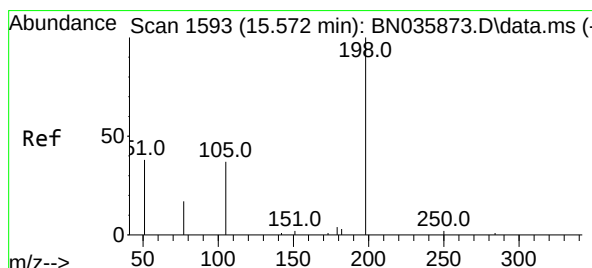
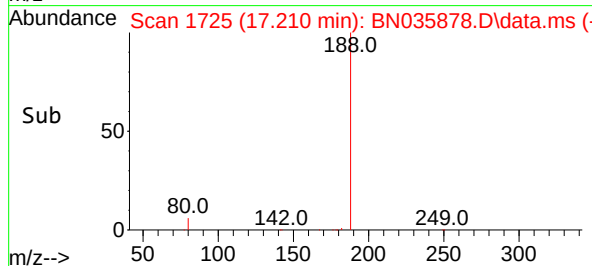
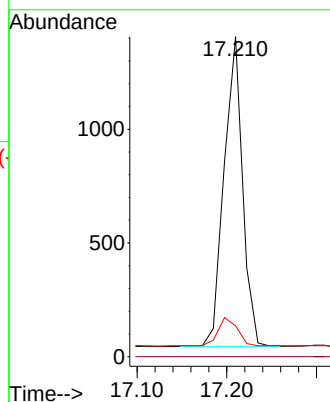
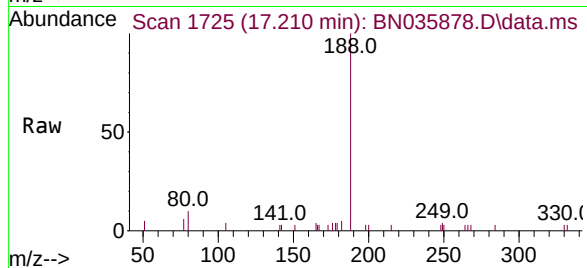
Tgt Ion:188 Resp: 1951

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.7 7.3 10.9



#20

4,6-Dinitro-2-methylphenol

Concen: 0.410 ng

RT: 15.571 min Scan# 1593

Delta R.T. -0.000 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

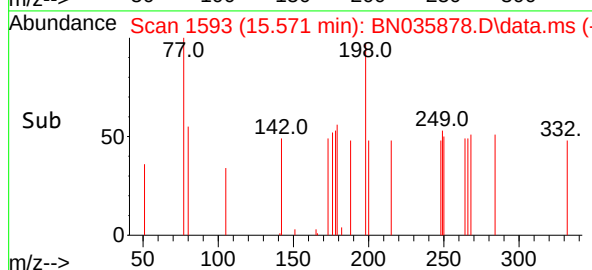
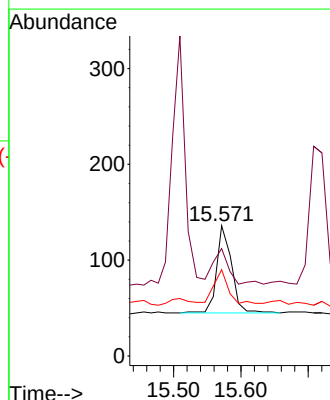
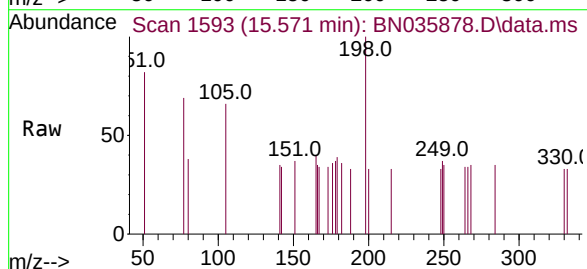
Tgt Ion:198 Resp: 139

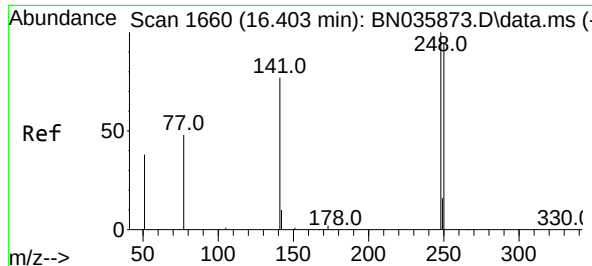
Ion Ratio Lower Upper

198 100

51 82.4 64.3 96.5

105 66.2 50.0 75.0

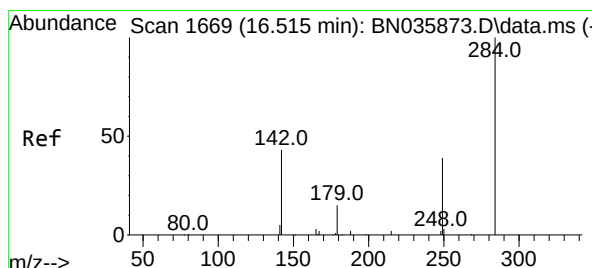
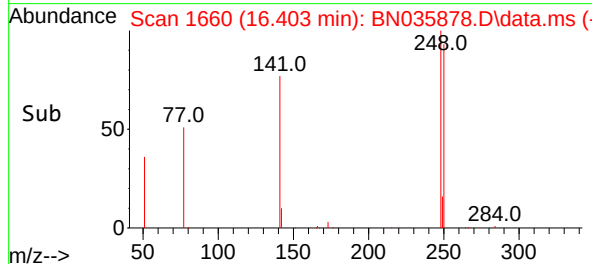
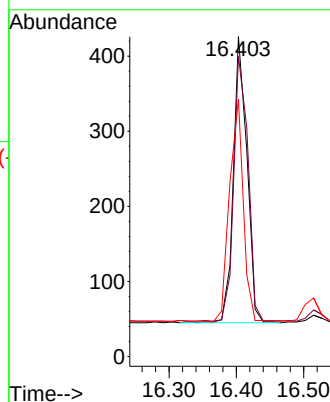
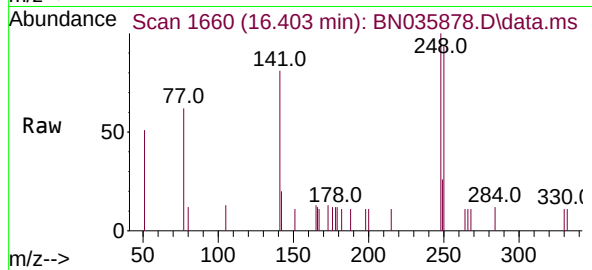




#21
4-Bromophenyl-phenylether
Concen: 0.398 ng
RT: 16.403 min Scan# 1660
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

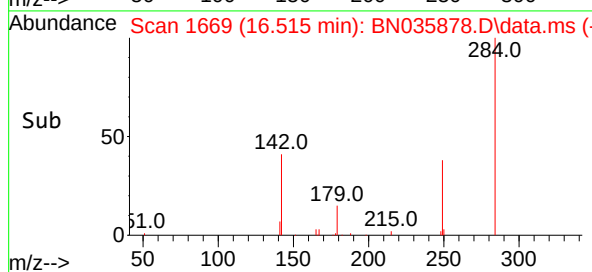
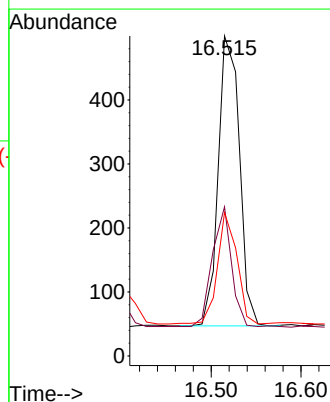
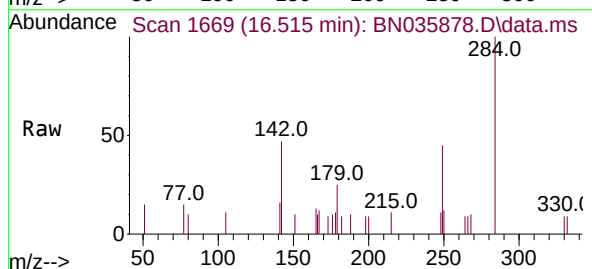
Instrument :
BNA_N
ClientSampleId :
ICVBN010225

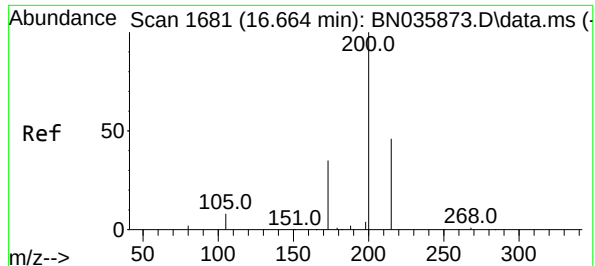
Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.9	76.8	115.2
141	80.5	63.6	95.4



#22
Hexachlorobenzene
Concen: 0.407 ng
RT: 16.515 min Scan# 1669
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.1	31.4	47.0
249	35.3	27.8	41.8

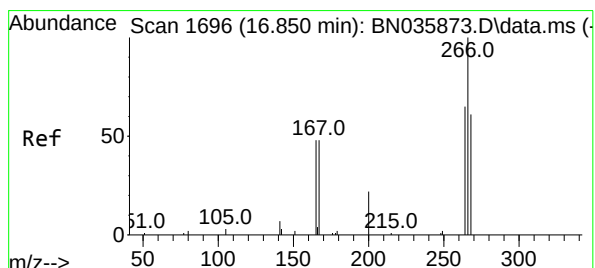
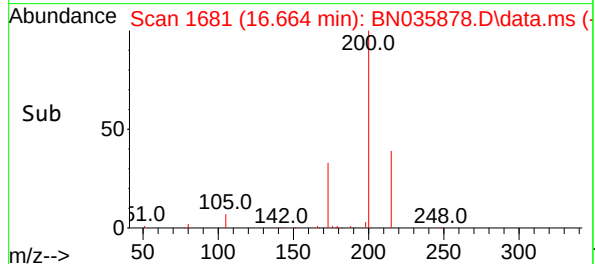
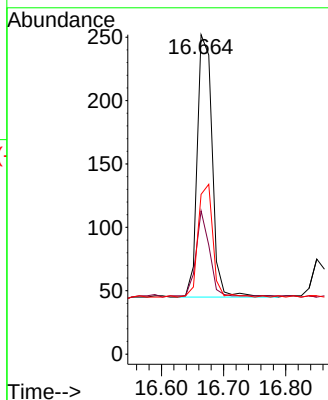
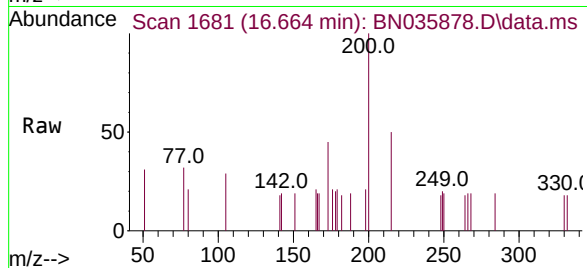




#23
Atrazine
Concen: 0.386 ng
RT: 16.664 min Scan# 1681
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

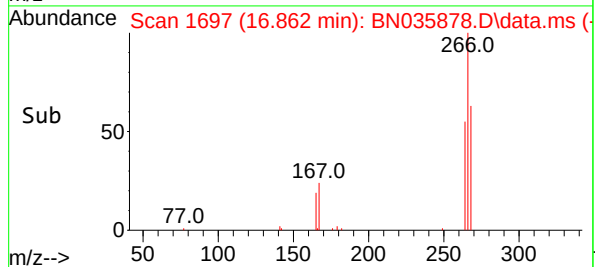
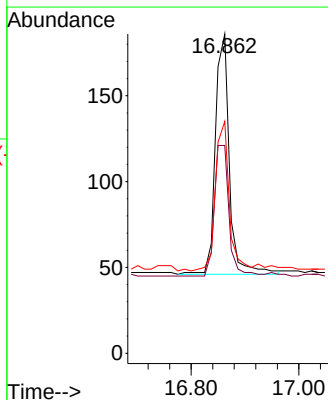
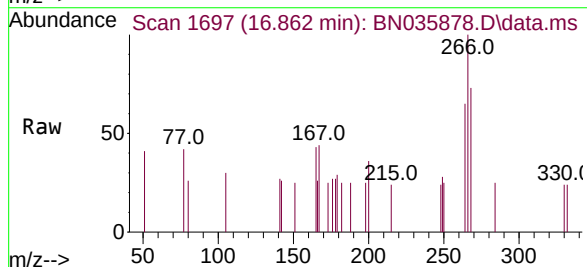
Instrument :
BNA_N
ClientSampleId :
ICVBN010225

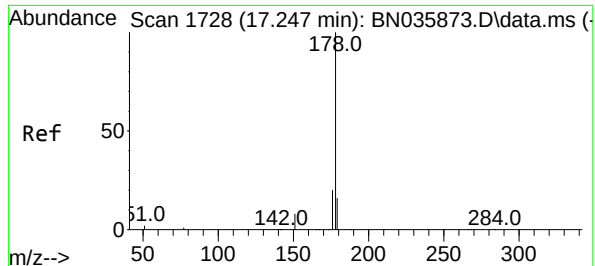
Tgt Ion	Ratio	Lower	Upper
200	100		
173	44.8	35.4	53.0
215	50.0	42.4	63.6



#24
Pentachlorophenol
Concen: 0.392 ng
RT: 16.862 min Scan# 1697
Delta R.T. 0.012 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

Tgt Ion	Ratio	Lower	Upper
266	100		
264	56.1	49.9	74.9
268	60.9	50.2	75.2

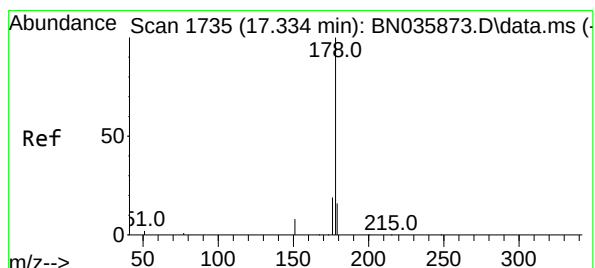
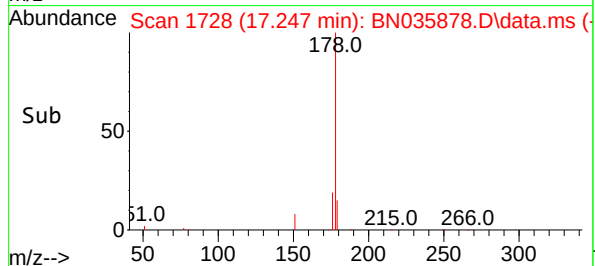
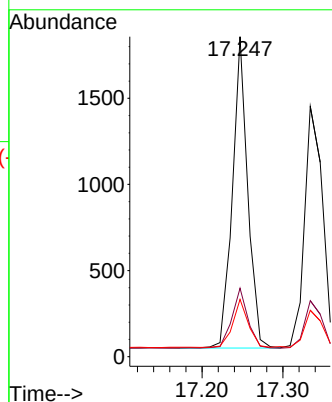
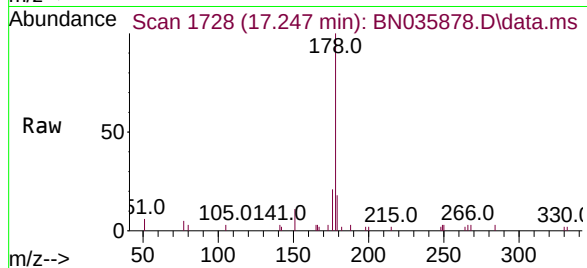




#25
Phenanthrene
Concen: 0.418 ng
RT: 17.247 min Scan# 1728
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

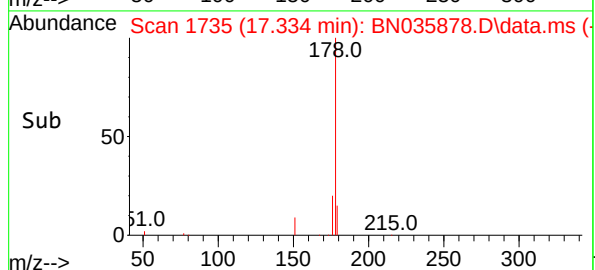
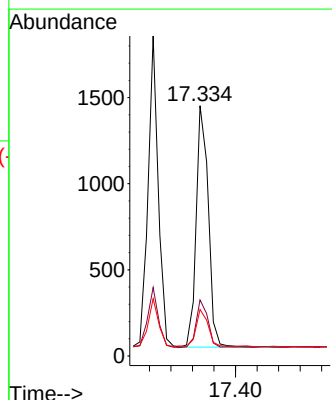
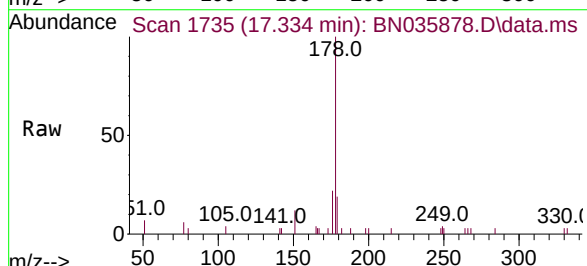
Instrument :
BNA_N
ClientSampleId :
ICVBN010225

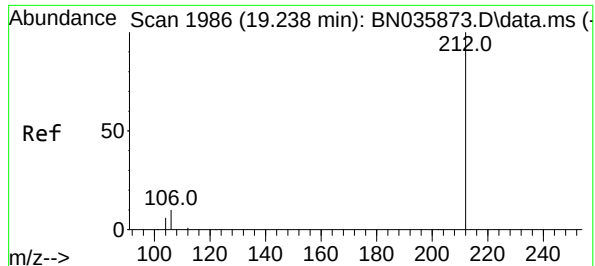
Tgt Ion:178 Resp: 2381
Ion Ratio Lower Upper
178 100
176 20.2 15.9 23.9
179 15.5 12.9 19.3



#26
Anthracene
Concen: 0.424 ng
RT: 17.334 min Scan# 1735
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

Tgt Ion:178 Resp: 2196
Ion Ratio Lower Upper
178 100
176 19.4 15.0 22.6
179 15.2 13.0 19.6





#27

Fluoranthene-d10

Concen: 0.382 ng

RT: 19.238 min Scan# 1986

Delta R.T. -0.000 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN010225

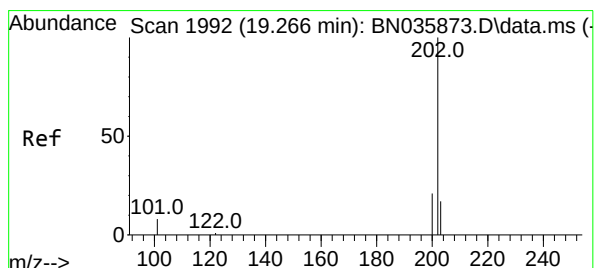
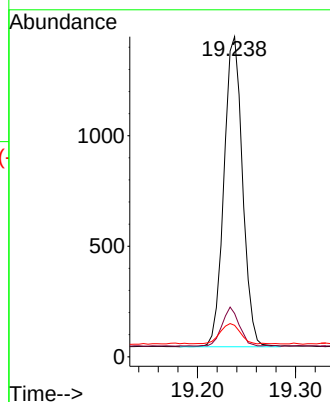
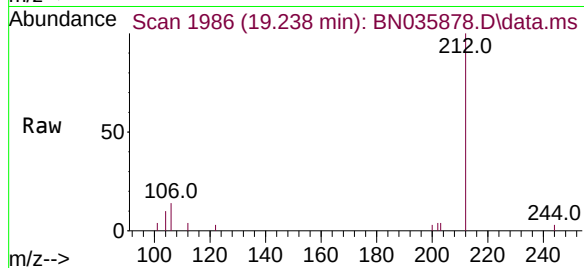
Tgt Ion:212 Resp: 1850

Ion Ratio Lower Upper

212 100

106 11.5 9.0 13.6

104 7.1 5.4 8.2



#28

Fluoranthene

Concen: 0.381 ng

RT: 19.266 min Scan# 1992

Delta R.T. -0.000 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

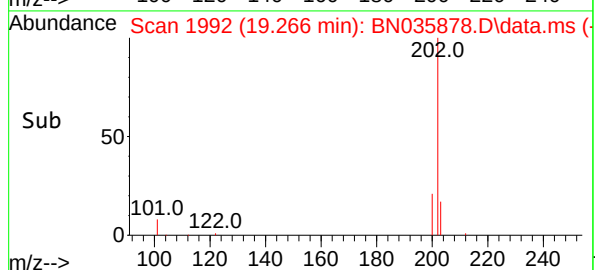
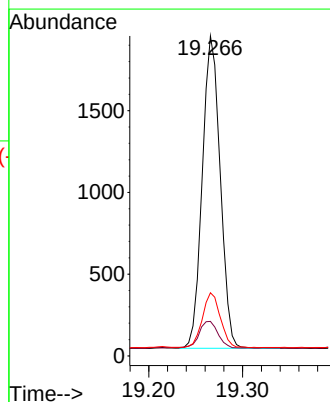
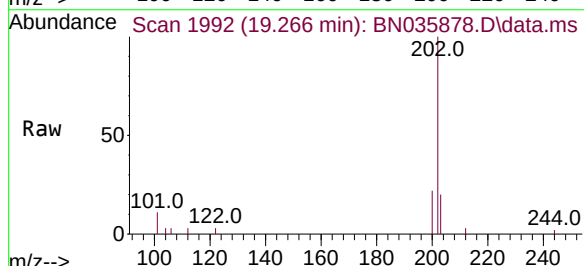
Tgt Ion:202 Resp: 2530

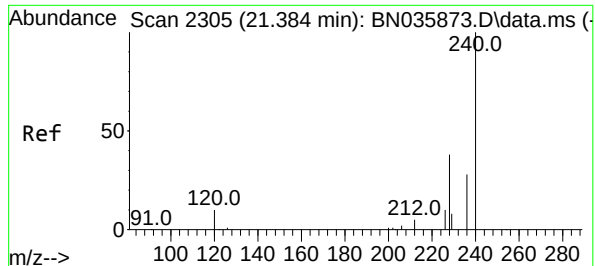
Ion Ratio Lower Upper

202 100

101 9.2 7.2 10.8

203 17.6 13.9 20.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.384 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN010225

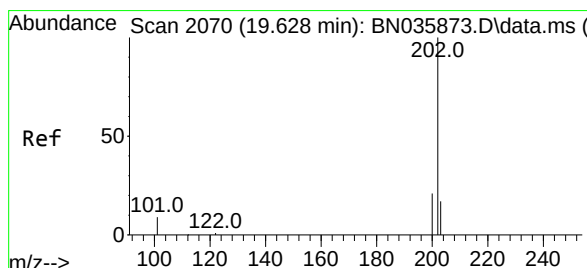
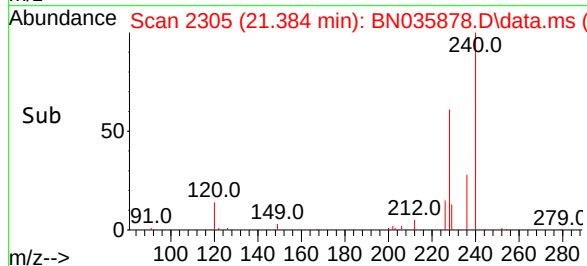
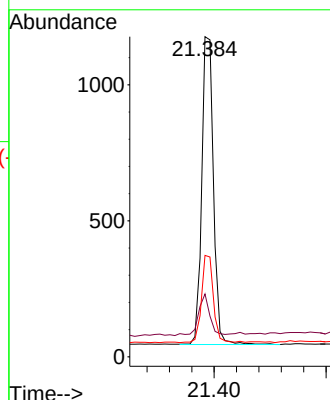
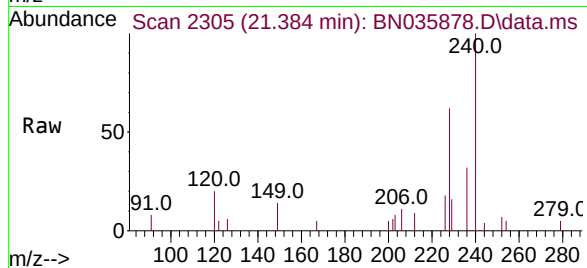
Tgt Ion:240 Resp: 1648

Ion Ratio Lower Upper

240 100

120 19.6 11.1 16.7#

236 31.7 24.6 36.8



#30

Pyrene

Concen: 0.391 ng

RT: 19.628 min Scan# 2070

Delta R.T. -0.000 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

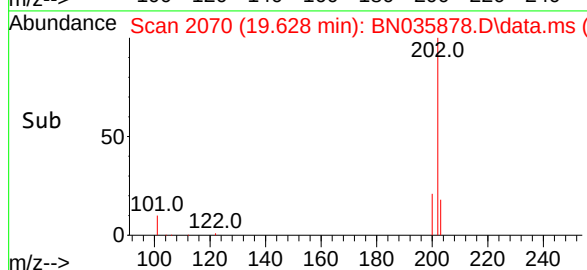
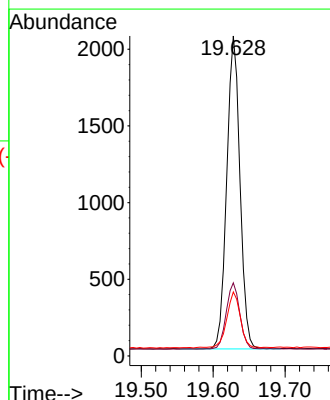
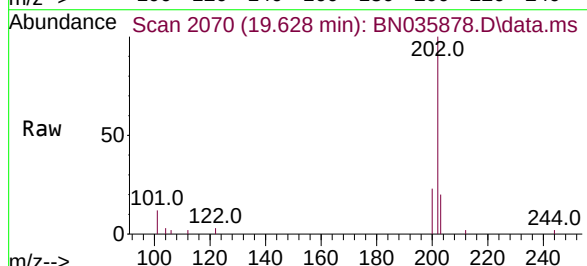
Tgt Ion:202 Resp: 2613

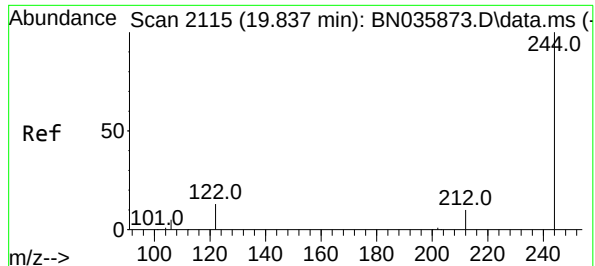
Ion Ratio Lower Upper

202 100

200 21.6 17.0 25.6

203 18.5 14.6 22.0





#31

Terphenyl-d14

Concen: 0.393 ng

RT: 19.837 min Scan# 2115

Delta R.T. -0.000 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN010225

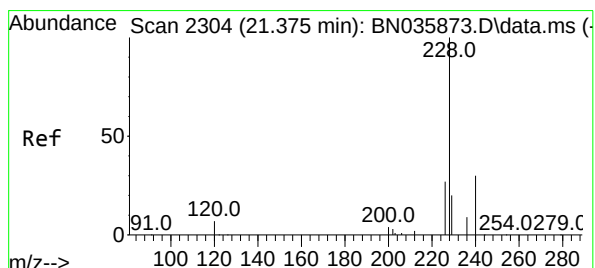
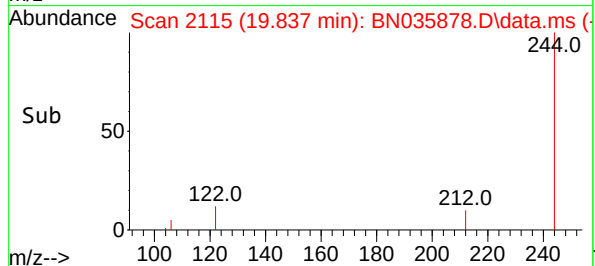
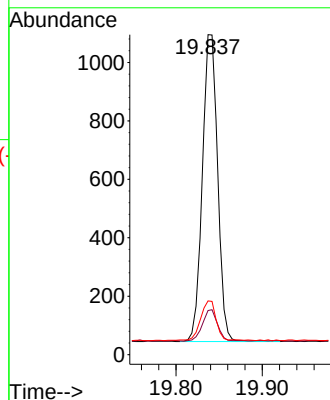
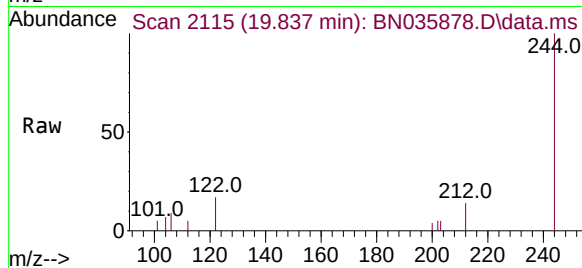
Tgt Ion:244 Resp: 1291

Ion Ratio Lower Upper

244 100

212 13.8 10.1 15.1

122 16.8 12.2 18.4



#32

Benzo(a)anthracene

Concen: 0.405 ng

RT: 21.375 min Scan# 2304

Delta R.T. -0.000 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

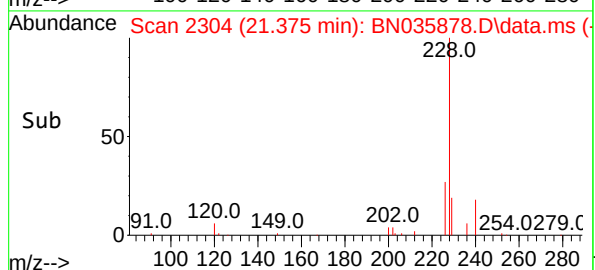
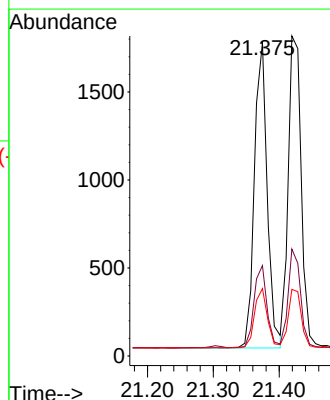
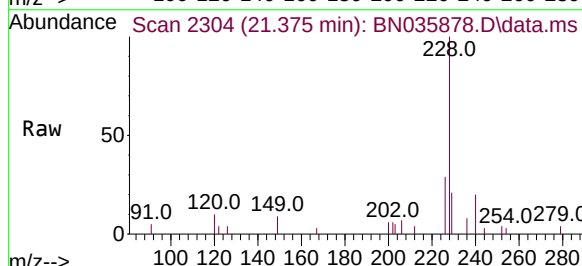
Tgt Ion:228 Resp: 2353

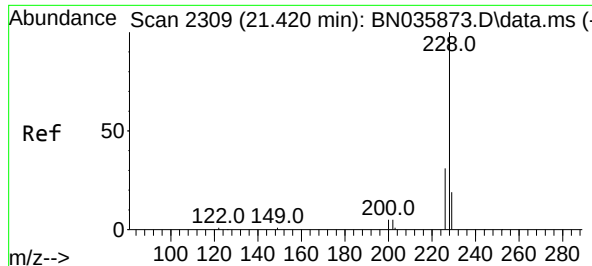
Ion Ratio Lower Upper

228 100

226 28.8 22.7 34.1

229 21.4 17.1 25.7





#33

Chrysene

Concen: 0.402 ng

RT: 21.419 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN010225

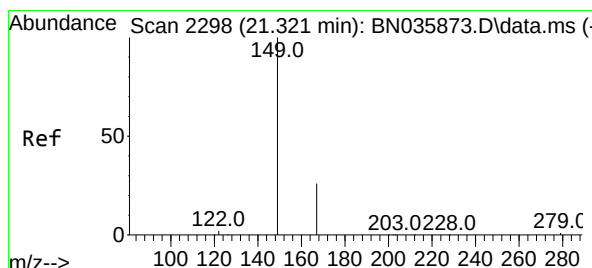
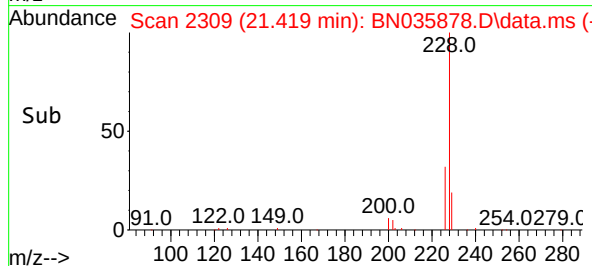
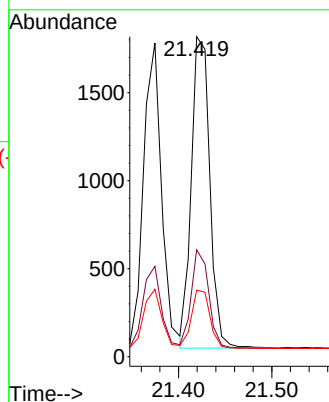
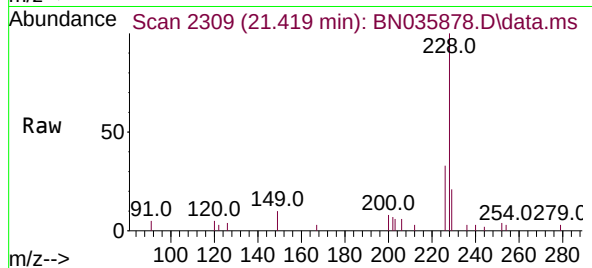
Tgt Ion:228 Resp: 2440

Ion Ratio Lower Upper

228 100

226 33.4 25.2 37.8

229 20.8 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.393 ng

RT: 21.330 min Scan# 2299

Delta R.T. 0.009 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

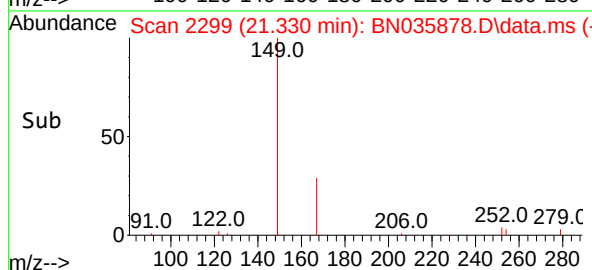
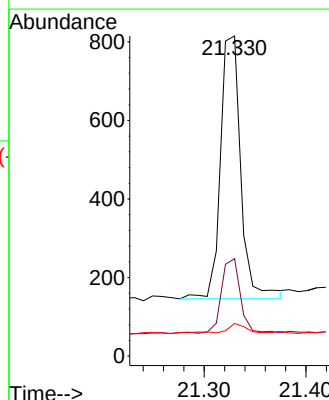
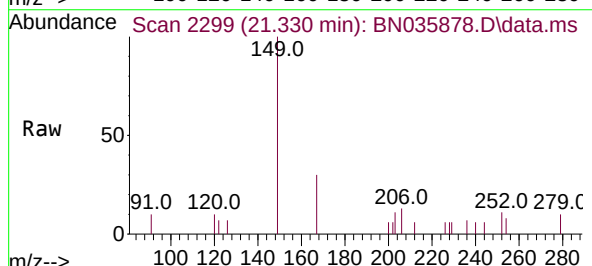
Tgt Ion:149 Resp: 930

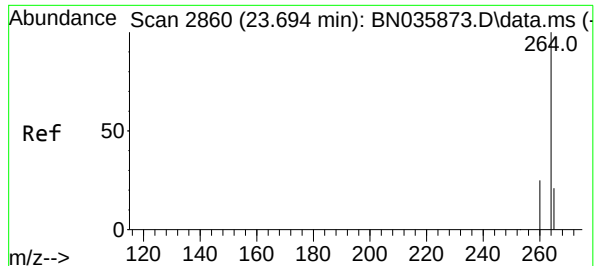
Ion Ratio Lower Upper

149 100

167 26.9 21.4 32.0

279 3.4 3.0 4.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.697 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN010225

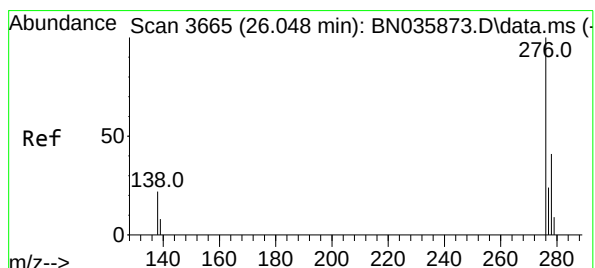
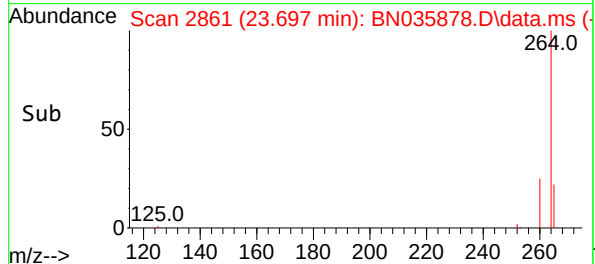
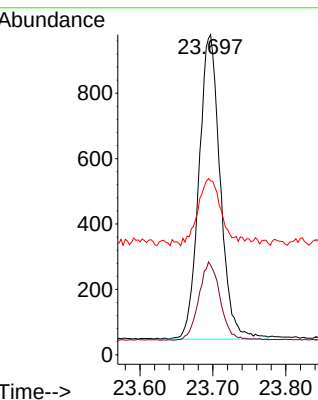
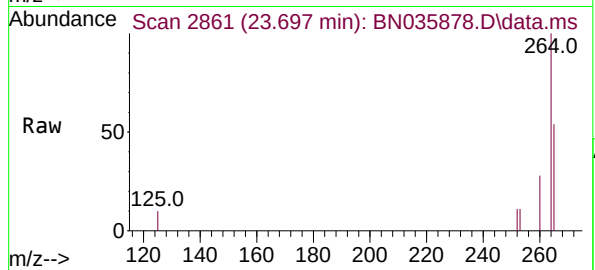
Tgt Ion:264 Resp: 1887

Ion Ratio Lower Upper

264 100

260 28.0 21.7 32.5

265 54.3 33.9 50.9#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.399 ng

RT: 26.050 min Scan# 3666

Delta R.T. 0.003 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

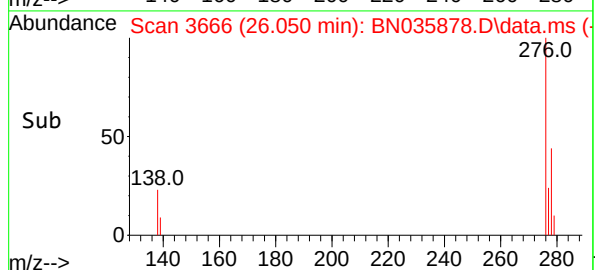
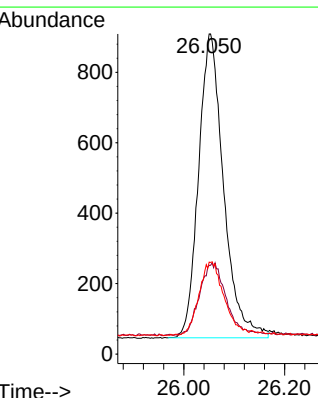
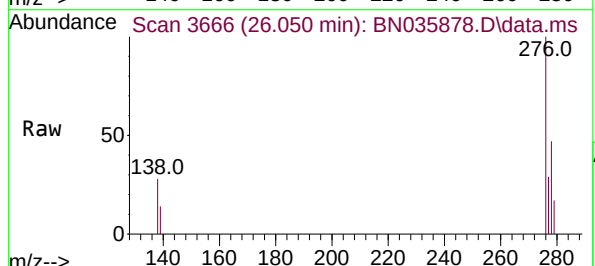
Tgt Ion:276 Resp: 2972

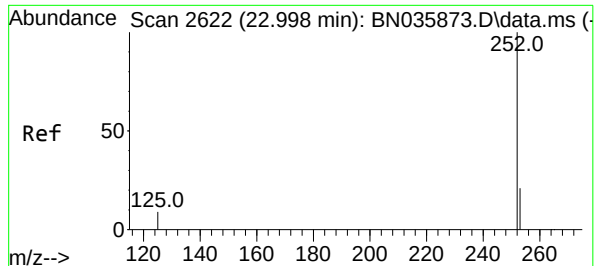
Ion Ratio Lower Upper

276 100

138 25.6 18.9 28.3

277 24.0 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.372 ng

RT: 23.001 min Scan# 2623

Delta R.T. 0.003 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN010225

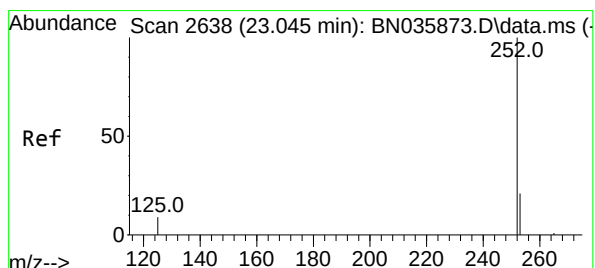
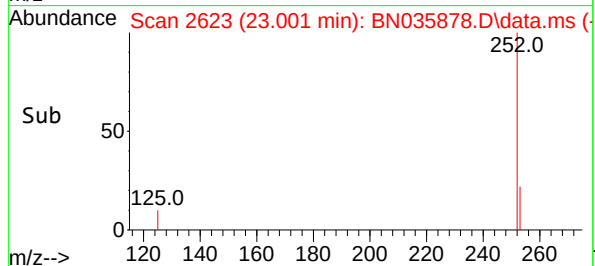
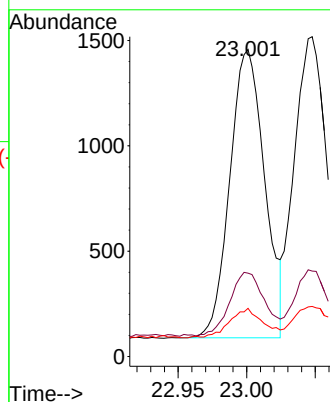
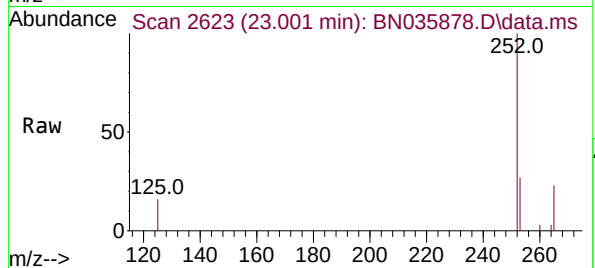
Tgt Ion:252 Resp: 2413

Ion Ratio Lower Upper

252 100

253 27.2 20.1 30.1

125 15.7 9.9 14.9#



#38

Benzo(k)fluoranthene

Concen: 0.381 ng

RT: 23.048 min Scan# 2639

Delta R.T. 0.003 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

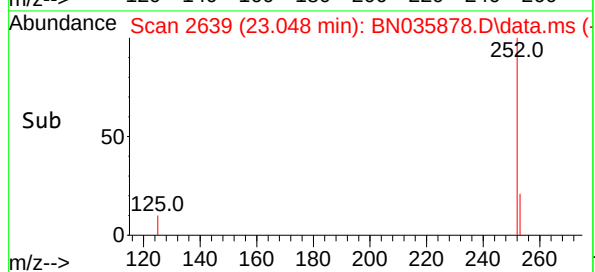
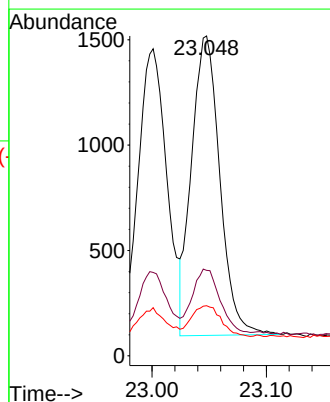
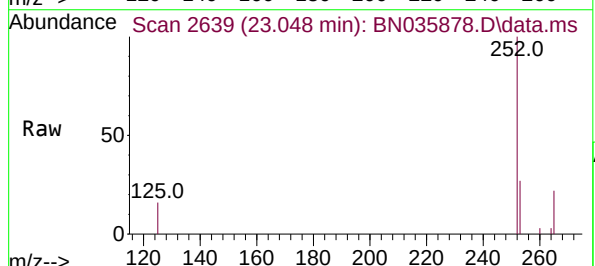
Tgt Ion:252 Resp: 2442

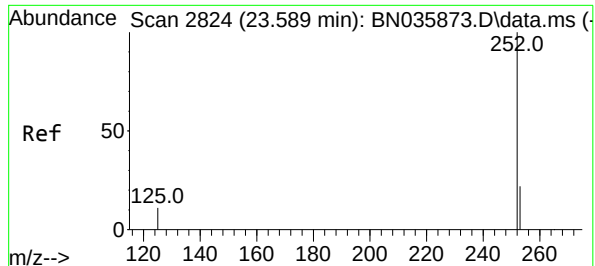
Ion Ratio Lower Upper

252 100

253 26.7 20.5 30.7

125 15.7 10.6 16.0





#39

Benzo(a)pyrene

Concen: 0.401 ng

RT: 23.594 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN010225

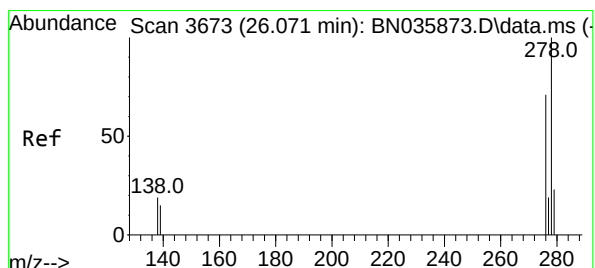
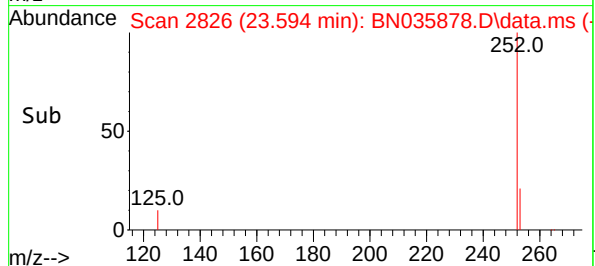
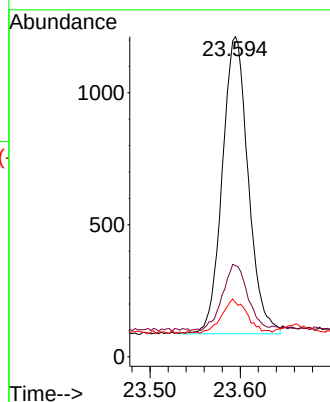
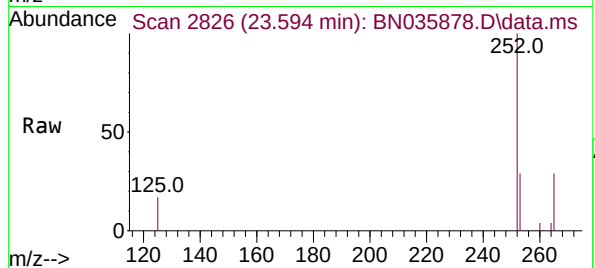
Tgt Ion:252 Resp: 2250

Ion Ratio Lower Upper

252 100

253 28.5 21.5 32.3

125 17.0 12.6 19.0



#40

Dibenzo(a,h)anthracene

Concen: 0.397 ng

RT: 26.074 min Scan# 3674

Delta R.T. 0.003 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

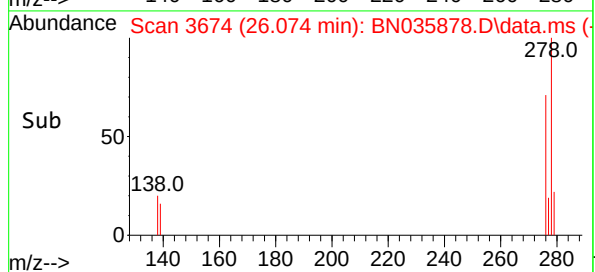
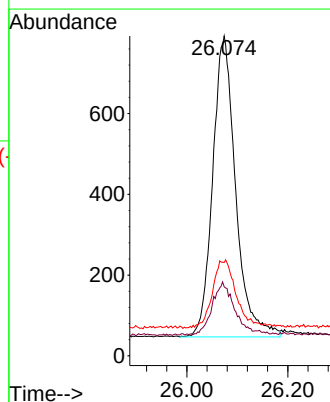
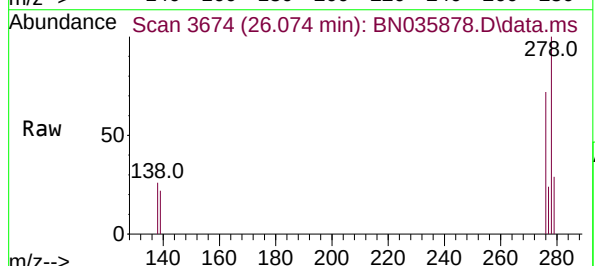
Tgt Ion:278 Resp: 2353

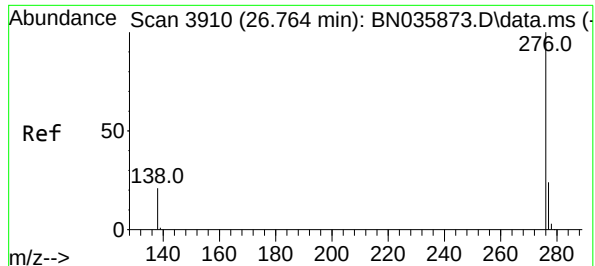
Ion Ratio Lower Upper

278 100

139 21.6 15.9 23.9

279 29.2 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 0.359 ng

RT: 26.767 min Scan# 3911

Delta R.T. 0.003 min

Lab File: BN035878.D

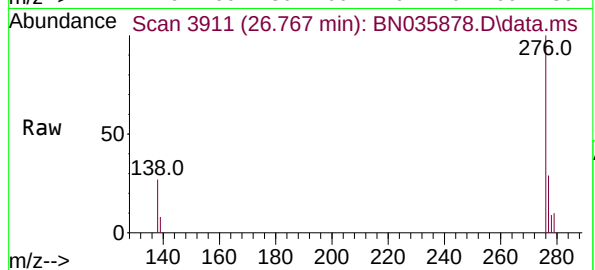
Acq: 02 Jan 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN010225



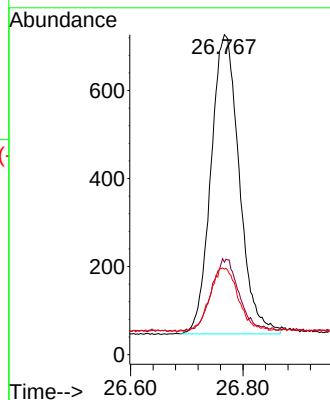
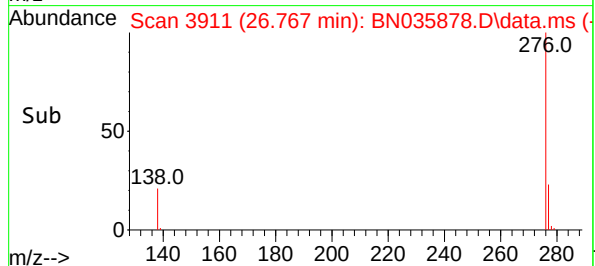
Tgt Ion:276 Resp: 2378

Ion Ratio Lower Upper

276 100

277 28.9 22.8 34.2

138 26.7 20.1 30.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
 Data File : BN035878.D
 Acq On : 02 Jan 2025 15:51
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN010225

Quant Time: Jan 02 16:21:10 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 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	88	0.00
2	1,4-Dioxane	0.397	0.468	-17.9	111	0.00
3	n-Nitrosodimethylamine	0.693	0.725	-4.6	94	0.00
4 S	2-Fluorophenol	0.981	0.840	14.4	78	0.00
5 S	Phenol-d6	1.219	1.011	17.1	75	0.00
6	bis(2-Chloroethyl)ether	0.929	0.967	-4.1	91	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	85	0.00
8 S	Nitrobenzene-d5	0.317	0.315	0.6	91	0.00
9	Naphthalene	1.123	1.119	0.4	88	0.00
10	Hexachlorobutadiene	0.365	0.353	3.3	85	0.00
11 SURR	2-Methylnaphthalene-d10	0.536	0.521	2.8	84	0.00
12	2-Methylnaphthalene	0.695	0.708	-1.9	88	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	75	0.00
14 S	2,4,6-Tribromophenol	0.192	0.168	12.5	67	0.00
15 S	2-Fluorobiphenyl	1.755	1.893	-7.9	83	0.00
16	Acenaphthylene	1.884	2.127	-12.9	88	0.00
17	Acenaphthene	1.235	1.316	-6.6	82	0.00
18	Fluorene	1.359	1.386	-2.0	80	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	70	0.00
20	4,6-Dinitro-2-methylphenol	0.069	0.071	-2.9	75	0.00
21	4-Bromophenyl-phenylether	0.274	0.273	0.4	72	0.00
22	Hexachlorobenzene	0.374	0.381	-1.9	75	0.00
23	Atrazine	0.184	0.177	3.8	71	0.00
24	Pentachlorophenol	0.132	0.130	1.5	77	0.01
25	Phenanthrene	1.167	1.220	-4.5	75	0.00
26	Anthracene	1.062	1.126	-6.0	79	0.00
27 SURR	Fluoranthene-d10	0.993	0.948	4.5	68	0.00
28	Fluoranthene	1.361	1.297	4.7	69	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	69	0.00
30	Pyrene	1.624	1.586	2.3	70	0.00
31 S	Terphenyl-d14	0.797	0.783	1.8	69	0.00
32	Benzo(a)anthracene	1.410	1.428	-1.3	74	0.00
33	Chrysene	1.475	1.481	-0.4	71	0.00
34	Bis(2-ethylhexyl)phthalate	0.574	0.564	1.7	67	0.00
35 I	Perylene-d12	1.000	1.000	0.0	72	0.00
36	Indeno(1,2,3-cd)pyrene	1.577	1.575	0.1	80	0.00
37	Benzo(b)fluoranthene	1.374	1.279	6.9	71	0.00
38	Benzo(k)fluoranthene	1.360	1.294	4.9	74	0.00
39 C	Benzo(a)pyrene	1.190	1.192	-0.2	79	0.00
40	Dibenzo(a,h)anthracene	1.255	1.247	0.6	81	0.00
41	Benzo(g,h,i)perylene	1.403	1.260	10.2	73	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
 Data File : BN035878.D
 Acq On : 02 Jan 2025 15:51
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN010225

Quant Time: Jan 02 16:21:10 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 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	88	0.00
2	1,4-Dioxane	0.400	0.471	-17.7	111	0.00
3	n-Nitrosodimethylamine	0.400	0.419	-4.7	94	0.00
4 S	2-Fluorophenol	0.400	0.342	14.5	78	0.00
5 S	Phenol-d6	0.400	0.332	17.0	75	0.00
6	bis(2-Chloroethyl)ether	0.400	0.416	-4.0	91	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	85	0.00
8 S	Nitrobenzene-d5	0.400	0.398	0.5	91	0.00
9	Naphthalene	0.400	0.399	0.3	88	0.00
10	Hexachlorobutadiene	0.400	0.387	3.3	85	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.389	2.8	84	0.00
12	2-Methylnaphthalene	0.400	0.408	-2.0	88	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	75	0.00
14 S	2,4,6-Tribromophenol	0.400	0.350	12.5	67	0.00
15 S	2-Fluorobiphenyl	0.400	0.431	-7.7	83	0.00
16	Acenaphthylene	0.400	0.452	-13.0	88	0.00
17	Acenaphthene	0.400	0.426	-6.5	82	0.00
18	Fluorene	0.400	0.408	-2.0	80	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	70	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.410	-2.5	75	0.00
21	4-Bromophenyl-phenylether	0.400	0.398	0.5	72	0.00
22	Hexachlorobenzene	0.400	0.407	-1.7	75	0.00
23	Atrazine	0.400	0.386	3.5	71	0.00
24	Pentachlorophenol	0.400	0.392	2.0	77	0.01
25	Phenanthrene	0.400	0.418	-4.5	75	0.00
26	Anthracene	0.400	0.424	-6.0	79	0.00
27 SURR	Fluoranthene-d10	0.400	0.382	4.5	68	0.00
28	Fluoranthene	0.400	0.381	4.8	69	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	69	0.00
30	Pyrene	0.400	0.391	2.3	70	0.00
31 S	Terphenyl-d14	0.400	0.393	1.8	69	0.00
32	Benzo(a)anthracene	0.400	0.405	-1.3	74	0.00
33	Chrysene	0.400	0.402	-0.5	71	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.393	1.8	67	0.00
35 I	Perylene-d12	0.400	0.400	0.0	72	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.399	0.3	80	0.00
37	Benzo(b)fluoranthene	0.400	0.372	7.0	71	0.00
38	Benzo(k)fluoranthene	0.400	0.381	4.8	74	0.00
39 C	Benzo(a)pyrene	0.400	0.401	-0.3	79	0.00
40	Dibenzo(a,h)anthracene	0.400	0.397	0.8	81	0.00
41	Benzo(g,h,i)perylene	0.400	0.359	10.3	73	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: TETR06

Lab Code: CHEM Case No.: Q1040 SAS No.: Q1040 SDG No.: Q1040

Instrument ID: BNA_N Calibration Date/Time: 01/10/2025 13:17

Lab File ID: BN035904.D Init. Calib. Date(s): 01/02/2025 01/02/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:28 15:04

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.536	0.503		-6.2	20.0
Fluoranthene-d10	0.993	0.942		-5.1	20.0
2-Fluorophenol	0.981	0.965		-1.6	20.0
Phenol-d6	1.219	1.165		-4.4	20.0
Nitrobenzene-d5	0.317	0.347		9.5	20.0
2-Fluorobiphenyl	1.755	1.724		-1.8	20.0
2,4,6-Tribromophenol	0.192	0.204		6.3	20.0
Terphenyl-d14	0.797	0.773		-3.0	20.0
1,4-Dioxane	0.397	0.432		8.8	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011025\
 Data File : BN035904.D
 Acq On : 10 Jan 2025 13:17
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Jan 10 18:06:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

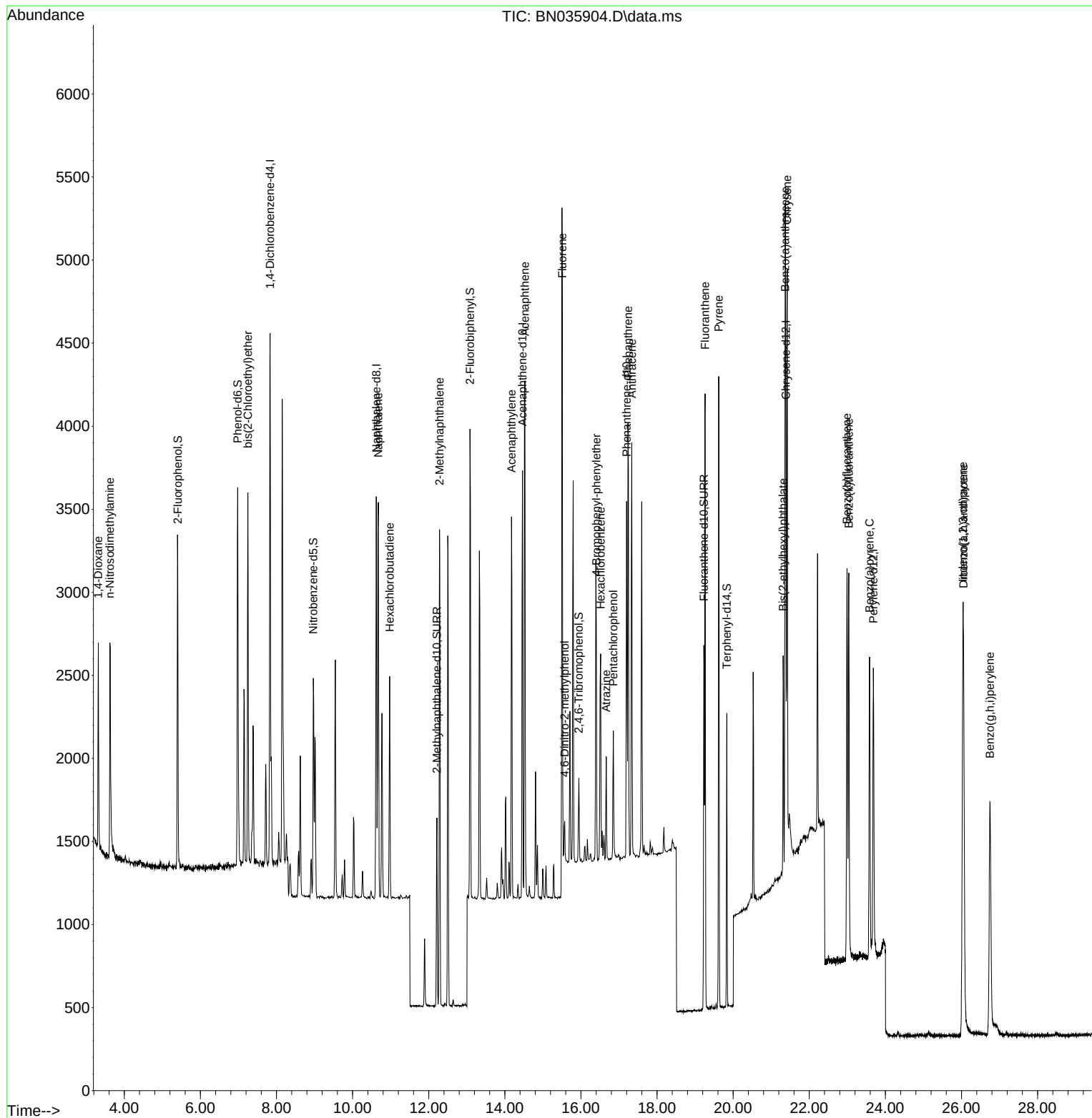
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.832	152	1524	0.400	ng	0.00
7) Naphthalene-d8	10.622	136	2846	0.400	ng	0.00
13) Acenaphthene-d10	14.463	164	1400	0.400	ng	0.00
19) Phenanthrene-d10	17.199	188	2590	0.400	ng	#-0.01
29) Chrysene-d12	21.385	240	2090	0.400	ng	0.00
35) Perylene-d12	23.684	264	2349	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.405	112	1471	0.393	ng	0.00
5) Phenol-d6	6.979	99	1775	0.382	ng	0.00
8) Nitrobenzene-d5	8.967	82	988	0.438	ng	-0.01
11) 2-Methylnaphthalene-d10	12.213	152	1431	0.376	ng	0.00
14) 2,4,6-Tribromophenol	15.945	330	286	0.425	ng	-0.01
15) 2-Fluorobiphenyl	13.084	172	2414	0.393	ng	0.00
27) Fluoranthene-d10	19.230	212	2441	0.380	ng	0.00
31) Terphenyl-d14	19.834	244	1616	0.388	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.318	88	658	0.435	ng	99
3) n-Nitrosodimethylamine	3.621	42	1137	0.431	ng	# 98
6) bis(2-Chloroethyl)ether	7.247	93	1441	0.407	ng	97
9) Naphthalene	10.675	128	3181	0.398	ng	99
10) Hexachlorobutadiene	10.974	225	1052	0.406	ng	# 94
12) 2-Methylnaphthalene	12.284	142	1881	0.381	ng	99
16) Acenaphthylene	14.174	152	2468	0.374	ng	99
17) Acenaphthene	14.527	154	1679	0.388	ng	97
18) Fluorene	15.511	166	1787	0.376	ng	98
20) 4,6-Dinitro-2-methylph...	15.573	198	214	0.476	ng	# 81
21) 4-Bromophenyl-phenylether	16.404	248	706	0.398	ng	# 77
22) Hexachlorobenzene	16.516	284	962	0.397	ng	97
23) Atrazine	16.665	200	457	0.384	ng	# 91
24) Pentachlorophenol	16.851	266	397	0.463	ng	97
25) Phenanthrene	17.236	178	2960	0.392	ng	99
26) Anthracene	17.335	178	2674	0.389	ng	99
28) Fluoranthene	19.262	202	3310	0.376	ng	99
30) Pyrene	19.620	202	3352	0.395	ng	100
32) Benzo(a)anthracene	21.367	228	2851	0.387	ng	99
33) Chrysene	21.421	228	2990	0.388	ng	98
34) Bis(2-ethylhexyl)phtha...	21.313	149	1252	0.418	ng	99
36) Indeno(1,2,3-cd)pyrene	26.037	276	3473	0.375	ng	98
37) Benzo(b)fluoranthene	22.991	252	3047	0.378	ng	97
38) Benzo(k)fluoranthene	23.037	252	3095	0.387	ng	97
39) Benzo(a)pyrene	23.584	252	2632	0.377	ng	99
40) Dibenzo(a,h)anthracene	26.052	278	2749	0.373	ng	97
41) Benzo(g,h,i)perylene	26.750	276	3136	0.381	ng	97

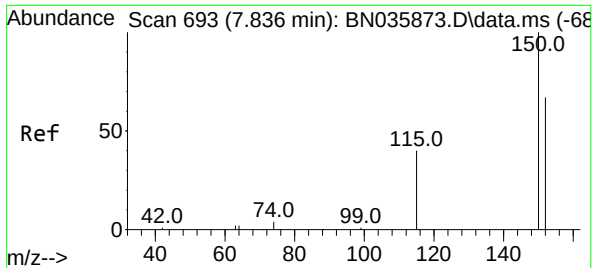
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011025\
Data File : BN035904.D
Acq On : 10 Jan 2025 13:17
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jan 10 18:06:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

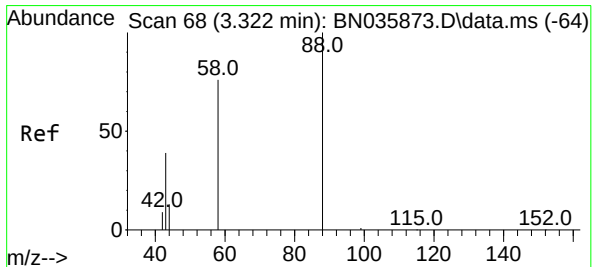
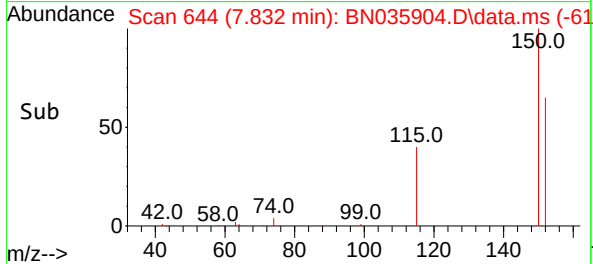
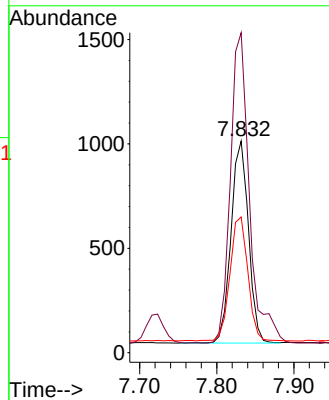
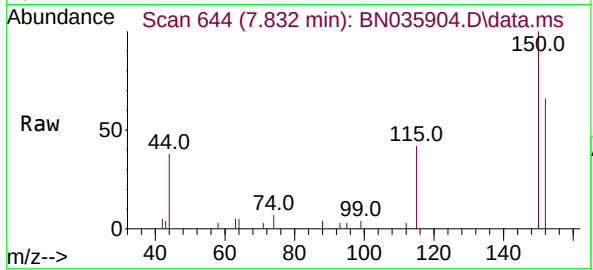




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.832 min Scan# 64
Delta R.T. -0.004 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

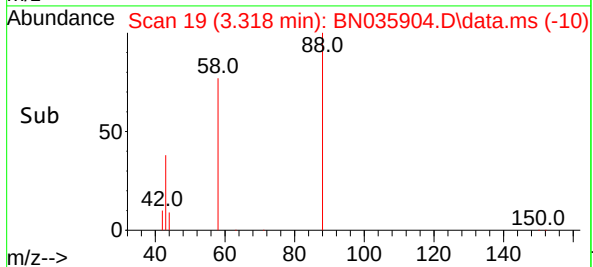
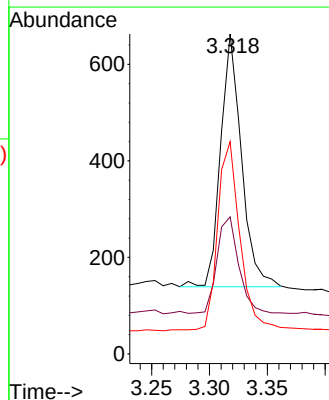
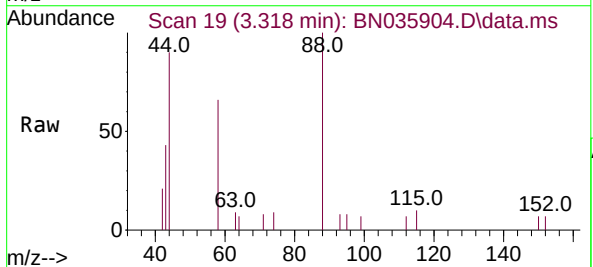
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1524
Ion Ratio Lower Upper
152 100
150 151.2 117.8 176.6
115 64.1 51.0 76.4

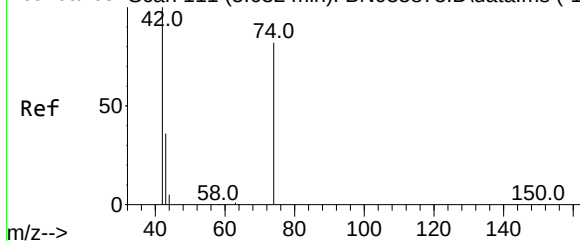


#2
1,4-Dioxane
Concen: 0.435 ng
RT: 3.318 min Scan# 19
Delta R.T. -0.004 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

Tgt Ion: 88 Resp: 658
Ion Ratio Lower Upper
88 100
43 39.5 32.7 49.1
58 78.4 63.0 94.4



Abundance Scan 111 (3.632 min): BN035873.D\data.ms (-10



#3

n-Nitrosodimethylamine

Concen: 0.431 ng

RT: 3.621 min Scan# 61

Delta R.T. -0.011 min

Lab File: BN035904.D

Acq: 10 Jan 2025 13:17

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 1137

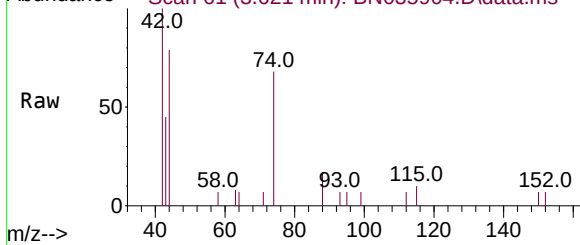
Ion Ratio Lower Upper

42 100

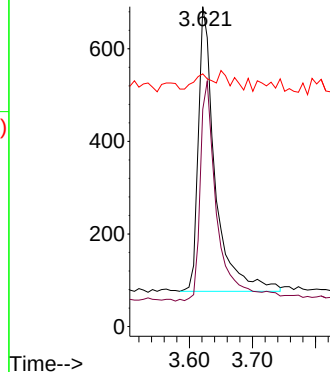
74 76.3 62.2 93.2

44 5.3 7.1 10.7#

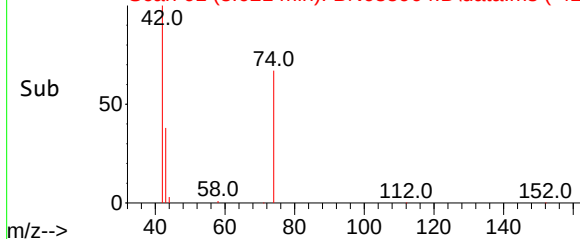
Abundance Scan 61 (3.621 min): BN035904.D\data.ms



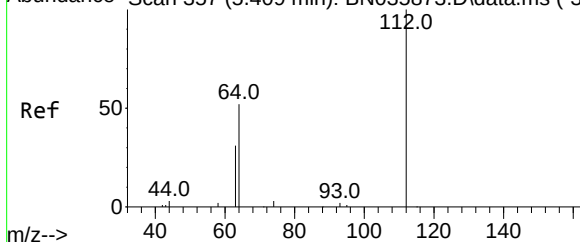
Abundance



Abundance Scan 61 (3.621 min): BN035904.D\data.ms (-42)



Abundance Scan 357 (5.409 min): BN035873.D\data.ms (-34



#4

2-Fluorophenol

Concen: 0.393 ng

RT: 5.405 min Scan# 308

Delta R.T. -0.004 min

Lab File: BN035904.D

Acq: 10 Jan 2025 13:17

Tgt Ion: 112 Resp: 1471

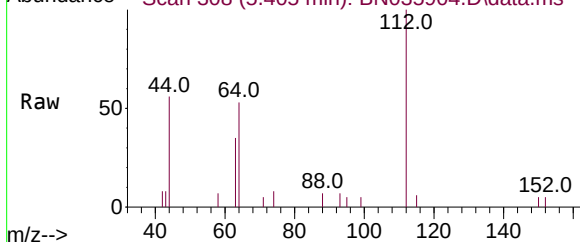
Ion Ratio Lower Upper

112 100

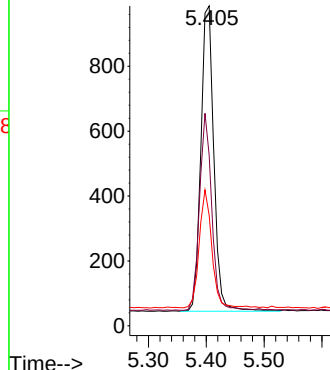
64 60.8 48.2 72.2

63 37.3 30.0 45.0

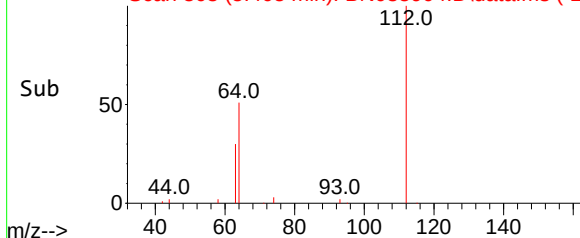
Abundance Scan 308 (5.405 min): BN035904.D\data.ms

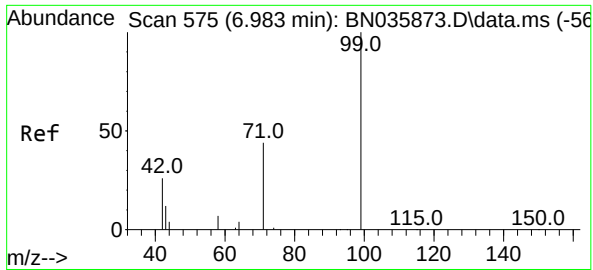


Abundance



Abundance Scan 308 (5.405 min): BN035904.D\data.ms (-28

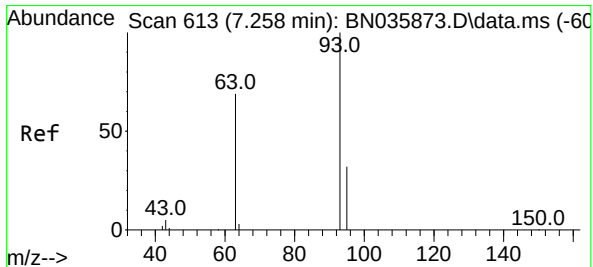
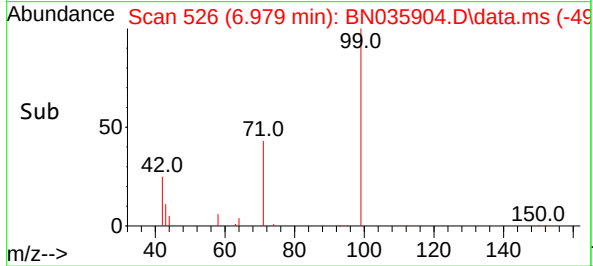
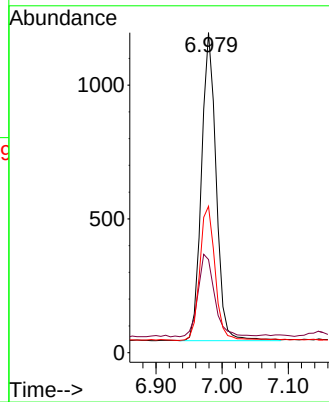
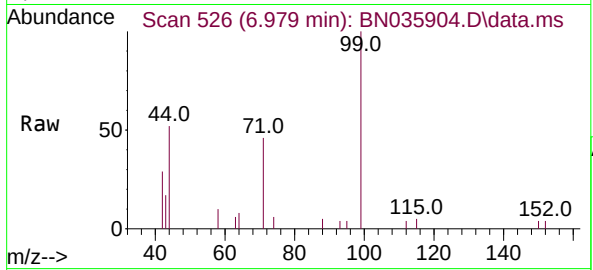




#5
Phenol-d6
Concen: 0.382 ng
RT: 6.979 min Scan# 51
Delta R.T. -0.004 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

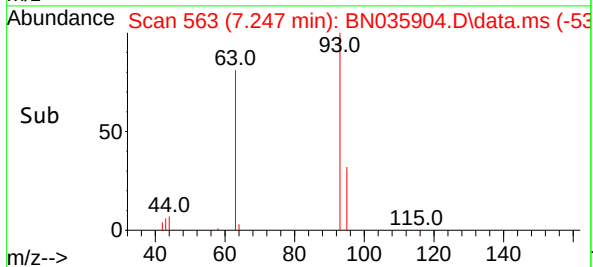
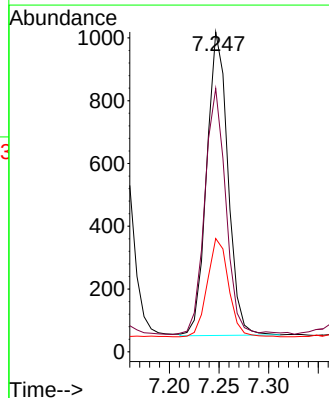
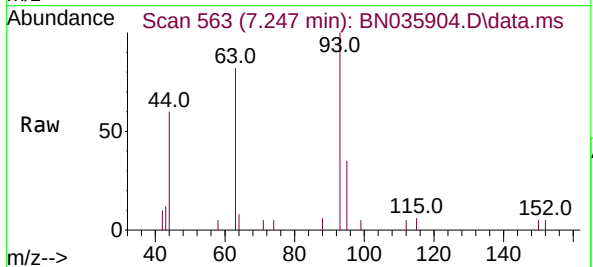
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

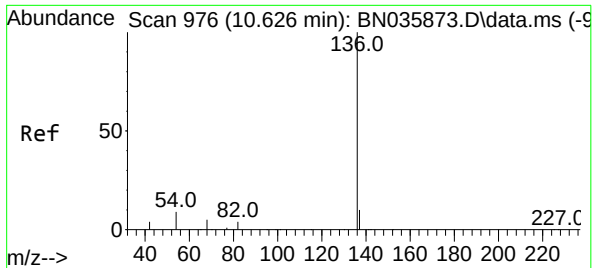
Tgt Ion: 99 Resp: 1775
Ion Ratio Lower Upper
99 100
42 30.1 23.5 35.3
71 45.8 35.5 53.3



#6
bis(2-Chloroethyl)ether
Concen: 0.407 ng
RT: 7.247 min Scan# 563
Delta R.T. -0.011 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

Tgt Ion: 93 Resp: 1441
Ion Ratio Lower Upper
93 100
63 81.3 62.0 93.0
95 32.5 25.5 38.3

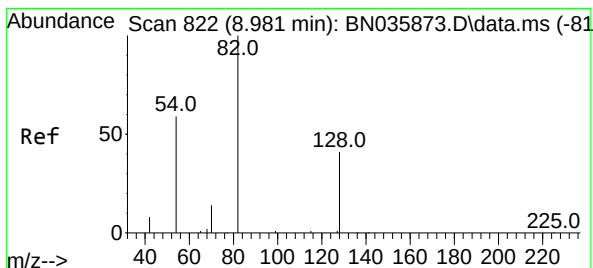
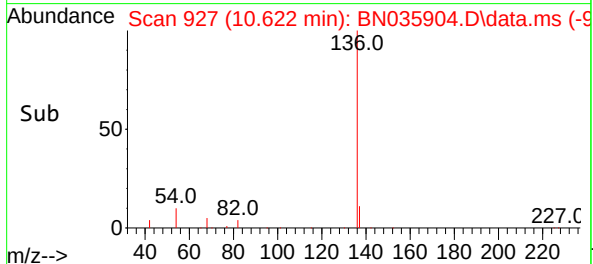
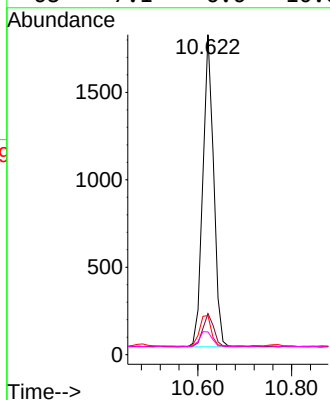
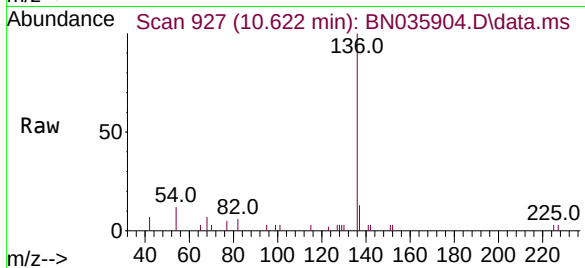




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.622 min Scan# 91
Delta R.T. -0.004 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

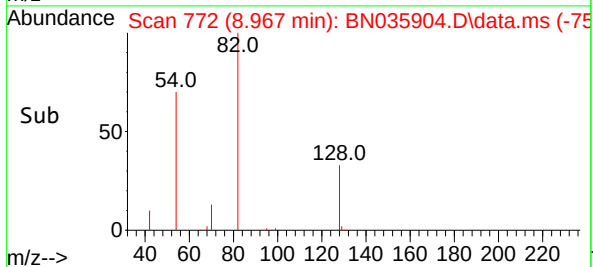
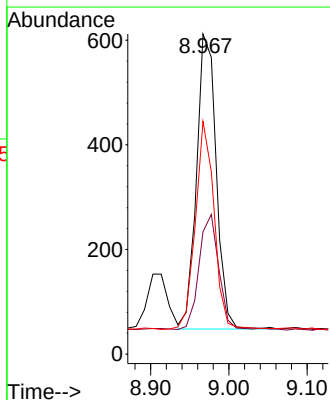
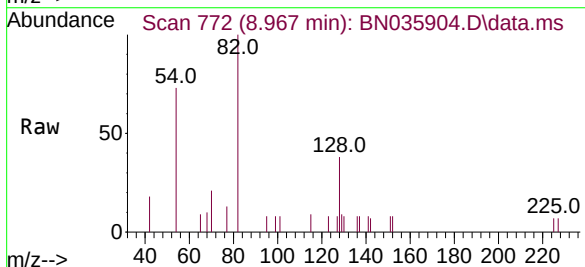
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

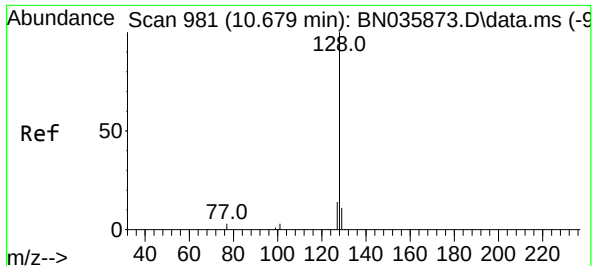
Tgt Ion:	136	Resp:	2846
Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.6	15.8
54	12.2	9.8	14.6
68	7.1	6.6	10.0



#8
Nitrobenzene-d5
Concen: 0.438 ng
RT: 8.967 min Scan# 772
Delta R.T. -0.015 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

Tgt Ion:	82	Resp:	988
Ion	Ratio	Lower	Upper
82	100		
128	38.2	36.9	55.3
54	72.7	50.4	75.6

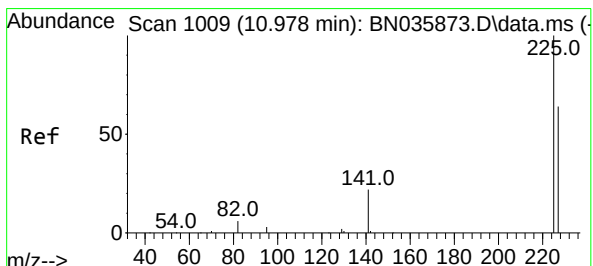
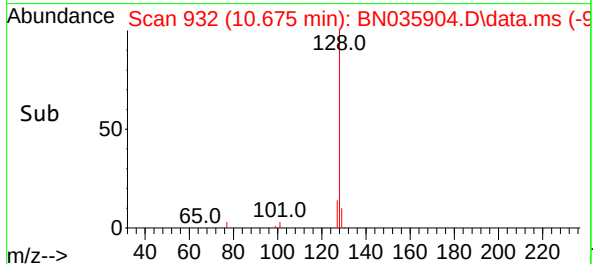
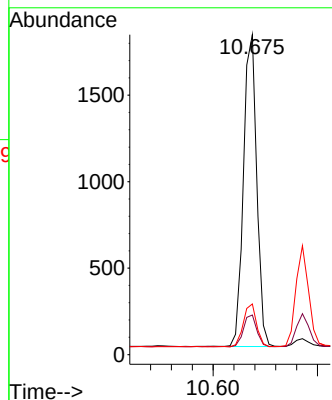
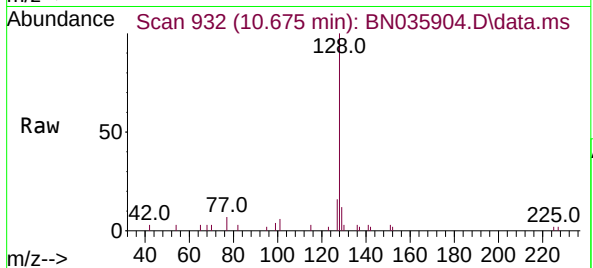




#9
Naphthalene
Concen: 0.398 ng
RT: 10.675 min Scan# 91
Delta R.T. -0.004 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

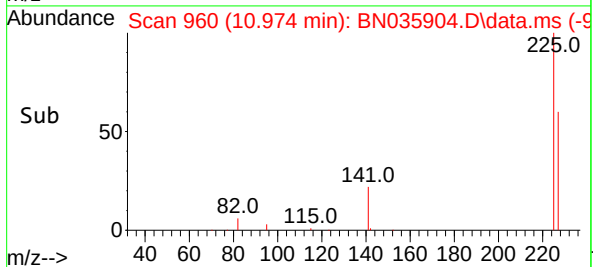
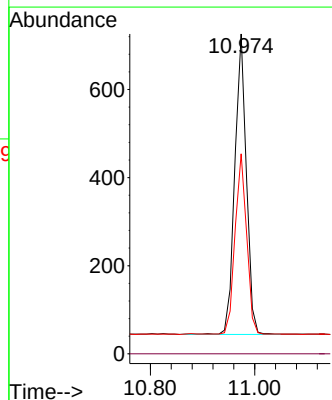
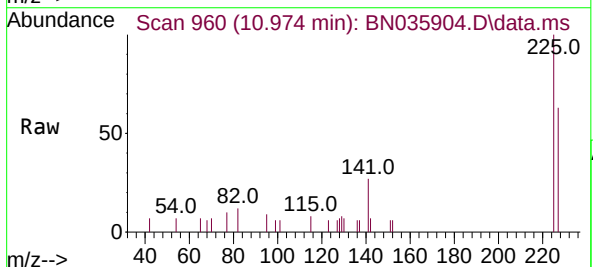
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

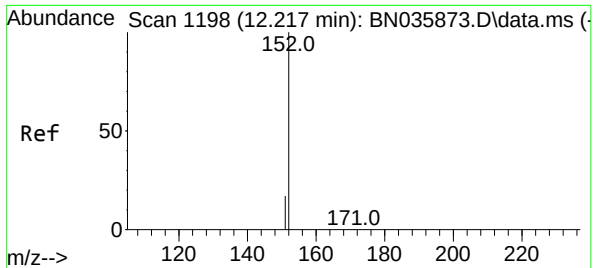
Tgt Ion:128 Resp: 3181
Ion Ratio Lower Upper
128 100
129 12.4 10.6 16.0
127 15.8 12.8 19.2



#10
Hexachlorobutadiene
Concen: 0.406 ng
RT: 10.974 min Scan# 960
Delta R.T. -0.004 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

Tgt Ion:225 Resp: 1052
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 59.6 51.5 77.3

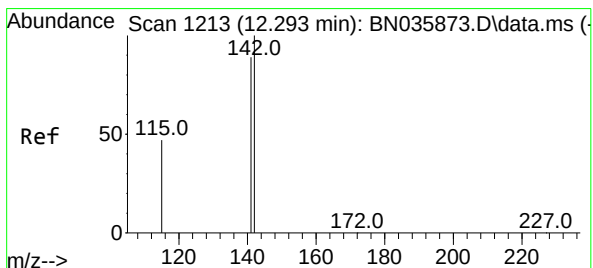
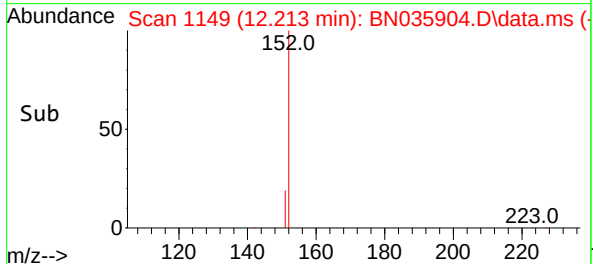
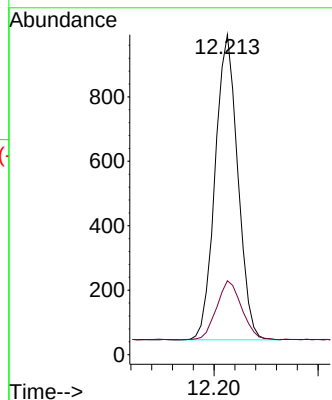
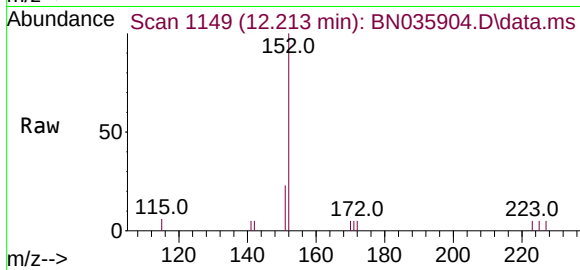




#11
2-Methylnaphthalene-d10
Concen: 0.376 ng
RT: 12.213 min Scan# 1119
Delta R.T. -0.004 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

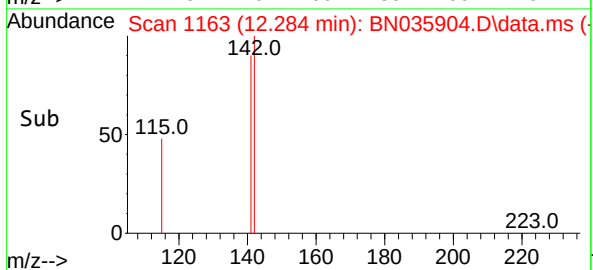
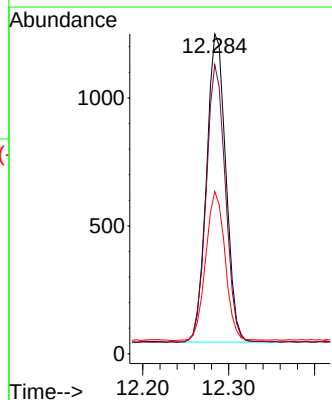
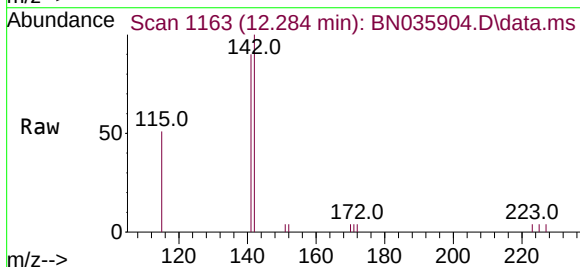
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

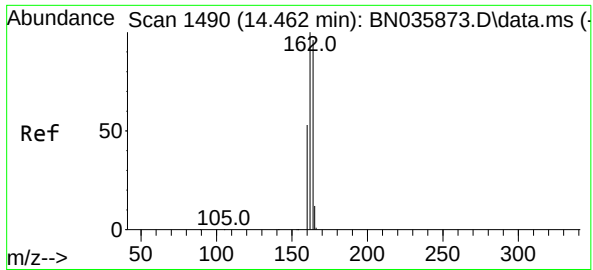
Tgt Ion:152 Resp: 1431
Ion Ratio Lower Upper
152 100
151 21.5 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.381 ng
RT: 12.284 min Scan# 1163
Delta R.T. -0.009 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

Tgt Ion:142 Resp: 1881
Ion Ratio Lower Upper
142 100
141 90.4 71.9 107.9
115 50.8 39.6 59.4

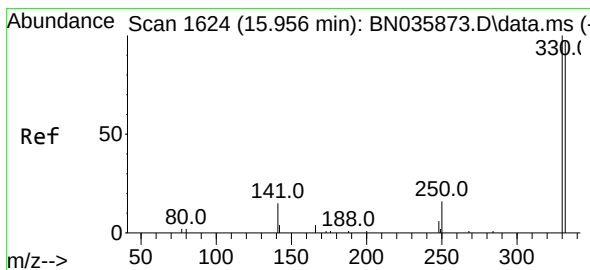
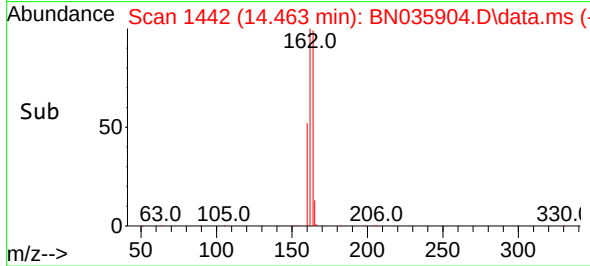
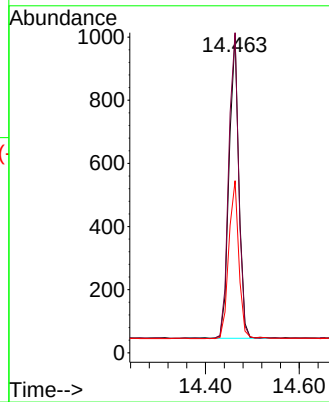
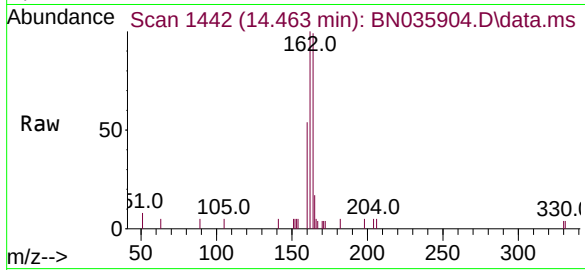




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.463 min Scan# 14
Delta R.T. 0.001 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

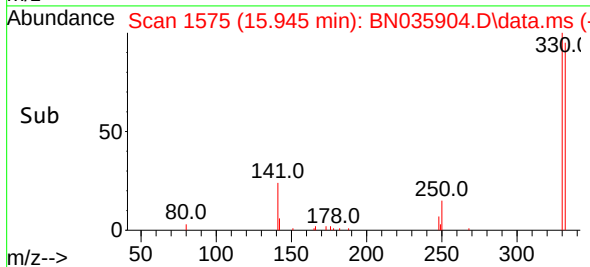
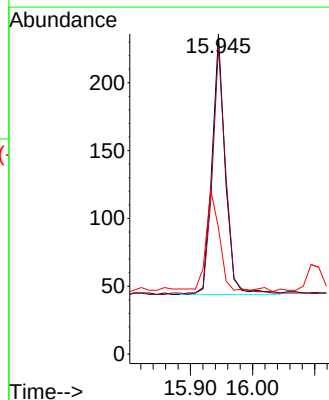
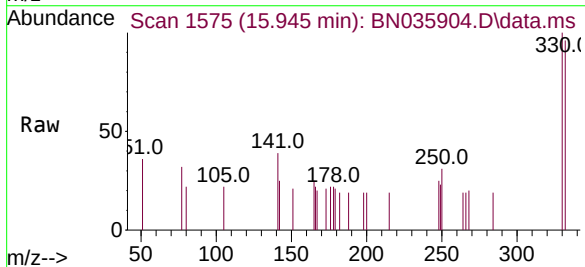
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

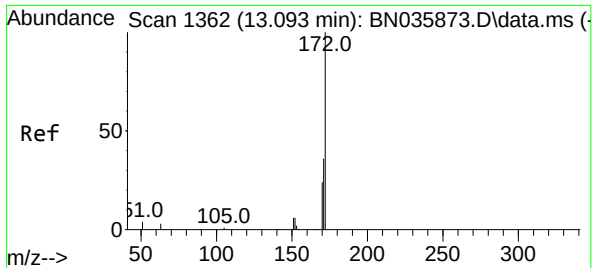
Tgt Ion	164	Resp	1400
Ion Ratio	Lower	Upper	
164	100		
162	100.9	83.1	124.7
160	54.2	46.0	69.0



#14
2,4,6-Tribromophenol
Concen: 0.425 ng
RT: 15.945 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

Tgt Ion	330	Resp	286
Ion Ratio	Lower	Upper	
330	100		
332	96.2	77.2	115.8
141	37.8	31.6	47.4

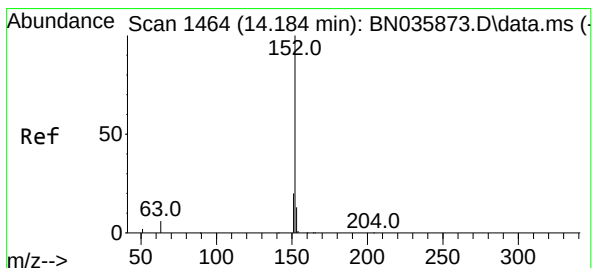
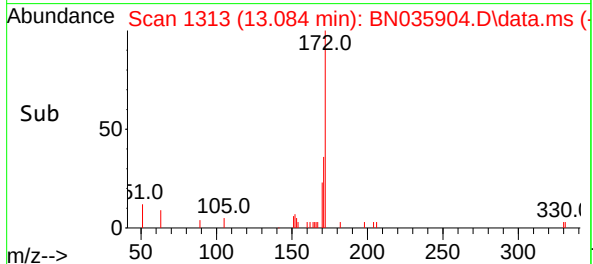
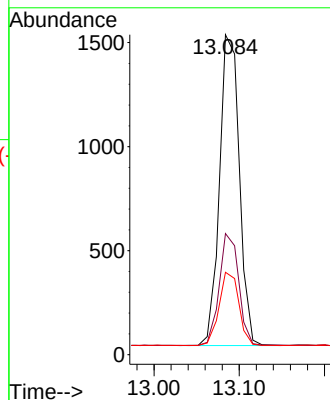
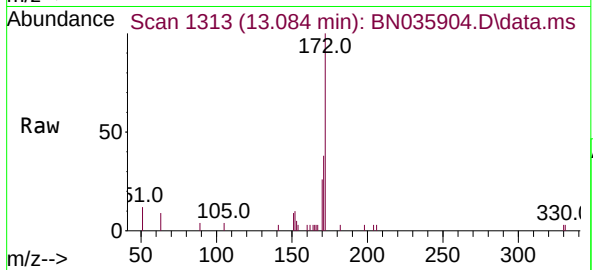




#15
2-Fluorobiphenyl
Concen: 0.393 ng
RT: 13.084 min Scan# 1412
Delta R.T. -0.010 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

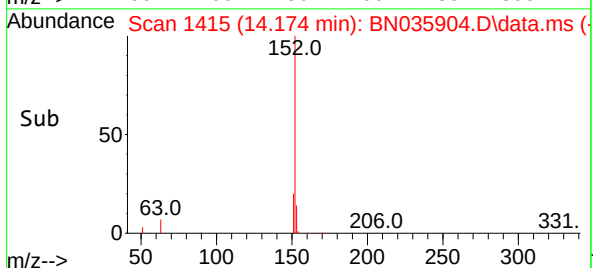
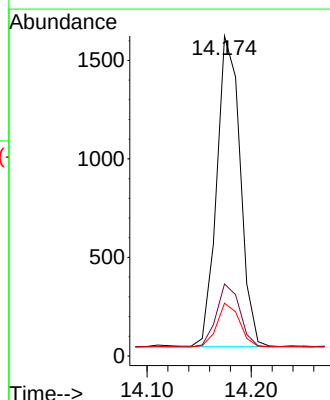
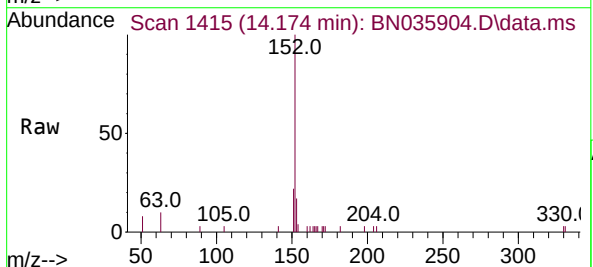
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

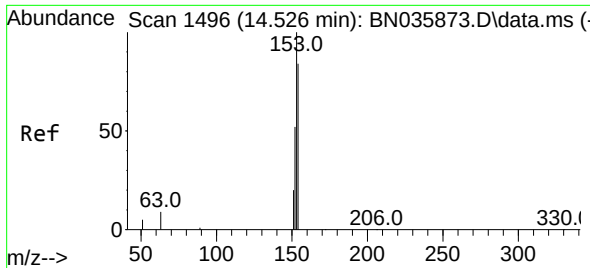
Tgt Ion:	172	Resp:	2414
Ion Ratio	Lower	Upper	
172	100		
171	37.8	30.5	45.7
170	25.7	20.8	31.2



#16
Acenaphthylene
Concen: 0.374 ng
RT: 14.174 min Scan# 1415
Delta R.T. -0.010 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

Tgt Ion:	152	Resp:	2468
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.3	24.5
153	13.8	10.6	15.8

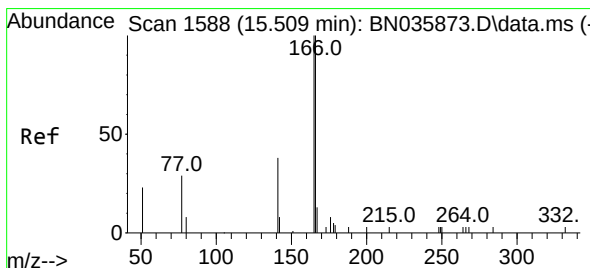
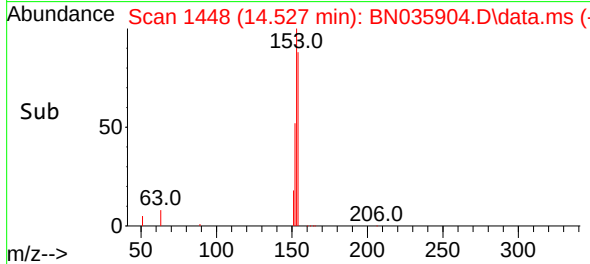
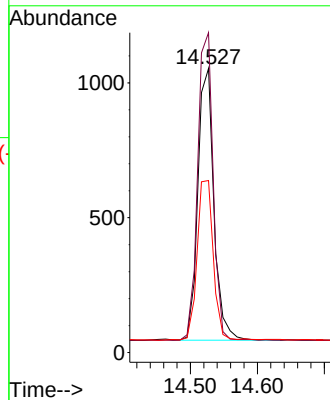
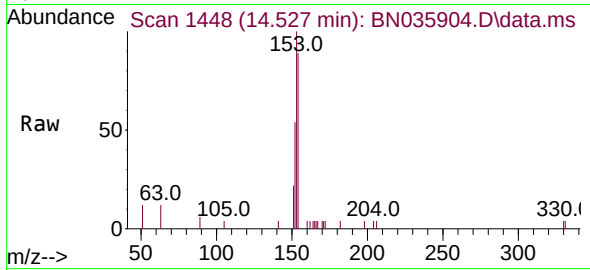




#17
Acenaphthene
Concen: 0.388 ng
RT: 14.527 min Scan# 1496
Delta R.T. 0.001 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

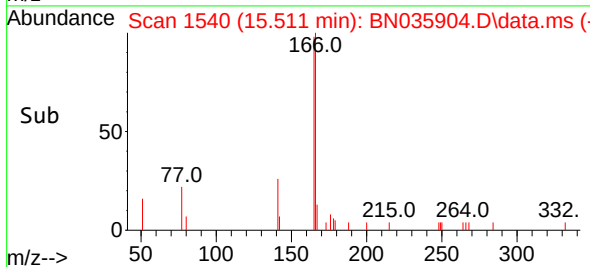
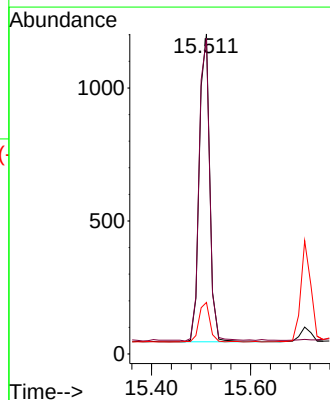
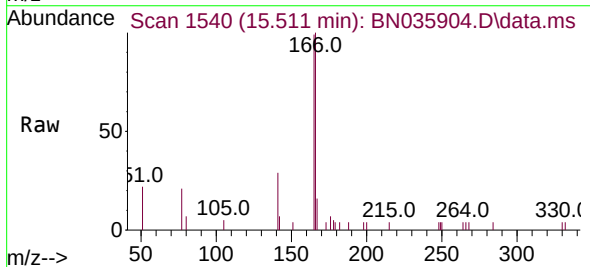
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

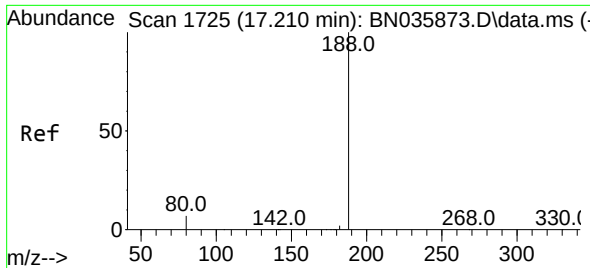
Tgt Ion:154 Resp: 1679
Ion Ratio Lower Upper
154 100
153 109.5 90.5 135.7
152 59.5 48.6 73.0



#18
Fluorene
Concen: 0.376 ng
RT: 15.511 min Scan# 1540
Delta R.T. 0.001 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

Tgt Ion:166 Resp: 1787
Ion Ratio Lower Upper
166 100
165 98.5 80.6 120.8
167 13.3 11.4 17.0

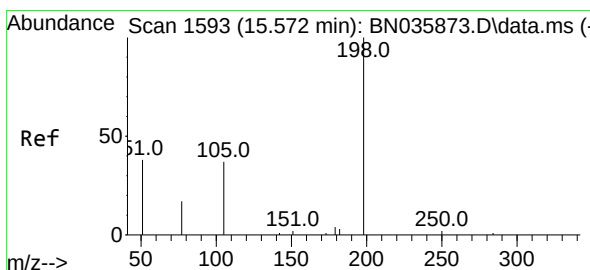
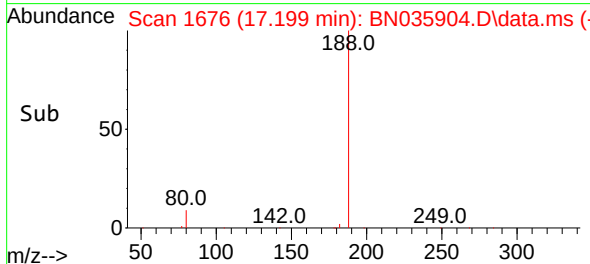
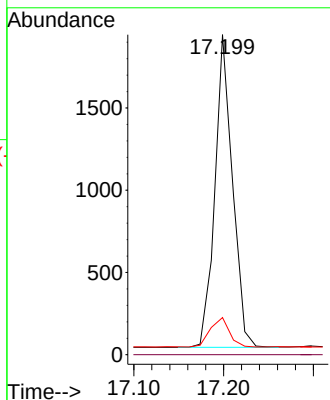
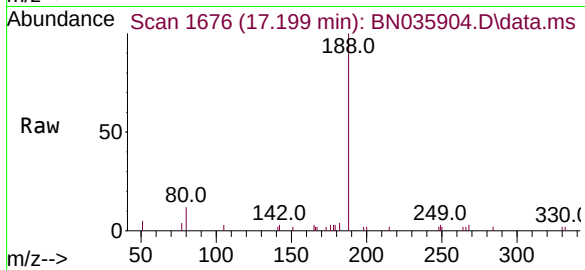




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.199 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

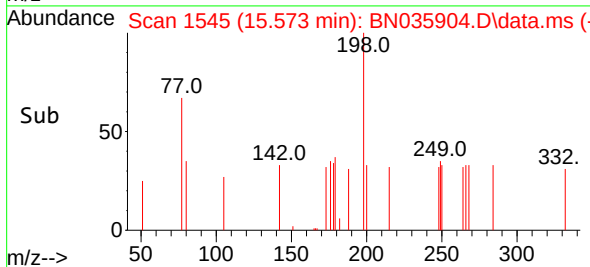
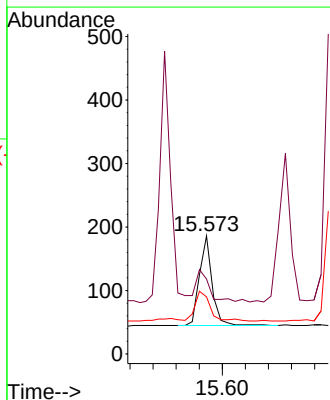
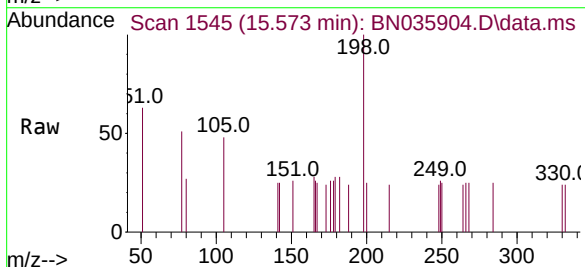
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

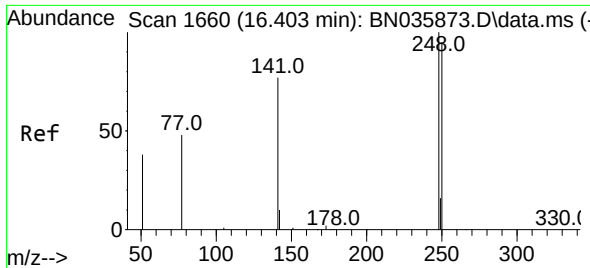
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.6	7.3	10.9#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.476 ng
RT: 15.573 min Scan# 1545
Delta R.T. 0.001 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

Tgt Ion	Ratio	Lower	Upper
198	100		
51	63.4	64.3	96.5#
105	48.4	50.0	75.0#

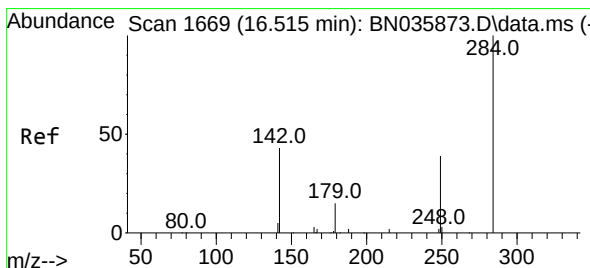
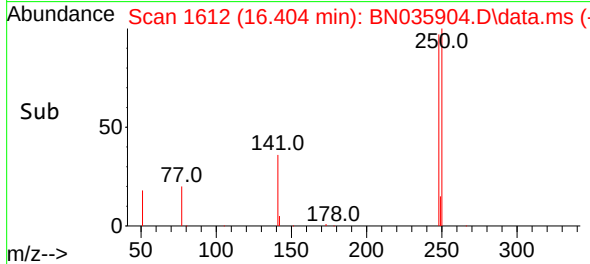
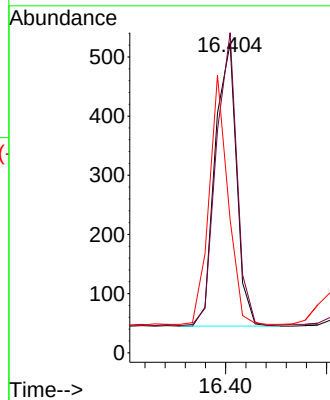
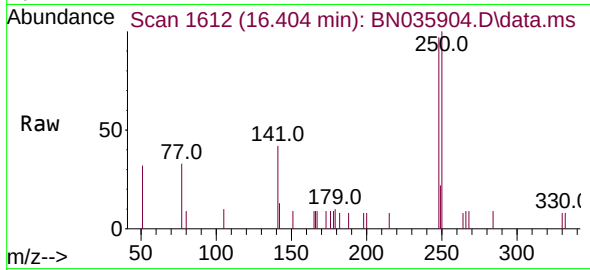




#21
4-Bromophenyl-phenylether
Concen: 0.398 ng
RT: 16.404 min Scan# 1612
Delta R.T. 0.001 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

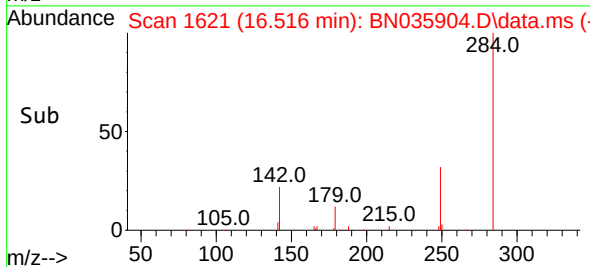
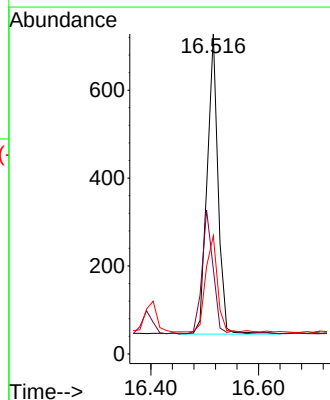
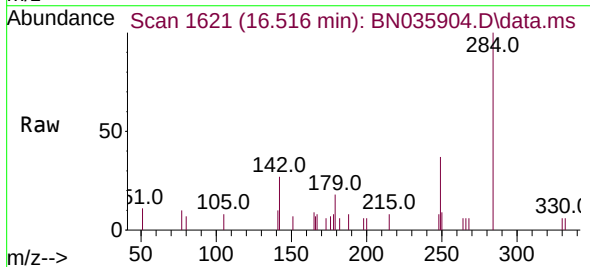
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

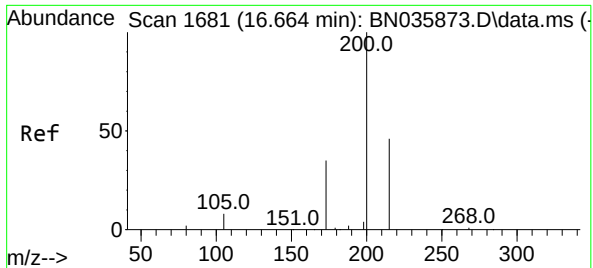
Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.4	76.8	115.2
141	43.0	63.6	95.4



#22
Hexachlorobenzene
Concen: 0.397 ng
RT: 16.516 min Scan# 1621
Delta R.T. 0.001 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

Tgt Ion	Ratio	Lower	Upper
284	100		
142	42.2	31.4	47.0
249	34.2	27.8	41.8

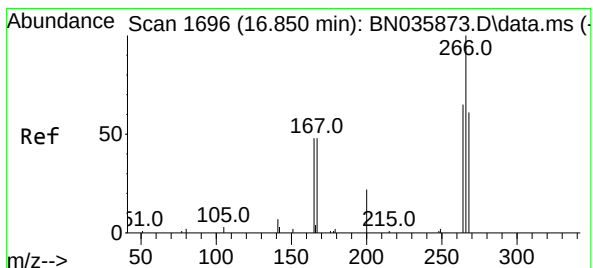
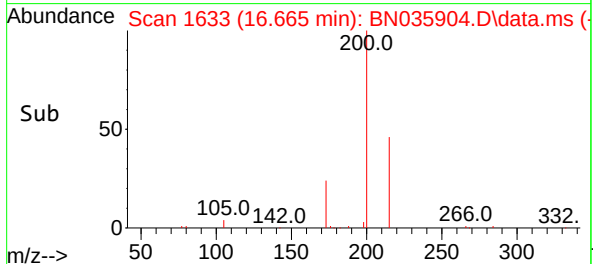
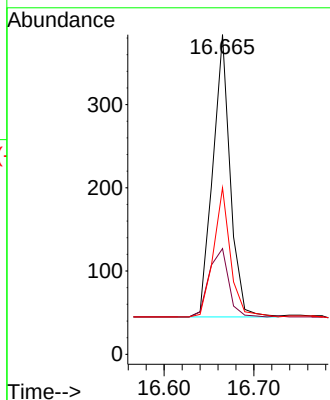
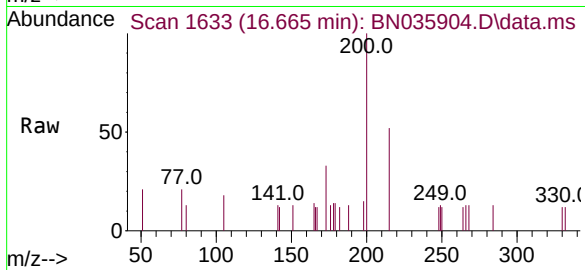




#23
Atrazine
Concen: 0.384 ng
RT: 16.665 min Scan# 1648
Delta R.T. 0.001 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

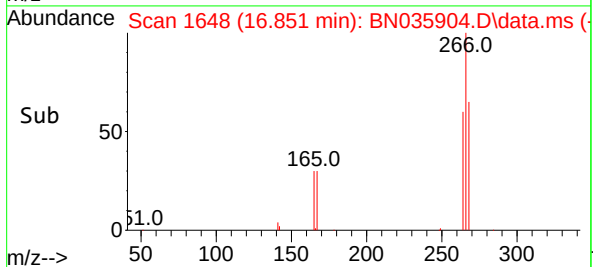
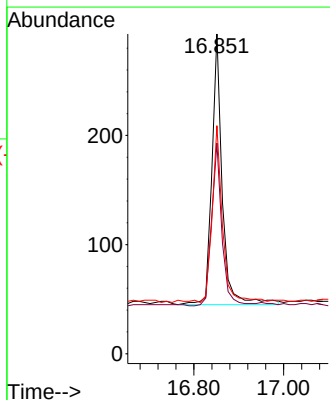
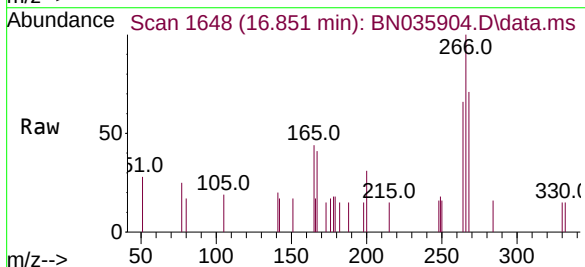
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

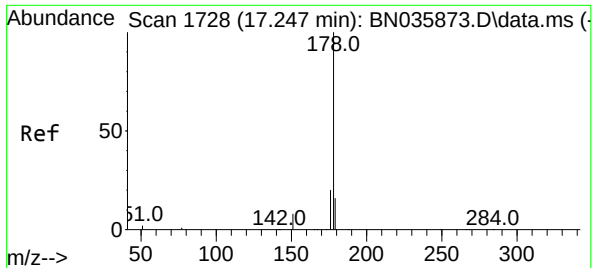
Tgt Ion	Ratio	Lower	Upper
200	100		
173	33.1	35.4	53.0#
215	52.1	42.4	63.6



#24
Pentachlorophenol
Concen: 0.463 ng
RT: 16.851 min Scan# 1648
Delta R.T. 0.001 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

Tgt Ion	Ratio	Lower	Upper
266	100		
264	59.2	49.9	74.9
268	63.7	50.2	75.2

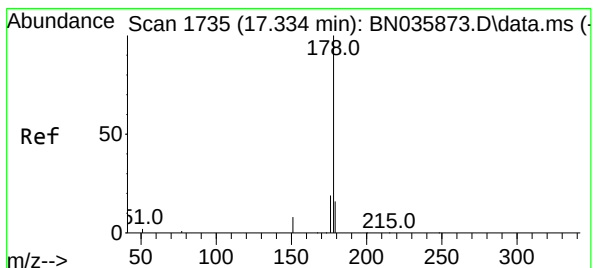
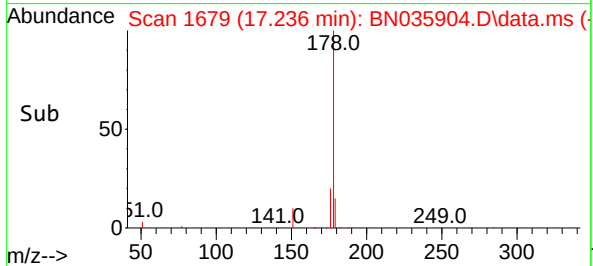
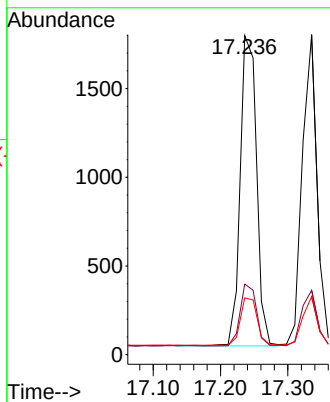
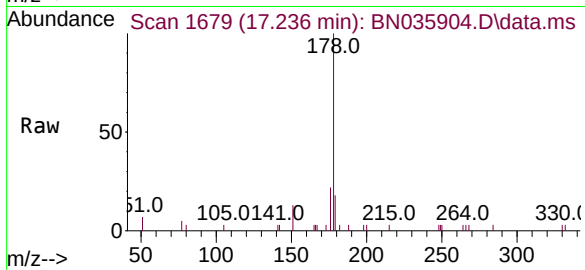




#25
Phenanthrene
Concen: 0.392 ng
RT: 17.236 min Scan# 1687
Delta R.T. -0.011 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

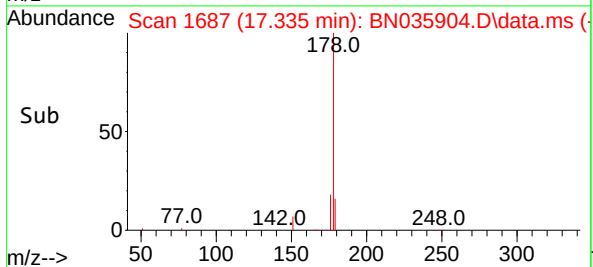
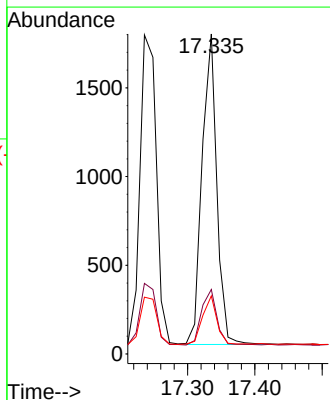
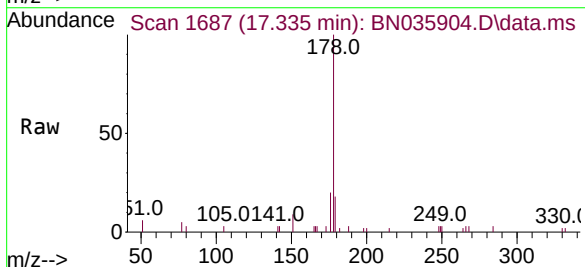
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

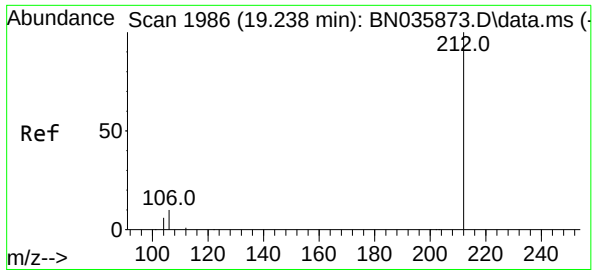
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.9	23.9
179	15.6	12.9	19.3



#26
Anthracene
Concen: 0.389 ng
RT: 17.335 min Scan# 1687
Delta R.T. 0.001 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.2	13.0	19.6

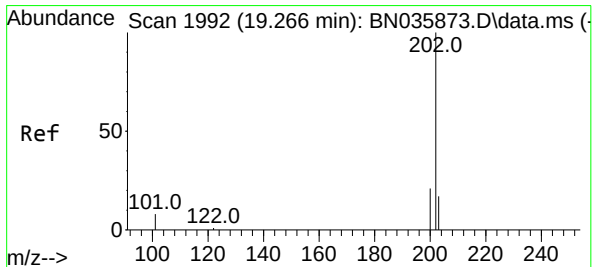
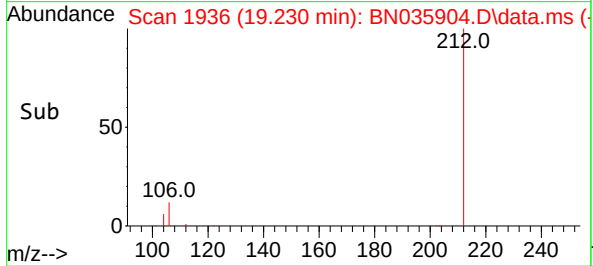
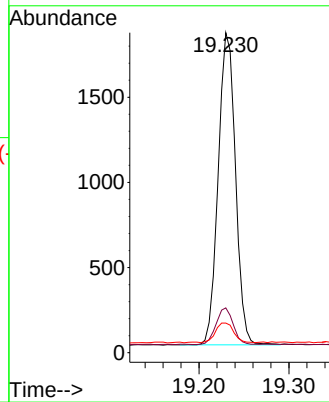
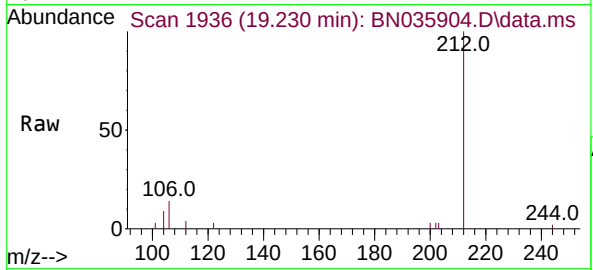




#27
Fluoranthene-d10
Concen: 0.380 ng
RT: 19.230 min Scan# 1943
Delta R.T. -0.008 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

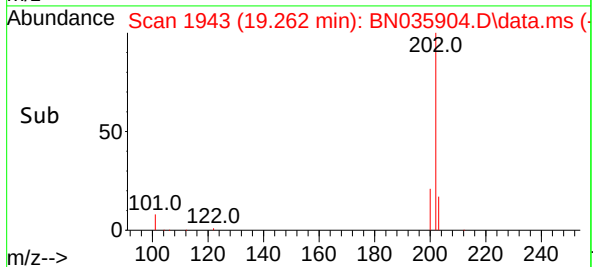
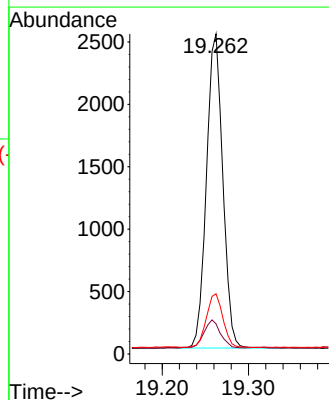
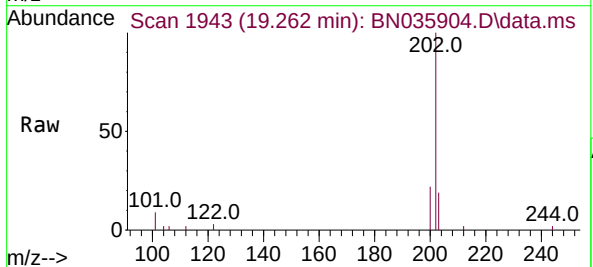
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

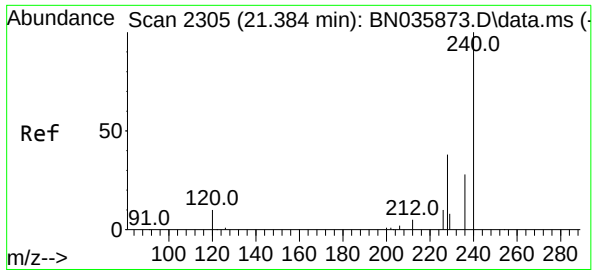
Tgt Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.0	13.6
104	6.7	5.4	8.2



#28
Fluoranthene
Concen: 0.376 ng
RT: 19.262 min Scan# 1943
Delta R.T. -0.003 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.4	7.2	10.8
203	17.2	13.9	20.9

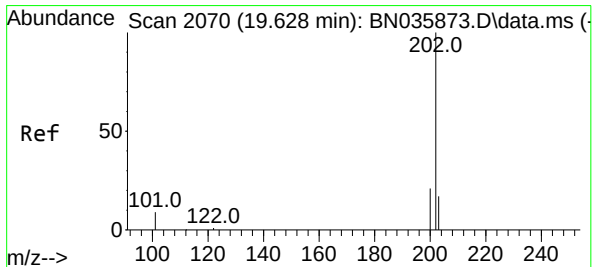
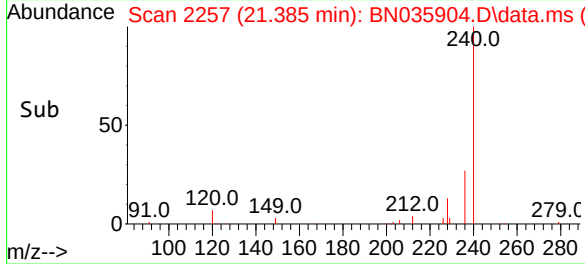
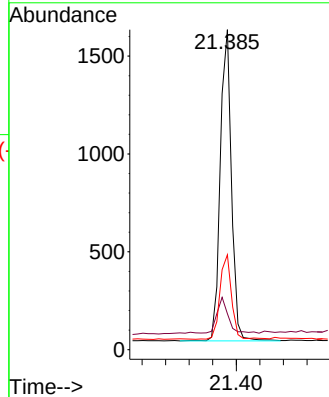
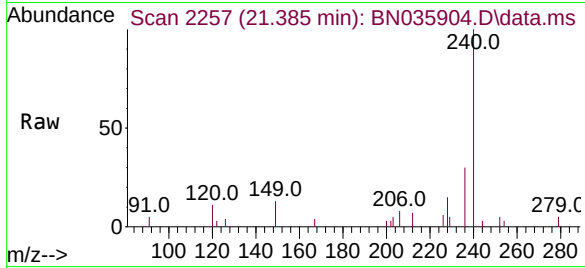




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.385 min Scan# 21
Delta R.T. 0.001 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

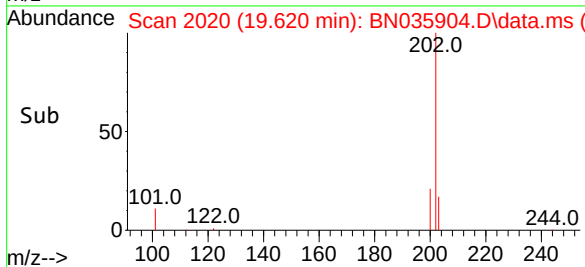
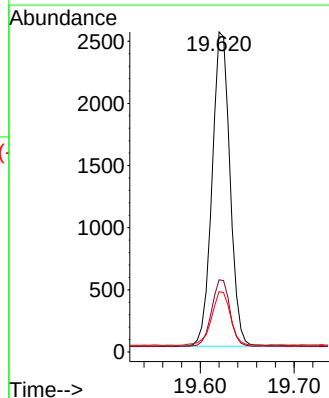
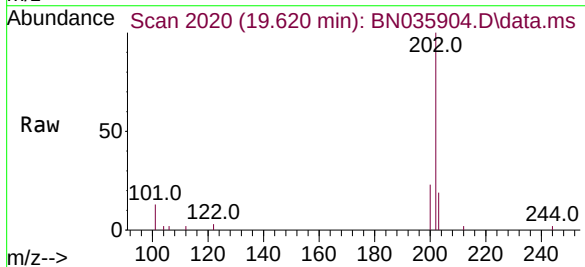
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

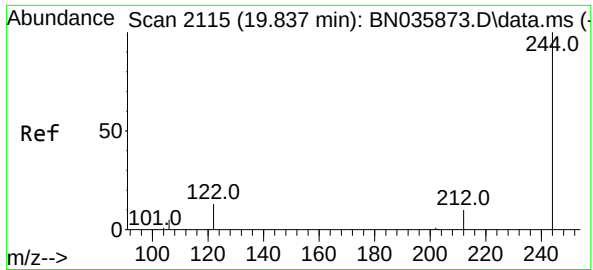
Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.3	11.1	16.7
236	29.7	24.6	36.8



#30
Pyrene
Concen: 0.395 ng
RT: 19.620 min Scan# 2020
Delta R.T. -0.008 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.0	25.6
203	18.2	14.6	22.0

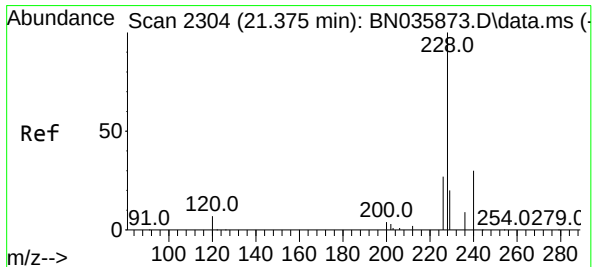
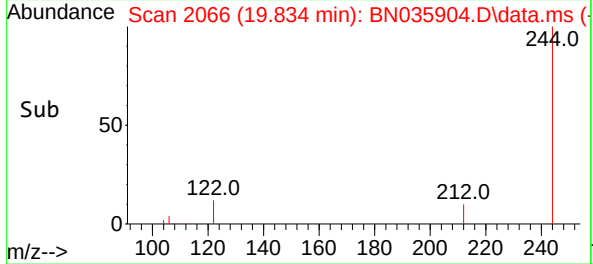
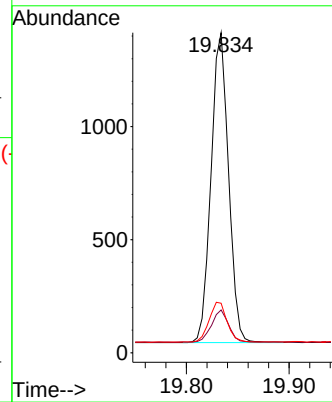
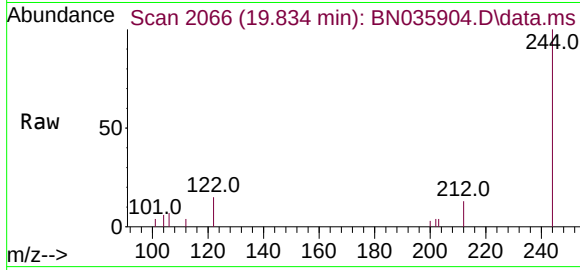




#31
Terphenyl-d14
Concen: 0.388 ng
RT: 19.834 min Scan# 20
Delta R.T. -0.003 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

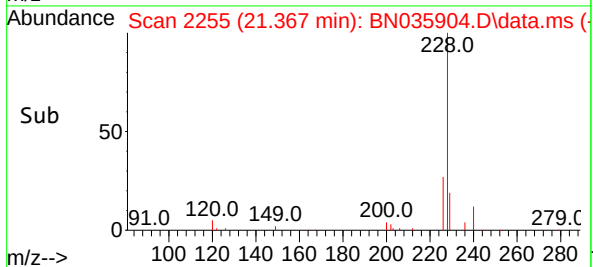
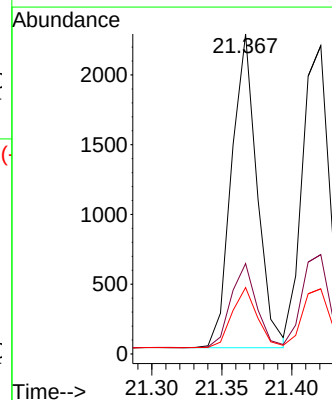
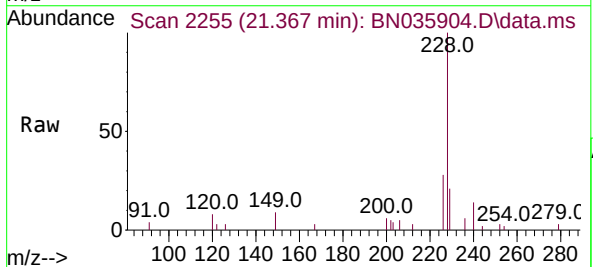
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

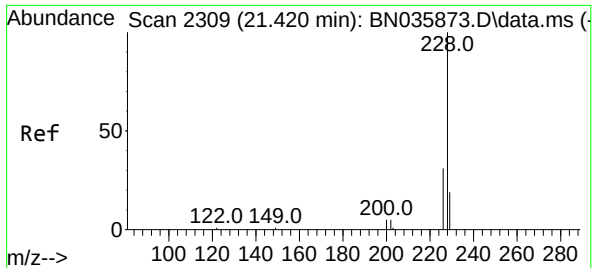
Tgt Ion:244	Resp:	1616
Ion	Ratio	Lower Upper
244	100	
212	13.4	10.1 15.1
122	15.5	12.2 18.4



#32
Benzo(a)anthracene
Concen: 0.387 ng
RT: 21.367 min Scan# 2255
Delta R.T. -0.008 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

Tgt Ion:228	Resp:	2851
Ion	Ratio	Lower Upper
228	100	
226	28.2	22.7 34.1
229	20.7	17.1 25.7

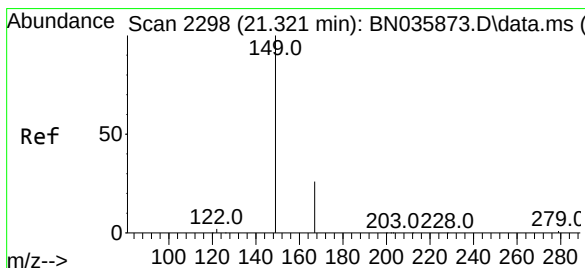
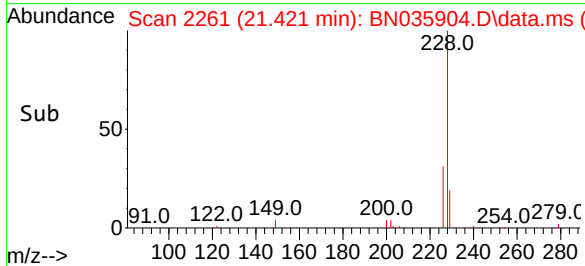
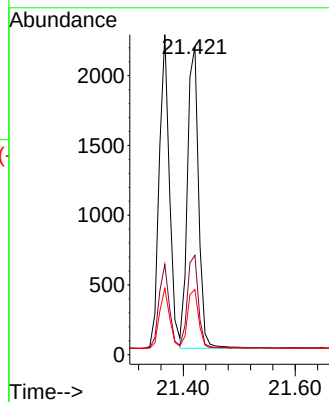
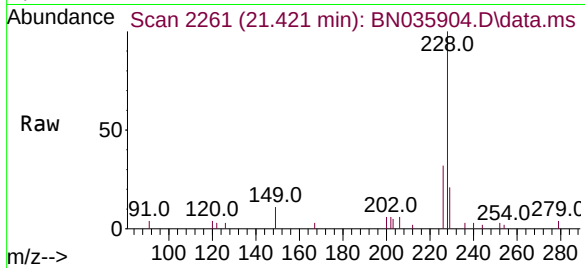




#33
Chrysene
Concen: 0.388 ng
RT: 21.421 min Scan# 2149
Delta R.T. 0.001 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

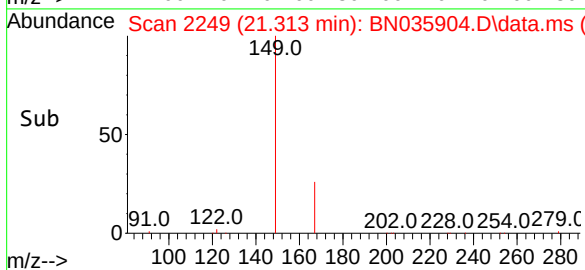
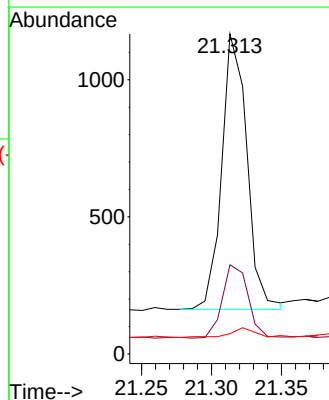
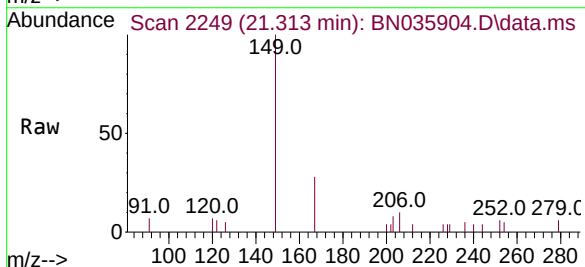
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

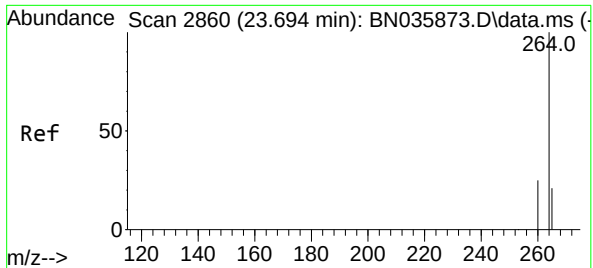
Tgt Ion:	228	Resp:	2990
Ion	Ratio	Lower	Upper
228	100		
226	32.2	25.2	37.8
229	21.1	16.0	24.0



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.418 ng
RT: 21.313 min Scan# 2249
Delta R.T. -0.008 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

Tgt Ion:	149	Resp:	1252
Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.4	32.0
279	3.8	3.0	4.6

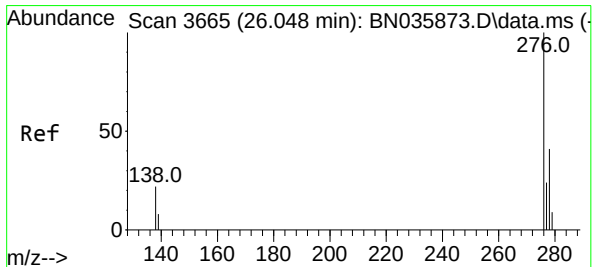
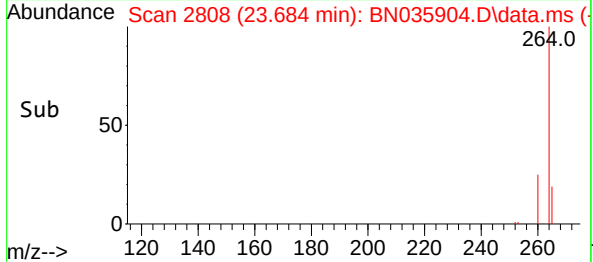
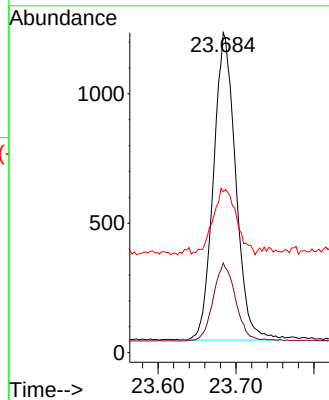
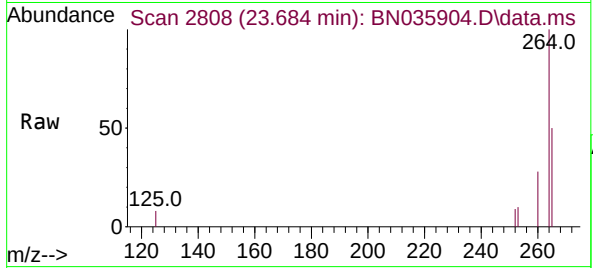




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.684 min Scan# 21
Delta R.T. -0.011 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

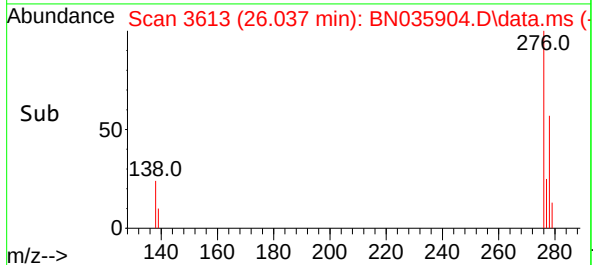
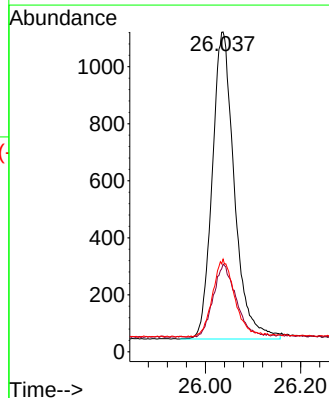
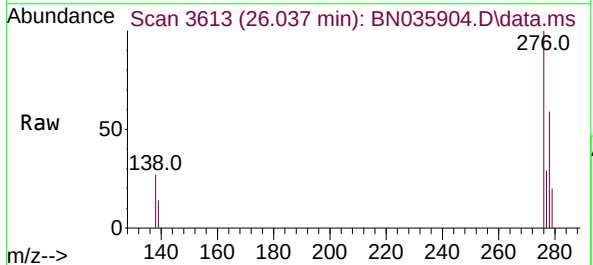
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

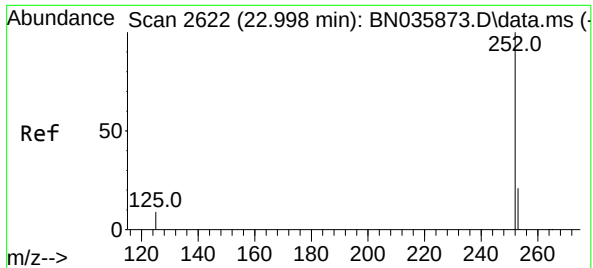
Tgt Ion:264	Resp:	2349
Ion	Ratio	Lower Upper
264	100	
260	28.1	21.7 32.5
265	50.3	33.9 50.9



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.375 ng
RT: 26.037 min Scan# 3613
Delta R.T. -0.011 min
Lab File: BN035904.D
Acq: 10 Jan 2025 13:17

Tgt Ion:276	Resp:	3473
Ion	Ratio	Lower Upper
276	100	
138	24.4	18.9 28.3
277	25.2	19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.378 ng

RT: 22.991 min Scan# 21

Delta R.T. -0.008 min

Lab File: BN035904.D

Acq: 10 Jan 2025 13:17

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

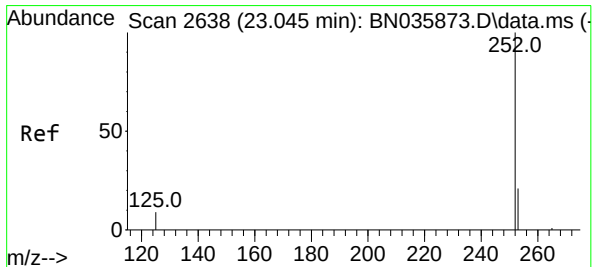
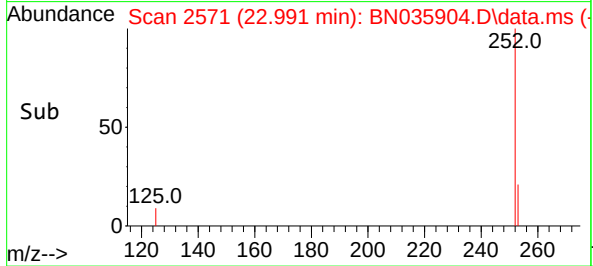
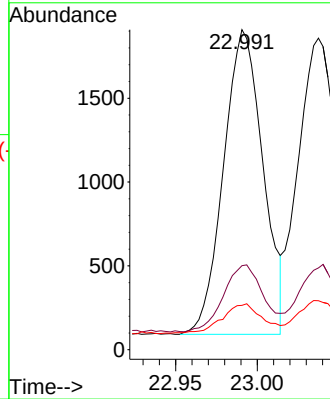
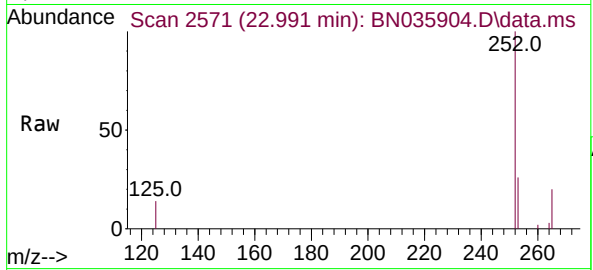
Tgt Ion:252 Resp: 3047

Ion Ratio Lower Upper

252 100

253 26.2 20.1 30.1

125 13.9 9.9 14.9



#38

Benzo(k)fluoranthene

Concen: 0.387 ng

RT: 23.037 min Scan# 2587

Delta R.T. -0.008 min

Lab File: BN035904.D

Acq: 10 Jan 2025 13:17

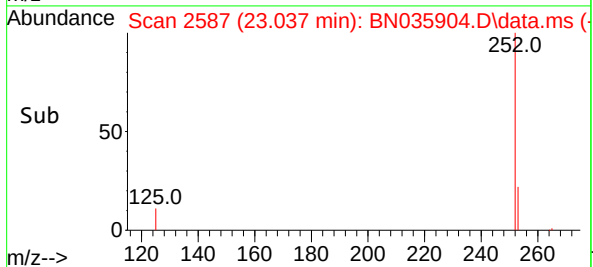
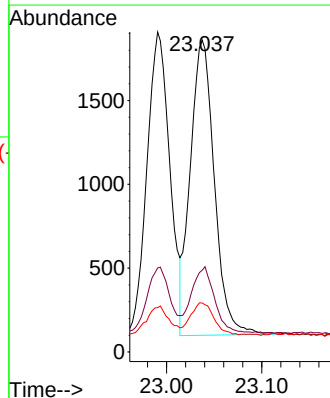
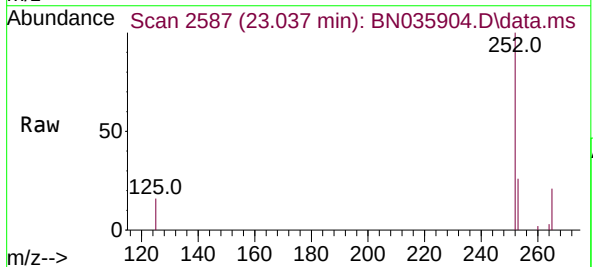
Tgt Ion:252 Resp: 3095

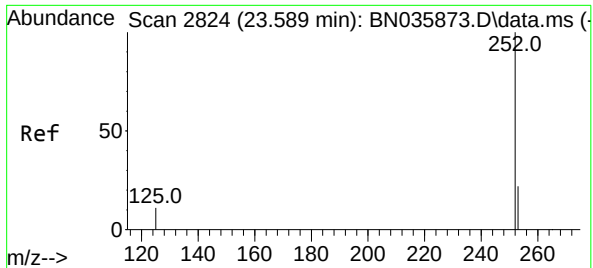
Ion Ratio Lower Upper

252 100

253 26.3 20.5 30.7

125 15.7 10.6 16.0





#39

Benzo(a)pyrene

Concen: 0.377 ng

RT: 23.584 min Scan# 21

Delta R.T. -0.005 min

Lab File: BN035904.D

Acq: 10 Jan 2025 13:17

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

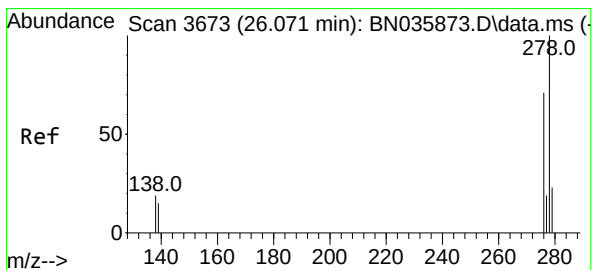
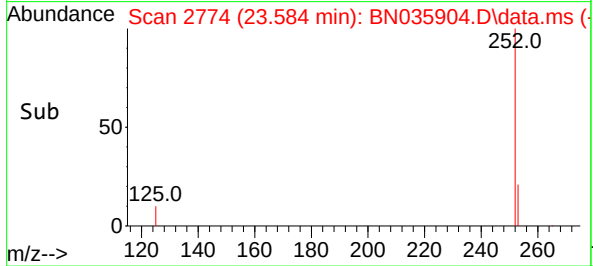
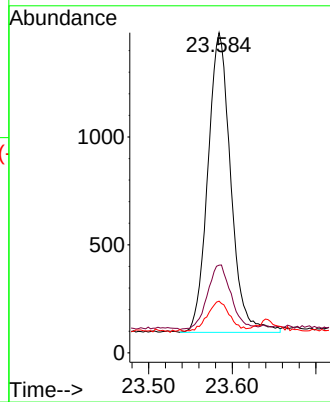
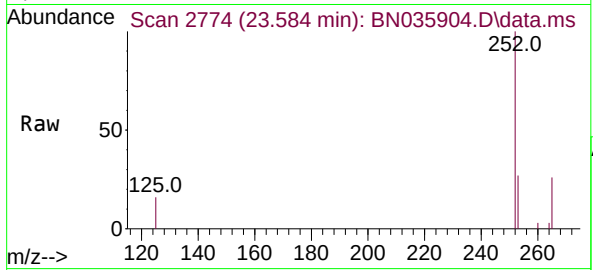
Tgt Ion:252 Resp: 2632

Ion Ratio Lower Upper

252 100

253 27.4 21.5 32.3

125 16.1 12.6 19.0



#40

Dibenzo(a,h)anthracene

Concen: 0.373 ng

RT: 26.052 min Scan# 3618

Delta R.T. -0.019 min

Lab File: BN035904.D

Acq: 10 Jan 2025 13:17

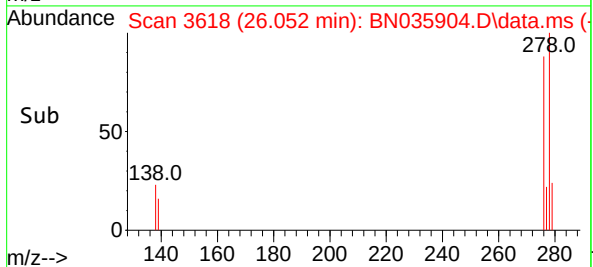
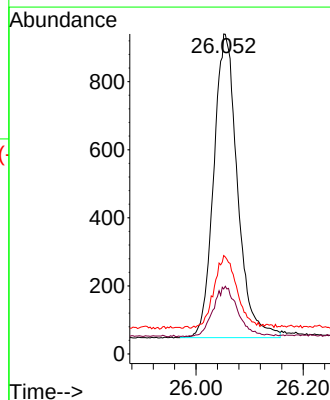
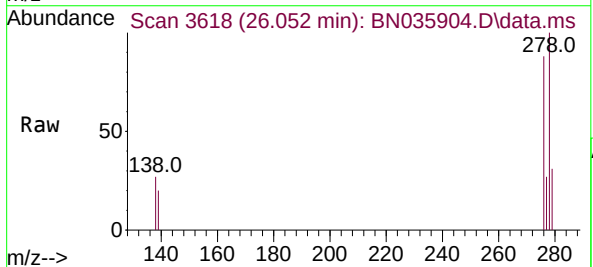
Tgt Ion:278 Resp: 2749

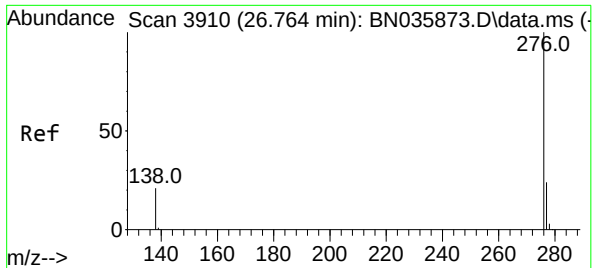
Ion Ratio Lower Upper

278 100

139 20.3 15.9 23.9

279 30.7 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 0.381 ng

RT: 26.750 min Scan# 31

Delta R.T. -0.013 min

Lab File: BN035904.D

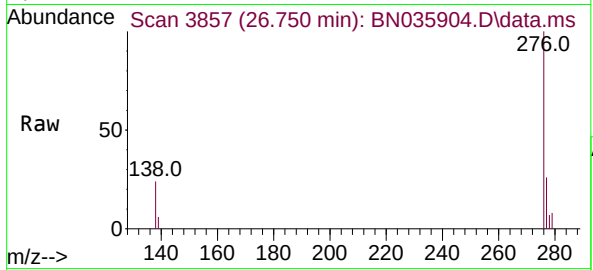
Acq: 10 Jan 2025 13:17

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



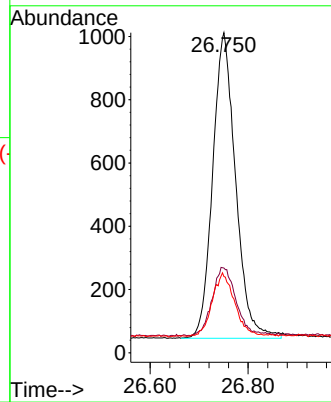
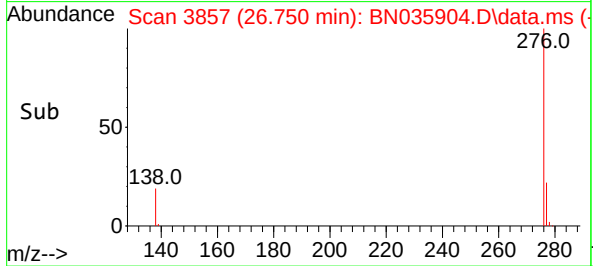
Tgt Ion:276 Resp: 3136

Ion Ratio Lower Upper

276 100

277 26.5 22.8 34.2

138 23.8 20.1 30.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011025\
Data File : BN035904.D
Acq On : 10 Jan 2025 13:17
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jan 10 18:06:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 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	121	0.00
2	1,4-Dioxane	0.397	0.432	-8.8	140	0.00
3	n-Nitrosodimethylamine	0.693	0.746	-7.6	133	-0.01
4 S	2-Fluorophenol	0.981	0.965	1.6	123	0.00
5 S	Phenol-d6	1.219	1.165	4.4	119	0.00
6	bis(2-Chloroethyl)ether	0.929	0.946	-1.8	122	-0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	110	0.00
8 S	Nitrobenzene-d5	0.317	0.347	-9.5	129	-0.01
9	Naphthalene	1.123	1.118	0.4	113	0.00
10	Hexachlorobutadiene	0.365	0.370	-1.4	115	0.00
11 SURR	2-Methylnaphthalene-d10	0.536	0.503	6.2	105	0.00
12	2-Methylnaphthalene	0.695	0.661	4.9	106	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	103	0.00
14 S	2,4,6-Tribromophenol	0.192	0.204	-6.2	112	-0.01
15 S	2-Fluorobiphenyl	1.755	1.724	1.8	104	0.00
16	Acenaphthylene	1.884	1.763	6.4	100	0.00
17	Acenaphthene	1.235	1.199	2.9	103	0.00
18	Fluorene	1.359	1.276	6.1	101	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	94	-0.01
20	4,6-Dinitro-2-methylphenol	0.069	0.083	-20.3	116	0.00
21	4-Bromophenyl-phenylether	0.274	0.273	0.4	95	0.00
22	Hexachlorobenzene	0.374	0.371	0.8	98	0.00
23	Atrazine	0.184	0.176	4.3	94	0.00
24	Pentachlorophenol	0.132	0.153	-15.9	121	0.00
25	Phenanthrene	1.167	1.143	2.1	94	-0.01
26	Anthracene	1.062	1.032	2.8	96	0.00
27 SURR	Fluoranthene-d10	0.993	0.942	5.1	90	0.00
28	Fluoranthene	1.361	1.278	6.1	90	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	88	0.00
30	Pyrene	1.624	1.604	1.2	90	0.00
31 S	Terphenyl-d14	0.797	0.773	3.0	86	0.00
32	Benzo(a)anthracene	1.410	1.364	3.3	89	0.00
33	Chrysene	1.475	1.431	3.0	87	0.00
34	Bis(2-ethylhexyl)phthalate	0.574	0.599	-4.4	90	0.00
35 I	Perylene-d12	1.000	1.000	0.0	90	-0.01
36	Indeno(1,2,3-cd)pyrene	1.577	1.479	6.2	94	-0.01
37	Benzo(b)fluoranthene	1.374	1.297	5.6	90	0.00
38	Benzo(k)fluoranthene	1.360	1.318	3.1	94	0.00
39 C	Benzo(a)pyrene	1.190	1.120	5.9	92	0.00
40	Dibenzo(a,h)anthracene	1.255	1.170	6.8	95	-0.02
41	Benzo(g,h,i)perylene	1.403	1.335	4.8	96	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011025\
Data File : BN035904.D
Acq On : 10 Jan 2025 13:17
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jan 10 18:06:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 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	121	0.00
2	1,4-Dioxane	0.400	0.435	-8.7	140	0.00
3	n-Nitrosodimethylamine	0.400	0.431	-7.7	133	-0.01
4 S	2-Fluorophenol	0.400	0.393	1.8	123	0.00
5 S	Phenol-d6	0.400	0.382	4.5	119	0.00
6	bis(2-Chloroethyl)ether	0.400	0.407	-1.7	122	-0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	110	0.00
8 S	Nitrobenzene-d5	0.400	0.438	-9.5	129	-0.01
9	Naphthalene	0.400	0.398	0.5	113	0.00
10	Hexachlorobutadiene	0.400	0.406	-1.5	115	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.376	6.0	105	0.00
12	2-Methylnaphthalene	0.400	0.381	4.8	106	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	103	0.00
14 S	2,4,6-Tribromophenol	0.400	0.425	-6.2	112	-0.01
15 S	2-Fluorobiphenyl	0.400	0.393	1.8	104	0.00
16	Acenaphthylene	0.400	0.374	6.5	100	0.00
17	Acenaphthene	0.400	0.388	3.0	103	0.00
18	Fluorene	0.400	0.376	6.0	101	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	94	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.476	-19.0	116	0.00
21	4-Bromophenyl-phenylether	0.400	0.398	0.5	95	0.00
22	Hexachlorobenzene	0.400	0.397	0.8	98	0.00
23	Atrazine	0.400	0.384	4.0	94	0.00
24	Pentachlorophenol	0.400	0.463	-15.8	121	0.00
25	Phenanthrene	0.400	0.392	2.0	94	-0.01
26	Anthracene	0.400	0.389	2.8	96	0.00
27 SURR	Fluoranthene-d10	0.400	0.380	5.0	90	0.00
28	Fluoranthene	0.400	0.376	6.0	90	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	88	0.00
30	Pyrene	0.400	0.395	1.3	90	0.00
31 S	Terphenyl-d14	0.400	0.388	3.0	86	0.00
32	Benzo(a)anthracene	0.400	0.387	3.3	89	0.00
33	Chrysene	0.400	0.388	3.0	87	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.418	-4.5	90	0.00
35 I	Perylene-d12	0.400	0.400	0.0	90	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.375	6.3	94	-0.01
37	Benzo(b)fluoranthene	0.400	0.378	5.5	90	0.00
38	Benzo(k)fluoranthene	0.400	0.387	3.3	94	0.00
39 C	Benzo(a)pyrene	0.400	0.377	5.8	92	0.00
40	Dibenzo(a,h)anthracene	0.400	0.373	6.8	95	-0.02
41	Benzo(g,h,i)perylene	0.400	0.381	4.8	96	-0.01

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1040 SAS No.: Q1040 SDG No.: Q1040

Instrument ID: BNA_N Calibration Date/Time: 01/10/2025 21:20

Lab File ID: BN035912.D Init. Calib. Date(s): 01/02/2025 01/02/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:28 15:04

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.536	0.515		-3.9	50.0
Fluoranthene-d10	0.993	0.961		-3.2	50.0
2-Fluorophenol	0.981	0.915		-6.7	50.0
Phenol-d6	1.219	1.137		-6.8	50.0
Nitrobenzene-d5	0.317	0.351		10.7	50.0
2-Fluorobiphenyl	1.755	1.801		2.6	50.0
2,4,6-Tribromophenol	0.192	0.220		14.6	50.0
Terphenyl-d14	0.797	0.765		-4.0	50.0
1,4-Dioxane	0.397	0.410		3.3	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011025\
 Data File : BN035912.D
 Acq On : 10 Jan 2025 21:20
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Jan 10 22:14:48 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

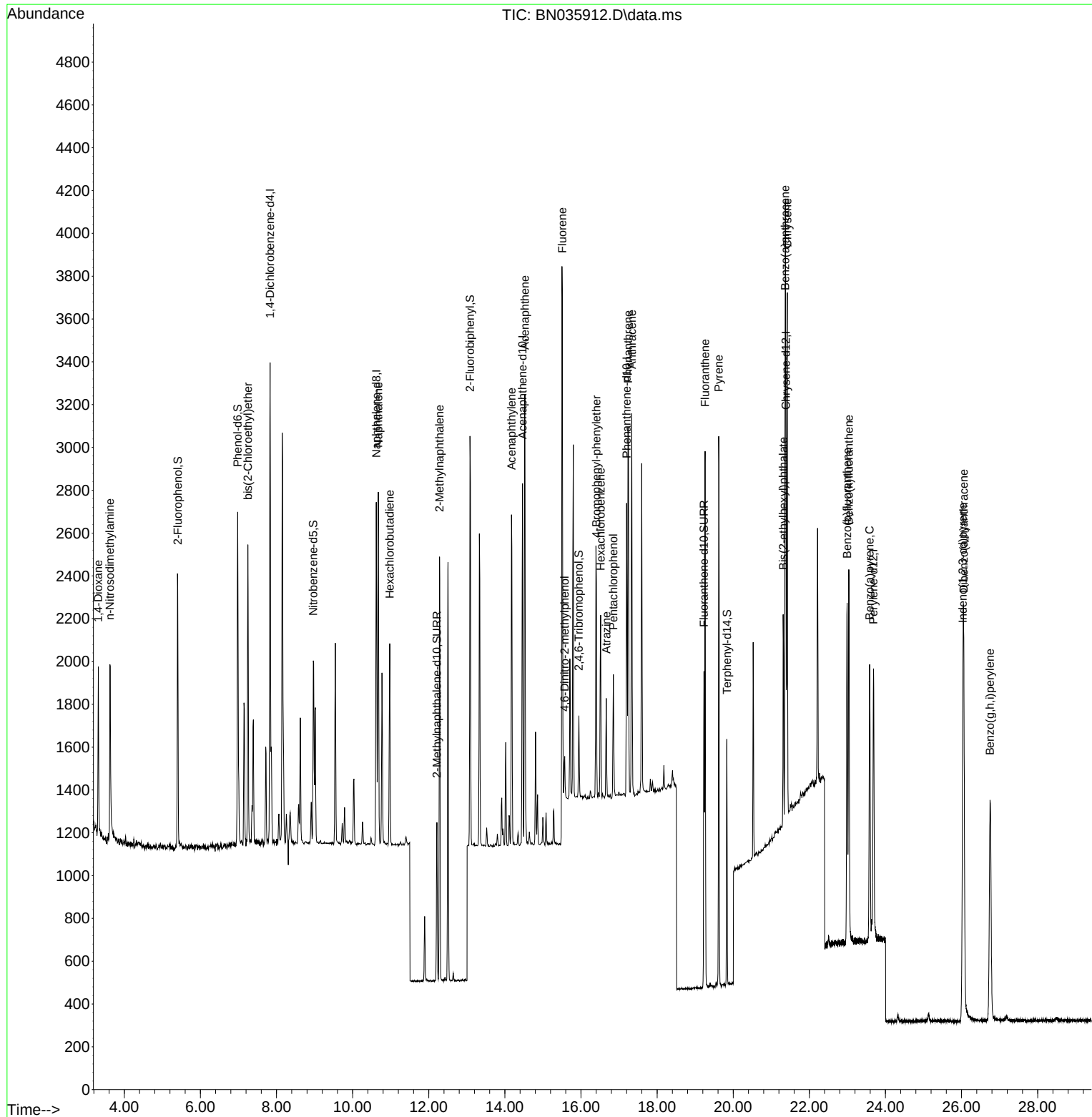
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.832	152	1033	0.400	ng	0.00
7) Naphthalene-d8	10.622	136	1896	0.400	ng	0.00
13) Acenaphthene-d10	14.463	164	908	0.400	ng	0.00
19) Phenanthrene-d10	17.199	188	1715	0.400	ng	#-0.01
29) Chrysene-d12	21.385	240	1402	0.400	ng	0.00
35) Perylene-d12	23.686	264	1689	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.405	112	945	0.373	ng	0.00
5) Phenol-d6	6.979	99	1174	0.373	ng	0.00
8) Nitrobenzene-d5	8.967	82	666	0.444	ng	-0.01
11) 2-Methylnaphthalene-d10	12.213	152	977	0.385	ng	0.00
14) 2,4,6-Tribromophenol	15.945	330	200	0.459	ng	-0.01
15) 2-Fluorobiphenyl	13.084	172	1635	0.410	ng	0.00
27) Fluoranthene-d10	19.230	212	1648	0.387	ng	0.00
31) Terphenyl-d14	19.834	244	1072	0.384	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.318	88	424	0.413	ng	# 92
3) n-Nitrosodimethylamine	3.621	42	786	0.439	ng	86
6) bis(2-Chloroethyl)ether	7.247	93	901	0.376	ng	96
9) Naphthalene	10.675	128	2101	0.395	ng	98
10) Hexachlorobutadiene	10.974	225	735	0.425	ng	# 99
12) 2-Methylnaphthalene	12.284	142	1282	0.389	ng	96
16) Acenaphthylene	14.174	152	1721	0.402	ng	100
17) Acenaphthene	14.527	154	1171	0.418	ng	95
18) Fluorene	15.511	166	1214	0.394	ng	97
20) 4,6-Dinitro-2-methylph...	15.573	198	180	0.604	ng	# 80
21) 4-Bromophenyl-phenylether	16.404	248	505	0.429	ng	# 78
22) Hexachlorobenzene	16.516	284	643	0.401	ng	96
23) Atrazine	16.665	200	330	0.418	ng	# 93
24) Pentachlorophenol	16.851	266	267	0.470	ng	98
25) Phenanthrene	17.236	178	2015	0.403	ng	100
26) Anthracene	17.335	178	1809	0.397	ng	99
28) Fluoranthene	19.262	202	2230	0.382	ng	99
30) Pyrene	19.620	202	2313	0.406	ng	99
32) Benzo(a)anthracene	21.367	228	1990	0.403	ng	97
33) Chrysene	21.421	228	2033	0.393	ng	97
34) Bis(2-ethylhexyl)phtha...	21.313	149	959	0.477	ng	99
36) Indeno(1,2,3-cd)pyrene	26.034	276	2628	0.395	ng	97
37) Benzo(b)fluoranthene	22.991	252	2167	0.373	ng	95
38) Benzo(k)fluoranthene	23.037	252	2235m	0.389	ng	
39) Benzo(a)pyrene	23.584	252	1927	0.384	ng	97
40) Dibenzo(a,h)anthracene	26.057	278	2091	0.395	ng	95
41) Benzo(g,h,i)perylene	26.747	276	2297	0.388	ng	97

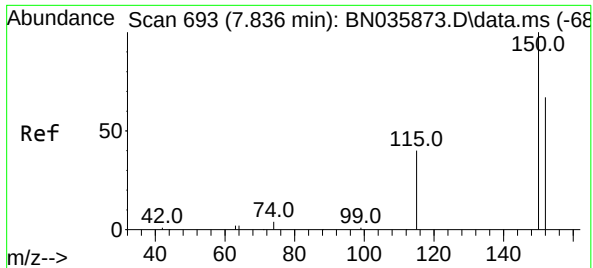
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011025\
Data File : BN035912.D
Acq On : 10 Jan 2025 21:20
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Jan 10 22:14:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

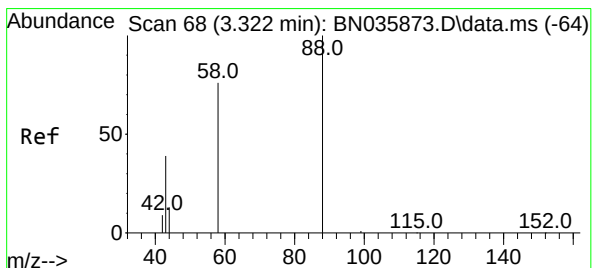
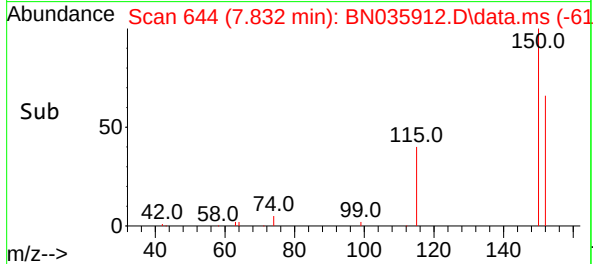
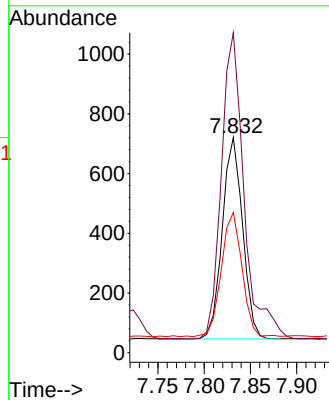
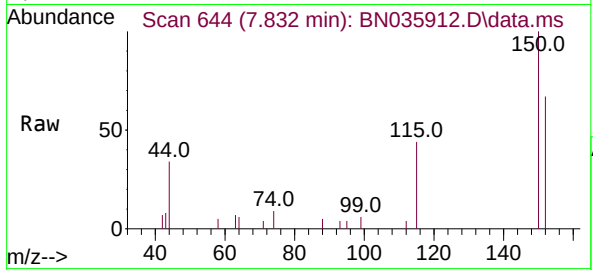




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.832 min Scan# 64
Delta R.T. -0.004 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

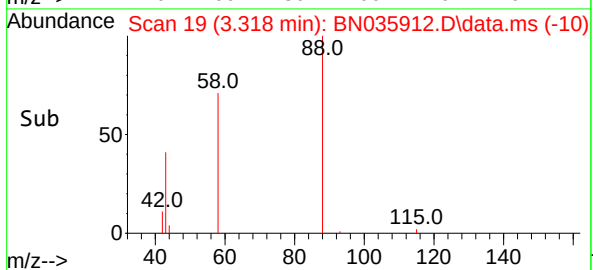
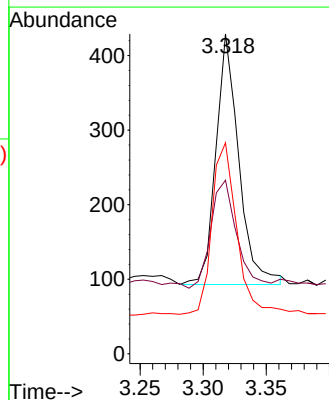
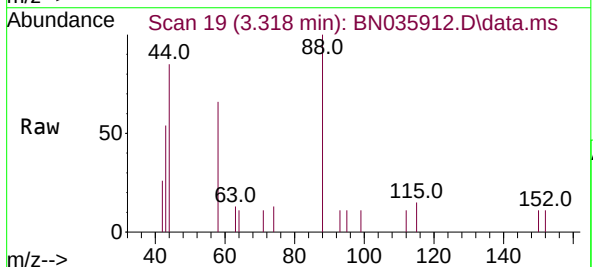
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1033
Ion Ratio Lower Upper
152 100
150 148.7 117.8 176.6
115 65.2 51.0 76.4

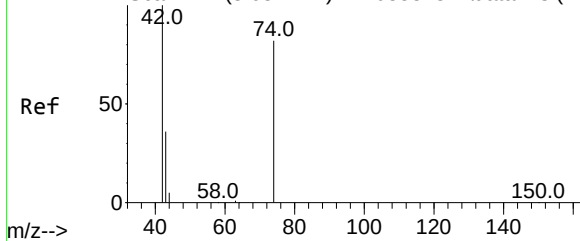


#2
1,4-Dioxane
Concen: 0.413 ng
RT: 3.318 min Scan# 19
Delta R.T. -0.004 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Tgt Ion: 88 Resp: 424
Ion Ratio Lower Upper
88 100
43 49.3 32.7 49.1#
58 73.8 63.0 94.4



Abundance Scan 111 (3.632 min): BN035873.D\data.ms (-10



#3

n-Nitrosodimethylamine

Concen: 0.439 ng

RT: 3.621 min Scan# 61

Delta R.T. -0.011 min

Lab File: BN035912.D

Acq: 10 Jan 2025 21:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

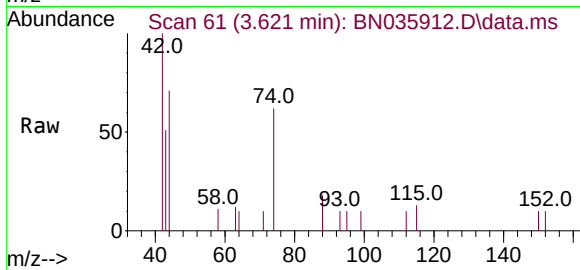
Tgt Ion: 42 Resp: 786

Ion Ratio Lower Upper

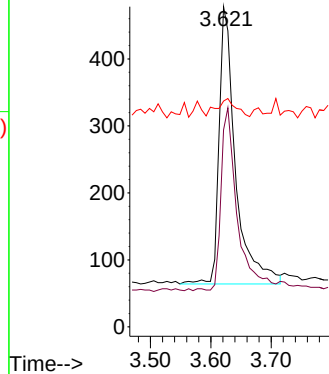
42 100

74 64.1 62.2 93.2

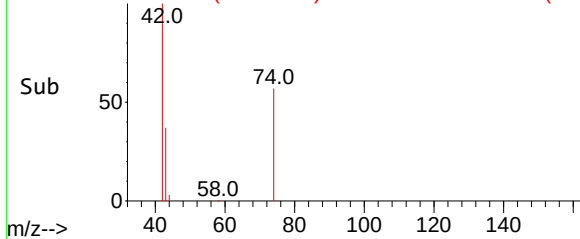
44 7.3 7.1 10.7



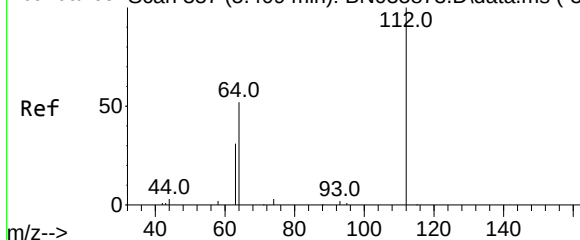
Abundance



Abundance Scan 61 (3.621 min): BN035912.D\data.ms (-42)



Abundance Scan 357 (5.409 min): BN035873.D\data.ms (-34



#4

2-Fluorophenol

Concen: 0.373 ng

RT: 5.405 min Scan# 308

Delta R.T. -0.004 min

Lab File: BN035912.D

Acq: 10 Jan 2025 21:20

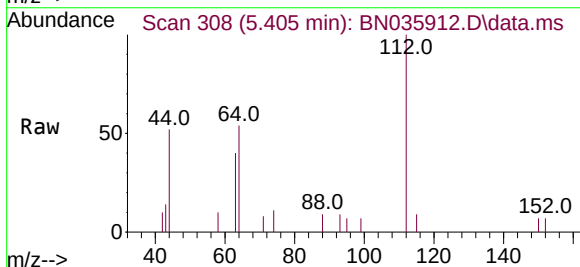
Tgt Ion: 112 Resp: 945

Ion Ratio Lower Upper

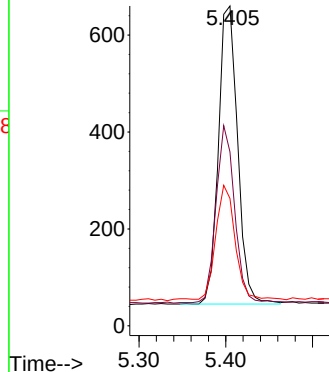
112 100

64 57.4 48.2 72.2

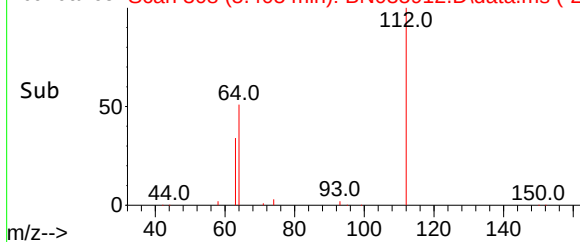
63 38.6 30.0 45.0

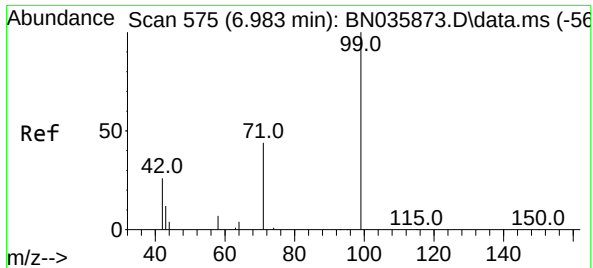


Abundance



Abundance Scan 308 (5.405 min): BN035912.D\data.ms (-28

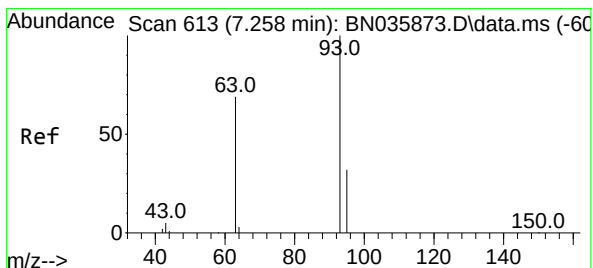
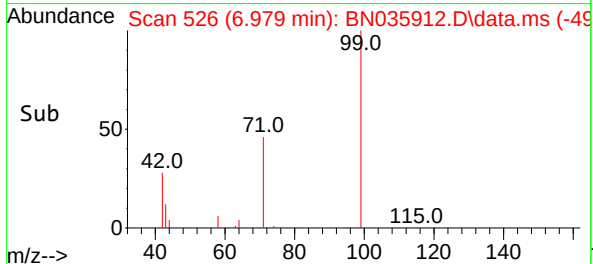
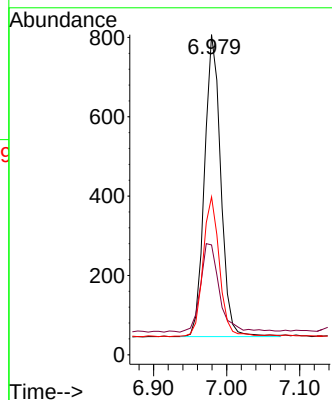
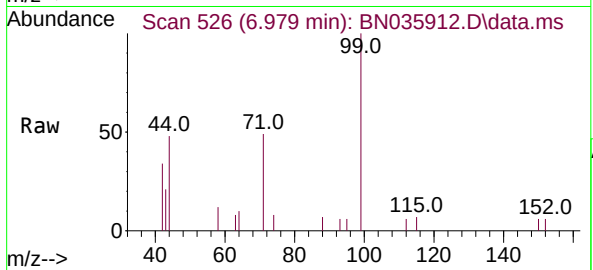




#5
Phenol-d6
Concen: 0.373 ng
RT: 6.979 min Scan# 51
Delta R.T. -0.004 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

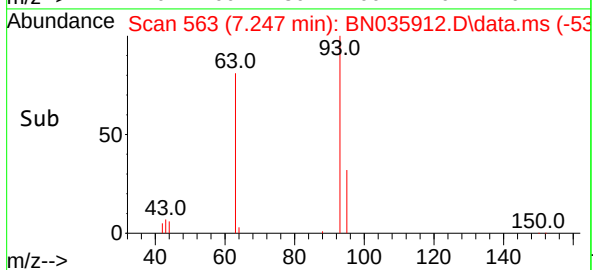
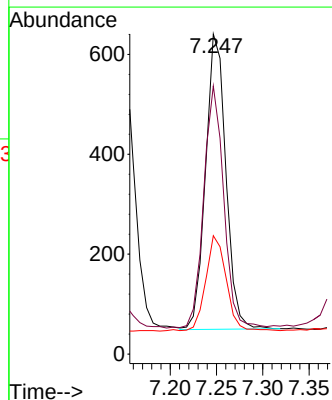
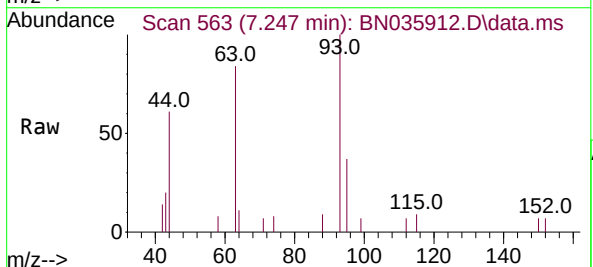
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

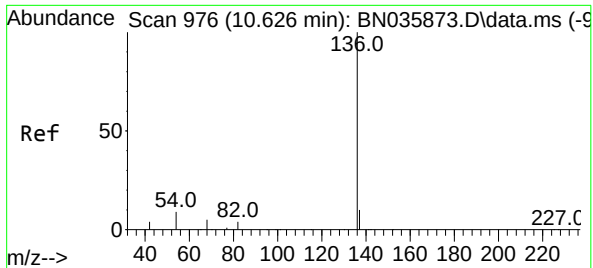
Tgt Ion: 99 Resp: 1174
Ion Ratio Lower Upper
99 100
42 34.8 23.5 35.3
71 46.7 35.5 53.3



#6
bis(2-Chloroethyl)ether
Concen: 0.376 ng
RT: 7.247 min Scan# 563
Delta R.T. -0.011 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Tgt Ion: 93 Resp: 901
Ion Ratio Lower Upper
93 100
63 81.1 62.0 93.0
95 33.1 25.5 38.3

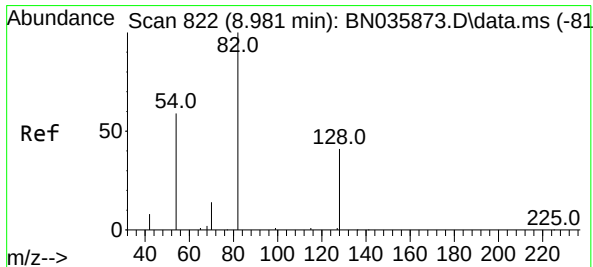
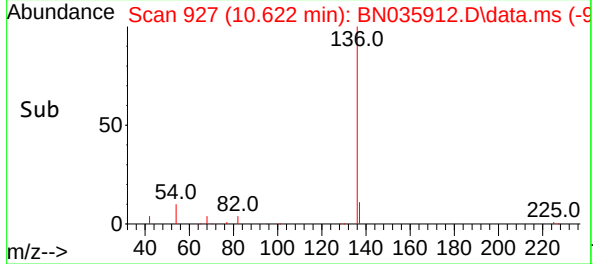
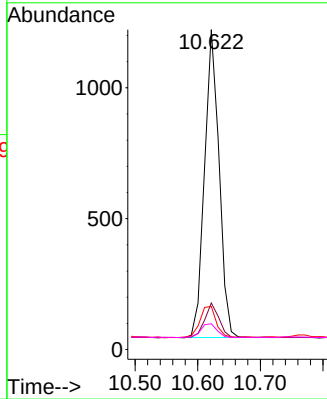
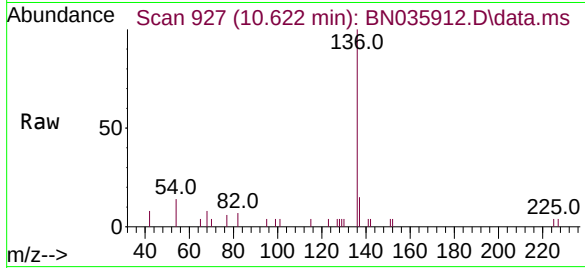




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.622 min Scan# 91
Delta R.T. -0.004 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

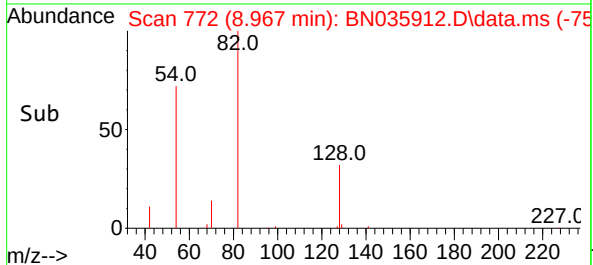
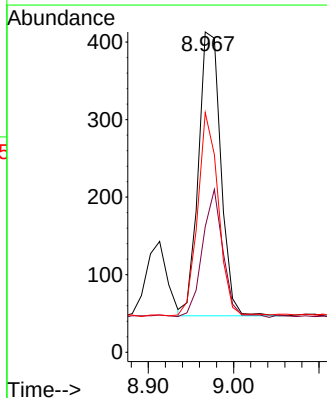
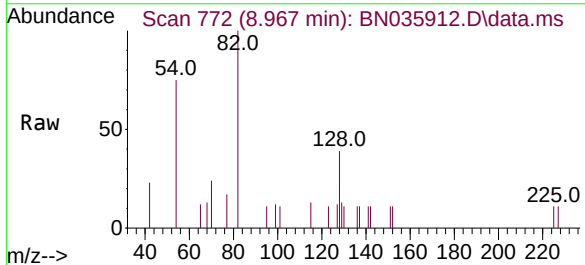
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

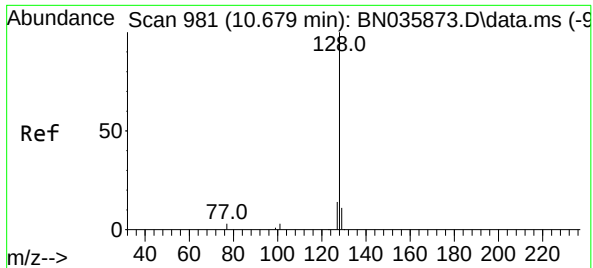
Tgt Ion:	136	Resp:	1896
Ion	Ratio	Lower	Upper
136	100		
137	14.6	10.6	15.8
54	13.5	9.8	14.6
68	8.1	6.6	10.0



#8
Nitrobenzene-d5
Concen: 0.444 ng
RT: 8.967 min Scan# 772
Delta R.T. -0.015 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Tgt Ion:	82	Resp:	666
Ion	Ratio	Lower	Upper
82	100		
128	39.2	36.9	55.3
54	74.8	50.4	75.6

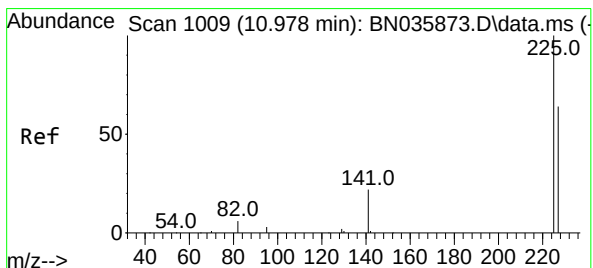
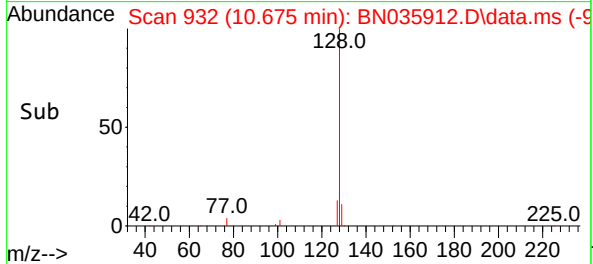
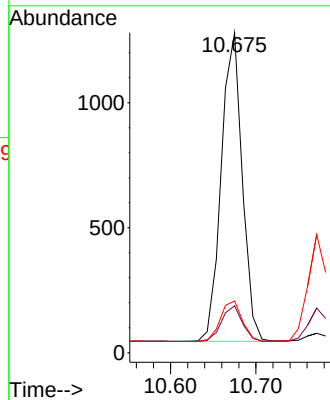
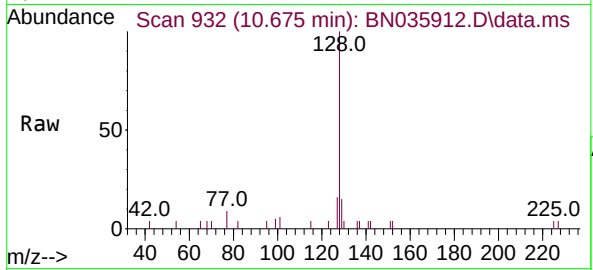




#9
Naphthalene
Concen: 0.395 ng
RT: 10.675 min Scan# 91
Delta R.T. -0.004 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

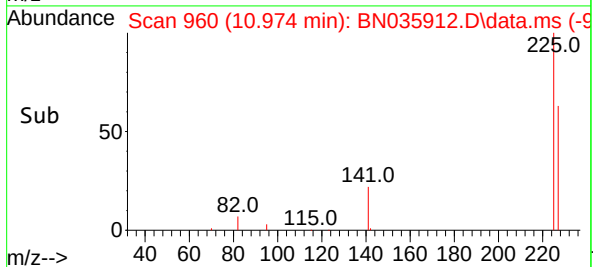
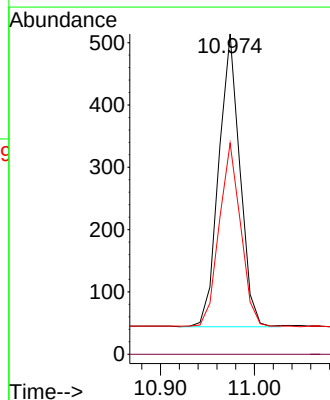
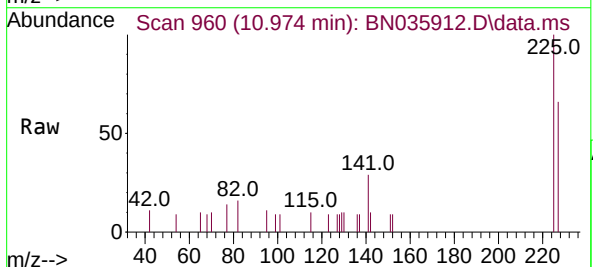
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

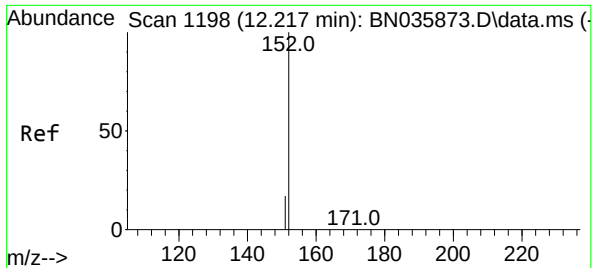
Tgt Ion:	128	Resp:	2101
Ion	Ratio	Lower	Upper
128	100		
129	14.7	10.6	16.0
127	16.2	12.8	19.2



#10
Hexachlorobutadiene
Concen: 0.425 ng
RT: 10.974 min Scan# 960
Delta R.T. -0.004 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Tgt Ion:	225	Resp:	735
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.9	51.5	77.3

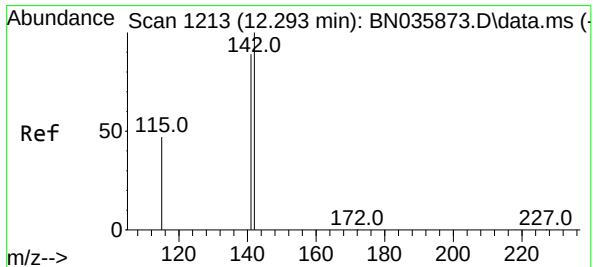
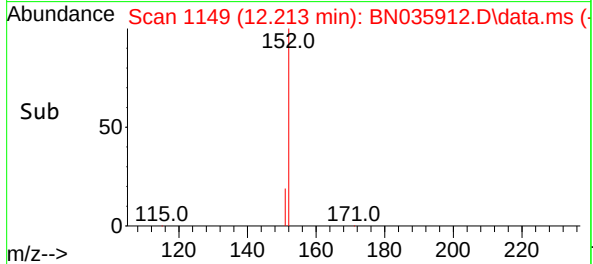
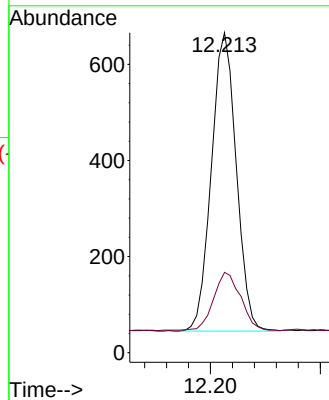
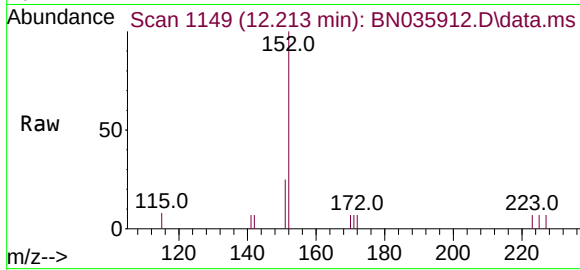




#11
2-Methylnaphthalene-d10
Concen: 0.385 ng
RT: 12.213 min Scan# 1163
Delta R.T. -0.004 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

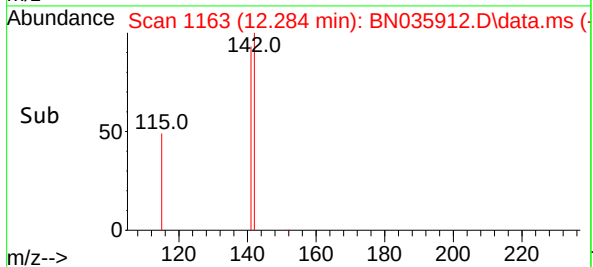
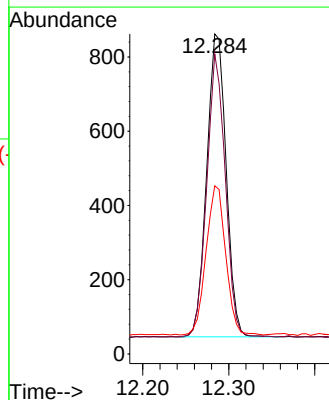
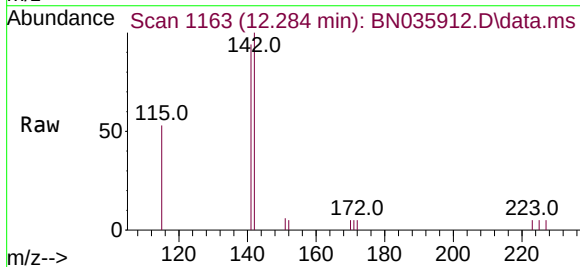
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

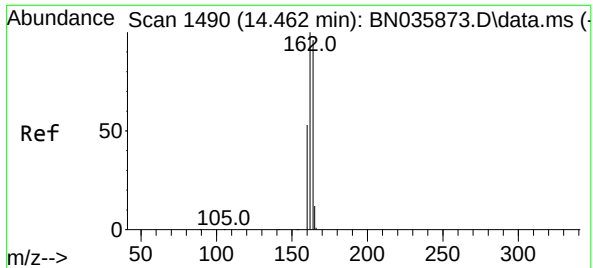
Tgt Ion:152 Resp: 977
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.389 ng
RT: 12.284 min Scan# 1163
Delta R.T. -0.009 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Tgt Ion:142 Resp: 1282
Ion Ratio Lower Upper
142 100
141 93.7 71.9 107.9
115 52.6 39.6 59.4

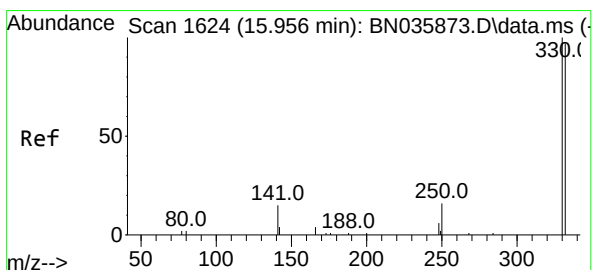
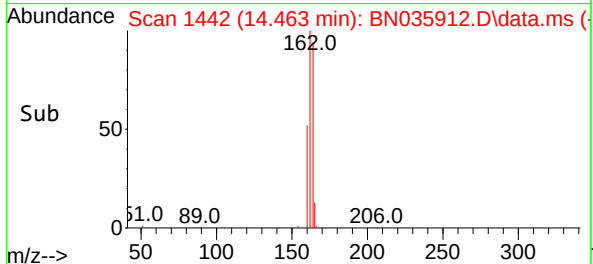
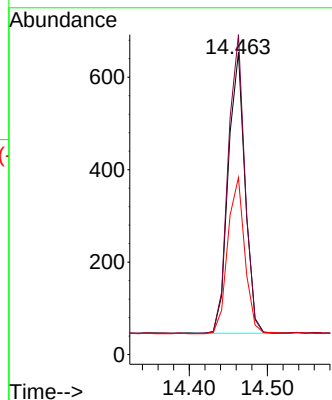
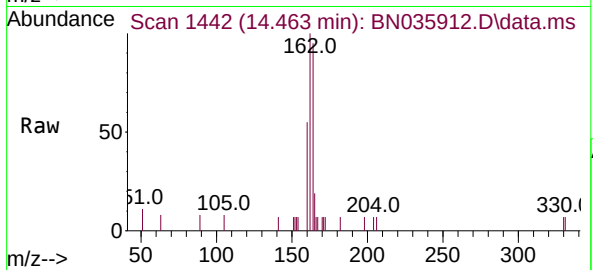




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.463 min Scan# 14
Delta R.T. 0.001 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

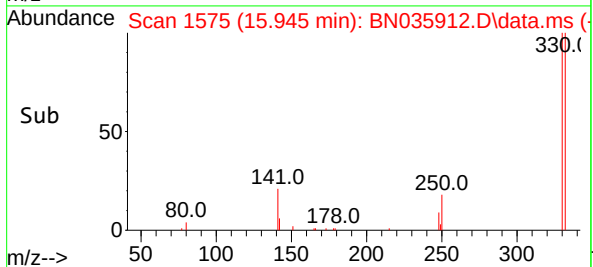
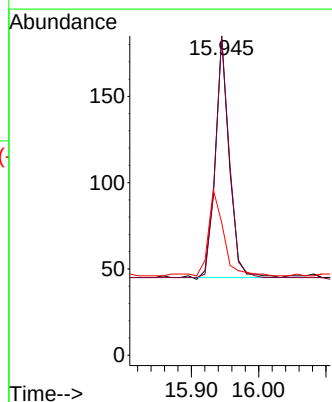
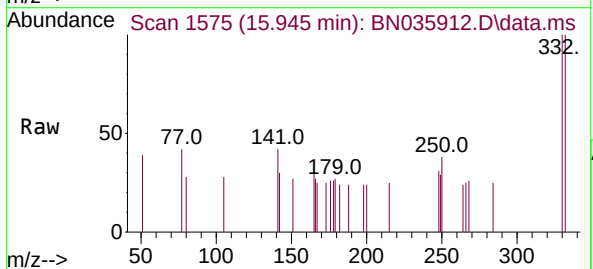
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

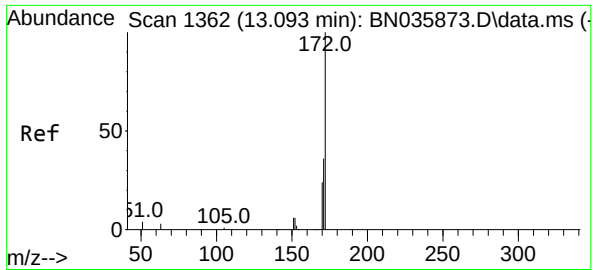
Tgt Ion:164 Resp: 908
Ion Ratio Lower Upper
164 100
162 105.8 83.1 124.7
160 58.6 46.0 69.0



#14
2,4,6-Tribromophenol
Concen: 0.459 ng
RT: 15.945 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Tgt Ion:330 Resp: 200
Ion Ratio Lower Upper
330 100
332 99.0 77.2 115.8
141 42.5 31.6 47.4

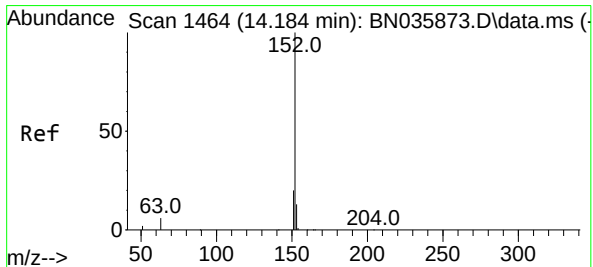
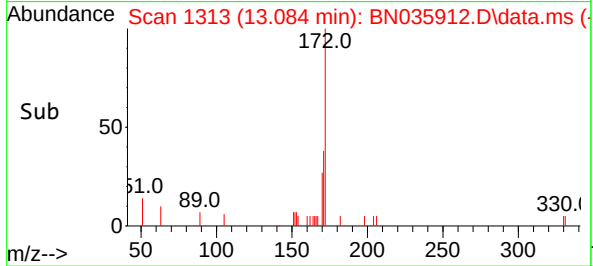
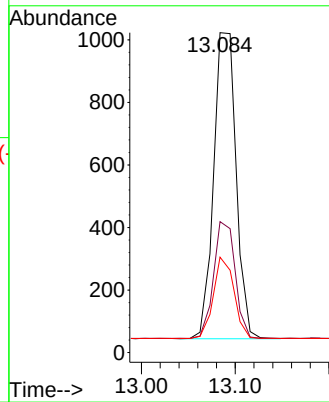
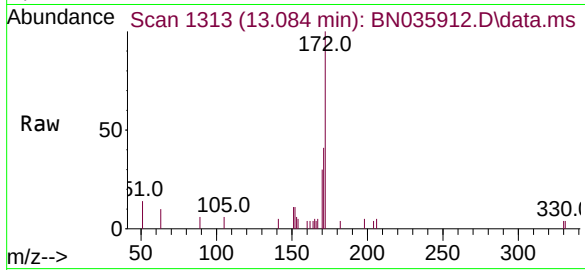




#15
2-Fluorobiphenyl
Concen: 0.410 ng
RT: 13.084 min Scan# 1415
Delta R.T. -0.010 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

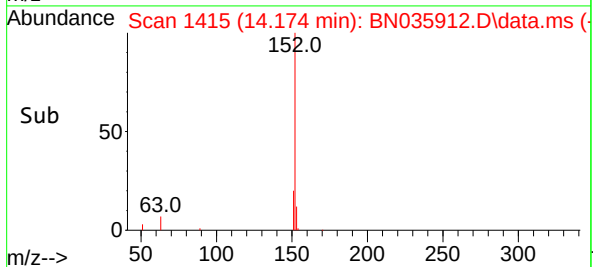
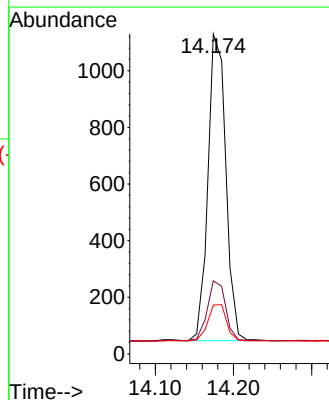
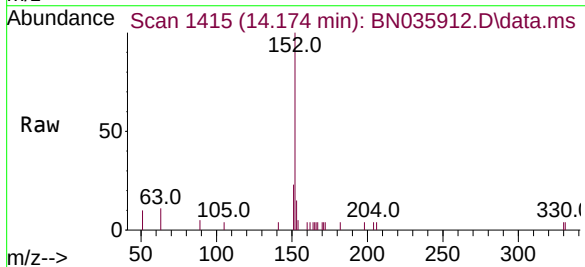
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

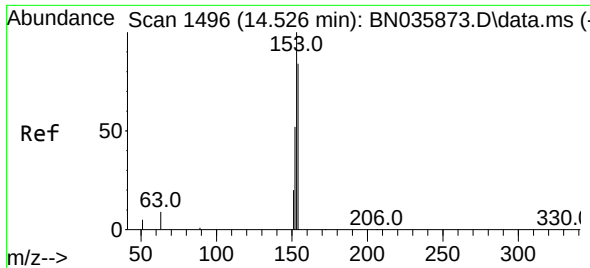
Tgt Ion:	172	Resp:	1635
Ion	Ratio	Lower	Upper
172	100		
171	41.0	30.5	45.7
170	29.8	20.8	31.2



#16
Acenaphthylene
Concen: 0.402 ng
RT: 14.174 min Scan# 1415
Delta R.T. -0.010 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Tgt Ion:	152	Resp:	1721
Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.3	24.5
153	13.0	10.6	15.8

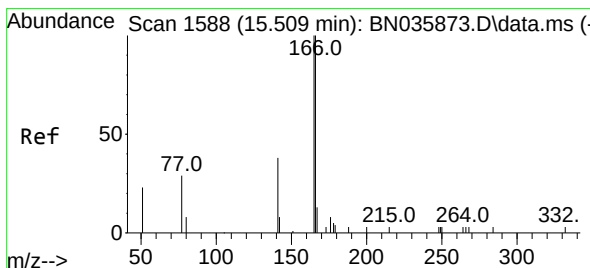
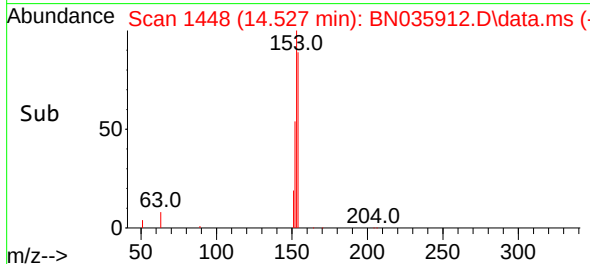
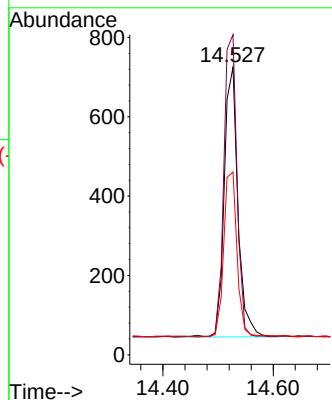
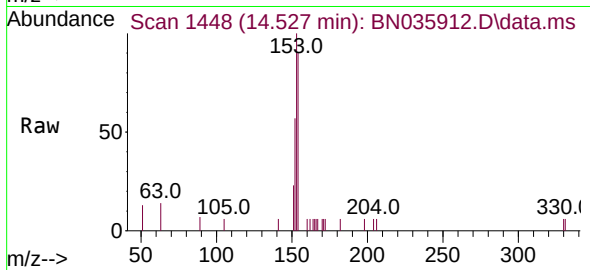




#17
Acenaphthene
Concen: 0.418 ng
RT: 14.527 min Scan# 1496
Delta R.T. 0.001 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

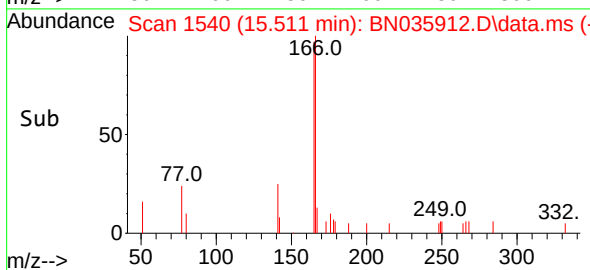
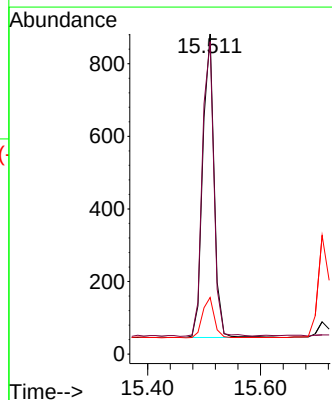
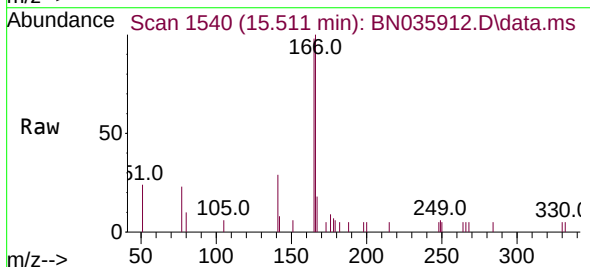
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

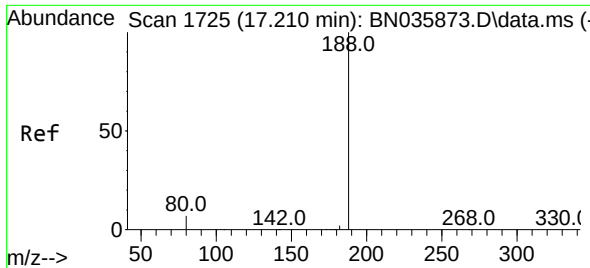
Tgt Ion	Ratio	Lower	Upper
154	100		
153	107.0	90.5	135.7
152	58.8	48.6	73.0



#18
Fluorene
Concen: 0.394 ng
RT: 15.511 min Scan# 1540
Delta R.T. 0.001 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.8	80.6	120.8
167	14.3	11.4	17.0

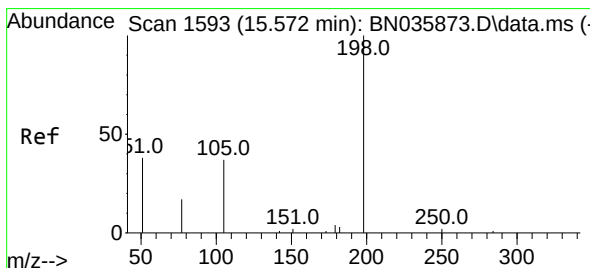
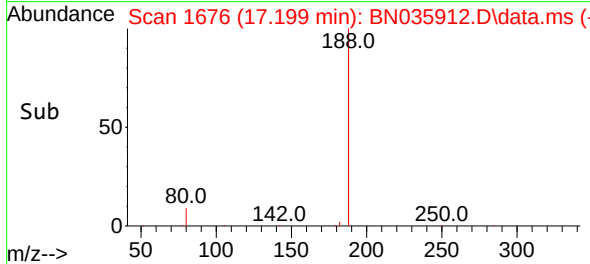
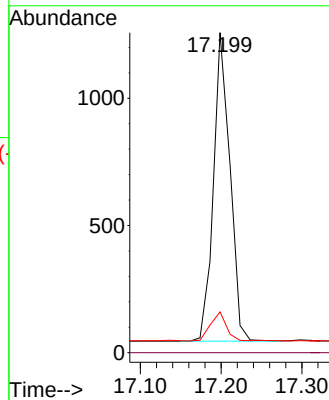
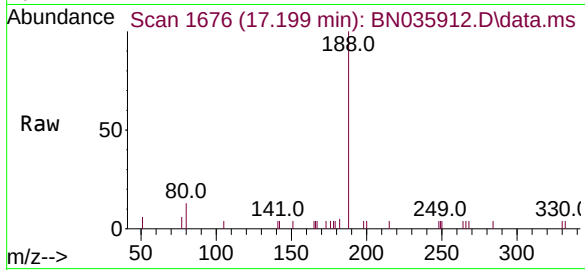




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.199 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

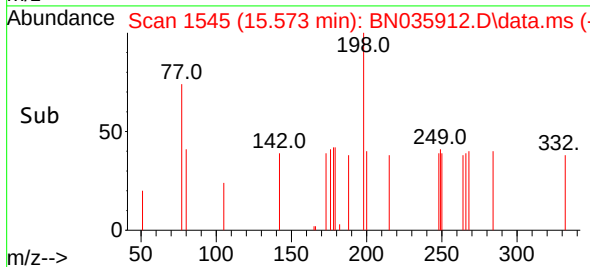
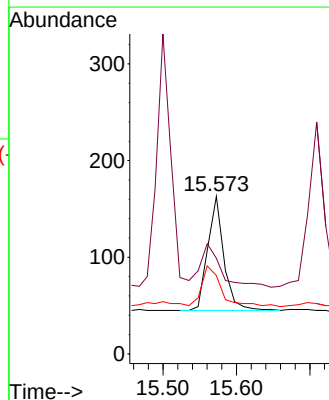
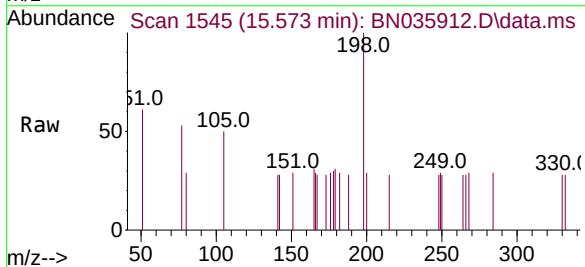
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

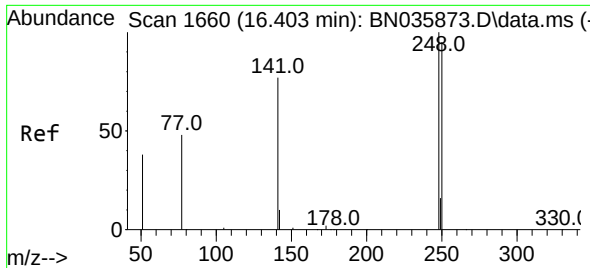
Tgt Ion	188	Resp	1715
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.7	7.3	10.9



#20
4,6-Dinitro-2-methylphenol
Concen: 0.604 ng
RT: 15.573 min Scan# 1545
Delta R.T. 0.001 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Tgt Ion	198	Resp	180
Ion	Ratio	Lower	Upper
198	100		
51	60.7	64.3	96.5
105	49.7	50.0	75.0

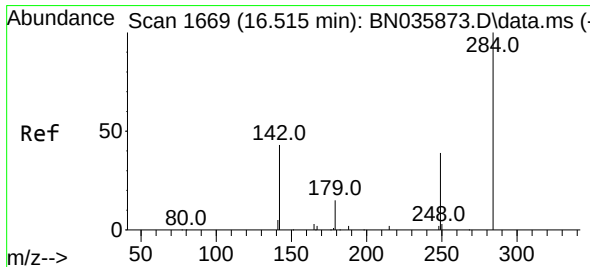
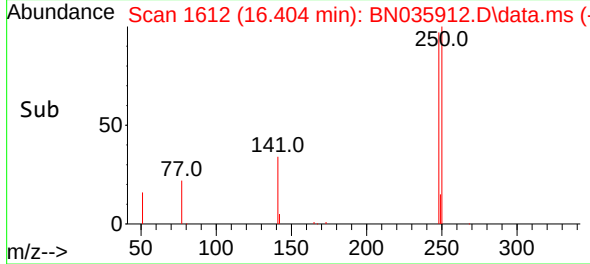
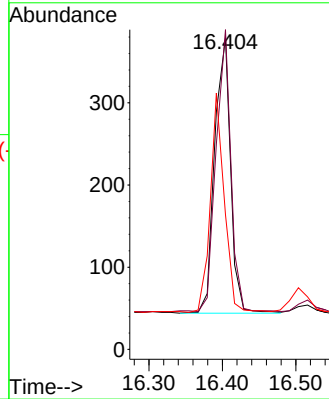
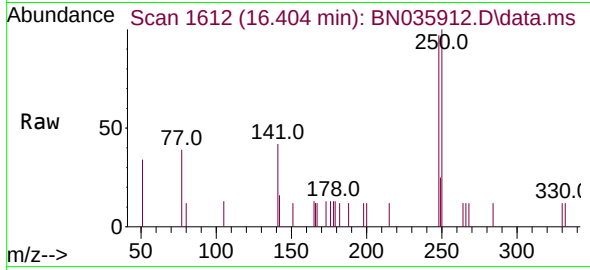




#21
4-Bromophenyl-phenylether
Concen: 0.429 ng
RT: 16.404 min Scan# 1621
Delta R.T. 0.001 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

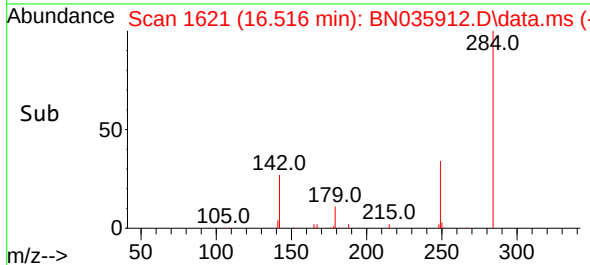
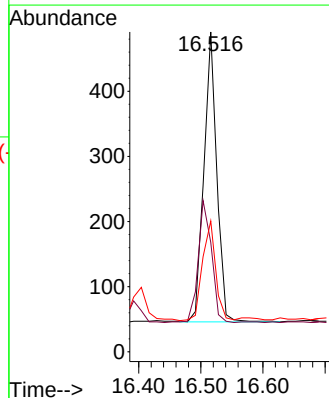
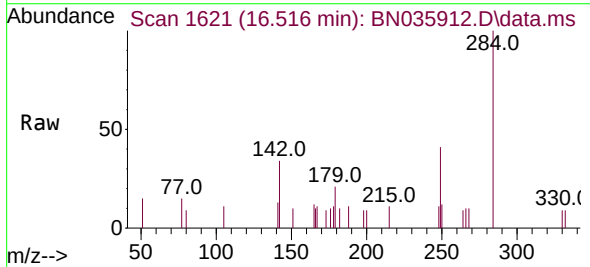
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

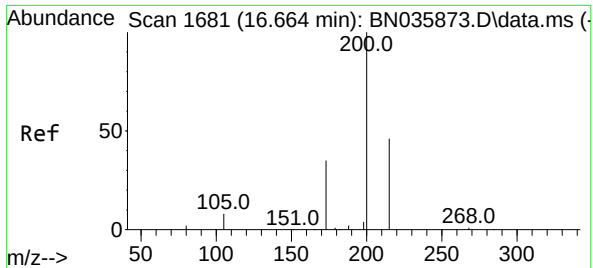
Tgt Ion:248 Resp: 505
Ion Ratio Lower Upper
248 100
250 102.6 76.8 115.2
141 43.3 63.6 95.4#



#22
Hexachlorobenzene
Concen: 0.401 ng
RT: 16.516 min Scan# 1621
Delta R.T. 0.001 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Tgt Ion:284 Resp: 643
Ion Ratio Lower Upper
284 100
142 43.4 31.4 47.0
249 35.1 27.8 41.8

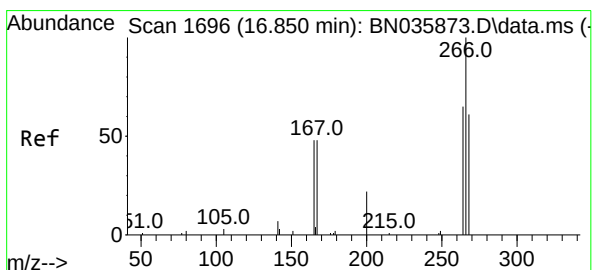
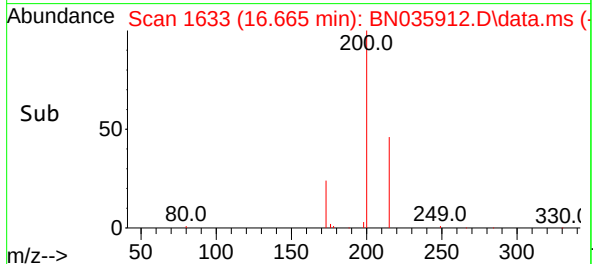
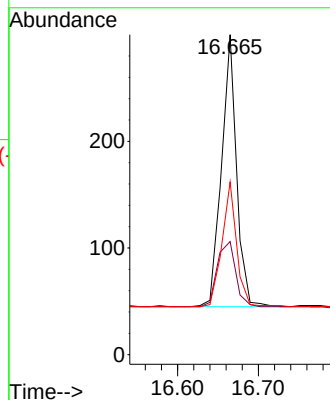
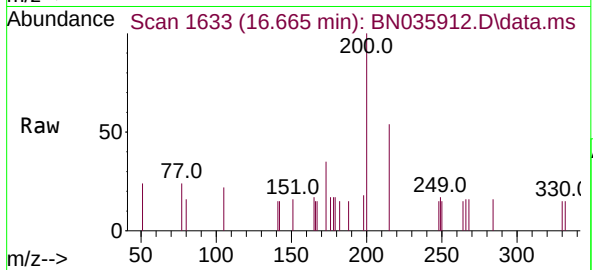




#23
Atrazine
Concen: 0.418 ng
RT: 16.665 min Scan# 1633
Delta R.T. 0.001 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

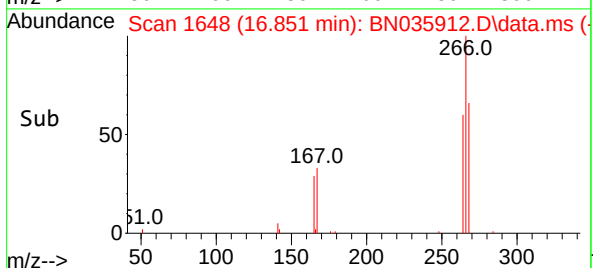
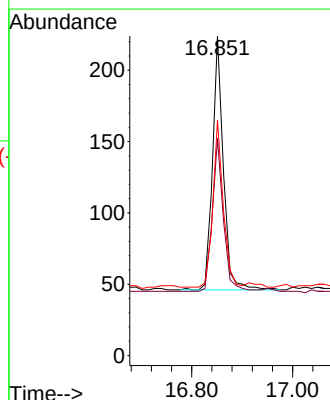
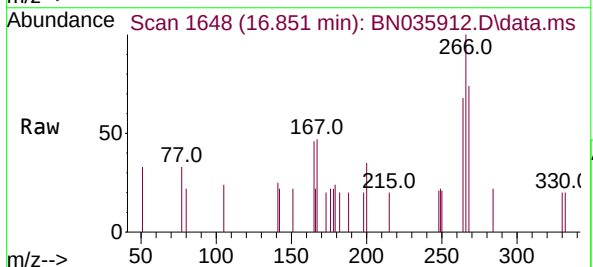
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

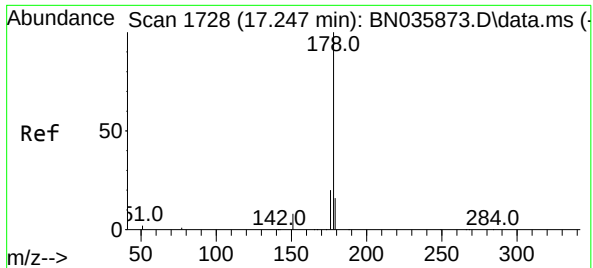
Tgt Ion:200 Resp: 330
Ion Ratio Lower Upper
200 100
173 35.3 35.4 53.0#
215 54.0 42.4 63.6



#24
Pentachlorophenol
Concen: 0.470 ng
RT: 16.851 min Scan# 1648
Delta R.T. 0.001 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Tgt Ion:266 Resp: 267
Ion Ratio Lower Upper
266 100
264 60.7 49.9 74.9
268 64.0 50.2 75.2

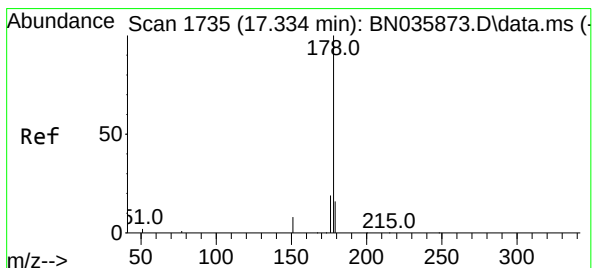
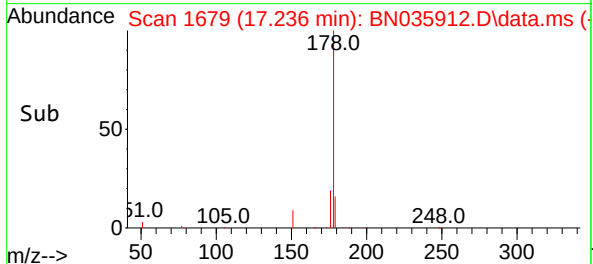
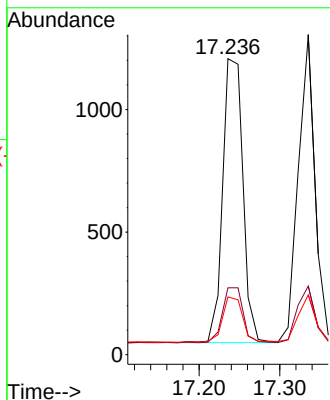
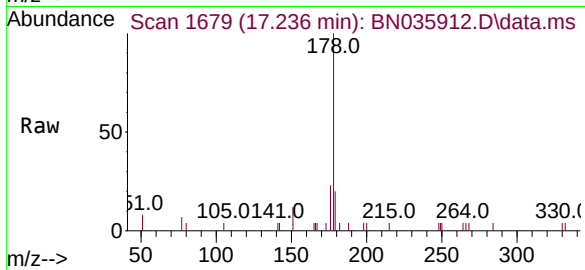




#25
Phenanthrene
Concen: 0.403 ng
RT: 17.236 min Scan# 1687
Delta R.T. -0.011 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

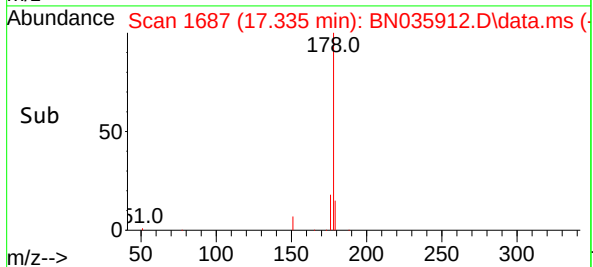
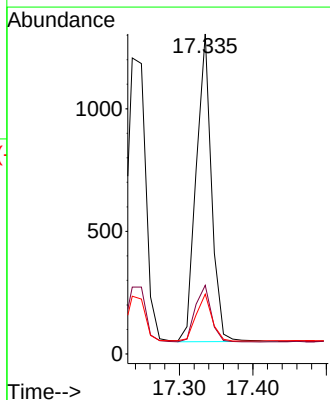
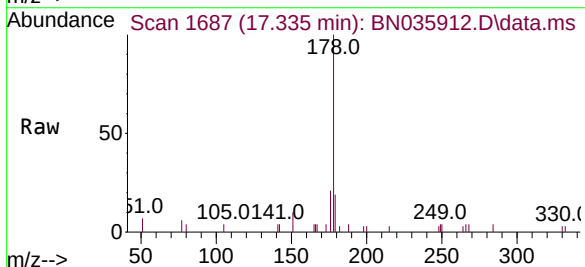
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

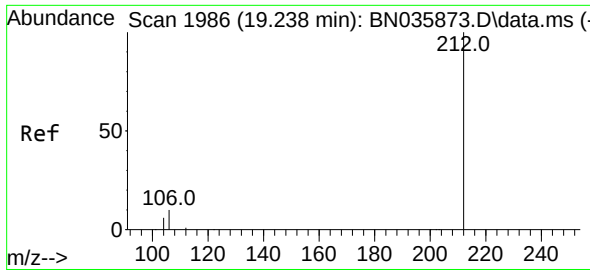
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.9	23.9
179	15.8	12.9	19.3



#26
Anthracene
Concen: 0.397 ng
RT: 17.335 min Scan# 1687
Delta R.T. 0.001 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.0	22.6
179	15.6	13.0	19.6





#27

Fluoranthene-d10

Concen: 0.387 ng

RT: 19.230 min Scan# 1943

Delta R.T. -0.008 min

Lab File: BN035912.D

Acq: 10 Jan 2025 21:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

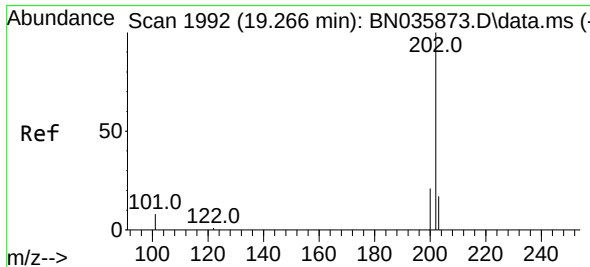
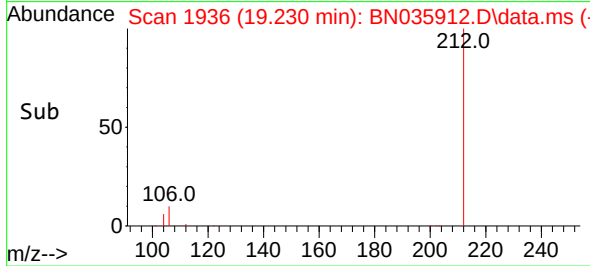
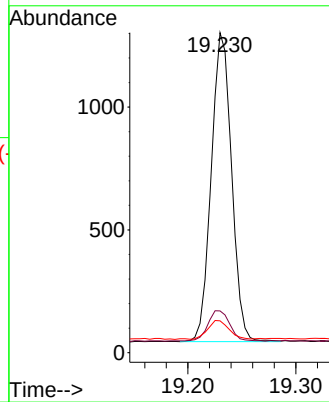
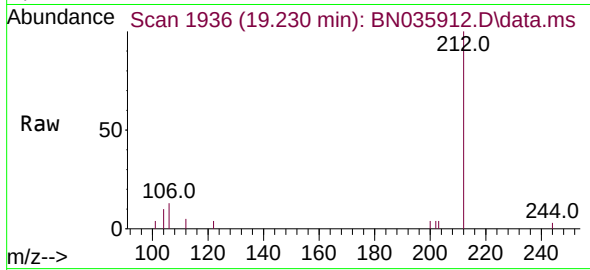
Tgt Ion:212 Resp: 1648

Ion Ratio Lower Upper

212 100

106 10.7 9.0 13.6

104 6.6 5.4 8.2



#28

Fluoranthene

Concen: 0.382 ng

RT: 19.262 min Scan# 1943

Delta R.T. -0.004 min

Lab File: BN035912.D

Acq: 10 Jan 2025 21:20

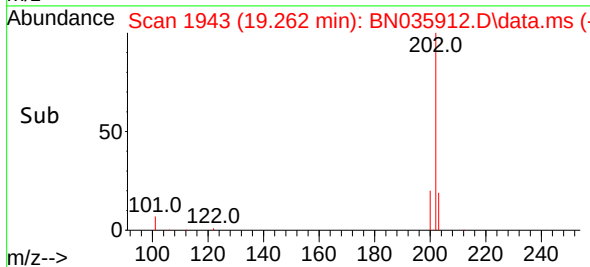
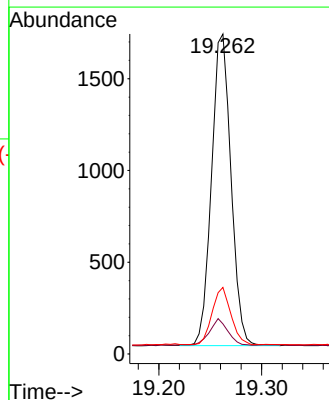
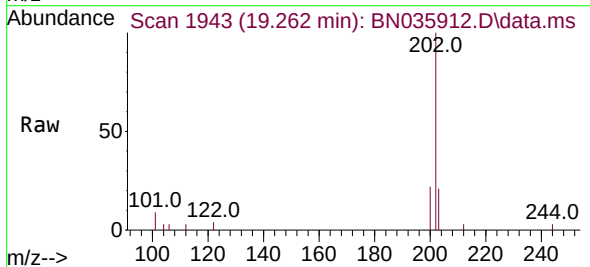
Tgt Ion:202 Resp: 2230

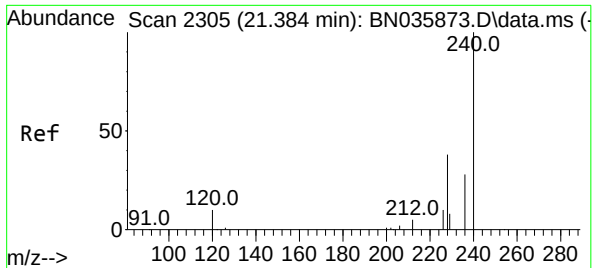
Ion Ratio Lower Upper

202 100

101 8.3 7.2 10.8

203 17.7 13.9 20.9

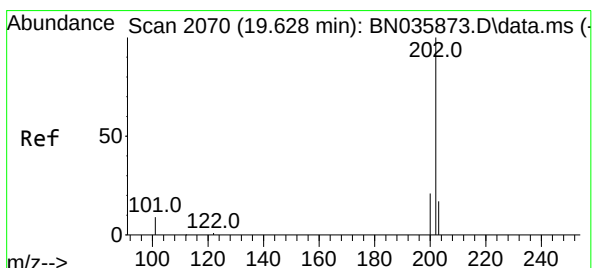
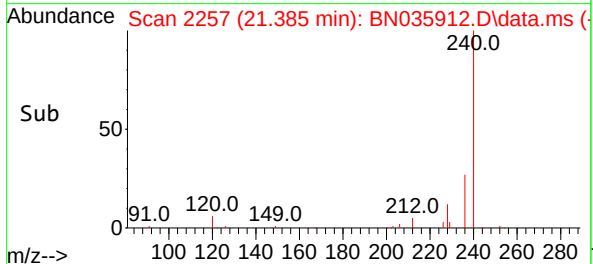
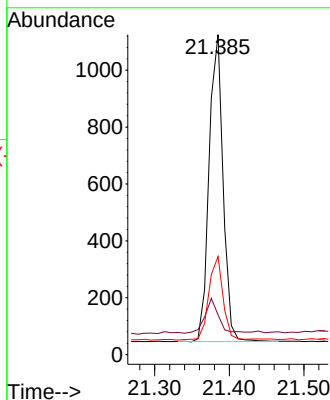
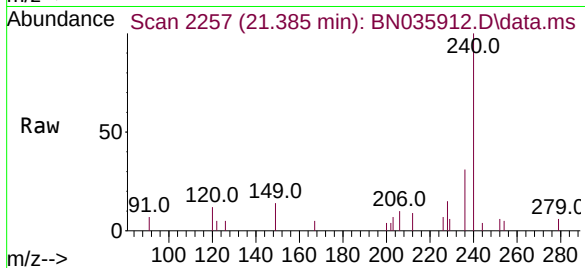




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.385 min Scan# 21
Delta R.T. 0.001 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

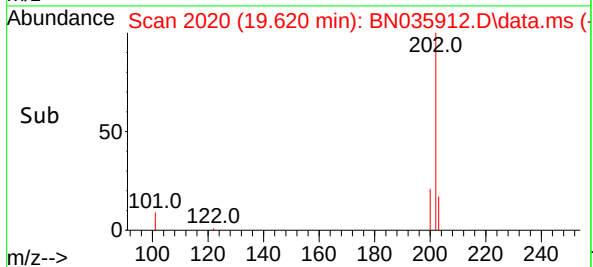
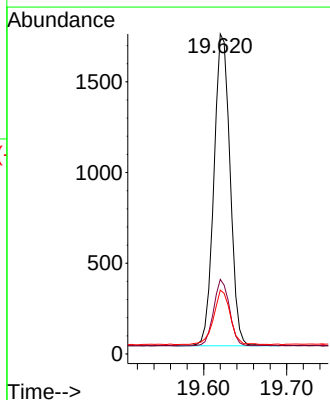
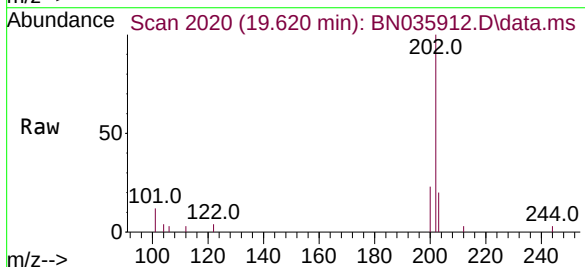
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

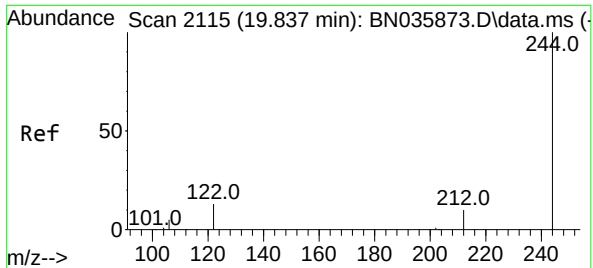
Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.4	11.1	16.7
236	30.7	24.6	36.8



#30
Pyrene
Concen: 0.406 ng
RT: 19.620 min Scan# 2020
Delta R.T. -0.008 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.6
203	17.8	14.6	22.0

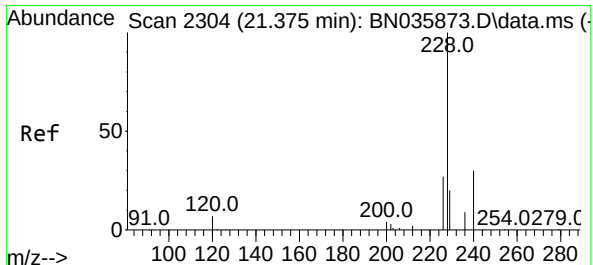
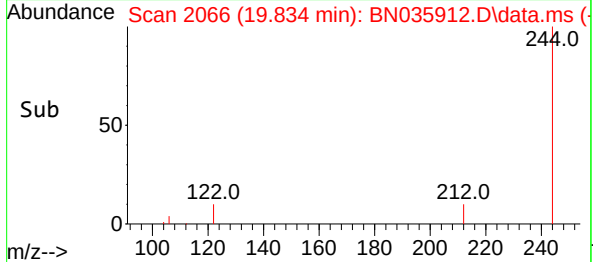
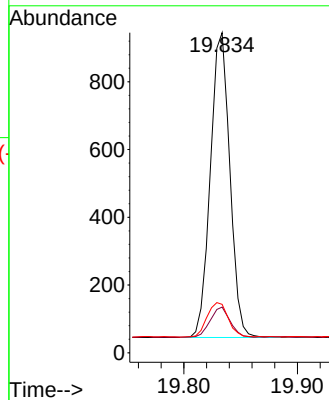
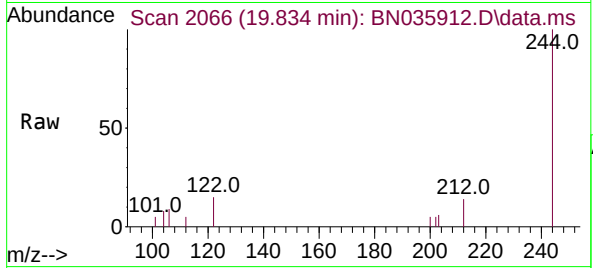




#31
Terphenyl-d14
Concen: 0.384 ng
RT: 19.834 min Scan# 20
Delta R.T. -0.004 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

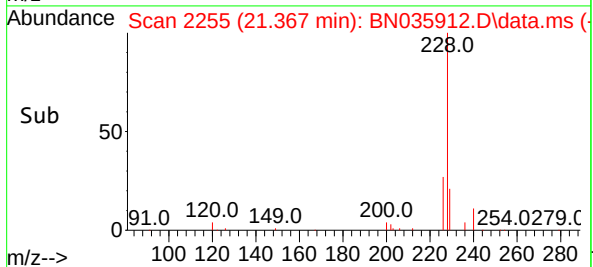
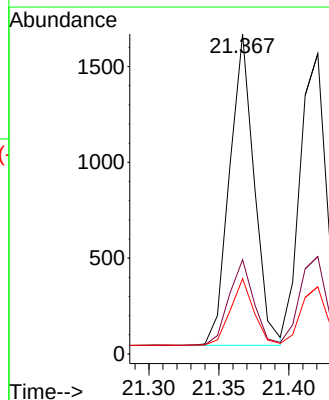
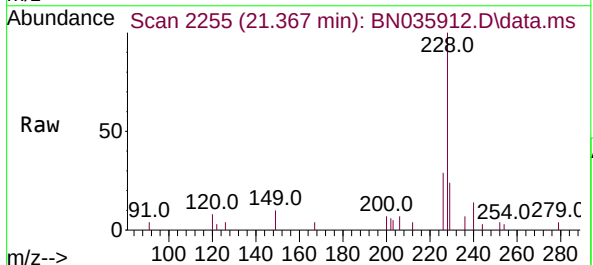
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

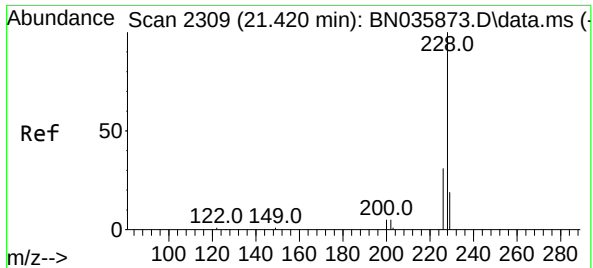
Tgt Ion:244	Resp:	1072
Ion Ratio	Lower	Upper
244	100	
212	14.3	10.1 15.1
122	15.1	12.2 18.4



#32
Benzo(a)anthracene
Concen: 0.403 ng
RT: 21.367 min Scan# 2255
Delta R.T. -0.008 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Tgt Ion:228	Resp:	1990
Ion Ratio	Lower	Upper
228	100	
226	29.5	22.7 34.1
229	23.5	17.1 25.7

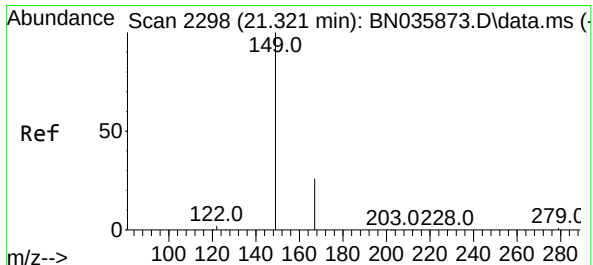
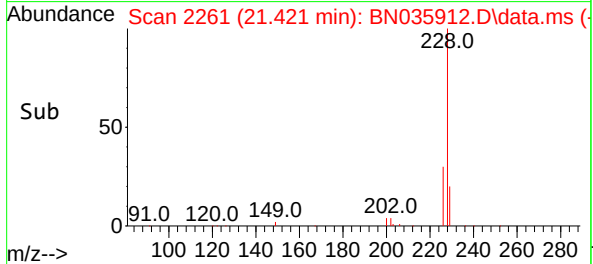
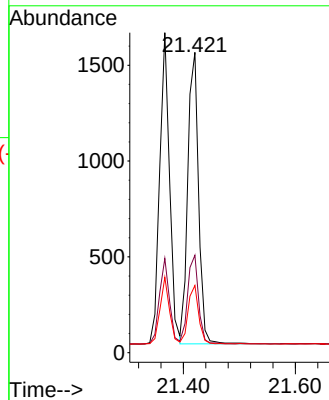
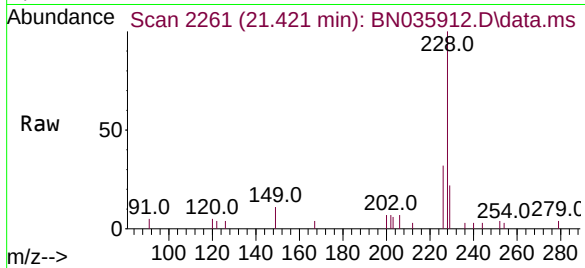




#33
Chrysene
Concen: 0.393 ng
RT: 21.421 min Scan# 2149
Delta R.T. 0.001 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

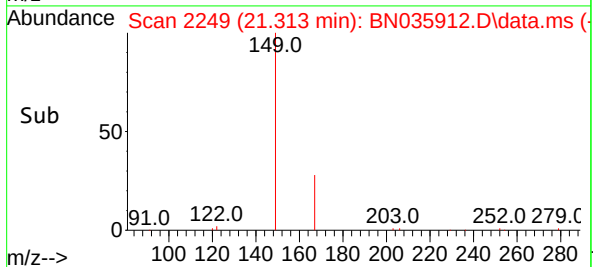
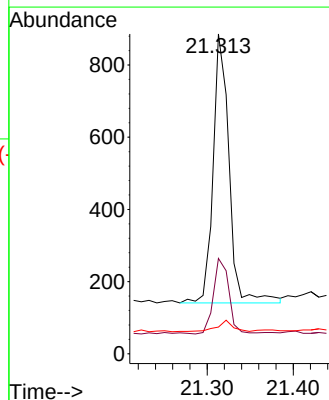
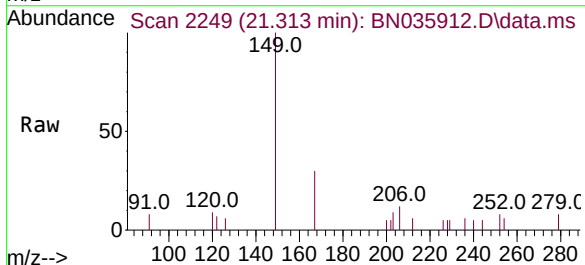
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

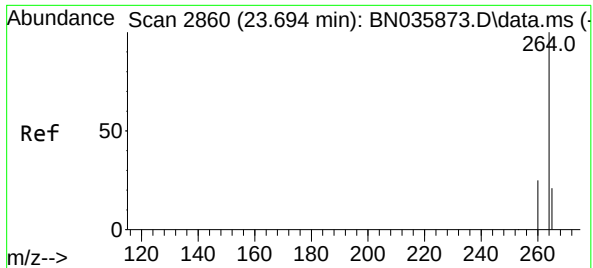
Tgt Ion:	228	Resp:	2033
Ion	Ratio	Lower	Upper
228	100		
226	32.5	25.2	37.8
229	22.4	16.0	24.0



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.477 ng
RT: 21.313 min Scan# 2249
Delta R.T. -0.008 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Tgt Ion:	149	Resp:	959
Ion	Ratio	Lower	Upper
149	100		
167	27.1	21.4	32.0
279	3.9	3.0	4.6

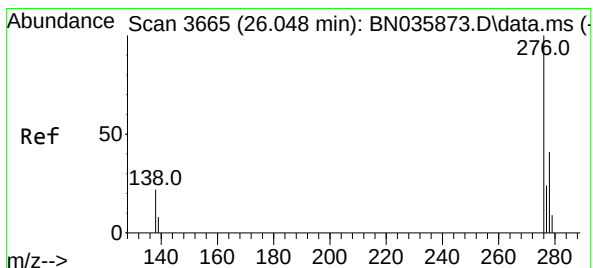
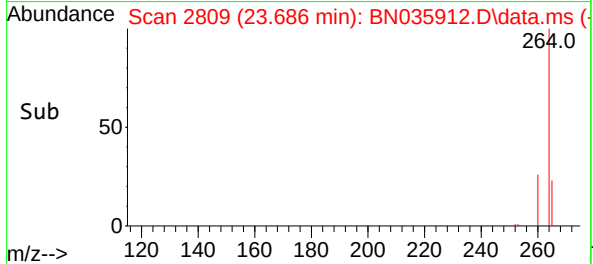
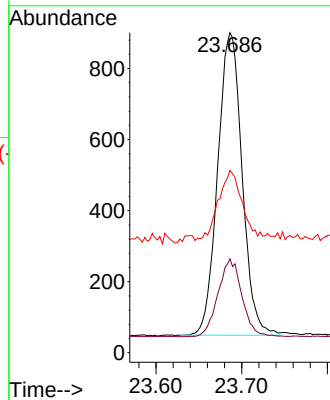
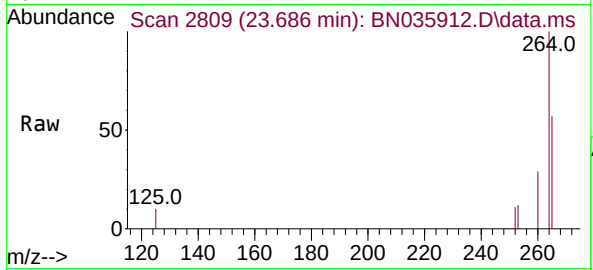




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.686 min Scan# 21
Delta R.T. -0.008 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

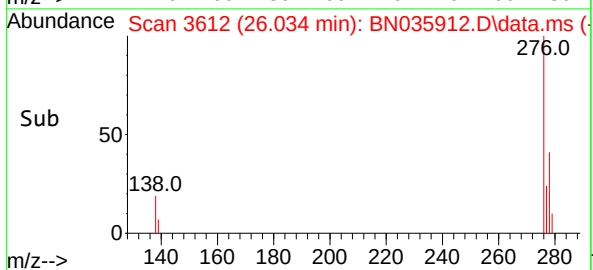
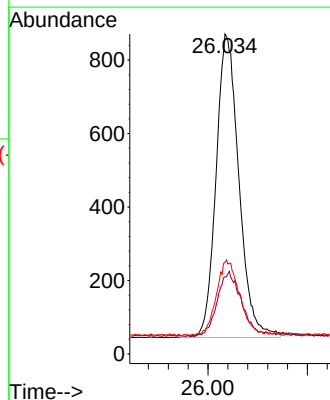
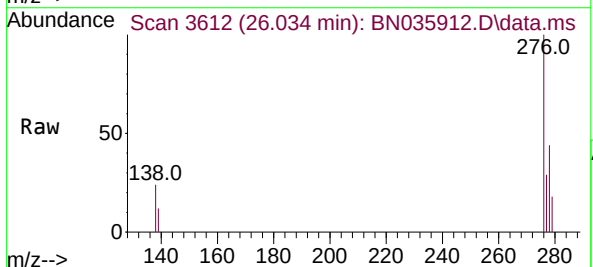
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

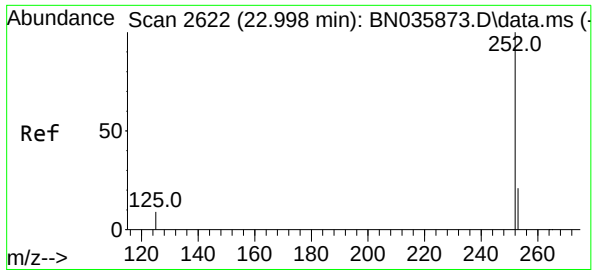
Tgt Ion:264 Resp: 1689
Ion Ratio Lower Upper
264 100
260 29.3 21.7 32.5
265 56.9 33.9 50.9#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.395 ng
RT: 26.034 min Scan# 3612
Delta R.T. -0.014 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Tgt Ion:276 Resp: 2628
Ion Ratio Lower Upper
276 100
138 21.8 18.9 28.3
277 25.3 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.373 ng

RT: 22.991 min Scan# 21

Delta R.T. -0.008 min

Lab File: BN035912.D

Acq: 10 Jan 2025 21:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

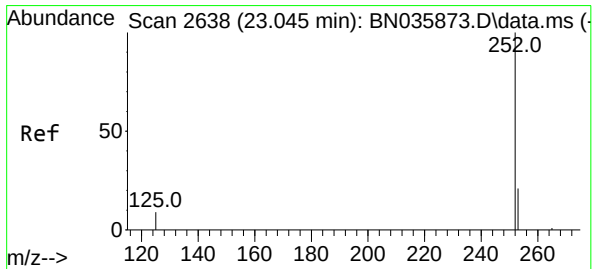
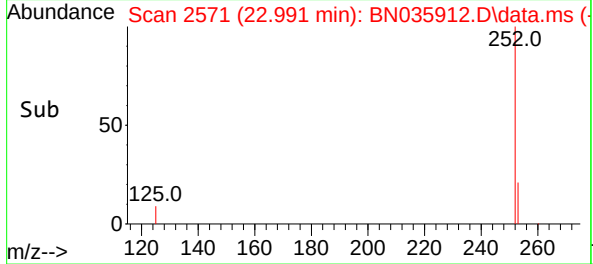
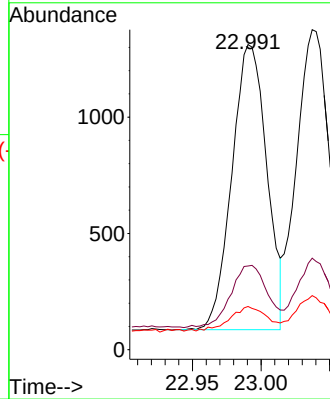
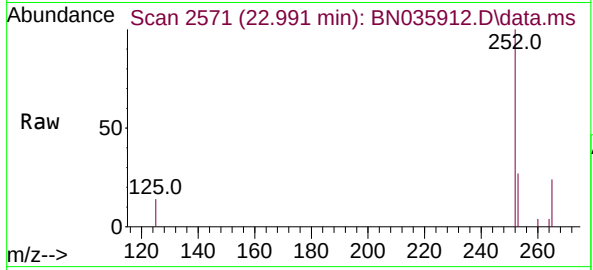
Tgt Ion:252 Resp: 2167

Ion Ratio Lower Upper

252 100

253 27.4 20.1 30.1

125 14.2 9.9 14.9



#38

Benzo(k)fluoranthene

Concen: 0.389 ng m

RT: 23.037 min Scan# 2587

Delta R.T. -0.008 min

Lab File: BN035912.D

Acq: 10 Jan 2025 21:20

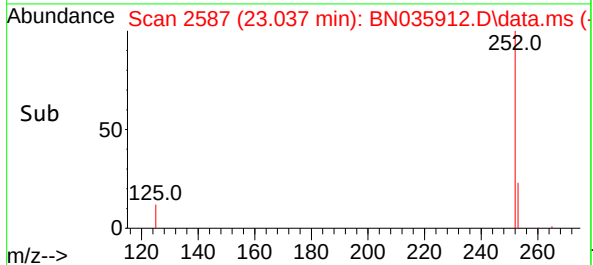
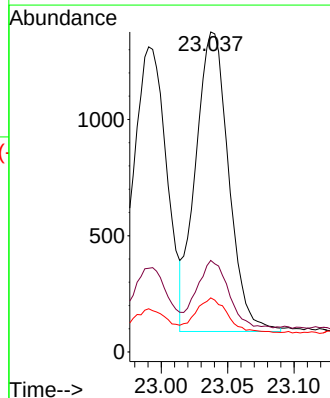
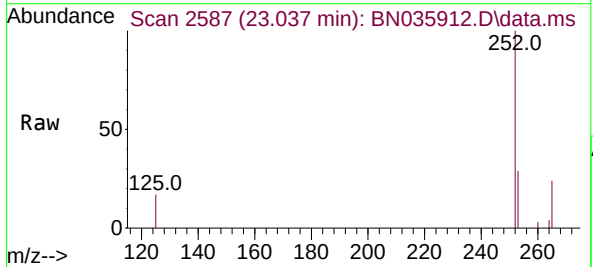
Tgt Ion:252 Resp: 2235

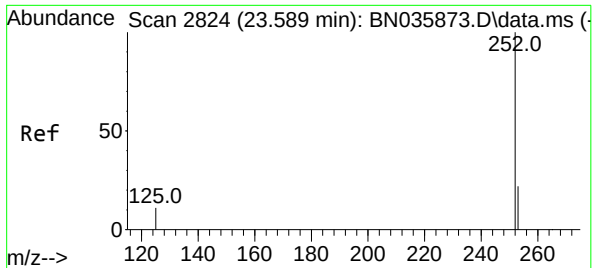
Ion Ratio Lower Upper

252 100

253 28.6 20.5 30.7

125 16.9 10.6 16.0#





#39

Benzo(a)pyrene

Concen: 0.384 ng

RT: 23.584 min Scan# 21

Delta R.T. -0.005 min

Lab File: BN035912.D

Acq: 10 Jan 2025 21:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

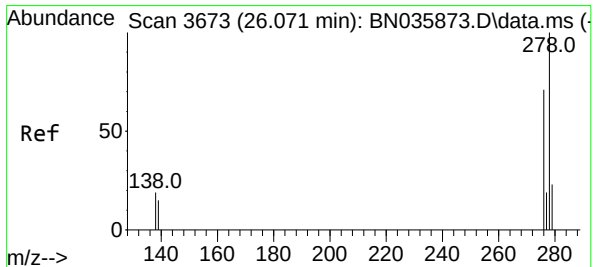
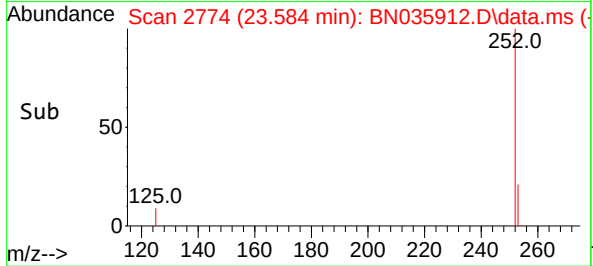
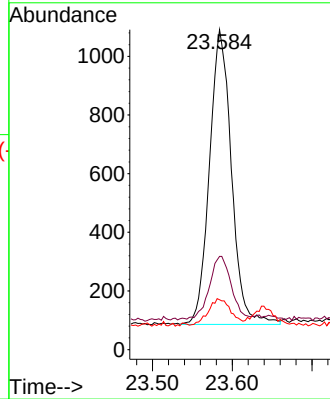
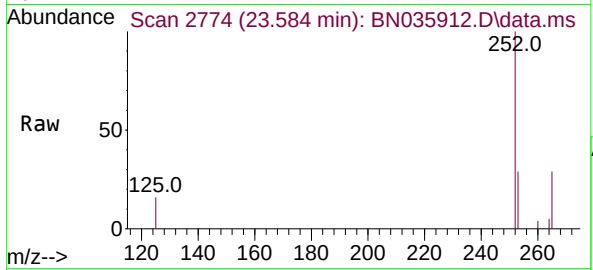
Tgt Ion:252 Resp: 1927

Ion Ratio Lower Upper

252 100

253 29.1 21.5 32.3

125 15.6 12.6 19.0



#40

Dibenzo(a,h)anthracene

Concen: 0.395 ng

RT: 26.057 min Scan# 3620

Delta R.T. -0.014 min

Lab File: BN035912.D

Acq: 10 Jan 2025 21:20

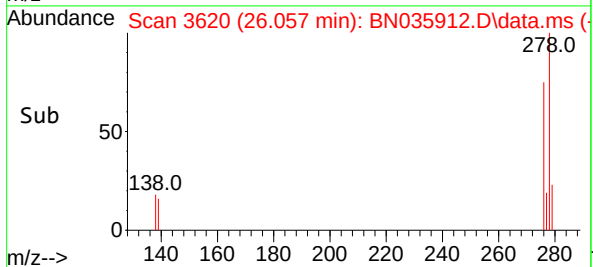
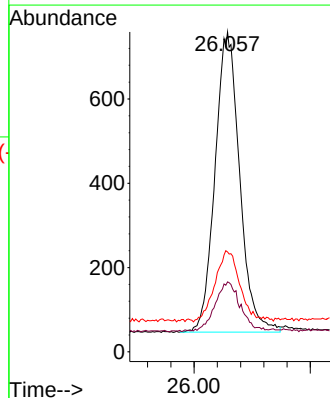
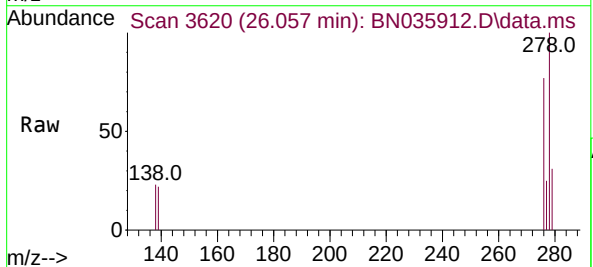
Tgt Ion:278 Resp: 2091

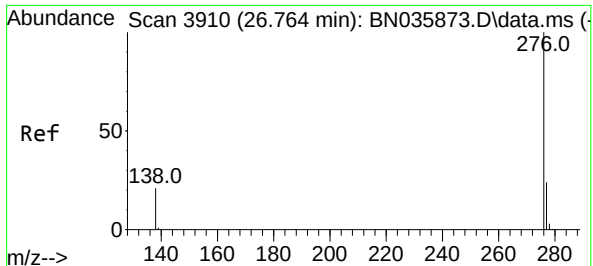
Ion Ratio Lower Upper

278 100

139 21.9 15.9 23.9

279 31.2 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 0.388 ng

RT: 26.747 min Scan# 3856

Delta R.T. -0.016 min

Lab File: BN035912.D

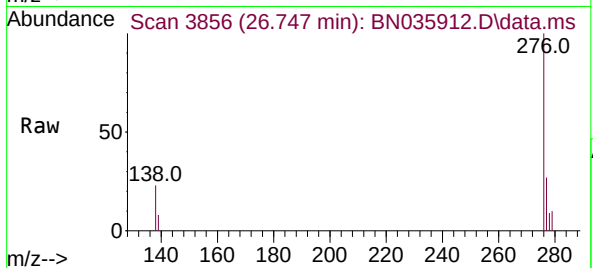
Acq: 10 Jan 2025 21:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



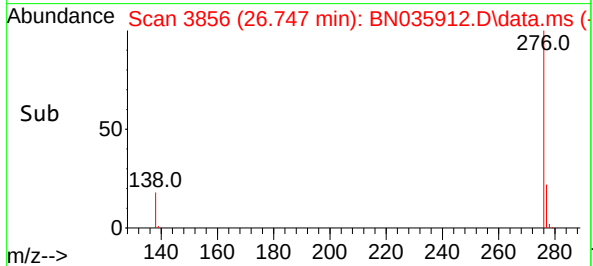
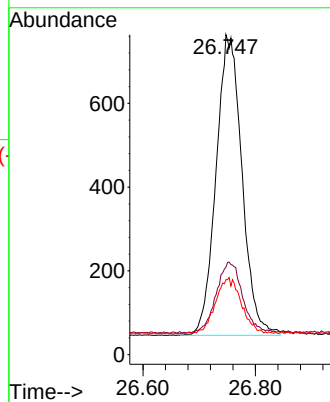
Tgt Ion:276 Resp: 2297

Ion Ratio Lower Upper

276 100

277 27.4 22.8 34.2

138 23.4 20.1 30.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011025\
 Data File : BN035912.D
 Acq On : 10 Jan 2025 21:20
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jan 10 22:14:48 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	82	0.00
2	1,4-Dioxane	0.397	0.410	-3.3	90	0.00
3	n-Nitrosodimethylamine	0.693	0.761	-9.8	92	-0.01
4 S	2-Fluorophenol	0.981	0.915	6.7	79	0.00
5 S	Phenol-d6	1.219	1.136	6.8	79	0.00
6	bis(2-Chloroethyl)ether	0.929	0.872	6.1	76	-0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	73	0.00
8 S	Nitrobenzene-d5	0.317	0.351	-10.7	87	-0.01
9	Naphthalene	1.123	1.108	1.3	75	0.00
10	Hexachlorobutadiene	0.365	0.388	-6.3	81	0.00
11 SURR	2-Methylnaphthalene-d10	0.536	0.515	3.9	72	0.00
12	2-Methylnaphthalene	0.695	0.676	2.7	73	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	67	0.00
14 S	2,4,6-Tribromophenol	0.192	0.220	-14.6	78	-0.01
15 S	2-Fluorobiphenyl	1.755	1.801	-2.6	70	0.00
16	Acenaphthylene	1.884	1.895	-0.6	70	0.00
17	Acenaphthene	1.235	1.290	-4.5	72	0.00
18	Fluorene	1.359	1.337	1.6	68	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	62	-0.01
20	4,6-Dinitro-2-methylphenol	0.069	0.105	-52.2#	97	0.00
21	4-Bromophenyl-phenylether	0.274	0.294	-7.3	68	0.00
22	Hexachlorobenzene	0.374	0.375	-0.3	65	0.00
23	Atrazine	0.184	0.192	-4.3	68	0.00
24	Pentachlorophenol	0.132	0.156	-18.2	82	0.00
25	Phenanthrene	1.167	1.175	-0.7	64	-0.01
26	Anthracene	1.062	1.055	0.7	65	0.00
27 SURR	Fluoranthene-d10	0.993	0.961	3.2	61	0.00
28	Fluoranthene	1.361	1.300	4.5	61	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	59	0.00
30	Pyrene	1.624	1.650	-1.6	62	0.00
31 S	Terphenyl-d14	0.797	0.765	4.0	57	0.00
32	Benzo(a)anthracene	1.410	1.419	-0.6	62	0.00
33	Chrysene	1.475	1.450	1.7	59	0.00
34	Bis(2-ethylhexyl)phthalate	0.574	0.684	-19.2	69	0.00
35 I	Perylene-d12	1.000	1.000	0.0	64	0.00
36	Indeno(1,2,3-cd)pyrene	1.577	1.556	1.3	71	-0.01
37	Benzo(b)fluoranthene	1.374	1.283	6.6	64	0.00
38	Benzo(k)fluoranthene	1.360	1.323	2.7	68	0.00
39 C	Benzo(a)pyrene	1.190	1.141	4.1	68	0.00
40	Dibenzo(a,h)anthracene	1.255	1.238	1.4	72	-0.01
41	Benzo(g,h,i)perylene	1.403	1.360	3.1	70	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011025\
Data File : BN035912.D
Acq On : 10 Jan 2025 21:20
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jan 10 22:14:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	82	0.00
2	1,4-Dioxane	0.400	0.413	-3.2	90	0.00
3	n-Nitrosodimethylamine	0.400	0.439	-9.7	92	-0.01
4 S	2-Fluorophenol	0.400	0.373	6.8	79	0.00
5 S	Phenol-d6	0.400	0.373	6.8	79	0.00
6	bis(2-Chloroethyl)ether	0.400	0.376	6.0	76	-0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	73	0.00
8 S	Nitrobenzene-d5	0.400	0.444	-11.0	87	-0.01
9	Naphthalene	0.400	0.395	1.3	75	0.00
10	Hexachlorobutadiene	0.400	0.425	-6.2	81	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.385	3.8	72	0.00
12	2-Methylnaphthalene	0.400	0.389	2.8	73	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	67	0.00
14 S	2,4,6-Tribromophenol	0.400	0.459	-14.8	78	-0.01
15 S	2-Fluorobiphenyl	0.400	0.410	-2.5	70	0.00
16	Acenaphthylene	0.400	0.402	-0.5	70	0.00
17	Acenaphthene	0.400	0.418	-4.5	72	0.00
18	Fluorene	0.400	0.394	1.5	68	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	62	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.604	-51.0#	97	0.00
21	4-Bromophenyl-phenylether	0.400	0.429	-7.2	68	0.00
22	Hexachlorobenzene	0.400	0.401	-0.3	65	0.00
23	Atrazine	0.400	0.418	-4.5	68	0.00
24	Pentachlorophenol	0.400	0.470	-17.5	82	0.00
25	Phenanthrene	0.400	0.403	-0.8	64	-0.01
26	Anthracene	0.400	0.397	0.8	65	0.00
27 SURR	Fluoranthene-d10	0.400	0.387	3.3	61	0.00
28	Fluoranthene	0.400	0.382	4.5	61	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	59	0.00
30	Pyrene	0.400	0.406	-1.5	62	0.00
31 S	Terphenyl-d14	0.400	0.384	4.0	57	0.00
32	Benzo(a)anthracene	0.400	0.403	-0.8	62	0.00
33	Chrysene	0.400	0.393	1.8	59	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.477	-19.2	69	0.00
35 I	Perylene-d12	0.400	0.400	0.0	64	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.395	1.3	71	-0.01
37	Benzo(b)fluoranthene	0.400	0.373	6.8	64	0.00
38	Benzo(k)fluoranthene	0.400	0.389	2.8	68	0.00
39 C	Benzo(a)pyrene	0.400	0.384	4.0	68	0.00
40	Dibenzo(a,h)anthracene	0.400	0.395	1.3	72	-0.01
41	Benzo(g,h,i)perylene	0.400	0.388	3.0	70	-0.02

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1040 SAS No.: Q1040 SDG No.: Q1040

Instrument ID: BNA_N Calibration Date/Time: 01/13/2025 10:07

Lab File ID: BN035914.D Init. Calib. Date(s): 01/02/2025 01/02/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:28 15:04

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.536	0.496		-7.5	20.0
Fluoranthene-d10	0.993	0.914		-8.0	20.0
2-Fluorophenol	0.981	0.937		-4.5	20.0
Phenol-d6	1.219	1.133		-7.1	20.0
Nitrobenzene-d5	0.317	0.355		12.0	20.0
2-Fluorobiphenyl	1.755	1.826		4.0	20.0
2,4,6-Tribromophenol	0.192	0.220		14.6	20.0
Terphenyl-d14	0.797	0.760		-4.6	20.0
1,4-Dioxane	0.397	0.435		9.6	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011325\
 Data File : BN035914.D
 Acq On : 13 Jan 2025 10:07
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Jan 13 11:08:39 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

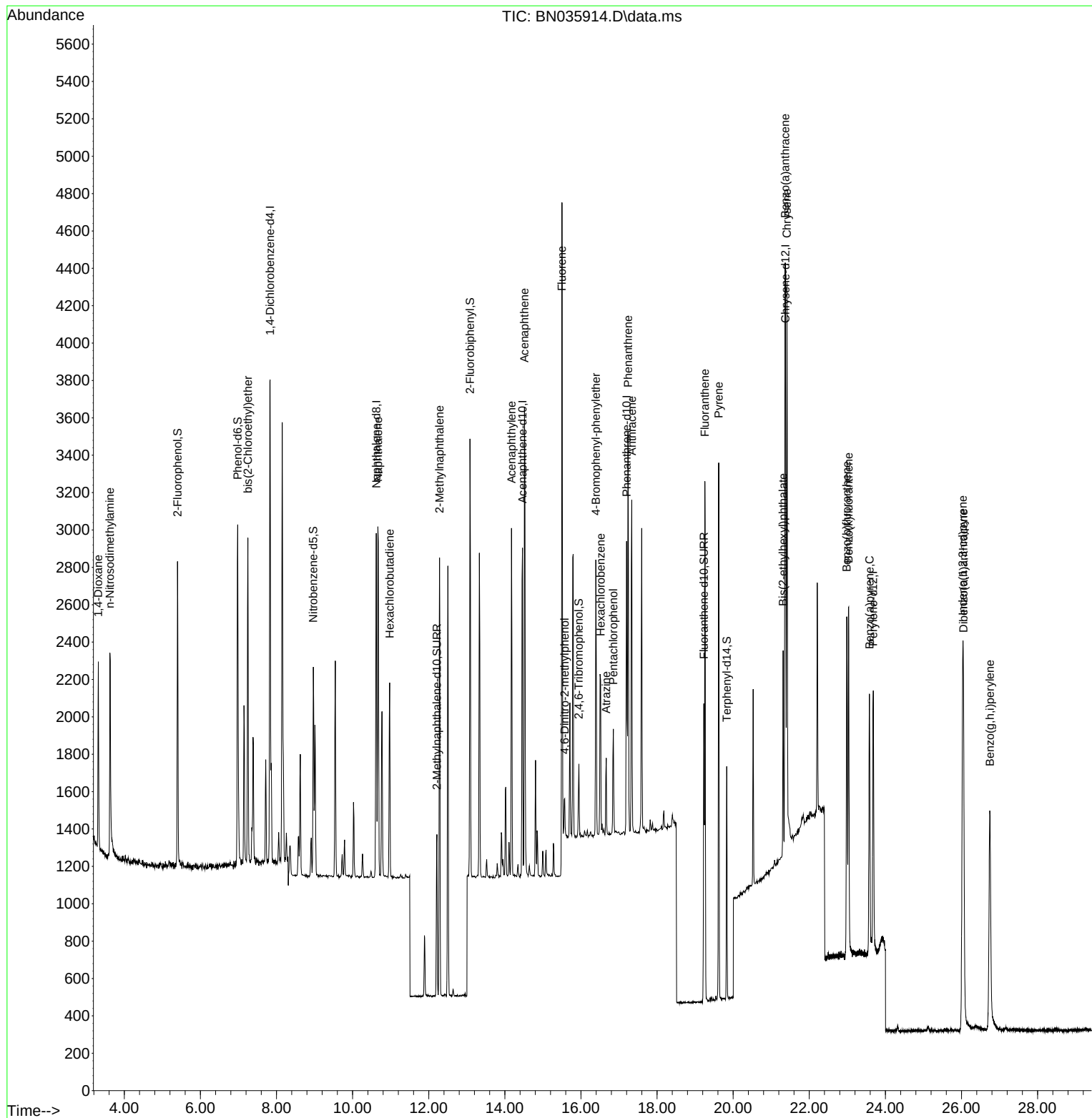
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.832	152	1245	0.400	ng	0.00
7) Naphthalene-d8	10.622	136	2271	0.400	ng	0.00
13) Acenaphthene-d10	14.463	164	1028	0.400	ng	0.00
19) Phenanthrene-d10	17.199	188	1955	0.400	ng	-0.01
29) Chrysene-d12	21.376	240	1568	0.400	ng	0.00
35) Perylene-d12	23.681	264	1851	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.398	112	1166	0.382	ng	-0.01
5) Phenol-d6	6.979	99	1411	0.372	ng	0.00
8) Nitrobenzene-d5	8.967	82	806	0.448	ng	-0.01
11) 2-Methylnaphthalene-d10	12.213	152	1126	0.370	ng	0.00
14) 2,4,6-Tribromophenol	15.945	330	226	0.458	ng	-0.01
15) 2-Fluorobiphenyl	13.084	172	1877	0.416	ng	0.00
27) Fluoranthene-d10	19.230	212	1787	0.368	ng	0.00
31) Terphenyl-d14	19.829	244	1192	0.381	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.318	88	541	0.438	ng	Qvalue 97
3) n-Nitrosodimethylamine	3.621	42	1023	0.474	ng	91
6) bis(2-Chloroethyl)ether	7.247	93	1138	0.394	ng	97
9) Naphthalene	10.664	128	2509	0.394	ng	99
10) Hexachlorobutadiene	10.974	225	840	0.406	ng	# 99
12) 2-Methylnaphthalene	12.284	142	1495	0.379	ng	99
16) Acenaphthylene	14.174	152	1926	0.398	ng	99
17) Acenaphthene	14.516	154	1289	0.406	ng	98
18) Fluorene	15.500	166	1302	0.373	ng	99
20) 4,6-Dinitro-2-methylph...	15.573	198	208	0.613	ng	# 80
21) 4-Bromophenyl-phenylether	16.392	248	545	0.407	ng	# 87
22) Hexachlorobenzene	16.516	284	699	0.382	ng	96
23) Atrazine	16.665	200	331	0.368	ng	# 90
24) Pentachlorophenol	16.851	266	309	0.478	ng	98
25) Phenanthrene	17.236	178	2187	0.383	ng	99
26) Anthracene	17.335	178	1968	0.379	ng	99
28) Fluoranthene	19.258	202	2414	0.363	ng	99
30) Pyrene	19.620	202	2505	0.393	ng	99
32) Benzo(a)anthracene	21.367	228	2173	0.393	ng	99
33) Chrysene	21.412	228	2271	0.393	ng	97
34) Bis(2-ethylhexyl)phtha...	21.313	149	945	0.420	ng	# 99
36) Indeno(1,2,3-cd)pyrene	26.031	276	2864	0.392	ng	98
37) Benzo(b)fluoranthene	22.985	252	2444	0.384	ng	95
38) Benzo(k)fluoranthene	23.032	252	2370	0.377	ng	96
39) Benzo(a)pyrene	23.581	252	2142	0.389	ng	97
40) Dibenzo(a,h)anthracene	26.052	278	2259	0.389	ng	96
41) Benzo(g,h,i)perylene	26.745	276	2552	0.393	ng	96

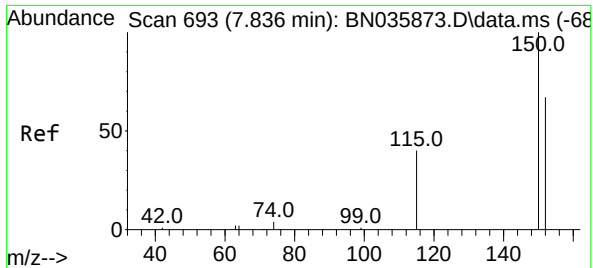
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011325\
Data File : BN035914.D
Acq On : 13 Jan 2025 10:07
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jan 13 11:08:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

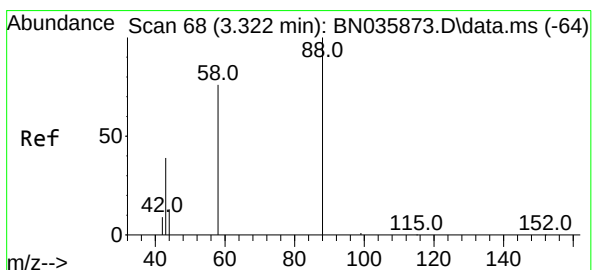
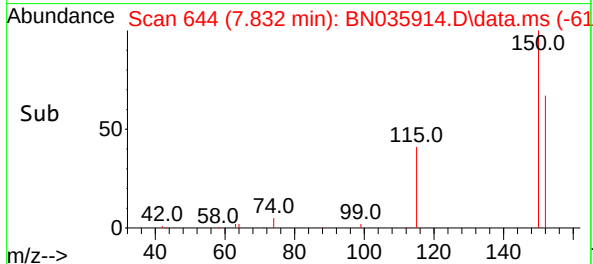
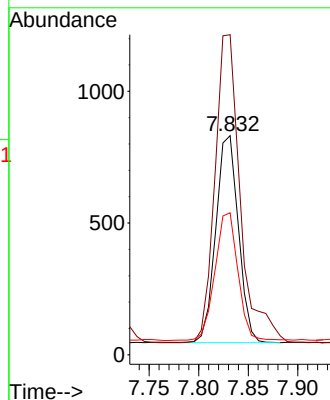
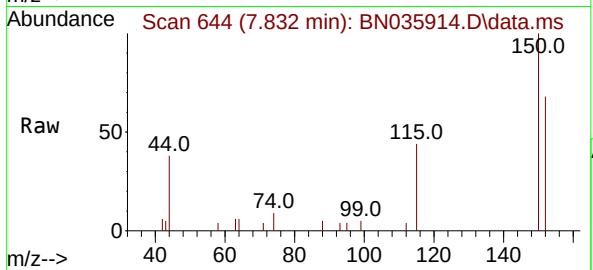




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.832 min Scan# 64
Delta R.T. -0.004 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

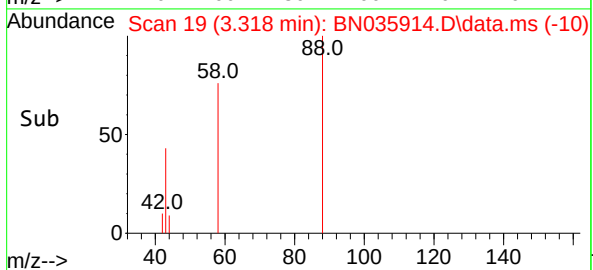
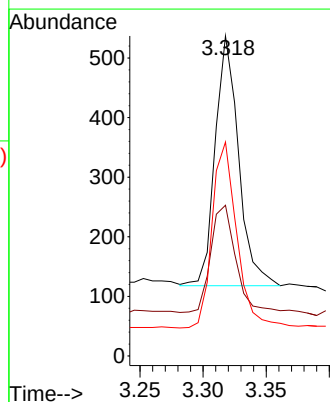
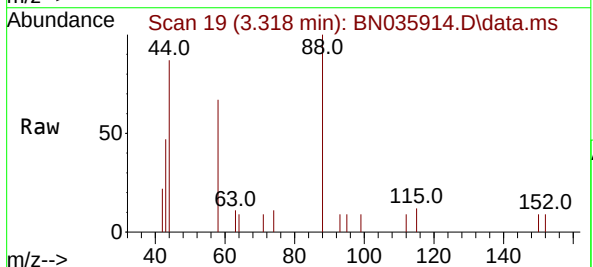
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1245
Ion Ratio Lower Upper
152 100
150 146.0 117.8 176.6
115 64.8 51.0 76.4

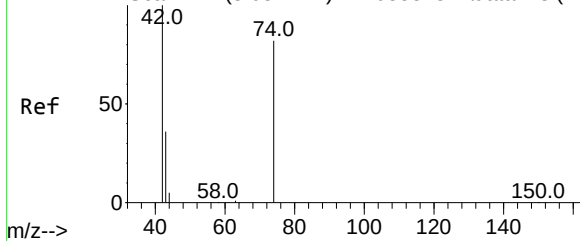


#2
1,4-Dioxane
Concen: 0.438 ng
RT: 3.318 min Scan# 19
Delta R.T. -0.004 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

Tgt Ion: 88 Resp: 541
Ion Ratio Lower Upper
88 100
43 45.7 32.7 49.1
58 78.4 63.0 94.4



Abundance Scan 111 (3.632 min): BN035873.D\data.ms (-10



#3

n-Nitrosodimethylamine

Concen: 0.474 ng

RT: 3.621 min Scan# 61

Delta R.T. -0.011 min

Lab File: BN035914.D

Acq: 13 Jan 2025 10:07

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 1023

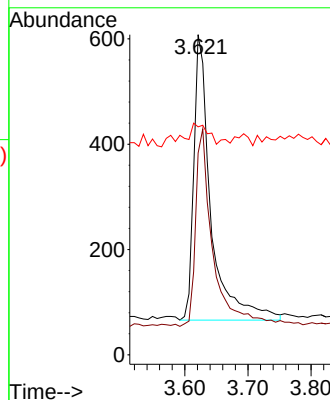
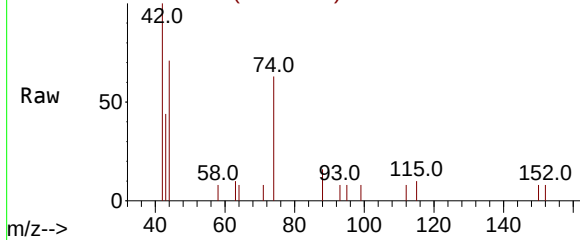
Ion Ratio Lower Upper

42 100

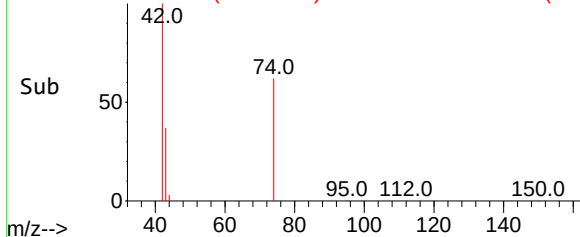
74 69.4 62.2 93.2

44 8.4 7.1 10.7

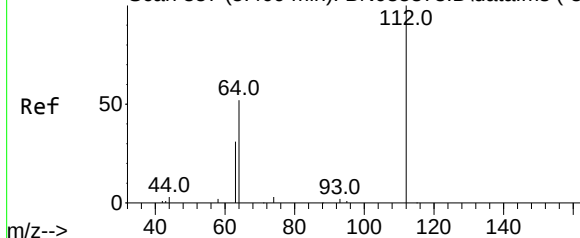
Abundance Scan 61 (3.621 min): BN035914.D\data.ms



Abundance Scan 61 (3.621 min): BN035914.D\data.ms (-42)



Abundance Scan 357 (5.409 min): BN035873.D\data.ms (-34



#4

2-Fluorophenol

Concen: 0.382 ng

RT: 5.398 min Scan# 307

Delta R.T. -0.011 min

Lab File: BN035914.D

Acq: 13 Jan 2025 10:07

Tgt Ion: 112 Resp: 1166

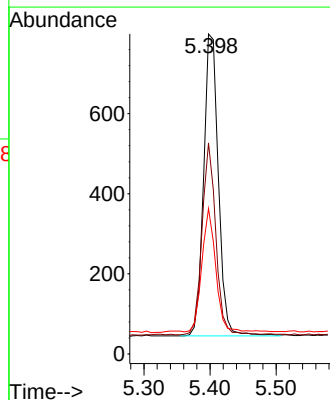
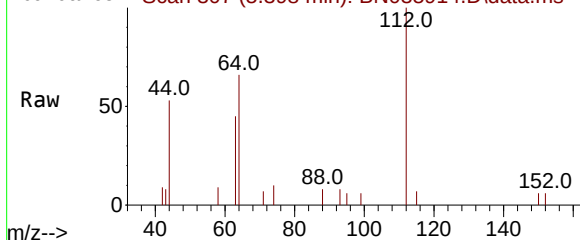
Ion Ratio Lower Upper

112 100

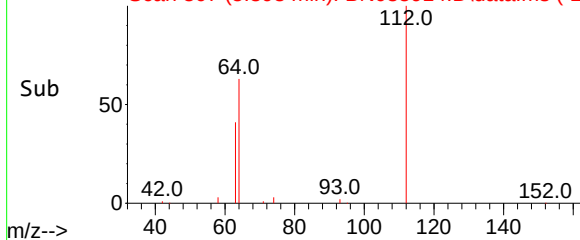
64 59.3 48.2 72.2

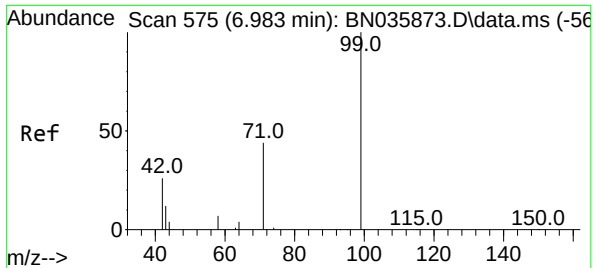
63 38.7 30.0 45.0

Abundance Scan 307 (5.398 min): BN035914.D\data.ms



Abundance Scan 307 (5.398 min): BN035914.D\data.ms (-28

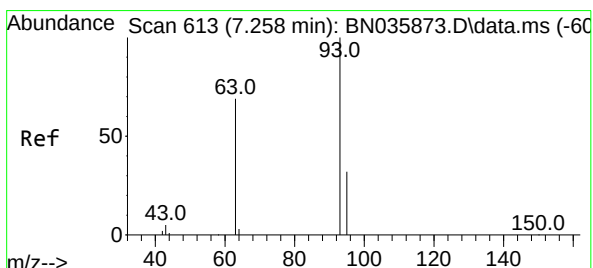
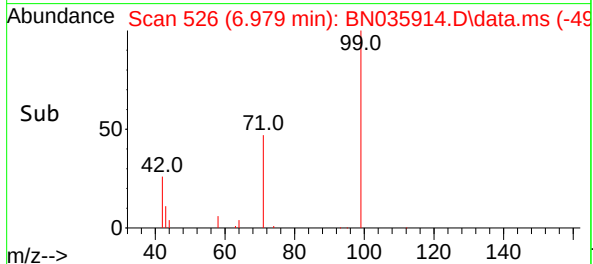
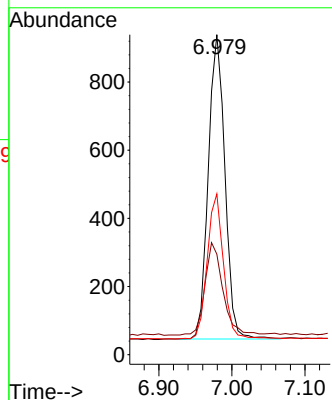
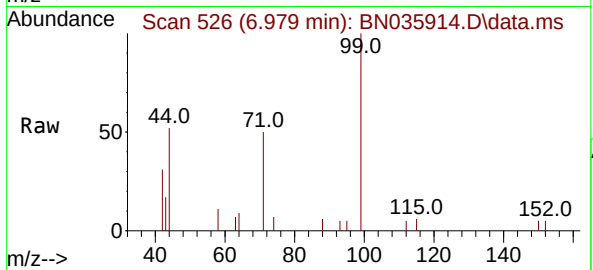




#5
Phenol-d6
Concen: 0.372 ng
RT: 6.979 min Scan# 51
Delta R.T. -0.004 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

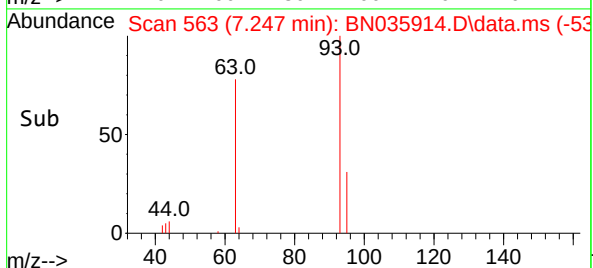
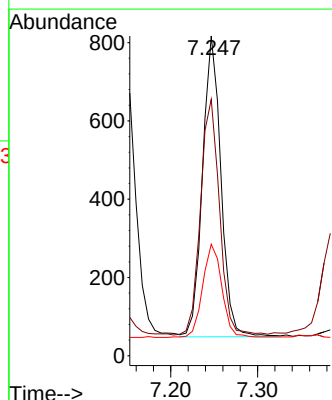
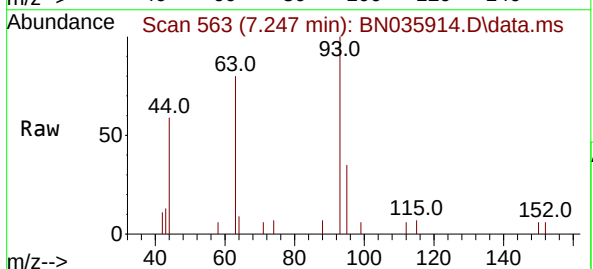
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

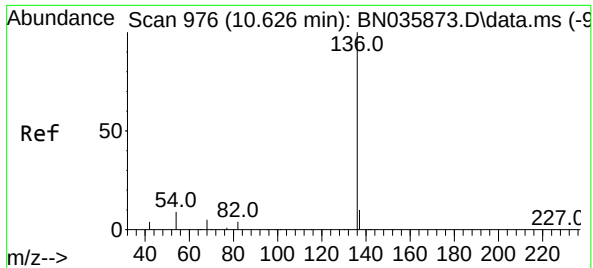
Tgt Ion: 99 Resp: 1411
Ion Ratio Lower Upper
99 100
42 32.5 23.5 35.3
71 47.1 35.5 53.3



#6
bis(2-Chloroethyl)ether
Concen: 0.394 ng
RT: 7.247 min Scan# 563
Delta R.T. -0.011 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

Tgt Ion: 93 Resp: 1138
Ion Ratio Lower Upper
93 100
63 80.6 62.0 93.0
95 32.2 25.5 38.3

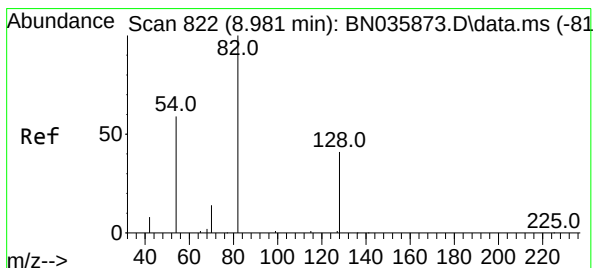
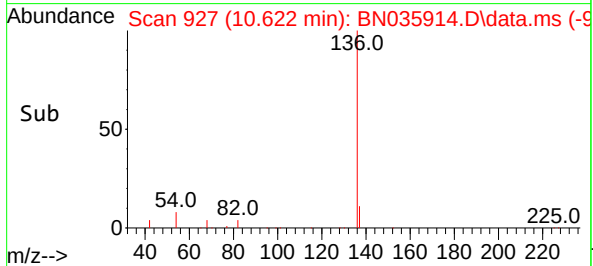
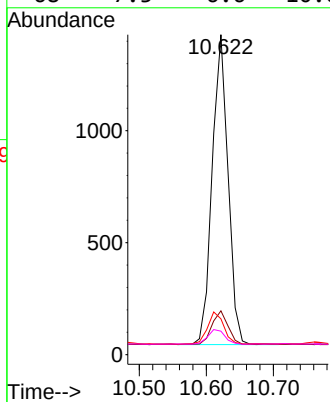
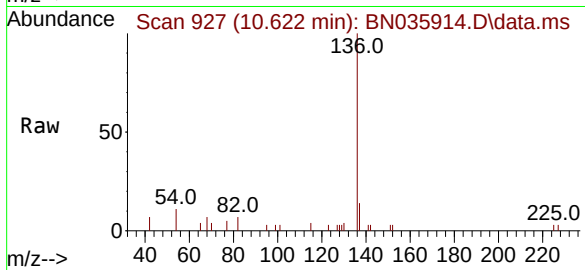




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.622 min Scan# 91
Delta R.T. -0.004 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

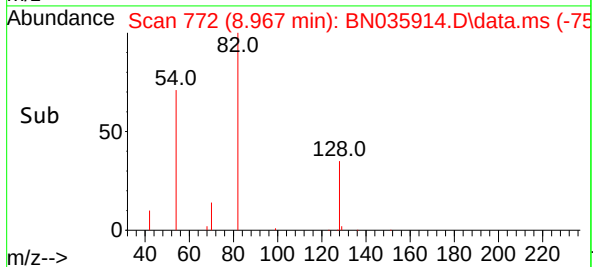
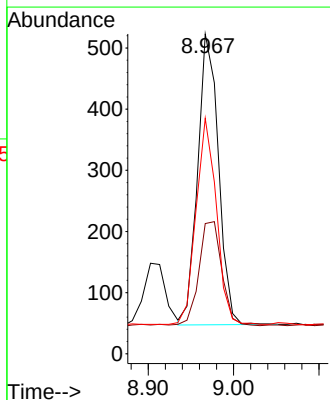
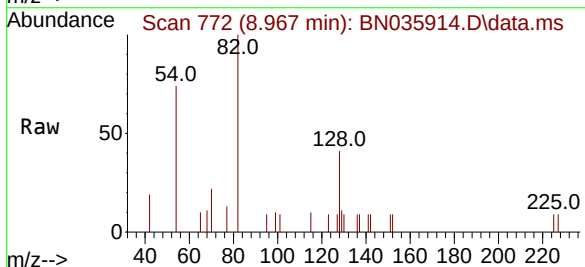
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

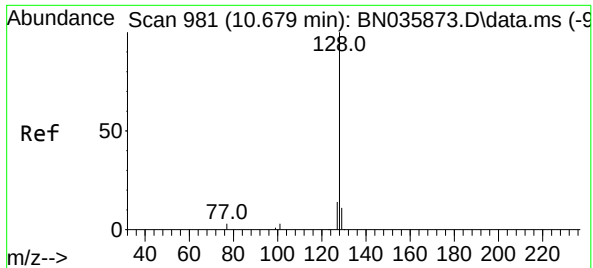
Tgt Ion:	136	Resp:	2271
Ion	Ratio	Lower	Upper
136	100		
137	13.7	10.6	15.8
54	11.2	9.8	14.6
68	7.3	6.6	10.0



#8
Nitrobenzene-d5
Concen: 0.448 ng
RT: 8.967 min Scan# 772
Delta R.T. -0.015 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

Tgt Ion:	82	Resp:	806
Ion	Ratio	Lower	Upper
82	100		
128	40.7	36.9	55.3
54	73.6	50.4	75.6

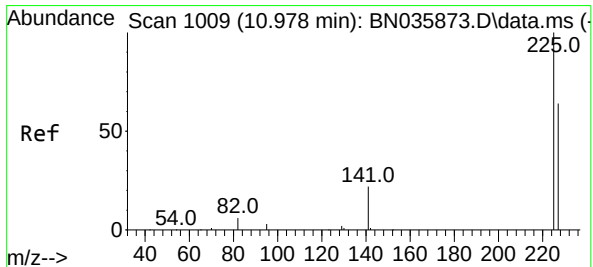
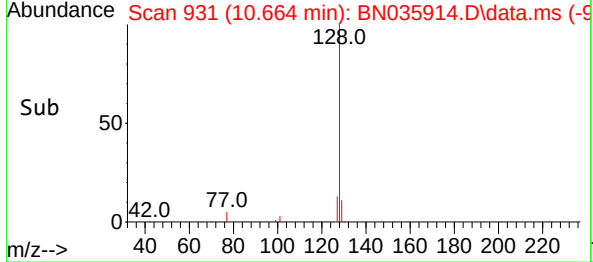
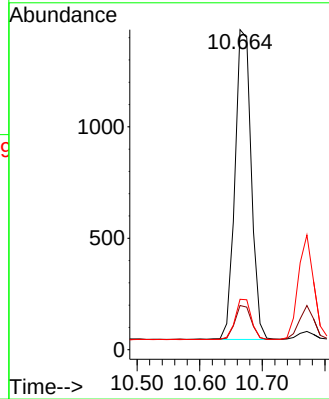
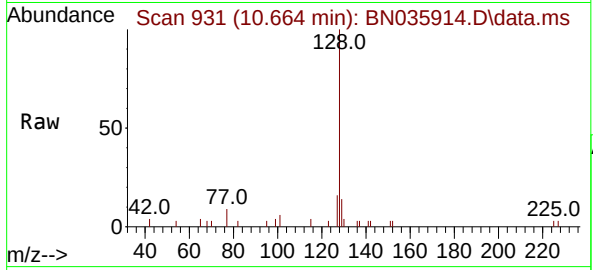




#9
Naphthalene
Concen: 0.394 ng
RT: 10.664 min Scan# 91
Delta R.T. -0.015 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

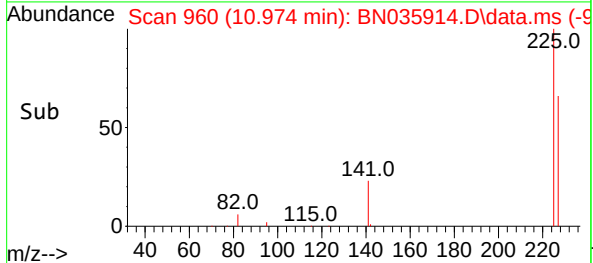
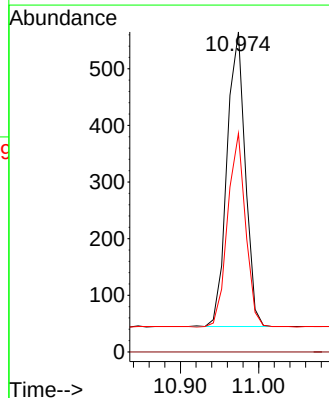
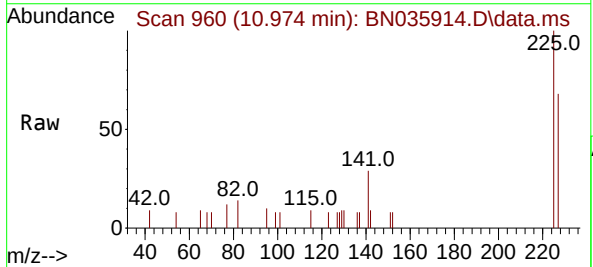
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

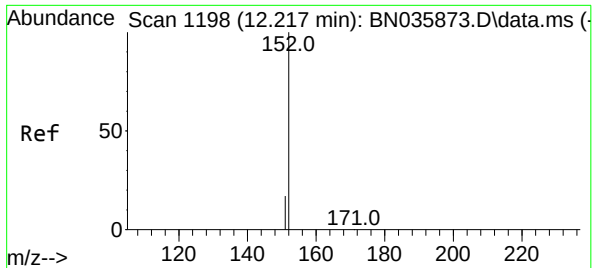
Tgt Ion:128 Resp: 2509
Ion Ratio Lower Upper
128 100
129 13.8 10.6 16.0
127 15.7 12.8 19.2



#10
Hexachlorobutadiene
Concen: 0.406 ng
RT: 10.974 min Scan# 960
Delta R.T. -0.004 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

Tgt Ion:225 Resp: 840
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.9 51.5 77.3

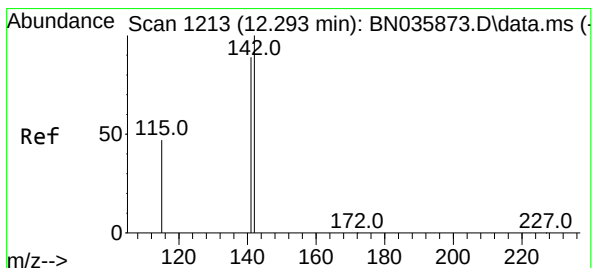
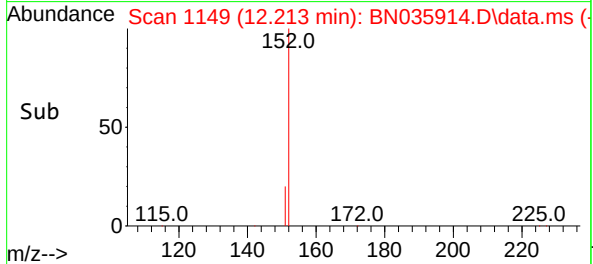
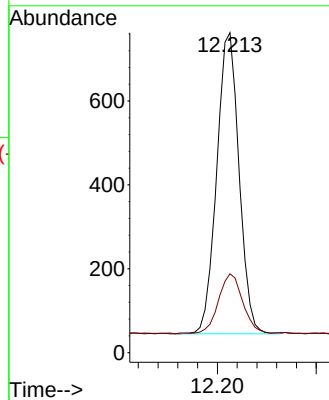
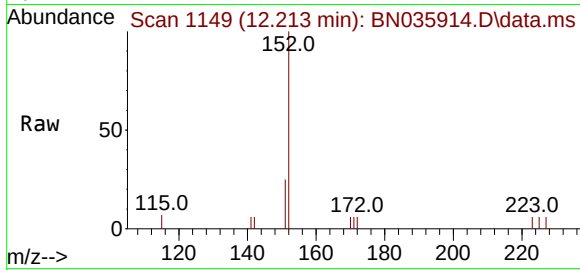




#11
2-Methylnaphthalene-d10
Concen: 0.370 ng
RT: 12.213 min Scan# 1163
Delta R.T. -0.004 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

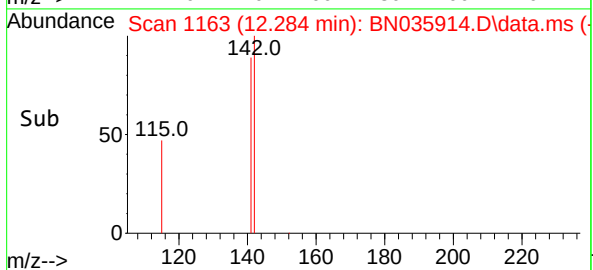
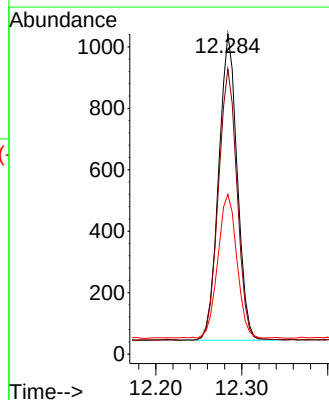
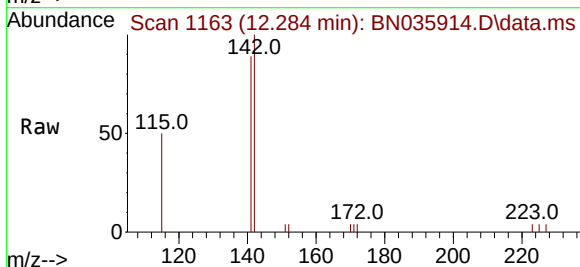
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

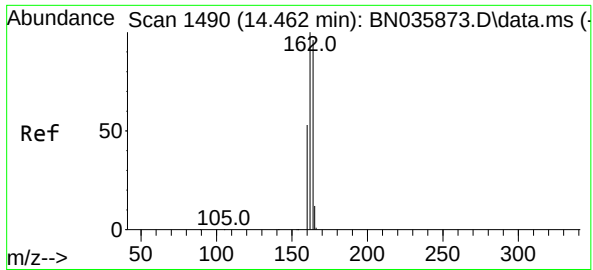
Tgt Ion:152 Resp: 1126
Ion Ratio Lower Upper
152 100
151 21.8 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.379 ng
RT: 12.284 min Scan# 1163
Delta R.T. -0.009 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

Tgt Ion:142 Resp: 1495
Ion Ratio Lower Upper
142 100
141 89.1 71.9 107.9
115 49.9 39.6 59.4

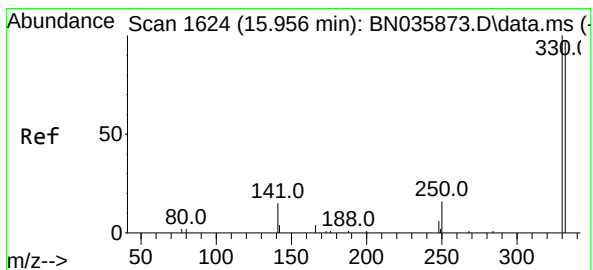
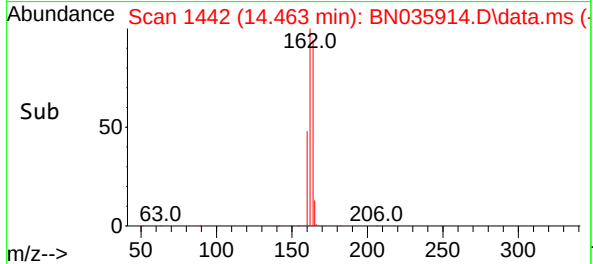
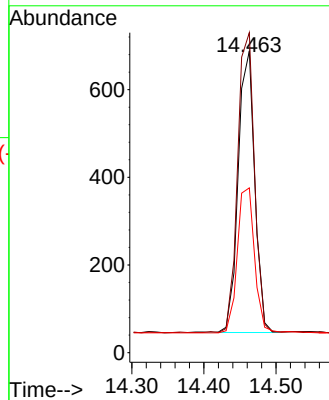
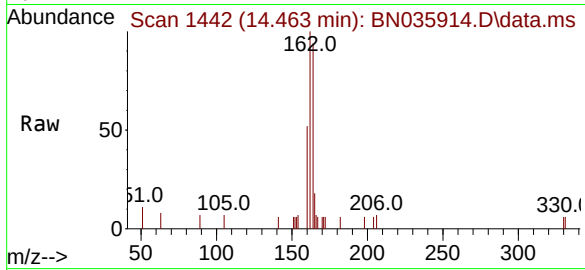




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.463 min Scan# 14
Delta R.T. 0.001 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

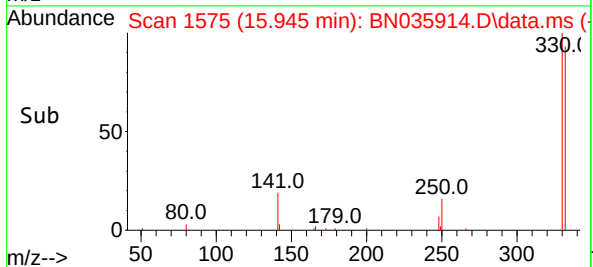
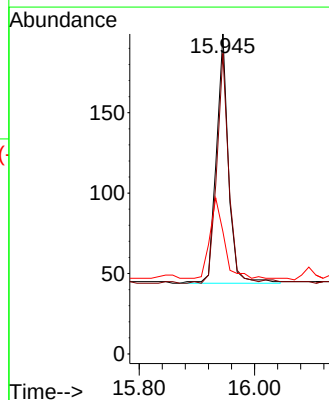
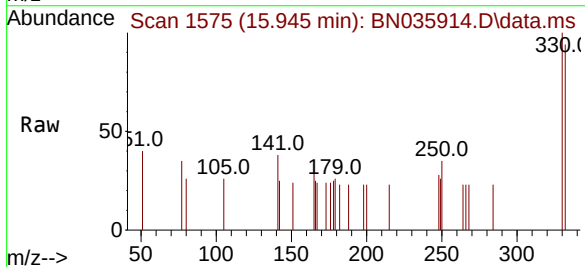
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

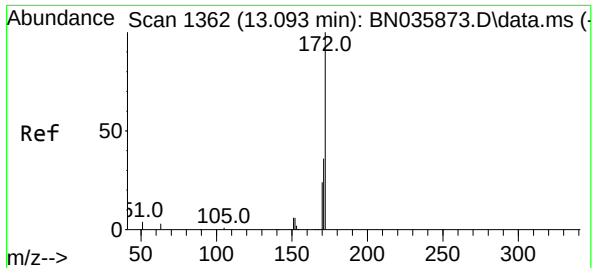
Tgt Ion:164 Resp: 1028
Ion Ratio Lower Upper
164 100
162 106.1 83.1 124.7
160 54.7 46.0 69.0



#14
2,4,6-Tribromophenol
Concen: 0.458 ng
RT: 15.945 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

Tgt Ion:330 Resp: 226
Ion Ratio Lower Upper
330 100
332 91.2 77.2 115.8
141 37.2 31.6 47.4

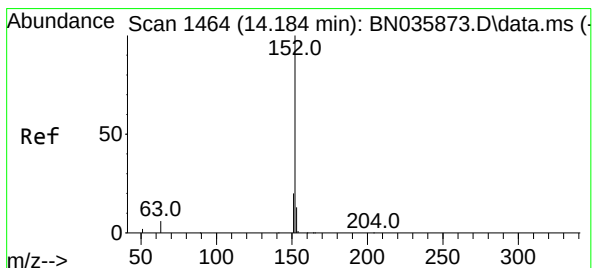
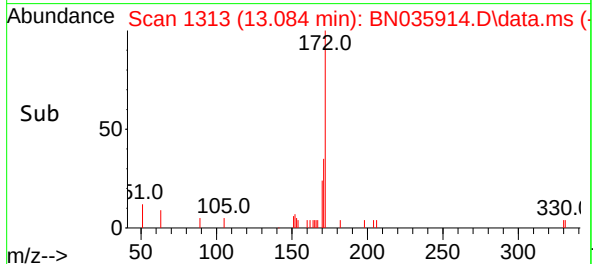
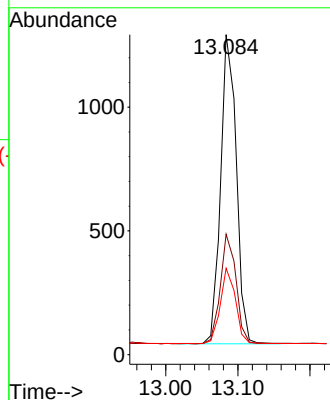
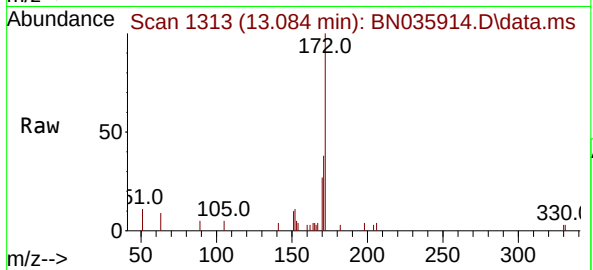




#15
2-Fluorobiphenyl
Concen: 0.416 ng
RT: 13.084 min Scan# 1412
Delta R.T. -0.010 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

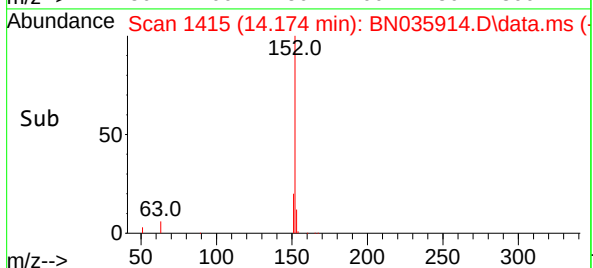
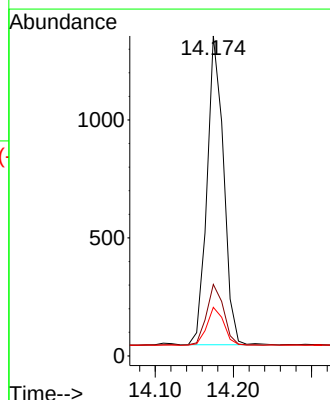
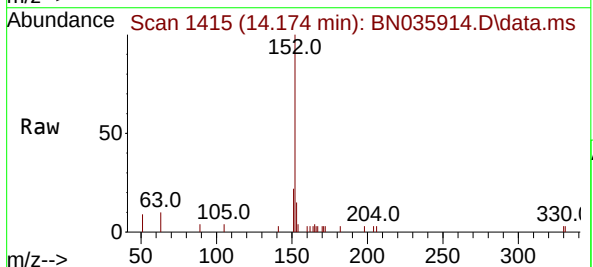
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

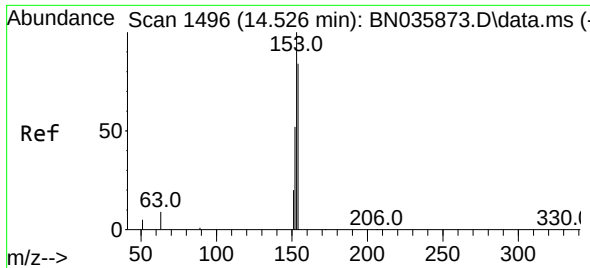
Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.7	30.5	45.7
170	27.0	20.8	31.2



#16
Acenaphthylene
Concen: 0.398 ng
RT: 14.174 min Scan# 1415
Delta R.T. -0.010 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.3	24.5
153	12.9	10.6	15.8

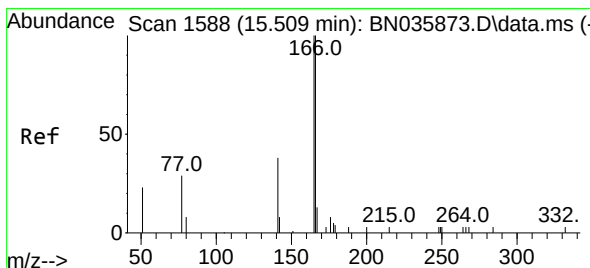
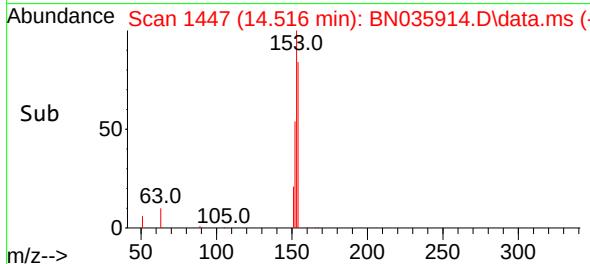
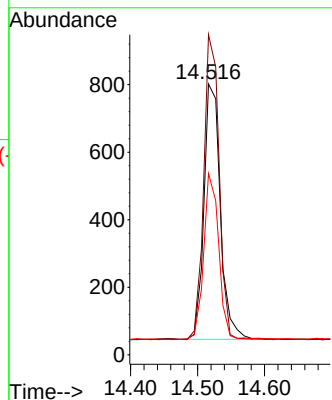
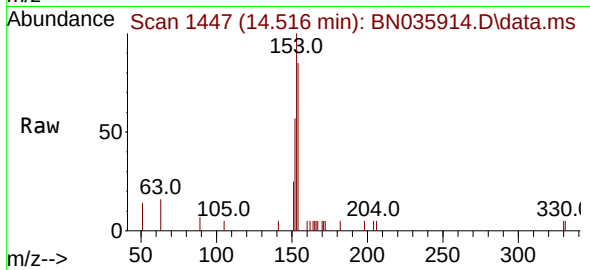




#17
Acenaphthene
Concen: 0.406 ng
RT: 14.516 min Scan# 1496
Delta R.T. -0.010 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

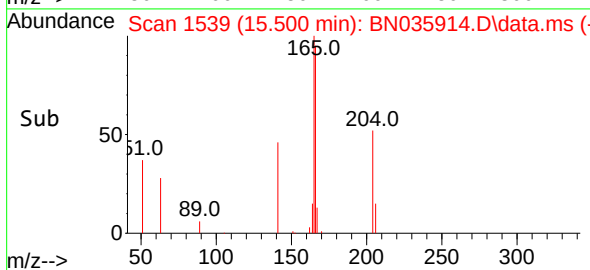
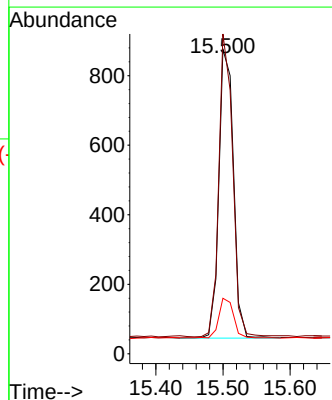
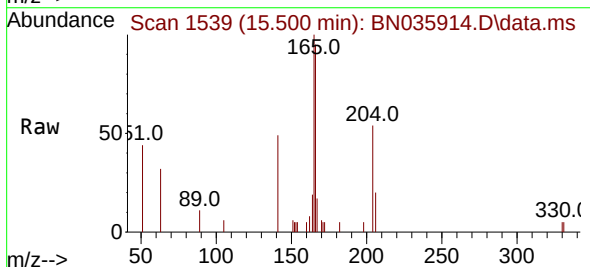
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

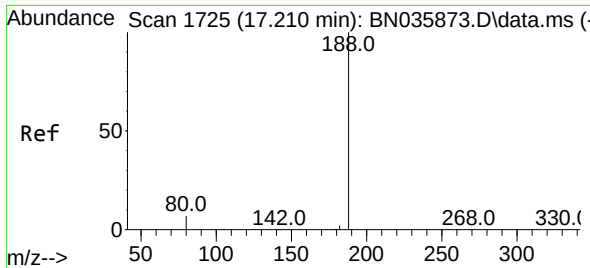
Tgt Ion:154 Resp: 1289
Ion Ratio Lower Upper
154 100
153 111.4 90.5 135.7
152 59.6 48.6 73.0



#18
Fluorene
Concen: 0.373 ng
RT: 15.500 min Scan# 1539
Delta R.T. -0.010 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

Tgt Ion:166 Resp: 1302
Ion Ratio Lower Upper
166 100
165 102.0 80.6 120.8
167 14.2 11.4 17.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.199 min Scan# 1

Delta R.T. -0.011 min

Lab File: BN035914.D

Acq: 13 Jan 2025 10:07

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

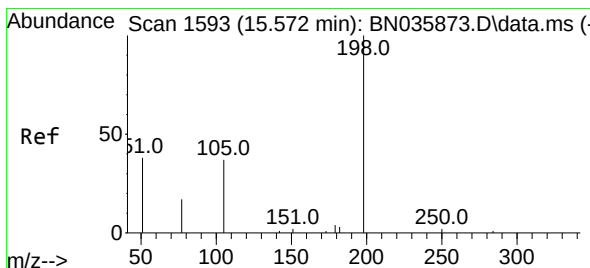
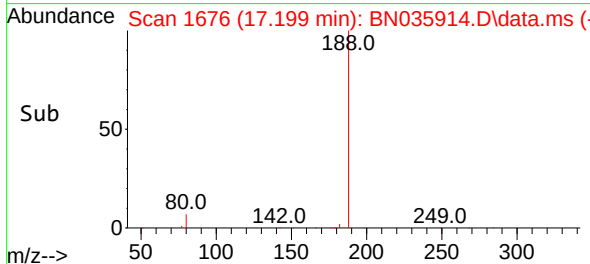
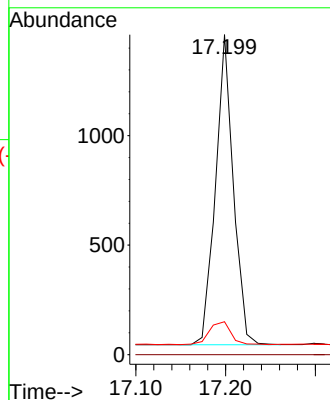
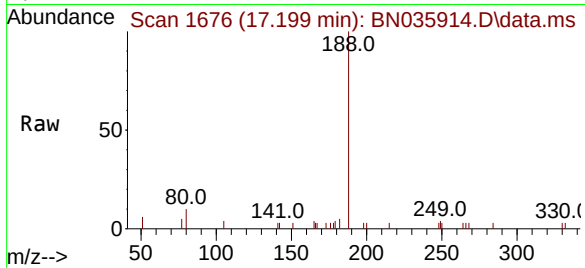
Tgt Ion:188 Resp: 1955

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.3 7.3 10.9



#20

4,6-Dinitro-2-methylphenol

Concen: 0.613 ng

RT: 15.573 min Scan# 1545

Delta R.T. 0.001 min

Lab File: BN035914.D

Acq: 13 Jan 2025 10:07

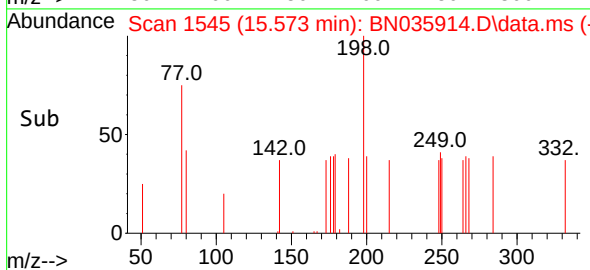
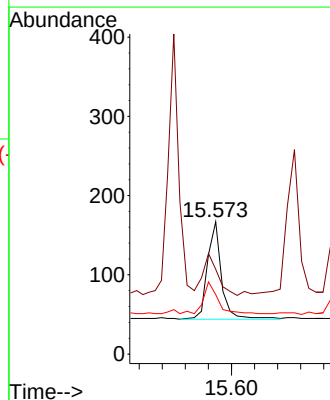
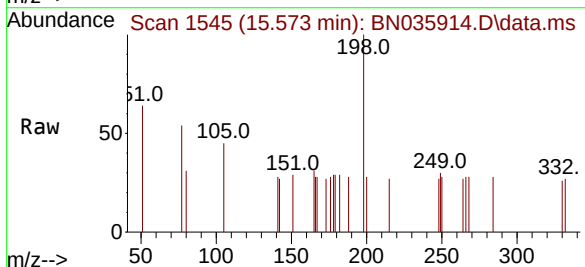
Tgt Ion:198 Resp: 208

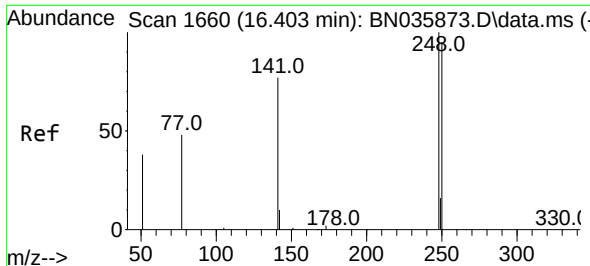
Ion Ratio Lower Upper

198 100

51 64.1 64.3 96.5#

105 44.9 50.0 75.0#

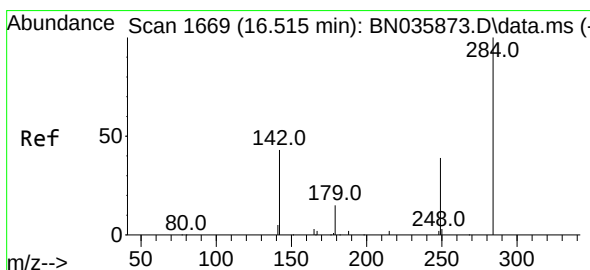
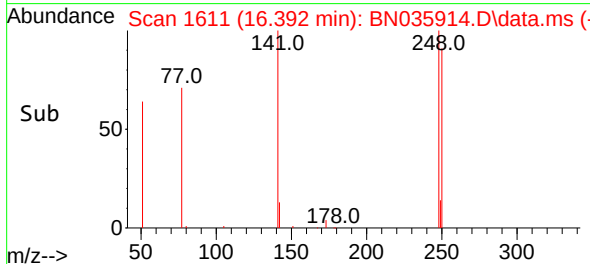
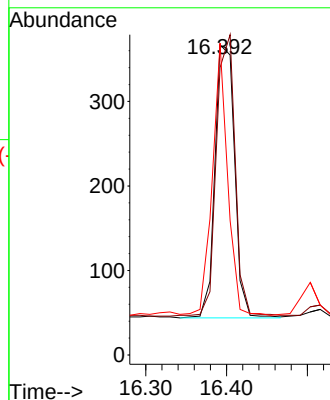
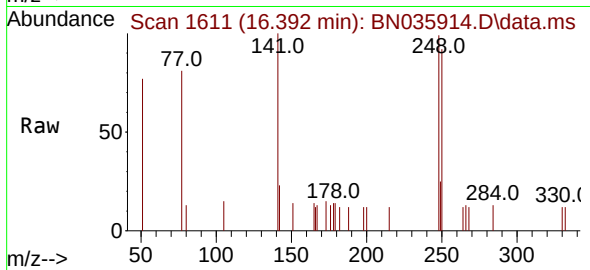




#21
4-Bromophenyl-phenylether
Concen: 0.407 ng
RT: 16.392 min Scan# 1611
Delta R.T. -0.011 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

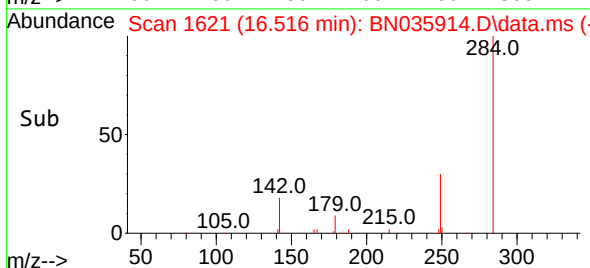
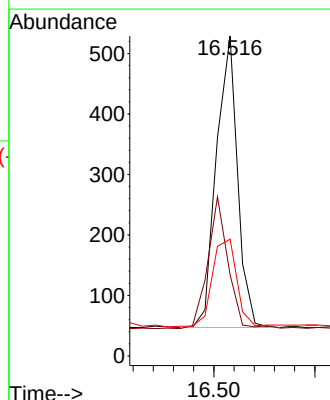
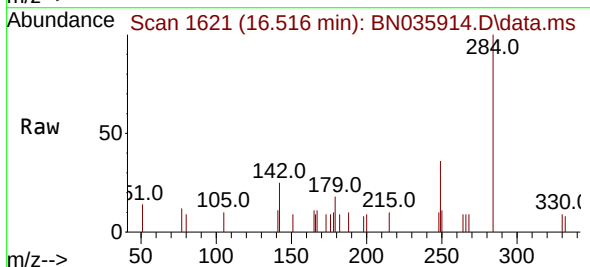
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

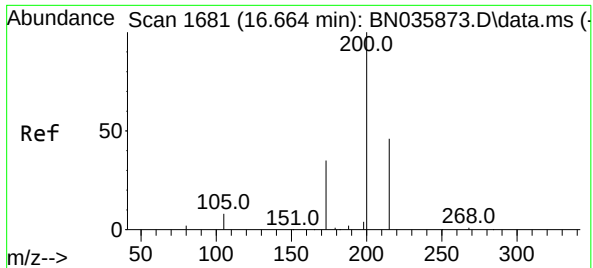
Tgt Ion:248 Resp: 545
Ion Ratio Lower Upper
248 100
250 92.6 76.8 115.2
141 100.5 63.6 95.4#



#22
Hexachlorobenzene
Concen: 0.382 ng
RT: 16.516 min Scan# 1621
Delta R.T. 0.001 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

Tgt Ion:284 Resp: 699
Ion Ratio Lower Upper
284 100
142 43.8 31.4 47.0
249 34.9 27.8 41.8

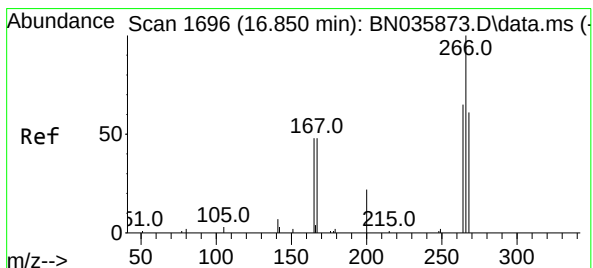
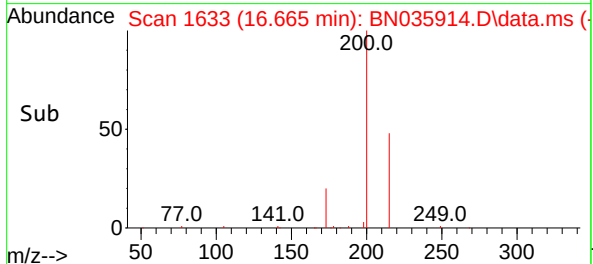
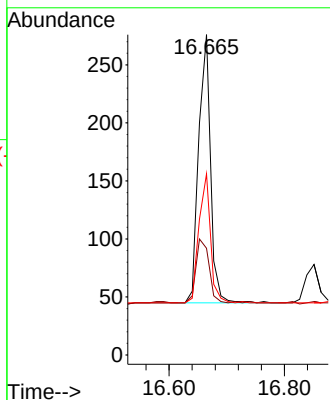
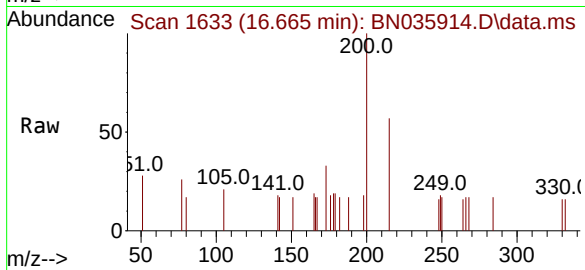




#23
Atrazine
Concen: 0.368 ng
RT: 16.665 min Scan# 1633
Delta R.T. 0.001 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

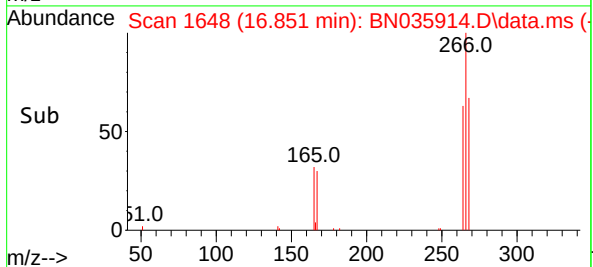
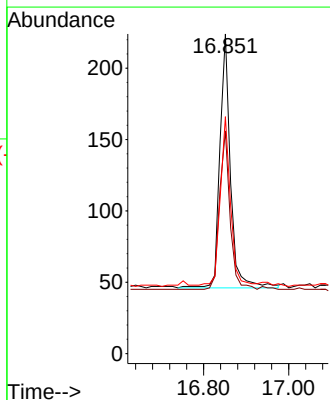
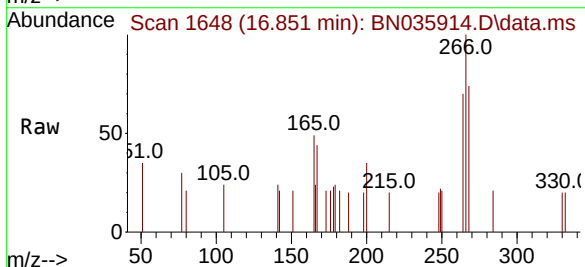
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

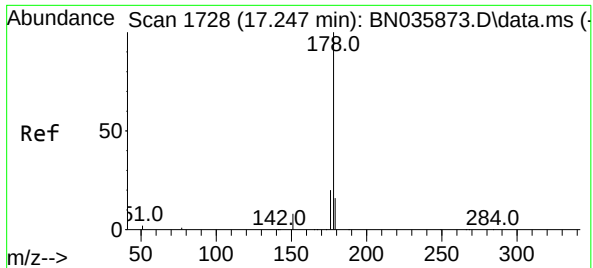
Tgt Ion	Ratio	Lower	Upper
200	100		
173	33.3	35.4	53.0
215	56.5	42.4	63.6



#24
Pentachlorophenol
Concen: 0.478 ng
RT: 16.851 min Scan# 1648
Delta R.T. 0.001 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

Tgt Ion	Ratio	Lower	Upper
266	100		
264	60.8	49.9	74.9
268	63.8	50.2	75.2

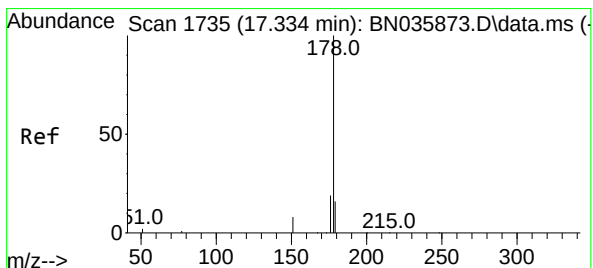
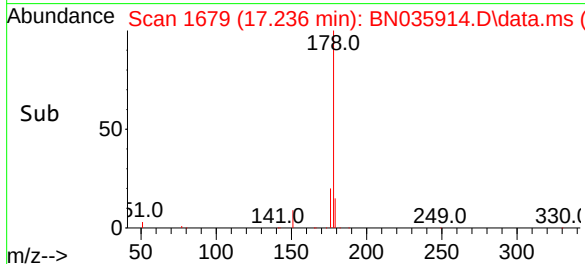
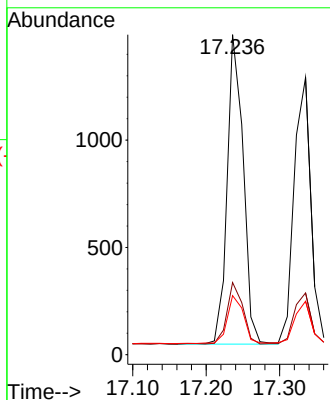
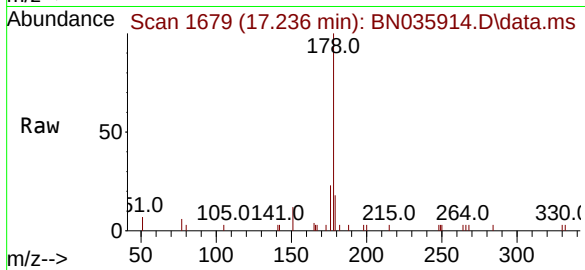




#25
Phenanthrene
Concen: 0.383 ng
RT: 17.236 min Scan# 1687
Delta R.T. -0.011 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

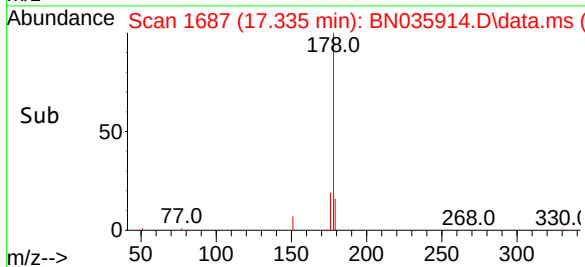
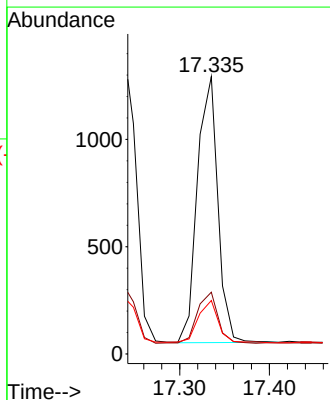
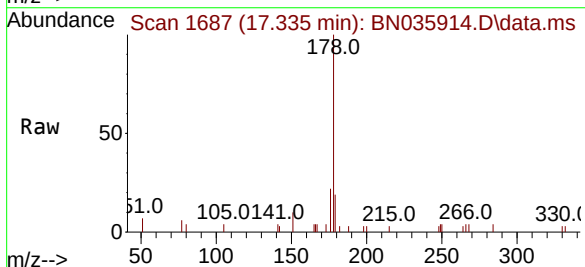
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

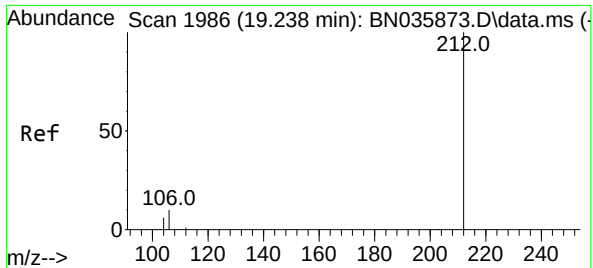
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.9	23.9
179	16.1	12.9	19.3



#26
Anthracene
Concen: 0.379 ng
RT: 17.335 min Scan# 1687
Delta R.T. 0.001 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.0	22.6
179	15.8	13.0	19.6

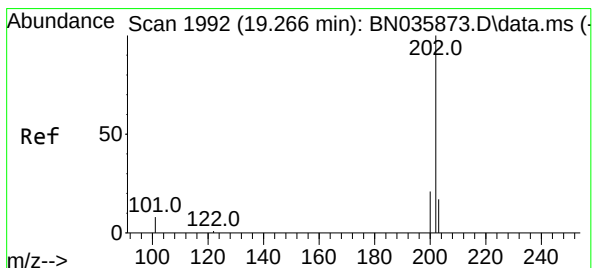
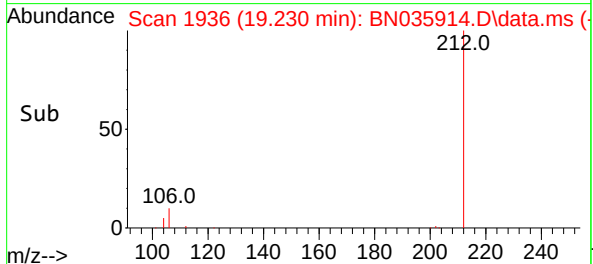
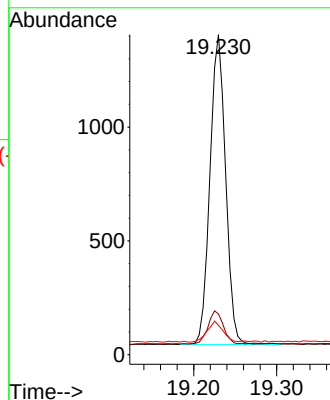
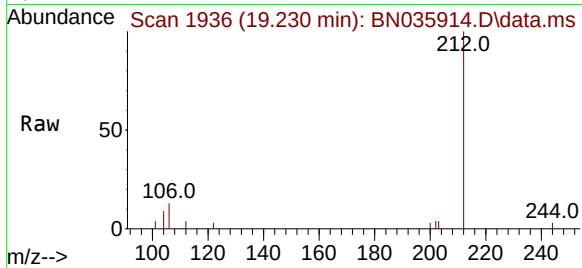




#27
Fluoranthene-d10
Concen: 0.368 ng
RT: 19.230 min Scan# 1942
Delta R.T. -0.008 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

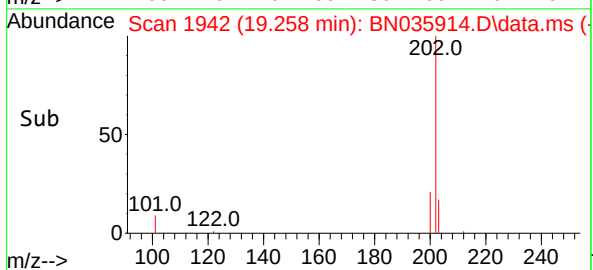
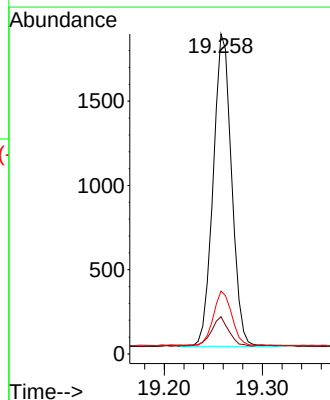
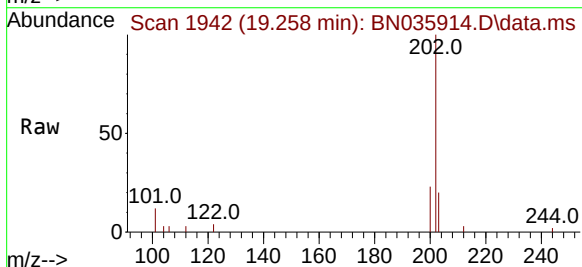
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

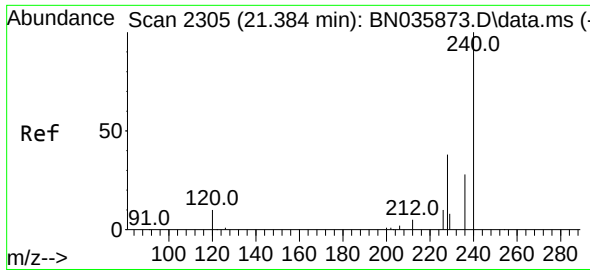
Tgt Ion	Ratio	Lower	Upper
212	100		
106	10.7	9.0	13.6
104	6.6	5.4	8.2



#28
Fluoranthene
Concen: 0.363 ng
RT: 19.258 min Scan# 1942
Delta R.T. -0.008 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

Tgt Ion	Ratio	Lower	Upper
202	100		
101	8.9	7.2	10.8
203	17.1	13.9	20.9

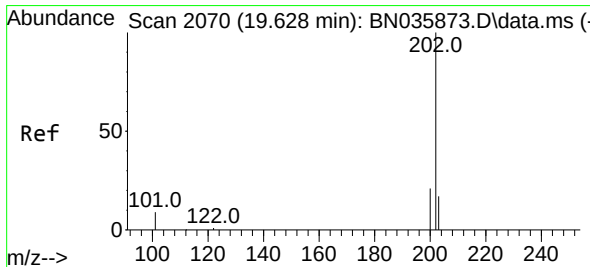
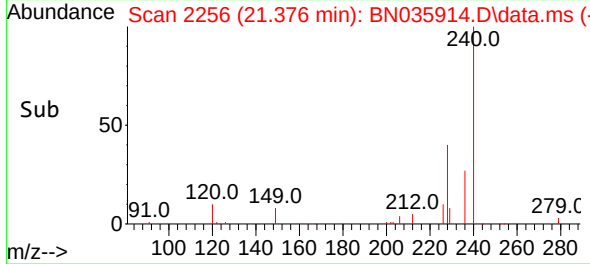
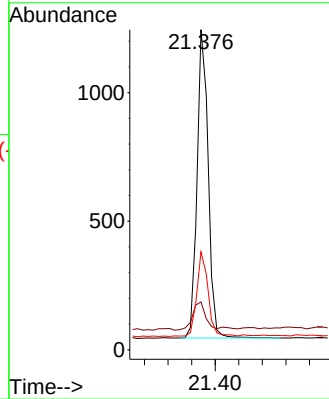
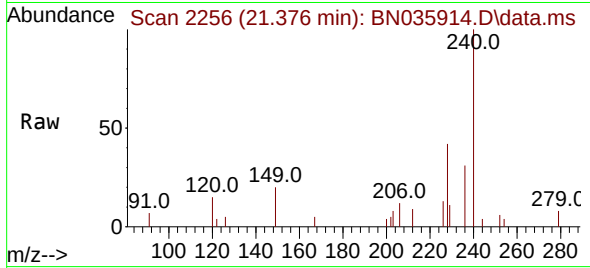




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.376 min Scan# 21
Delta R.T. -0.008 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

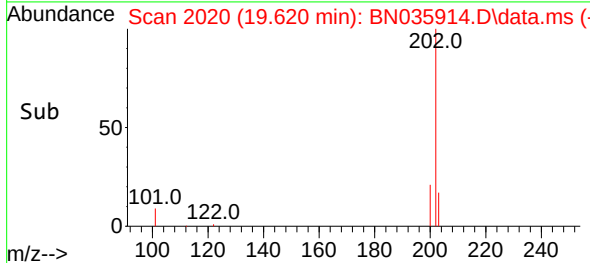
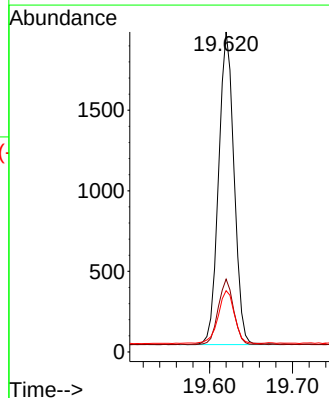
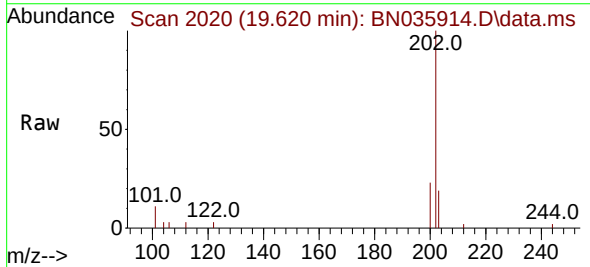
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

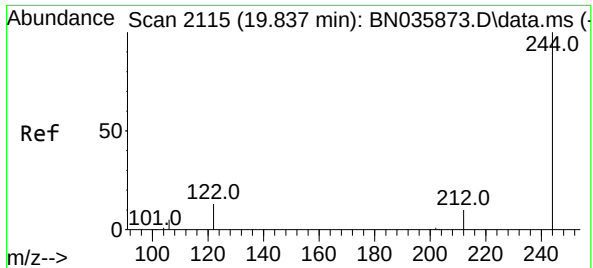
Tgt Ion:240 Resp: 1568
Ion Ratio Lower Upper
240 100
120 14.9 11.1 16.7
236 30.6 24.6 36.8



#30
Pyrene
Concen: 0.393 ng
RT: 19.620 min Scan# 2020
Delta R.T. -0.008 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

Tgt Ion:202 Resp: 2505
Ion Ratio Lower Upper
202 100
200 20.8 17.0 25.6
203 17.9 14.6 22.0

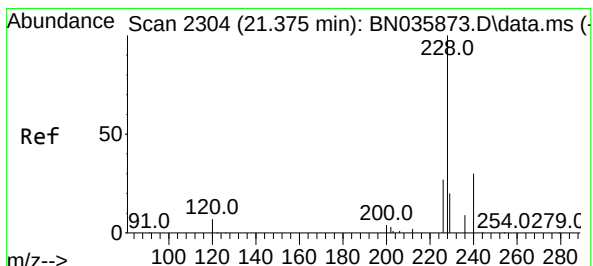
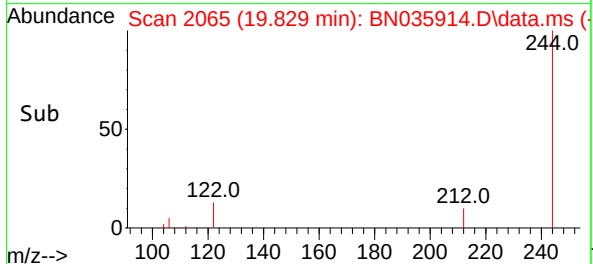
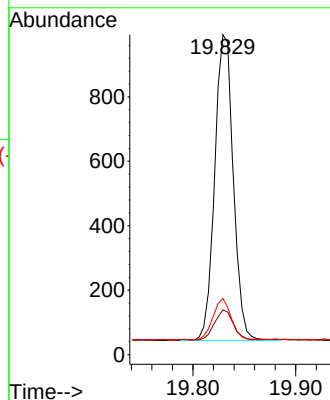
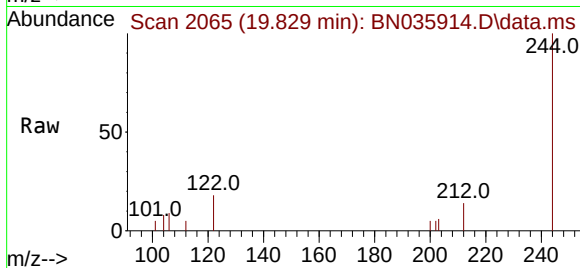




#31
Terphenyl-d14
Concen: 0.381 ng
RT: 19.829 min Scan# 2065
Delta R.T. -0.008 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

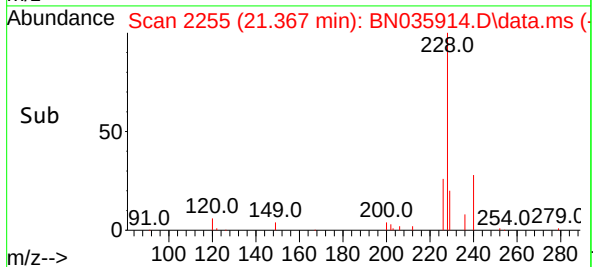
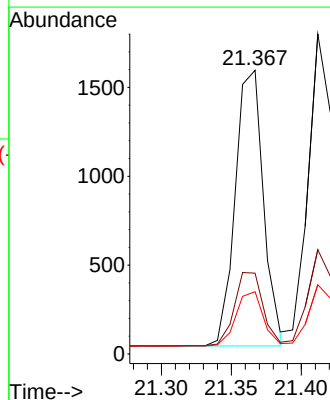
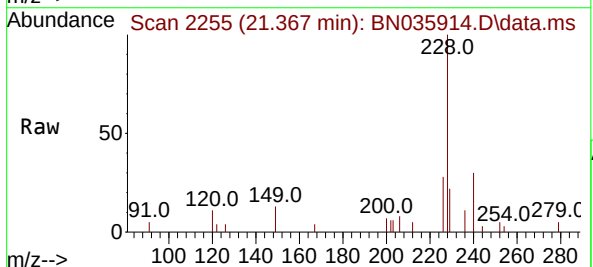
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

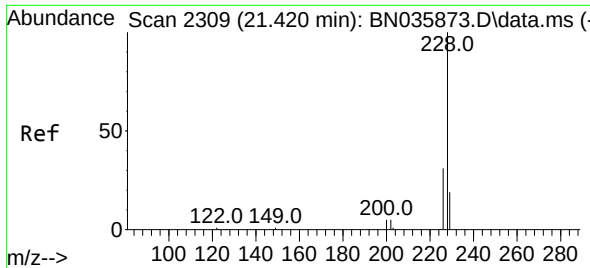
Tgt Ion	Ratio	Lower	Upper
244	100		
212	14.0	10.1	15.1
122	17.5	12.2	18.4



#32
Benzo(a)anthracene
Concen: 0.393 ng
RT: 21.367 min Scan# 2255
Delta R.T. -0.008 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.7	34.1
229	21.9	17.1	25.7

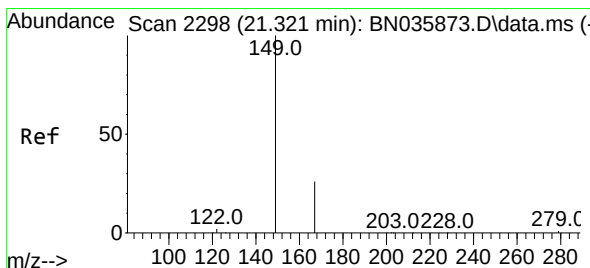
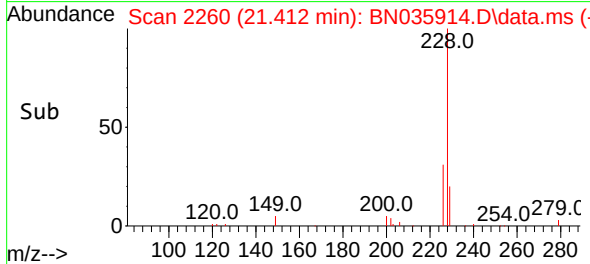
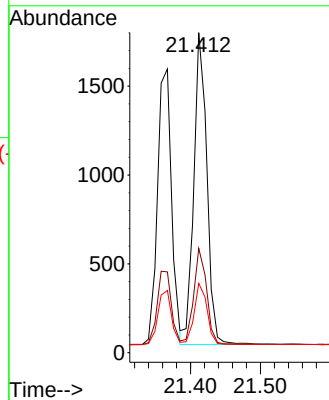
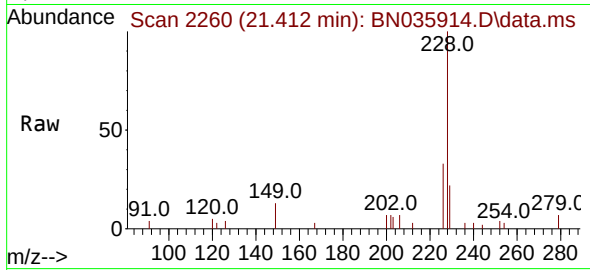




#33
Chrysene
Concen: 0.393 ng
RT: 21.412 min Scan# 21
Delta R.T. -0.008 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

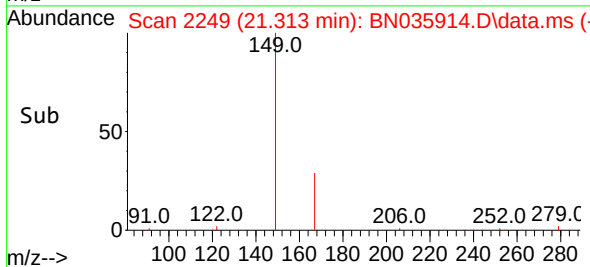
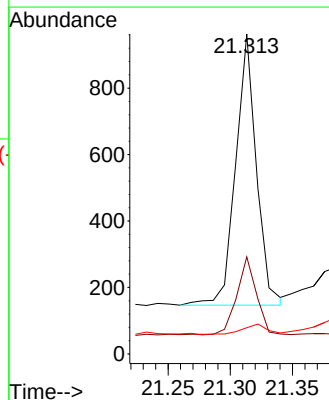
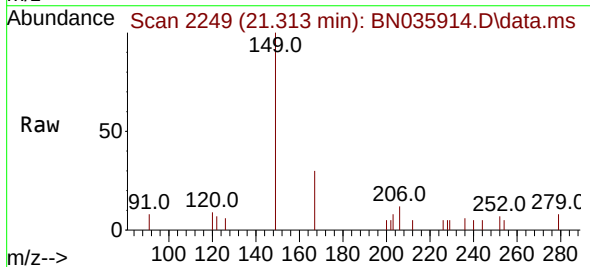
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

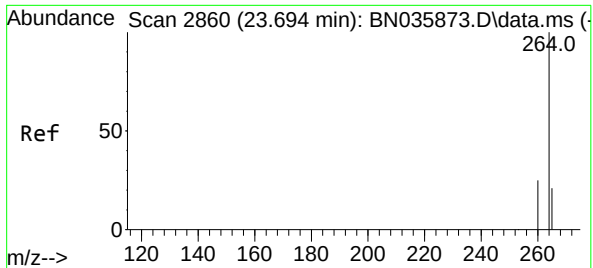
Tgt Ion:	228	Resp:	2271
Ion Ratio	Lower	Upper	
228	100		
226	32.6	25.2	37.8
229	21.7	16.0	24.0



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.420 ng
RT: 21.313 min Scan# 2249
Delta R.T. -0.008 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

Tgt Ion:	149	Resp:	945
Ion Ratio	Lower	Upper	
149	100		
167	26.9	21.4	32.0
279	5.1	3.0	4.6#

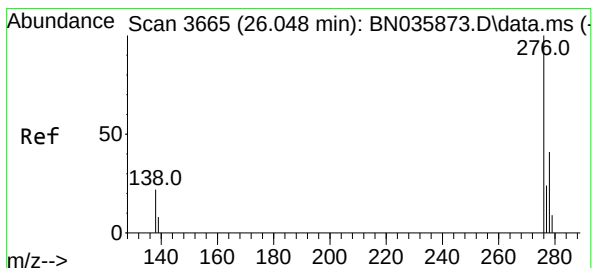
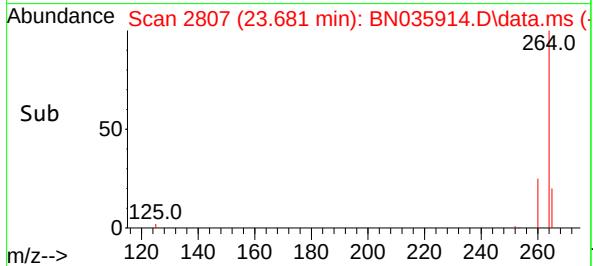
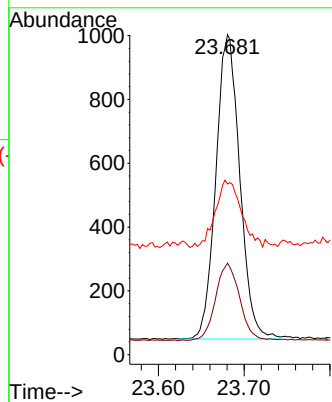
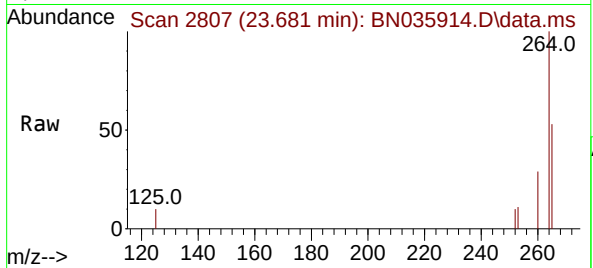




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.681 min Scan# 21
Delta R.T. -0.013 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

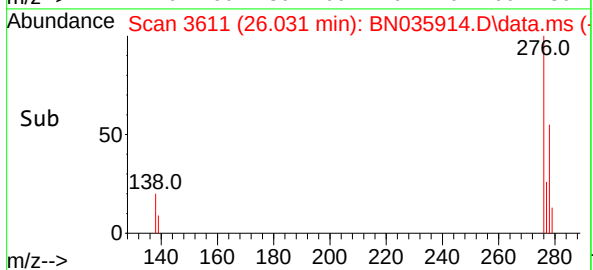
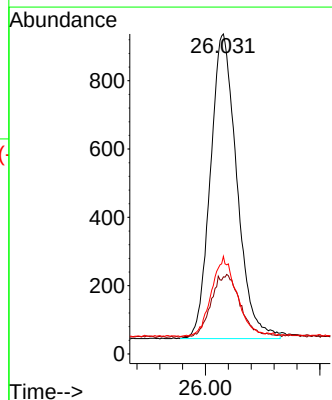
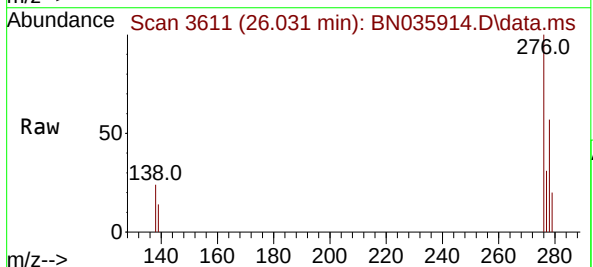
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

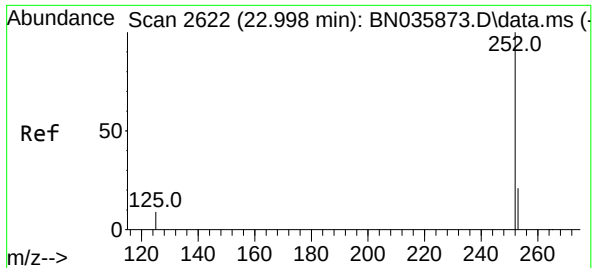
Tgt Ion:264 Resp: 1851
Ion Ratio Lower Upper
264 100
260 28.6 21.7 32.5
265 53.3 33.9 50.9#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.392 ng
RT: 26.031 min Scan# 3611
Delta R.T. -0.016 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

Tgt Ion:276 Resp: 2864
Ion Ratio Lower Upper
276 100
138 22.1 18.9 28.3
277 25.1 19.5 29.3

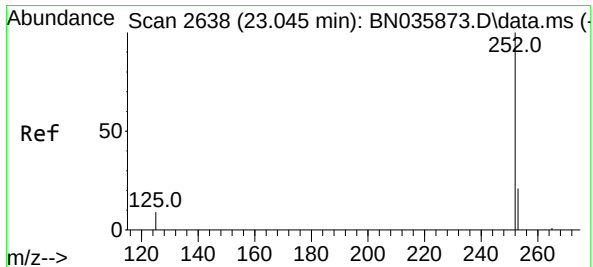
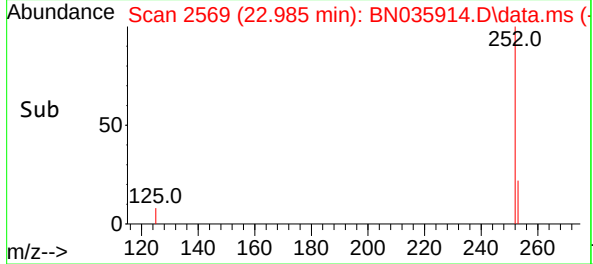
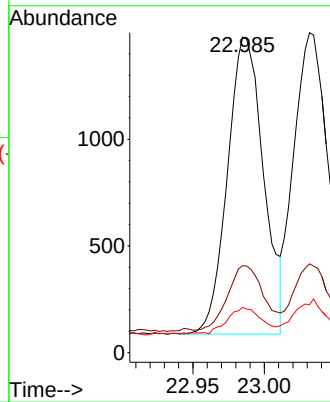
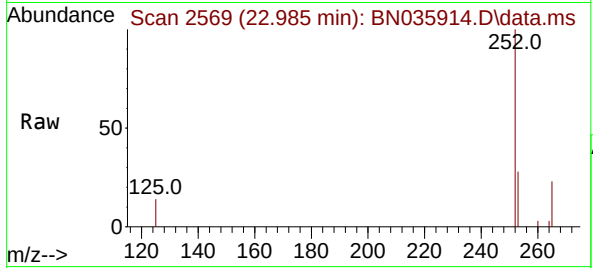




#37
Benzo(b)fluoranthene
Concen: 0.384 ng
RT: 22.985 min Scan# 21
Delta R.T. -0.013 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

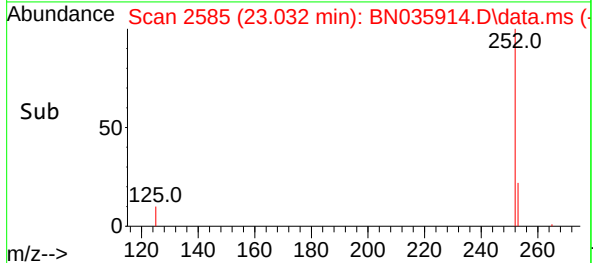
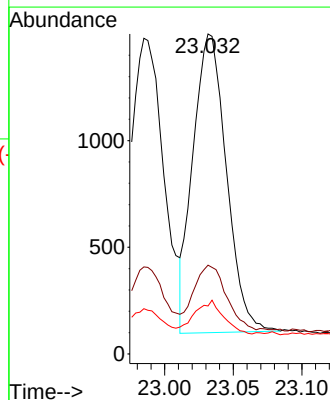
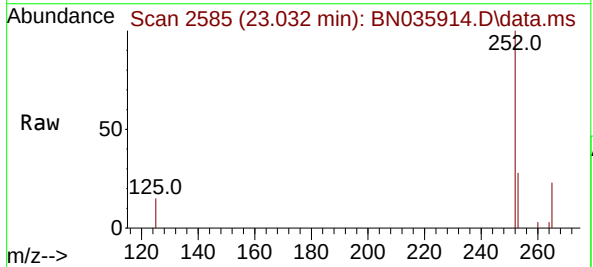
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

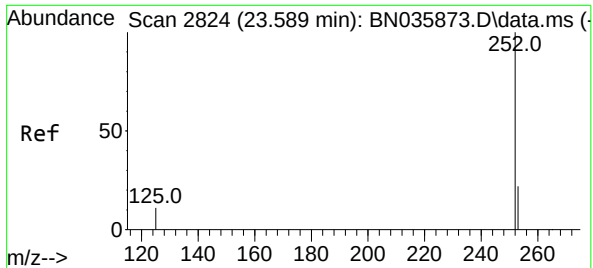
Tgt Ion:252 Resp: 2444
Ion Ratio Lower Upper
252 100
253 27.6 20.1 30.1
125 14.3 9.9 14.9



#38
Benzo(k)fluoranthene
Concen: 0.377 ng
RT: 23.032 min Scan# 2585
Delta R.T. -0.013 min
Lab File: BN035914.D
Acq: 13 Jan 2025 10:07

Tgt Ion:252 Resp: 2370
Ion Ratio Lower Upper
252 100
253 27.7 20.5 30.7
125 15.0 10.6 16.0





#39

Benzo(a)pyrene

Concen: 0.389 ng

RT: 23.581 min Scan# 21

Delta R.T. -0.008 min

Lab File: BN035914.D

Acq: 13 Jan 2025 10:07

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

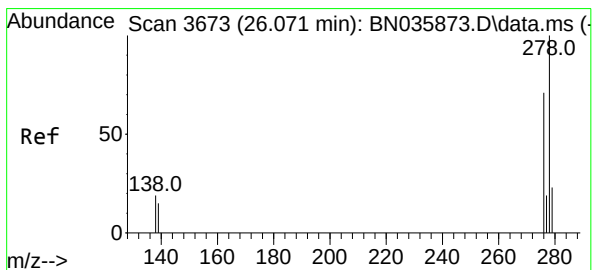
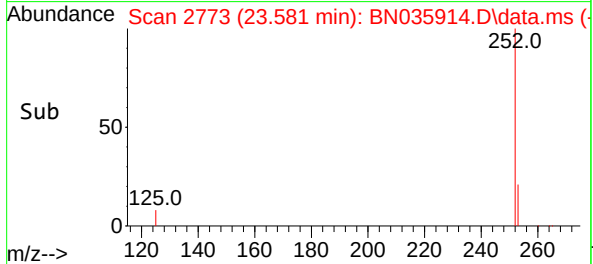
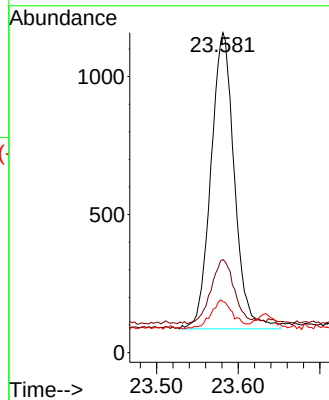
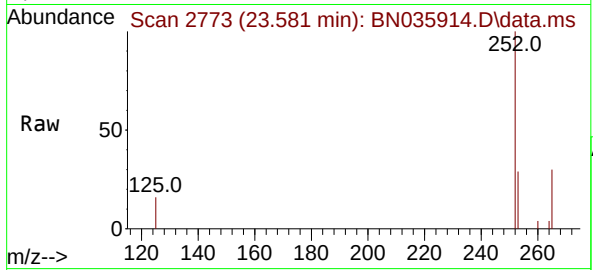
Tgt Ion:252 Resp: 2142

Ion Ratio Lower Upper

252 100

253 29.1 21.5 32.3

125 16.0 12.6 19.0



#40

Dibenzo(a,h)anthracene

Concen: 0.389 ng

RT: 26.052 min Scan# 3618

Delta R.T. -0.019 min

Lab File: BN035914.D

Acq: 13 Jan 2025 10:07

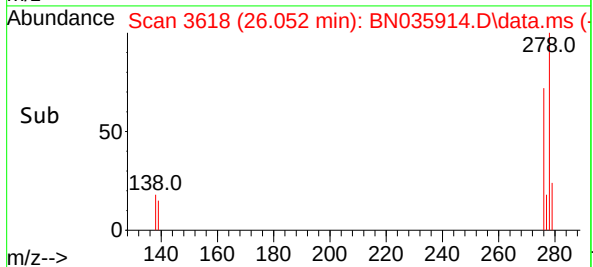
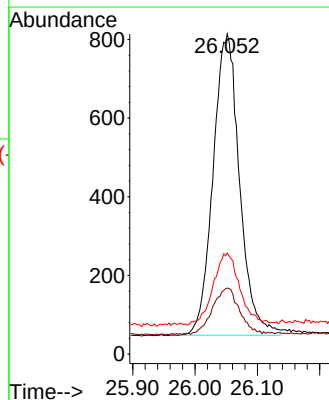
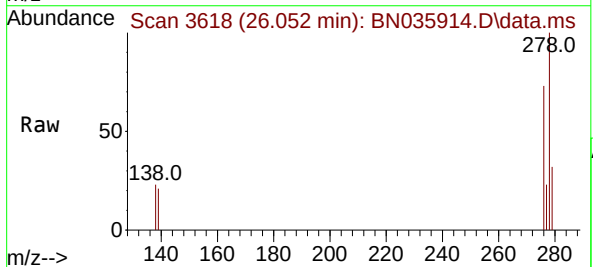
Tgt Ion:278 Resp: 2259

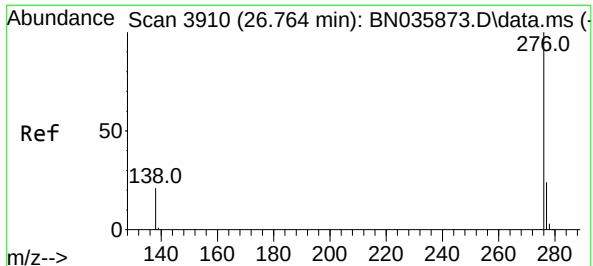
Ion Ratio Lower Upper

278 100

139 20.6 15.9 23.9

279 31.6 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 0.393 ng

RT: 26.745 min Scan# 3855

Delta R.T. -0.019 min

Lab File: BN035914.D

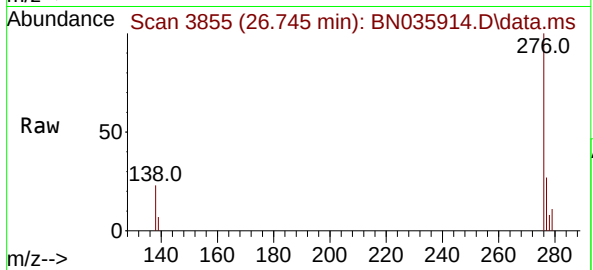
Acq: 13 Jan 2025 10:07

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



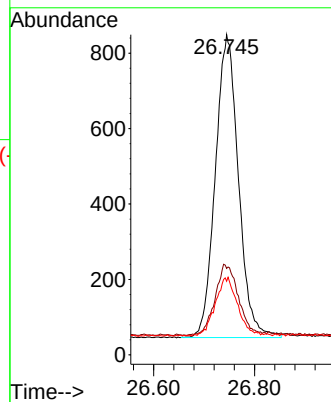
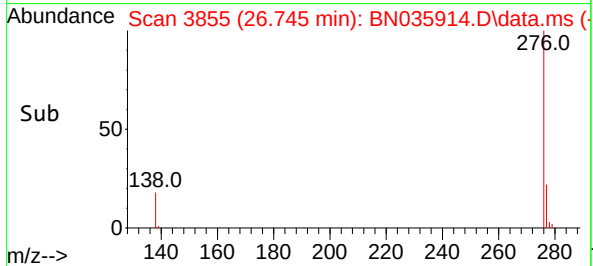
Tgt Ion:276 Resp: 2552

Ion Ratio Lower Upper

276 100

277 27.0 22.8 34.2

138 23.0 20.1 30.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011325\
 Data File : BN035914.D
 Acq On : 13 Jan 2025 10:07
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jan 13 11:08:39 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 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	0.397	0.435	-9.6	115	0.00
3	n-Nitrosodimethylamine	0.693	0.822	-18.6	120	-0.01
4 S	2-Fluorophenol	0.981	0.937	4.5	97	-0.01
5 S	Phenol-d6	1.219	1.133	7.1	95	0.00
6	bis(2-Chloroethyl)ether	0.929	0.914	1.6	96	-0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	88	0.00
8 S	Nitrobenzene-d5	0.317	0.355	-12.0	105	-0.01
9	Naphthalene	1.123	1.105	1.6	89	-0.01
10	Hexachlorobutadiene	0.365	0.370	-1.4	92	0.00
11 SURR	2-Methylnaphthalene-d10	0.536	0.496	7.5	83	0.00
12	2-Methylnaphthalene	0.695	0.658	5.3	85	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	76	0.00
14 S	2,4,6-Tribromophenol	0.192	0.220	-14.6	88	-0.01
15 S	2-Fluorobiphenyl	1.755	1.826	-4.0	81	0.00
16	Acenaphthylene	1.884	1.874	0.5	78	0.00
17	Acenaphthene	1.235	1.254	-1.5	79	0.00
18	Fluorene	1.359	1.267	6.8	73	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	71	-0.01
20	4,6-Dinitro-2-methylphenol	0.069	0.106	-53.6#	112	0.00
21	4-Bromophenyl-phenylether	0.274	0.279	-1.8	73	-0.01
22	Hexachlorobenzene	0.374	0.358	4.3	71	0.00
23	Atrazine	0.184	0.169	8.2	68	0.00
24	Pentachlorophenol	0.132	0.158	-19.7	94	0.00
25	Phenanthrene	1.167	1.119	4.1	69	-0.01
26	Anthracene	1.062	1.007	5.2	70	0.00
27 SURR	Fluoranthene-d10	0.993	0.914	8.0	66	0.00
28	Fluoranthene	1.361	1.235	9.3	66	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	66	0.00
30	Pyrene	1.624	1.598	1.6	67	0.00
31 S	Terphenyl-d14	0.797	0.760	4.6	63	0.00
32	Benzo(a)anthracene	1.410	1.386	1.7	68	0.00
33	Chrysene	1.475	1.448	1.8	66	0.00
34	Bis(2-ethylhexyl)phthalate	0.574	0.603	-5.1	68	0.00
35 I	Perylene-d12	1.000	1.000	0.0	71	-0.01
36	Indeno(1,2,3-cd)pyrene	1.577	1.547	1.9	77	-0.02
37	Benzo(b)fluoranthene	1.374	1.320	3.9	72	-0.01
38	Benzo(k)fluoranthene	1.360	1.280	5.9	72	-0.01
39 C	Benzo(a)pyrene	1.190	1.157	2.8	75	0.00
40	Dibenzo(a,h)anthracene	1.255	1.220	2.8	78	-0.02
41	Benzo(g,h,i)perylene	1.403	1.379	1.7	78	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011325\
Data File : BN035914.D
Acq On : 13 Jan 2025 10:07
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jan 13 11:08:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 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	0.438	-9.5	115	0.00
3	n-Nitrosodimethylamine	0.400	0.474	-18.5	120	-0.01
4 S	2-Fluorophenol	0.400	0.382	4.5	97	-0.01
5 S	Phenol-d6	0.400	0.372	7.0	95	0.00
6	bis(2-Chloroethyl)ether	0.400	0.394	1.5	96	-0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	88	0.00
8 S	Nitrobenzene-d5	0.400	0.448	-12.0	105	-0.01
9	Naphthalene	0.400	0.394	1.5	89	-0.01
10	Hexachlorobutadiene	0.400	0.406	-1.5	92	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.370	7.5	83	0.00
12	2-Methylnaphthalene	0.400	0.379	5.3	85	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	76	0.00
14 S	2,4,6-Tribromophenol	0.400	0.458	-14.5	88	-0.01
15 S	2-Fluorobiphenyl	0.400	0.416	-4.0	81	0.00
16	Acenaphthylene	0.400	0.398	0.5	78	0.00
17	Acenaphthene	0.400	0.406	-1.5	79	0.00
18	Fluorene	0.400	0.373	6.8	73	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	71	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.613	-53.2#	112	0.00
21	4-Bromophenyl-phenylether	0.400	0.407	-1.7	73	-0.01
22	Hexachlorobenzene	0.400	0.382	4.5	71	0.00
23	Atrazine	0.400	0.368	8.0	68	0.00
24	Pentachlorophenol	0.400	0.478	-19.5	94	0.00
25	Phenanthrene	0.400	0.383	4.3	69	-0.01
26	Anthracene	0.400	0.379	5.3	70	0.00
27 SURR	Fluoranthene-d10	0.400	0.368	8.0	66	0.00
28	Fluoranthene	0.400	0.363	9.3	66	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	66	0.00
30	Pyrene	0.400	0.393	1.8	67	0.00
31 S	Terphenyl-d14	0.400	0.381	4.8	63	0.00
32	Benzo(a)anthracene	0.400	0.393	1.8	68	0.00
33	Chrysene	0.400	0.393	1.8	66	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.420	-5.0	68	0.00
35 I	Perylene-d12	0.400	0.400	0.0	71	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.392	2.0	77	-0.02
37	Benzo(b)fluoranthene	0.400	0.384	4.0	72	-0.01
38	Benzo(k)fluoranthene	0.400	0.377	5.8	72	-0.01
39 C	Benzo(a)pyrene	0.400	0.389	2.8	75	0.00
40	Dibenzo(a,h)anthracene	0.400	0.389	2.8	78	-0.02
41	Benzo(g,h,i)perylene	0.400	0.393	1.8	78	-0.02

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1040 SAS No.: Q1040 SDG No.: Q1040

Instrument ID: BNA_N Calibration Date/Time: 01/13/2025 12:37

Lab File ID: BN035918.D Init. Calib. Date(s): 01/02/2025 01/02/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:28 15:04

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.536	0.510		-4.9	50.0
Fluoranthene-d10	0.993	1.002		0.9	50.0
2-Fluorophenol	0.981	0.917		-6.5	50.0
Phenol-d6	1.219	1.099		-9.8	50.0
Nitrobenzene-d5	0.317	0.338		6.6	50.0
2-Fluorobiphenyl	1.755	1.756		0.1	50.0
2,4,6-Tribromophenol	0.192	0.251		30.7	50.0
Terphenyl-d14	0.797	0.778		-2.4	50.0
1,4-Dioxane	0.397	0.342		-13.9	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011325\
 Data File : BN035918.D
 Acq On : 13 Jan 2025 12:37
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Jan 13 13:14:52 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

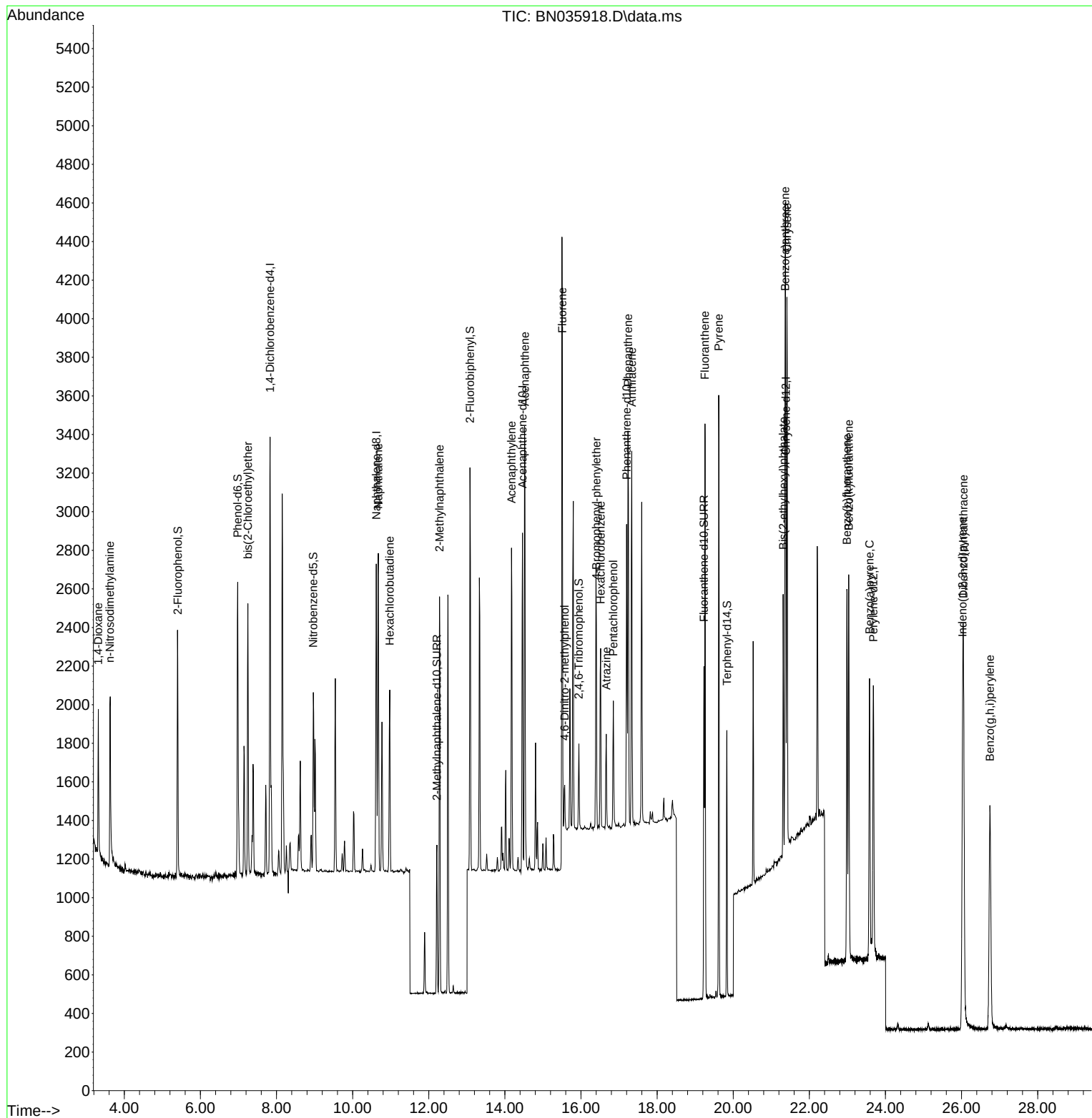
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.832	152	1057	0.400	ng	0.00
7) Naphthalene-d8	10.622	136	1958	0.400	ng	0.00
13) Acenaphthene-d10	14.463	164	980	0.400	ng	0.00
19) Phenanthrene-d10	17.199	188	1931	0.400	ng	-0.01
29) Chrysene-d12	21.385	240	1681	0.400	ng	# 0.00
35) Perylene-d12	23.683	264	1895	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.405	112	969	0.374	ng	0.00
5) Phenol-d6	6.979	99	1162	0.361	ng	0.00
8) Nitrobenzene-d5	8.967	82	662	0.427	ng	-0.01
11) 2-Methylnaphthalene-d10	12.213	152	998	0.381	ng	0.00
14) 2,4,6-Tribromophenol	15.945	330	246	0.523	ng	-0.01
15) 2-Fluorobiphenyl	13.084	172	1721	0.400	ng	0.00
27) Fluoranthene-d10	19.230	212	1935	0.404	ng	0.00
31) Terphenyl-d14	19.834	244	1308	0.390	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.318	88	362	0.345	ng	93
3) n-Nitrosodimethylamine	3.621	42	836	0.456	ng	# 83
6) bis(2-Chloroethyl)ether	7.247	93	889	0.362	ng	95
9) Naphthalene	10.675	128	2184	0.397	ng	99
10) Hexachlorobutadiene	10.974	225	780	0.437	ng	# 95
12) 2-Methylnaphthalene	12.284	142	1330	0.391	ng	98
16) Acenaphthylene	14.174	152	1836	0.398	ng	99
17) Acenaphthene	14.527	154	1237	0.409	ng	96
18) Fluorene	15.511	166	1301	0.391	ng	99
20) 4,6-Dinitro-2-methylph...	15.573	198	214	0.638	ng	# 74
21) 4-Bromophenyl-phenylether	16.404	248	566	0.428	ng	# 77
22) Hexachlorobenzene	16.516	284	745	0.413	ng	97
23) Atrazine	16.665	200	387	0.436	ng	# 92
24) Pentachlorophenol	16.851	266	311	0.487	ng	98
25) Phenanthrene	17.236	178	2258	0.401	ng	99
26) Anthracene	17.335	178	2078	0.405	ng	99
28) Fluoranthene	19.258	202	2609	0.397	ng	99
30) Pyrene	19.620	202	2705	0.396	ng	99
32) Benzo(a)anthracene	21.367	228	2384	0.402	ng	100
33) Chrysene	21.412	228	2378	0.384	ng	97
34) Bis(2-ethylhexyl)phtha...	21.313	149	1146	0.475	ng	98
36) Indeno(1,2,3-cd)pyrene	26.028	276	2899	0.388	ng	95
37) Benzo(b)fluoranthene	22.988	252	2495	0.383	ng	97
38) Benzo(k)fluoranthene	23.034	252	2532	0.393	ng	97
39) Benzo(a)pyrene	23.581	252	2167	0.385	ng	97
40) Dibenzo(a,h)anthracene	26.049	278	2321	0.390	ng	96
41) Benzo(g,h,i)perylene	26.745	276	2537	0.382	ng	97

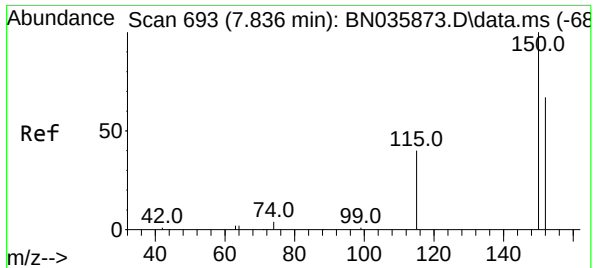
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011325\
Data File : BN035918.D
Acq On : 13 Jan 2025 12:37
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Jan 13 13:14:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

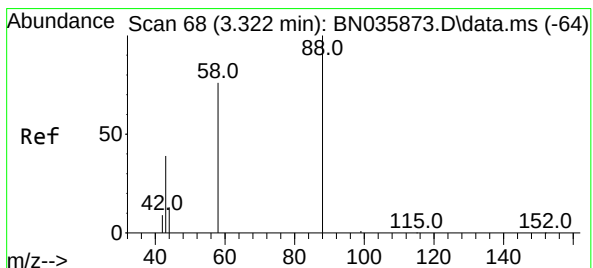
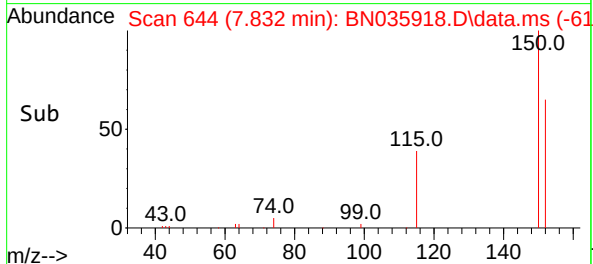
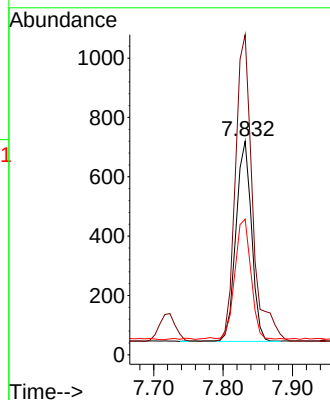
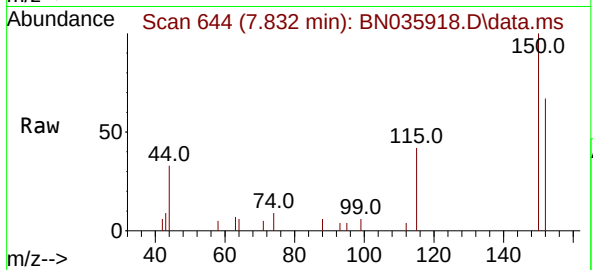




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.832 min Scan# 64
Delta R.T. -0.004 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

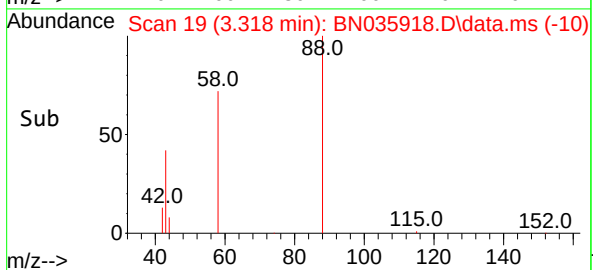
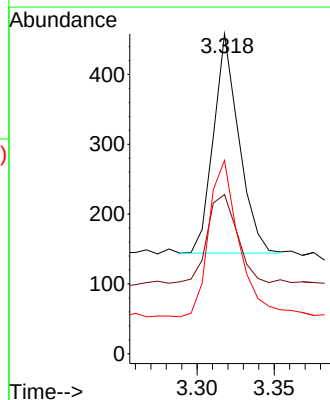
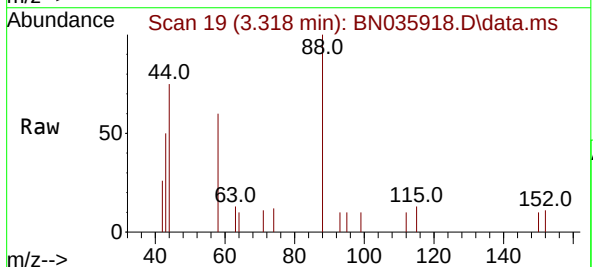
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1057
Ion Ratio Lower Upper
152 100
150 149.9 117.8 176.6
115 63.5 51.0 76.4

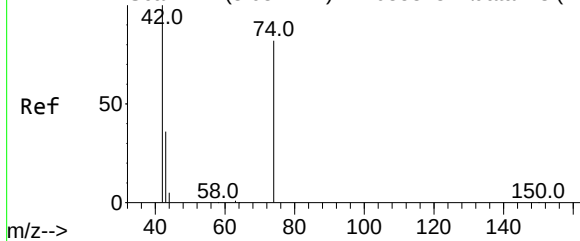


#2
1,4-Dioxane
Concen: 0.345 ng
RT: 3.318 min Scan# 19
Delta R.T. -0.004 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

Tgt Ion: 88 Resp: 362
Ion Ratio Lower Upper
88 100
43 47.0 32.7 49.1
58 83.4 63.0 94.4



Abundance Scan 111 (3.632 min): BN035873.D\data.ms (-10



#3

n-Nitrosodimethylamine

Concen: 0.456 ng

RT: 3.621 min Scan# 61

Delta R.T. -0.011 min

Lab File: BN035918.D

Acq: 13 Jan 2025 12:37

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion: 42 Resp: 836

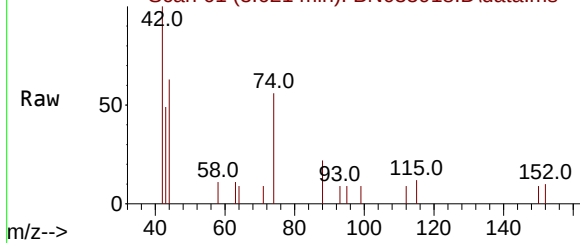
Ion Ratio Lower Upper

42 100

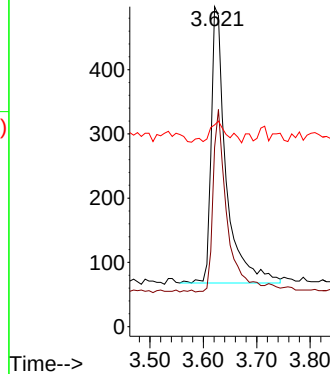
74 61.5 62.2 93.2#

44 9.1 7.1 10.7

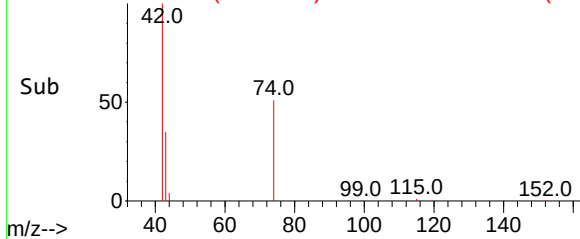
Abundance Scan 61 (3.621 min): BN035918.D\data.ms



Abundance

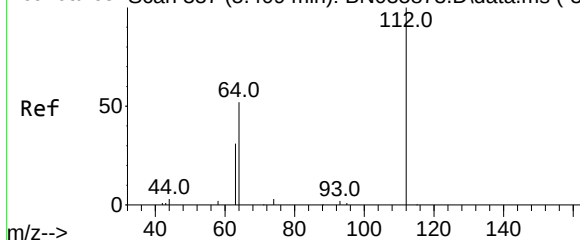


Abundance Scan 61 (3.621 min): BN035918.D\data.ms (-42)



Time-->

Abundance Scan 357 (5.409 min): BN035873.D\data.ms (-34



#4

2-Fluorophenol

Concen: 0.374 ng

RT: 5.405 min Scan# 308

Delta R.T. -0.004 min

Lab File: BN035918.D

Acq: 13 Jan 2025 12:37

Tgt Ion: 112 Resp: 969

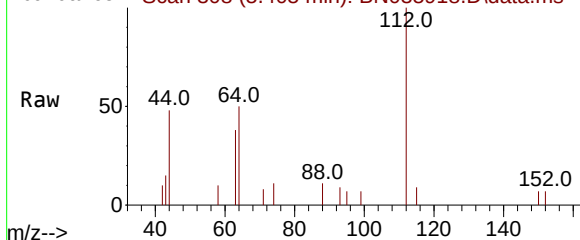
Ion Ratio Lower Upper

112 100

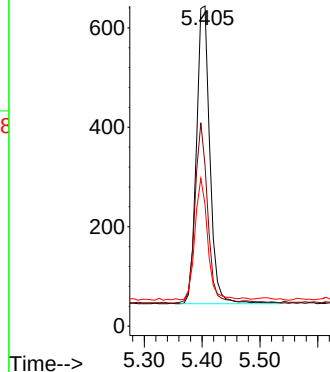
64 57.0 48.2 72.2

63 38.8 30.0 45.0

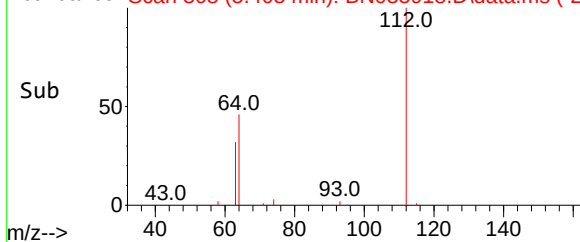
Abundance Scan 308 (5.405 min): BN035918.D\data.ms



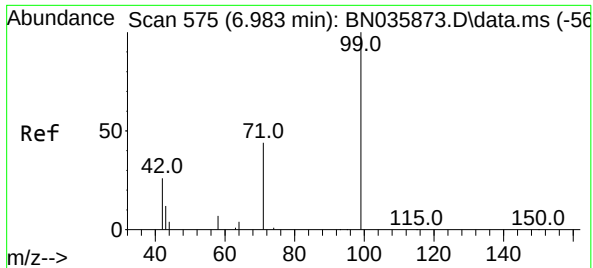
Abundance



Abundance Scan 308 (5.405 min): BN035918.D\data.ms (-28



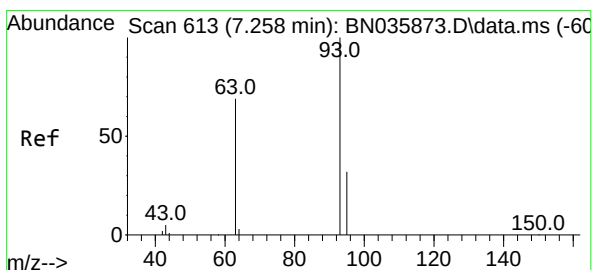
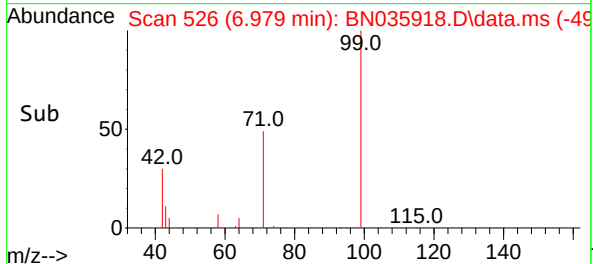
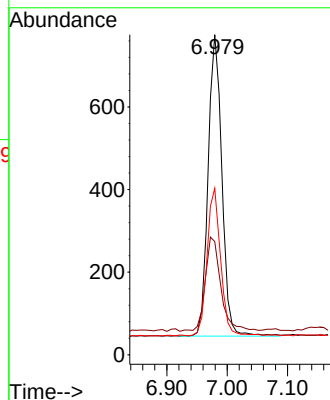
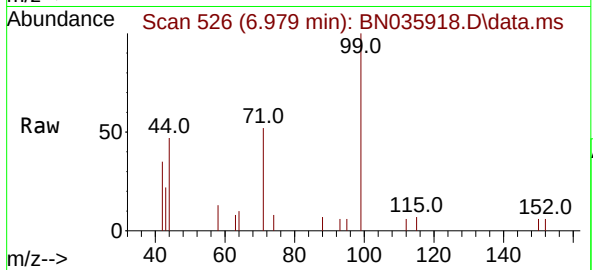
Time-->



#5
Phenol-d6
Concen: 0.361 ng
RT: 6.979 min Scan# 51
Delta R.T. -0.004 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

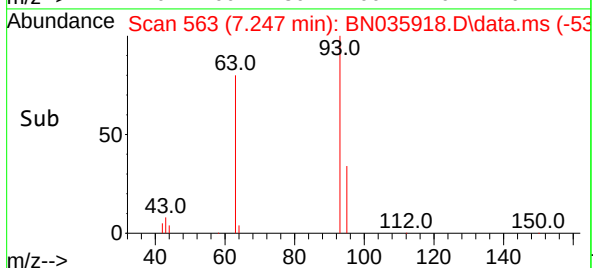
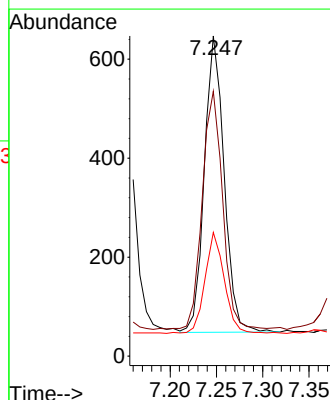
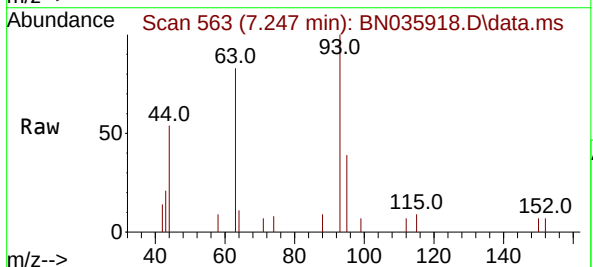
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

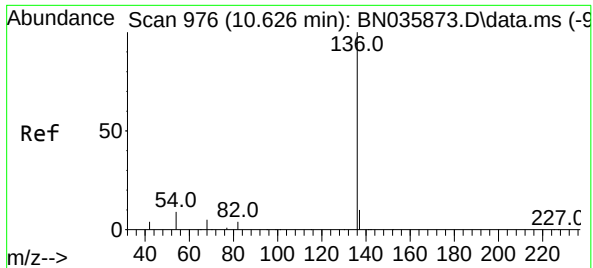
Tgt Ion: 99 Resp: 1162
Ion Ratio Lower Upper
99 100
42 34.0 23.5 35.3
71 48.1 35.5 53.3



#6
bis(2-Chloroethyl)ether
Concen: 0.362 ng
RT: 7.247 min Scan# 563
Delta R.T. -0.011 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

Tgt Ion: 93 Resp: 889
Ion Ratio Lower Upper
93 100
63 82.9 62.0 93.0
95 33.5 25.5 38.3

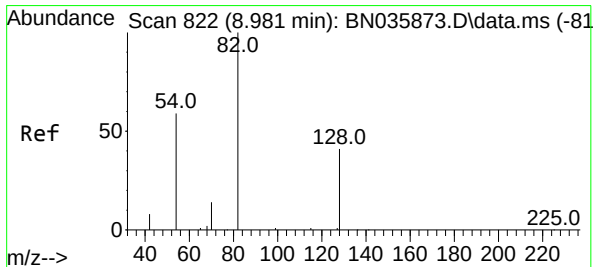
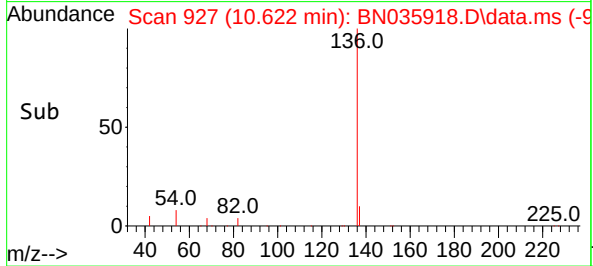
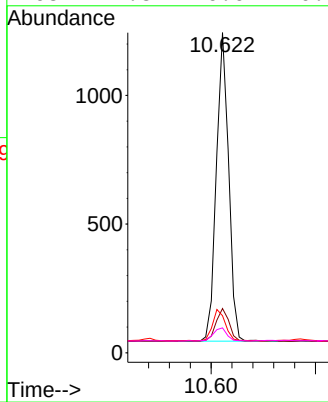
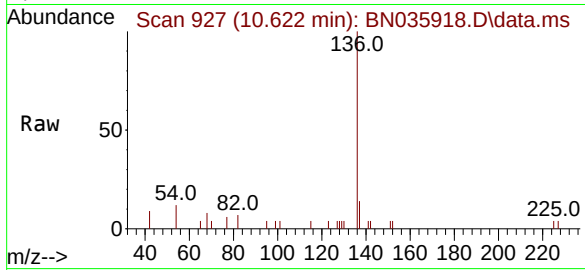




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.622 min Scan# 91
Delta R.T. -0.004 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

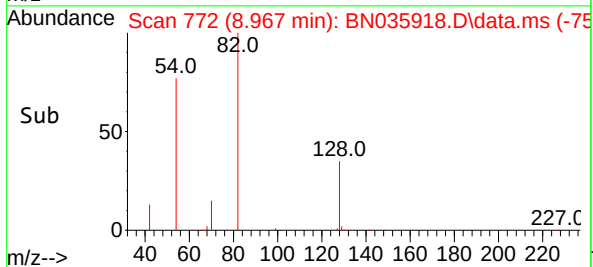
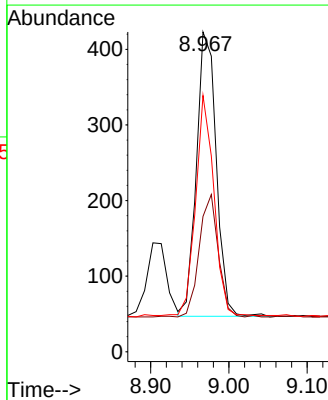
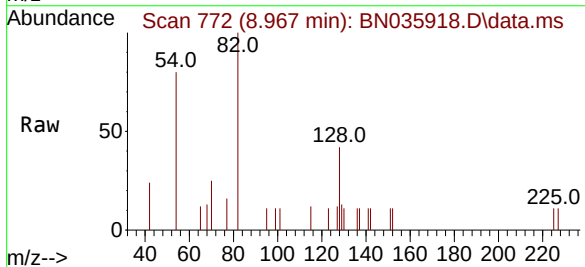
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

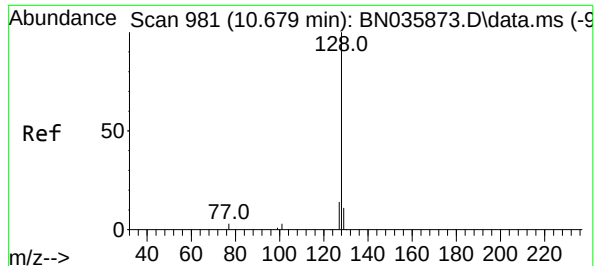
Tgt Ion:	136	Resp:	1958
Ion	Ratio	Lower	Upper
136	100		
137	13.8	10.6	15.8
54	11.6	9.8	14.6
68	7.8	6.6	10.0



#8
Nitrobenzene-d5
Concen: 0.427 ng
RT: 8.967 min Scan# 772
Delta R.T. -0.015 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

Tgt Ion:	82	Resp:	662
Ion	Ratio	Lower	Upper
82	100		
128	42.3	36.9	55.3
54	80.1	50.4	75.6





#9

Naphthalene

Concen: 0.397 ng

RT: 10.675 min Scan# 91

Delta R.T. -0.004 min

Lab File: BN035918.D

Acq: 13 Jan 2025 12:37

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

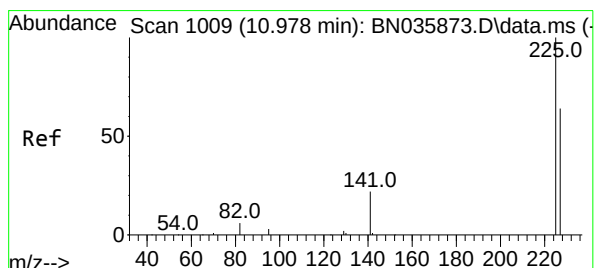
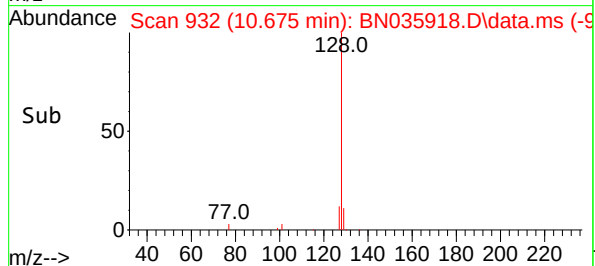
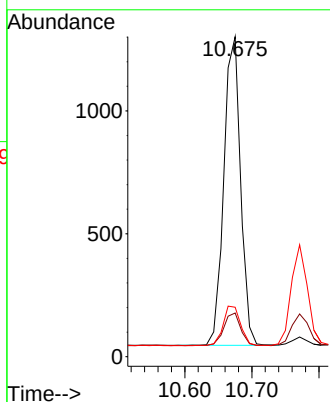
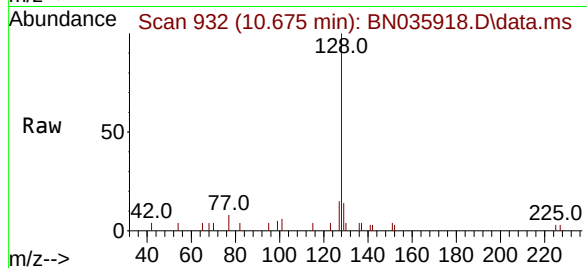
Tgt Ion:128 Resp: 2184

Ion Ratio Lower Upper

128 100

129 13.7 10.6 16.0

127 15.4 12.8 19.2



#10

Hexachlorobutadiene

Concen: 0.437 ng

RT: 10.974 min Scan# 960

Delta R.T. -0.004 min

Lab File: BN035918.D

Acq: 13 Jan 2025 12:37

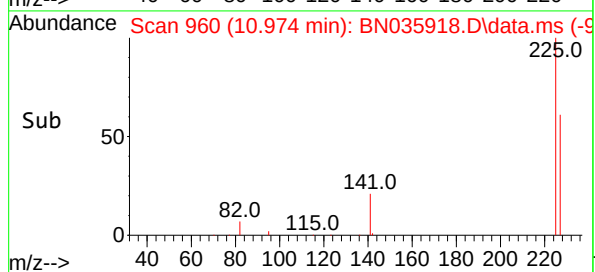
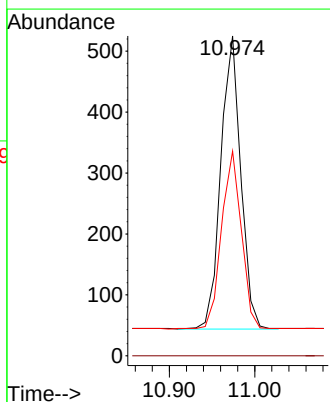
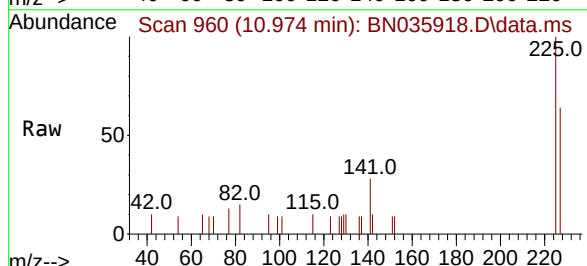
Tgt Ion:225 Resp: 780

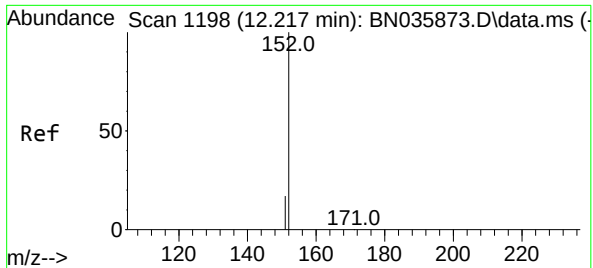
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 60.6 51.5 77.3

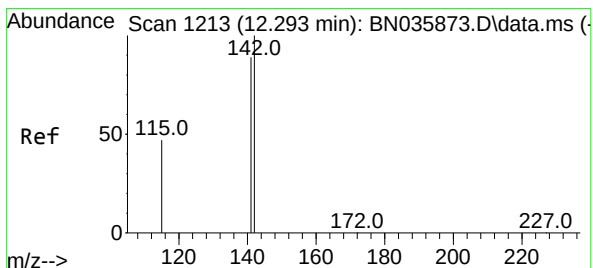
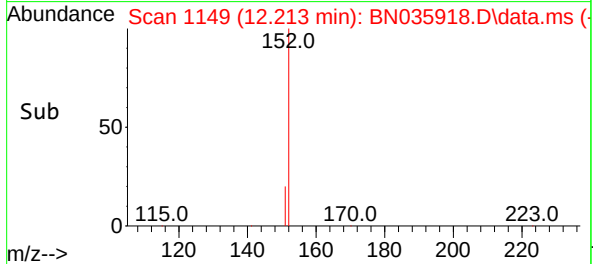
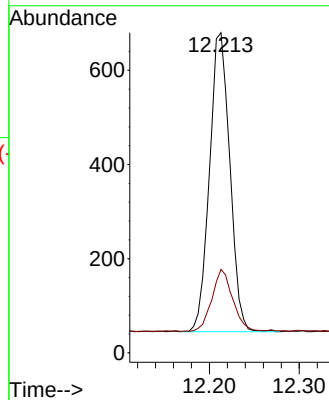
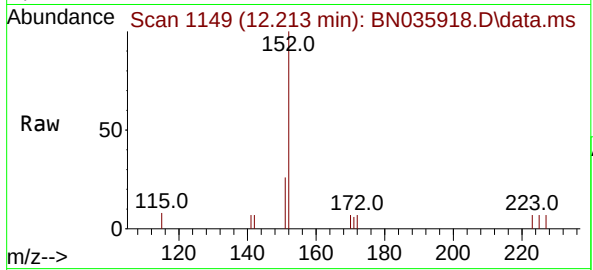




#11
2-Methylnaphthalene-d10
Concen: 0.381 ng
RT: 12.213 min Scan# 1163
Delta R.T. -0.004 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

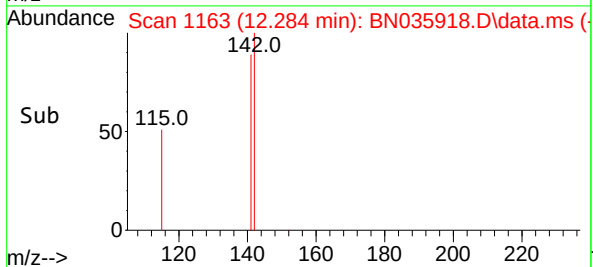
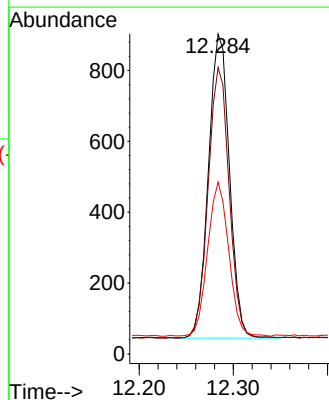
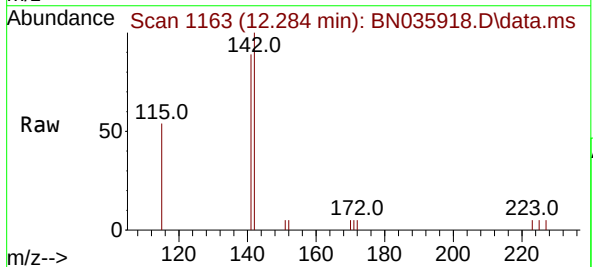
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

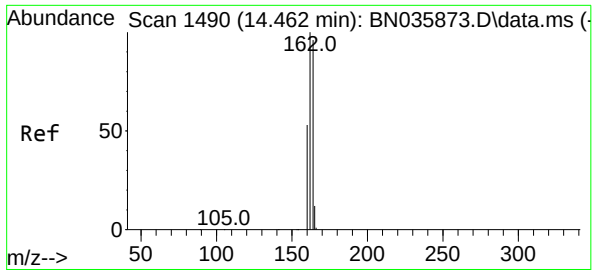
Tgt Ion:152 Resp: 998
Ion Ratio Lower Upper
152 100
151 21.0 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.391 ng
RT: 12.284 min Scan# 1163
Delta R.T. -0.009 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

Tgt Ion:142 Resp: 1330
Ion Ratio Lower Upper
142 100
141 89.5 71.9 107.9
115 53.7 39.6 59.4

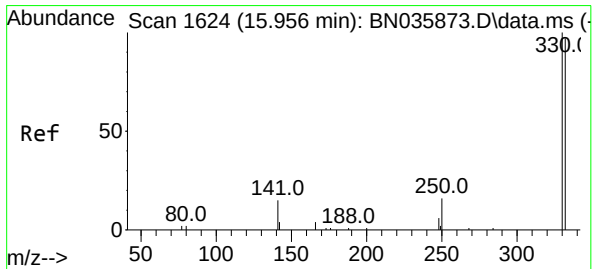
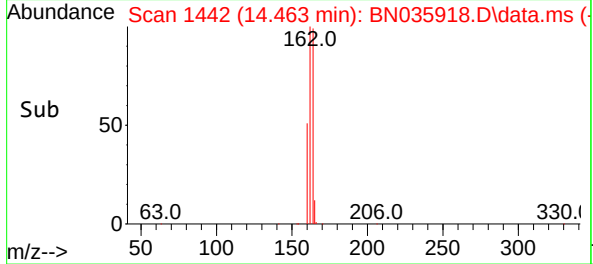
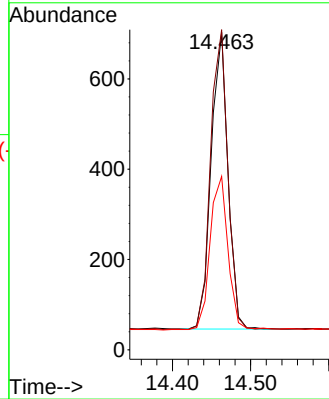
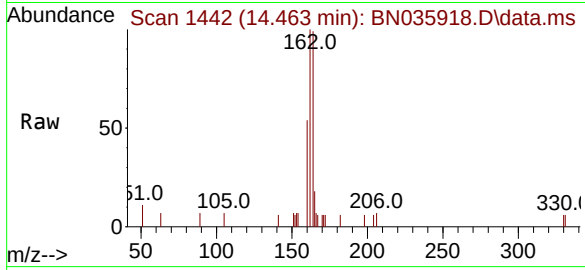




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.463 min Scan# 14
Delta R.T. 0.001 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

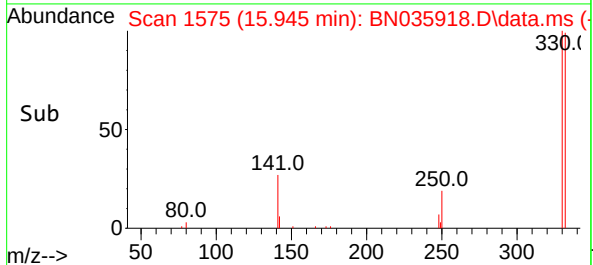
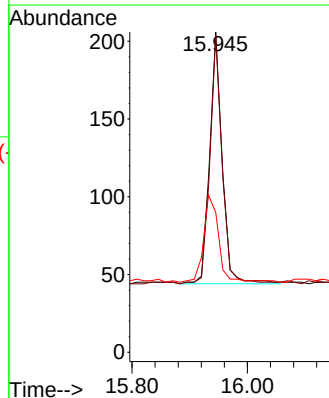
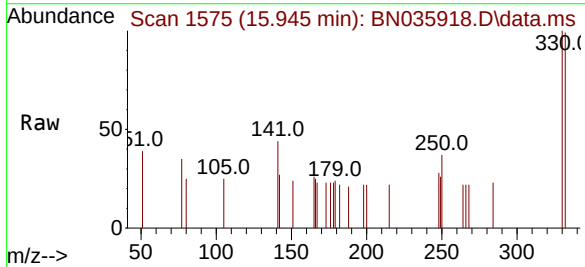
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

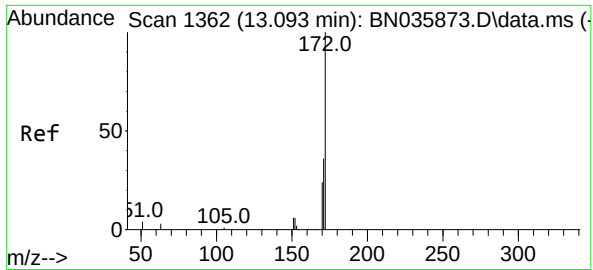
Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.9	83.1	124.7
160	54.6	46.0	69.0



#14
2,4,6-Tribromophenol
Concen: 0.523 ng
RT: 15.945 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.5	77.2	115.8
141	41.5	31.6	47.4

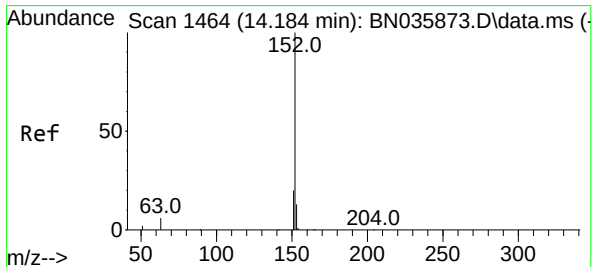
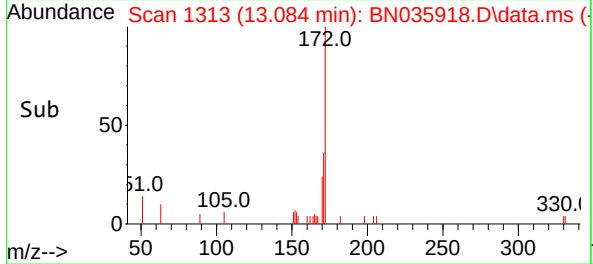
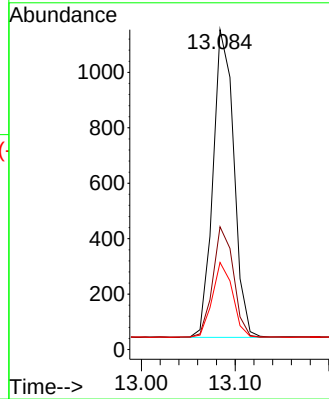
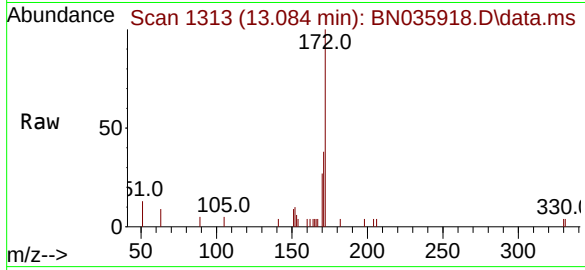




#15
2-Fluorobiphenyl
Concen: 0.400 ng
RT: 13.084 min Scan# 1412
Delta R.T. -0.010 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

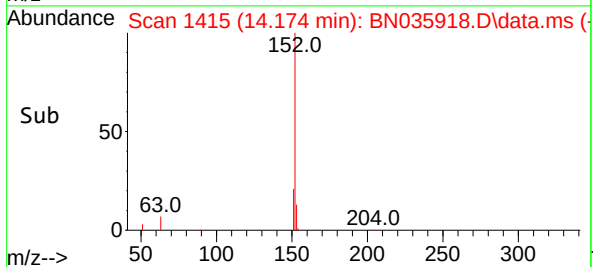
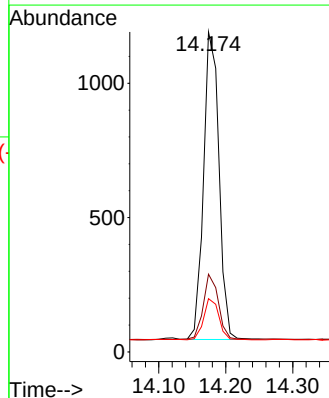
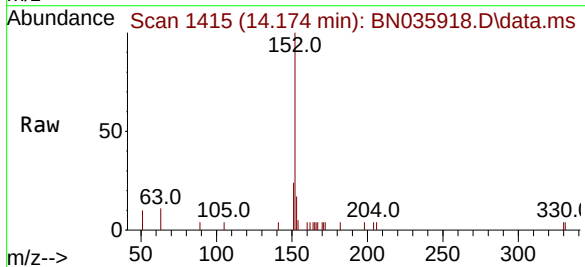
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

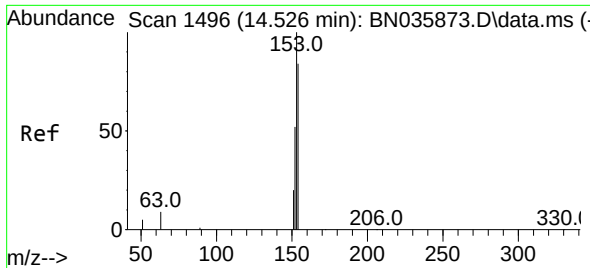
Tgt Ion:	172	Resp:	1721
Ion	Ratio	Lower	Upper
172	100		
171	38.4	30.5	45.7
170	27.2	20.8	31.2



#16
Acenaphthylene
Concen: 0.398 ng
RT: 14.174 min Scan# 1415
Delta R.T. -0.010 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

Tgt Ion:	152	Resp:	1836
Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.3	24.5
153	13.1	10.6	15.8

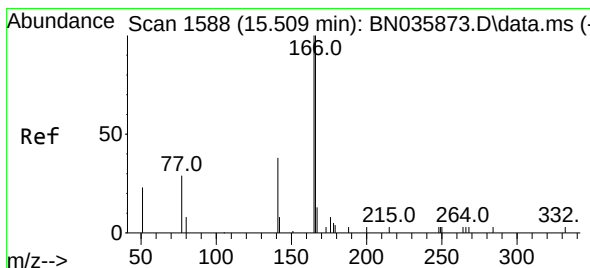
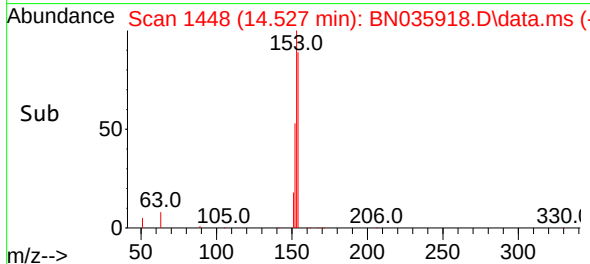
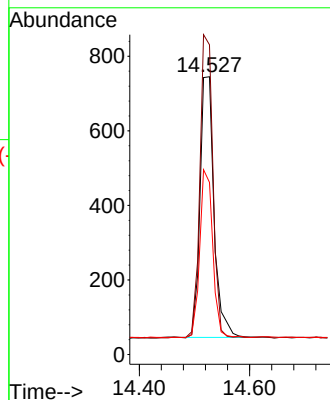
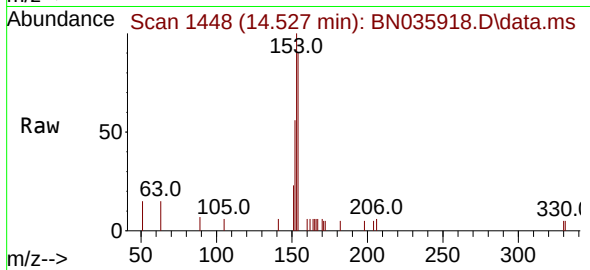




#17
Acenaphthene
Concen: 0.409 ng
RT: 14.527 min Scan# 14
Delta R.T. 0.001 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

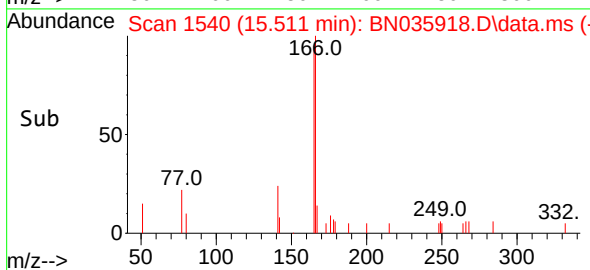
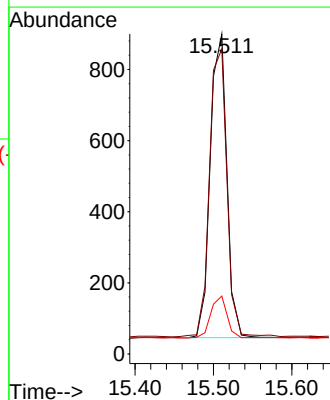
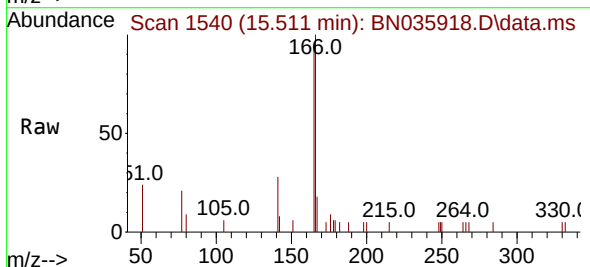
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

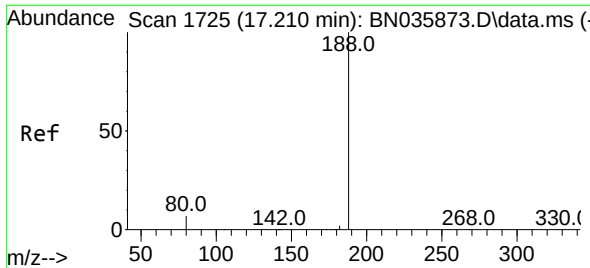
Tgt Ion	Ratio	Lower	Upper
154	100		
153	108.1	90.5	135.7
152	59.3	48.6	73.0



#18
Fluorene
Concen: 0.391 ng
RT: 15.511 min Scan# 1540
Delta R.T. 0.001 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.6	80.6	120.8
167	14.1	11.4	17.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.199 min Scan# 1

Delta R.T. -0.011 min

Lab File: BN035918.D

Acq: 13 Jan 2025 12:37

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

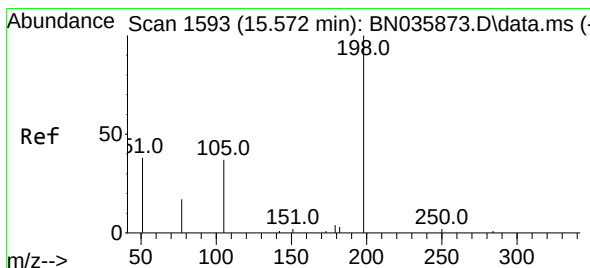
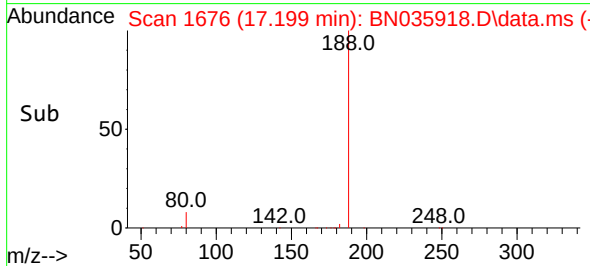
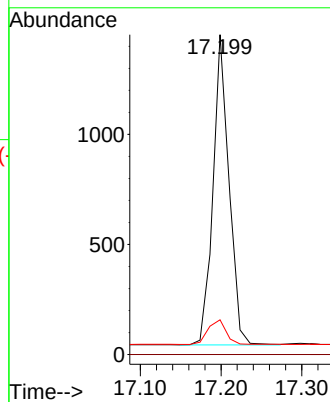
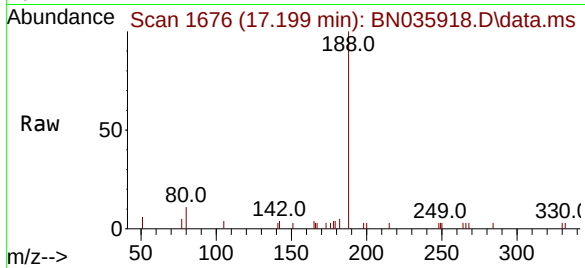
Tgt Ion:188 Resp: 1931

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.9 7.3 10.9



#20

4,6-Dinitro-2-methylphenol

Concen: 0.638 ng

RT: 15.573 min Scan# 1545

Delta R.T. 0.001 min

Lab File: BN035918.D

Acq: 13 Jan 2025 12:37

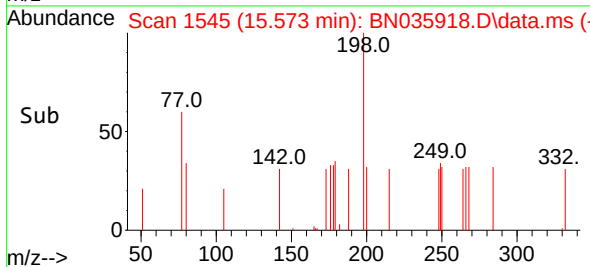
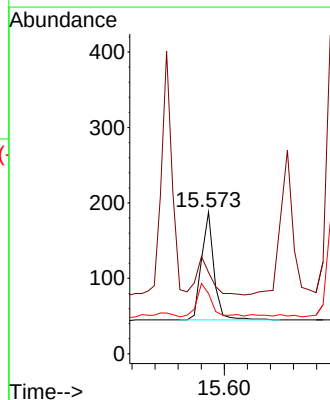
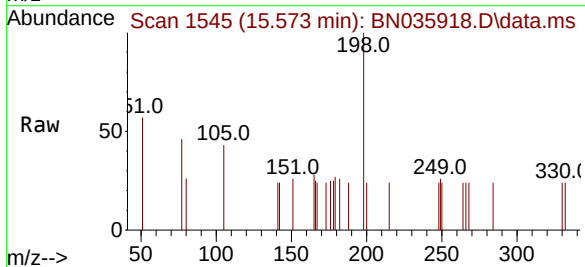
Tgt Ion:198 Resp: 214

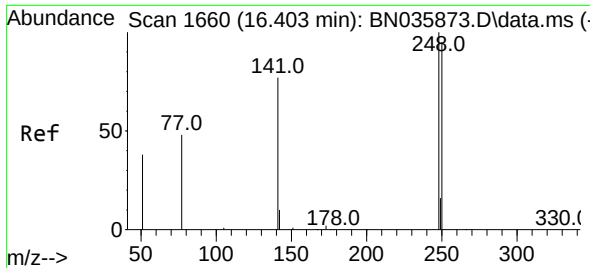
Ion Ratio Lower Upper

198 100

51 57.4 64.3 96.5#

105 42.6 50.0 75.0#

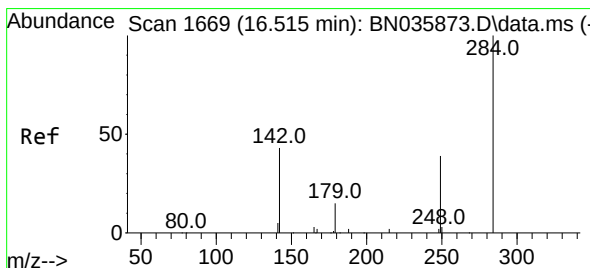
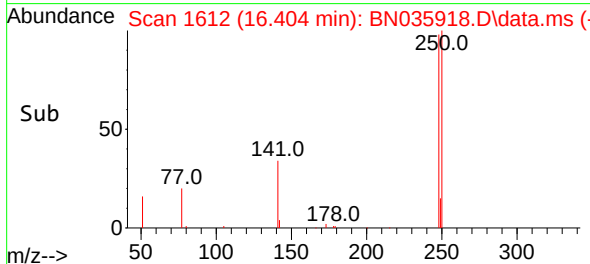
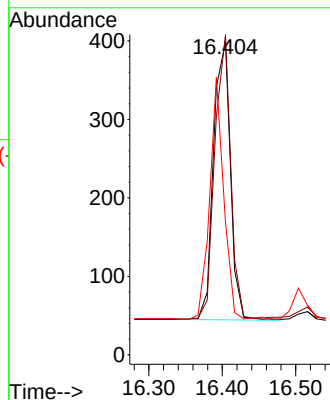
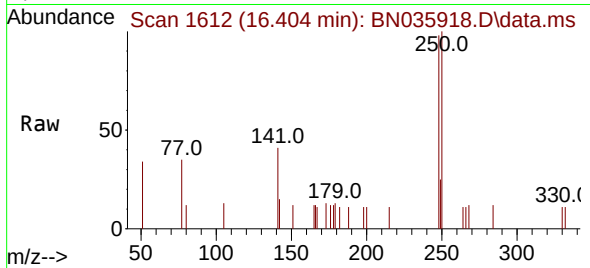




#21
4-Bromophenyl-phenylether
Concen: 0.428 ng
RT: 16.404 min Scan# 1612
Delta R.T. 0.001 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

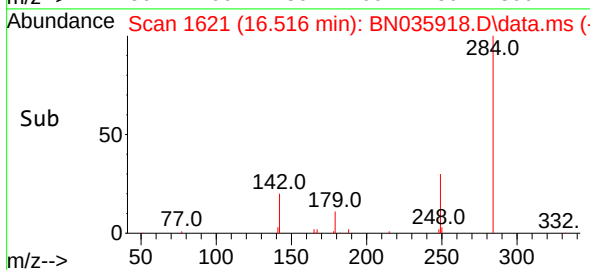
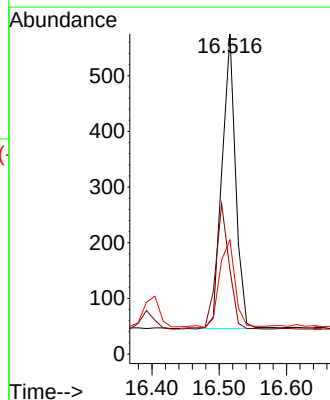
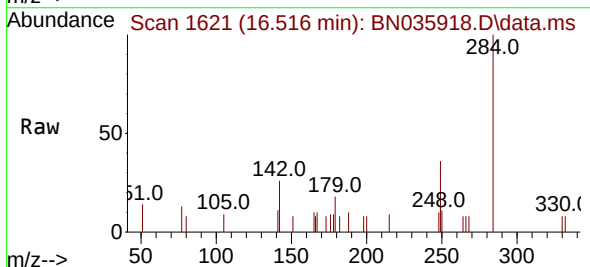
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

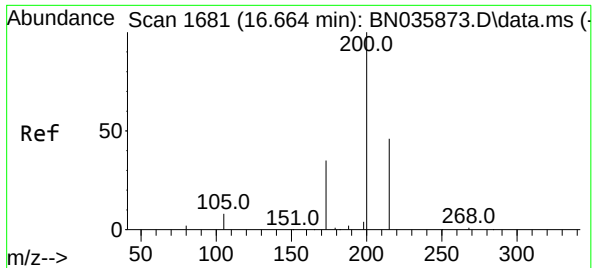
Tgt Ion	Ratio	Lower	Upper
248	100		
250	102.3	76.8	115.2
141	42.4	63.6	95.4



#22
Hexachlorobenzene
Concen: 0.413 ng
RT: 16.516 min Scan# 1621
Delta R.T. 0.001 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

Tgt Ion	Ratio	Lower	Upper
284	100		
142	41.5	31.4	47.0
249	33.7	27.8	41.8

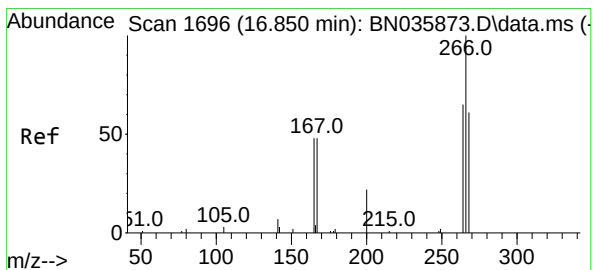
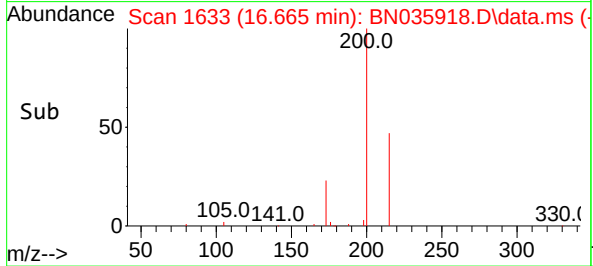
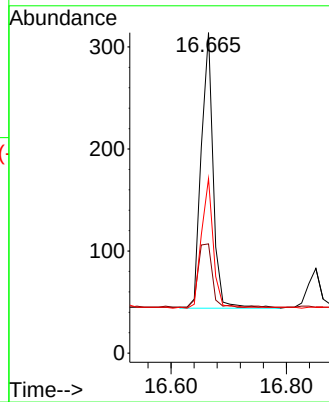
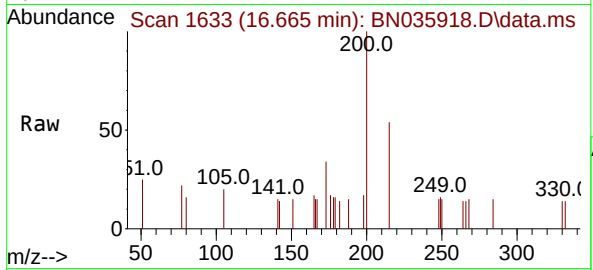




#23
Atrazine
Concen: 0.436 ng
RT: 16.665 min Scan# 1648
Delta R.T. 0.001 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

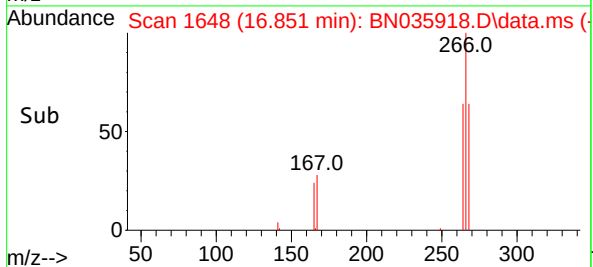
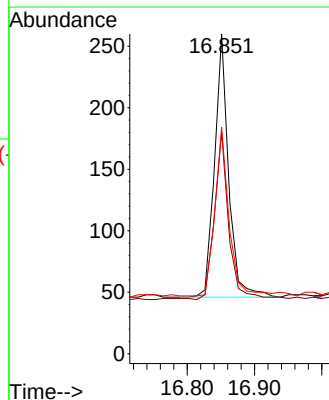
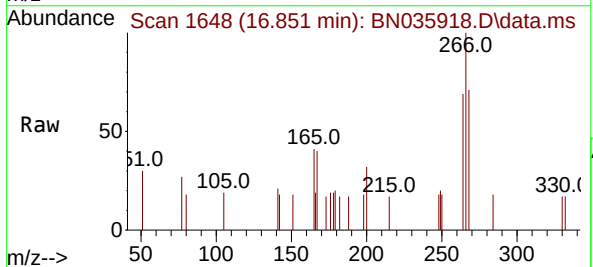
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

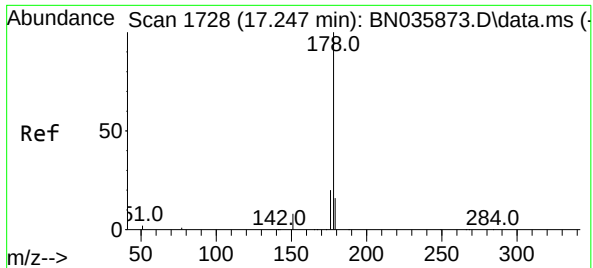
Tgt Ion:200 Resp: 387
Ion Ratio Lower Upper
200 100
173 34.1 35.4 53.0#
215 54.5 42.4 63.6



#24
Pentachlorophenol
Concen: 0.487 ng
RT: 16.851 min Scan# 1648
Delta R.T. 0.001 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

Tgt Ion:266 Resp: 311
Ion Ratio Lower Upper
266 100
264 61.7 49.9 74.9
268 65.3 50.2 75.2

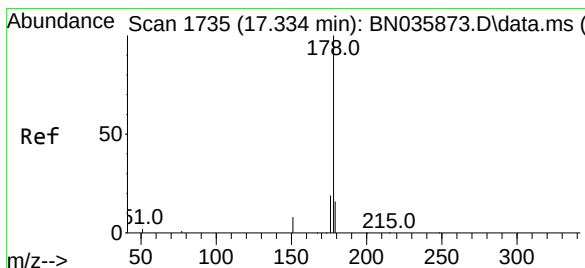
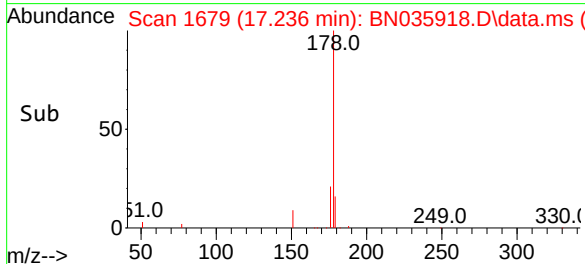
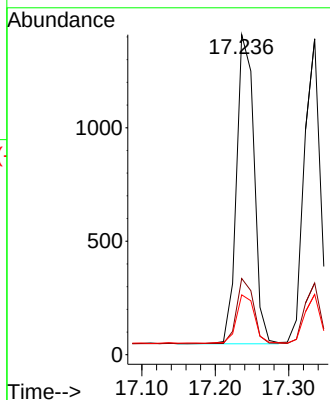
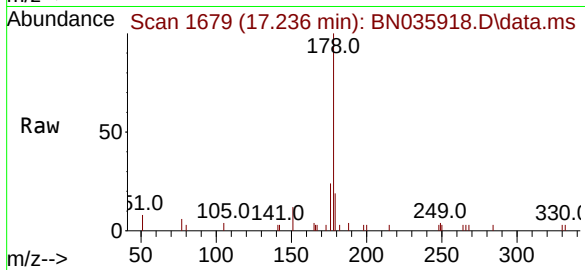




#25
Phenanthrene
Concen: 0.401 ng
RT: 17.236 min Scan# 1679
Delta R.T. -0.011 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

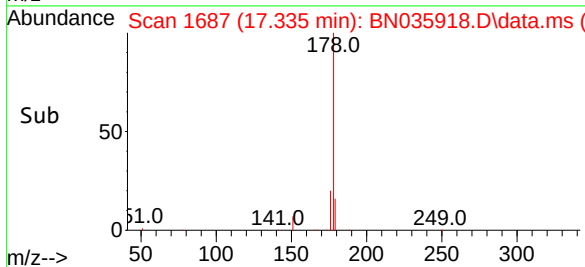
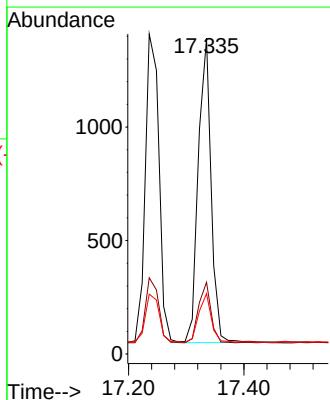
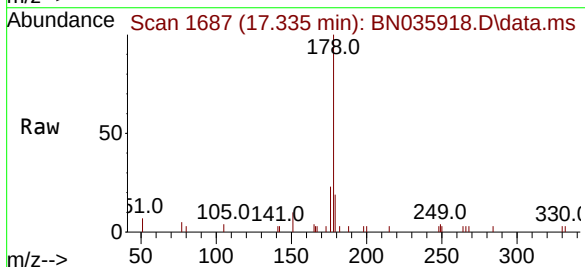
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

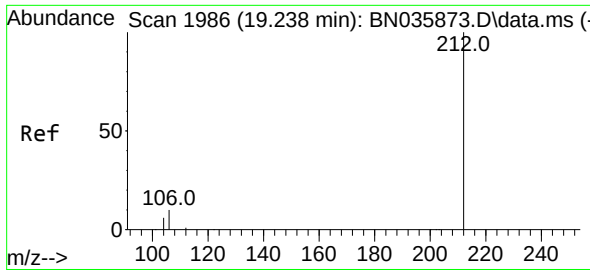
Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.7	15.9	23.9
179	15.9	12.9	19.3



#26
Anthracene
Concen: 0.405 ng
RT: 17.335 min Scan# 1687
Delta R.T. 0.001 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.0	22.6
179	16.0	13.0	19.6





#27

Fluoranthene-d10

Concen: 0.404 ng

RT: 19.230 min Scan# 1936

Delta R.T. -0.008 min

Lab File: BN035918.D

Acq: 13 Jan 2025 12:37

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

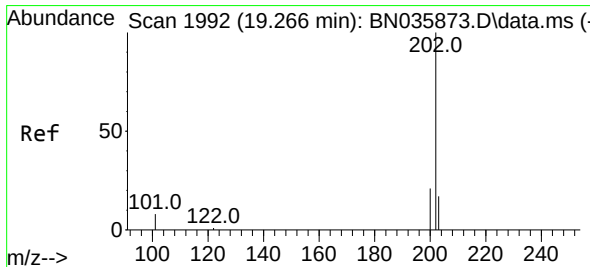
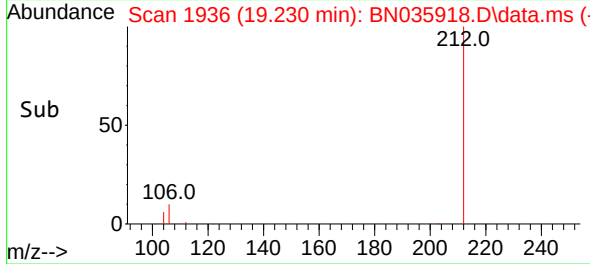
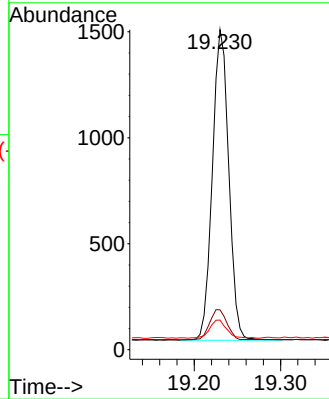
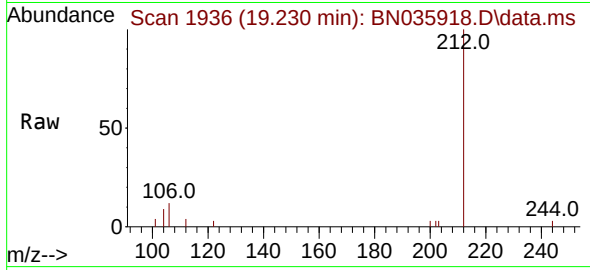
Tgt Ion:212 Resp: 1935

Ion Ratio Lower Upper

212 100

106 10.2 9.0 13.6

104 5.9 5.4 8.2



#28

Fluoranthene

Concen: 0.397 ng

RT: 19.258 min Scan# 1942

Delta R.T. -0.008 min

Lab File: BN035918.D

Acq: 13 Jan 2025 12:37

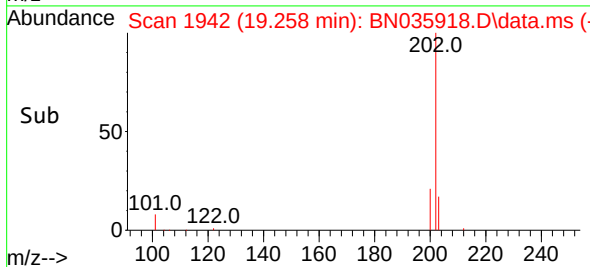
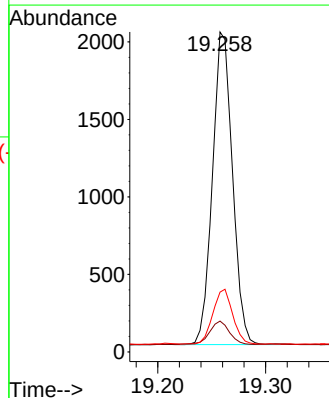
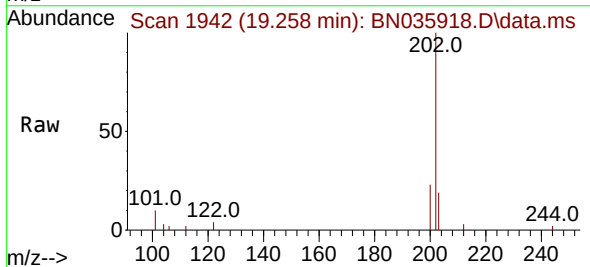
Tgt Ion:202 Resp: 2609

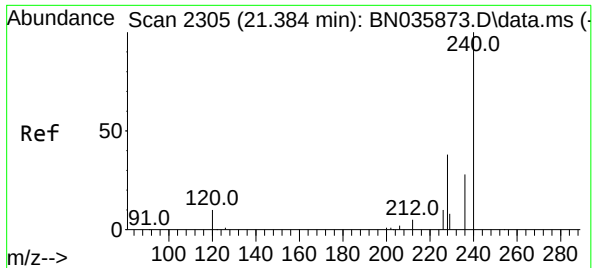
Ion Ratio Lower Upper

202 100

101 7.5 7.2 10.8

203 17.4 13.9 20.9

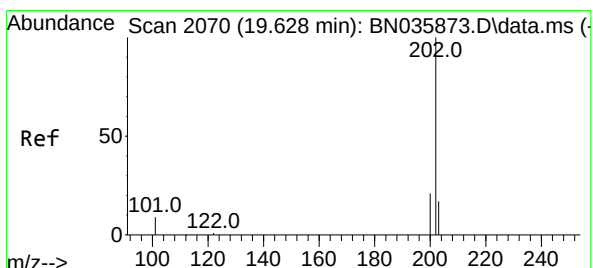
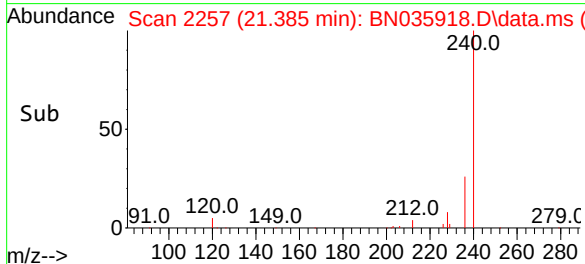
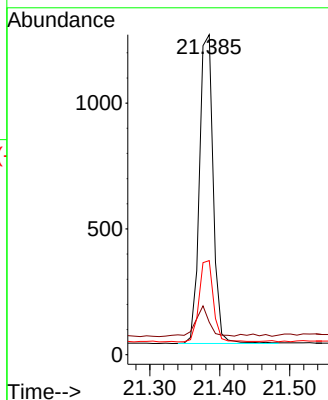
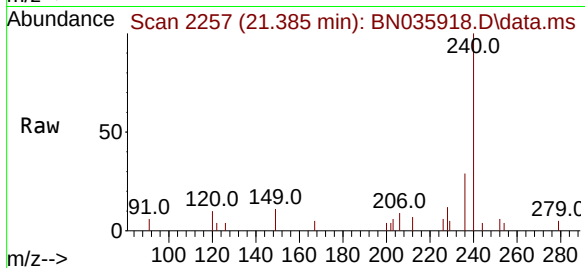




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.385 min Scan# 21
Delta R.T. 0.001 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

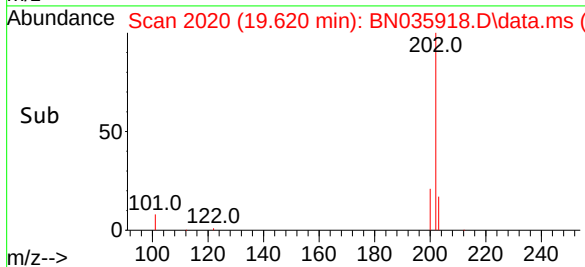
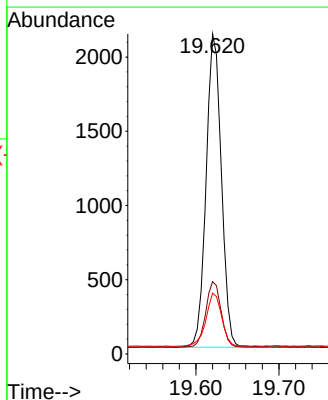
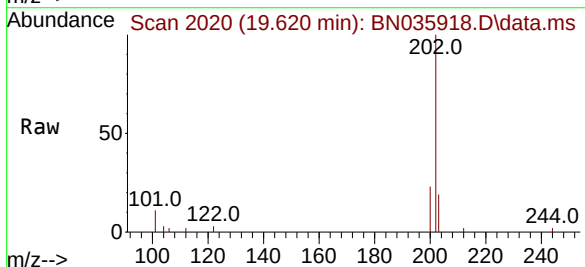
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

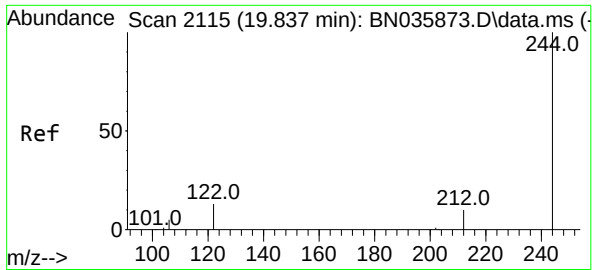
Tgt Ion:240 Resp: 1681
Ion Ratio Lower Upper
240 100
120 10.1 11.1 16.7#
236 29.4 24.6 36.8



#30
Pyrene
Concen: 0.396 ng
RT: 19.620 min Scan# 2020
Delta R.T. -0.008 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

Tgt Ion:202 Resp: 2705
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.6
203 17.4 14.6 22.0

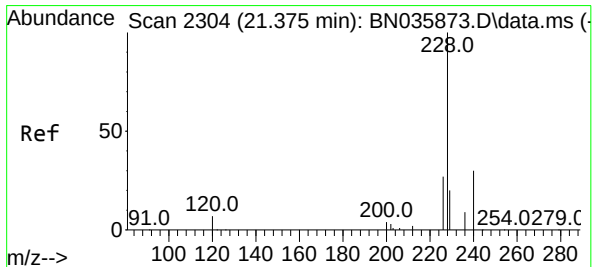
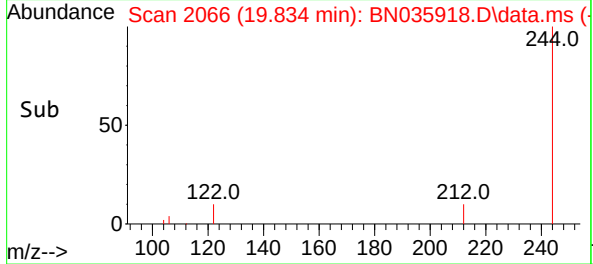
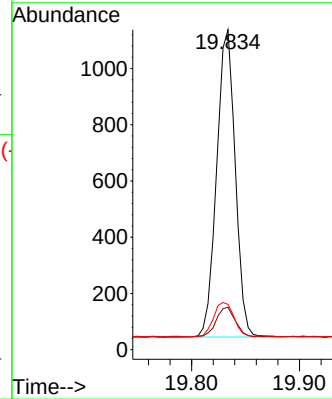
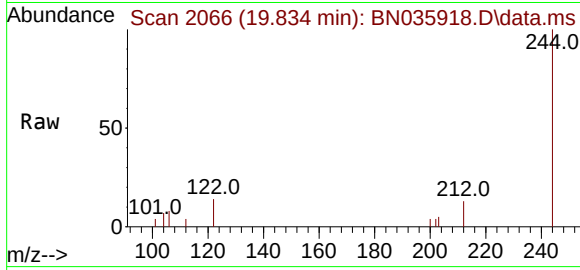




#31
Terphenyl-d14
Concen: 0.390 ng
RT: 19.834 min Scan# 2066
Delta R.T. -0.003 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

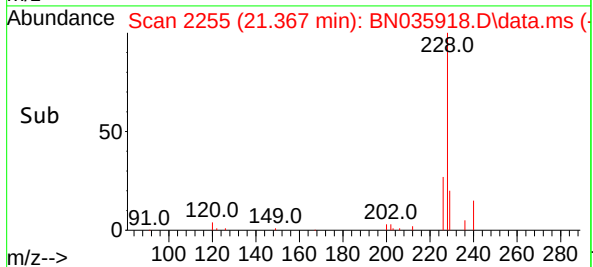
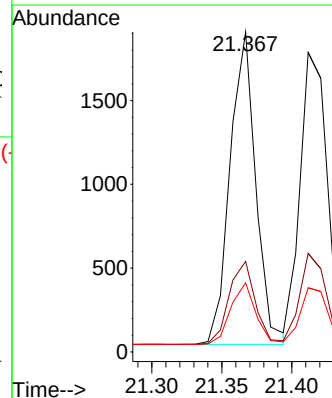
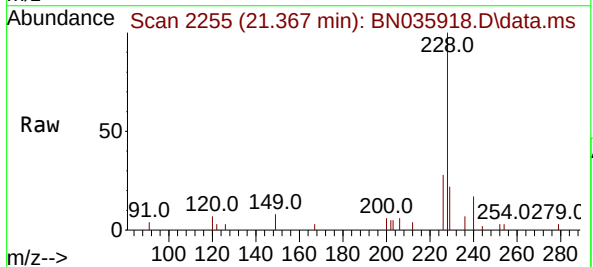
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

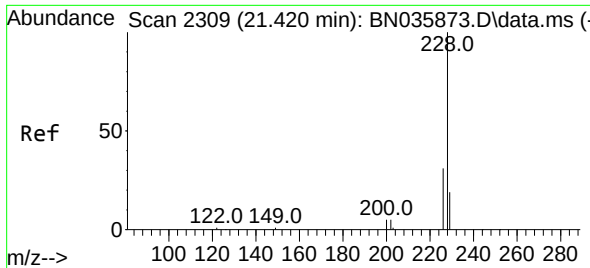
Tgt Ion	Ratio	Lower	Upper
244	100		
212	13.3	10.1	15.1
122	14.1	12.2	18.4



#32
Benzo(a)anthracene
Concen: 0.402 ng
RT: 21.367 min Scan# 2255
Delta R.T. -0.008 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.7	34.1
229	21.6	17.1	25.7

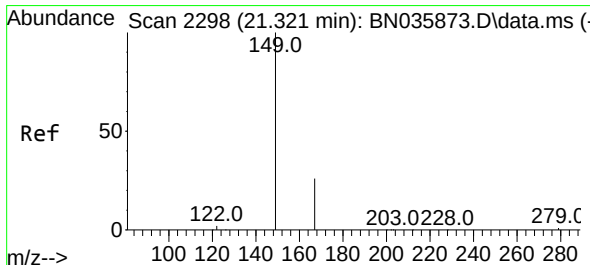
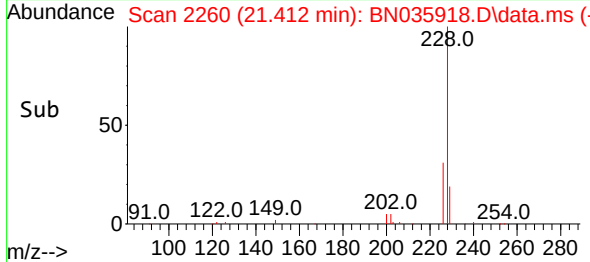
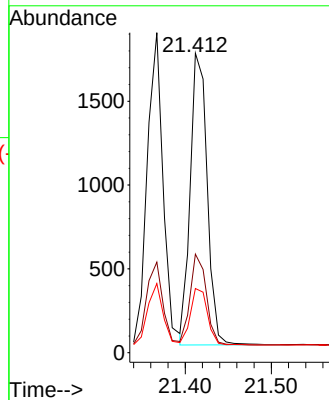
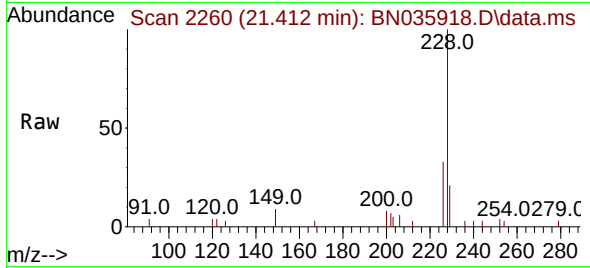




#33
Chrysene
Concen: 0.384 ng
RT: 21.412 min Scan# 21
Delta R.T. -0.008 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

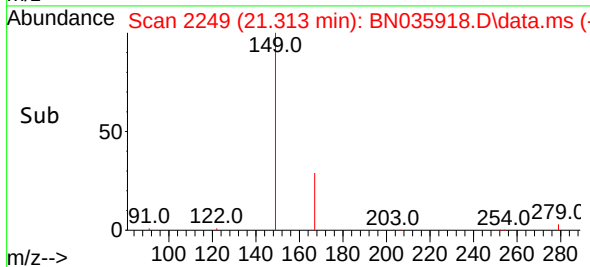
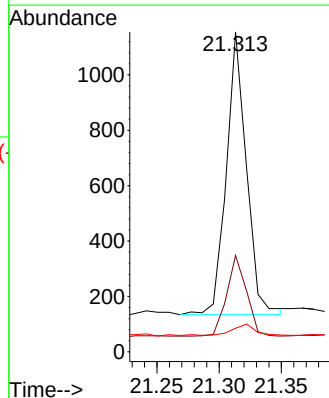
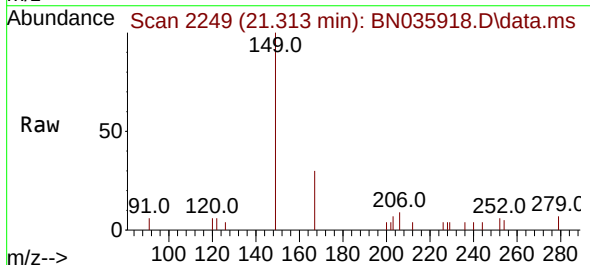
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

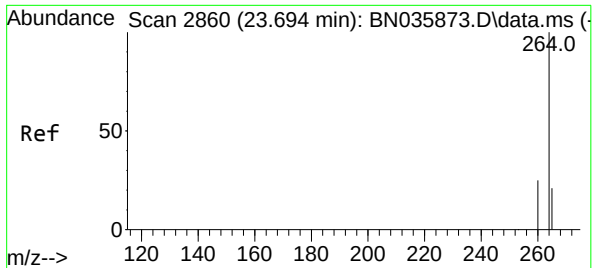
Tgt Ion:	228	Resp:	2378
Ion	Ratio	Lower	Upper
228	100		
226	32.9	25.2	37.8
229	21.4	16.0	24.0



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.475 ng
RT: 21.313 min Scan# 2249
Delta R.T. -0.008 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

Tgt Ion:	149	Resp:	1146
Ion	Ratio	Lower	Upper
149	100		
167	27.8	21.4	32.0
279	4.1	3.0	4.6

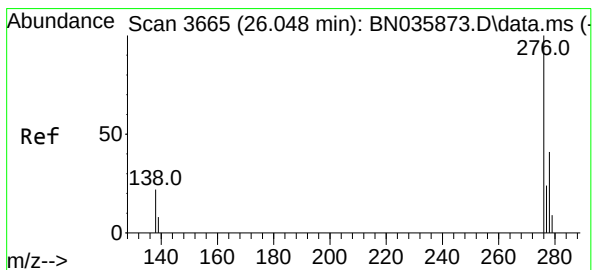
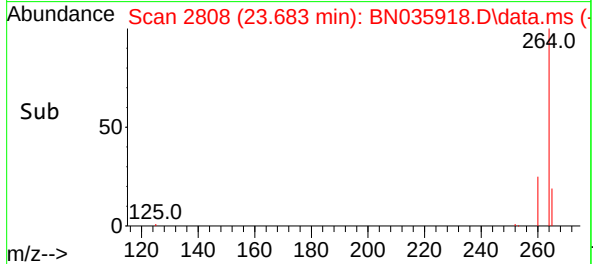
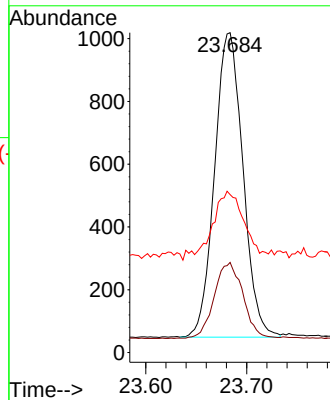
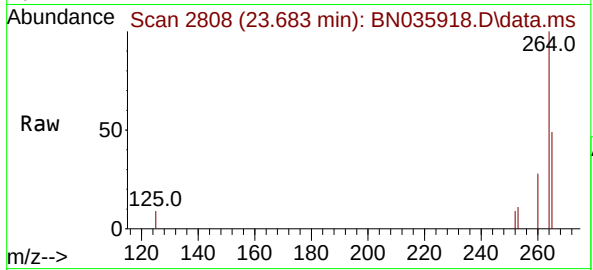




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.683 min Scan# 21
Delta R.T. -0.011 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

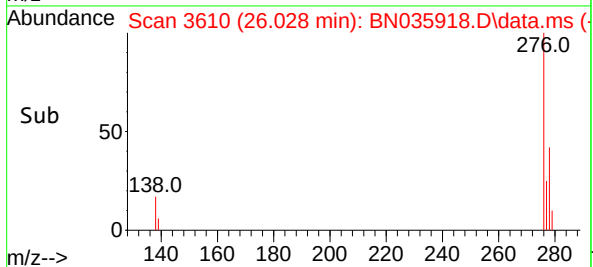
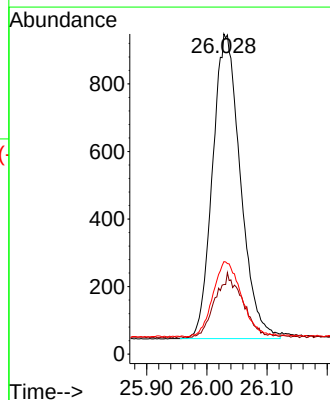
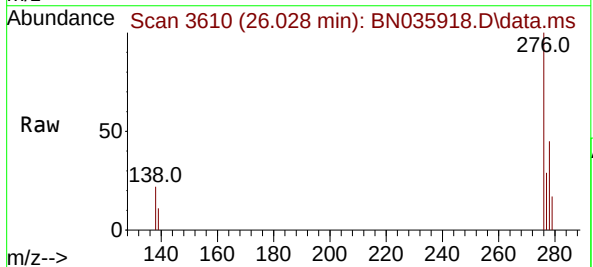
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

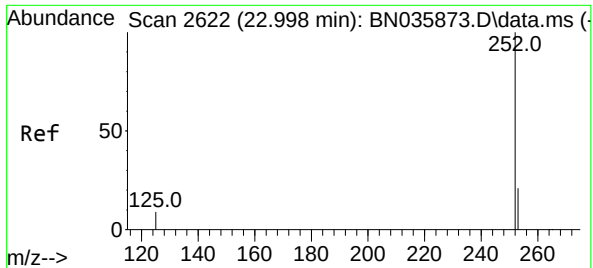
Tgt Ion:	264	Resp:	1895
Ion Ratio	Lower	Upper	
264	100		
260	28.2	21.7	32.5
265	49.4	33.9	50.9



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.388 ng
RT: 26.028 min Scan# 3610
Delta R.T. -0.019 min
Lab File: BN035918.D
Acq: 13 Jan 2025 12:37

Tgt Ion:	276	Resp:	2899
Ion Ratio	Lower	Upper	
276	100		
138	20.6	18.9	28.3
277	25.9	19.5	29.3





#37

Benzo(b)fluoranthene

Concen: 0.383 ng

RT: 22.988 min Scan# 21

Delta R.T. -0.011 min

Lab File: BN035918.D

Acq: 13 Jan 2025 12:37

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

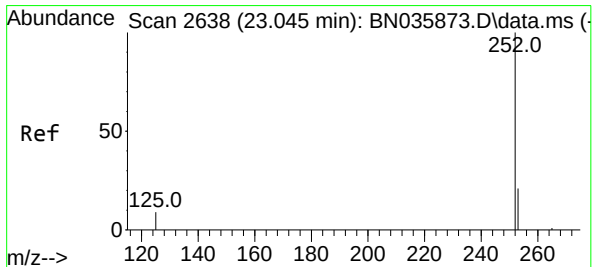
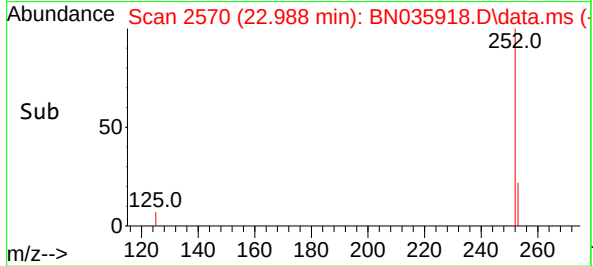
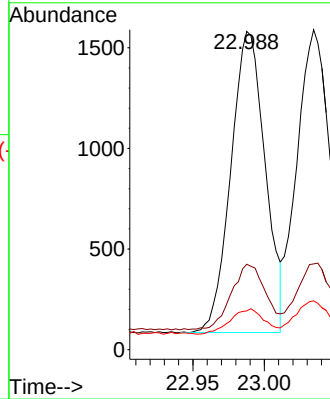
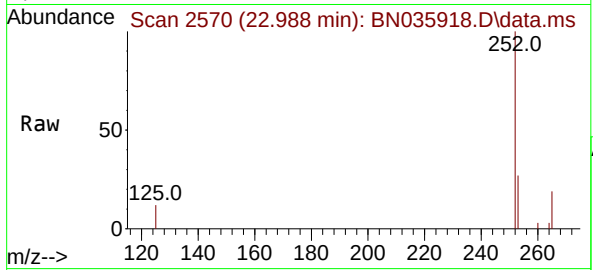
Tgt Ion:252 Resp: 2495

Ion Ratio Lower Upper

252 100

253 26.8 20.1 30.1

125 12.1 9.9 14.9



#38

Benzo(k)fluoranthene

Concen: 0.393 ng

RT: 23.034 min Scan# 2586

Delta R.T. -0.011 min

Lab File: BN035918.D

Acq: 13 Jan 2025 12:37

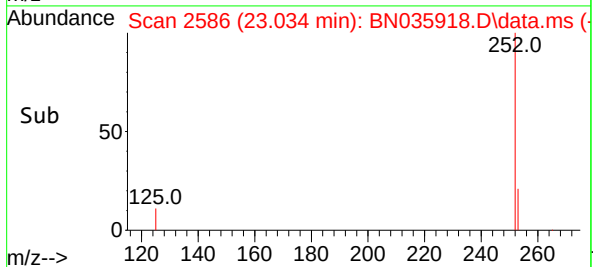
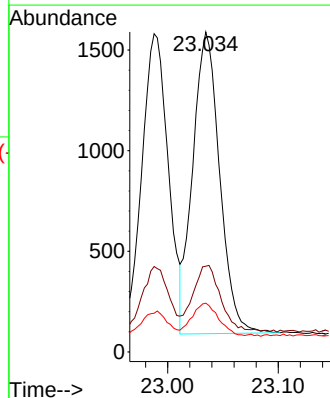
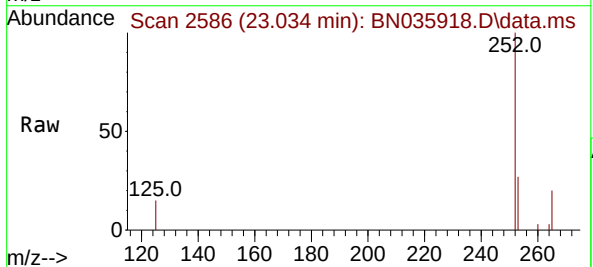
Tgt Ion:252 Resp: 2532

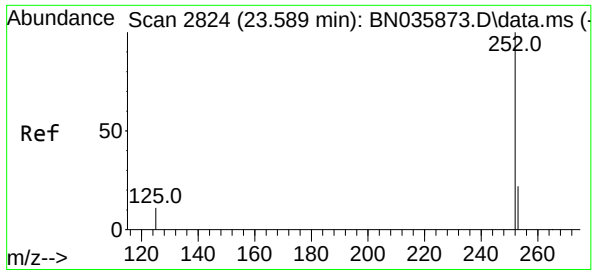
Ion Ratio Lower Upper

252 100

253 26.8 20.5 30.7

125 15.2 10.6 16.0





#39

Benzo(a)pyrene

Concen: 0.385 ng

RT: 23.581 min Scan# 21

Delta R.T. -0.008 min

Lab File: BN035918.D

Acq: 13 Jan 2025 12:37

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

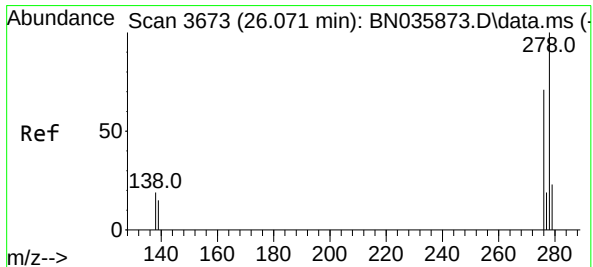
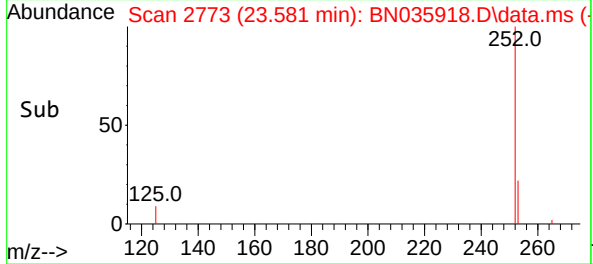
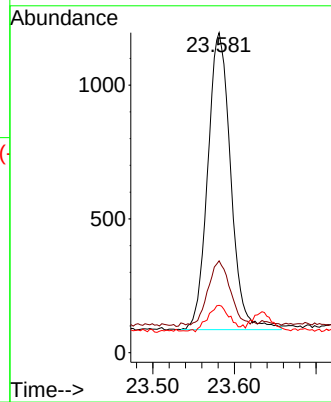
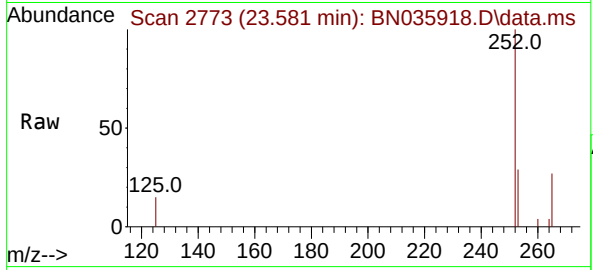
Tgt Ion:252 Resp: 2167

Ion Ratio Lower Upper

252 100

253 28.7 21.5 32.3

125 14.8 12.6 19.0



#40

Dibenzo(a,h)anthracene

Concen: 0.390 ng

RT: 26.049 min Scan# 3617

Delta R.T. -0.022 min

Lab File: BN035918.D

Acq: 13 Jan 2025 12:37

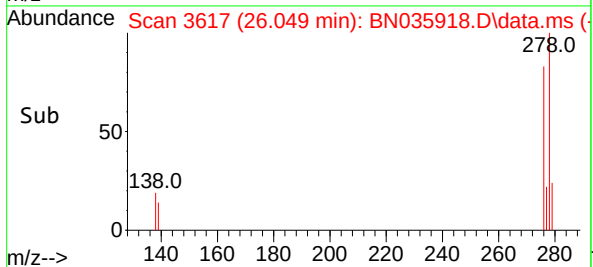
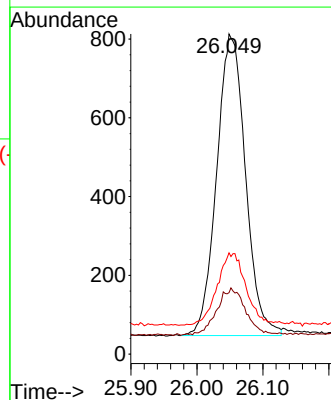
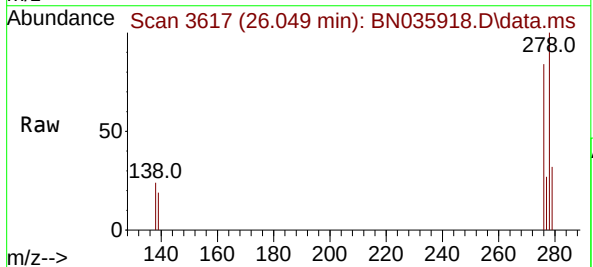
Tgt Ion:278 Resp: 2321

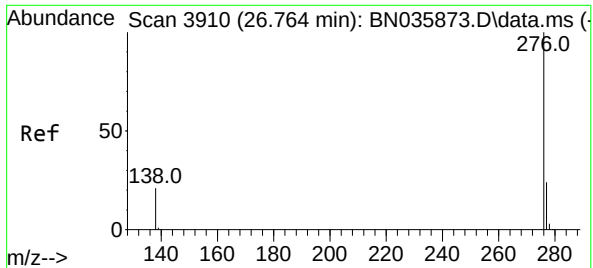
Ion Ratio Lower Upper

278 100

139 19.2 15.9 23.9

279 31.6 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 0.382 ng

RT: 26.745 min Scan# 3855

Delta R.T. -0.019 min

Lab File: BN035918.D

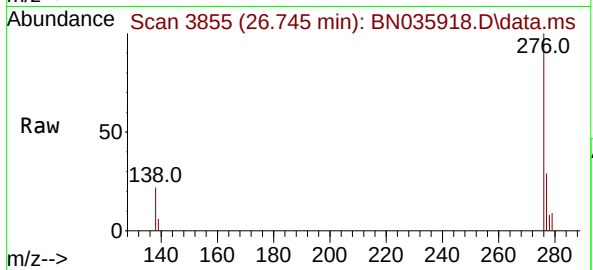
Acq: 13 Jan 2025 12:37

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



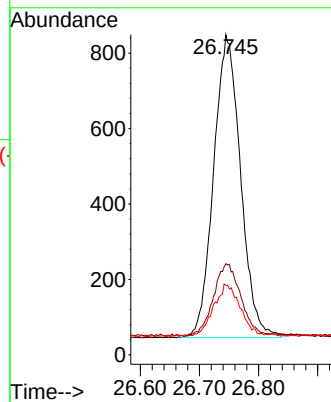
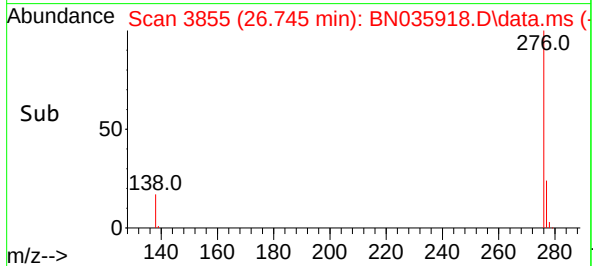
Tgt Ion:276 Resp: 2537

Ion Ratio Lower Upper

276 100

277 28.5 22.8 34.2

138 21.7 20.1 30.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011325\
Data File : BN035918.D
Acq On : 13 Jan 2025 12:37
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jan 13 13:14:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 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	84	0.00
2	1,4-Dioxane	0.397	0.342	13.9	77	0.00
3	n-Nitrosodimethylamine	0.693	0.791	-14.1	98	-0.01
4 S	2-Fluorophenol	0.981	0.917	6.5	81	0.00
5 S	Phenol-d6	1.219	1.099	9.8	78	0.00
6	bis(2-Chloroethyl)ether	0.929	0.841	9.5	75	-0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	76	0.00
8 S	Nitrobenzene-d5	0.317	0.338	-6.6	87	-0.01
9	Naphthalene	1.123	1.115	0.7	78	0.00
10	Hexachlorobutadiene	0.365	0.398	-9.0	86	0.00
11 SURR	2-Methylnaphthalene-d10	0.536	0.510	4.9	73	0.00
12	2-Methylnaphthalene	0.695	0.679	2.3	75	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	72	0.00
14 S	2,4,6-Tribromophenol	0.192	0.251	-30.7#	96	-0.01
15 S	2-Fluorobiphenyl	1.755	1.756	-0.1	74	0.00
16	Acenaphthylene	1.884	1.873	0.6	74	0.00
17	Acenaphthene	1.235	1.262	-2.2	76	0.00
18	Fluorene	1.359	1.328	2.3	73	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	70	-0.01
20	4,6-Dinitro-2-methylphenol	0.069	0.111	-60.9#	116	0.00
21	4-Bromophenyl-phenylether	0.274	0.293	-6.9	76	0.00
22	Hexachlorobenzene	0.374	0.386	-3.2	76	0.00
23	Atrazine	0.184	0.200	-8.7	80	0.00
24	Pentachlorophenol	0.132	0.161	-22.0	95	0.00
25	Phenanthrene	1.167	1.169	-0.2	71	-0.01
26	Anthracene	1.062	1.076	-1.3	74	0.00
27 SURR	Fluoranthene-d10	0.993	1.002	-0.9	71	0.00
28	Fluoranthene	1.361	1.351	0.7	71	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	71	0.00
30	Pyrene	1.624	1.609	0.9	72	0.00
31 S	Terphenyl-d14	0.797	0.778	2.4	70	0.00
32	Benzo(a)anthracene	1.410	1.418	-0.6	74	0.00
33	Chrysene	1.475	1.415	4.1	69	0.00
34	Bis(2-ethylhexyl)phthalate	0.574	0.682	-18.8	83	0.00
35 I	Perylene-d12	1.000	1.000	0.0	72	-0.01
36	Indeno(1,2,3-cd)pyrene	1.577	1.530	3.0	78	-0.02
37	Benzo(b)fluoranthene	1.374	1.317	4.1	73	-0.01
38	Benzo(k)fluoranthene	1.360	1.336	1.8	77	-0.01
39 C	Benzo(a)pyrene	1.190	1.144	3.9	76	0.00
40	Dibenzo(a,h)anthracene	1.255	1.225	2.4	80	-0.02
41	Benzo(g,h,i)perylene	1.403	1.339	4.6	78	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011325\
Data File : BN035918.D
Acq On : 13 Jan 2025 12:37
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jan 13 13:14:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 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	84	0.00
2	1,4-Dioxane	0.400	0.345	13.8	77	0.00
3	n-Nitrosodimethylamine	0.400	0.456	-14.0	98	-0.01
4 S	2-Fluorophenol	0.400	0.374	6.5	81	0.00
5 S	Phenol-d6	0.400	0.361	9.8	78	0.00
6	bis(2-Chloroethyl)ether	0.400	0.362	9.5	75	-0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	76	0.00
8 S	Nitrobenzene-d5	0.400	0.427	-6.7	87	-0.01
9	Naphthalene	0.400	0.397	0.8	78	0.00
10	Hexachlorobutadiene	0.400	0.437	-9.2	86	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.381	4.8	73	0.00
12	2-Methylnaphthalene	0.400	0.391	2.3	75	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	72	0.00
14 S	2,4,6-Tribromophenol	0.400	0.523	-30.8#	96	-0.01
15 S	2-Fluorobiphenyl	0.400	0.400	0.0	74	0.00
16	Acenaphthylene	0.400	0.398	0.5	74	0.00
17	Acenaphthene	0.400	0.409	-2.2	76	0.00
18	Fluorene	0.400	0.391	2.3	73	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	70	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.638	-59.5#	116	0.00
21	4-Bromophenyl-phenylether	0.400	0.428	-7.0	76	0.00
22	Hexachlorobenzene	0.400	0.413	-3.2	76	0.00
23	Atrazine	0.400	0.436	-9.0	80	0.00
24	Pentachlorophenol	0.400	0.487	-21.7	95	0.00
25	Phenanthrene	0.400	0.401	-0.3	71	-0.01
26	Anthracene	0.400	0.405	-1.3	74	0.00
27 SURR	Fluoranthene-d10	0.400	0.404	-1.0	71	0.00
28	Fluoranthene	0.400	0.397	0.8	71	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	71	0.00
30	Pyrene	0.400	0.396	1.0	72	0.00
31 S	Terphenyl-d14	0.400	0.390	2.5	70	0.00
32	Benzo(a)anthracene	0.400	0.402	-0.5	74	0.00
33	Chrysene	0.400	0.384	4.0	69	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.475	-18.7	83	0.00
35 I	Perylene-d12	0.400	0.400	0.0	72	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.388	3.0	78	-0.02
37	Benzo(b)fluoranthene	0.400	0.383	4.3	73	-0.01
38	Benzo(k)fluoranthene	0.400	0.393	1.8	77	-0.01
39 C	Benzo(a)pyrene	0.400	0.385	3.8	76	0.00
40	Dibenzo(a,h)anthracene	0.400	0.390	2.5	80	-0.02
41	Benzo(g,h,i)perylene	0.400	0.382	4.5	78	-0.02

(#) = Out of Range

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



QC SAMPLE DATA

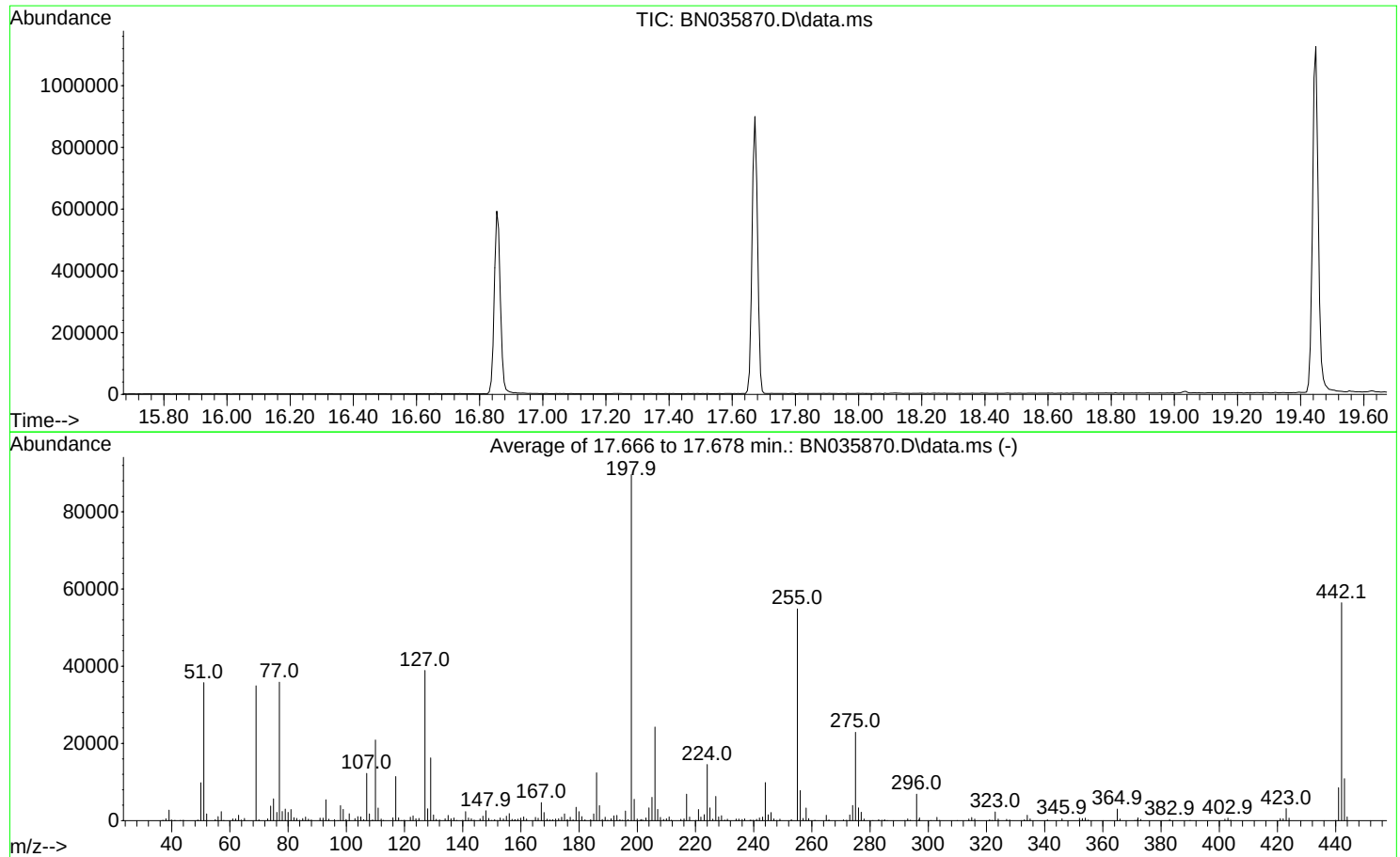
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
Data File : BN035870.D
Acq On : 02 Jan 2025 10:49
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-BN010225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jan 02 15:39:17 2025



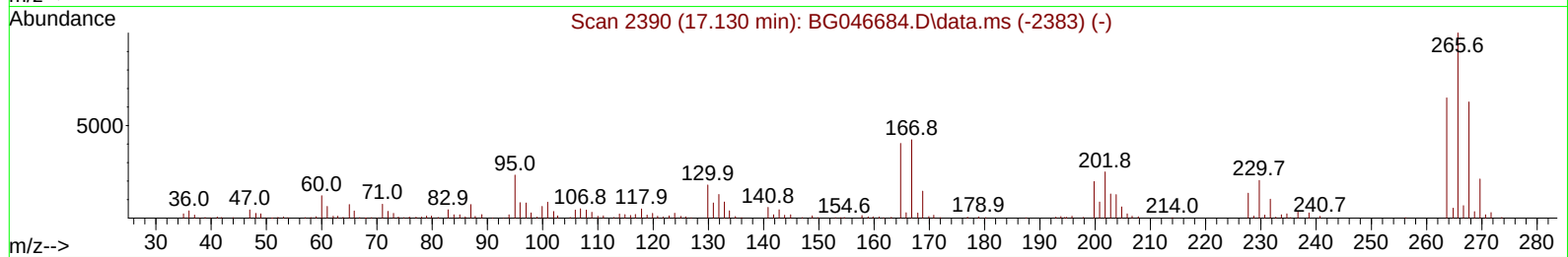
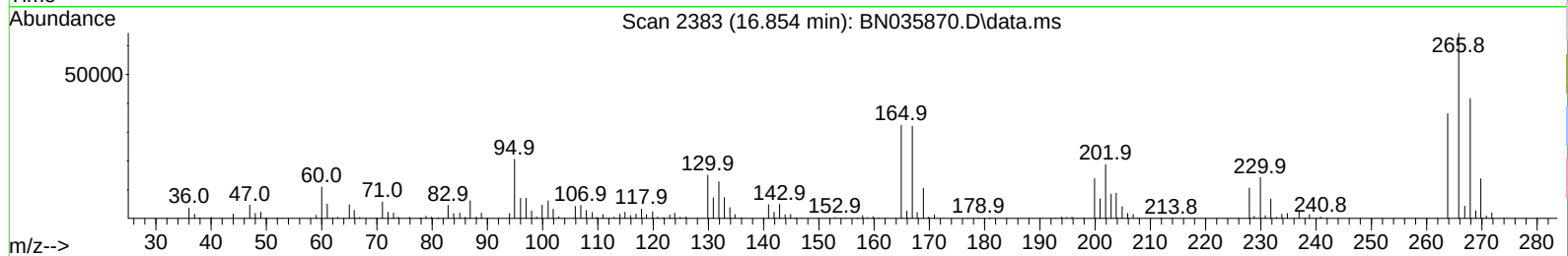
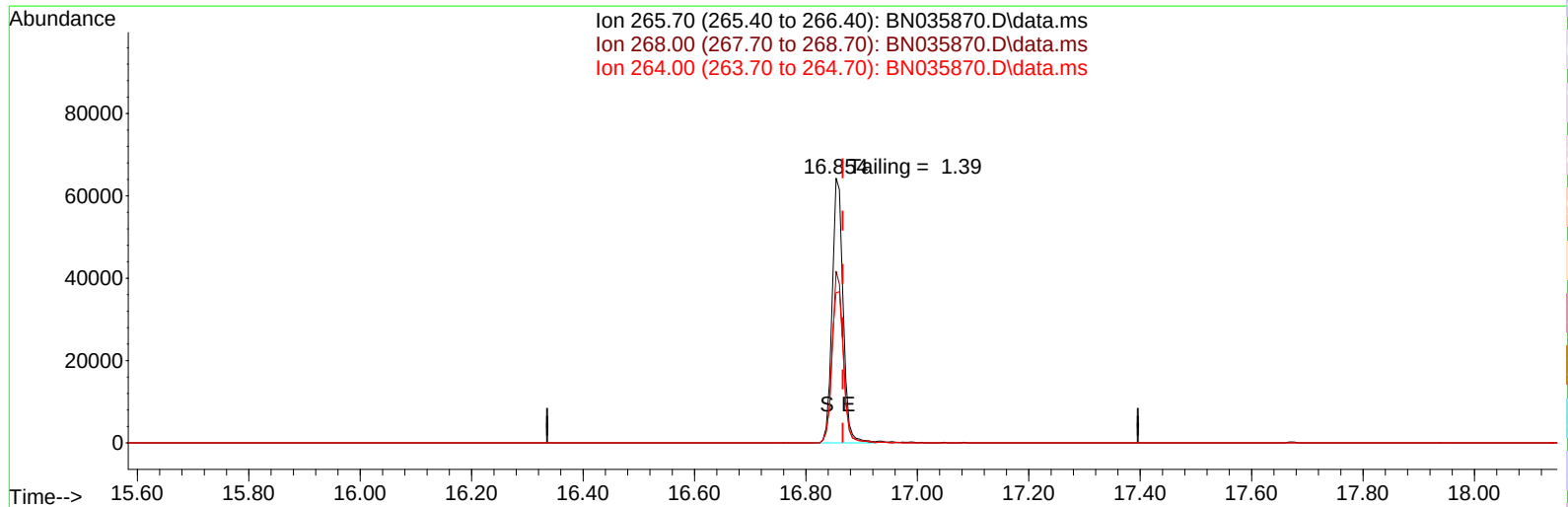
AutoFind: Scans 2521, 2522, 2523; Background Corrected with Scan 2515

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	39.9	35733	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.0	34920	PASS
70	69	0.00	2	0.7	232	PASS
127	198	10	80	43.4	38907	PASS
197	198	0.00	2	0.3	256	PASS
198	198	100	100	100.0	89616	PASS
199	198	5	9	6.2	5523	PASS
275	198	10	60	25.6	22899	PASS
365	198	1	100	3.3	2996	PASS
441	198	0.01	100	9.5	8544	PASS
442	442	50	100	100.0	56448	PASS
443	442	15	24	19.3	10868	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
Data File : BN035870.D
Acq On : 02 Jan 2025 10:49
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jan 02 12:15:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration



TIC: BN035870.D\data.ms

(70) Pentachlorophenol (C)

16.854min (-0.012) 32111.49 ng

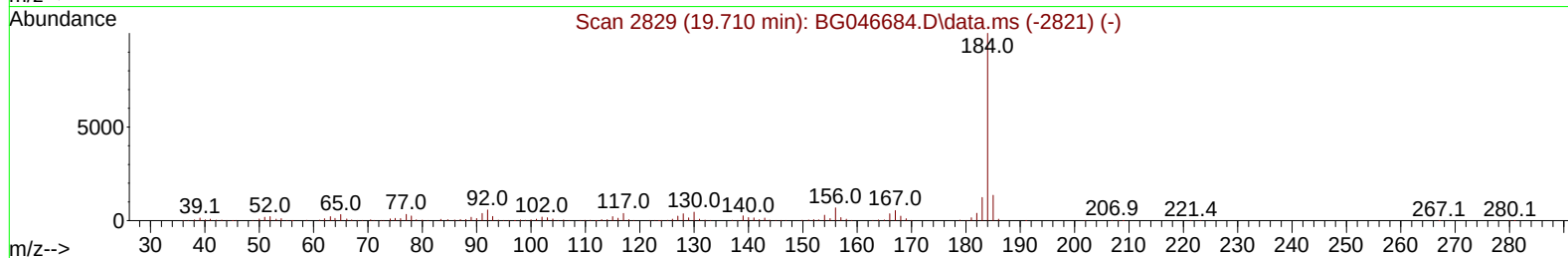
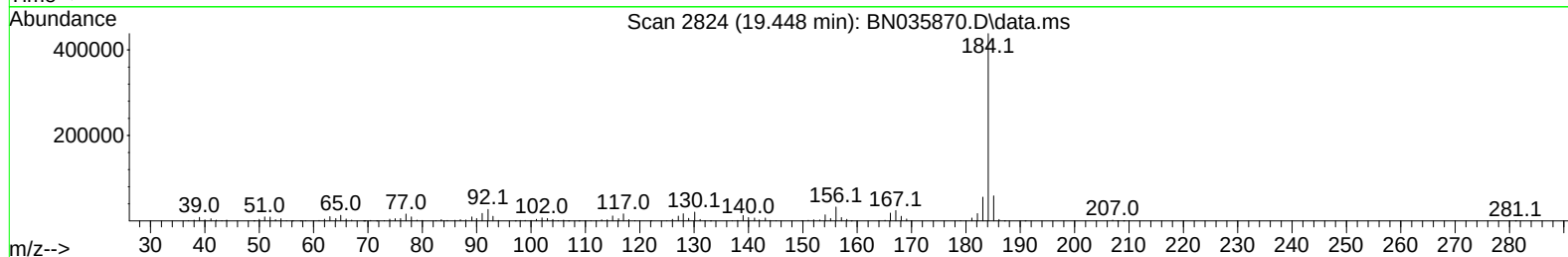
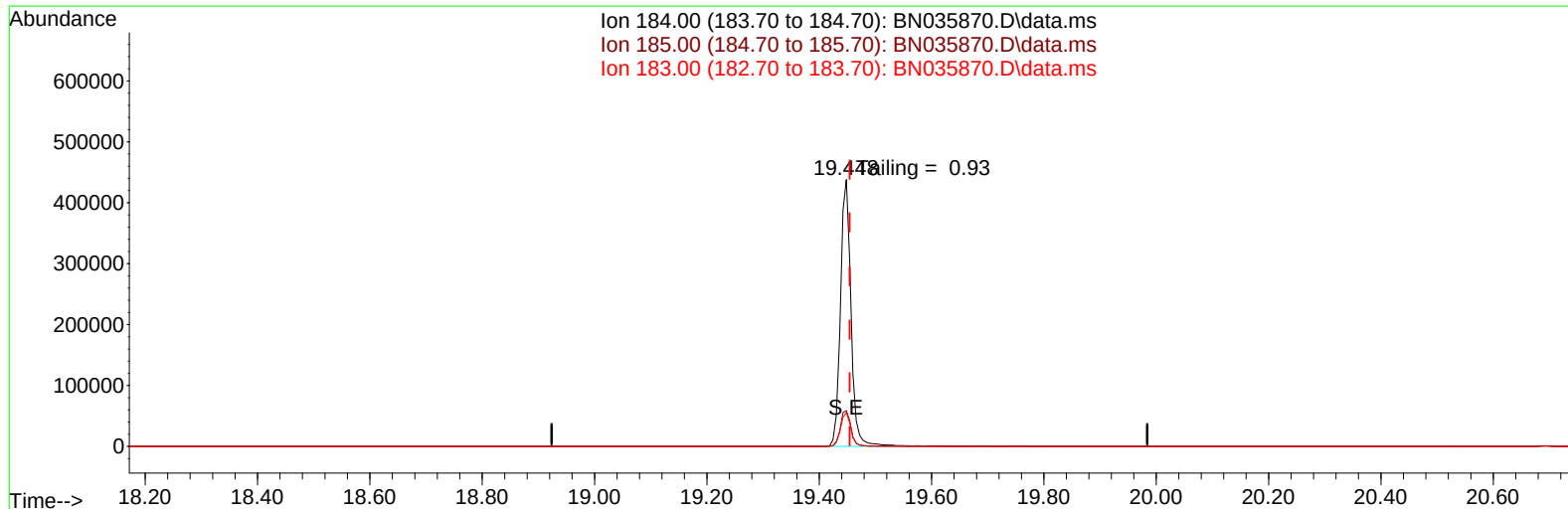
response 87193

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.79
264.00	61.60	56.74
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
Data File : BN035870.D
Acq On : 02 Jan 2025 10:49
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jan 02 12:15:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration



TIC: BN035870.D\data.ms

(77) Benzidine

19.448min (-0.006) 0.00 ng

response 567773

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.41
183.00	13.20	12.73
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

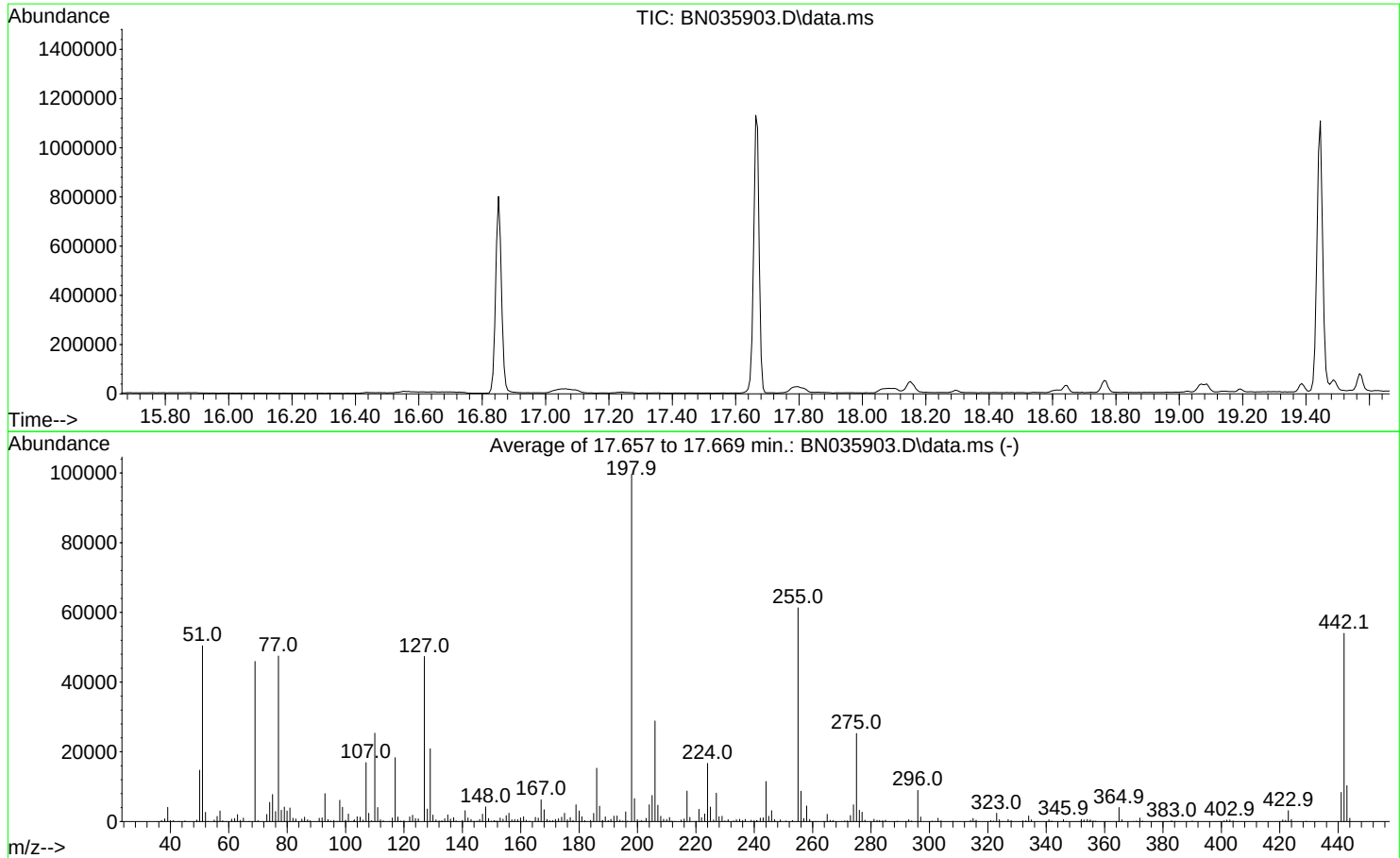
Date	Instrument Name	DFTPP Data File
1/2/2025	BNA_N	<u>BN035870.D</u>
Compound Name	Response	Retention Time
DDT	243994	20.695
DDD	3023	20.307
DDE	79	19.748
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
3102	247096	1.26

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011025\
Data File : BN035903.D
Acq On : 10 Jan 2025 12:38
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-BN010225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jan 02 15:39:17 2025



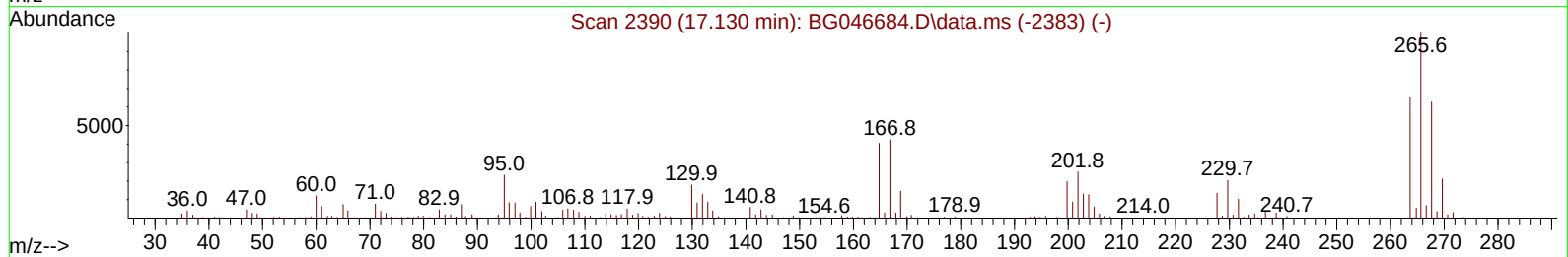
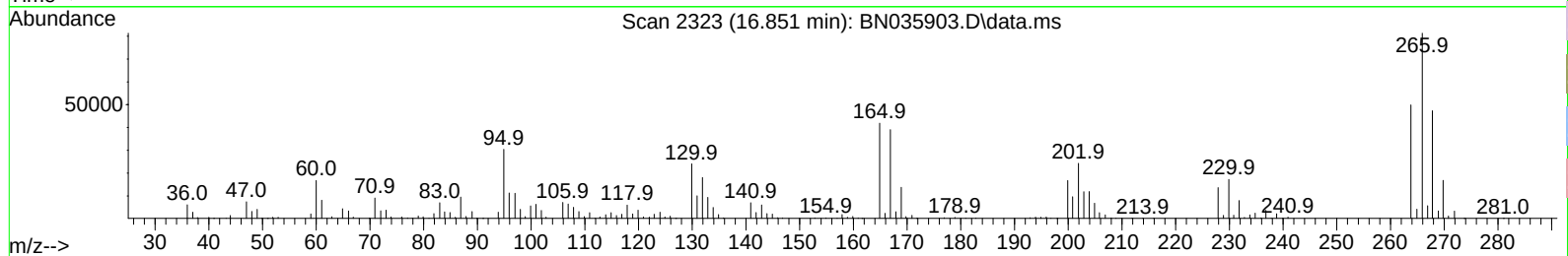
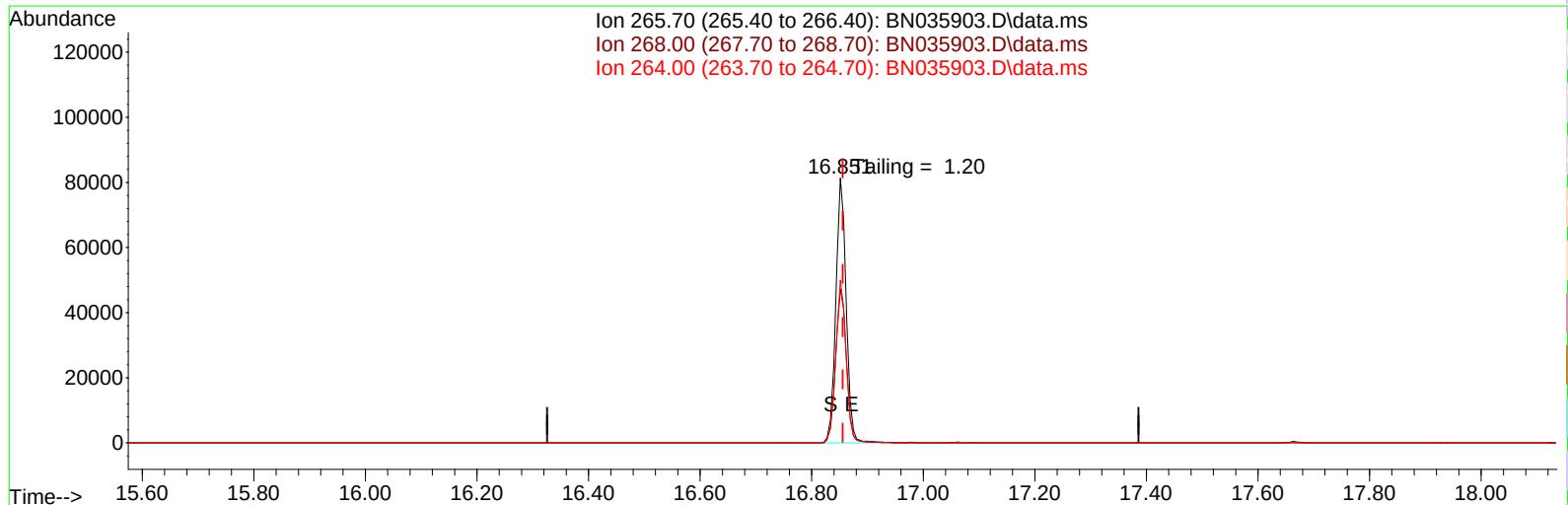
AutoFind: Scans 2460, 2461, 2462; Background Corrected with Scan 2454

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	50.6	50453	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.1	45952	PASS
70	69	0.00	2	0.6	270	PASS
127	198	10	80	47.5	47347	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	99619	PASS
199	198	5	9	6.6	6598	PASS
275	198	10	60	25.4	25286	PASS
365	198	1	100	4.0	4026	PASS
441	198	0.01	100	8.4	8350	PASS
442	442	50	100	100.0	53997	PASS
443	442	15	24	19.1	10302	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011025\
Data File : BN035903.D
Acq On : 10 Jan 2025 12:38
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jan 10 17:41:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration



TIC: BN035903.D\data.ms

(70) Pentachlorophenol (C)

16.851min (-0.005) 23526.14 ng

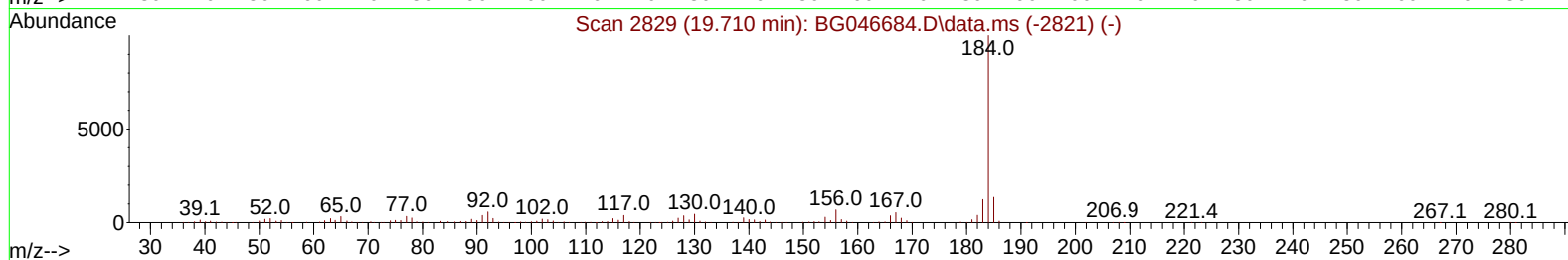
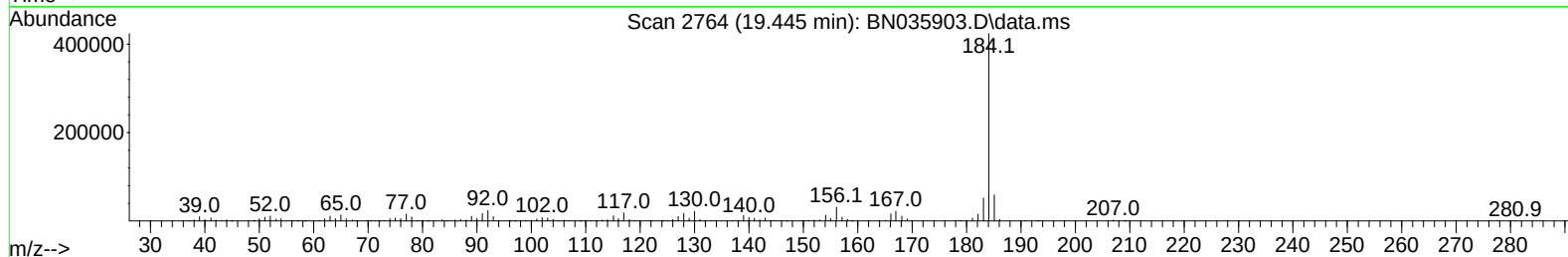
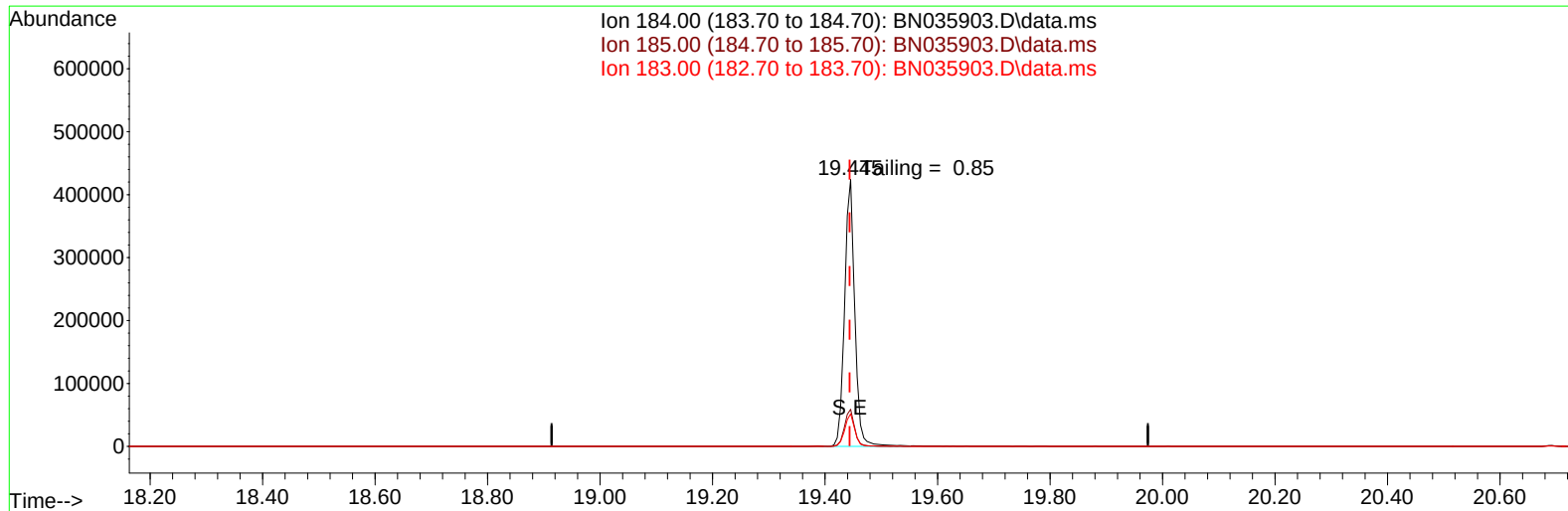
response 104499

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	58.18
264.00	61.60	61.39
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011025\
Data File : BN035903.D
Acq On : 10 Jan 2025 12:38
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jan 10 17:41:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration



TIC: BN035903.D\data.ms

(77) Benzidine

19.445min (+ 0.001) 0.00 ng

response 537267

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.93
183.00	13.20	12.22
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

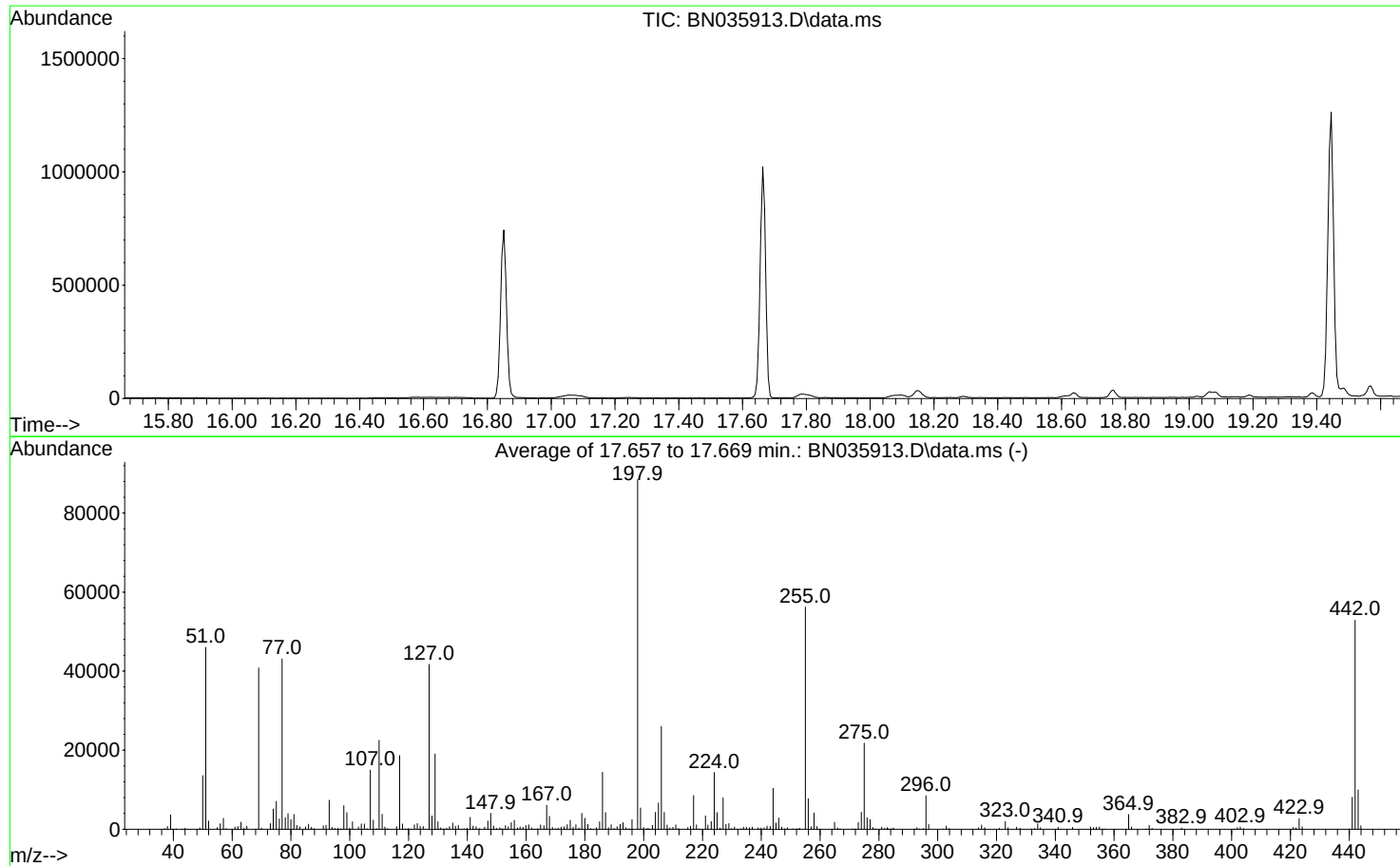
Date	Instrument Name	DFTPP Data File
1/10/2025	BNA_N	<u>BN035903.D</u>
Compound Name	Response	Retention Time
DDT	276232	20.692
DDD	3896	20.245
DDE	164	19.745
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
4060	280292	1.45

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011325\
Data File : BN035913.D
Acq On : 13 Jan 2025 09:28
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-BN010225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jan 02 15:39:17 2025



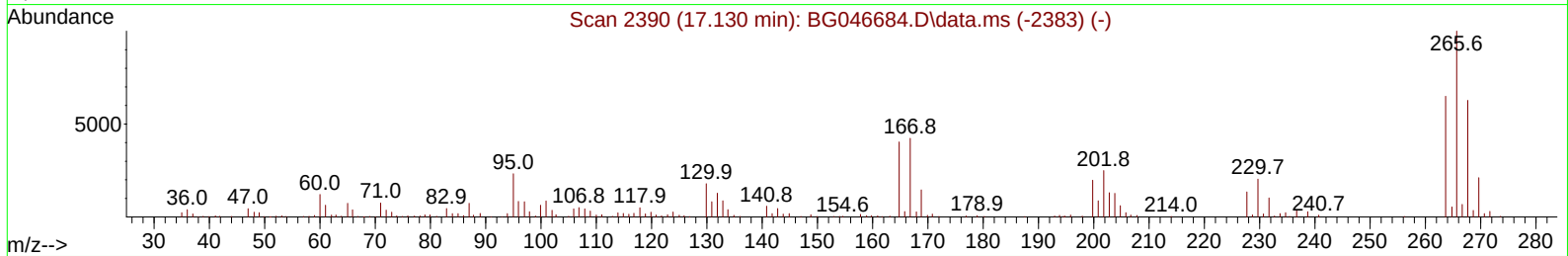
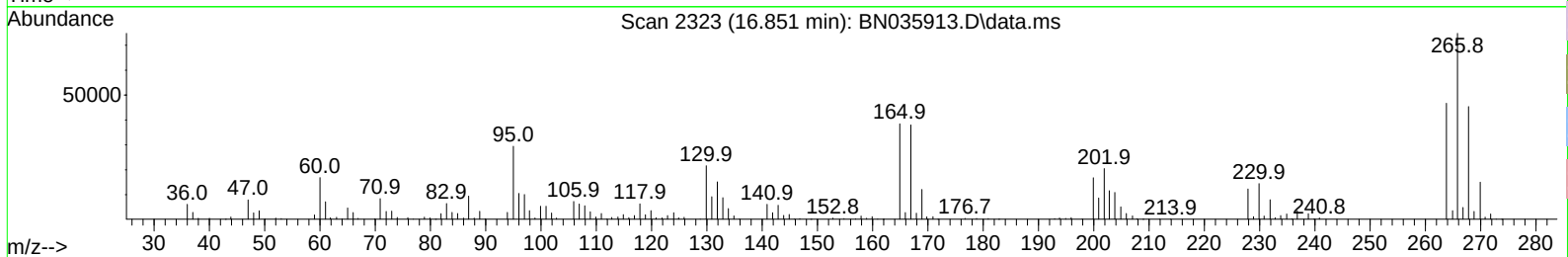
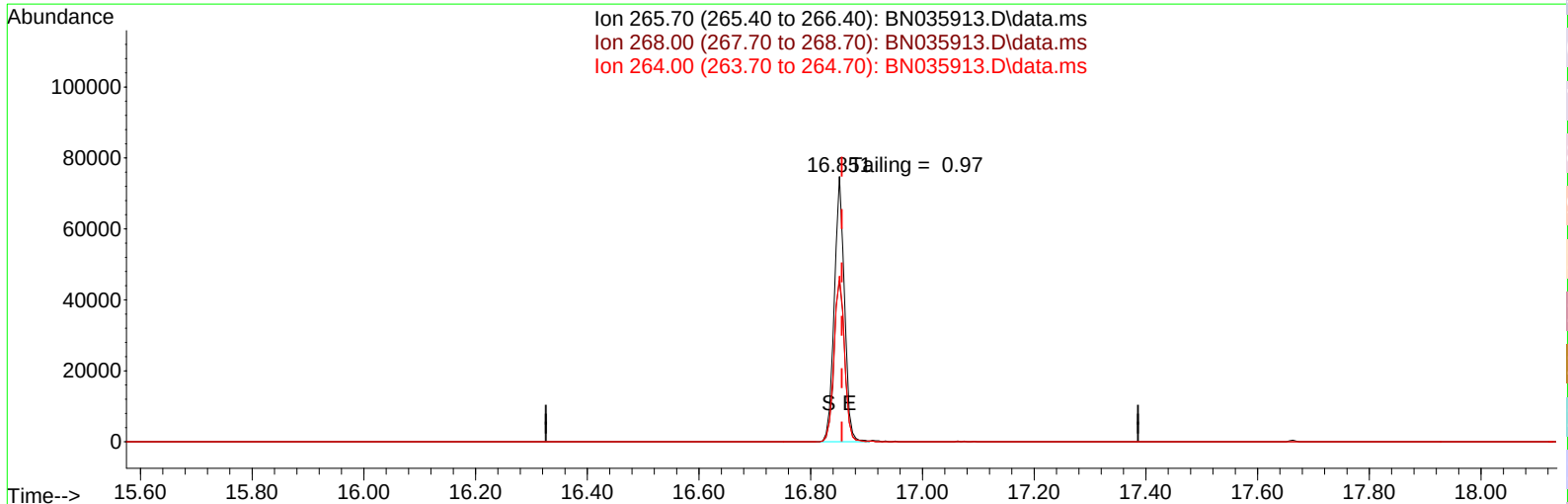
AutoFind: Scans 2460, 2461, 2462; Background Corrected with Scan 2453

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	52.0	46029	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.2	40824	PASS
70	69	0.00	2	0.7	306	PASS
127	198	10	80	47.1	41691	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	88453	PASS
199	198	5	9	6.1	5379	PASS
275	198	10	60	24.6	21773	PASS
365	198	1	100	4.2	3737	PASS
441	198	0.01	100	9.2	8095	PASS
442	442	50	100	100.0	52923	PASS
443	442	15	24	18.8	9949	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011325\
Data File : BN035913.D
Acq On : 13 Jan 2025 09:28
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jan 13 10:50:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration



TIC: BN035913.D\data.ms

(70) Pentachlorophenol (C)

16.851min (-0.005) 22555.44 ng

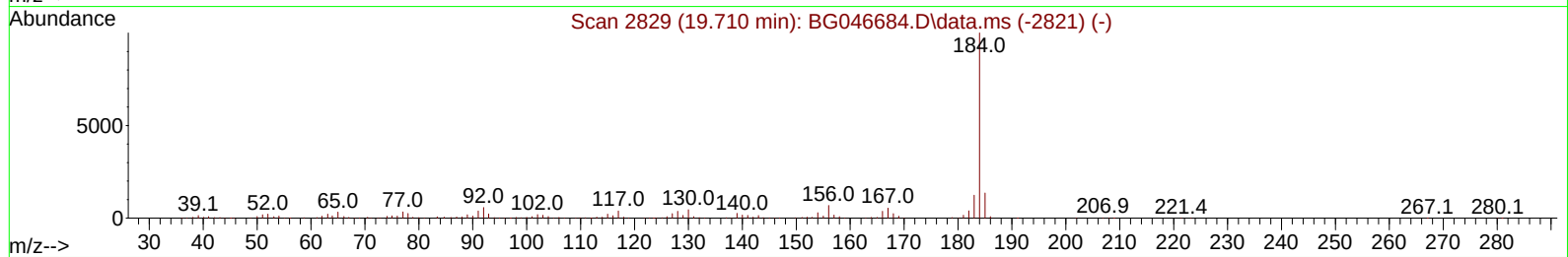
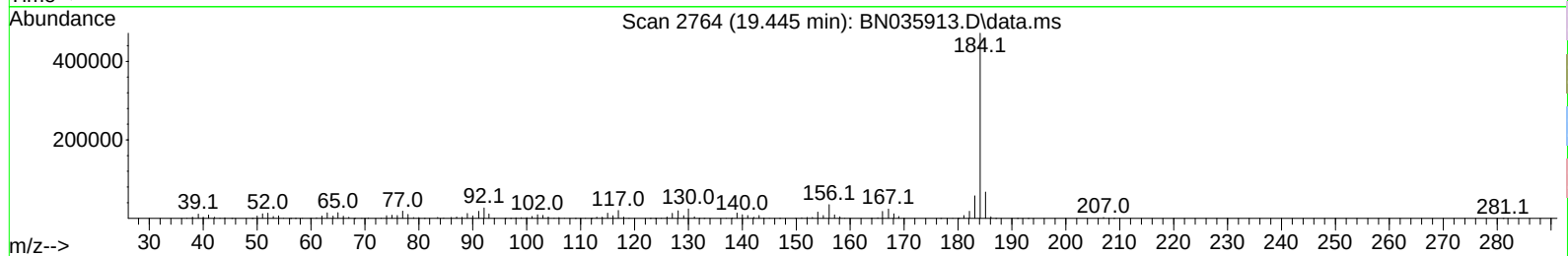
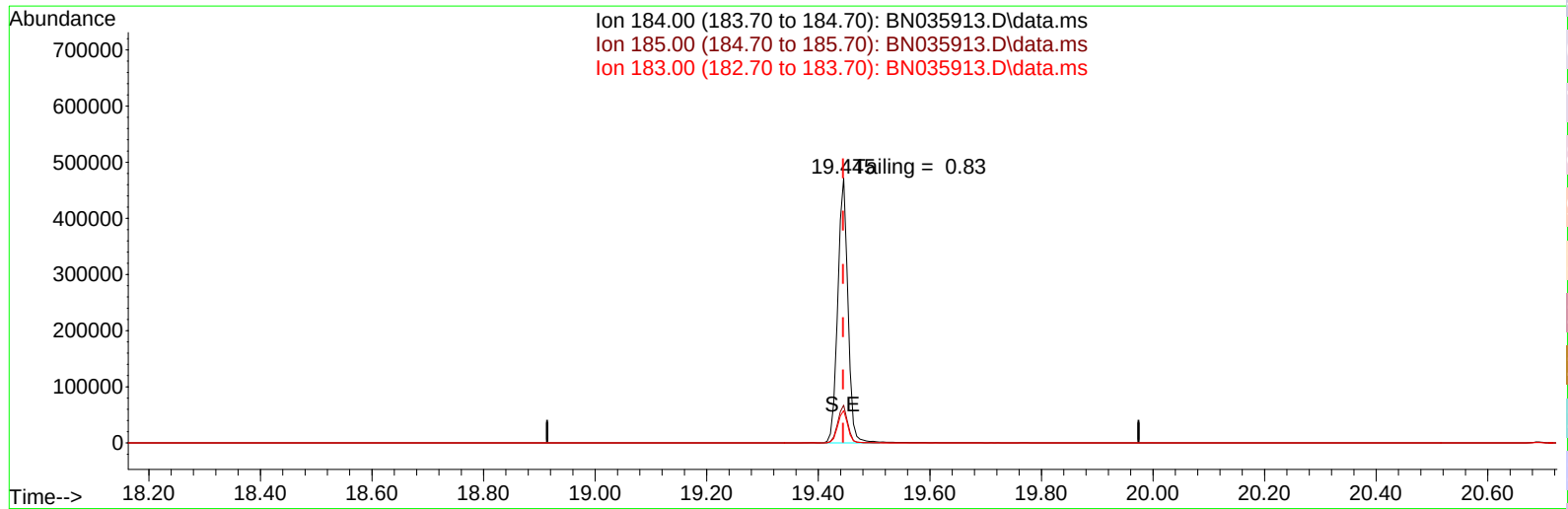
response 94169

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	60.71
264.00	61.60	62.44
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011325\
Data File : BN035913.D
Acq On : 13 Jan 2025 09:28
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jan 13 10:50:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration



TIC: BN035913.D\data.ms

(77) Benzidine

19.445min (+ 0.001) 0.00 ng

response 602465

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.24
183.00	13.20	12.23
0.00	0.00	0.00

Instrument :
 BNA_N
 ClientSampleId :
 DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
1/13/2025	BNA_N	<u>BN035913.D</u>
Compound Name	Response	Retention Time
DDT	304929	20.692
DDD	4176	20.304
DDE	278	19.739
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
4454	309383	1.44

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	RW5B FT WC - # 112G08005-WE13	Date Received:	
Client Sample ID:	PB166005BL	SDG No.:	Q1040
Lab Sample ID:	PB166005BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035915.D	1	01/10/25 08:10	01/13/25 10:44	PB166005

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.46		30 - 150		114%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.48		30 - 150		119%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.49	*	55 - 111		123%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.45	*	53 - 106		111%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		120%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1370		7.832			
1146-65-2	Naphthalene-d8	2540		10.622			
15067-26-2	Acenaphthene-d10	1260		14.458			
1517-22-2	Phenanthrene-d10	2500		17.206			
1719-03-5	Chrysene-d12	2260		21.376			
1520-96-3	Perylene-d12	2550		23.686			

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\BN011325\
Data File : BN035915.D
Acq On : 13 Jan 2025 10:44
Operator : RC/JU
Sample : PB166005BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB166005BL

Quant Time: Jan 13 11:10:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.832	152	1369	0.400	ng	0.00
7) Naphthalene-d8	10.622	136	2542	0.400	ng	0.00
13) Acenaphthene-d10	14.458	164	1264	0.400	ng	0.00
19) Phenanthrene-d10	17.206	188	2501	0.400	ng	0.00
29) Chrysene-d12	21.376	240	2263	0.400	ng	0.00
35) Perylene-d12	23.686	264	2548	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.405	112	1204	0.358	ng	0.00
5) Phenol-d6	6.979	99	1472	0.353	ng	0.00
8) Nitrobenzene-d5	8.967	82	987	0.490	ng	-0.01
11) 2-Methylnaphthalene-d10	12.213	152	1557	0.457	ng	0.00
14) 2,4,6-Tribromophenol	15.940	330	221	0.364	ng	-0.02
15) 2-Fluorobiphenyl	13.090	172	2470	0.445	ng	0.00
27) Fluoranthene-d10	19.229	212	2965	0.478	ng	0.00
31) Terphenyl-d14	19.829	244	2160	0.479	ng	0.00

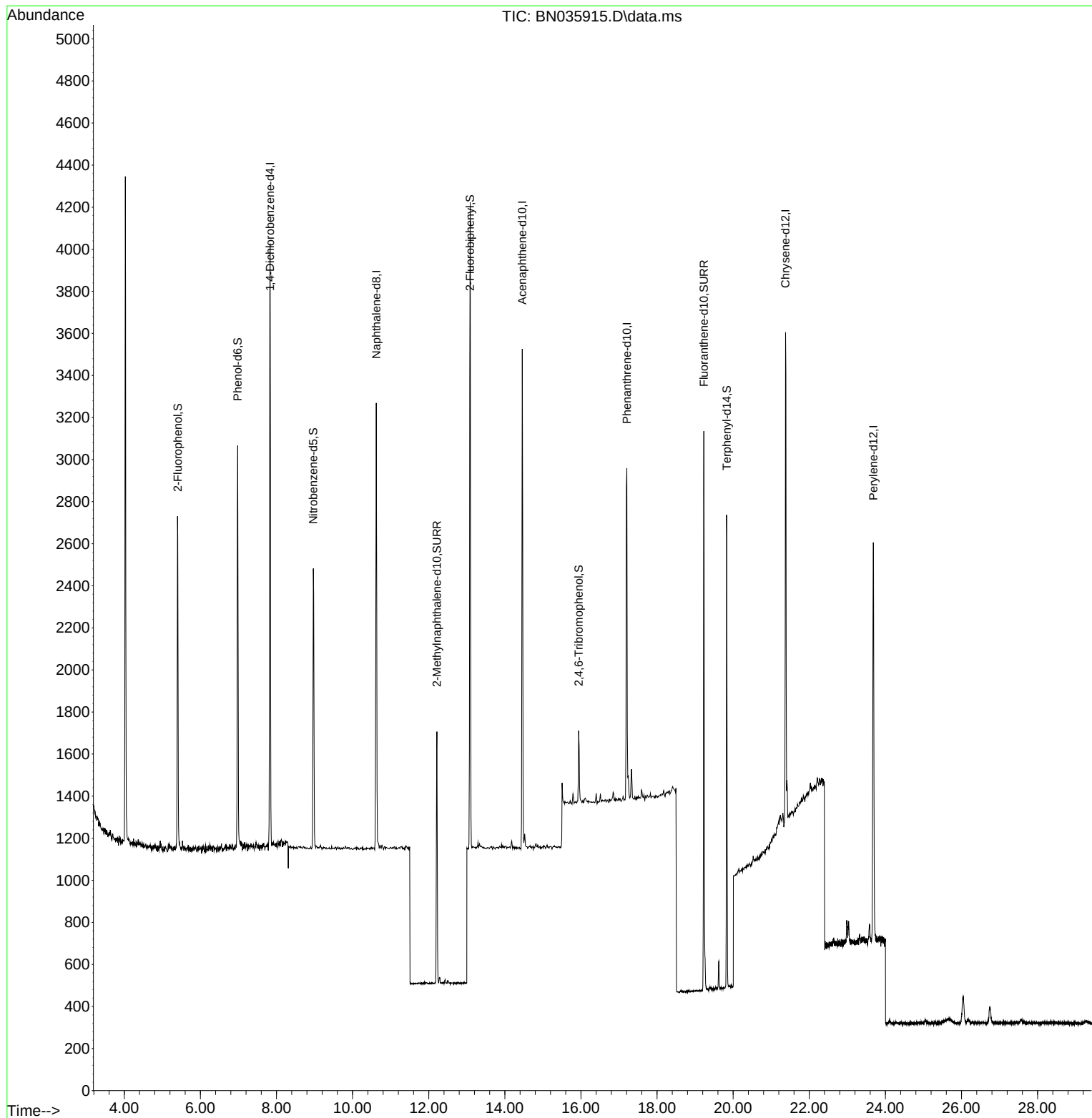
Target Compounds	Qvalue

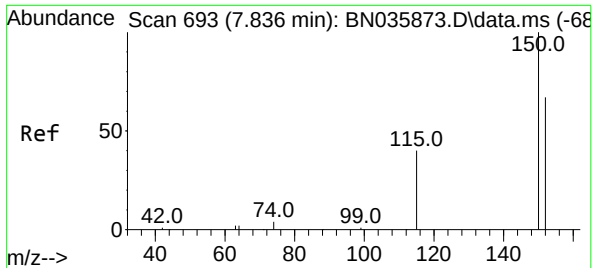
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011325\
Data File : BN035915.D
Acq On : 13 Jan 2025 10:44
Operator : RC/JU
Sample : PB166005BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB166005BL

Quant Time: Jan 13 11:10:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

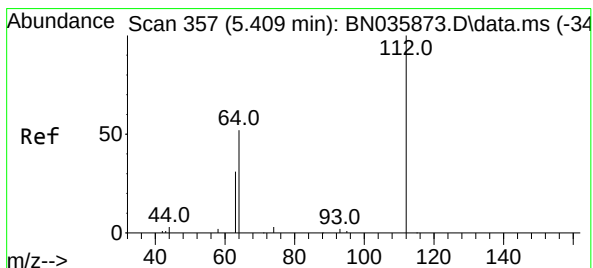
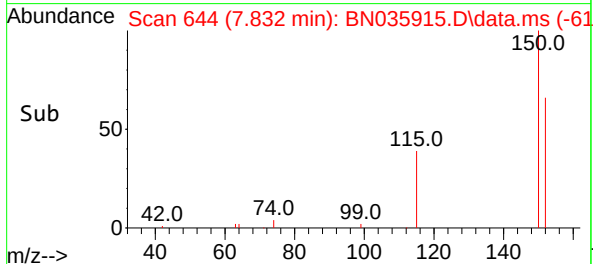
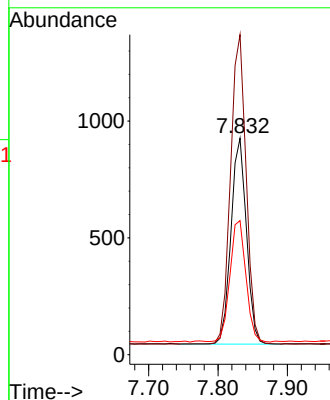
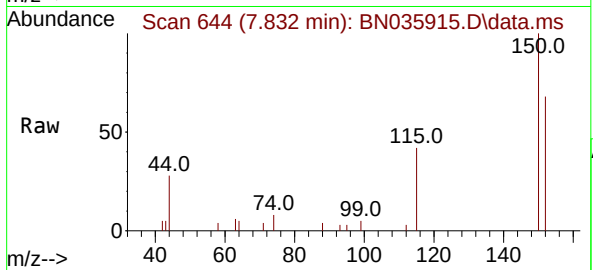




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.832 min Scan# 64
Delta R.T. -0.004 min
Lab File: BN035915.D
Acq: 13 Jan 2025 10:44

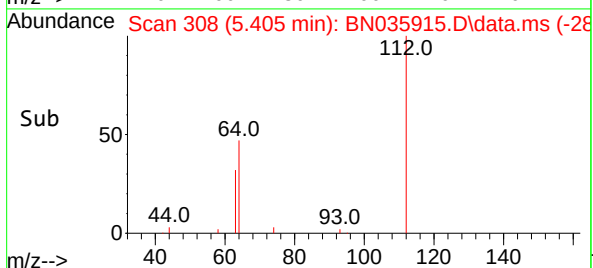
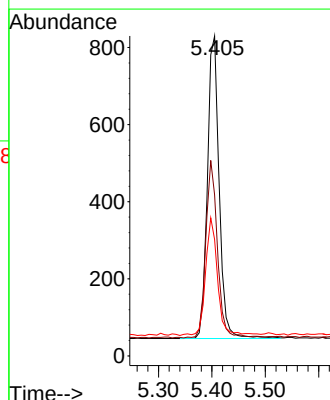
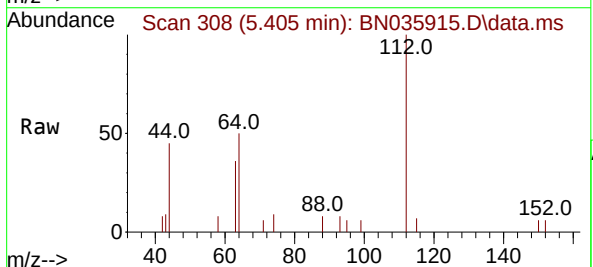
Instrument :
BNA_N
ClientSampleId :
PB166005BL

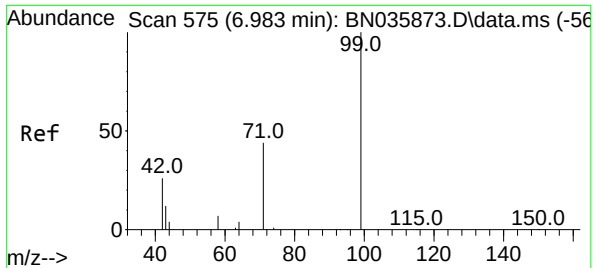
Tgt Ion:152 Resp: 1369
Ion Ratio Lower Upper
152 100
150 147.8 117.8 176.6
115 61.9 51.0 76.4



#4
2-Fluorophenol
Concen: 0.358 ng
RT: 5.405 min Scan# 308
Delta R.T. -0.004 min
Lab File: BN035915.D
Acq: 13 Jan 2025 10:44

Tgt Ion:112 Resp: 1204
Ion Ratio Lower Upper
112 100
64 57.8 48.2 72.2
63 39.7 30.0 45.0

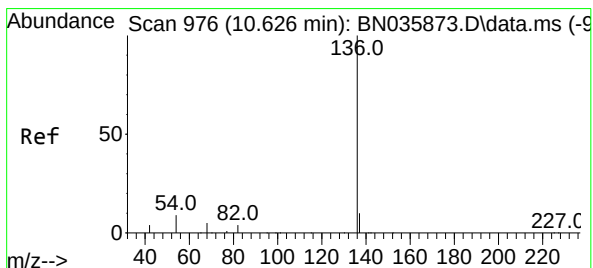
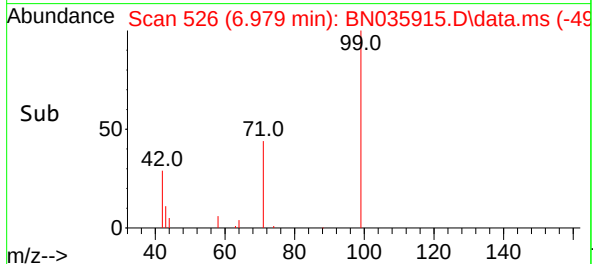
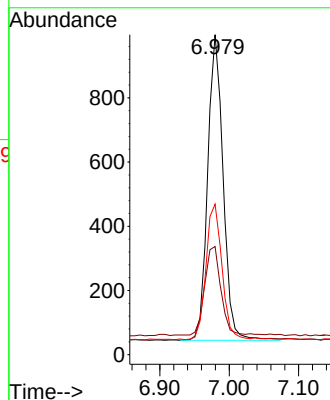
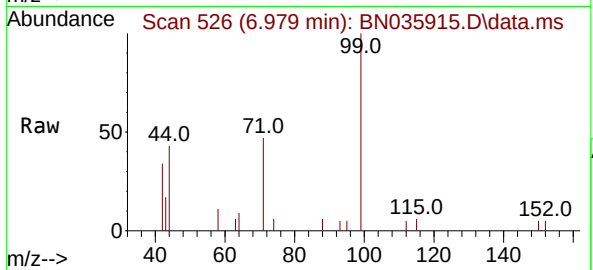




#5
Phenol-d6
Concen: 0.353 ng
RT: 6.979 min Scan# 51
Delta R.T. -0.004 min
Lab File: BN035915.D
Acq: 13 Jan 2025 10:44

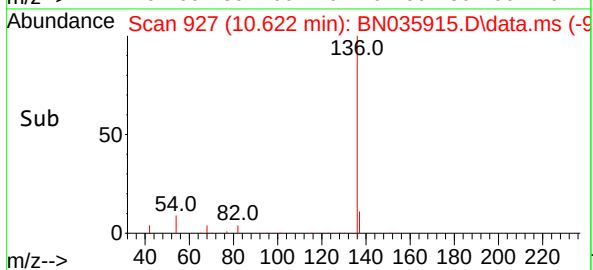
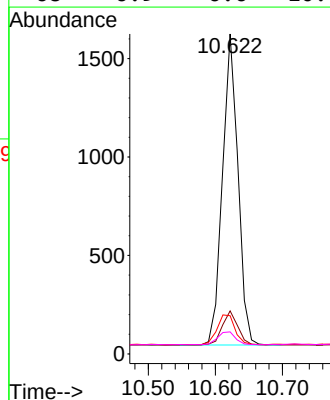
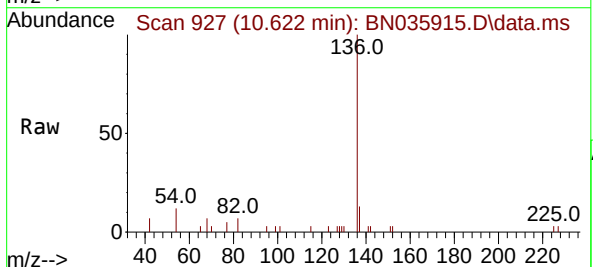
Instrument :
BNA_N
ClientSampleId :
PB166005BL

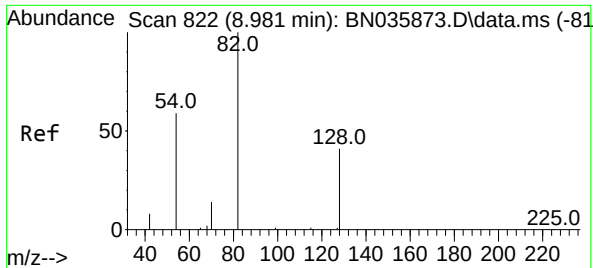
Tgt Ion: 99 Resp: 1472
Ion Ratio Lower Upper
99 100
42 30.2 23.5 35.3
71 45.9 35.5 53.3



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.622 min Scan# 927
Delta R.T. -0.004 min
Lab File: BN035915.D
Acq: 13 Jan 2025 10:44

Tgt Ion: 136 Resp: 2542
Ion Ratio Lower Upper
136 100
137 13.4 10.6 15.8
54 11.9 9.8 14.6
68 6.9 6.6 10.0

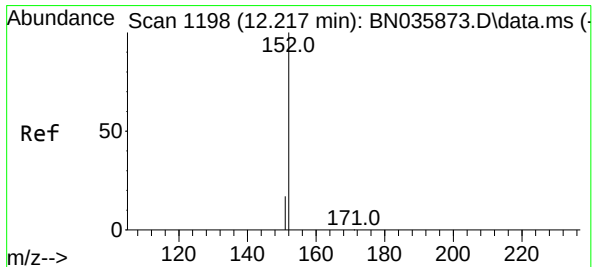
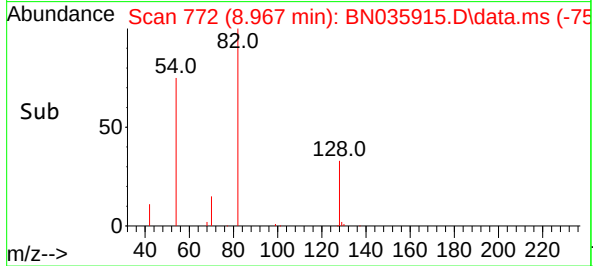
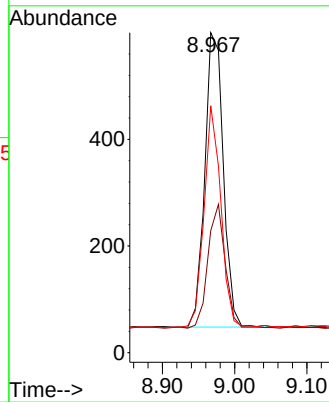
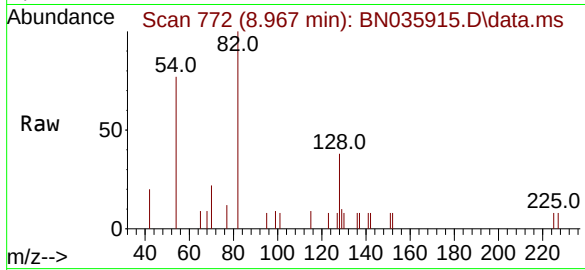




#8
Nitrobenzene-d5
Concen: 0.490 ng
RT: 8.967 min Scan# 71
Delta R.T. -0.014 min
Lab File: BN035915.D
Acq: 13 Jan 2025 10:44

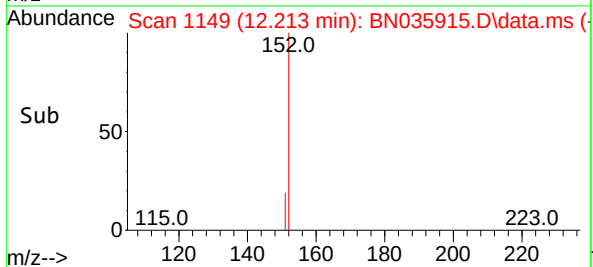
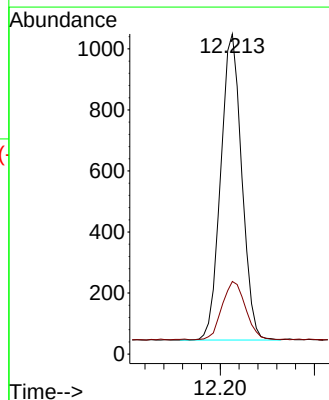
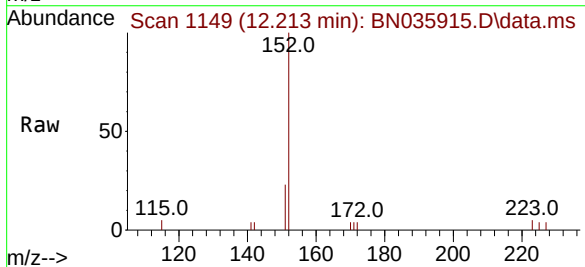
Instrument :
BNA_N
ClientSampleId :
PB166005BL

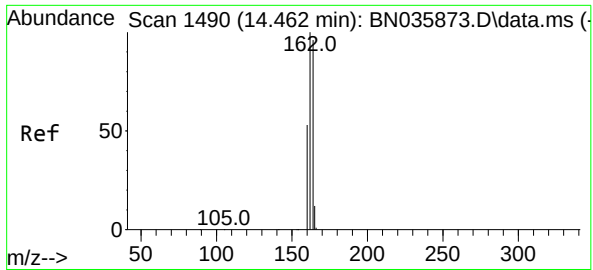
Tgt Ion: 82 Resp: 987
Ion Ratio Lower Upper
82 100
128 38.2 36.9 55.3
54 77.2 50.4 75.6#



#11
2-Methylnaphthalene-d10
Concen: 0.457 ng
RT: 12.213 min Scan# 1149
Delta R.T. -0.004 min
Lab File: BN035915.D
Acq: 13 Jan 2025 10:44

Tgt Ion: 152 Resp: 1557
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6

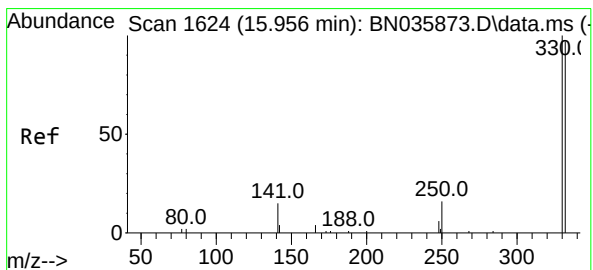
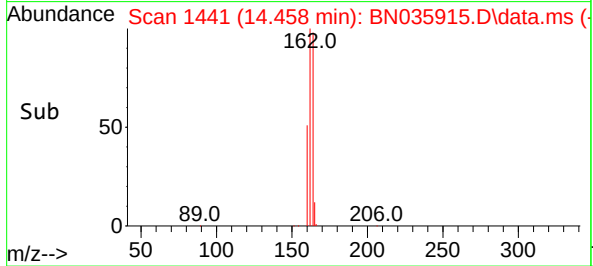
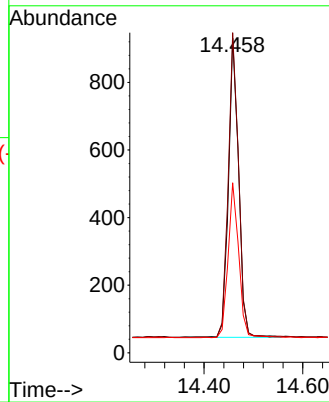
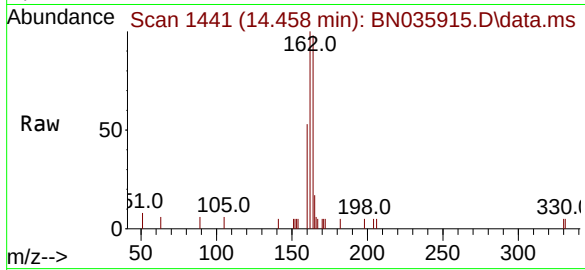




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.458 min Scan# 14
Delta R.T. -0.004 min
Lab File: BN035915.D
Acq: 13 Jan 2025 10:44

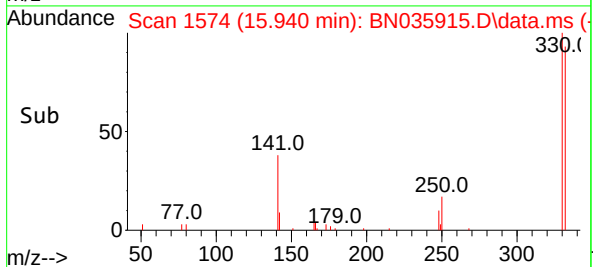
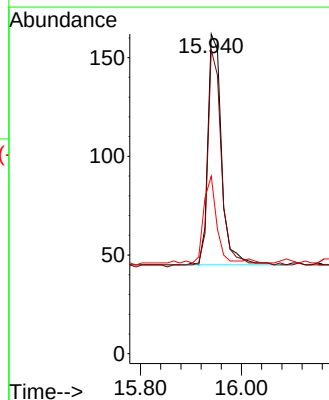
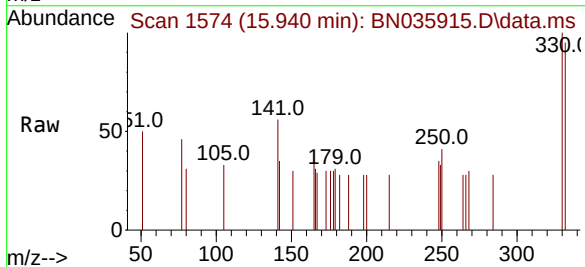
Instrument :
BNA_N
ClientSampleId :
PB166005BL

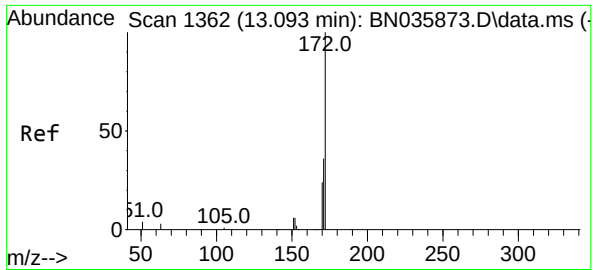
Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.7	83.1	124.7
160	54.0	46.0	69.0



#14
2,4,6-Tribromophenol
Concen: 0.364 ng
RT: 15.940 min Scan# 1574
Delta R.T. -0.016 min
Lab File: BN035915.D
Acq: 13 Jan 2025 10:44

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.7	77.2	115.8
141	34.8	31.6	47.4

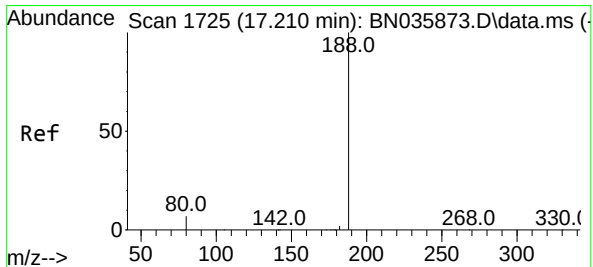
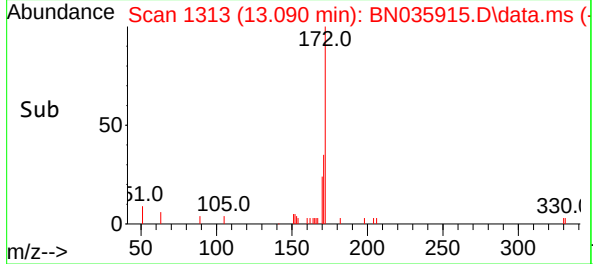
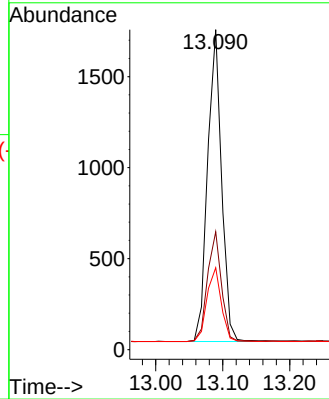
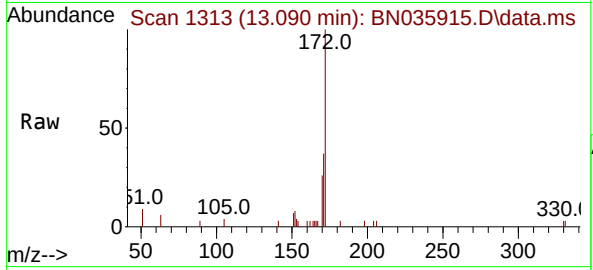




#15
2-Fluorobiphenyl
Concen: 0.445 ng
RT: 13.090 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN035915.D
Acq: 13 Jan 2025 10:44

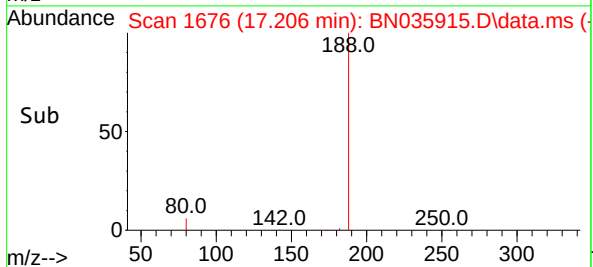
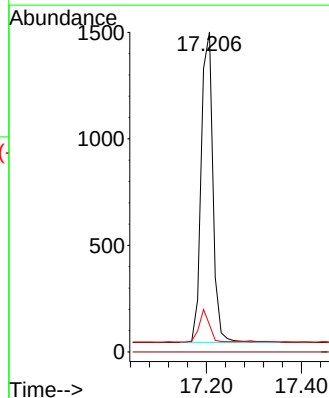
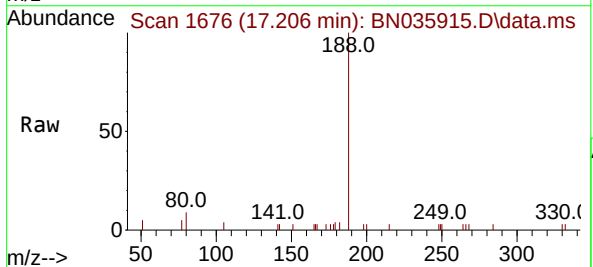
Instrument :
BNA_N
ClientSampleId :
PB166005BL

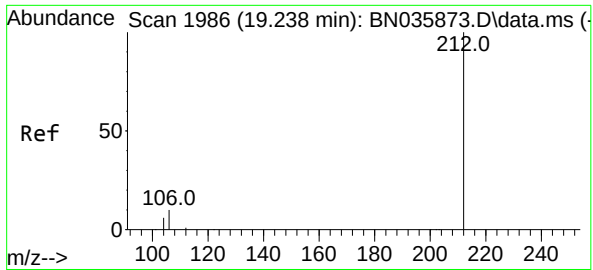
Tgt Ion:	172	Resp:	2470
Ion Ratio	Lower	Upper	
172	100		
171	36.9	30.5	45.7
170	25.6	20.8	31.2



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.206 min Scan# 1676
Delta R.T. -0.004 min
Lab File: BN035915.D
Acq: 13 Jan 2025 10:44

Tgt Ion:	188	Resp:	2501
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	8.5	7.3	10.9





#27

Fluoranthene-d10

Concen: 0.478 ng

RT: 19.229 min Scan# 1936

Delta R.T. -0.008 min

Lab File: BN035915.D

Acq: 13 Jan 2025 10:44

Instrument :

BNA_N

ClientSampleId :

PB166005BL

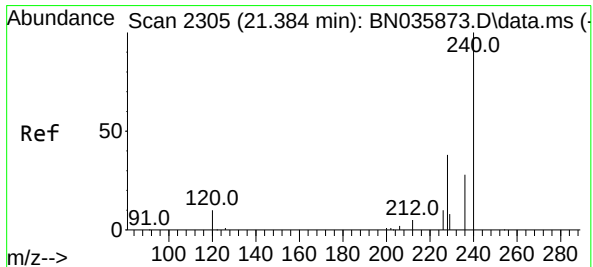
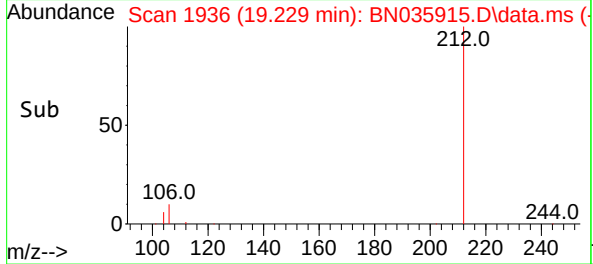
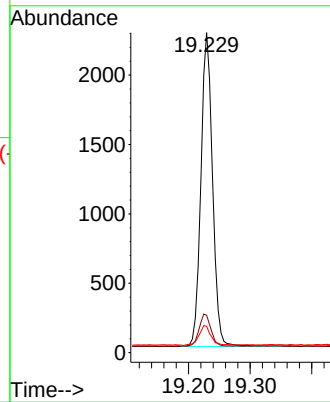
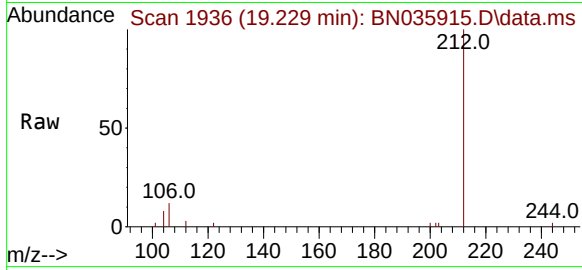
Tgt Ion:212 Resp: 2965

Ion Ratio Lower Upper

212 100

106 10.3 9.0 13.6

104 6.7 5.4 8.2



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.376 min Scan# 2256

Delta R.T. -0.008 min

Lab File: BN035915.D

Acq: 13 Jan 2025 10:44

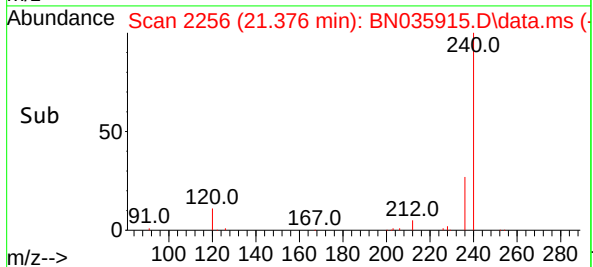
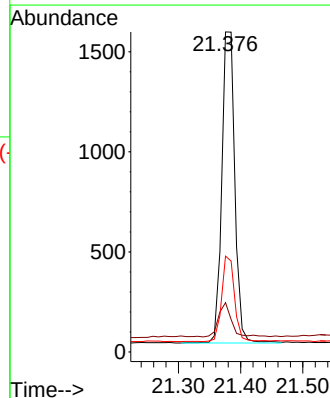
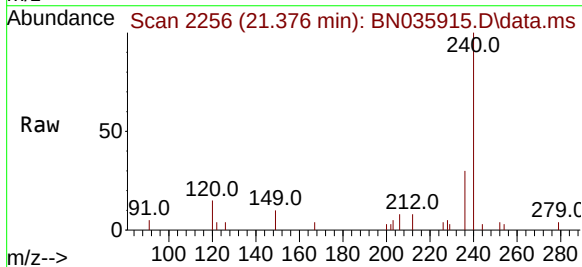
Tgt Ion:240 Resp: 2263

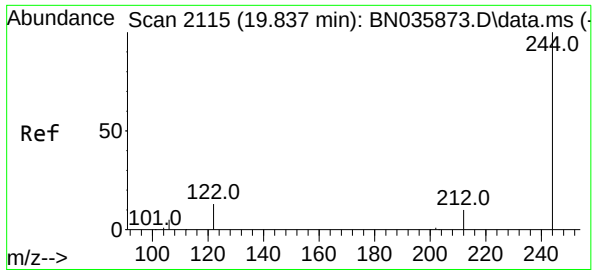
Ion Ratio Lower Upper

240 100

120 15.4 11.1 16.7

236 30.0 24.6 36.8

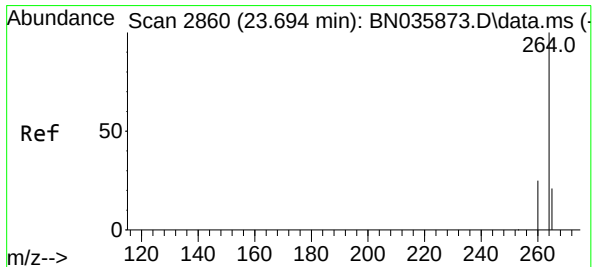
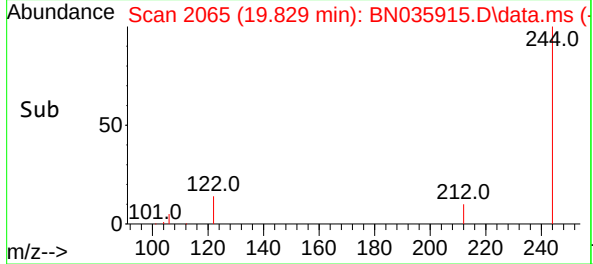
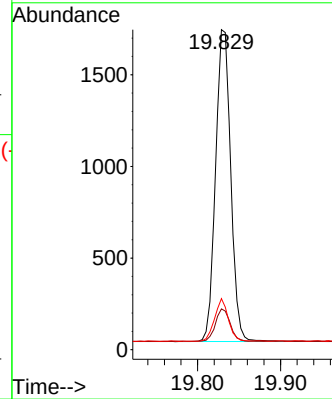
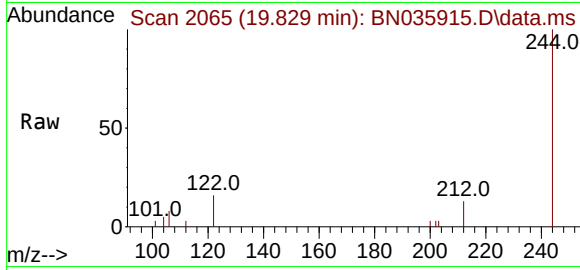




#31
Terphenyl-d14
Concen: 0.479 ng
RT: 19.829 min Scan# 20
Delta R.T. -0.008 min
Lab File: BN035915.D
Acq: 13 Jan 2025 10:44

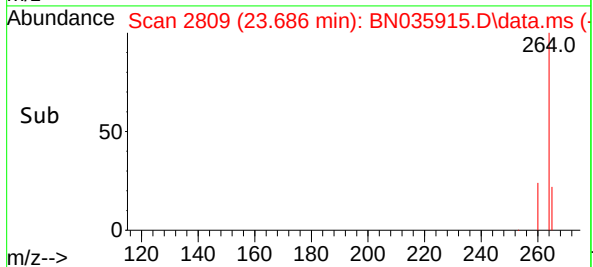
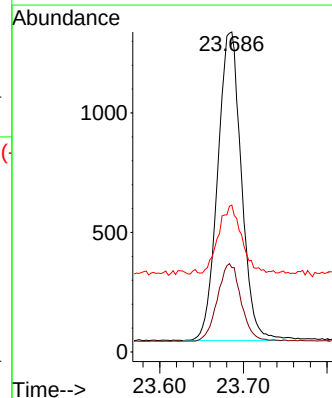
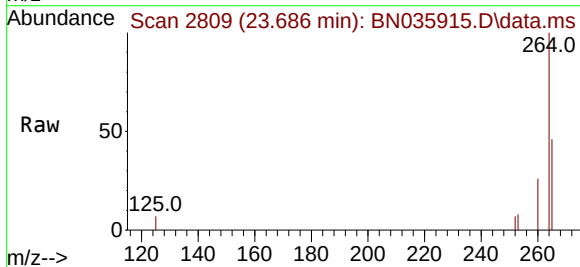
Instrument :
BNA_N
ClientSampleId :
PB166005BL

Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.8	10.1	15.1
122	16.0	12.2	18.4



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.686 min Scan# 2809
Delta R.T. -0.008 min
Lab File: BN035915.D
Acq: 13 Jan 2025 10:44

Tgt Ion	Ratio	Lower	Upper
264	100		
260	26.4	21.7	32.5
265	45.9	33.9	50.9



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	RW5B FT WC - # 112G08005-WE13	Date Received:	
Client Sample ID:	PB166005BS	SDG No.:	Q1040
Lab Sample ID:	PB166005BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035917.D	1	01/10/25 08:10	01/13/25 11:56	PB166005

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.41		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.47		30 - 150		116%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.50	*	55 - 111		126%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.48	*	53 - 106		119%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		120%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	934		7.832			
1146-65-2	Naphthalene-d8	1770		10.622			
15067-26-2	Acenaphthene-d10	843		14.463			
1517-22-2	Phenanthrene-d10	1500		17.199			
1719-03-5	Chrysene-d12	1250		21.376			
1520-96-3	Perylene-d12	1530		23.68			

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\BN011325\
 Data File : BN035917.D
 Acq On : 13 Jan 2025 11:56
 Operator : RC/JU
 Sample : PB166005BS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB166005BS

Quant Time: Jan 13 12:20:54 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

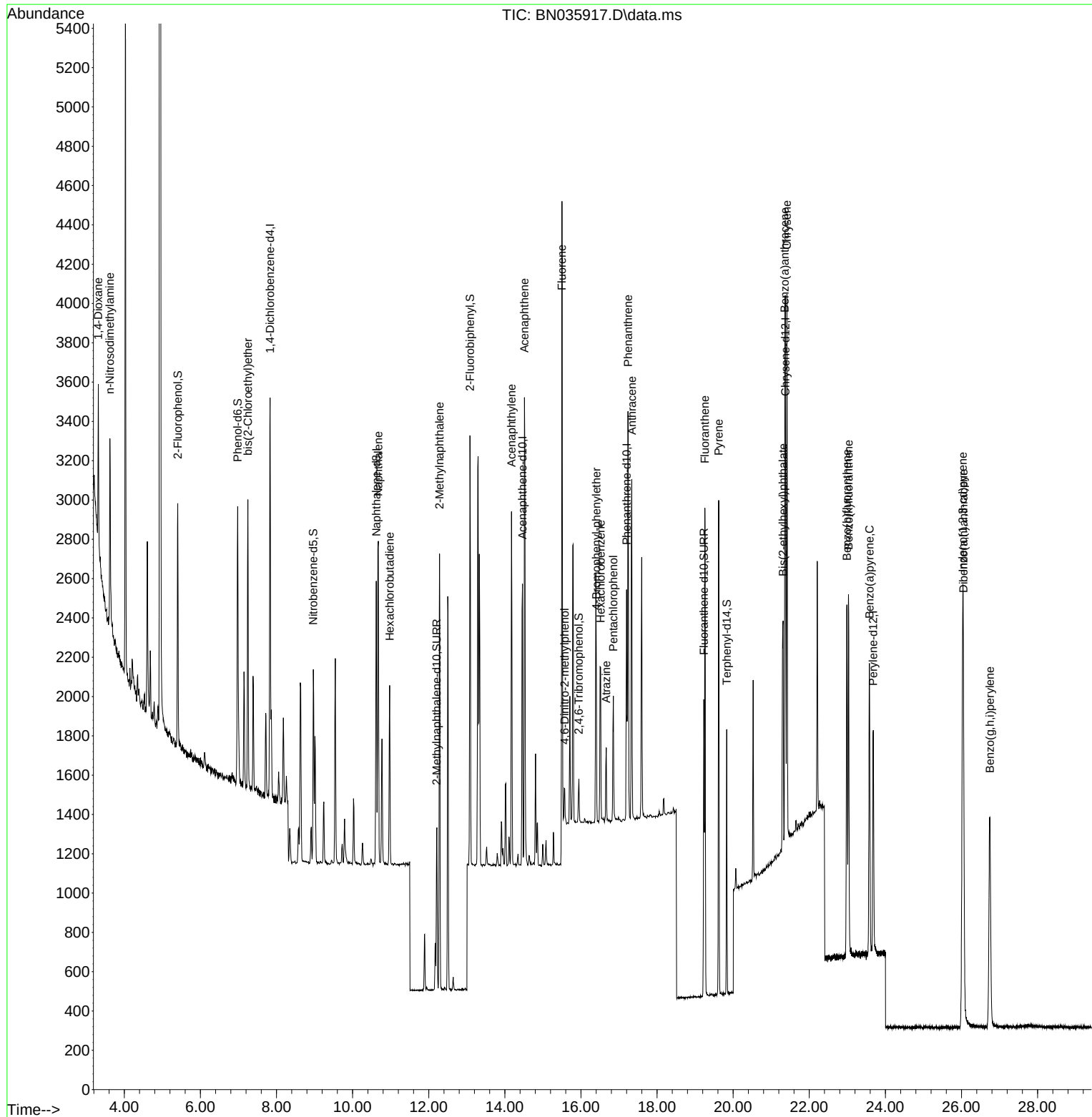
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.832	152	934	0.400	ng	0.00
7) Naphthalene-d8	10.622	136	1774	0.400	ng	0.00
13) Acenaphthene-d10	14.463	164	843	0.400	ng	0.00
19) Phenanthrene-d10	17.199	188	1498	0.400	ng	#-0.01
29) Chrysene-d12	21.376	240	1254	0.400	ng	0.00
35) Perylene-d12	23.680	264	1525	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.405	112	879	0.384	ng	0.00
5) Phenol-d6	6.979	99	998	0.351	ng	0.00
8) Nitrobenzene-d5	8.967	82	708	0.504	ng	-0.01
11) 2-Methylnaphthalene-d10	12.208	152	1104	0.465	ng	0.00
14) 2,4,6-Tribromophenol	15.945	330	130	0.321	ng	-0.01
15) 2-Fluorobiphenyl	13.084	172	1759	0.476	ng	0.00
27) Fluoranthene-d10	19.230	212	1654	0.445	ng	0.00
31) Terphenyl-d14	19.829	244	1204	0.482	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.318	88	380	0.410	ng	# 76
3) n-Nitrosodimethylamine	3.621	42	779	0.481	ng	# 87
6) bis(2-Chloroethyl)ether	7.247	93	939	0.433	ng	98
9) Naphthalene	10.675	128	2241	0.450	ng	99
10) Hexachlorobutadiene	10.974	225	729	0.451	ng	# 99
12) 2-Methylnaphthalene	12.284	142	1397	0.453	ng	98
16) Acenaphthylene	14.174	152	1888	0.476	ng	98
17) Acenaphthene	14.516	154	1213	0.466	ng	98
18) Fluorene	15.500	166	1230	0.430	ng	98
20) 4,6-Dinitro-2-methylph...	15.573	198	190	0.730	ng	# 81
21) 4-Bromophenyl-phenylether	16.404	248	496	0.483	ng	# 76
22) Hexachlorobenzene	16.516	284	665	0.475	ng	97
23) Atrazine	16.665	200	310	0.450	ng	92
24) Pentachlorophenol	16.851	266	333	0.672	ng	96
25) Phenanthrene	17.236	178	2112	0.483	ng	98
26) Anthracene	17.335	178	1898	0.477	ng	98
28) Fluoranthene	19.258	202	2216	0.435	ng	98
30) Pyrene	19.620	202	2246	0.441	ng	99
32) Benzo(a)anthracene	21.358	228	2107	0.477	ng	98
33) Chrysene	21.412	228	2177	0.471	ng	99
34) Bis(2-ethylhexyl)phtha...	21.313	149	886	0.493	ng	# 99
36) Indeno(1,2,3-cd)pyrene	26.031	276	2991	0.497	ng	96
37) Benzo(b)fluoranthene	22.988	252	2323	0.443	ng	97
38) Benzo(k)fluoranthene	23.031	252	2343	0.452	ng	98
39) Benzo(a)pyrene	23.581	252	2198	0.485	ng	97
40) Dibenzo(a,h)anthracene	26.049	278	2383	0.498	ng	96
41) Benzo(g,h,i)perylene	26.744	276	2393	0.447	ng	97

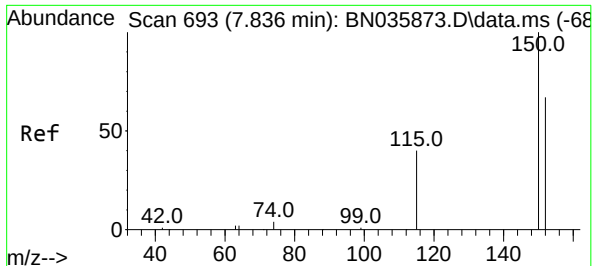
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011325\
Data File : BN035917.D
Acq On : 13 Jan 2025 11:56
Operator : RC/JU
Sample : PB166005BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB166005BS

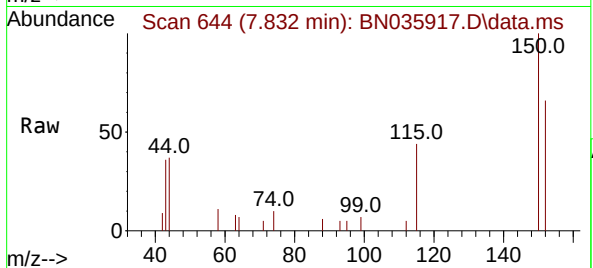
Quant Time: Jan 13 12:20:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration



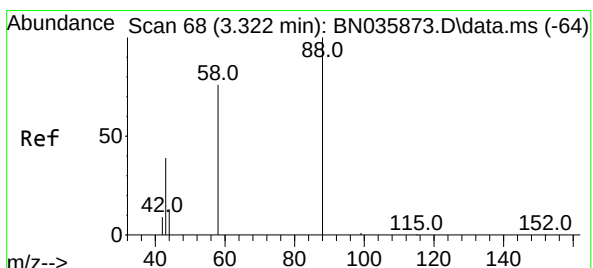
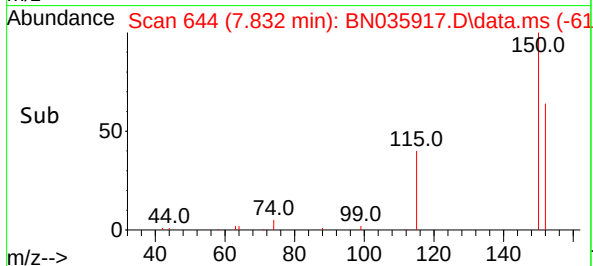
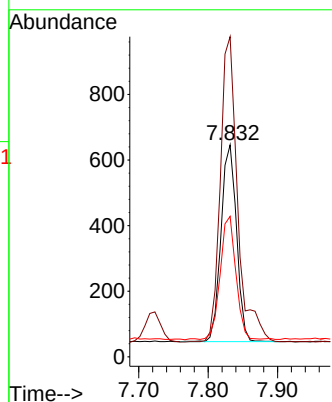


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.832 min Scan# 64
Delta R.T. -0.004 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

Instrument :
BNA_N
ClientSampleId :
PB166005BS

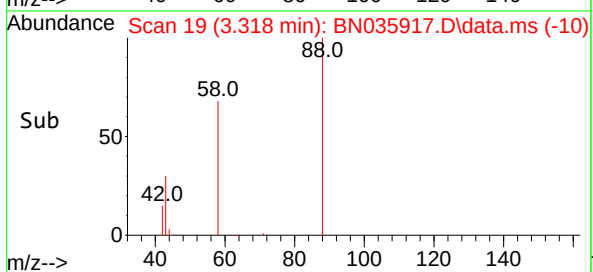
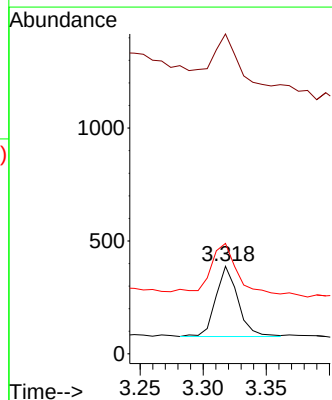
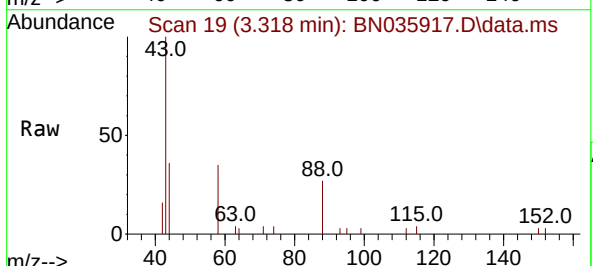


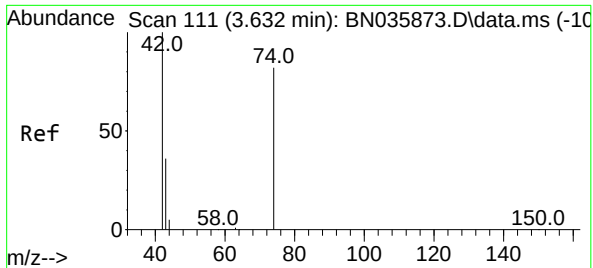
Tgt Ion: 152 Resp: 934
Ion Ratio Lower Upper
152 100
150 151.1 117.8 176.6
115 66.3 51.0 76.4



#2
1,4-Dioxane
Concen: 0.410 ng
RT: 3.318 min Scan# 19
Delta R.T. -0.004 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

Tgt Ion: 88 Resp: 380
Ion Ratio Lower Upper
88 100
43 76.6 32.7 49.1#
58 84.7 63.0 94.4

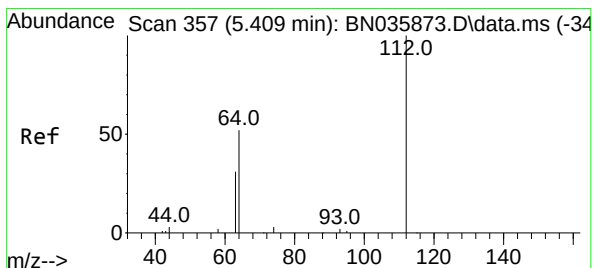
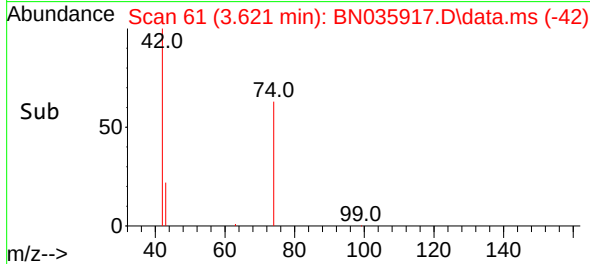
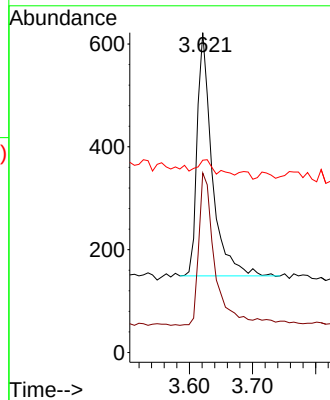
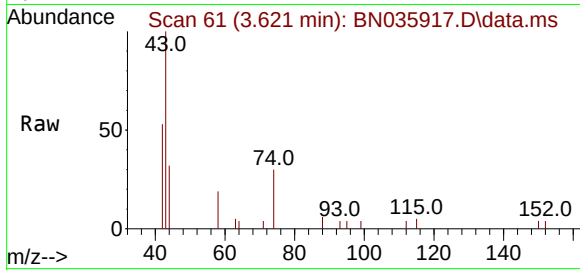




#3
n-Nitrosodimethylamine
Concen: 0.481 ng
RT: 3.621 min Scan# 61
Delta R.T. -0.011 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

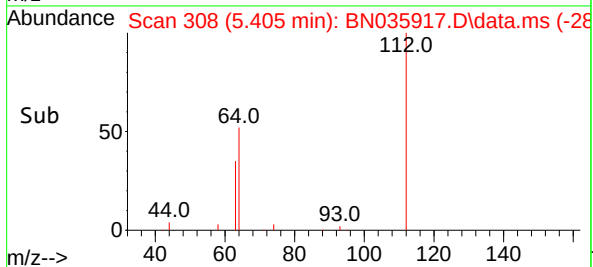
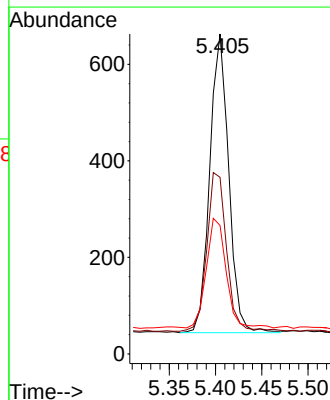
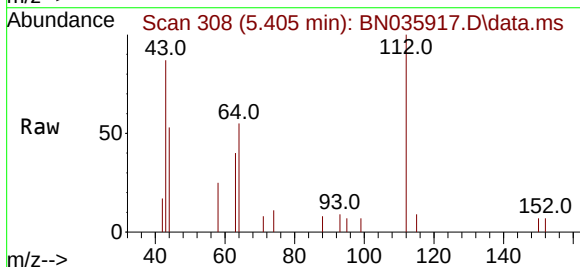
Instrument :
BNA_N
ClientSampleId :
PB166005BS

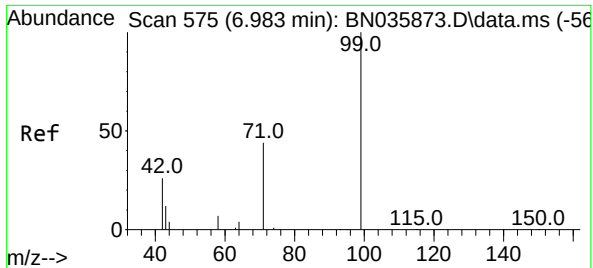
Tgt Ion: 42 Resp: 779
Ion Ratio Lower Upper
42 100
74 65.5 62.2 93.2
44 6.9 7.1 10.7#



#4
2-Fluorophenol
Concen: 0.384 ng
RT: 5.405 min Scan# 308
Delta R.T. -0.004 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

Tgt Ion: 112 Resp: 879
Ion Ratio Lower Upper
112 100
64 55.7 48.2 72.2
63 38.3 30.0 45.0

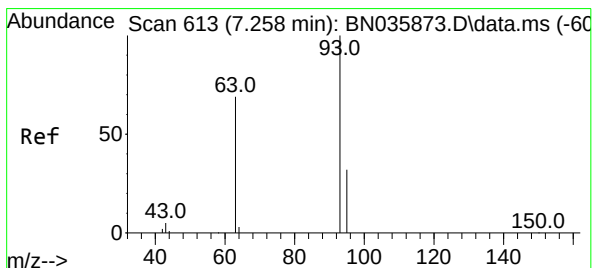
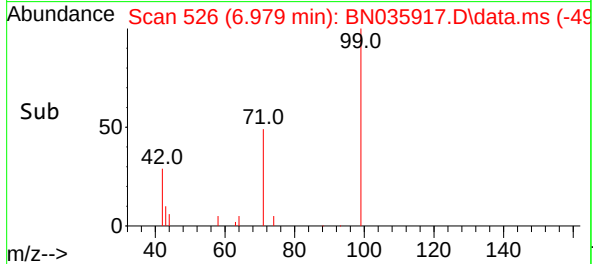
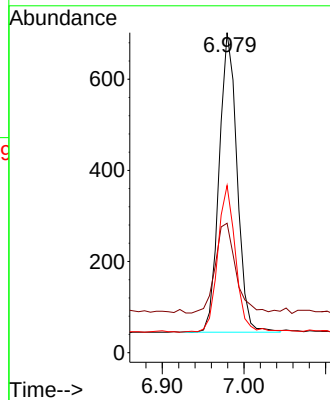
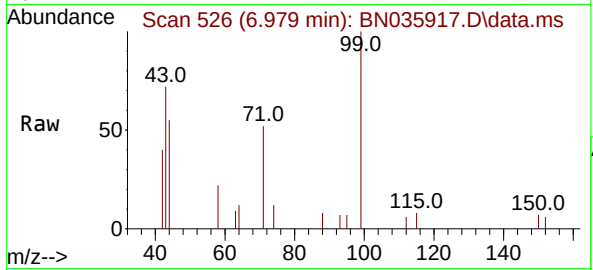




#5
Phenol-d6
Concen: 0.351 ng
RT: 6.979 min Scan# 51
Delta R.T. -0.004 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

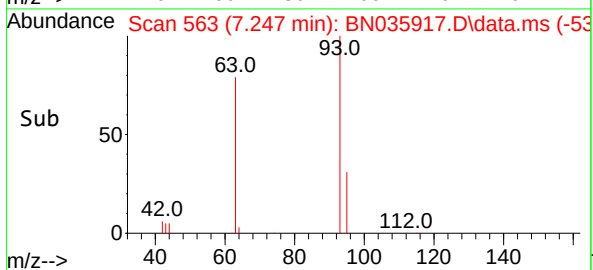
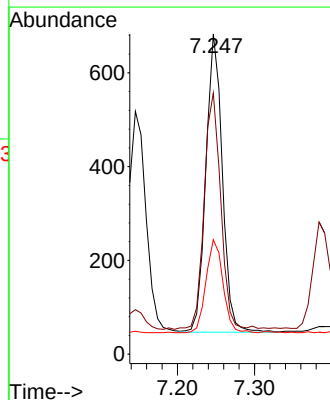
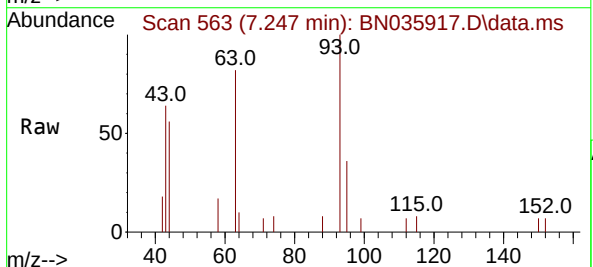
Instrument :
BNA_N
ClientSampleId :
PB166005BS

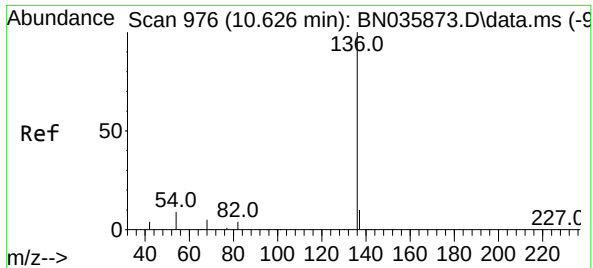
Tgt Ion	Ratio	Lower	Upper
99	100		
42	34.5	23.5	35.3
71	49.5	35.5	53.3



#6
bis(2-Chloroethyl)ether
Concen: 0.433 ng
RT: 7.247 min Scan# 563
Delta R.T. -0.011 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

Tgt Ion	Ratio	Lower	Upper
93	100		
63	79.7	62.0	93.0
95	31.9	25.5	38.3

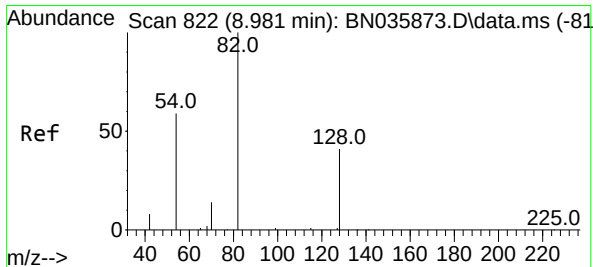
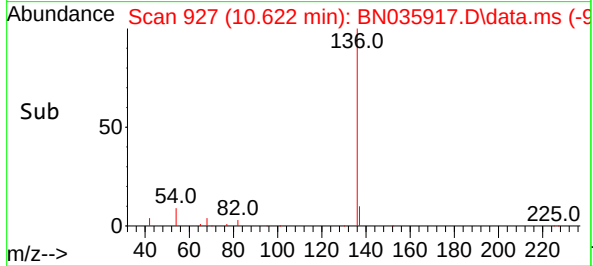
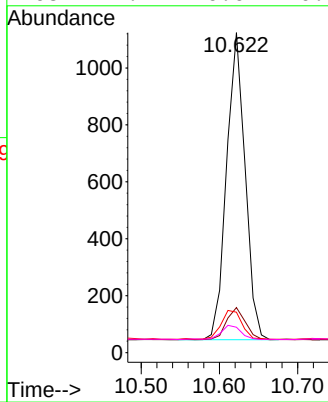
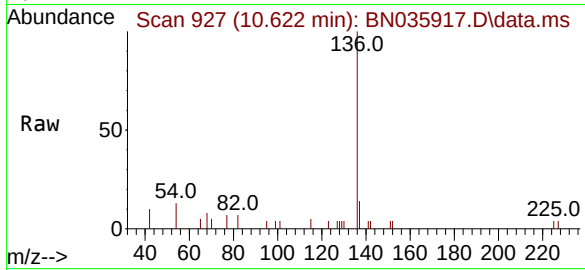




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.622 min Scan# 91
Delta R.T. -0.004 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

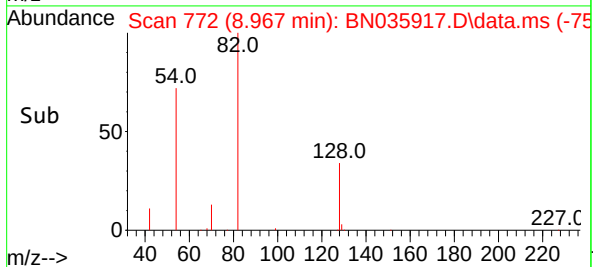
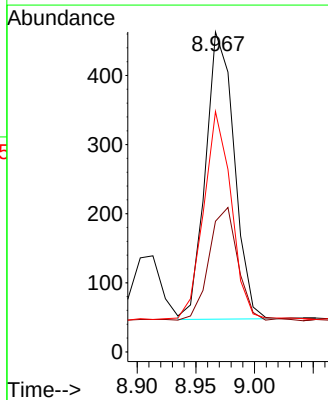
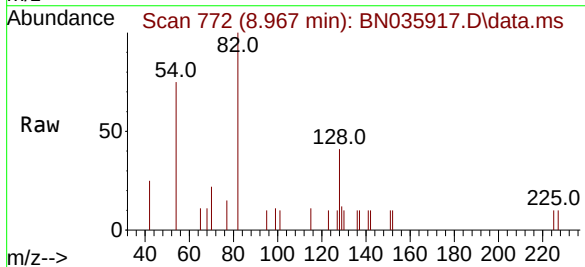
Instrument :
BNA_N
ClientSampleId :
PB166005BS

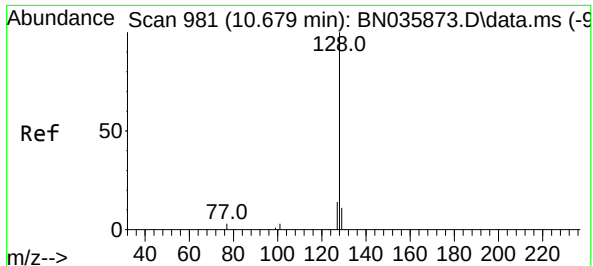
Tgt Ion:	136	Resp:	1774
Ion	Ratio	Lower	Upper
136	100		
137	14.1	10.6	15.8
54	12.6	9.8	14.6
68	7.9	6.6	10.0



#8
Nitrobenzene-d5
Concen: 0.504 ng
RT: 8.967 min Scan# 772
Delta R.T. -0.015 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

Tgt Ion:	82	Resp:	708
Ion	Ratio	Lower	Upper
82	100		
128	40.8	36.9	55.3
54	75.2	50.4	75.6

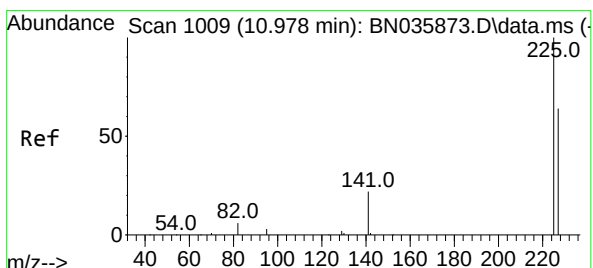
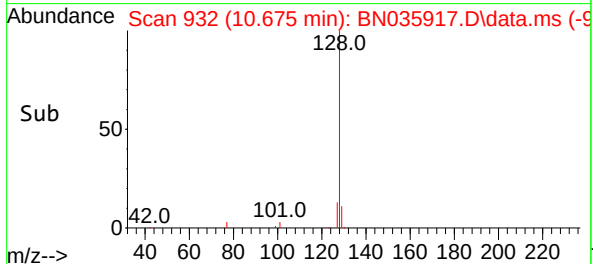
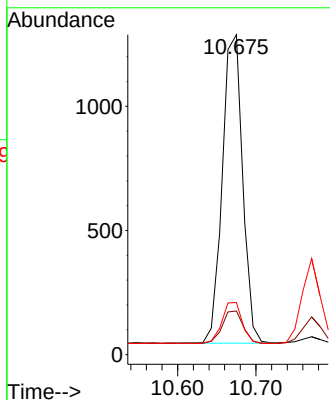
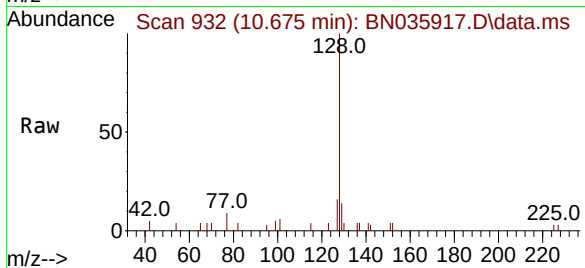




#9
Naphthalene
Concen: 0.450 ng
RT: 10.675 min Scan# 91
Delta R.T. -0.004 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

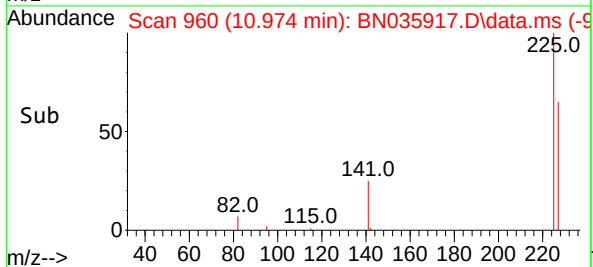
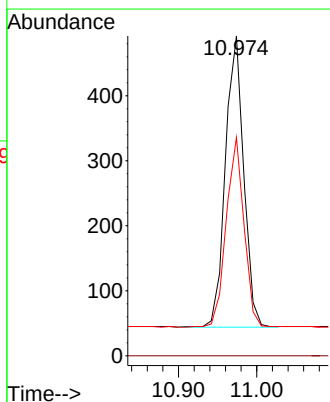
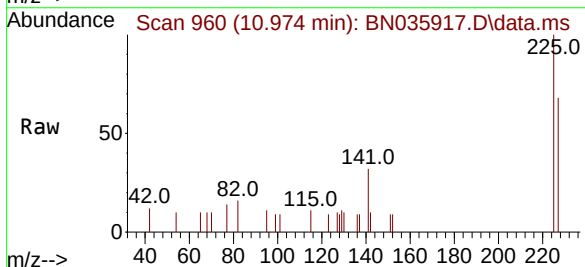
Instrument :
BNA_N
ClientSampleId :
PB166005BS

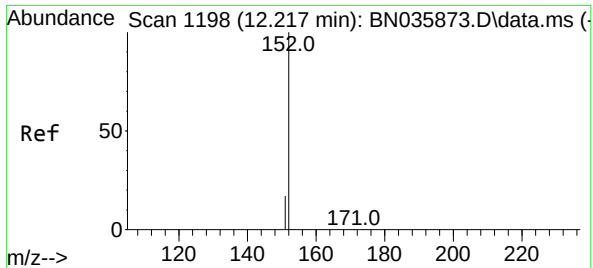
Tgt Ion:128 Resp: 2241
Ion Ratio Lower Upper
128 100
129 13.7 10.6 16.0
127 16.3 12.8 19.2



#10
Hexachlorobutadiene
Concen: 0.451 ng
RT: 10.974 min Scan# 960
Delta R.T. -0.004 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

Tgt Ion:225 Resp: 729
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 51.5 77.3

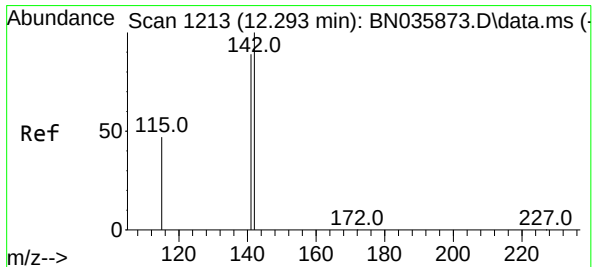
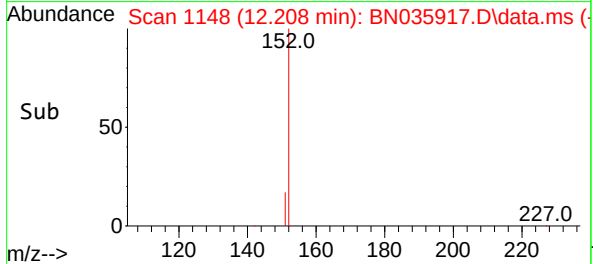
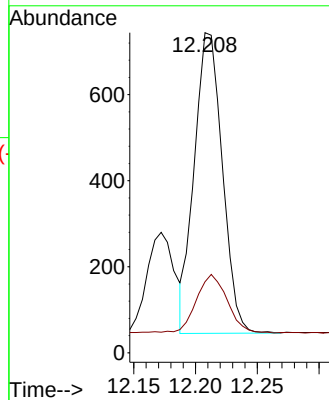
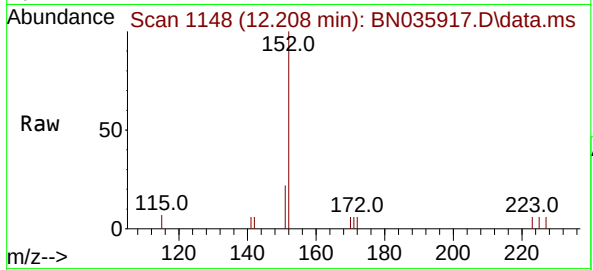




#11
2-Methylnaphthalene-d10
Concen: 0.465 ng
RT: 12.208 min Scan# 1163
Delta R.T. -0.009 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

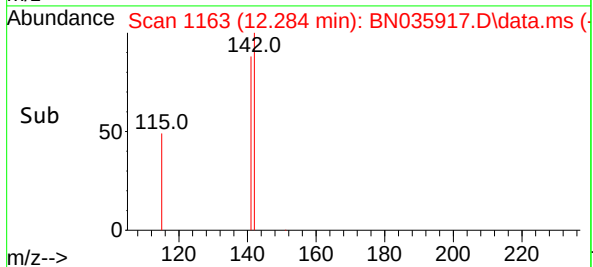
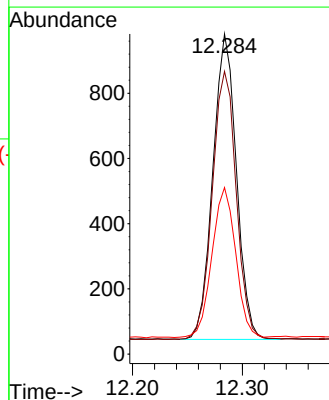
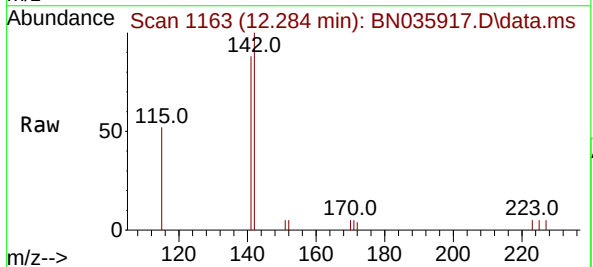
Instrument :
BNA_N
ClientSampleId :
PB166005BS

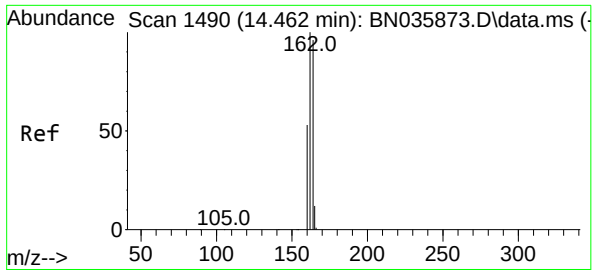
Tgt Ion:152 Resp: 1104
Ion Ratio Lower Upper
152 100
151 22.4 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.453 ng
RT: 12.284 min Scan# 1163
Delta R.T. -0.009 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

Tgt Ion:142 Resp: 1397
Ion Ratio Lower Upper
142 100
141 88.3 71.9 107.9
115 52.0 39.6 59.4

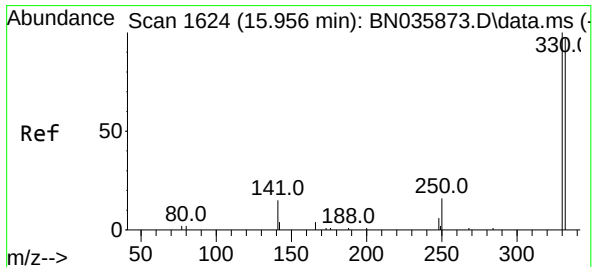
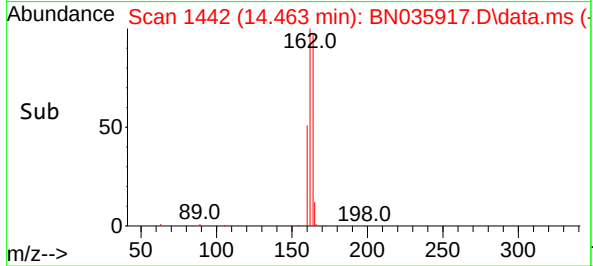
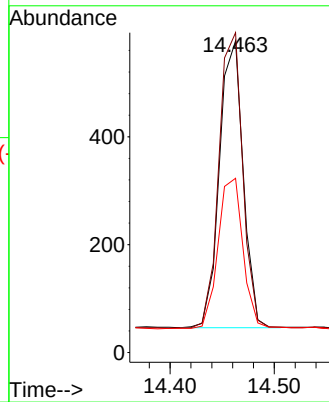
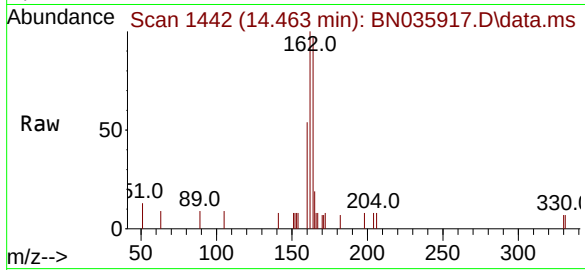




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.463 min Scan# 14
Delta R.T. 0.001 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

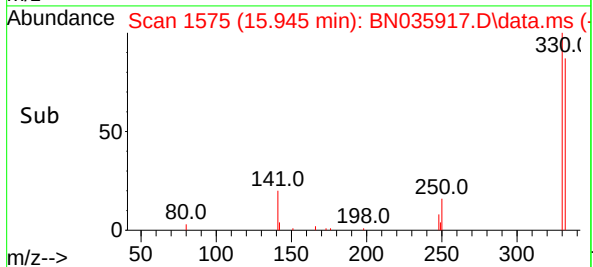
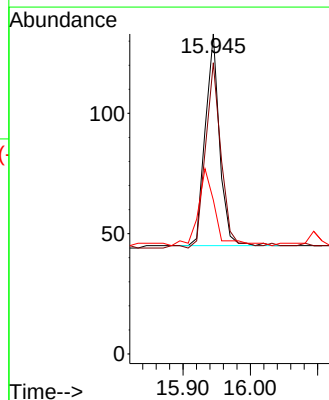
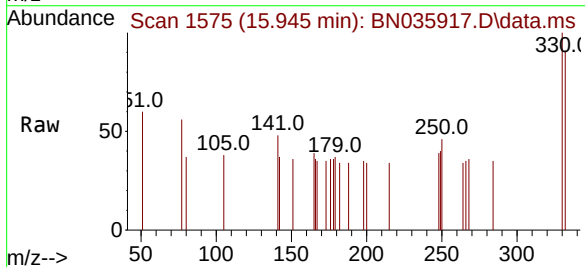
Instrument :
BNA_N
ClientSampleId :
PB166005BS

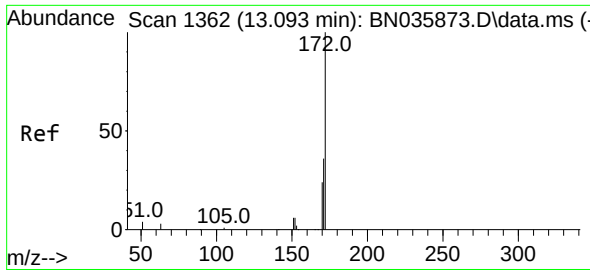
Tgt Ion	164	Resp:	843
Ion Ratio	Lower	Upper	
164	100		
162	102.6	83.1	124.7
160	55.9	46.0	69.0



#14
2,4,6-Tribromophenol
Concen: 0.321 ng
RT: 15.945 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

Tgt Ion	330	Resp:	130
Ion Ratio	Lower	Upper	
330	100		
332	97.7	77.2	115.8
141	42.3	31.6	47.4





#15

2-Fluorobiphenyl

Concen: 0.476 ng

RT: 13.084 min Scan# 1415

Delta R.T. -0.010 min

Lab File: BN035917.D

Acq: 13 Jan 2025 11:56

Instrument :

BNA_N

ClientSampleId :

PB166005BS

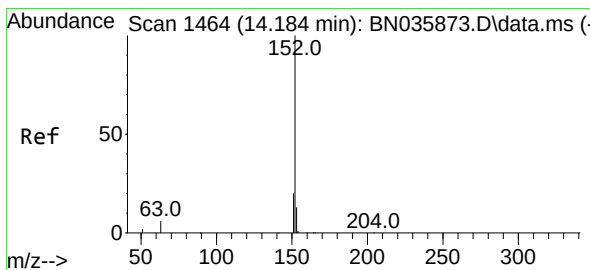
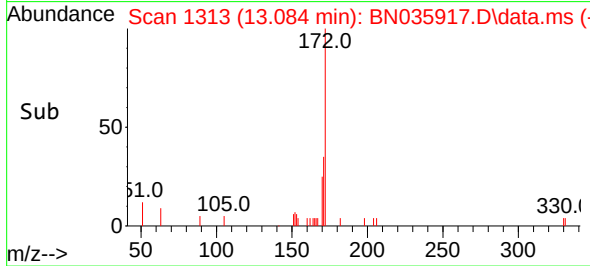
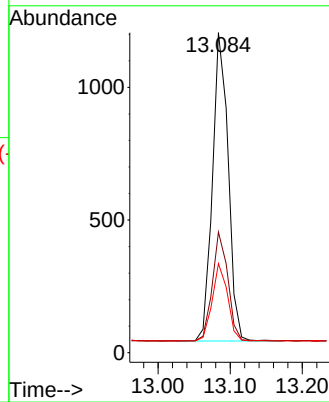
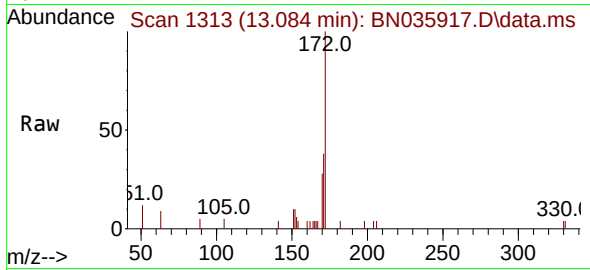
Tgt Ion:172 Resp: 1759

Ion Ratio Lower Upper

172 100

171 37.7 30.5 45.7

170 27.9 20.8 31.2



#16

Acenaphthylene

Concen: 0.476 ng

RT: 14.174 min Scan# 1415

Delta R.T. -0.010 min

Lab File: BN035917.D

Acq: 13 Jan 2025 11:56

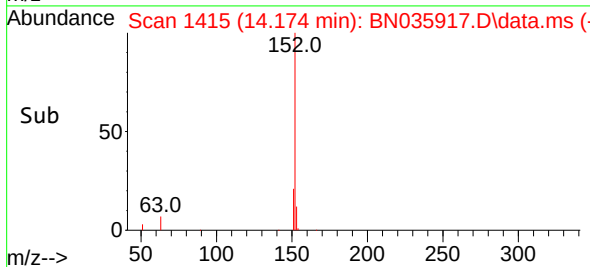
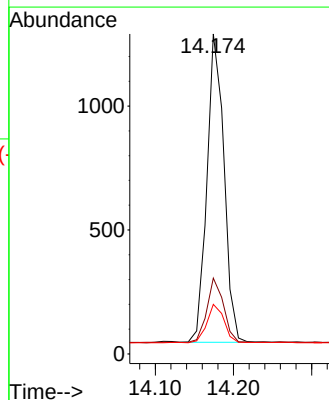
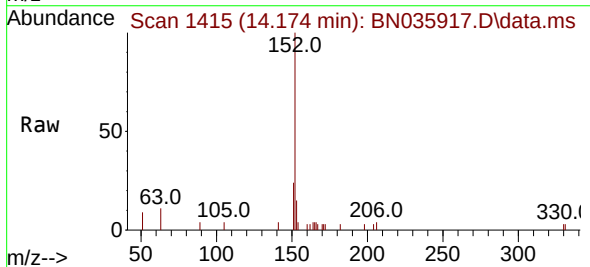
Tgt Ion:152 Resp: 1888

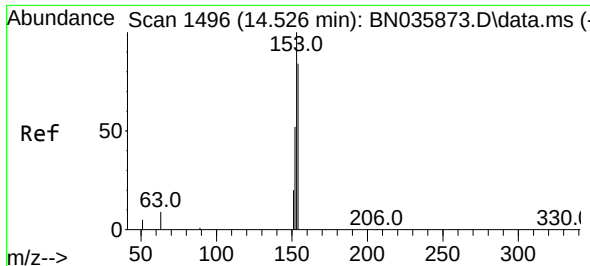
Ion Ratio Lower Upper

152 100

151 21.2 16.3 24.5

153 12.7 10.6 15.8

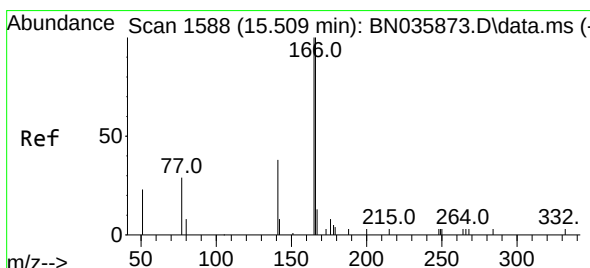
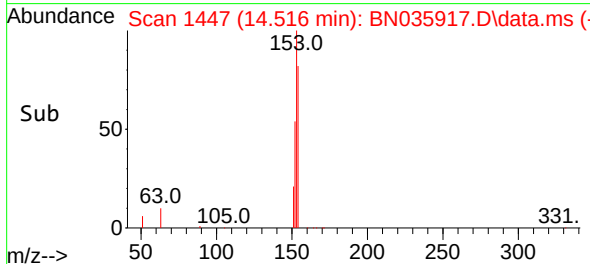
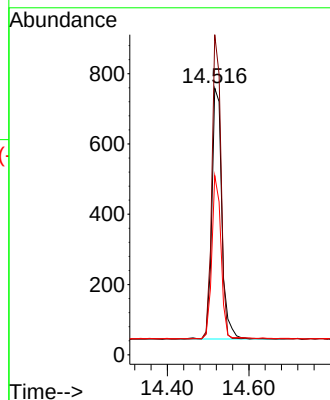
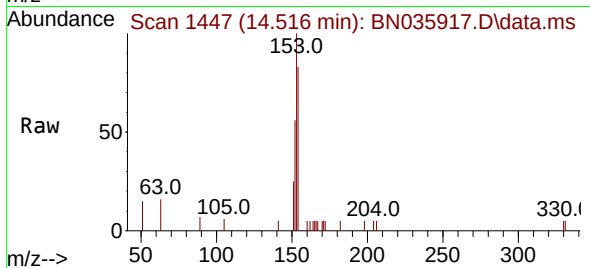




#17
Acenaphthene
Concen: 0.466 ng
RT: 14.516 min Scan# 1496
Delta R.T. -0.010 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

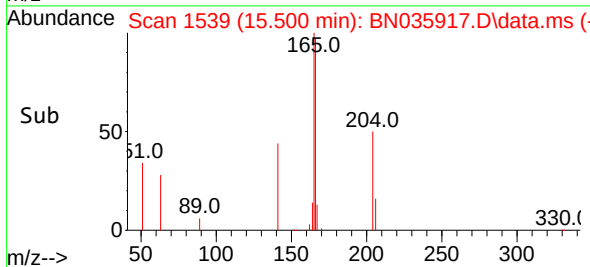
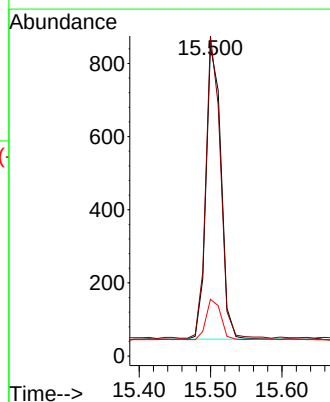
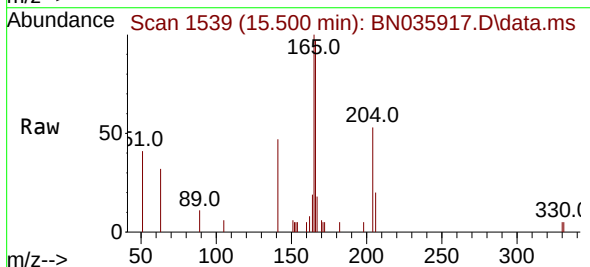
Instrument :
BNA_N
ClientSampleId :
PB166005BS

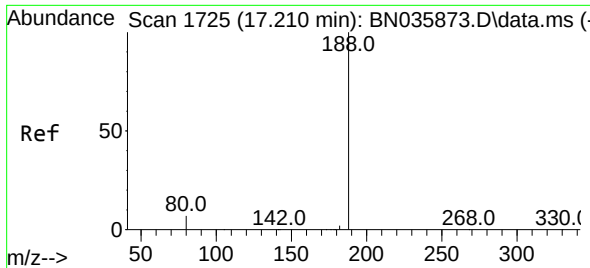
Tgt Ion:154 Resp: 1213
Ion Ratio Lower Upper
154 100
153 110.1 90.5 135.7
152 59.7 48.6 73.0



#18
Fluorene
Concen: 0.430 ng
RT: 15.500 min Scan# 1539
Delta R.T. -0.010 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

Tgt Ion:166 Resp: 1230
Ion Ratio Lower Upper
166 100
165 98.4 80.6 120.8
167 13.1 11.4 17.0

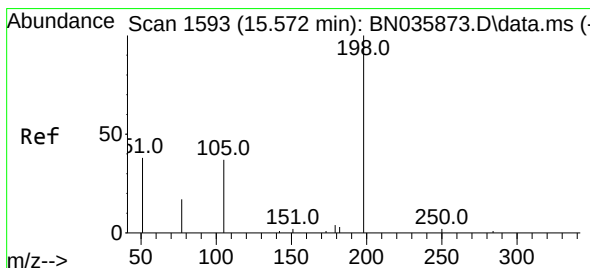
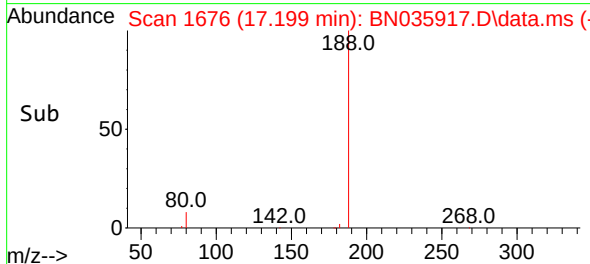
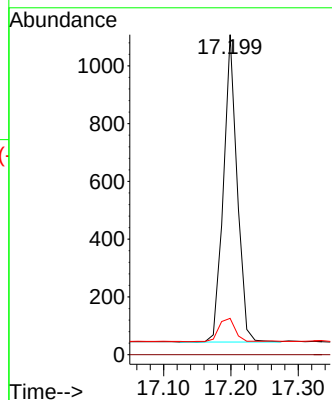
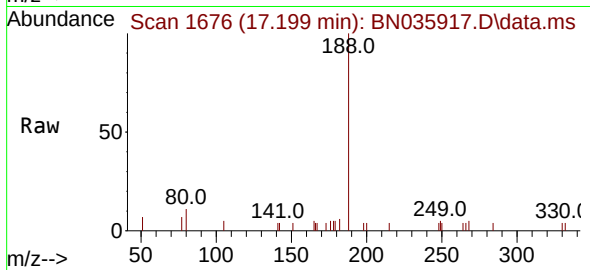




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.199 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

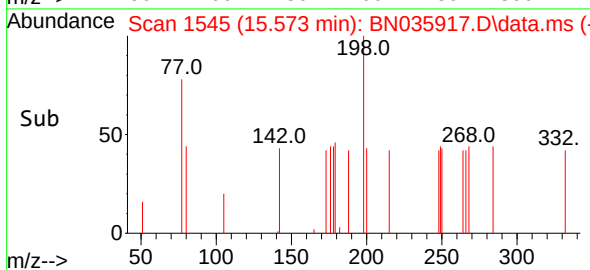
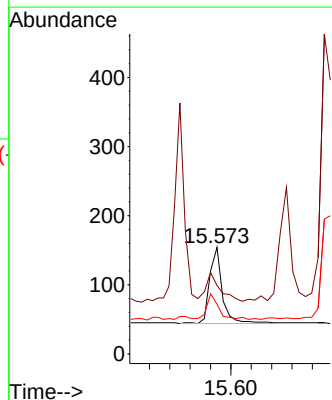
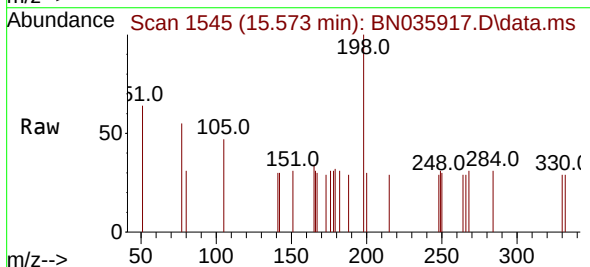
Instrument :
BNA_N
ClientSampleId :
PB166005BS

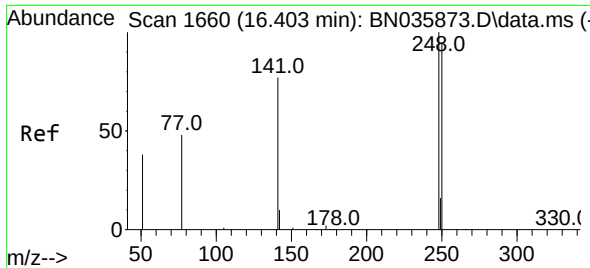
Tgt Ion:188 Resp: 1498
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.4 7.3 10.9#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.730 ng
RT: 15.573 min Scan# 1545
Delta R.T. 0.001 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

Tgt Ion:198 Resp: 190
Ion Ratio Lower Upper
198 100
51 64.3 64.3 96.5#
105 46.8 50.0 75.0#

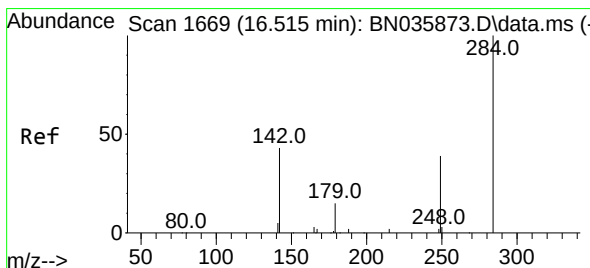
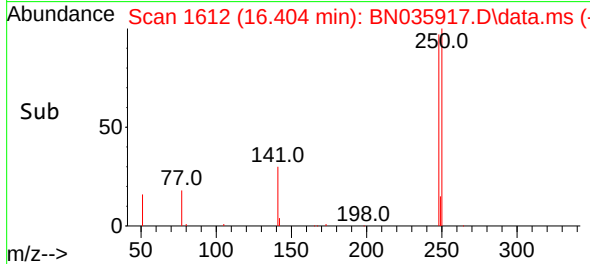
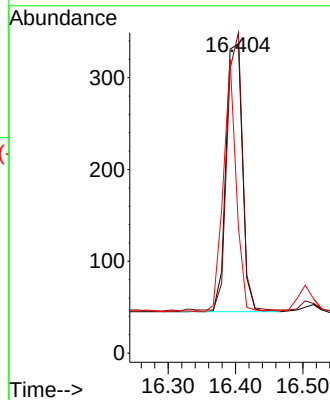
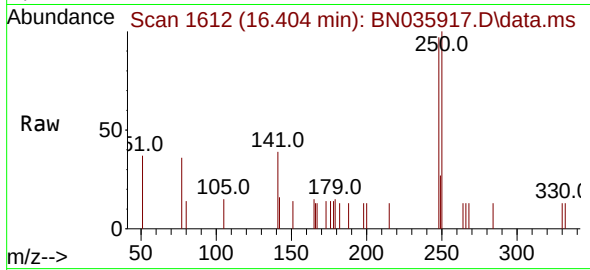




#21
4-Bromophenyl-phenylether
Concen: 0.483 ng
RT: 16.404 min Scan# 1612
Delta R.T. 0.001 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

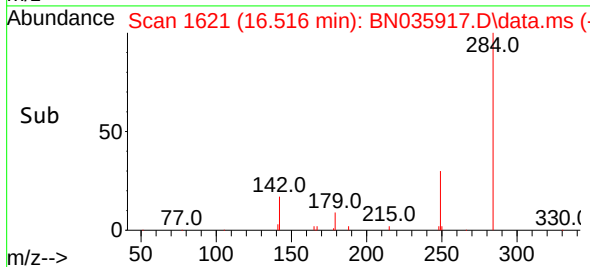
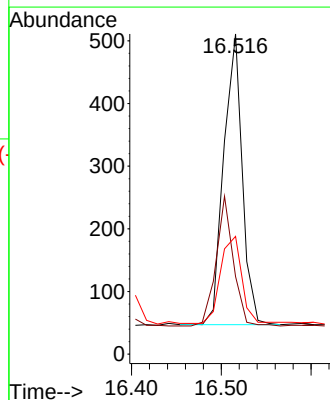
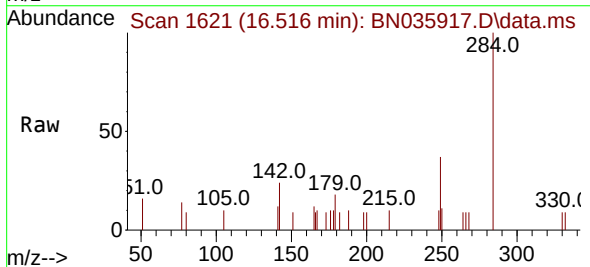
Instrument :
BNA_N
ClientSampleId :
PB166005BS

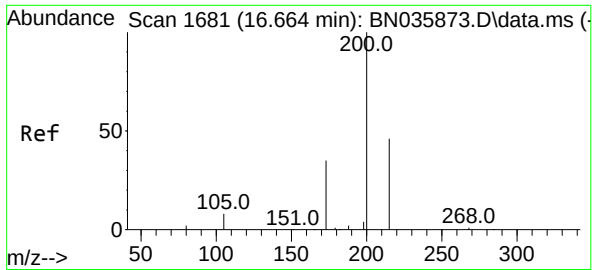
Tgt Ion:248 Resp: 496
Ion Ratio Lower Upper
248 100
250 103.6 76.8 115.2
141 40.7 63.6 95.4#



#22
Hexachlorobenzene
Concen: 0.475 ng
RT: 16.516 min Scan# 1621
Delta R.T. 0.001 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

Tgt Ion:284 Resp: 665
Ion Ratio Lower Upper
284 100
142 41.8 31.4 47.0
249 36.2 27.8 41.8

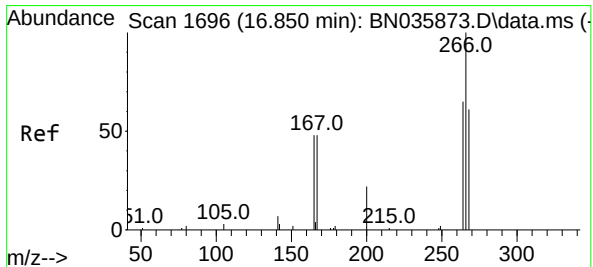
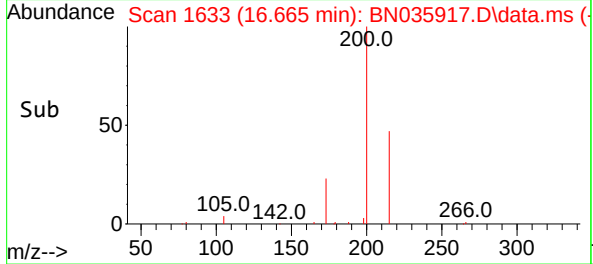
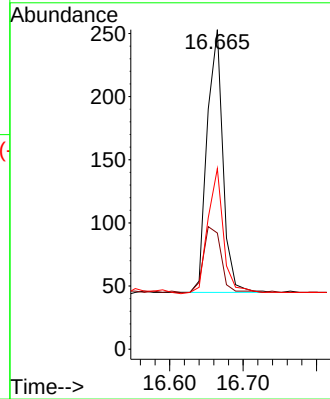
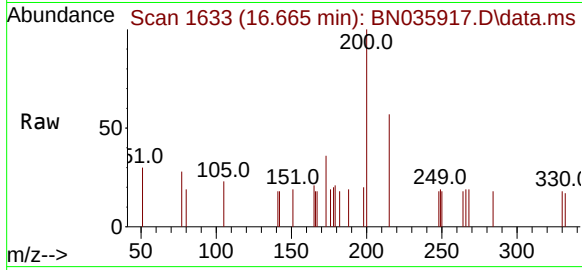




#23
Atrazine
Concen: 0.450 ng
RT: 16.665 min Scan# 1633
Delta R.T. 0.001 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

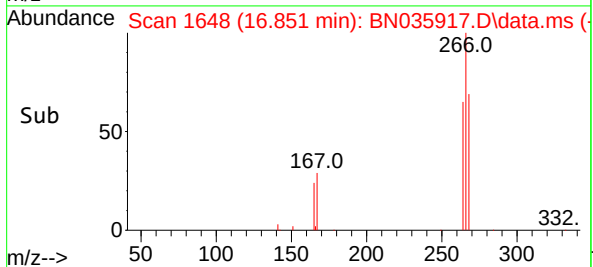
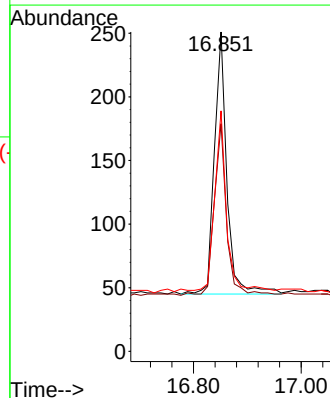
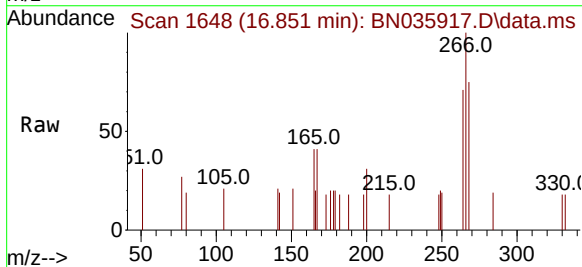
Instrument :
BNA_N
ClientSampleId :
PB166005BS

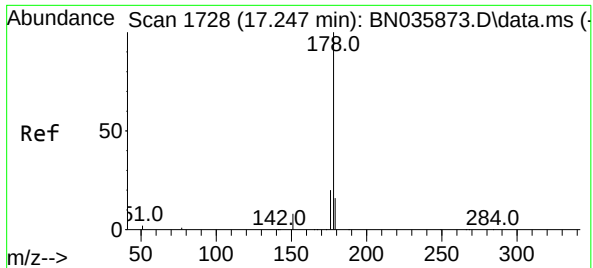
Tgt Ion:	200	Resp:	310
Ion	Ratio	Lower	Upper
200	100		
173	36.4	35.4	53.0
215	56.5	42.4	63.6



#24
Pentachlorophenol
Concen: 0.672 ng
RT: 16.851 min Scan# 1648
Delta R.T. 0.001 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

Tgt Ion:	266	Resp:	333
Ion	Ratio	Lower	Upper
266	100		
264	64.3	49.9	74.9
268	67.6	50.2	75.2

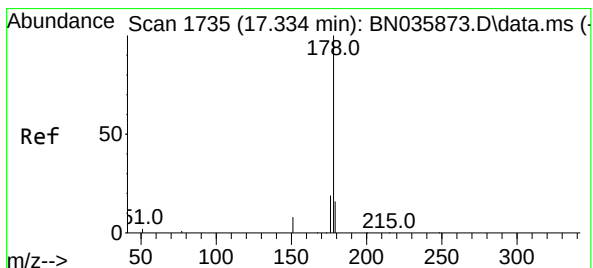
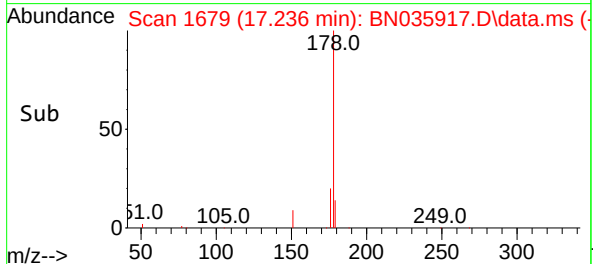
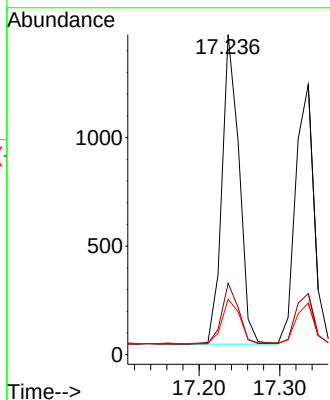
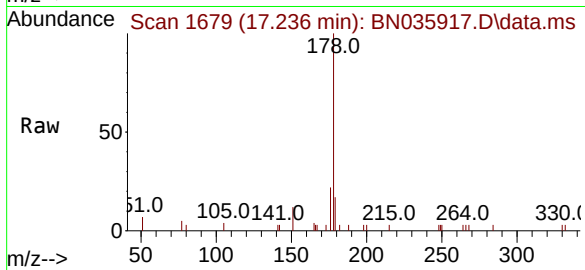




#25
Phenanthrene
Concen: 0.483 ng
RT: 17.236 min Scan# 1687
Delta R.T. -0.011 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

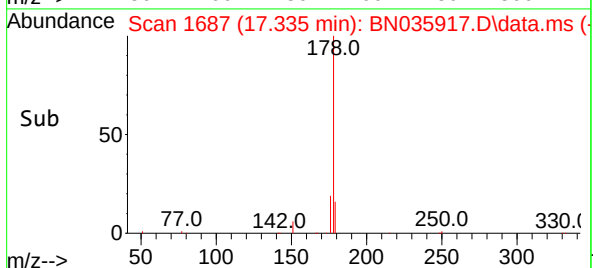
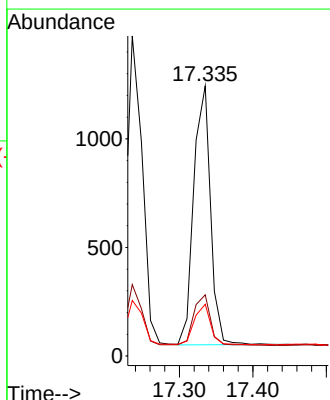
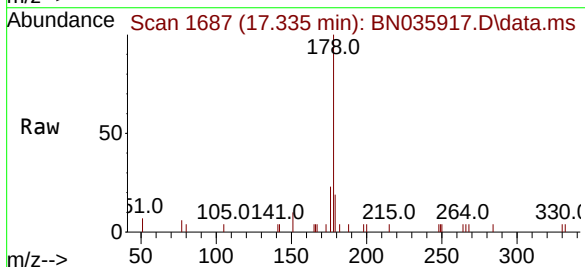
Instrument :
BNA_N
ClientSampleId :
PB166005BS

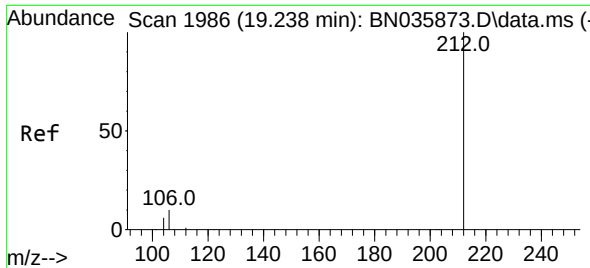
Tgt Ion:178 Resp: 2112
Ion Ratio Lower Upper
178 100
176 19.2 15.9 23.9
179 15.2 12.9 19.3



#26
Anthracene
Concen: 0.477 ng
RT: 17.335 min Scan# 1687
Delta R.T. 0.001 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

Tgt Ion:178 Resp: 1898
Ion Ratio Lower Upper
178 100
176 19.5 15.0 22.6
179 15.0 13.0 19.6

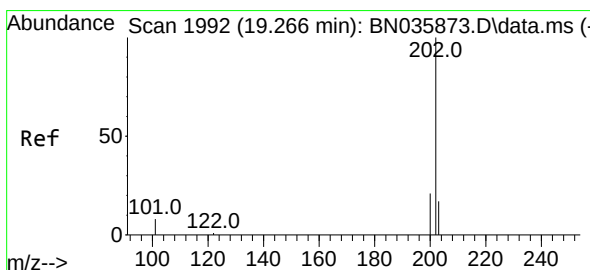
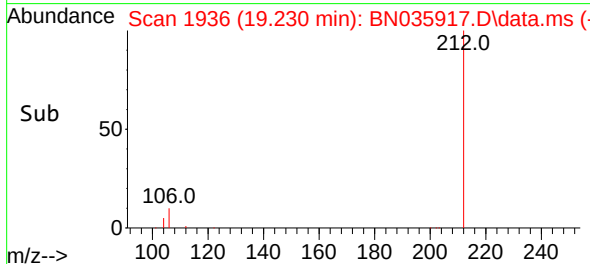
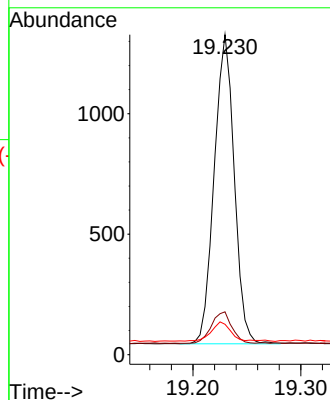
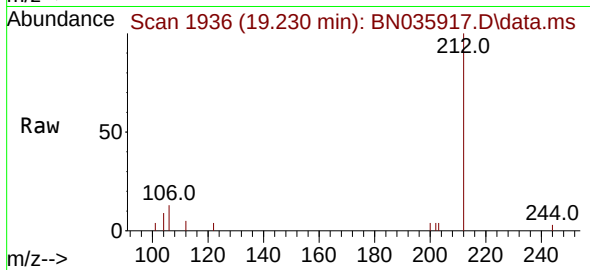




#27
Fluoranthene-d10
Concen: 0.445 ng
RT: 19.230 min Scan# 1942
Delta R.T. -0.008 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

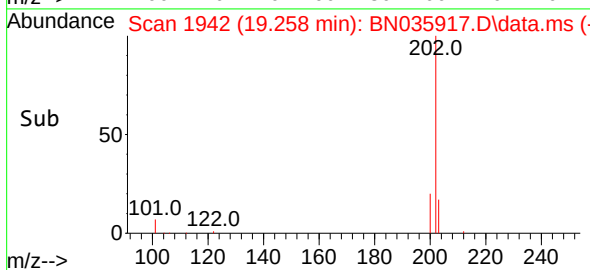
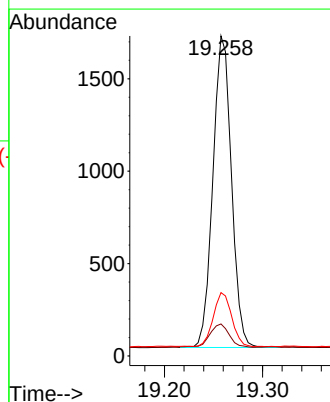
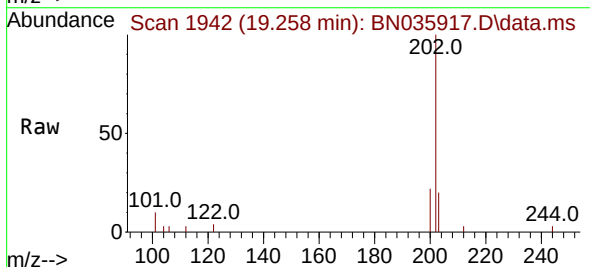
Instrument :
BNA_N
ClientSampleId :
PB166005BS

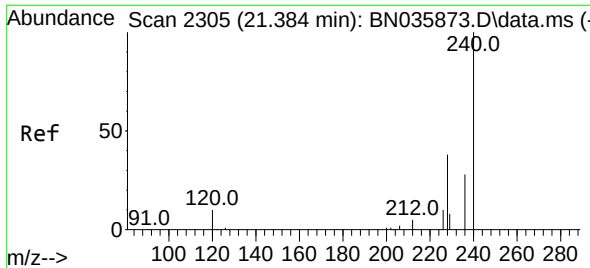
Tgt Ion	Ratio	Lower	Upper
212	100		
106	10.4	9.0	13.6
104	5.9	5.4	8.2



#28
Fluoranthene
Concen: 0.435 ng
RT: 19.258 min Scan# 1942
Delta R.T. -0.008 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

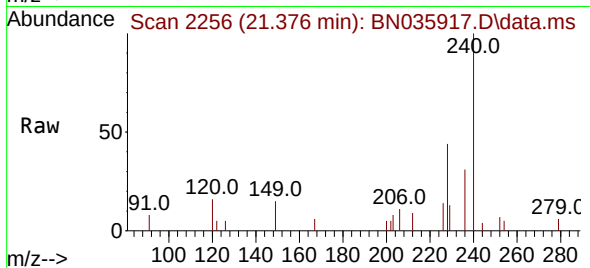
Tgt Ion	Ratio	Lower	Upper
202	100		
101	7.8	7.2	10.8
203	16.9	13.9	20.9



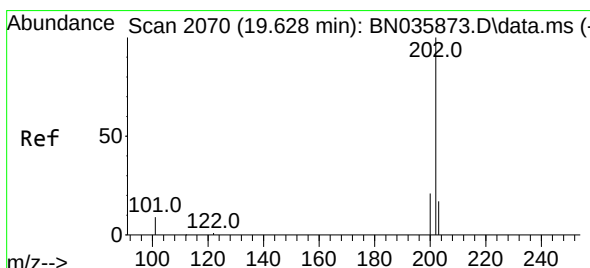
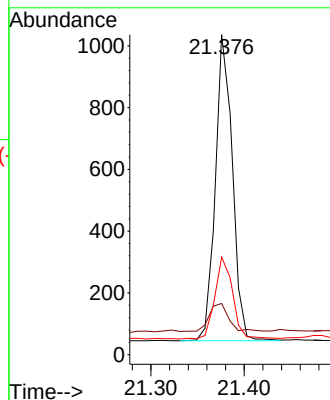
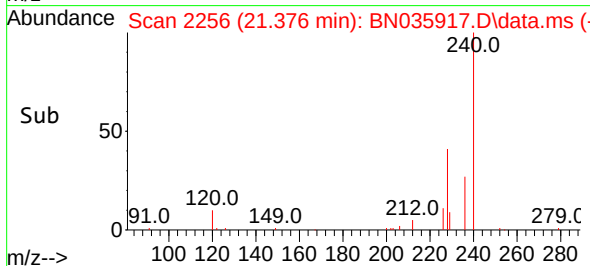


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.376 min Scan# 21
Delta R.T. -0.008 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

Instrument :
BNA_N
ClientSampleId :
PB166005BS

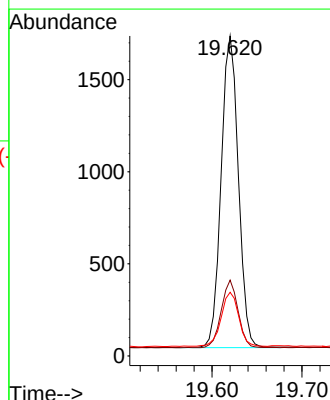
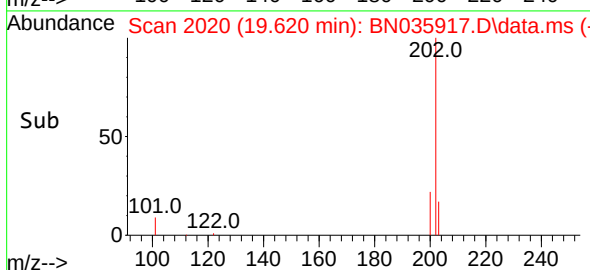
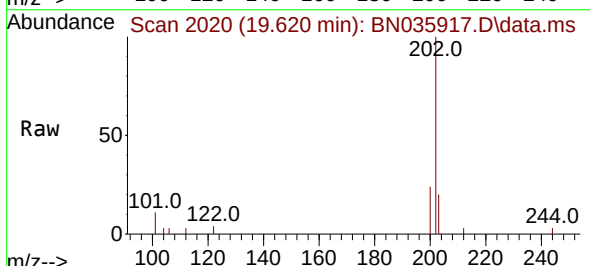


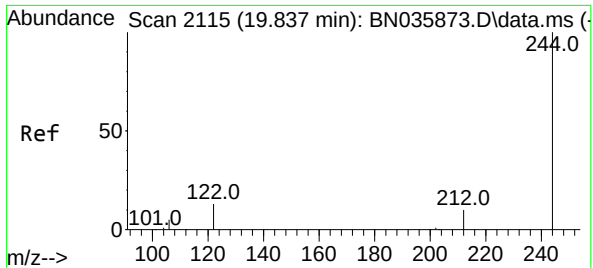
Tgt Ion:240 Resp: 1254
Ion Ratio Lower Upper
240 100
120 16.0 11.1 16.7
236 30.5 24.6 36.8



#30
Pyrene
Concen: 0.441 ng
RT: 19.620 min Scan# 2020
Delta R.T. -0.008 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

Tgt Ion:202 Resp: 2246
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.6
203 17.7 14.6 22.0

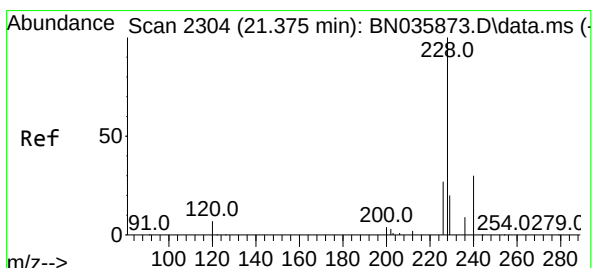
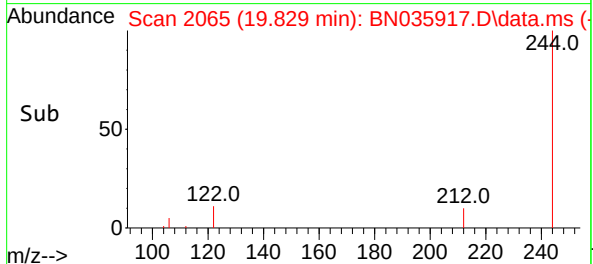
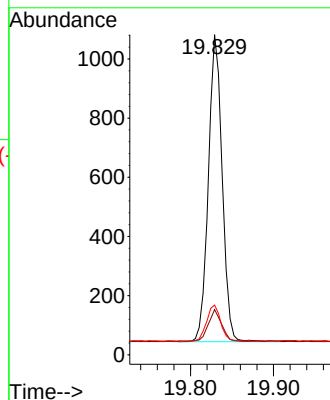
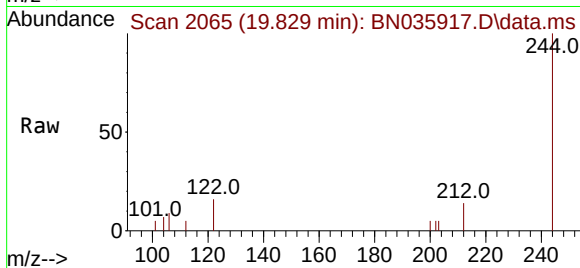




#31
Terphenyl-d14
Concen: 0.482 ng
RT: 19.829 min Scan# 2065
Delta R.T. -0.008 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

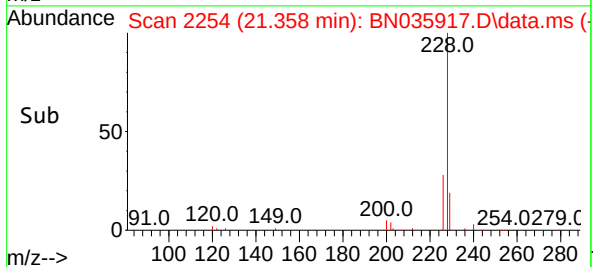
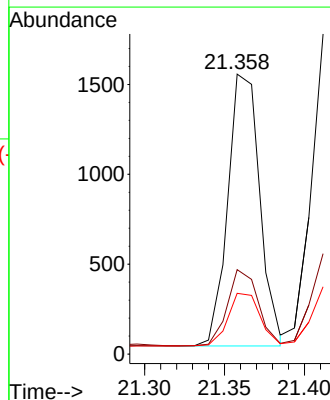
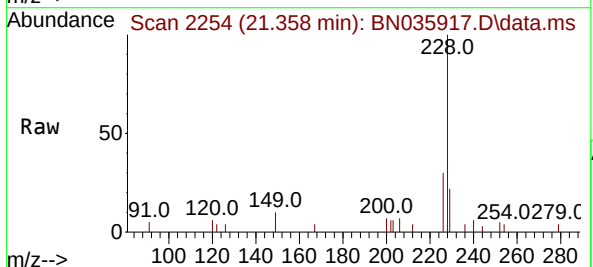
Instrument :
BNA_N
ClientSampleId :
PB166005BS

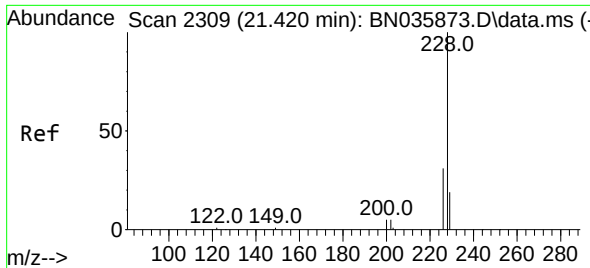
Tgt Ion	Ratio	Lower	Upper
244	100		
212	14.1	10.1	15.1
122	15.5	12.2	18.4



#32
Benzo(a)anthracene
Concen: 0.477 ng
RT: 21.358 min Scan# 2254
Delta R.T. -0.017 min
Lab File: BN035917.D
Acq: 13 Jan 2025 11:56

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	22.7	34.1
229	21.7	17.1	25.7





#33

Chrysene

Concen: 0.471 ng

RT: 21.412 min Scan# 21

Delta R.T. -0.008 min

Lab File: BN035917.D

Acq: 13 Jan 2025 11:56

Instrument :

BNA_N

ClientSampleId :

PB166005BS

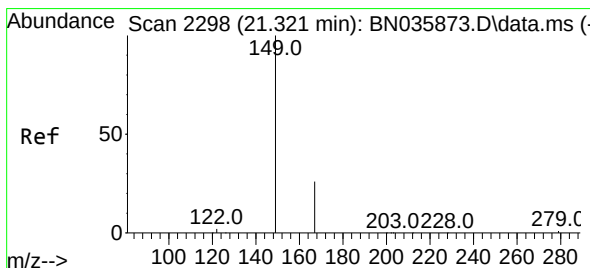
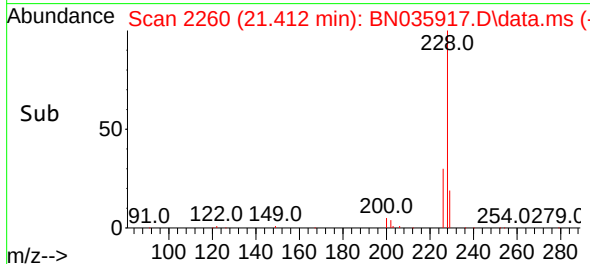
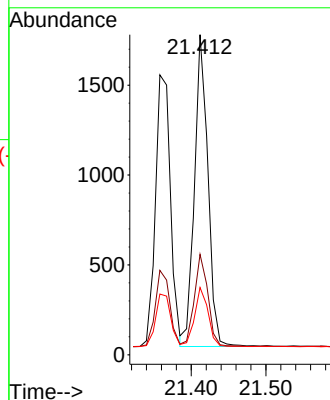
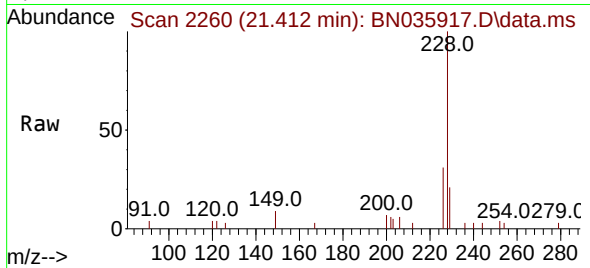
Tgt Ion:228 Resp: 2177

Ion Ratio Lower Upper

228 100

226 31.4 25.2 37.8

229 21.0 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.493 ng

RT: 21.313 min Scan# 2249

Delta R.T. -0.008 min

Lab File: BN035917.D

Acq: 13 Jan 2025 11:56

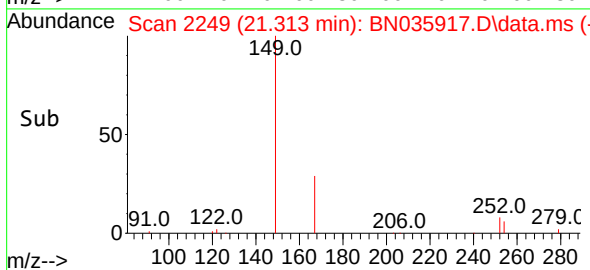
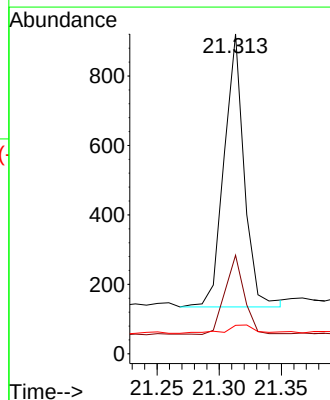
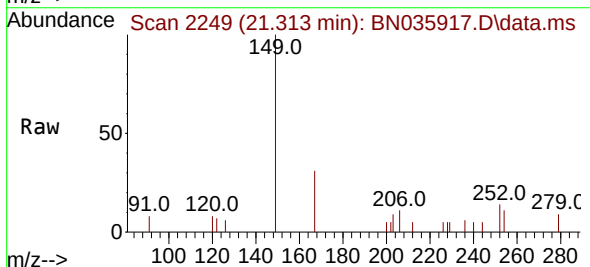
Tgt Ion:149 Resp: 886

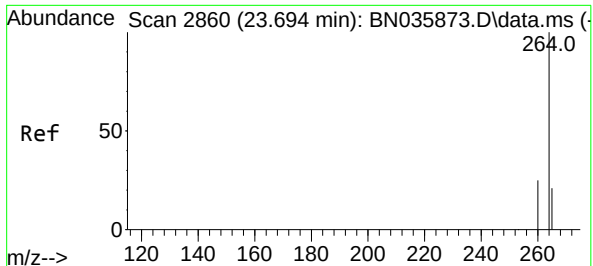
Ion Ratio Lower Upper

149 100

167 27.2 21.4 32.0

279 4.9 3.0 4.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.680 min Scan# 21

Delta R.T. -0.014 min

Lab File: BN035917.D

Acq: 13 Jan 2025 11:56

Instrument :

BNA_N

ClientSampleId :

PB166005BS

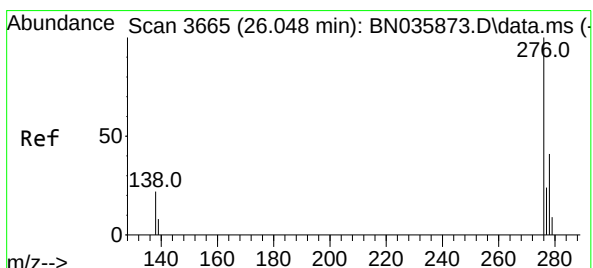
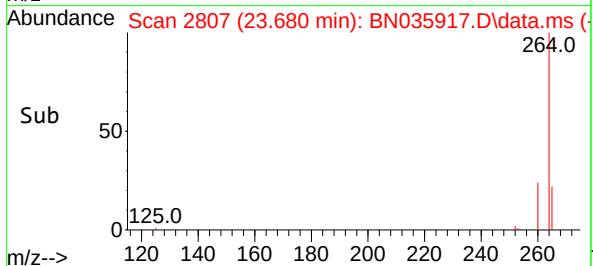
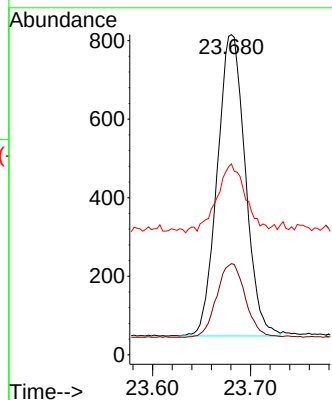
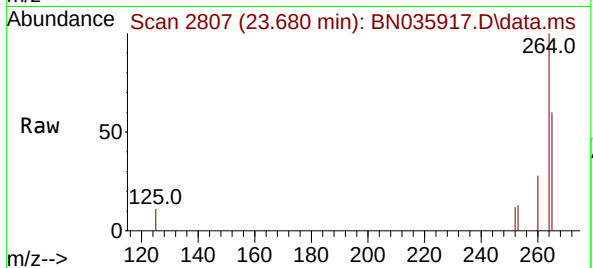
Tgt Ion:264 Resp: 1525

Ion Ratio Lower Upper

264 100

260 28.5 21.7 32.5

265 59.6 33.9 50.9#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.497 ng

RT: 26.031 min Scan# 3611

Delta R.T. -0.016 min

Lab File: BN035917.D

Acq: 13 Jan 2025 11:56

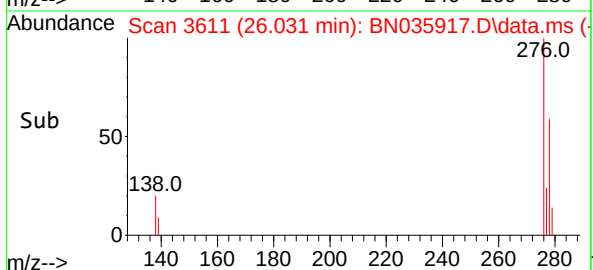
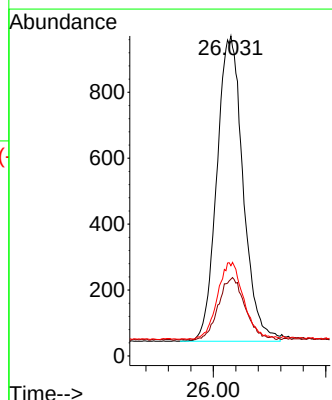
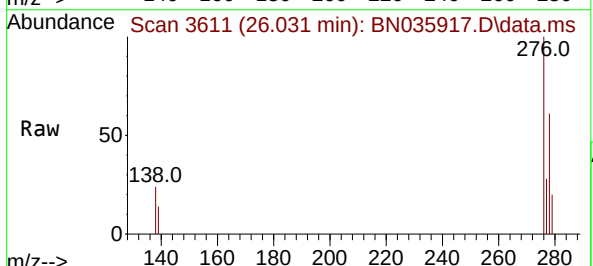
Tgt Ion:276 Resp: 2991

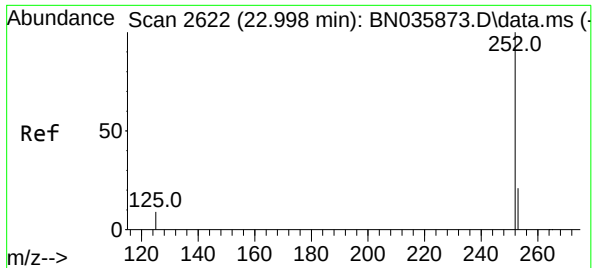
Ion Ratio Lower Upper

276 100

138 20.9 18.9 28.3

277 25.1 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.443 ng

RT: 22.988 min Scan# 21

Delta R.T. -0.011 min

Lab File: BN035917.D

Acq: 13 Jan 2025 11:56

Instrument :

BNA_N

ClientSampleId :

PB166005BS

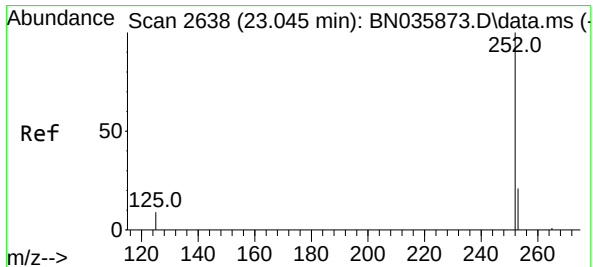
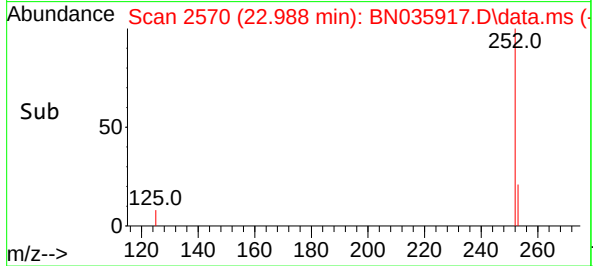
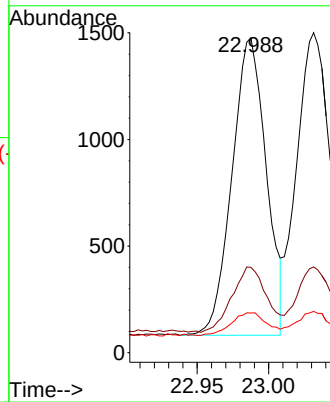
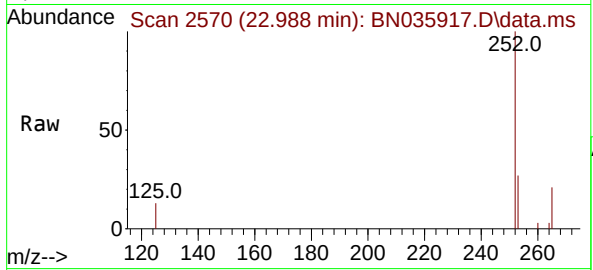
Tgt Ion:252 Resp: 2323

Ion Ratio Lower Upper

252 100

253 27.1 20.1 30.1

125 12.6 9.9 14.9



#38

Benzo(k)fluoranthene

Concen: 0.452 ng

RT: 23.031 min Scan# 2585

Delta R.T. -0.014 min

Lab File: BN035917.D

Acq: 13 Jan 2025 11:56

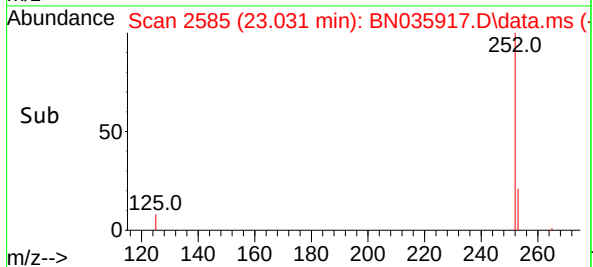
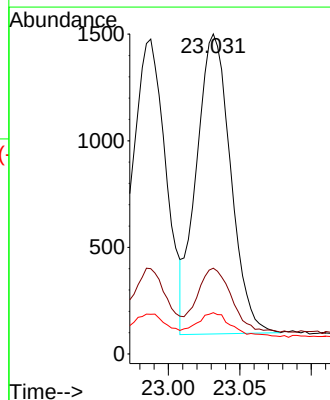
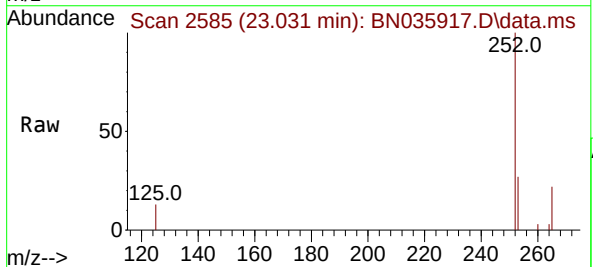
Tgt Ion:252 Resp: 2343

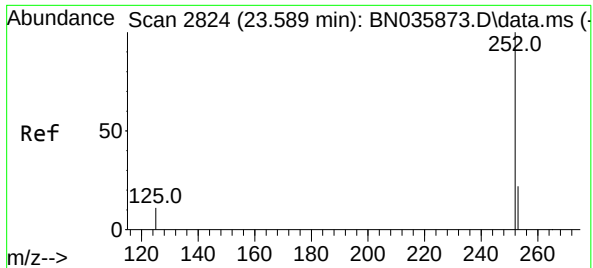
Ion Ratio Lower Upper

252 100

253 26.8 20.5 30.7

125 12.9 10.6 16.0





#39

Benzo(a)pyrene

Concen: 0.485 ng

RT: 23.581 min Scan# 21

Delta R.T. -0.008 min

Lab File: BN035917.D

Acq: 13 Jan 2025 11:56

Instrument :

BNA_N

ClientSampleId :

PB166005BS

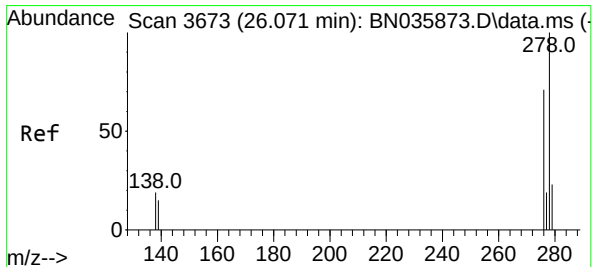
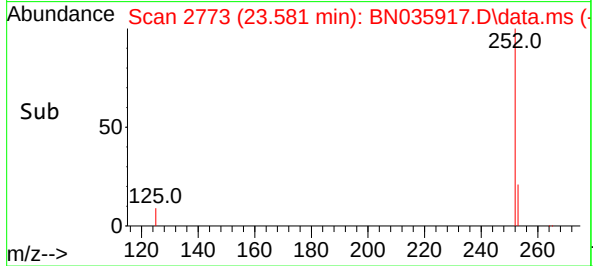
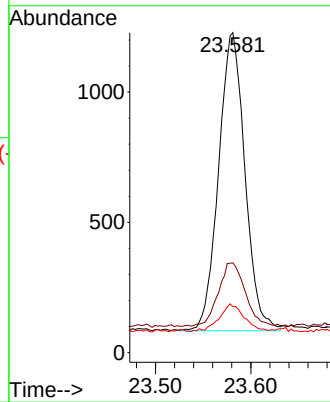
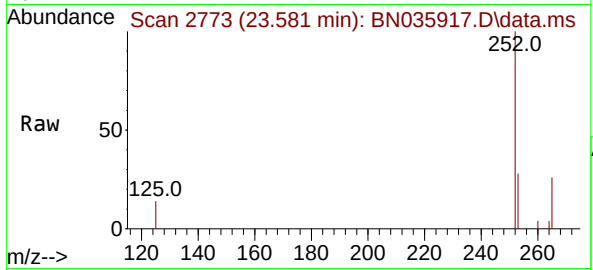
Tgt Ion:252 Resp: 2198

Ion Ratio Lower Upper

252 100

253 28.1 21.5 32.3

125 14.4 12.6 19.0



#40

Dibenzo(a,h)anthracene

Concen: 0.498 ng

RT: 26.049 min Scan# 3617

Delta R.T. -0.022 min

Lab File: BN035917.D

Acq: 13 Jan 2025 11:56

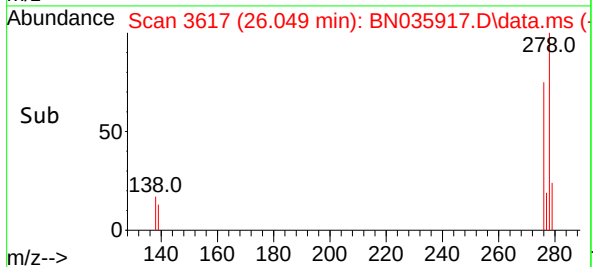
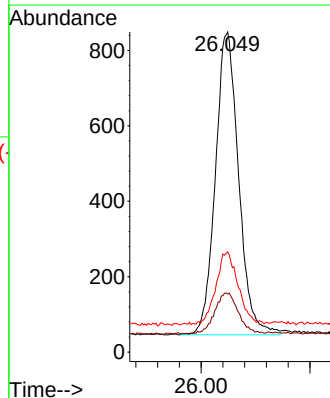
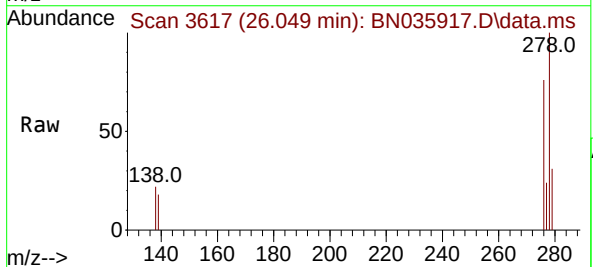
Tgt Ion:278 Resp: 2383

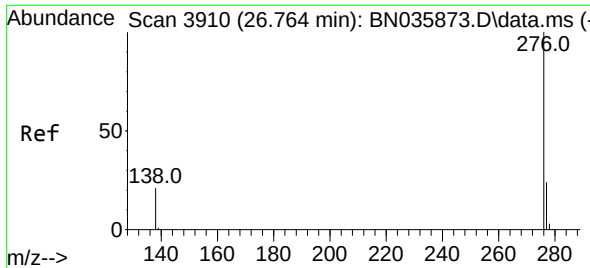
Ion Ratio Lower Upper

278 100

139 18.1 15.9 23.9

279 31.3 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 0.447 ng

RT: 26.744 min Scan# 3855

Delta R.T. -0.019 min

Lab File: BN035917.D

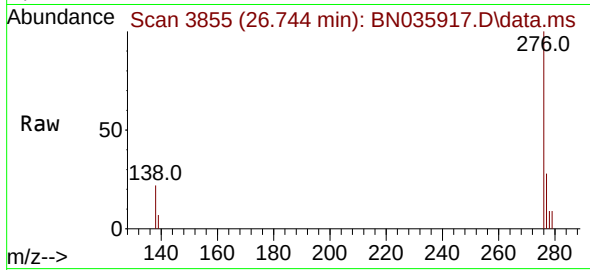
Acq: 13 Jan 2025 11:56

Instrument :

BNA_N

ClientSampleId :

PB166005BS



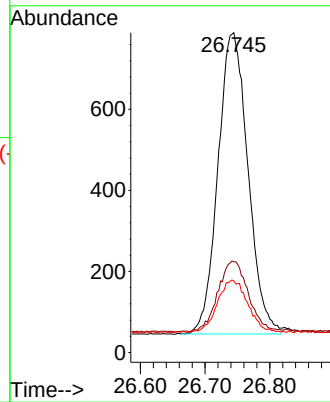
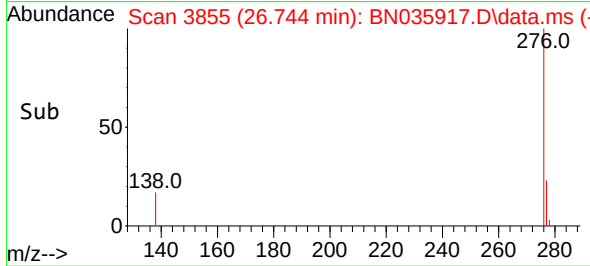
Tgt Ion:276 Resp: 2393

Ion Ratio Lower Upper

276 100

277 28.4 22.8 34.2

138 22.4 20.1 30.1



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	RW5B FT WC - # 112G08005-WE13	Date Received:	
Client Sample ID:	PB166005BSD	SDG No.:	Q1040
Lab Sample ID:	PB166005BSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035911.D	1	01/10/25 08:10	01/10/25 20:44	PB166005

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.40		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.48		30 - 150		119%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		113%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.50	*	55 - 111		124%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.47	*	53 - 106		118%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		119%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	848		7.832			
1146-65-2	Naphthalene-d8	1570		10.622			
15067-26-2	Acenaphthene-d10	773		14.463			
1517-22-2	Phenanthrene-d10	1390		17.199			
1719-03-5	Chrysene-d12	1180		21.385			
1520-96-3	Perylene-d12	1390		23.686			

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\BN011025\
 Data File : BN035911.D
 Acq On : 10 Jan 2025 20:44
 Operator : RC/JU
 Sample : PB166005BSD
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB166005BSD

Quant Time: Jan 10 21:48:11 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

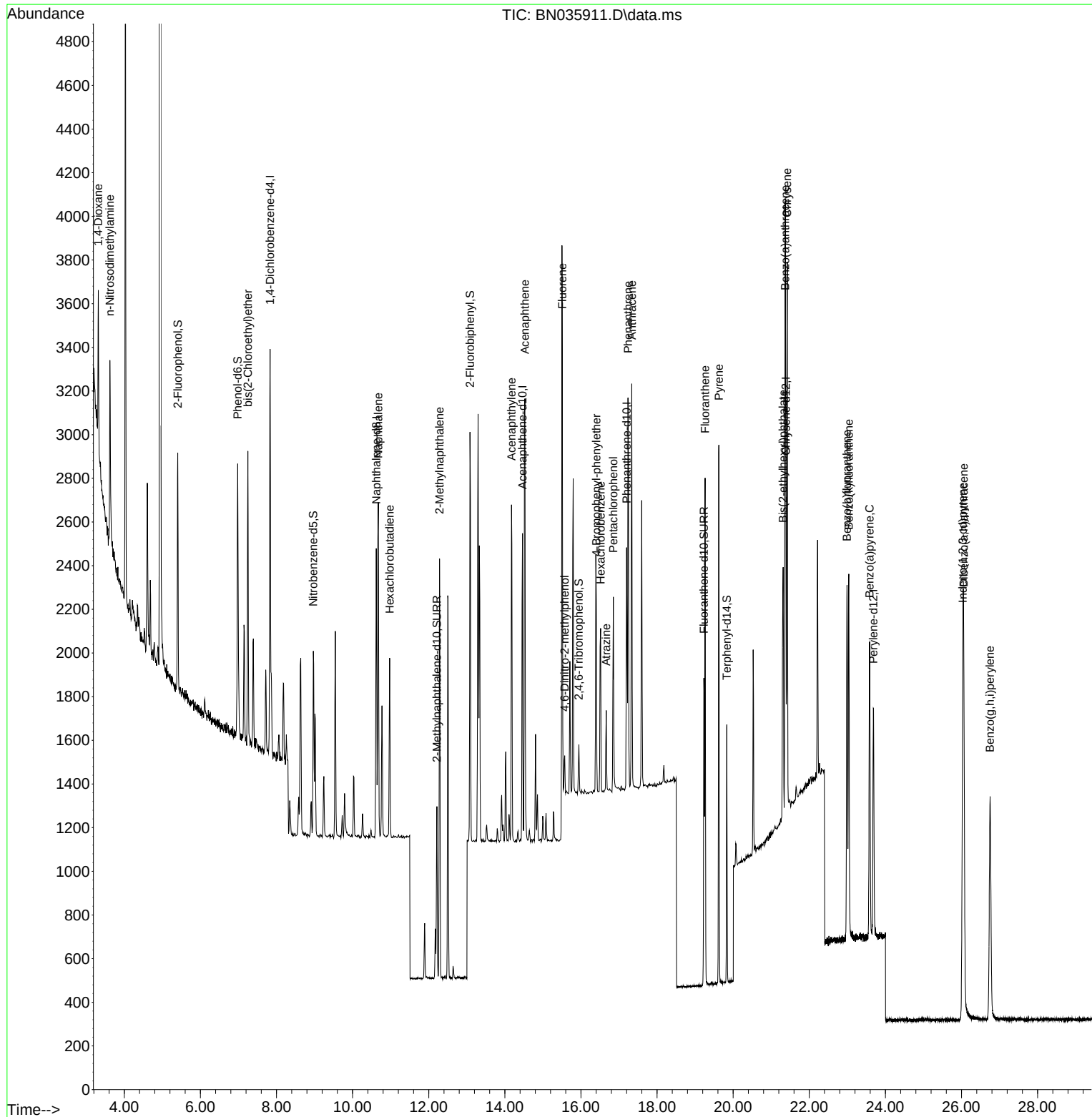
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.832	152	848	0.400	ng	0.00
7) Naphthalene-d8	10.622	136	1569	0.400	ng	0.00
13) Acenaphthene-d10	14.463	164	773	0.400	ng	0.00
19) Phenanthrene-d10	17.199	188	1389	0.400	ng	#-0.01
29) Chrysene-d12	21.385	240	1178	0.400	ng	0.00
35) Perylene-d12	23.686	264	1390	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.405	112	762	0.366	ng	0.00
5) Phenol-d6	6.979	99	917	0.355	ng	0.00
8) Nitrobenzene-d5	8.967	82	617	0.497	ng	-0.01
11) 2-Methylnaphthalene-d10	12.213	152	1000	0.476	ng	0.00
14) 2,4,6-Tribromophenol	15.945	330	118	0.318	ng	-0.01
15) 2-Fluorobiphenyl	13.084	172	1599	0.471	ng	0.00
27) Fluoranthene-d10	19.230	212	1562	0.453	ng	0.00
31) Terphenyl-d14	19.834	244	1118	0.476	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.318	88	334	0.397	ng	# 71
3) n-Nitrosodimethylamine	3.621	42	722	0.491	ng	# 87
6) bis(2-Chloroethyl)ether	7.247	93	842	0.428	ng	95
9) Naphthalene	10.675	128	1981	0.450	ng	99
10) Hexachlorobutadiene	10.974	225	641	0.448	ng	# 98
12) 2-Methylnaphthalene	12.284	142	1234	0.453	ng	97
16) Acenaphthylene	14.174	152	1702	0.468	ng	99
17) Acenaphthene	14.527	154	1128	0.473	ng	95
18) Fluorene	15.511	166	1121	0.427	ng	98
20) 4,6-Dinitro-2-methylph...	15.573	198	160	0.663	ng	# 81
21) 4-Bromophenyl-phenylether	16.404	248	454	0.477	ng	# 80
22) Hexachlorobenzene	16.516	284	608	0.468	ng	96
23) Atrazine	16.665	200	287	0.449	ng	92
24) Pentachlorophenol	16.851	266	437	0.951	ng	98
25) Phenanthrene	17.236	178	1934	0.477	ng	100
26) Anthracene	17.335	178	1834	0.497	ng	98
28) Fluoranthene	19.262	202	2073	0.439	ng	99
30) Pyrene	19.625	202	2153	0.450	ng	99
32) Benzo(a)anthracene	21.367	228	2012	0.485	ng	100
33) Chrysene	21.421	228	2084	0.480	ng	98
34) Bis(2-ethylhexyl)phtha...	21.313	149	843	0.499	ng	# 99
36) Indeno(1,2,3-cd)pyrene	26.034	276	2725	0.497	ng	97
37) Benzo(b)fluoranthene	22.991	252	2162	0.453	ng	95
38) Benzo(k)fluoranthene	23.037	252	2157	0.456	ng	96
39) Benzo(a)pyrene	23.584	252	2039	0.493	ng	97
40) Dibenzo(a,h)anthracene	26.057	278	2157	0.495	ng	95
41) Benzo(g,h,i)perylene	26.750	276	2197	0.451	ng	97

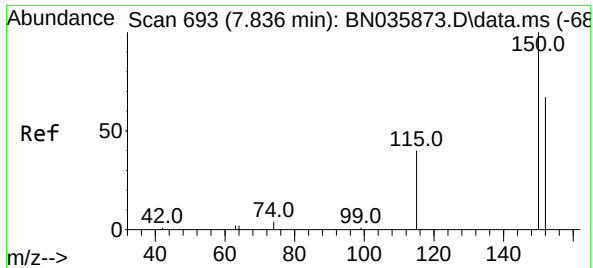
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011025\
Data File : BN035911.D
Acq On : 10 Jan 2025 20:44
Operator : RC/JU
Sample : PB166005BSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB166005BSD

Quant Time: Jan 10 21:48:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

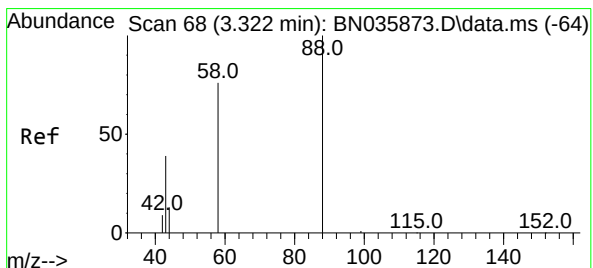
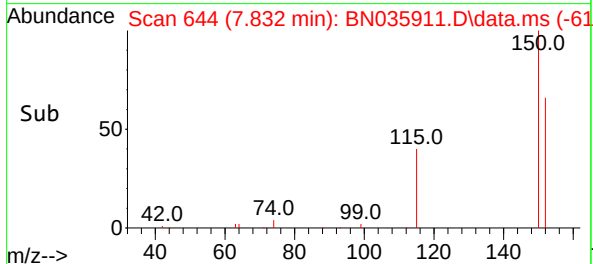
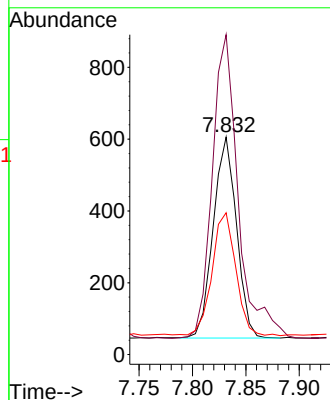
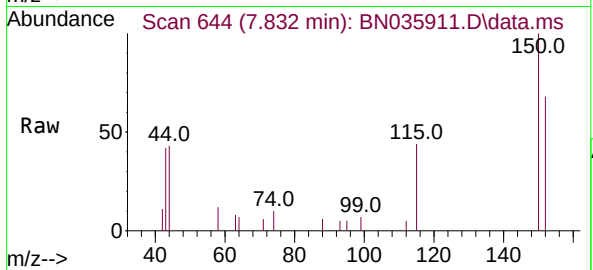




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.832 min Scan# 64
Delta R.T. -0.004 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

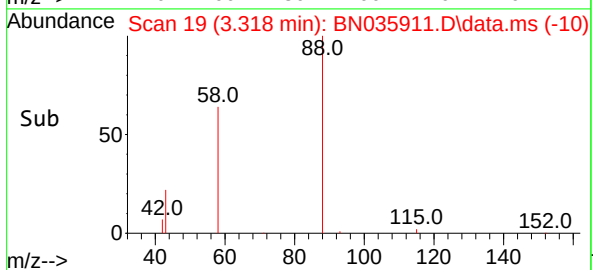
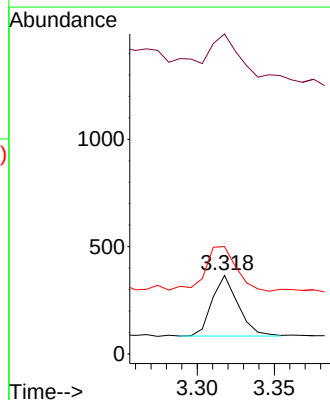
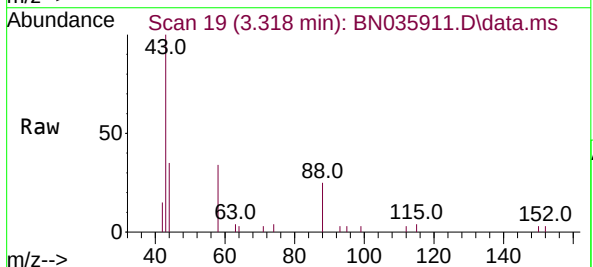
Instrument :
BNA_N
ClientSampleId :
PB166005BSD

Tgt Ion:152 Resp: 848
Ion Ratio Lower Upper
152 100
150 147.0 117.8 176.6
115 65.2 51.0 76.4

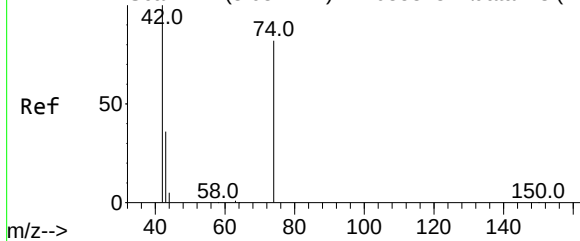


#2
1,4-Dioxane
Concen: 0.397 ng
RT: 3.318 min Scan# 19
Delta R.T. -0.004 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

Tgt Ion: 88 Resp: 334
Ion Ratio Lower Upper
88 100
43 81.7 32.7 49.1#
58 87.7 63.0 94.4



Abundance Scan 111 (3.632 min): BN035873.D\data.ms (-10



#3

n-Nitrosodimethylamine

Concen: 0.491 ng

RT: 3.621 min Scan# 61

Delta R.T. -0.011 min

Lab File: BN035911.D

Acq: 10 Jan 2025 20:44

Instrument :

BNA_N

ClientSampleId :

PB166005BSD

Tgt Ion: 42 Resp: 722

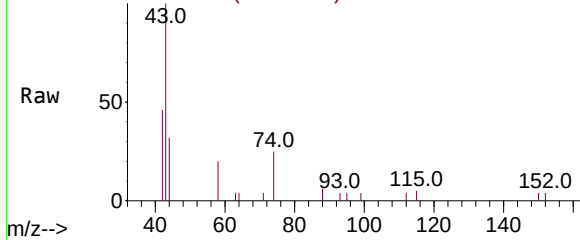
Ion Ratio Lower Upper

42 100

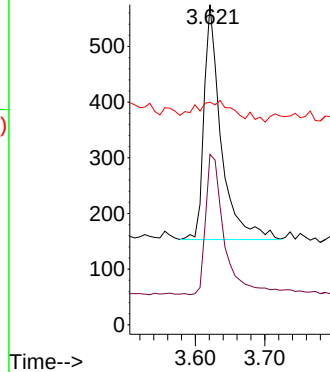
74 66.9 62.2 93.2

44 14.4 7.1 10.7#

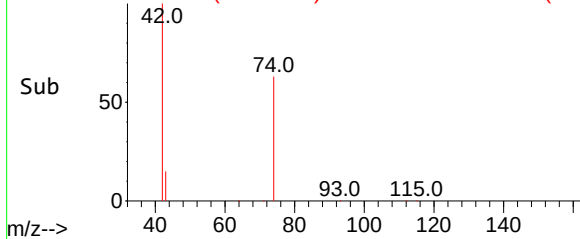
Abundance Scan 61 (3.621 min): BN035911.D\data.ms



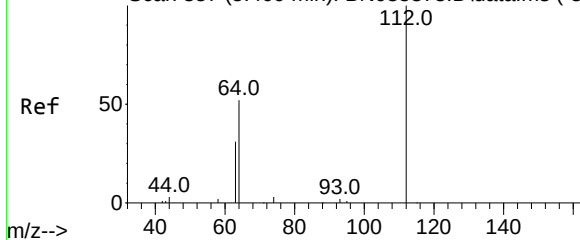
Abundance



Abundance Scan 61 (3.621 min): BN035911.D\data.ms (-42)



Abundance Scan 357 (5.409 min): BN035873.D\data.ms (-34



#4

2-Fluorophenol

Concen: 0.366 ng

RT: 5.405 min Scan# 308

Delta R.T. -0.004 min

Lab File: BN035911.D

Acq: 10 Jan 2025 20:44

Tgt Ion: 112 Resp: 762

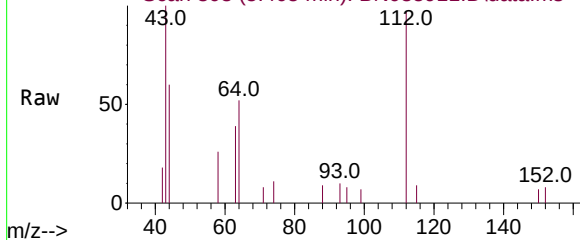
Ion Ratio Lower Upper

112 100

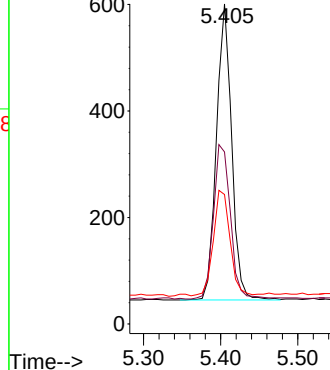
64 58.8 48.2 72.2

63 38.8 30.0 45.0

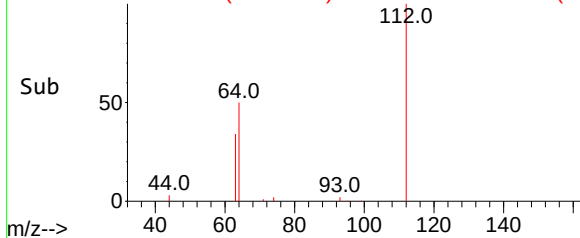
Abundance Scan 308 (5.405 min): BN035911.D\data.ms

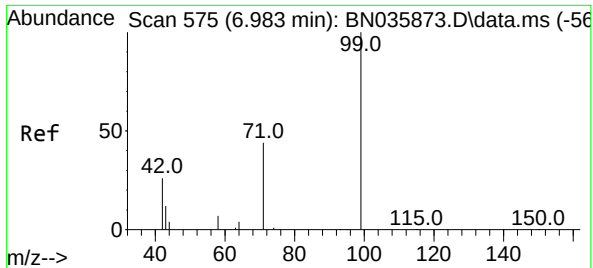


Abundance



Abundance Scan 308 (5.405 min): BN035911.D\data.ms (-28

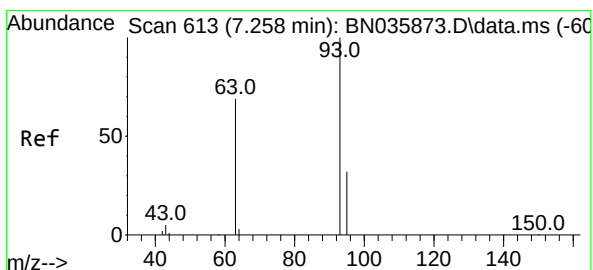
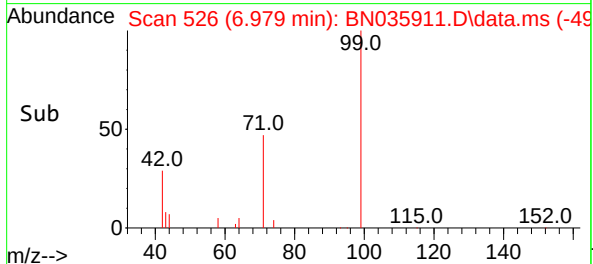
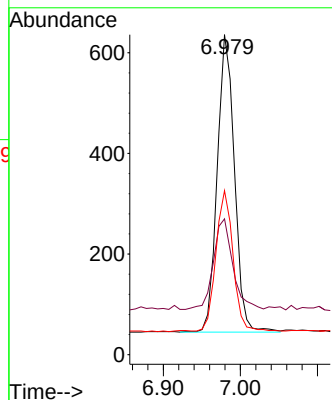
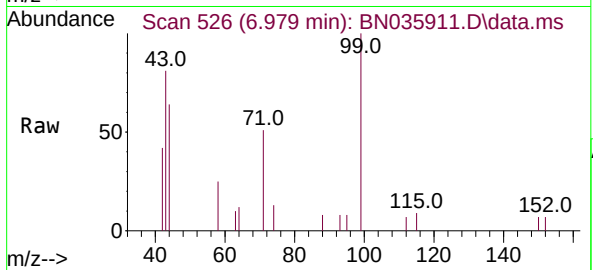




#5
Phenol-d6
Concen: 0.355 ng
RT: 6.979 min Scan# 51
Delta R.T. -0.004 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

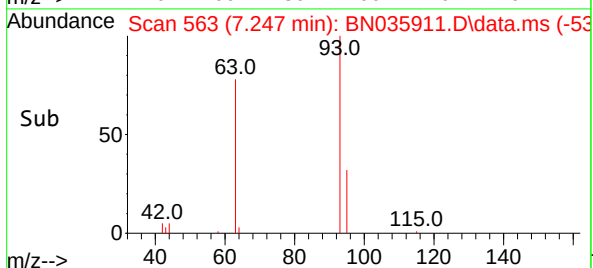
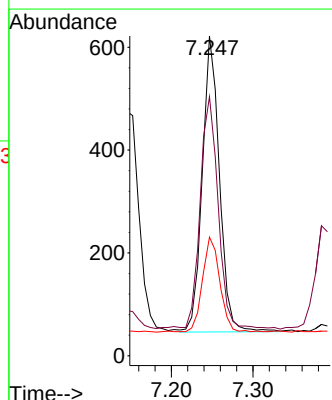
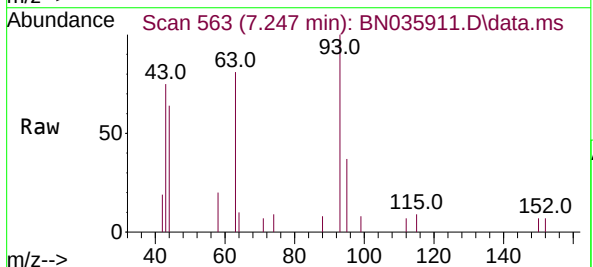
Instrument :
BNA_N
ClientSampleId :
PB166005BSD

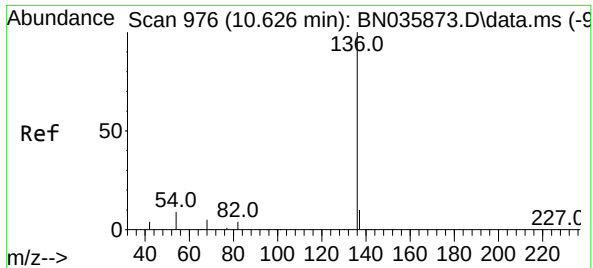
Tgt Ion: 99 Resp: 917
Ion Ratio Lower Upper
99 100
42 34.1 23.5 35.3
71 46.8 35.5 53.3



#6
bis(2-Chloroethyl)ether
Concen: 0.428 ng
RT: 7.247 min Scan# 563
Delta R.T. -0.011 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

Tgt Ion: 93 Resp: 842
Ion Ratio Lower Upper
93 100
63 83.0 62.0 93.0
95 31.8 25.5 38.3

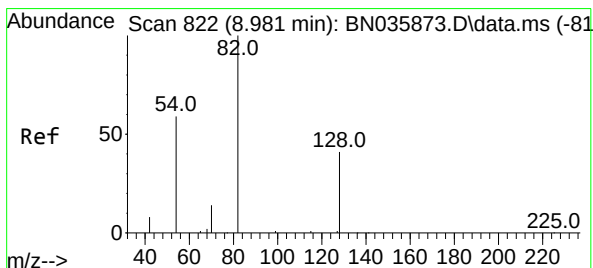
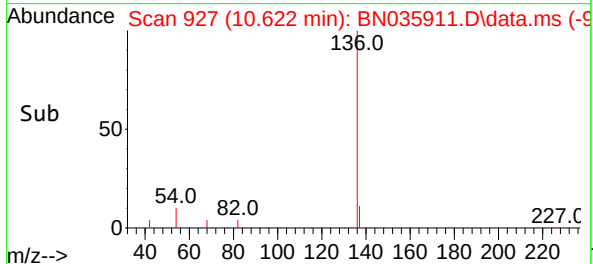
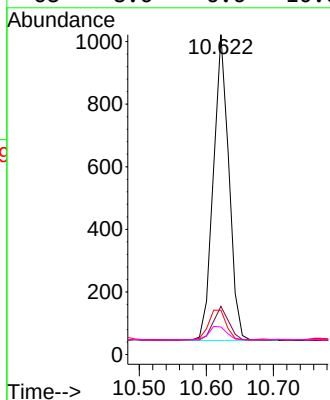
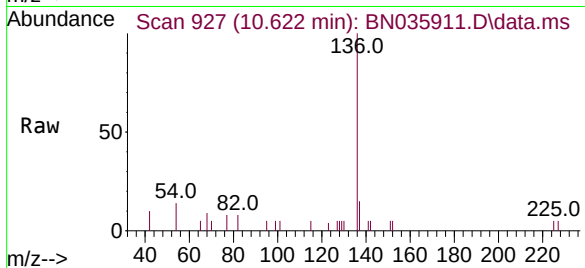




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.622 min Scan# 91
Delta R.T. -0.004 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

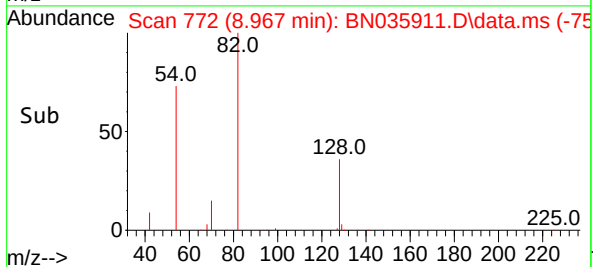
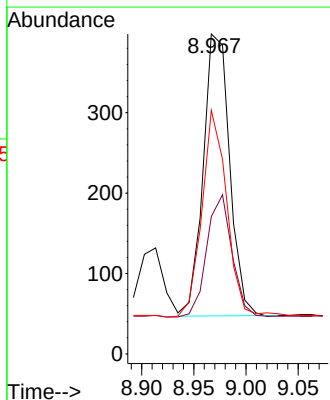
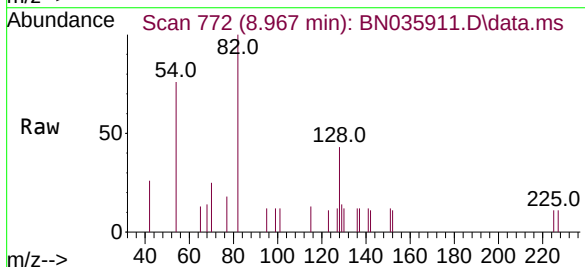
Instrument :
BNA_N
ClientSampleId :
PB166005BSD

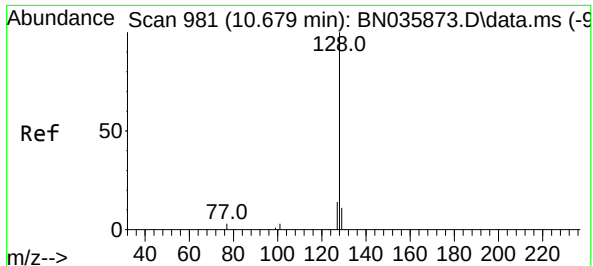
Tgt Ion:	136	Resp:	1569
Ion	Ratio	Lower	Upper
136	100		
137	15.1	10.6	15.8
54	13.9	9.8	14.6
68	8.6	6.6	10.0



#8
Nitrobenzene-d5
Concen: 0.497 ng
RT: 8.967 min Scan# 772
Delta R.T. -0.015 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

Tgt Ion:	82	Resp:	617
Ion	Ratio	Lower	Upper
82	100		
128	43.0	36.9	55.3
54	76.1	50.4	75.6

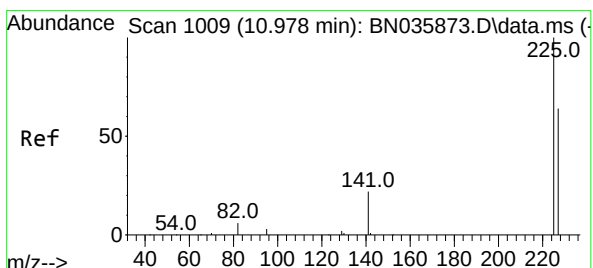
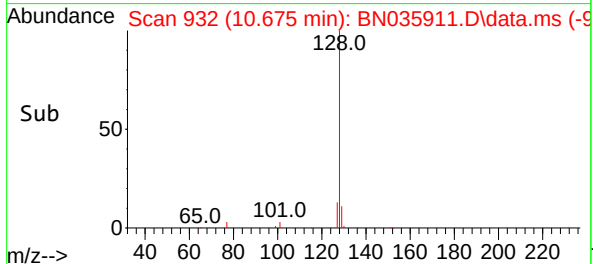
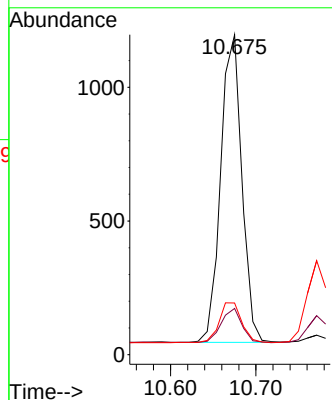
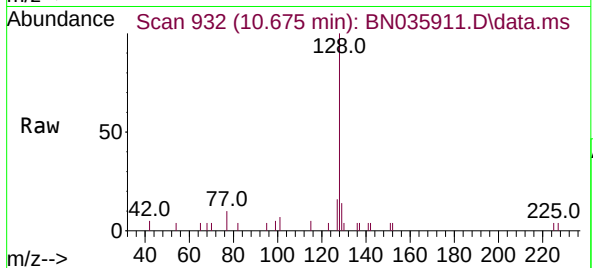




#9
Naphthalene
Concen: 0.450 ng
RT: 10.675 min Scan# 91
Delta R.T. -0.004 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

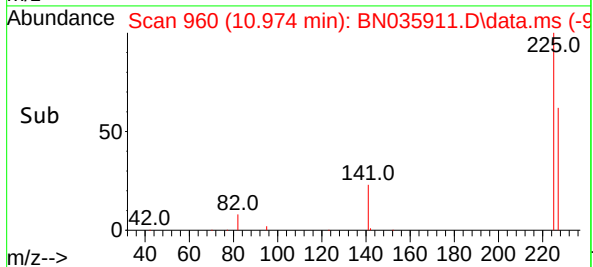
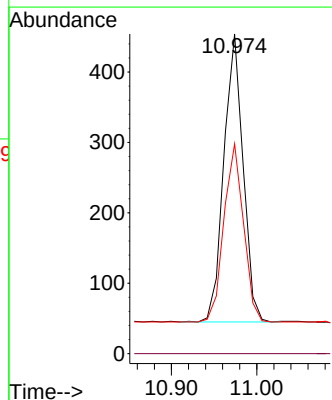
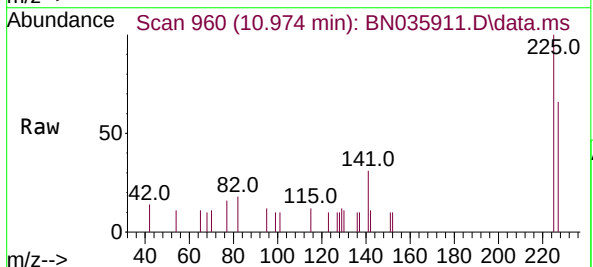
Instrument :
BNA_N
ClientSampleId :
PB166005BSD

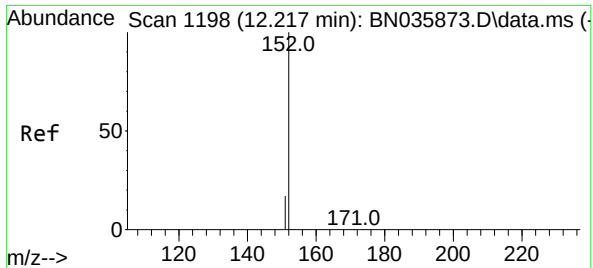
Tgt Ion	Ratio	Lower	Upper
128	100		
129	14.5	10.6	16.0
127	16.1	12.8	19.2



#10
Hexachlorobutadiene
Concen: 0.448 ng
RT: 10.974 min Scan# 960
Delta R.T. -0.004 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.0	51.5	77.3

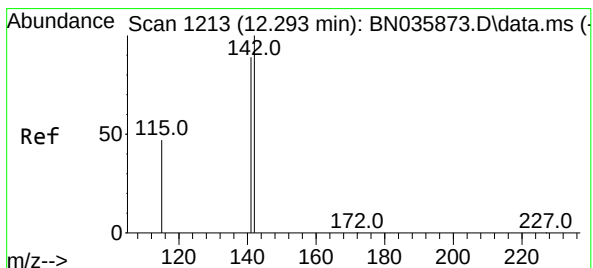
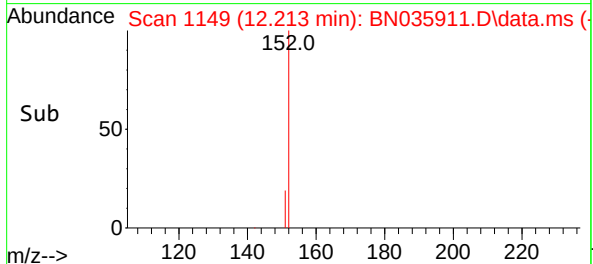
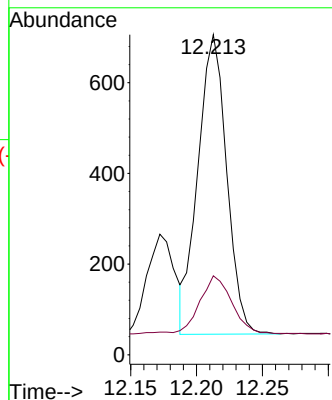
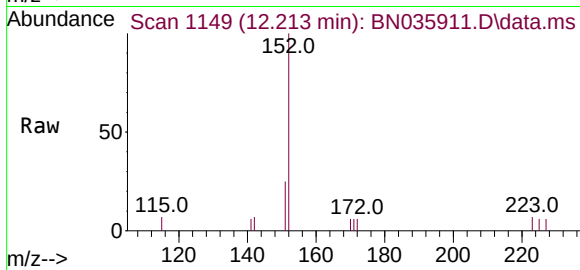




#11
2-Methylnaphthalene-d10
Concen: 0.476 ng
RT: 12.213 min Scan# 1163
Delta R.T. -0.004 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

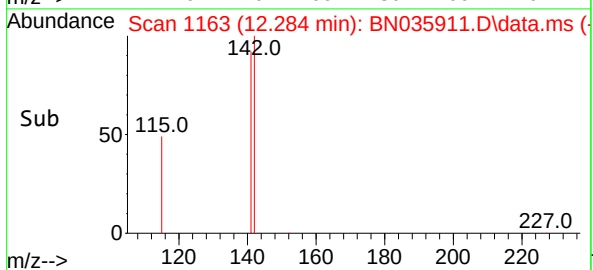
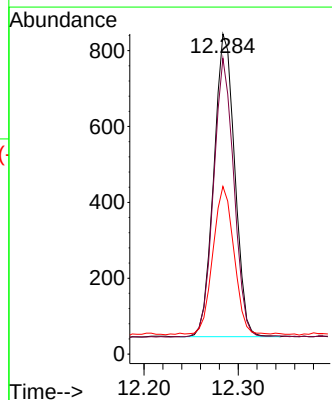
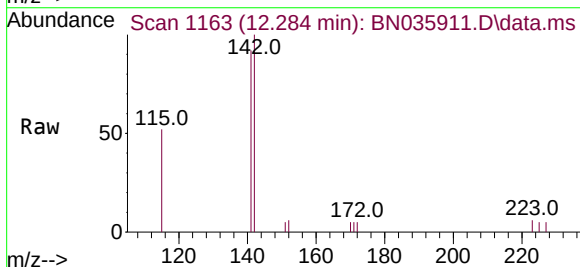
Instrument :
BNA_N
ClientSampleId :
PB166005BSD

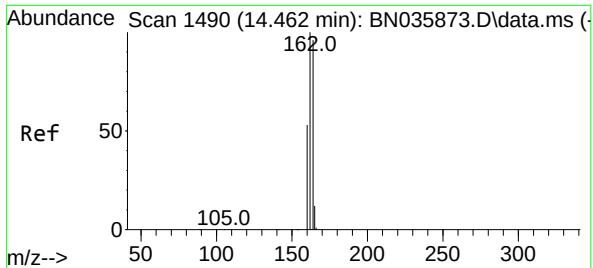
Tgt Ion:152 Resp: 1000
Ion Ratio Lower Upper
152 100
151 22.0 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.453 ng
RT: 12.284 min Scan# 1163
Delta R.T. -0.009 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

Tgt Ion:142 Resp: 1234
Ion Ratio Lower Upper
142 100
141 92.4 71.9 107.9
115 52.4 39.6 59.4

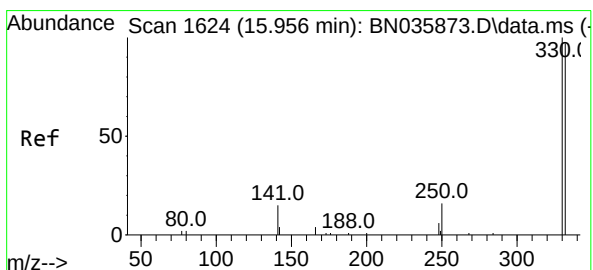
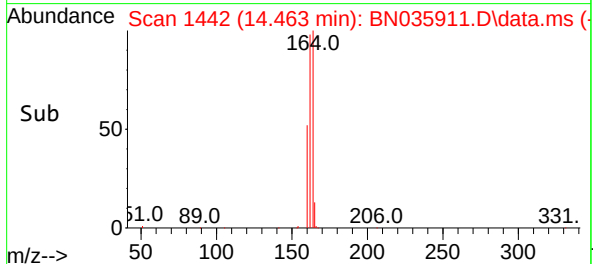
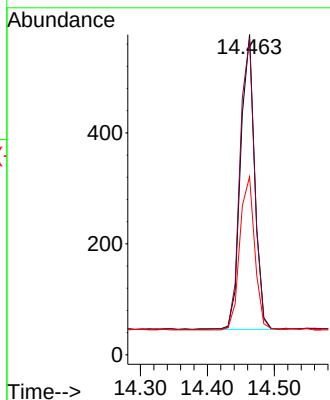
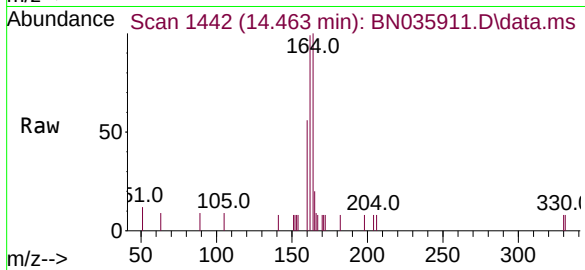




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.463 min Scan# 14
Delta R.T. 0.001 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

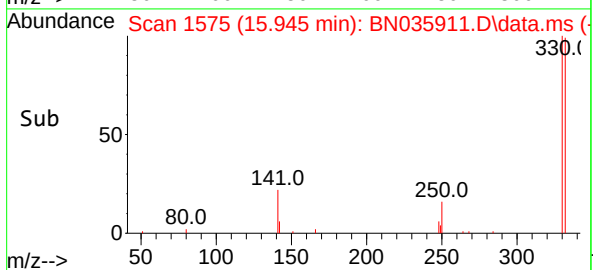
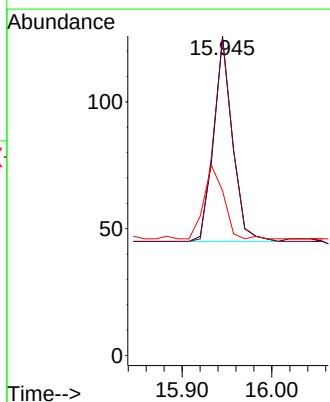
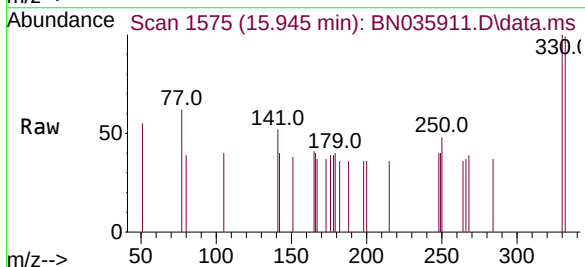
Instrument :
BNA_N
ClientSampleId :
PB166005BSD

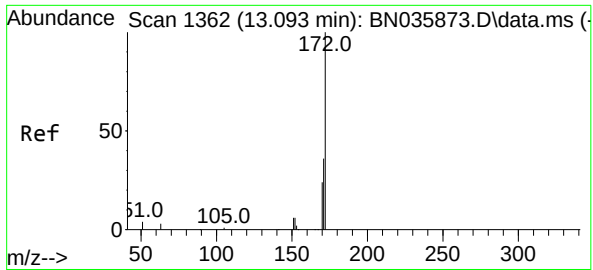
Tgt Ion:164 Resp: 773
Ion Ratio Lower Upper
164 100
162 98.8 83.1 124.7
160 55.6 46.0 69.0



#14
2,4,6-Tribromophenol
Concen: 0.318 ng
RT: 15.945 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

Tgt Ion:330 Resp: 118
Ion Ratio Lower Upper
330 100
332 100.0 77.2 115.8
141 38.1 31.6 47.4

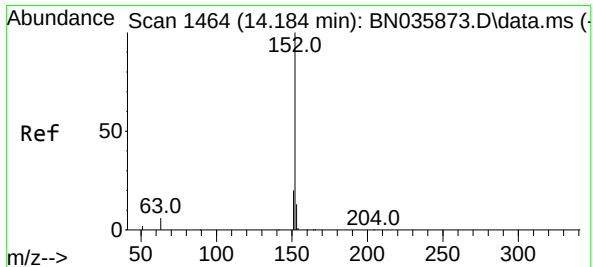
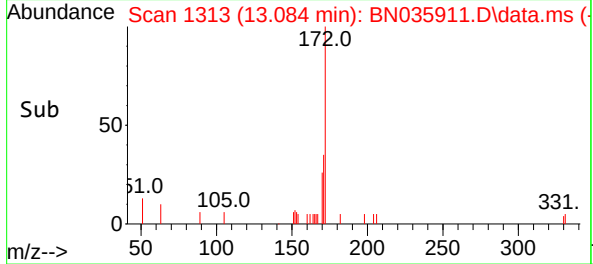
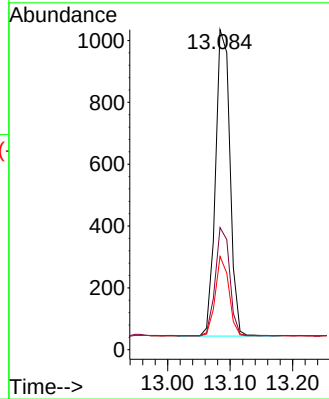
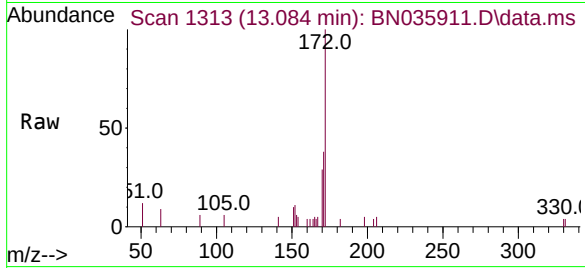




#15
2-Fluorobiphenyl
Concen: 0.471 ng
RT: 13.084 min Scan# 1415
Delta R.T. -0.010 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

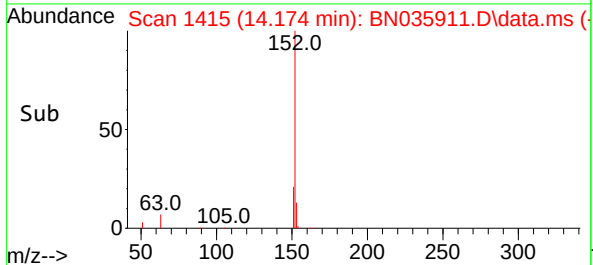
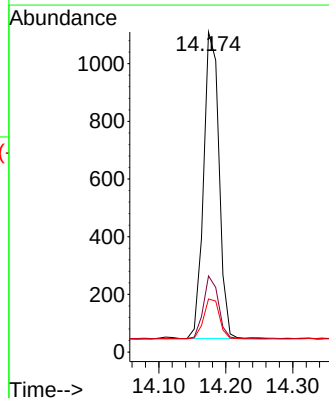
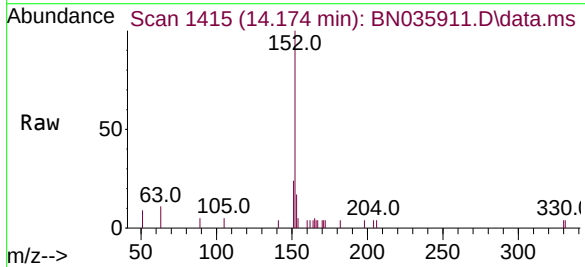
Instrument :
BNA_N
ClientSampleId :
PB166005BSD

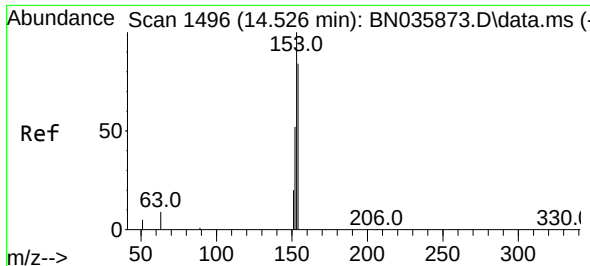
Tgt Ion:	172	Resp:	1599
Ion	Ratio	Lower	Upper
172	100		
171	38.2	30.5	45.7
170	29.2	20.8	31.2



#16
Acenaphthylene
Concen: 0.468 ng
RT: 14.174 min Scan# 1415
Delta R.T. -0.010 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

Tgt Ion:	152	Resp:	1702
Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.3	24.5
153	13.6	10.6	15.8

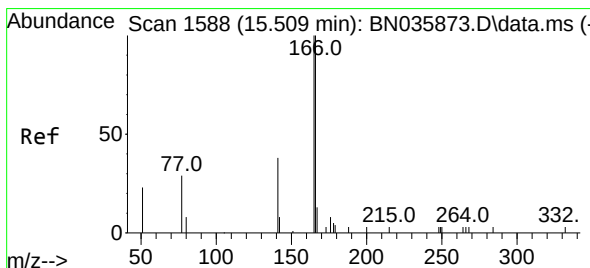
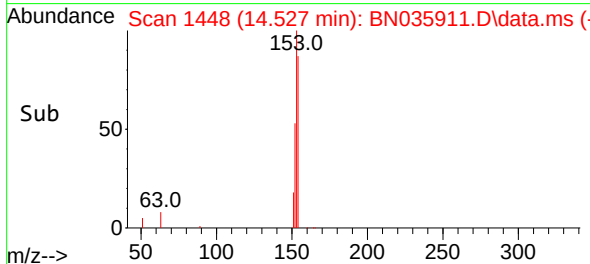
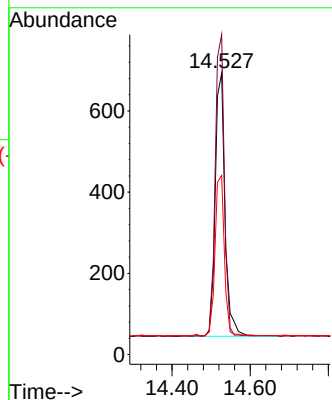
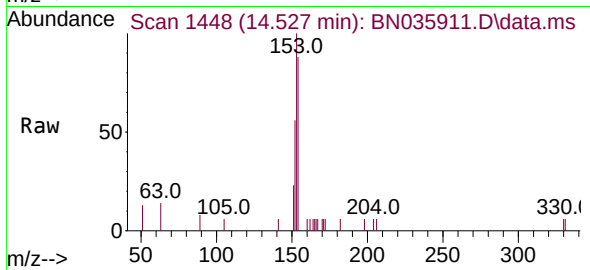




#17
Acenaphthene
Concen: 0.473 ng
RT: 14.527 min Scan# 1496
Delta R.T. 0.001 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

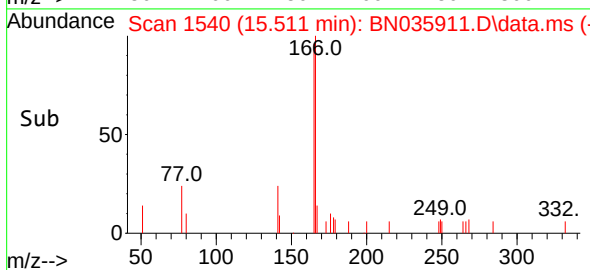
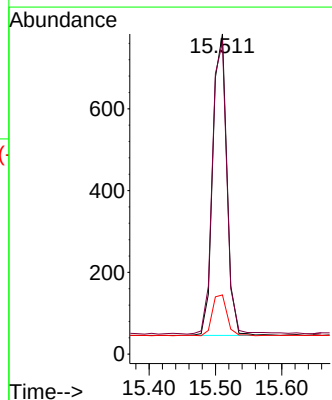
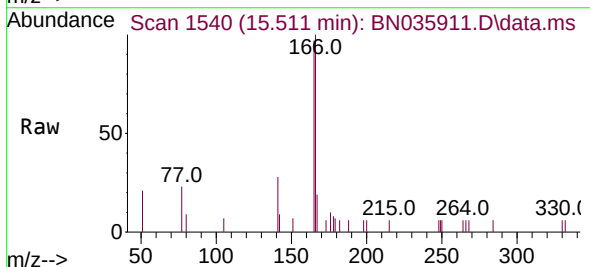
Instrument :
BNA_N
ClientSampleId :
PB166005BSD

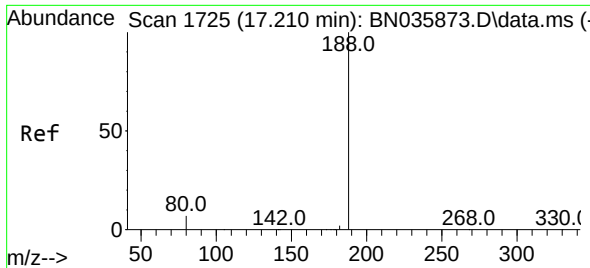
Tgt Ion	Ratio	Lower	Upper
154	100		
153	106.9	90.5	135.7
152	58.0	48.6	73.0



#18
Fluorene
Concen: 0.427 ng
RT: 15.511 min Scan# 1540
Delta R.T. 0.001 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

Tgt Ion	Ratio	Lower	Upper
166	100		
165	102.8	80.6	120.8
167	14.0	11.4	17.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.199 min Scan# 1

Delta R.T. -0.011 min

Lab File: BN035911.D

Acq: 10 Jan 2025 20:44

Instrument :

BNA_N

ClientSampleId :

PB166005BSD

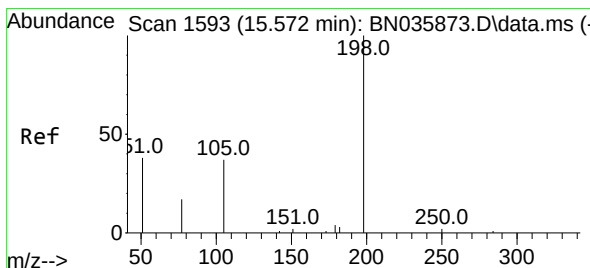
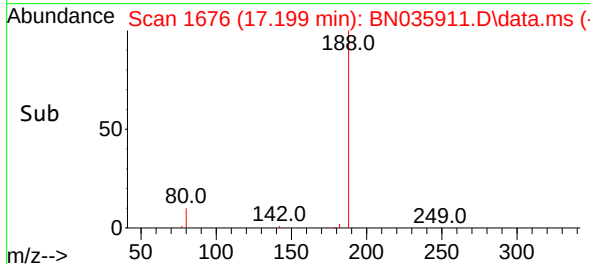
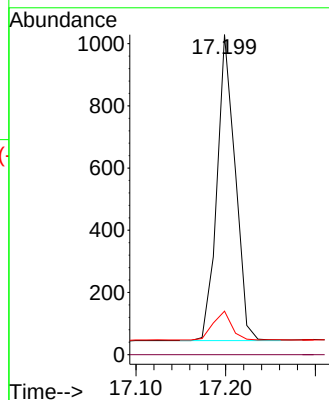
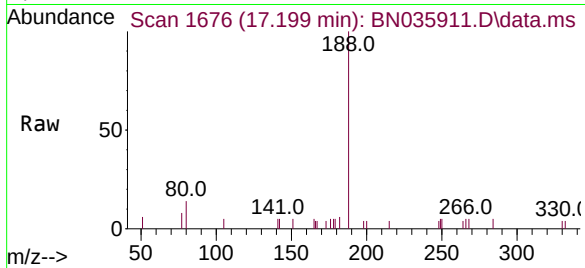
Tgt Ion:188 Resp: 1389

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.6 7.3 10.9#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.663 ng

RT: 15.573 min Scan# 1545

Delta R.T. 0.001 min

Lab File: BN035911.D

Acq: 10 Jan 2025 20:44

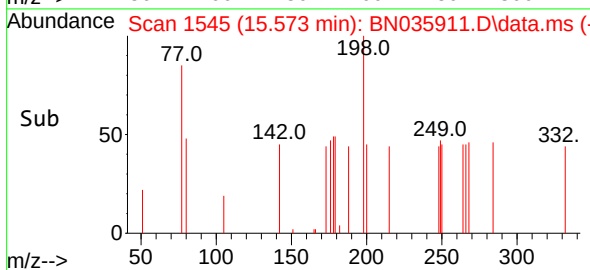
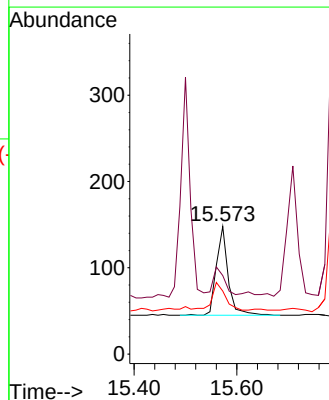
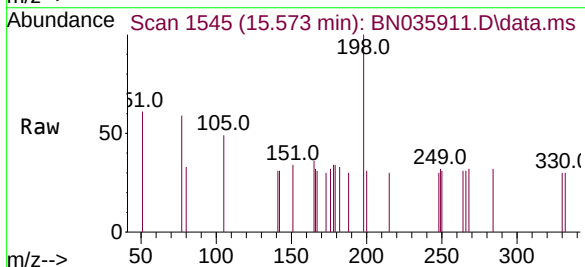
Tgt Ion:198 Resp: 160

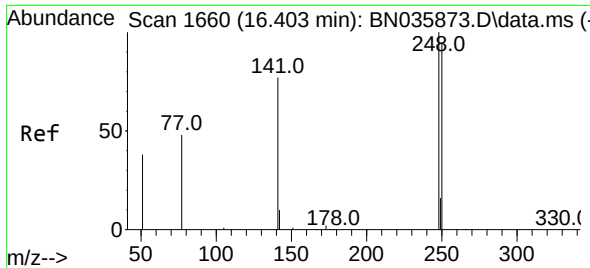
Ion Ratio Lower Upper

198 100

51 61.5 64.3 96.5#

105 49.3 50.0 75.0#

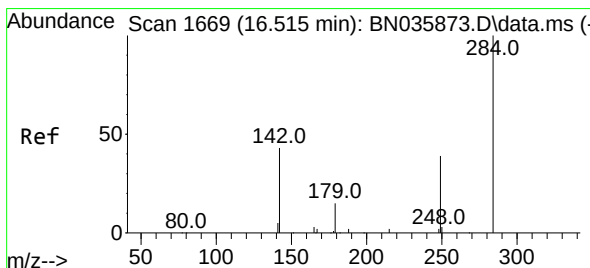
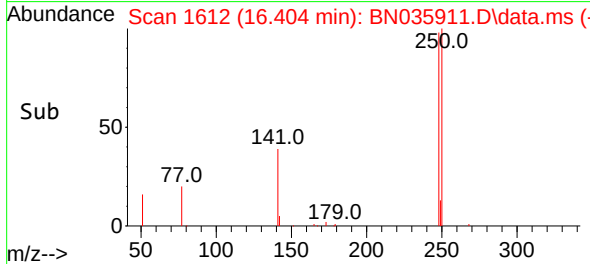
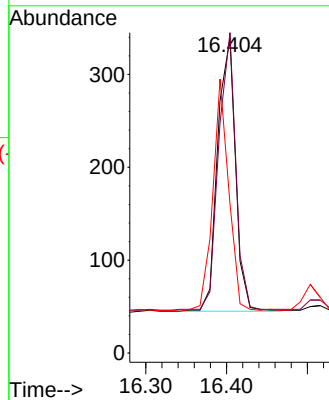
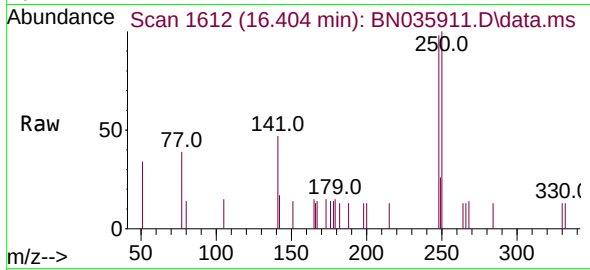




#21
4-Bromophenyl-phenylether
Concen: 0.477 ng
RT: 16.404 min Scan# 1612
Delta R.T. 0.001 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

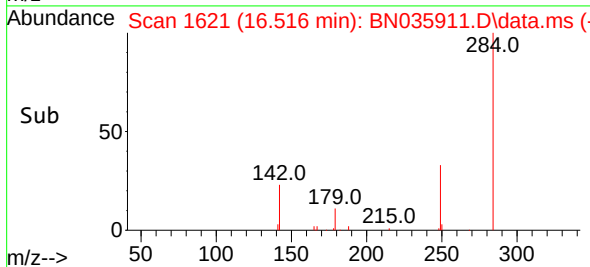
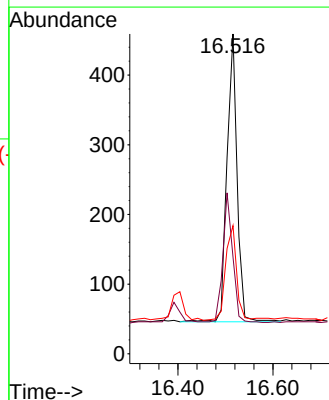
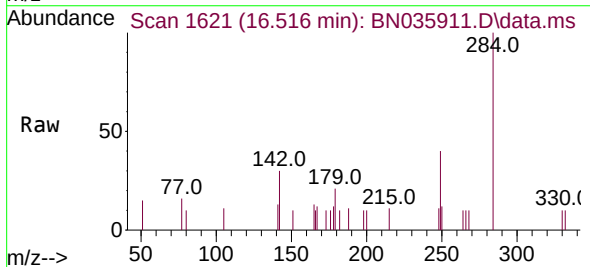
Instrument :
BNA_N
ClientSampleId :
PB166005BSD

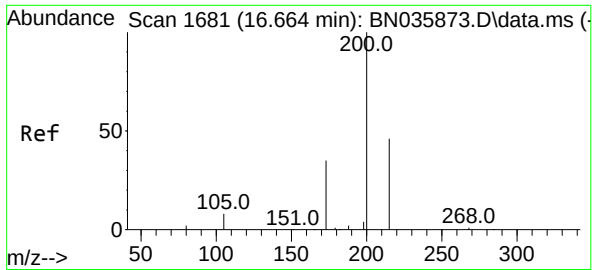
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.8	76.8	115.2
141	47.5	63.6	95.4



#22
Hexachlorobenzene
Concen: 0.468 ng
RT: 16.516 min Scan# 1621
Delta R.T. 0.001 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

Tgt Ion	Ratio	Lower	Upper
284	100		
142	43.6	31.4	47.0
249	35.5	27.8	41.8

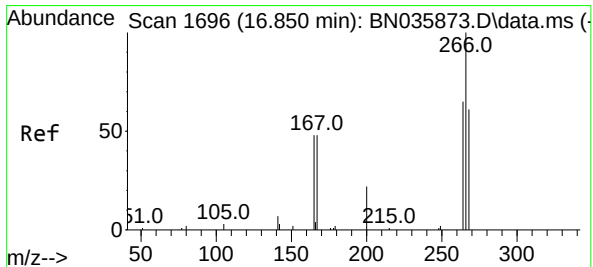
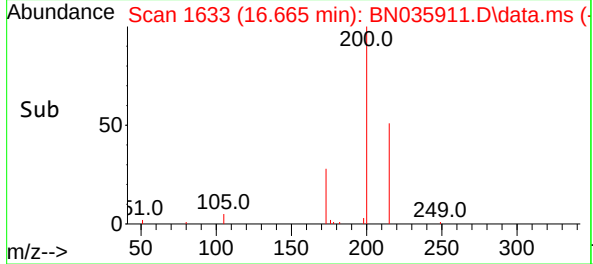
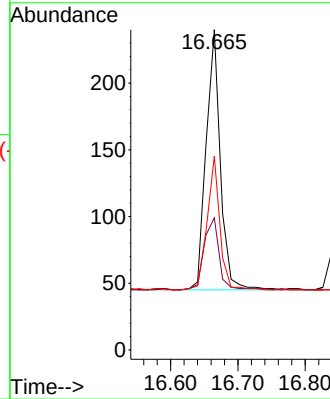
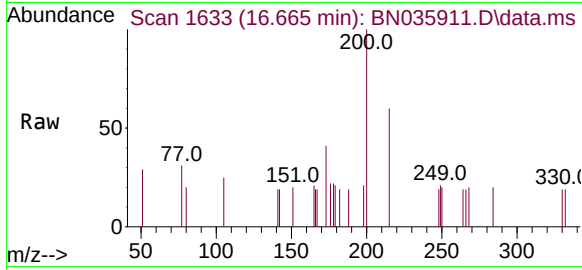




#23
Atrazine
Concen: 0.449 ng
RT: 16.665 min Scan# 1633
Delta R.T. 0.001 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

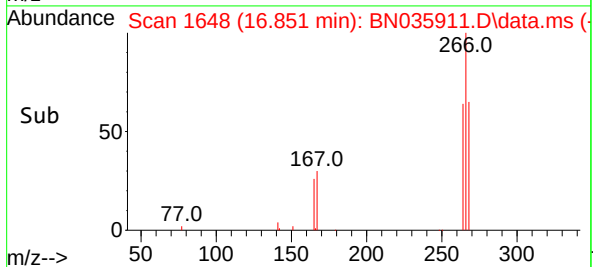
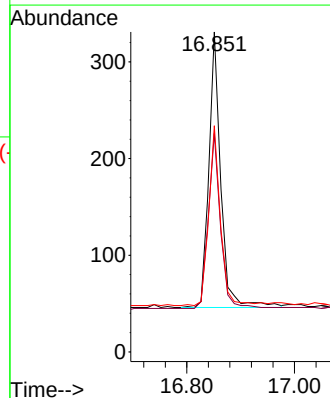
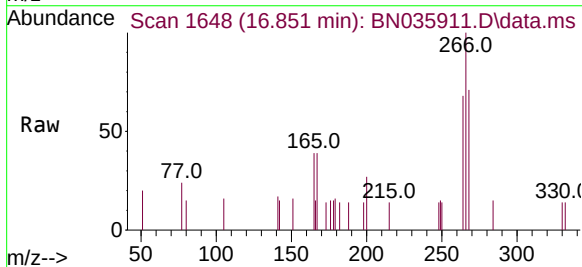
Instrument :
BNA_N
ClientSampleId :
PB166005BSD

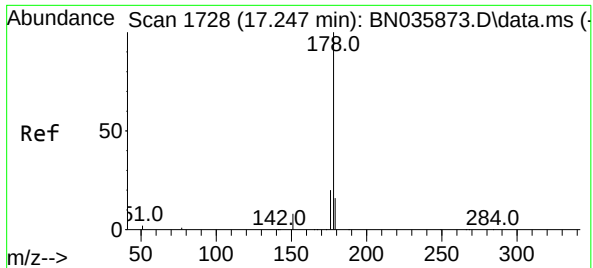
Tgt Ion	Ratio	Lower	Upper
200	100		
173	41.3	35.4	53.0
215	60.4	42.4	63.6



#24
Pentachlorophenol
Concen: 0.951 ng
RT: 16.851 min Scan# 1648
Delta R.T. 0.001 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

Tgt Ion	Ratio	Lower	Upper
266	100		
264	65.0	49.9	74.9
268	63.4	50.2	75.2

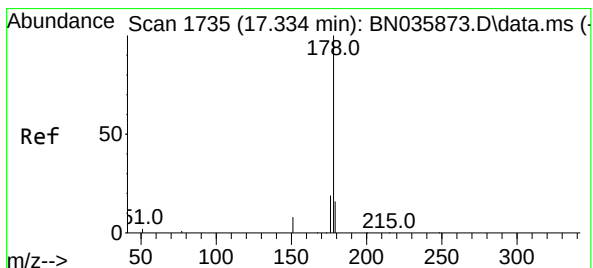
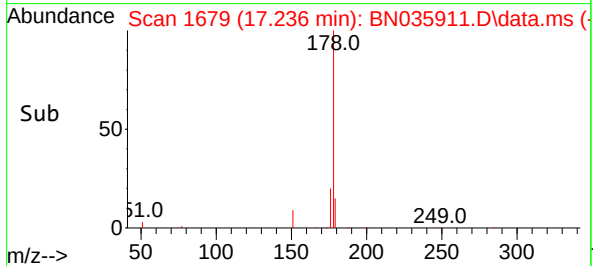
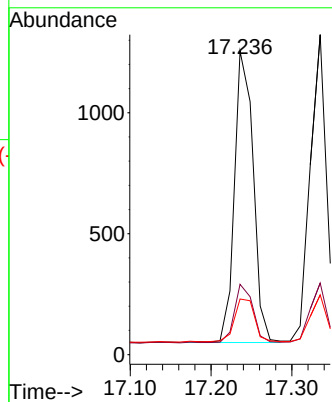
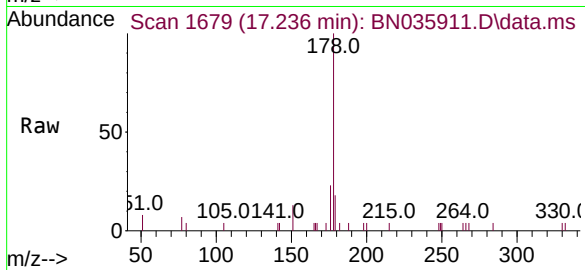




#25
Phenanthrene
Concen: 0.477 ng
RT: 17.236 min Scan# 1679
Delta R.T. -0.011 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

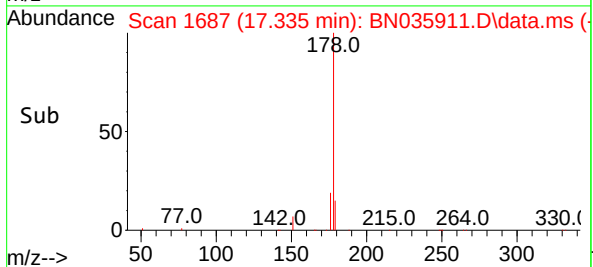
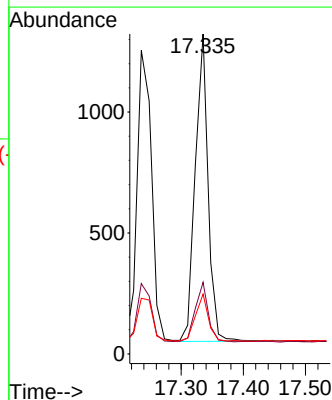
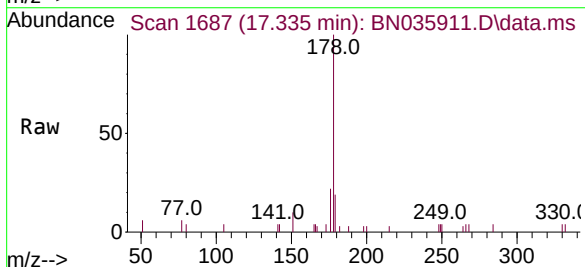
Instrument :
BNA_N
ClientSampleId :
PB166005BSD

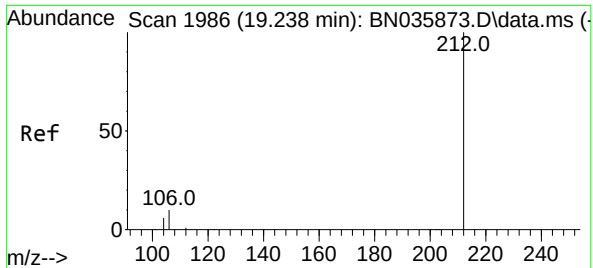
Tgt Ion:178 Resp: 1934
Ion Ratio Lower Upper
178 100
176 19.9 15.9 23.9
179 16.2 12.9 19.3



#26
Anthracene
Concen: 0.497 ng
RT: 17.335 min Scan# 1687
Delta R.T. 0.001 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

Tgt Ion:178 Resp: 1834
Ion Ratio Lower Upper
178 100
176 19.1 15.0 22.6
179 15.2 13.0 19.6

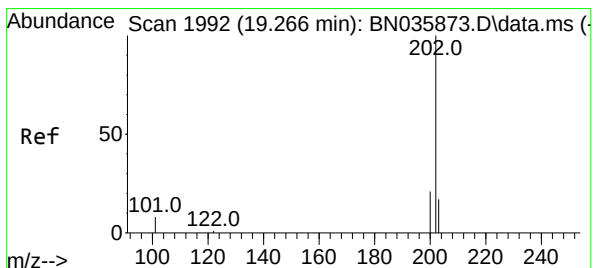
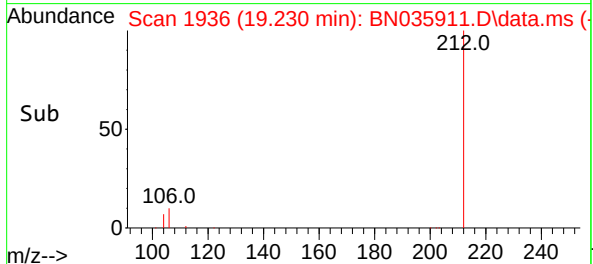
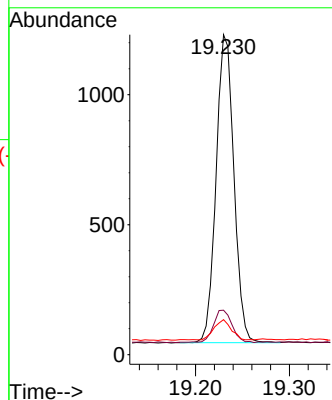
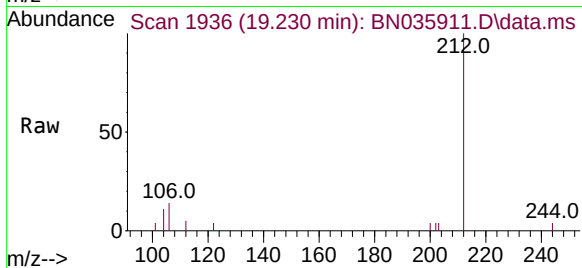




#27
Fluoranthene-d10
Concen: 0.453 ng
RT: 19.230 min Scan# 1943
Delta R.T. -0.008 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

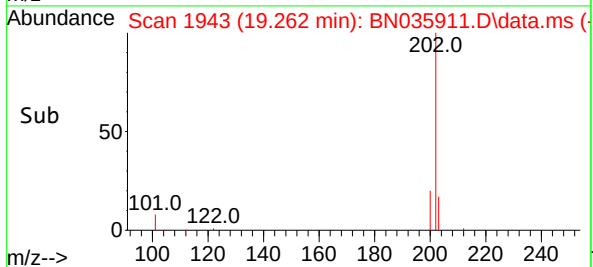
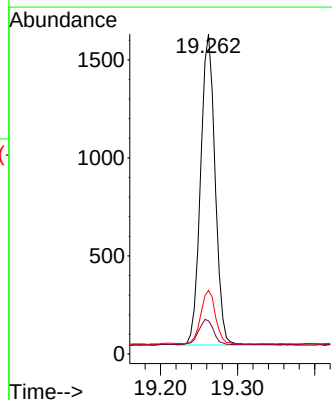
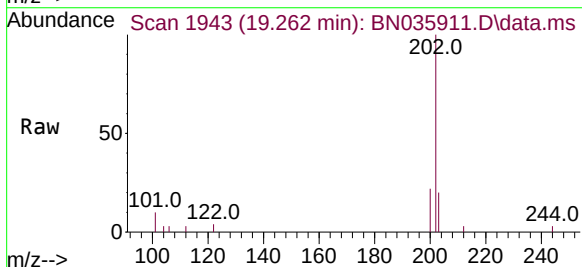
Instrument :
BNA_N
ClientSampleId :
PB166005BSD

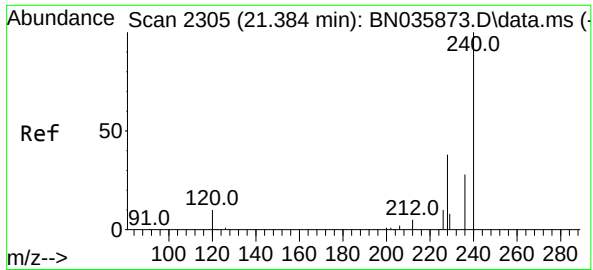
Tgt Ion	Ratio	Lower	Upper
212	100		
106	10.9	9.0	13.6
104	6.2	5.4	8.2



#28
Fluoranthene
Concen: 0.439 ng
RT: 19.262 min Scan# 1943
Delta R.T. -0.004 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

Tgt Ion	Ratio	Lower	Upper
202	100		
101	8.4	7.2	10.8
203	17.6	13.9	20.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.385 min Scan# 21

Delta R.T. 0.001 min

Lab File: BN035911.D

Acq: 10 Jan 2025 20:44

Instrument :

BNA_N

ClientSampleId :

PB166005BSD

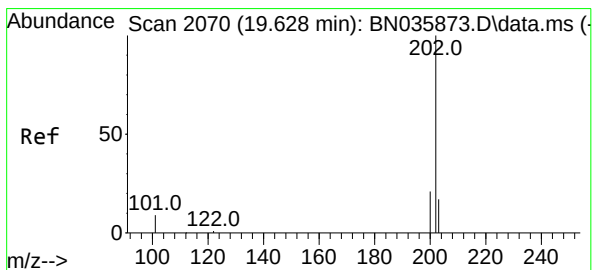
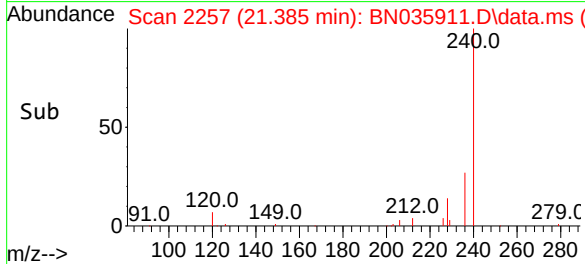
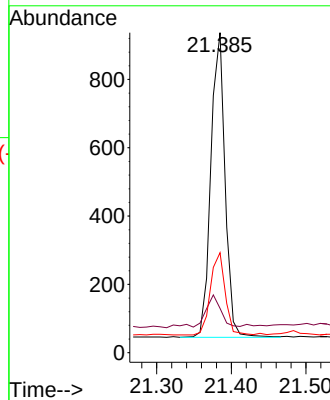
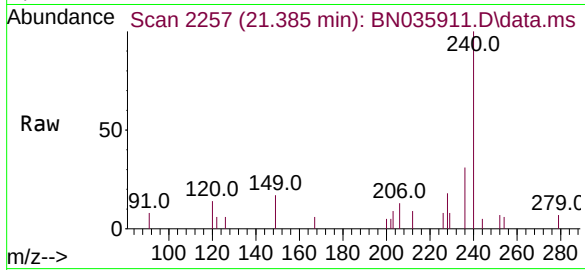
Tgt Ion:240 Resp: 1178

Ion Ratio Lower Upper

240 100

120 13.9 11.1 16.7

236 31.3 24.6 36.8



#30

Pyrene

Concen: 0.450 ng

RT: 19.625 min Scan# 2021

Delta R.T. -0.004 min

Lab File: BN035911.D

Acq: 10 Jan 2025 20:44

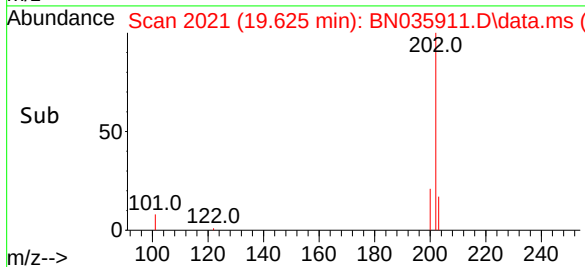
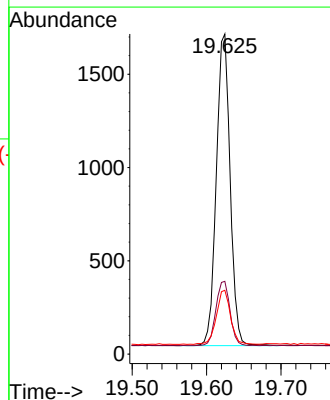
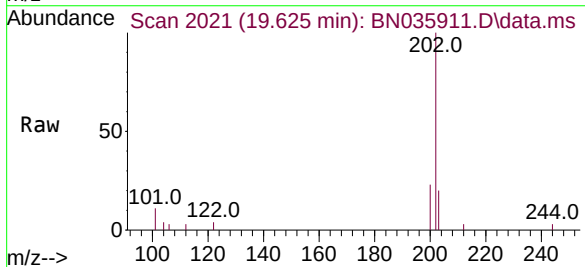
Tgt Ion:202 Resp: 2153

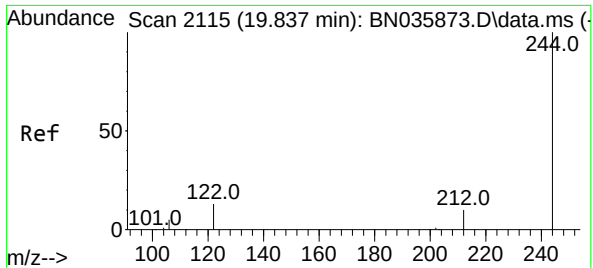
Ion Ratio Lower Upper

202 100

200 21.0 17.0 25.6

203 17.7 14.6 22.0

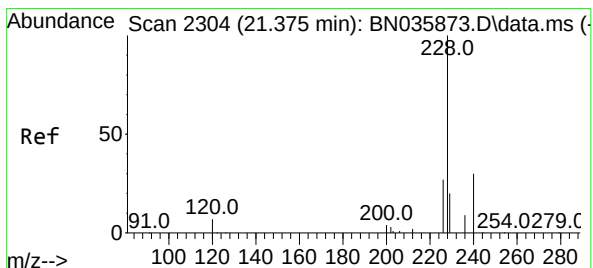
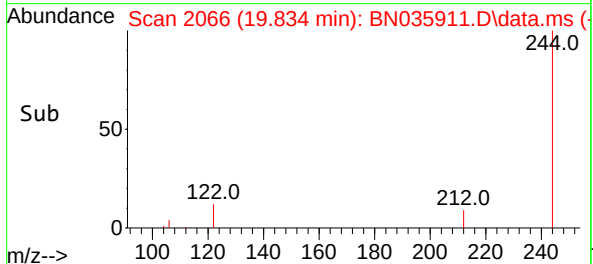
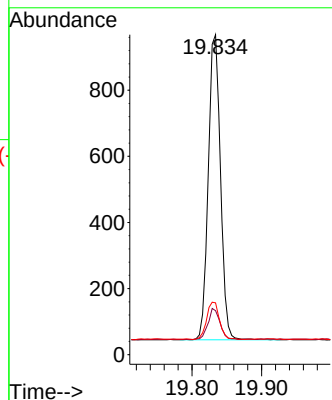
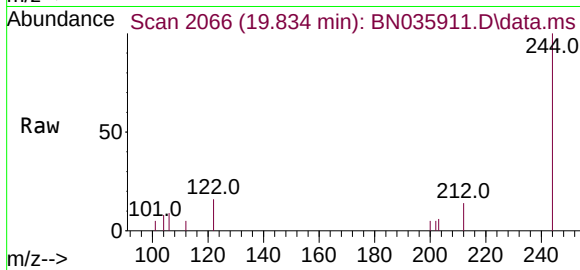




#31
Terphenyl-d14
Concen: 0.476 ng
RT: 19.834 min Scan# 20
Delta R.T. -0.004 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

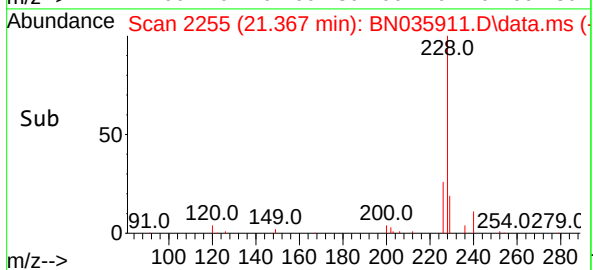
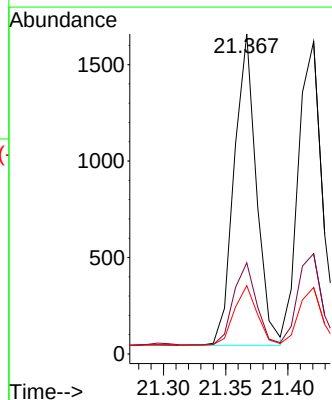
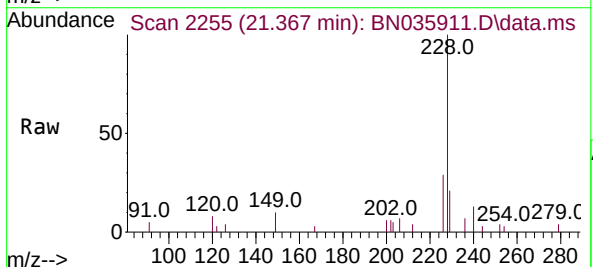
Instrument :
BNA_N
ClientSampleId :
PB166005BSD

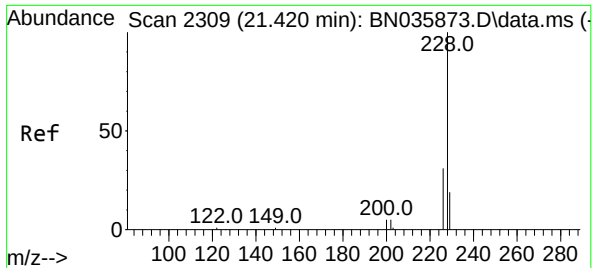
Tgt Ion	Ratio	Lower	Upper
244	100		
212	13.7	10.1	15.1
122	16.2	12.2	18.4



#32
Benzo(a)anthracene
Concen: 0.485 ng
RT: 21.367 min Scan# 2255
Delta R.T. -0.008 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.7	34.1
229	21.3	17.1	25.7

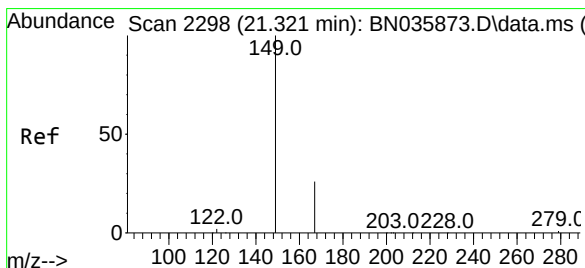
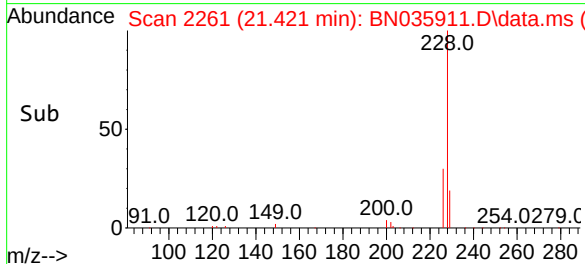
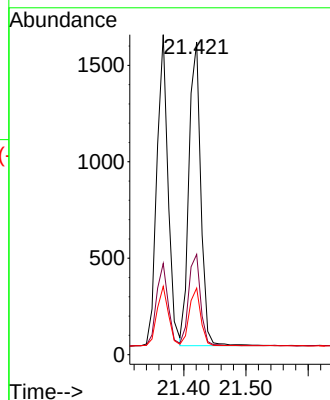
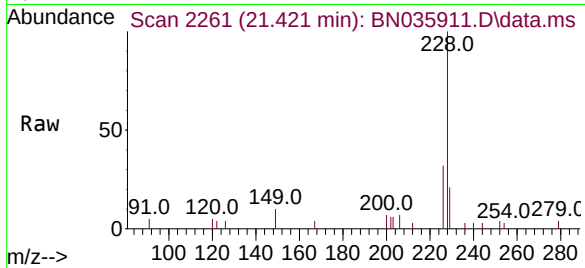




#33
Chrysene
Concen: 0.480 ng
RT: 21.421 min Scan# 21
Delta R.T. 0.001 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

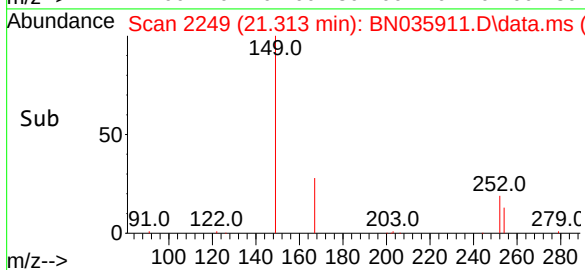
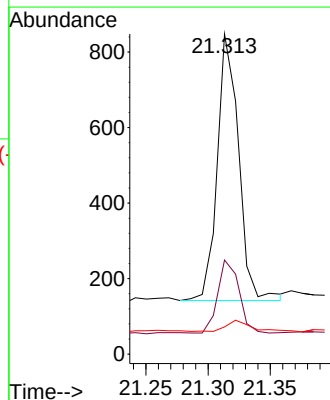
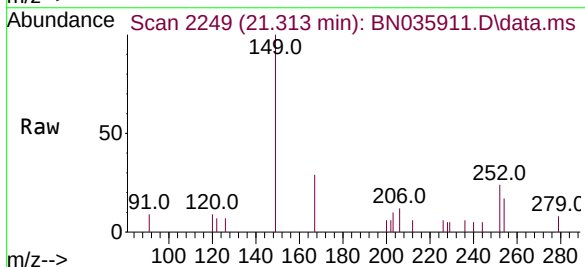
Instrument :
BNA_N
ClientSampleId :
PB166005BSD

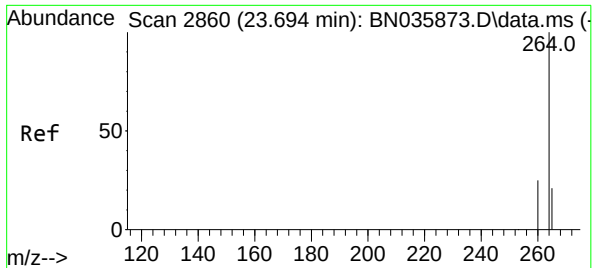
Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.1	25.2	37.8
229	21.3	16.0	24.0



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.499 ng
RT: 21.313 min Scan# 2249
Delta R.T. -0.008 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

Tgt Ion	Ratio	Lower	Upper
149	100		
167	27.0	21.4	32.0
279	5.3	3.0	4.6#

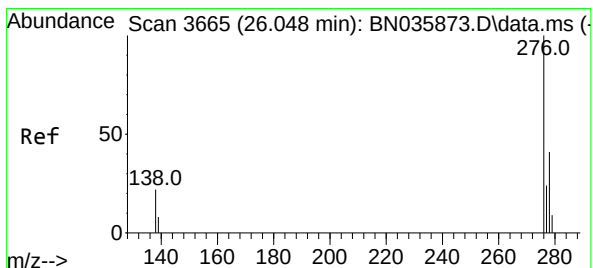
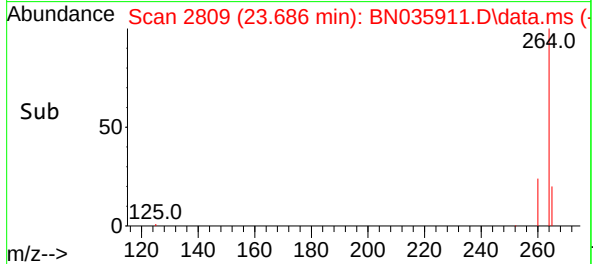
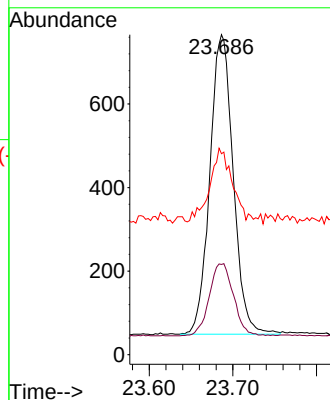
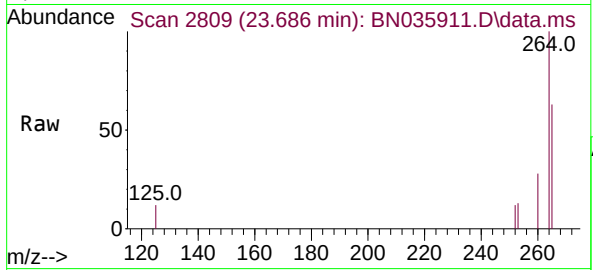




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.686 min Scan# 21
Delta R.T. -0.008 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

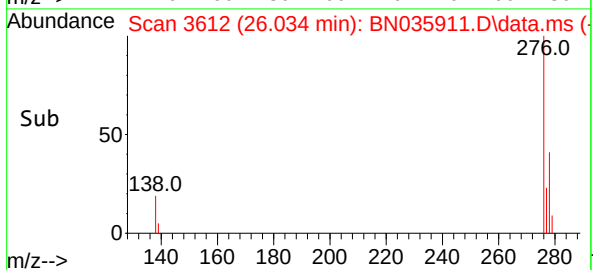
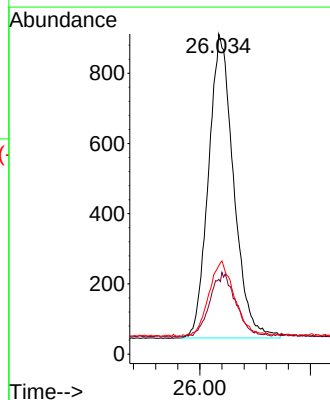
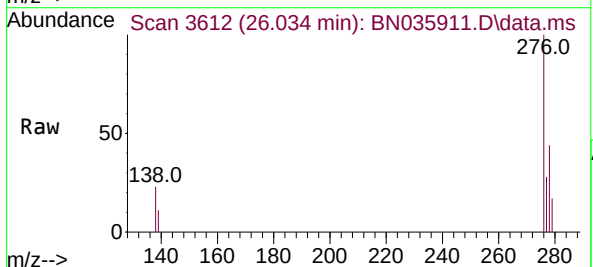
Instrument :
BNA_N
ClientSampleId :
PB166005BSD

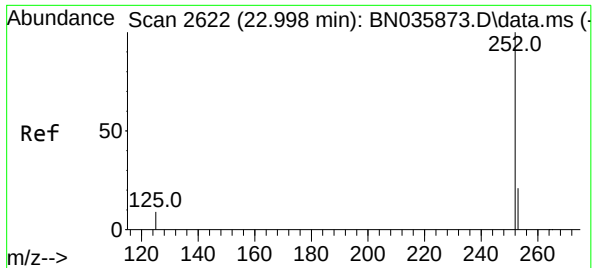
Tgt Ion:264 Resp: 1390
Ion Ratio Lower Upper
264 100
260 28.2 21.7 32.5
265 62.8 33.9 50.9#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.497 ng
RT: 26.034 min Scan# 3612
Delta R.T. -0.014 min
Lab File: BN035911.D
Acq: 10 Jan 2025 20:44

Tgt Ion:276 Resp: 2725
Ion Ratio Lower Upper
276 100
138 21.9 18.9 28.3
277 25.4 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.453 ng

RT: 22.991 min Scan# 2162

Delta R.T. -0.008 min

Lab File: BN035911.D

Acq: 10 Jan 2025 20:44

Instrument :

BNA_N

ClientSampleId :

PB166005BSD

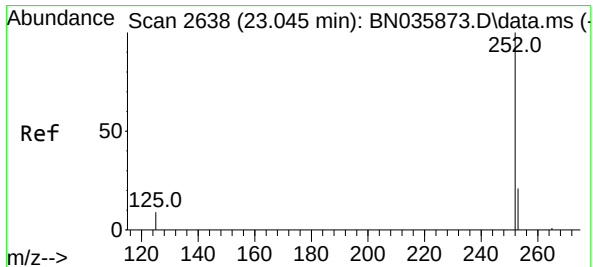
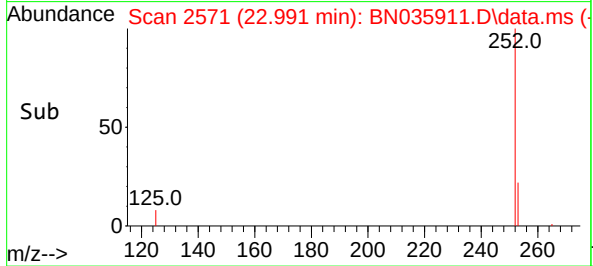
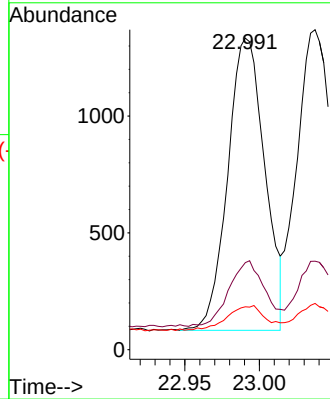
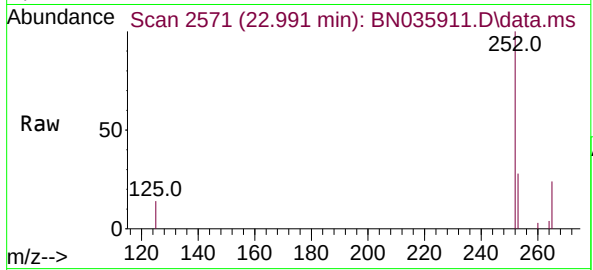
Tgt Ion:252 Resp: 2162

Ion Ratio Lower Upper

252 100

253 28.0 20.1 30.1

125 13.8 9.9 14.9



#38

Benzo(k)fluoranthene

Concen: 0.456 ng

RT: 23.037 min Scan# 2587

Delta R.T. -0.008 min

Lab File: BN035911.D

Acq: 10 Jan 2025 20:44

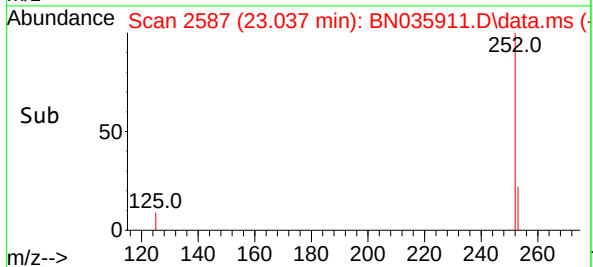
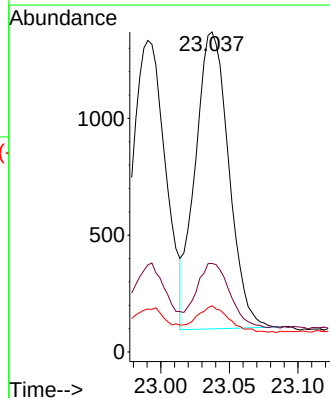
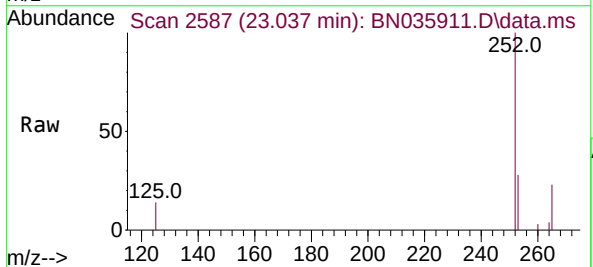
Tgt Ion:252 Resp: 2157

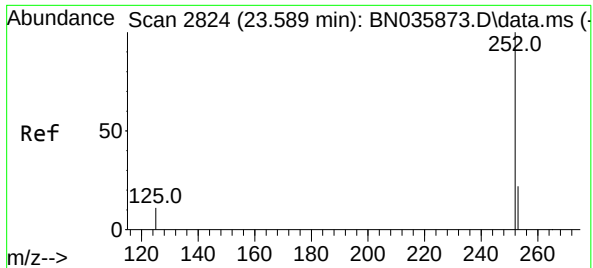
Ion Ratio Lower Upper

252 100

253 27.7 20.5 30.7

125 14.5 10.6 16.0





#39

Benzo(a)pyrene

Concen: 0.493 ng

RT: 23.584 min Scan# 21

Delta R.T. -0.005 min

Lab File: BN035911.D

Acq: 10 Jan 2025 20:44

Instrument :

BNA_N

ClientSampleId :

PB166005BSD

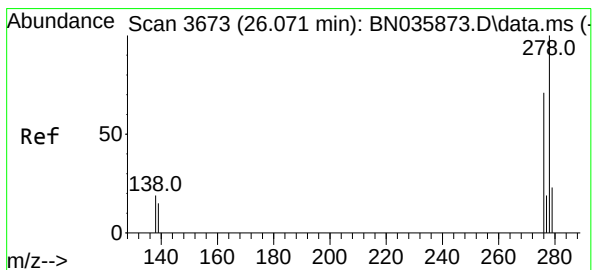
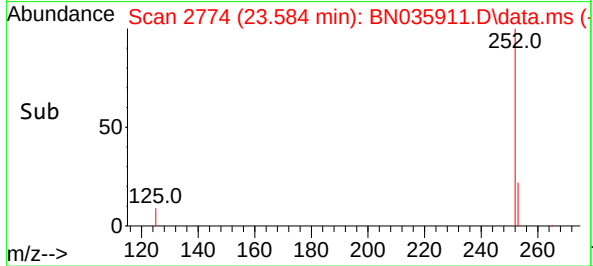
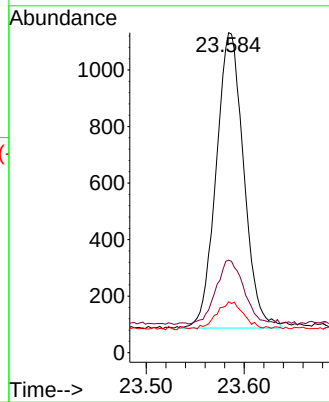
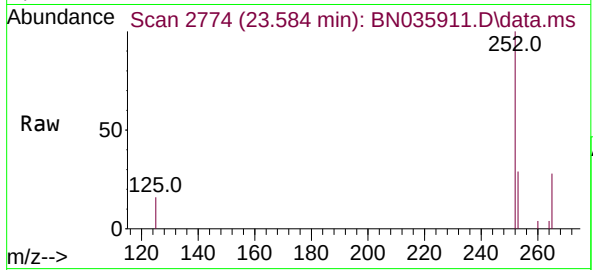
Tgt Ion:252 Resp: 2039

Ion Ratio Lower Upper

252 100

253 28.9 21.5 32.3

125 15.9 12.6 19.0



#40

Dibenzo(a,h)anthracene

Concen: 0.495 ng

RT: 26.057 min Scan# 3620

Delta R.T. -0.014 min

Lab File: BN035911.D

Acq: 10 Jan 2025 20:44

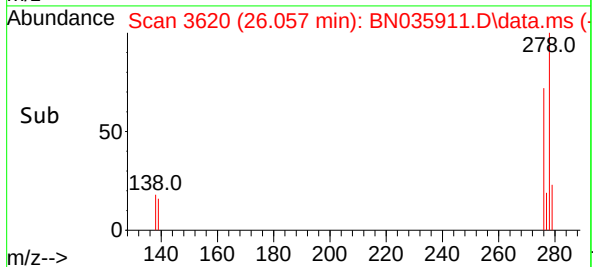
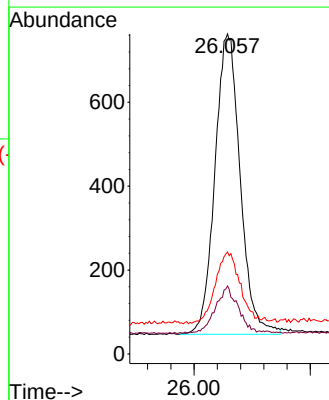
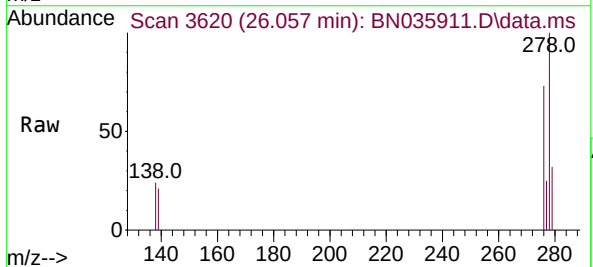
Tgt Ion:278 Resp: 2157

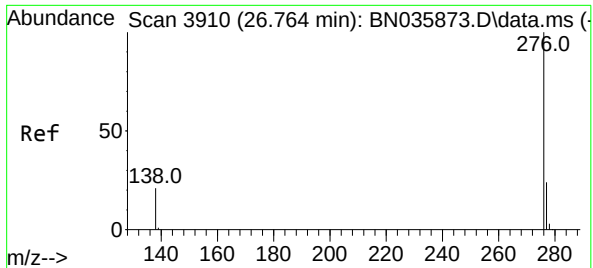
Ion Ratio Lower Upper

278 100

139 21.2 15.9 23.9

279 31.8 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 0.451 ng

RT: 26.750 min Scan# 31

Delta R.T. -0.014 min

Lab File: BN035911.D

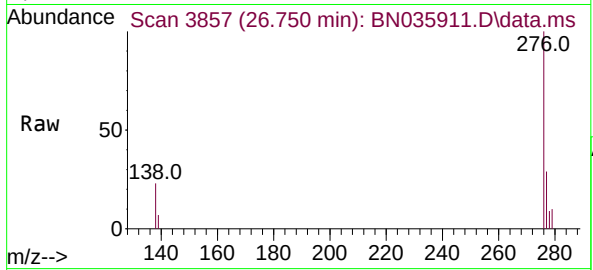
Acq: 10 Jan 2025 20:44

Instrument :

BNA_N

ClientSampleId :

PB166005BSD



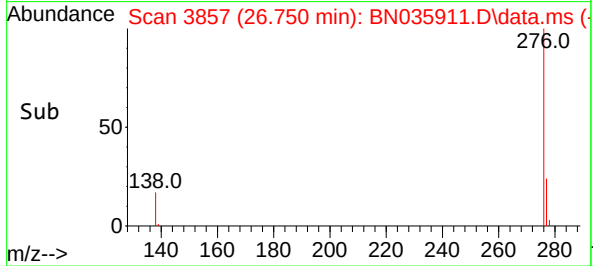
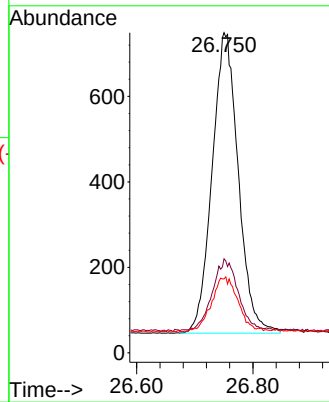
Tgt Ion:276 Resp: 2197

Ion Ratio Lower Upper

276 100

277 29.4 22.8 34.2

138 23.1 20.1 30.1





Manual Integration Report

Sequence:	BN010225	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

Manual Integration Report

Sequence:	bn011025	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1040-03	BN035908.D	Phenanthrene	yogesh	1/13/2025 12:24:38 AM	mohammad	1/14/2025 11:23:16 PM	Peak Integrated by Software
SSTDCCC0.4	BN035912.D	Benzo(k)fluoranthene	yogesh	1/13/2025 12:24:39 AM	mohammad	1/14/2025 11:23:16 PM	Peak Integrated by Software



Manual Integration Report

Sequence:	BN011325	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 # BN010225

Review By	Jagrut	Review On	1/3/2025 3:37:20 PM
Supervise By	mohammad	Supervise On	1/6/2025 8:20:47 AM
SubDirectory	BN010225	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn010225
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657		
CCC	SP6661		
Internal Standard/PEM	SP6682,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035870.D	02 Jan 2025 10:49	RC/JU	Ok
2	SSTDICC0.1	BN035871.D	02 Jan 2025 11:28	RC/JU	Ok
3	SSTDICC0.2	BN035872.D	02 Jan 2025 12:04	RC/JU	Ok
4	SSTDICCC0.4	BN035873.D	02 Jan 2025 12:40	RC/JU	Ok
5	SSTDICC0.8	BN035874.D	02 Jan 2025 13:16	RC/JU	Ok
6	SSTDICC1.6	BN035875.D	02 Jan 2025 13:52	RC/JU	Ok
7	SSTDICC3.2	BN035876.D	02 Jan 2025 14:28	RC/JU	Ok
8	SSTDICC5.0	BN035877.D	02 Jan 2025 15:04	RC/JU	Ok
9	SSTDICV0.4	BN035878.D	02 Jan 2025 15:51	RC/JU	Ok
10	PB165828BL	BN035879.D	02 Jan 2025 16:41	RC/JU	Not Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN011025

Review By	yogesh	Review On	1/13/2025 12:24:41 AM
Supervise By	mohammad	Supervise On	1/14/2025 11:23:16 PM
SubDirectory	BN011025	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn010225
STD. NAME	STD REF.#		
Tune/Reschk	SP6701		
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657		
CCC	SP6661		
Internal Standard/PEM	SP6682,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035903.D	10 Jan 2025 12:38	RC/JU	Ok
2	SSTDCCC0.4	BN035904.D	10 Jan 2025 13:17	RC/JU	Ok
3	PB166005BL	BN035905.D	10 Jan 2025 17:09	RC/JU	Ok
4	Q1040-01	BN035906.D	10 Jan 2025 17:45	RC/JU	Dilution
5	Q1040-02	BN035907.D	10 Jan 2025 18:21	RC/JU	Ok
6	Q1040-03	BN035908.D	10 Jan 2025 18:56	RC/JU	Ok,M
7	Q1062-02	BN035909.D	10 Jan 2025 19:32	RC/JU	Ok
8	PB166005BS	BN035910.D	10 Jan 2025 20:08	RC/JU	Not Ok
9	PB166005BSD	BN035911.D	10 Jan 2025 20:44	RC/JU	Ok
10	SSTDCCC0.4	BN035912.D	10 Jan 2025 21:20	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN011325

Review By	yogesh	Review On	1/14/2025 10:36:27 AM
Supervise By	Jagrut	Supervise On	1/14/2025 10:36:57 AM
SubDirectory	BN011325	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn010225
STD. NAME	STD REF.#		
Tune/Reschk	SP6701		
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657		
CCC	SP6661		
Internal Standard/PEM	SP6682,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035913.D	13 Jan 2025 09:28	RC/JU	Ok
2	SSTDCCC0.4	BN035914.D	13 Jan 2025 10:07	RC/JU	Ok
3	PB166005BL	BN035915.D	13 Jan 2025 10:44	RC/JU	Ok
4	Q1040-01DL	BN035916.D	13 Jan 2025 11:20	RC/JU	Ok
5	PB166005BS	BN035917.D	13 Jan 2025 11:56	RC/JU	Ok
6	SSTDCCC0.4	BN035918.D	13 Jan 2025 12:37	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN010225

Review By	Jagrut	Review On	1/3/2025 3:37:20 PM
Supervise By	mohammad	Supervise On	1/6/2025 8:20:47 AM
SubDirectory	BN010225	HP Acquire Method	BNA_N, 8270_HP Processing Method bn010225

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035870.D	02 Jan 2025 10:49		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN035871.D	02 Jan 2025 11:28		RC/JU	Ok
3	SSTDICC0.2	SSTDICC0.2	BN035872.D	02 Jan 2025 12:04		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN035873.D	02 Jan 2025 12:40	The Calibration is Good For DOD	RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN035874.D	02 Jan 2025 13:16		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN035875.D	02 Jan 2025 13:52		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN035876.D	02 Jan 2025 14:28		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN035877.D	02 Jan 2025 15:04		RC/JU	Ok
9	SSTDICV0.4	ICVBN010225	BN035878.D	02 Jan 2025 15:51		RC/JU	Ok
10	PB165828BL	PB165828BL	BN035879.D	02 Jan 2025 16:41	Analyzed for Contamination check	RC/JU	Not Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN011025

Review By	yogesh	Review On	1/13/2025 12:24:41 AM
Supervise By	mohammad	Supervise On	1/14/2025 11:23:16 PM
SubDirectory	BN011025	HP Acquire Method	BNA_N, 8270_HP Processing Method bn010225

STD. NAME	STD REF.#
Tune/Reschk	SP6701
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035903.D	10 Jan 2025 12:38		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN035904.D	10 Jan 2025 13:17		RC/JU	Ok
3	PB166005BL	PB166005BL	BN035905.D	10 Jan 2025 17:09		RC/JU	Ok
4	Q1040-01	RW5-SP100-20250108	BN035906.D	10 Jan 2025 17:45	Need 5X Dilution	RC/JU	Dilution
5	Q1040-02	RW5-SP201-20250108	BN035907.D	10 Jan 2025 18:21		RC/JU	Ok
6	Q1040-03	RW5-SP303-20250108	BN035908.D	10 Jan 2025 18:56		RC/JU	Ok,M
7	Q1062-02	VPB190A-HYD-20250108	BN035909.D	10 Jan 2025 19:32		RC/JU	Ok
8	PB166005BS	PB166005BS	BN035910.D	10 Jan 2025 20:08	Internal Standard Fail	RC/JU	Not Ok
9	PB166005BSD	PB166005BSD	BN035911.D	10 Jan 2025 20:44		RC/JU	Ok
10	SSTDCCC0.4	SSTDCCC0.4EC	BN035912.D	10 Jan 2025 21:20		RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN011325

Review By	yogesh	Review On	1/14/2025 10:36:27 AM
Supervise By	Jagrut	Supervise On	1/14/2025 10:36:57 AM
SubDirectory	BN011325	HP Acquire Method	BNA_N, 8270_HP Processing Method bn010225

STD. NAME	STD REF.#
Tune/Reschk	SP6701
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035913.D	13 Jan 2025 09:28		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN035914.D	13 Jan 2025 10:07		RC/JU	Ok
3	PB166005BL	PB166005BL	BN035915.D	13 Jan 2025 10:44		RC/JU	Ok
4	Q1040-01DL	RW5-SP100-20250108	BN035916.D	13 Jan 2025 11:20		RC/JU	Ok
5	PB166005BS	PB166005BS	BN035917.D	13 Jan 2025 11:56		RC/JU	Ok
6	SSTDCCC0.4	SSTDCCC0.4EC	BN035918.D	13 Jan 2025 12:37		RC/JU	Ok

M : Manual Integration

SOP ID:	M3510C,3580A-Extraction SVOC-20		
Clean Up SOP #:	N/A	Extraction Start Date :	01/10/2025
Matrix :	Water	Extraction Start Time :	08:10
Weigh By:	N/A	Extraction By:	RP
Balance check:	N/A	Filter By:	RP
Balance ID:	N/A	pH Meter ID:	N/A
pH Strip Lot#:	E3574	Hood ID:	4,5,6,7
Extraction Method:	☒ Separatory Funnel	☐ Continous Liquid/Liquid	☐ Sonication
		☐ Waste Dilution	☐ Soxhlet
		Extraction End Date :	01/10/2025
		Extraction End Time :	16:55
		Concentration By:	EH
		Supervisor By :	rajesh

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6616
Surrogate	1.0ML	0.4 PPM	SP6666
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3848
Baked Na2SO4	N/A	EP2577
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH. Q1062 Added in batch at 12:49.

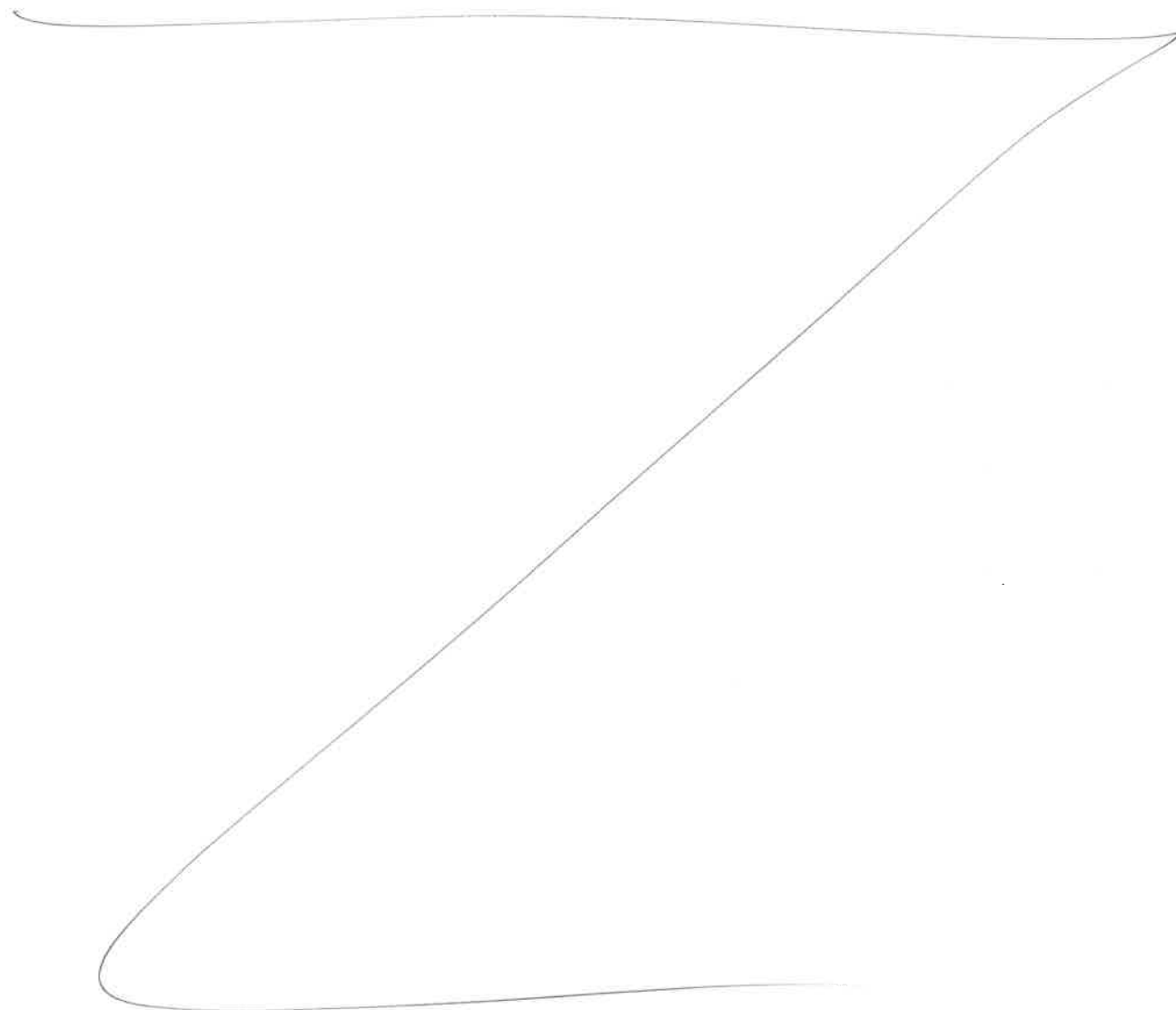
KD Bath ID:	Water bath -01,02	Envap ID:	NEVAP-02
KD Bath Temperature:	60 °C	Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/10/25 17:00	RP (Sat. Lab)	Rel/SVOC
	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 01/10/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166005BL	SBLK005	SVOC-SIMGrou p1	1000	6	RUPESH	Evelyn	1			SEP-01
PB166005BS	SLCS005	SVOC-SIMGrou p1	1000	6	RUPESH	Evelyn	1			2
PB166005BS D	SLCSD005	SVOC-SIMGrou p1	1000	6	RUPESH	Evelyn	1			3
Q1040-01	RW5-SP100-20250108	SVOC-SIMGrou p1	990	6	RUPESH	Evelyn	1	B		4
Q1040-02	RW5-SP201-20250108	SVOC-SIMGrou p1	980	6	RUPESH	Evelyn	1			5
Q1040-03	RW5-SP303-20250108	SVOC-SIMGrou p1	970	6	RUPESH	Evelyn	1	B		6
Q1062-02	VPB190A-HYD-20250107	SVOC-SIMGrou p1	970	6	RUPESH	Evelyn	1	C		7



* Extracts relinquished on the same date as received.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1040

WorkList ID : 186853

Department : Extraction

Date : 01-10-2025 08:04:19

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1040-01	RW5-SP100-20250108	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	N41	01/08/2025	8270-Modified
Q1040-02	RW5-SP201-20250108	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	N41	01/08/2025	8270-Modified
Q1040-03	RW5-SP303-20250108	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	N41	01/08/2025	8270-Modified

Date/Time 01/10/25 8:05
Raw Sample Received by: R (Rep Log)
Raw Sample Relinquished by: Ouf gm

Date/Time 01/10/25 8:00
Raw Sample Received by: R (Rep Log)
Raw Sample Relinquished by: R (Rep Log)

WORKLIST(Hardcopy Internal Chain)

WorkList Name : q1062

WorkList ID : 186867

Department : Extraction

Date : 01-10-2025 12:49:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1062-02	VPB190A-HYD-20250107	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	M11	01/07/2025	8270-Modified

Date/Time 01/10/25 12:49
Raw Sample Received by: R. Giet (us)
Raw Sample Relinquished by: AP S

Date/Time 01/10/25 12:49
Raw Sample Received by: AP S
Raw Sample Relinquished by: R. Giet (us)

Prep Standard - Chemical Standard Summary

Order ID : Q1040
Test : SVOC-SIMGroup1
Prepbatch ID : PB166005,
Sequence ID/Qc Batch ID: bn011025,BN011325,

Standard ID :
EP2559,EP2565,EP2577,SP6616,SP6629,SP6656,SP6657,SP6658,SP6659,SP6660,SP6661,SP6662,SP6663,SP666
6,SP6682,SP6683,SP6684,SP6701,

Chemical ID :
1ul/100ul
sample,E3551,E3657,E3788,E3791,E3817,E3818,E3828,E3848,M5173,S10103,S10247,S 11011,S11074,S11097,S114
94,S11792,S11831,S12077,S12079,S12105,S12113,S12126,S12142,S12189,S12207,S12208,S12314,S12328,S12453
,S12469,S12517,W3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2559	11/14/2024	05/14/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024

FROM 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2577	01/06/2025	07/01/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 01/06/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6616	09/06/2024	02/12/2025	Rahul Chavli	None	None	mohammad ahmed 09/11/2024

FROM 0.00160ml of S11011 + 0.02000ml of S11792 + 0.04000ml of S12105 + 0.04000ml of S12126 + 0.04000ml of S12453 +
99.85840ml of E3788 = 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>
3493	Internal Standard 0.4 PPM	SP6629	09/12/2024	03/04/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								10/14/2024

FROM 0.10000ml of S12314 + 4.90000ml of E3791 = 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)	SP6656	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.03350ml of S10103 + 0.05000ml of S11494 + 0.05000ml of S12079 + 0.12500ml of S11831 + 0.12500ml of S12113 + 0.20000ml of S12077 + 0.25000ml of S11097 + 24.16650ml of E3817 = 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	SP6657	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.50000ml of E3817 + 0.01000ml of SP6629 + 0.50000ml of SP6656 = 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	SP6658	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.68000ml of E3817 + 0.01000ml of SP6629 + 0.32000ml of SP6656 = 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	SP6659	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.84000ml of E3817 + 0.01000ml of SP6629 + 0.16000ml of SP6656 = 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	SP6660	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.92000ml of E3817 + 0.01000ml of SP6629 + 0.08000ml of SP6656 = 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	SP6661	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.96000ml of E3817 + 0.01000ml of SP6629 + 0.04000ml of SP6656 = 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	SP6662	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.50000ml of E3817 + 0.01000ml of SP6629 + 0.50000ml of SP6661 = 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	SP6663	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.75000ml of E3817 + 0.01000ml of SP6629 + 0.25000ml of SP6661 = 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>
3491	8270-SIM-Surrogate 0.4 PPM	SP6666	10/29/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.00800ml of S12189 + 0.01600ml of S12207 + 0.04000ml of S11831 + 199.93600ml of E3818 = Final Quantity: 200.000 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	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>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6683	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								12/03/2024

FROM SOURCE
0.00630ml of S12189 + 0.01280ml of S12208 + 0.03200ml of S11074 + 0.03200ml of S11831 + 0.06400ml of S12142 +
0.06400ml of S12469 + 0.06400ml of S12517 + 19.72490ml of E3828 = Final Quantity: 20.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6684	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
SOURCE FROM 0.87500ml of E3828 + 0.01000ml of SP6682 + 0.12500ml of SP6683 = Final Quantity: 1.010 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTTP 8270E	SP6701	12/30/2024	01/15/2025	Rahul Chavli	None	None	mohammad ahmed
FROM 0.35000ml of S10247 + 6.65000ml of E3848 = Final Quantity: 7.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	04/23/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

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)	24G2362009	03/09/2025	09/09/2024 / Rajesh	09/03/2024 / Rajesh	E3791

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)	24H2762011	04/09/2025	10/09/2024 / Rajesh	10/09/2024 / Rajesh	E3817

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/23/2025	10/23/2024 / Rajesh	10/09/2024 / Rajesh	E3818

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)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	06/18/2025	12/18/2024 / Rajesh	12/09/2024 / Rajesh	E3848

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	02/08/2025	08/08/2024 / Jagrut	12/09/2021 / Christian	S10103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0182667	01/15/2025	07/15/2024 / Rahul	03/18/2022 / Christian	S10247

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]	A0193449	02/20/2025	08/20/2024 / yogesh	01/13/2023 / Christian	S11011

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	495831	02/08/2025	08/08/2024 / Jagrut	02/07/2023 / Christian	S11097

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	02/08/2025	08/08/2024 / Jagrut	08/11/2023 / Yogesh	S11494

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	02/21/2025	08/21/2024 / Jagrut	11/21/2023 / Rahul	S11792

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	04/11/2025	10/11/2024 / Jagrut	11/21/2023 / rahul	S11831

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	02/08/2025	08/08/2024 / Jagrut	01/31/2024 / Rahul	S12077

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	04/24/2025	10/24/2024 / Jagrut	01/31/2024 / Rahul	S12079

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]	A0207706	02/12/2025	08/12/2024 / Rahul	02/05/2024 / Rahul	S12105

[CS 4978-2]

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	02/09/2025	08/09/2024 / Jagrut	03/08/2024 / Rahul	S12113

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	02/12/2025	08/12/2024 / Rahul	03/15/2024 / Rahul	S12126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12142

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0206381	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12207

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0206381	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0206540	03/04/2025	09/04/2024 / anahy	05/30/2024 / Rahul	S12314

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0206540	05/13/2025	11/13/2024 / anahy	05/30/2024 / Rahul	S12328

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	02/12/2025	08/12/2024 / Rahul	07/23/2024 / RAHUL	S12453

[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	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

[CS 4978-1]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**
Z-112090 440246 $\leq -10^{\circ}\text{C}$ Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: _____

Erica Castiglione
Chemist



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Receivalon
02/07/23 by CG

Sheet 511096
to
511099

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	495831	≤ -10 °C	Methylene Chloride	10/30/2027	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	1003 ± 17.27
acenaphthylene	208-96-8	97.6	14.290.1P	999.8 ± 17.22
aniline	62-53-3	99.9	64.7.1P	995 ± 17.13
anthracene	120-12-7	99.5	15.7.1P	1001 ± 17.24
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 17.21
benzo[a]anthracene	56-55-3	100	16.7.3P	1001 ± 17.24
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1001 ± 19.91
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 17.92
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 19.88
benzo[a]pyrene	50-32-8	97	20.286.2P	999.1 ± 26.35
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 17.24
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	999.7 ± 17.89
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1001 ± 17.23
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.13P	999.5 ± 17.89
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 17.21
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 19.86
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1P	999.1 ± 17.2
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 19.58
carbazole	86-74-8	99.4	239.7.2P	1000 ± 17.22

*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

Brianna Smith

Certified By: _____

Brianna Smith
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.: 495831

Expiration Date: 10/30/2027

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	1000 ± 17.22
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	1000 ± 17.22
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	1002 ± 17.25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By:



Briana Smith
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: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
03/10/22
by
CG
S10242
to
S10247

Catalog No. : 31615 **Lot No.:** A0182667
Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2025 **Storage:** 10°C or colder
Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachlorophenol CAS # 87-86-5 (Lot 211229RSR) Purity 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) CAS # 5074-71-5 (Lot Q117-147) Purity 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine CAS # 92-87-5 (Lot 211228JLM) Purity 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

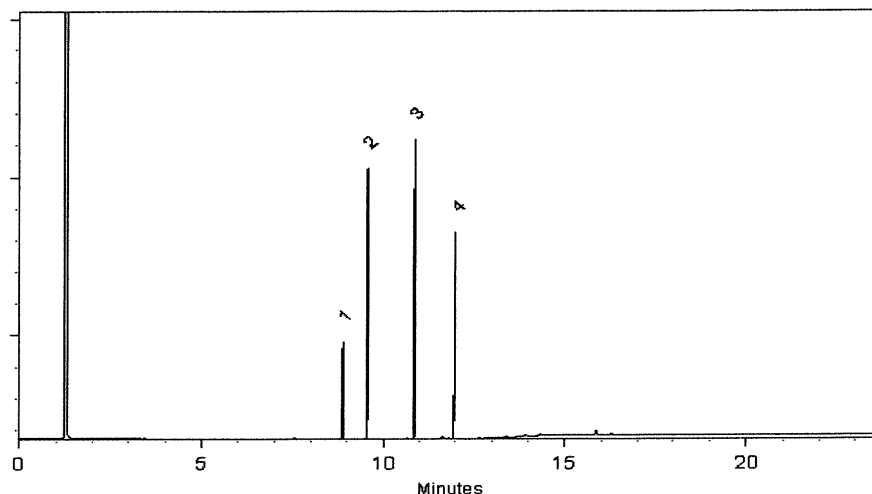
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022

Balance: B345965662

Marlene Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
02/08/23

b1
CG

S 11071
to
S 11075

Catalog No. : 31853 Lot No.: A0187043
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2027 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,4-Dioxane CAS # 123-91-1 Purity 99% (Lot SHBN5929)	2,019.0 µg/mL	+/- 11.8486 µg/mL Gravimetric +/- 43.2570 µg/mL Unstressed +/- 44.5129 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

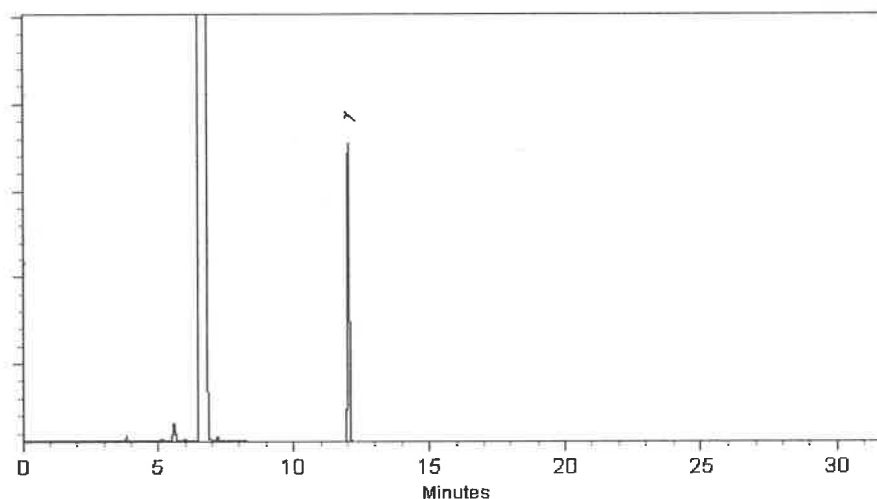
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** A0193449
Description : Custom Pentachlorophenol Standard
Custom Pentachlorophenol Standard 25,000µg/mL, Methanol,
1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : January 31, 2026 **Storage:** 10°C or colder
Ship: Ambient

Received on
01/13/23
by
CG
S11011
+0
S11015

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP221012	99%	25,050.0 µg/mL	+/- 778.6378

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Jan-2023

Balance: B442140311

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.



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %
COMMENTS		
QC: PhC Irma Belmares		

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3



Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	$\leq 0.005 \%$	$< 0.005 \%$	PASS
Chloride	$\leq 0.005 \%$	0.002 %	PASS
Heavy Metals	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Iron	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Magnesium	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Mercury	$\leq 0.1 \text{ ppm}$	$< 0.1 \text{ ppm}$	PASS
Nickel	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Nitrogen Compounds	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Phosphate	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Potassium	$\leq 0.02 \%$	$< 0.02 \%$	PASS
Purity	$\geq 97.0 \%$	99.2 %	PASS
Sodium Carbonate	$\leq 1.0 \%$	0.5 %	PASS
Sulfate	$\leq 0.003 \%$	$< 0.003 \%$	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

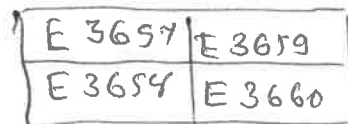
This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.6	< 0.1
Water (H ₂ O)	≤ 0.5 %	0.3 %
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: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

Avantor™

Material No.: 9266-A4
Batch No.: 24G2362009
Manufactured Date: 2024-06-10
Expiration Date: 2025-09-09
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 Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μ eq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24F10024

E 3791



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
Page 1 of 1

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24H2762011
Manufactured Date: 2024-06-05
Expiration Date: 2025-09-04
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	5
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	0.3 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3817

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

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantors



Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date: 2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) 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 10/9/24

E 3818

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)

avantor™



Material No.: 9266-A4

Batch No.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date: 2025-12-12

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date: 2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	2
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.5 ppm
Titration Acid (µeq/g)	<= 0.3	0.0
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3848


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

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis



Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.6
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	1
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.189
ACS – Bromide (Br)	<= 0.005 %	< 0.005
ACS – Extractable Organic Substances	<= 5 ppm	< 1
ACS – Free Chlorine (as Cl ₂)	<= 0.5 ppm	< 0.5
Phosphate (PO ₄)	<= 0.05 ppm	< 0.03
Sulfate (SO ₄)	<= 0.5 ppm	< 0.3
Sulfite (SO ₃)	<= 0.8 ppm	0.3
Ammonium (NH ₄)	<= 3 ppm	< 1
Trace Impurities – Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities – Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities – Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities – Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Test	Specification	Result
Trace Impurities – Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities – Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities – Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities – Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities – Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities – Selenium (Se), For Information Only	ppb	1.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities – Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities – Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities – Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities – Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use

Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



5580 Skyline Blvd
Santa Rosa, CA 95403
(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Page 1 of 1

Catalog No.: Lot No.:	Storage:	Solvent:	Exp. Date:	Rev	Description:
Z-110094-02 506889	≤ -10 °C	Methylene Chloride	7/25/2028	0	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.
↓ 08/11/2023
511498

*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.



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Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** 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:

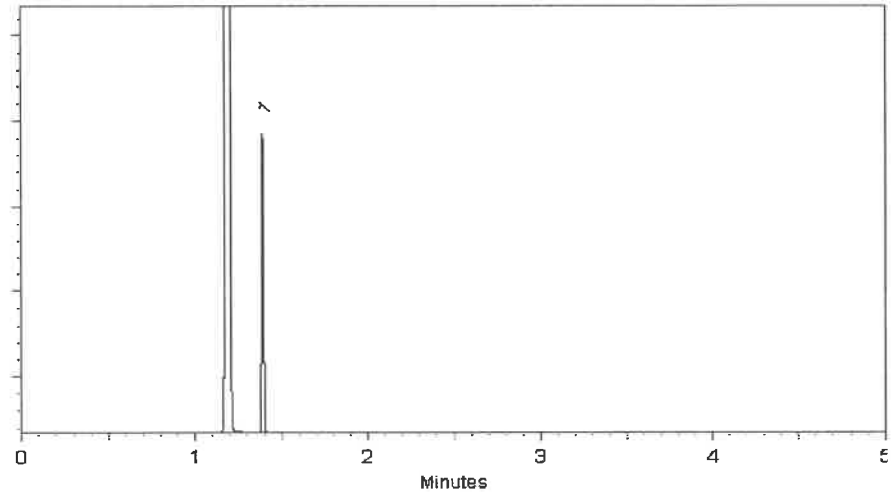
FID

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.

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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:

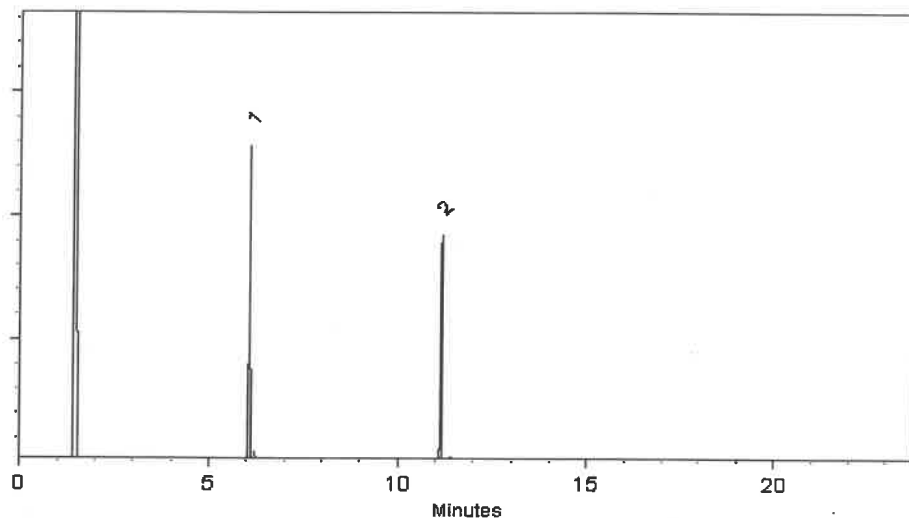
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

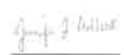


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.



5580 Skylane Blvd
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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

S12075 } RC
↓
S12079 } 02/01/24

*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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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-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

S12075 } RC
↓
S12079 } 02/01/24

*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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0207706

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 : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

512082 } RC/
↓
512111 } 02/22/24

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%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	1
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	2
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	3
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	4
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	5
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	6
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	7
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	8
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	9
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	10
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	11
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	12
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	13
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	14
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	15
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265	16
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422	17
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968	18
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998	
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634	
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221	
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240	
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553	
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251	
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220	
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674	
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979	
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130	
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857	
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220	
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958	
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230	
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553	

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	18
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265	
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422	
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968	
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998	
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634	
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221	
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240	
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553	
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251	
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220	
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674	
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979	
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130	
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857	
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220	
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958	
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230	
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553	

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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Bellefonte, PA 16823-8812
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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. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓ } 03/18/24
512206 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

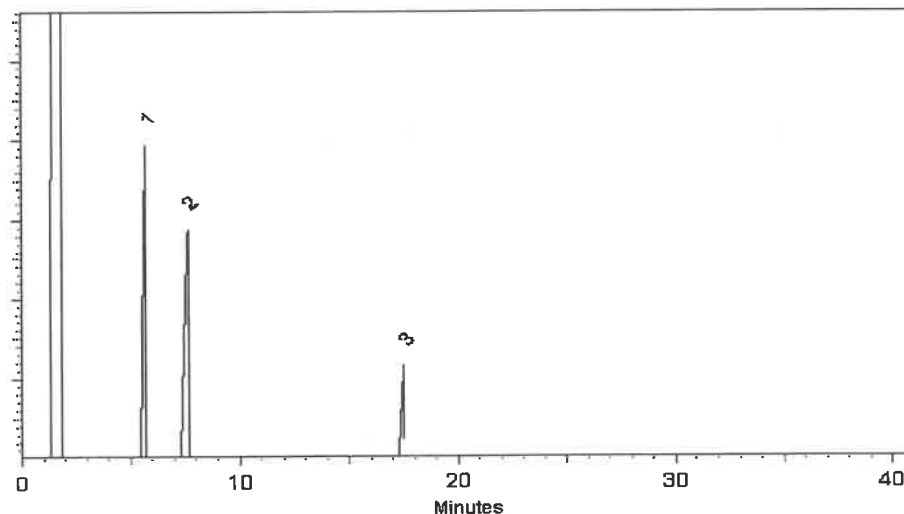
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope A. Riglin

Penelope Riglin - Operations Tech I

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
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Fax: 1-814-353-1309

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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

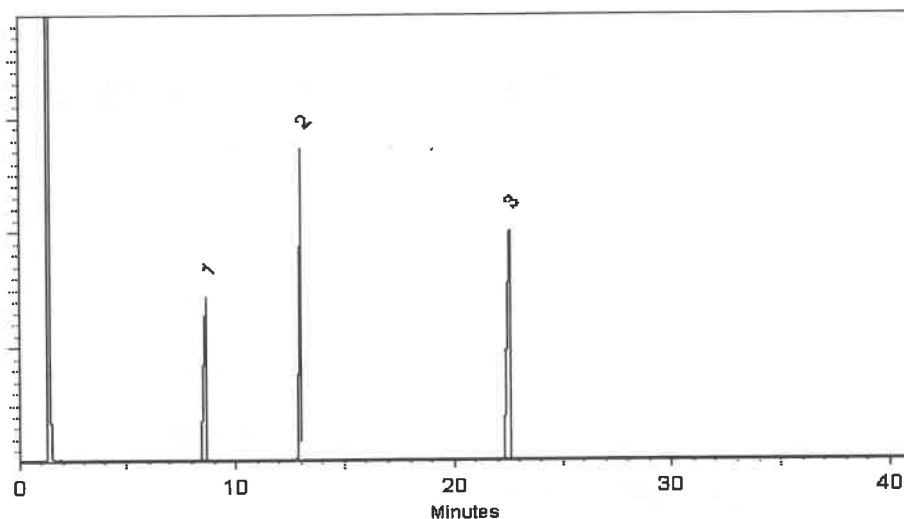
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

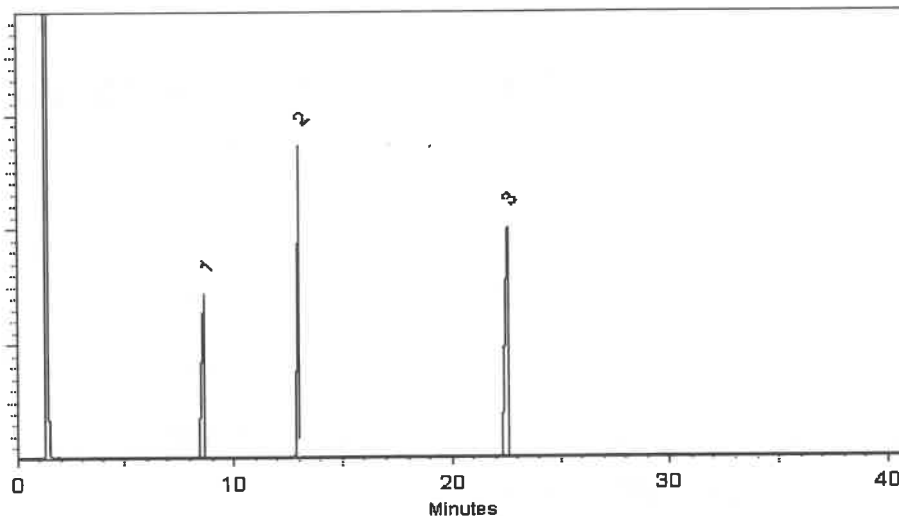
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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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:

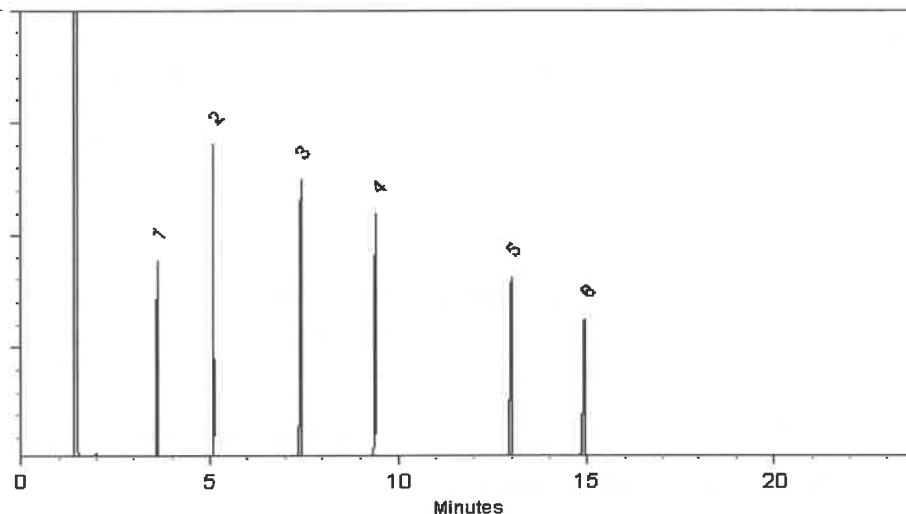
FID

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
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Certificate #FM 80397



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12312 } RC/
↓ 05/30/24
S12331

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

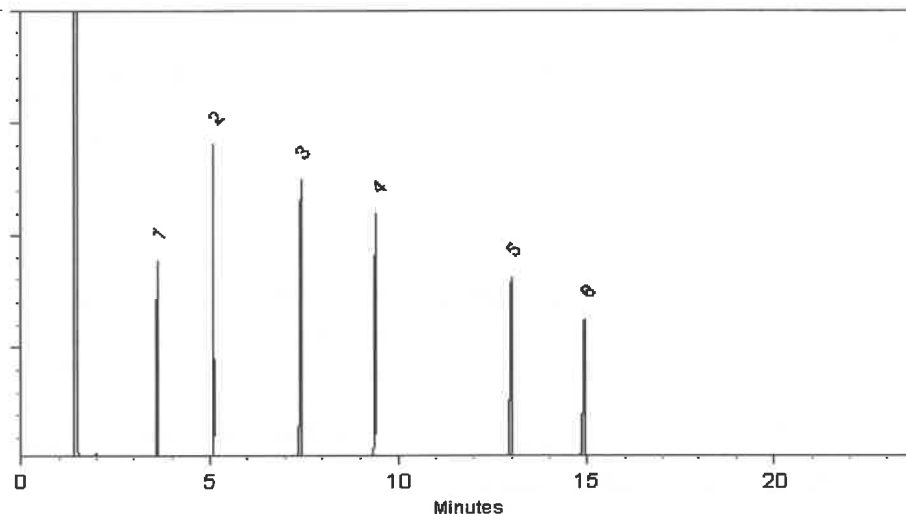
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan
Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905

Jennifer J. Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015
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gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



SHIPPING DOCUMENTS

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
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- 16
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- 18

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011025\
 Data File : BN035908.D
 Acq On : 10 Jan 2025 18:56
 Operator : RC/JU
 Sample : Q1040-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW5-SP303-20250108

Quant Time: Jan 10 21:47:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

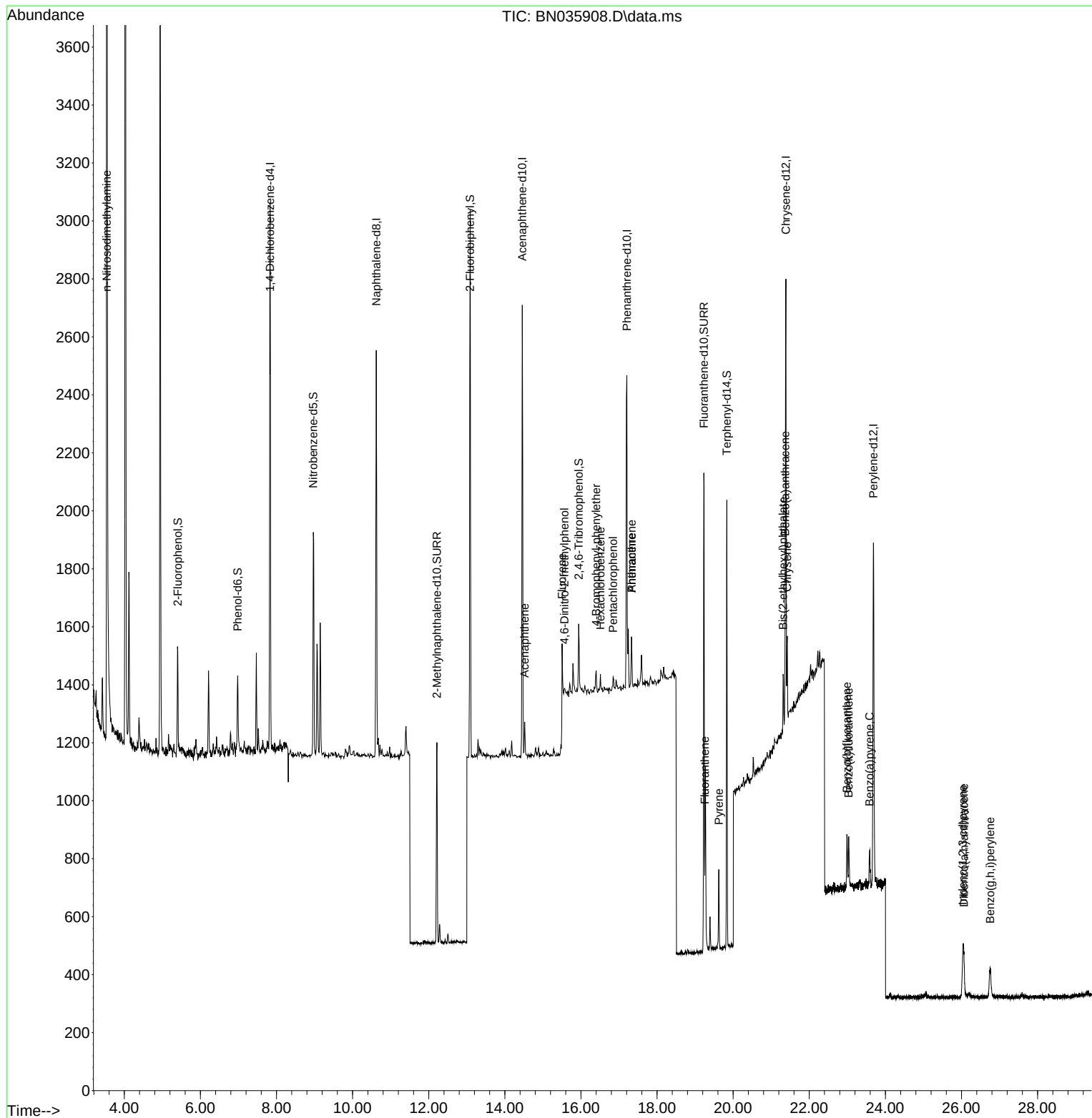
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.832	152	888	0.400	ng	0.00
7) Naphthalene-d8	10.622	136	1708	0.400	ng	0.00
13) Acenaphthene-d10	14.458	164	800	0.400	ng	0.00
19) Phenanthrene-d10	17.206	188	1628	0.400	ng	0.00
29) Chrysene-d12	21.385	240	1388	0.400	ng	0.00
35) Perylene-d12	23.686	264	1542	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.405	112	287	0.132	ng	0.00
5) Phenol-d6	6.980	99	198	0.073	ng	0.00
8) Nitrobenzene-d5	8.967	82	577	0.427	ng	-0.01
11) 2-Methylnaphthalene-d10	12.213	152	930	0.407	ng	0.00
14) 2,4,6-Tribromophenol	15.940	330	128	0.333	ng	-0.02
15) 2-Fluorobiphenyl	13.090	172	1520	0.433	ng	0.00
27) Fluoranthene-d10	19.230	212	1886	0.467	ng	0.00
31) Terphenyl-d14	19.833	244	1425	0.515	ng	0.00
Target Compounds						
3) n-Nitrosodimethylamine	3.542	42	1257	0.817	ng	# 1
17) Acenaphthene	14.522	154	56	0.023	ng	92
18) Fluorene	15.506	166	75	0.028	ng	# 96
20) 4,6-Dinitro-2-methylph...	15.568	198	7	0.025	ng	# 15
21) 4-Bromophenyl-phenylether	16.399	248	28	0.025	ng	90
22) Hexachlorobenzene	16.511	284	38	0.025	ng	# 66
24) Pentachlorophenol	16.846	266	25	0.046	ng	# 72
25) Phenanthrene	17.330	178	135	0.028	ng	97
26) Anthracene	17.330	178	141	0.033	ng	95
28) Fluoranthene	19.257	202	249	0.045	ng	# 3
30) Pyrene	19.624	202	242	0.043	ng	96
32) Benzo(a)anthracene	21.367	228	209	0.043	ng	# 75
33) Chrysene	21.420	228	246	0.048	ng	# 75
34) Bis(2-ethylhexyl)phtha...	21.313	149	221	0.111	ng	# 93
36) Indeno(1,2,3-cd)pyrene	26.037	276	241	0.040	ng	# 74
37) Benzo(b)fluoranthene	22.990	252	242	0.046	ng	# 31
38) Benzo(k)fluoranthene	23.034	252	205	0.039	ng	# 26
39) Benzo(a)pyrene	23.587	252	195	0.043	ng	# 22
40) Dibenzo(a,h)anthracene	26.063	278	210	0.043	ng	# 16
41) Benzo(g,h,i)perylene	26.753	276	214	0.040	ng	# 41

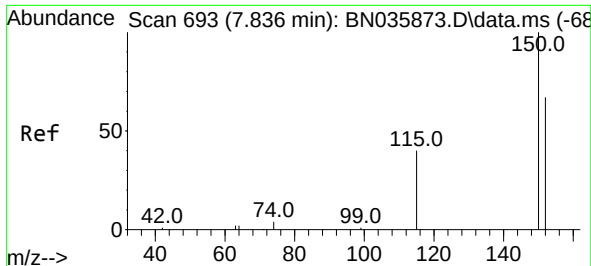
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011025\
Data File : BN035908.D
Acq On : 10 Jan 2025 18:56
Operator : RC/JU
Sample : Q1040-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

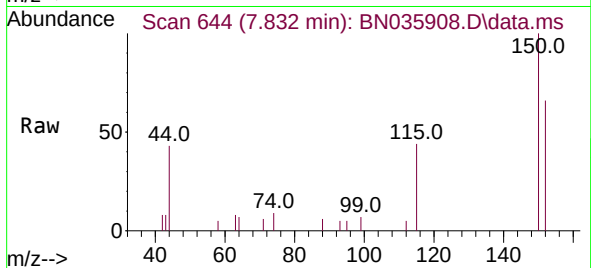
Quant Time: Jan 10 21:47:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration



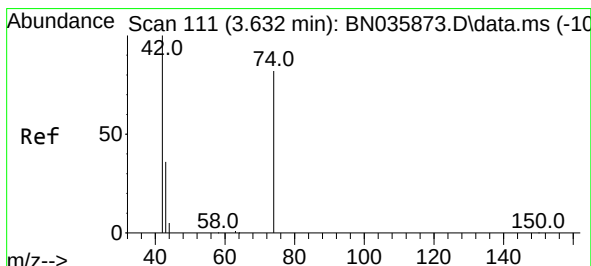
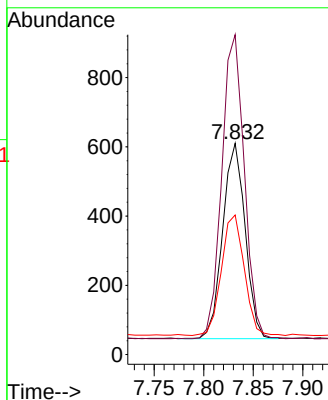
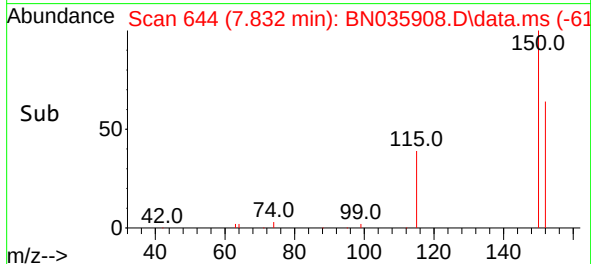


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.832 min Scan# 64
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

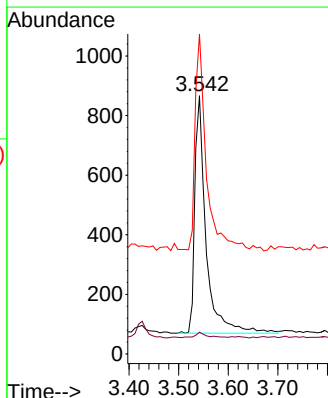
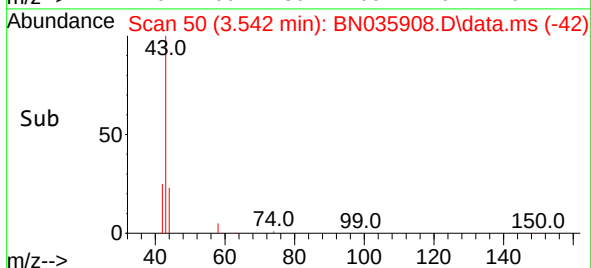
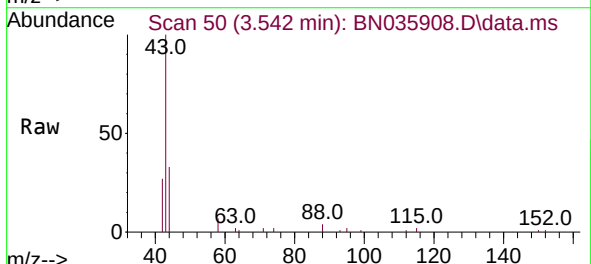


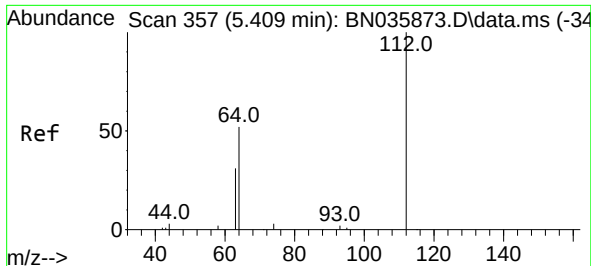
Tgt Ion:152 Resp: 888
Ion Ratio Lower Upper
152 100
150 151.5 117.8 176.6
115 66.1 51.0 76.4



#3
n-Nitrosodimethylamine
Concen: 0.817 ng
RT: 3.542 min Scan# 50
Delta R.T. -0.090 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Tgt Ion: 42 Resp: 1257
Ion Ratio Lower Upper
42 100
74 2.3 62.2 93.2#
44 87.7 7.1 10.7#

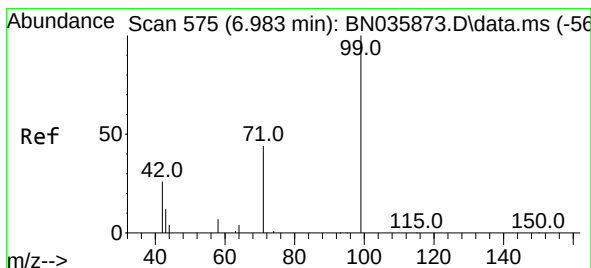
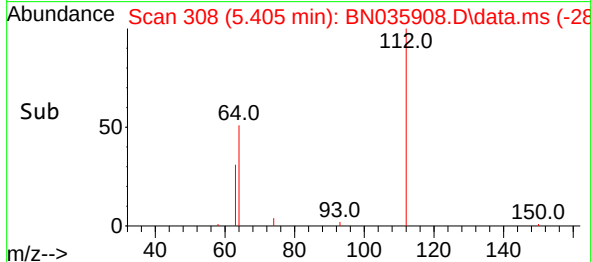
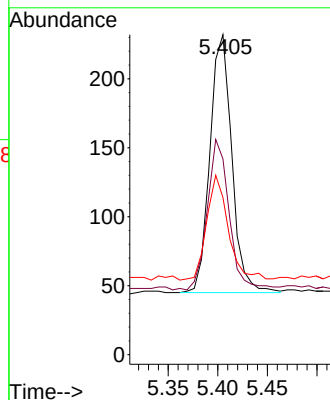
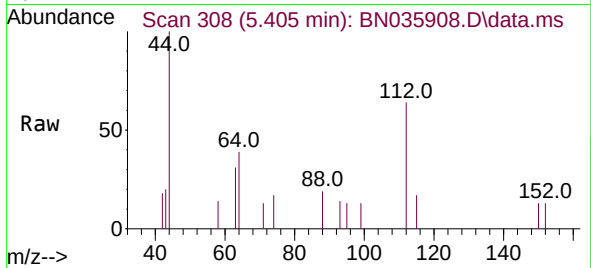




#4
2-Fluorophenol
Concen: 0.132 ng
RT: 5.405 min Scan# 308
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

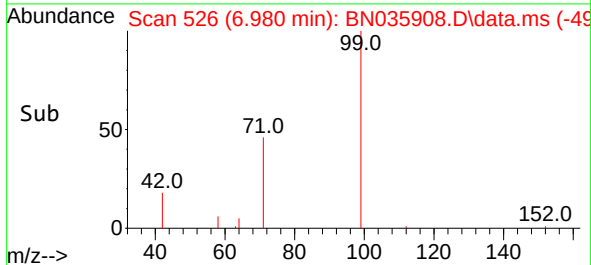
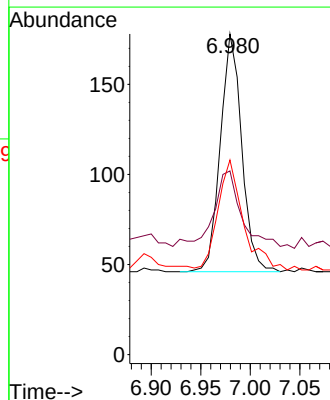
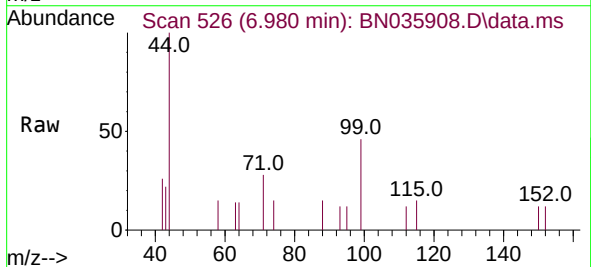
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

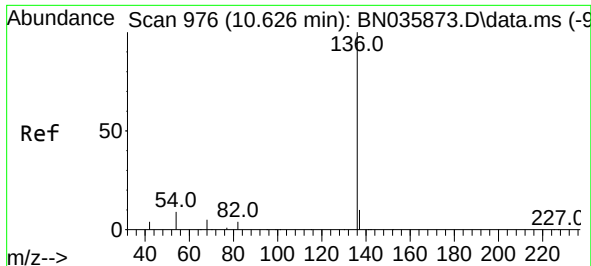
Tgt Ion:	112	Resp:	287
Ion	Ratio	Lower	Upper
112	100		
64	58.2	48.2	72.2
63	40.4	30.0	45.0



#5
Phenol-d6
Concen: 0.073 ng
RT: 6.980 min Scan# 526
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Tgt Ion:	99	Resp:	198
Ion	Ratio	Lower	Upper
99	100		
42	44.4	23.5	35.3#
71	55.1	35.5	53.3#

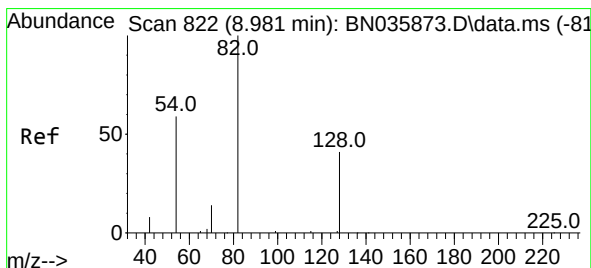
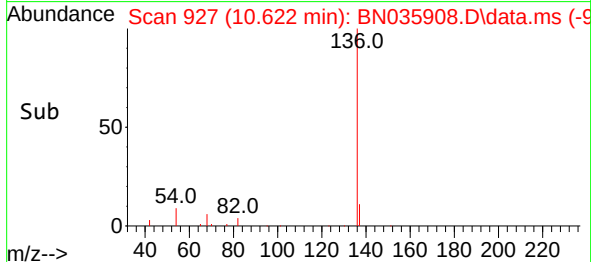
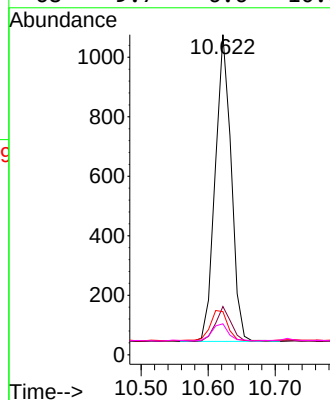
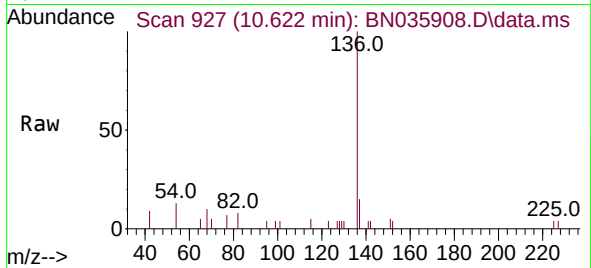




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.622 min Scan# 91
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

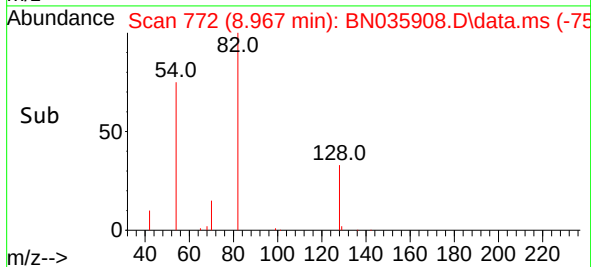
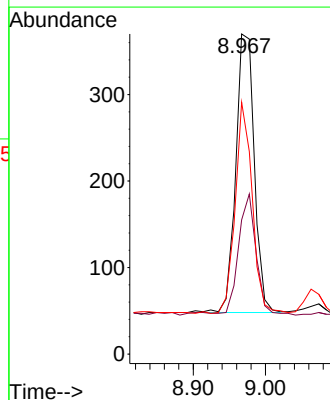
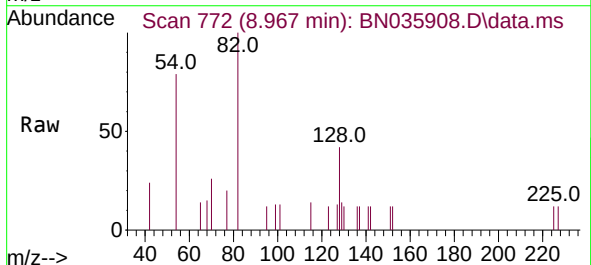
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

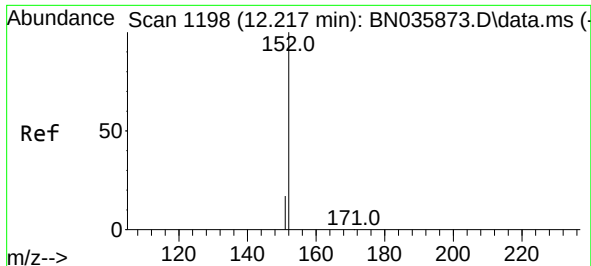
Tgt Ion:	136	Resp:	1708
Ion	Ratio	Lower	Upper
136	100		
137	15.1	10.6	15.8
54	13.5	9.8	14.6
68	9.7	6.6	10.0



#8
Nitrobenzene-d5
Concen: 0.427 ng
RT: 8.967 min Scan# 772
Delta R.T. -0.014 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Tgt Ion:	82	Resp:	577
Ion	Ratio	Lower	Upper
82	100		
128	41.9	36.9	55.3
54	78.6	50.4	75.6

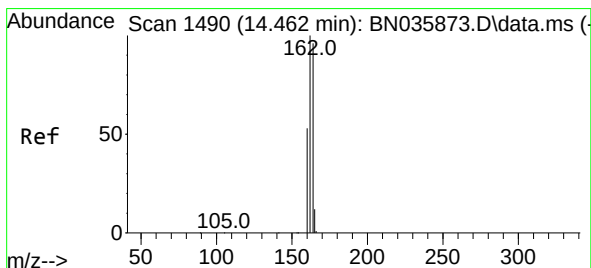
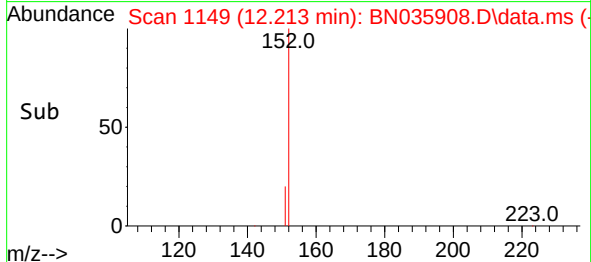
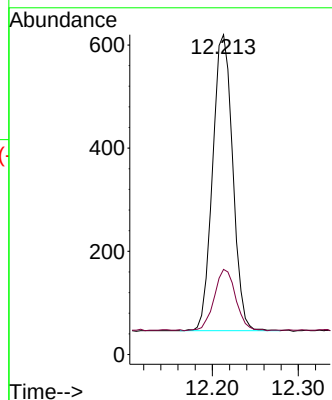
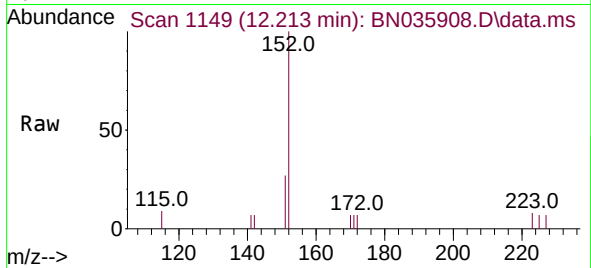




#11
2-Methylnaphthalene-d10
Concen: 0.407 ng
RT: 12.213 min Scan# 1198
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

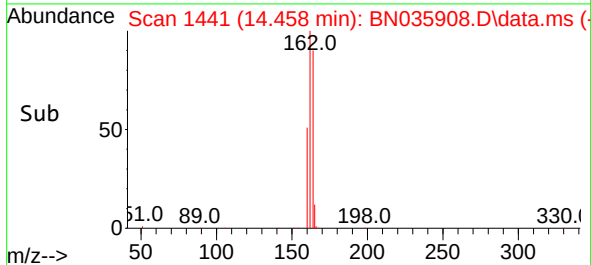
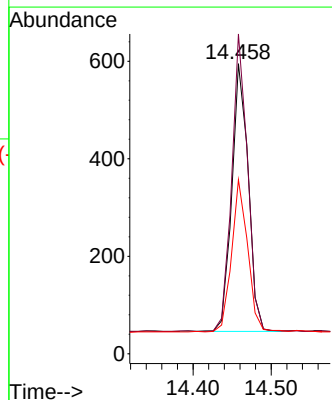
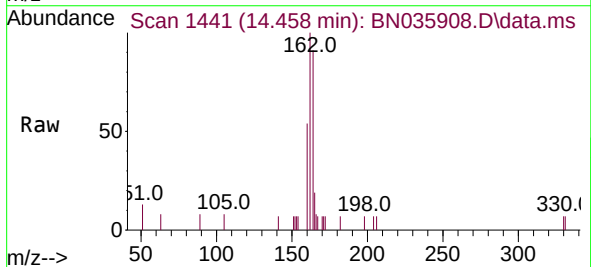
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

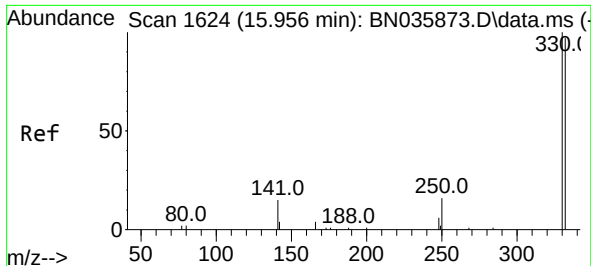
Tgt Ion:152 Resp: 930
Ion Ratio Lower Upper
152 100
151 22.4 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.458 min Scan# 1441
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

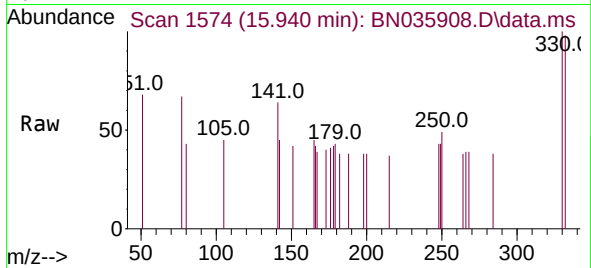
Tgt Ion:164 Resp: 800
Ion Ratio Lower Upper
164 100
162 110.3 83.1 124.7
160 60.0 46.0 69.0



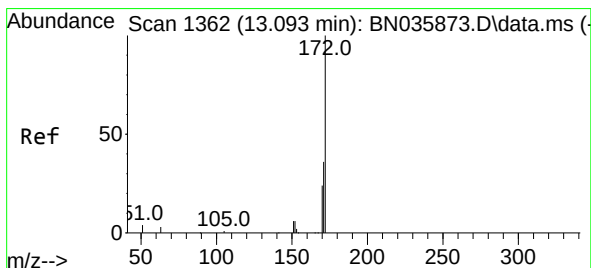
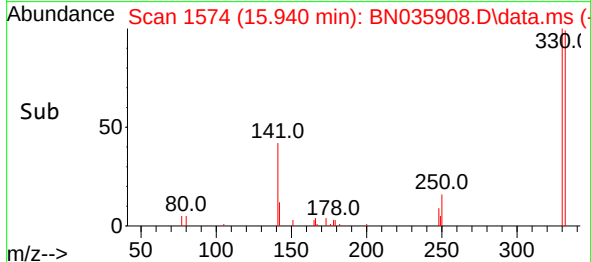
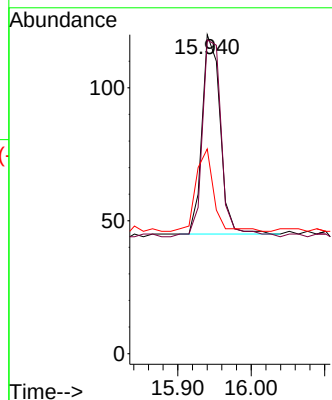


#14
2,4,6-Tribromophenol
Concen: 0.333 ng
RT: 15.940 min Scan# 11
Delta R.T. -0.016 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

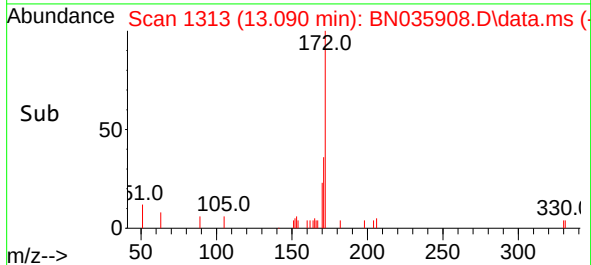
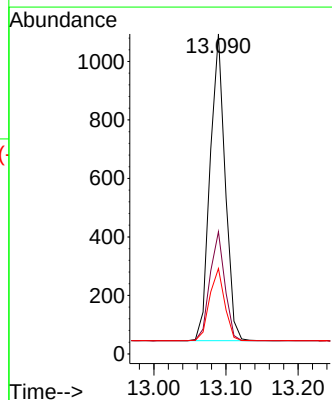
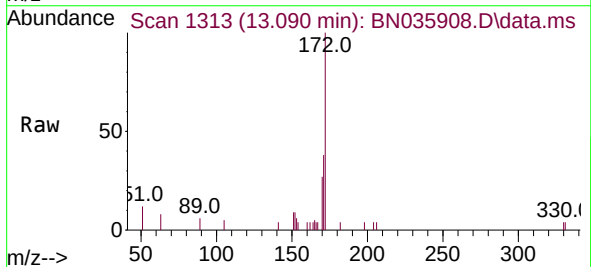


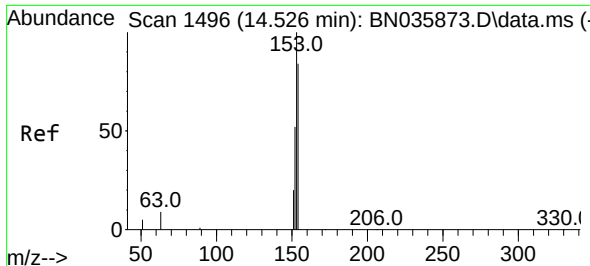
Tgt Ion:330 Resp: 128
Ion Ratio Lower Upper
330 100
332 104.7 77.2 115.8
141 40.6 31.6 47.4



#15
2-Fluorobiphenyl
Concen: 0.433 ng
RT: 13.090 min Scan# 1313
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

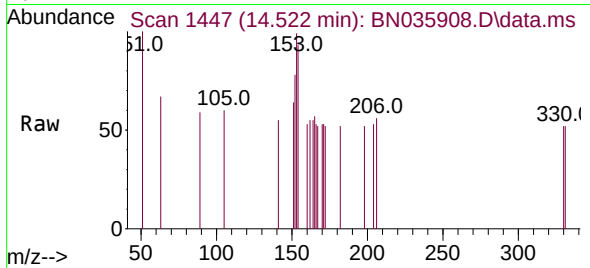
Tgt Ion:172 Resp: 1520
Ion Ratio Lower Upper
172 100
171 38.2 30.5 45.7
170 26.7 20.8 31.2



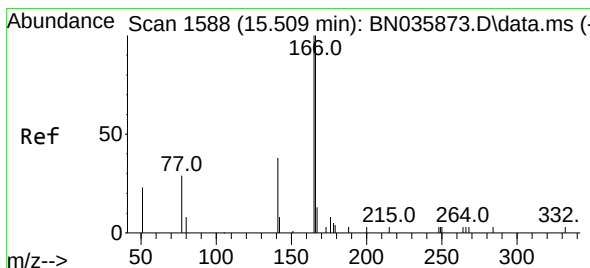
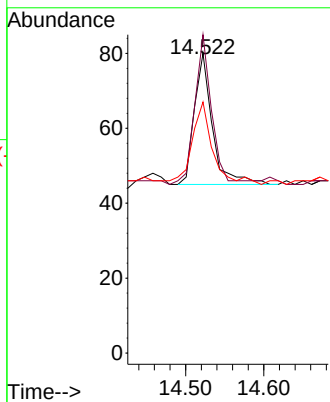
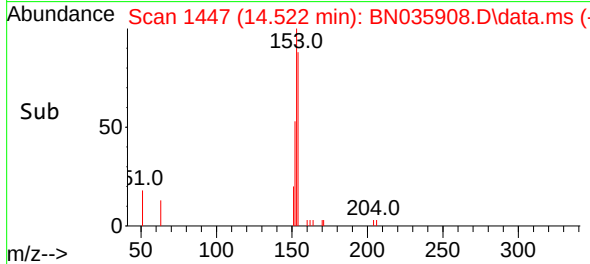


#17
Acenaphthene
Concen: 0.023 ng
RT: 14.522 min Scan# 1447
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

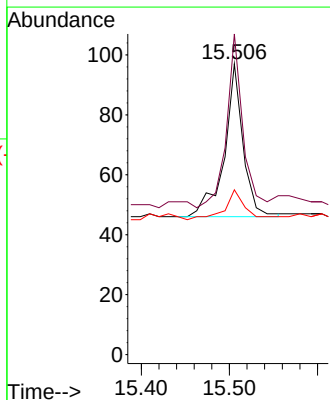
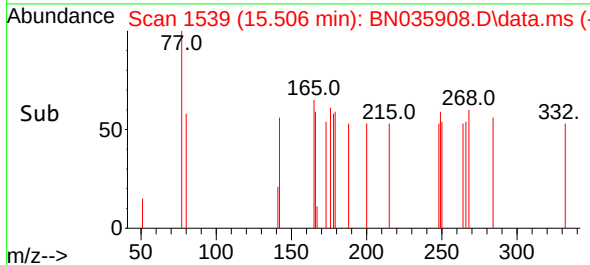
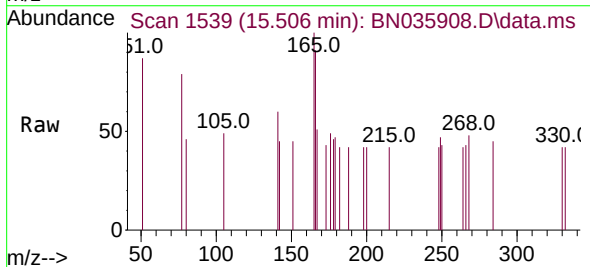


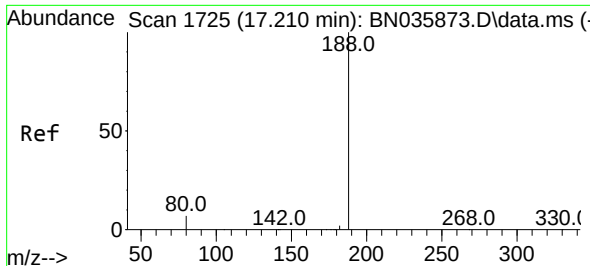
Tgt Ion:	154	Resp:	56
Ion	Ratio	Lower	Upper
154	100		
153	107.1	90.5	135.7
152	71.4	48.6	73.0



#18
Fluorene
Concen: 0.028 ng
RT: 15.506 min Scan# 1539
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Tgt Ion:	166	Resp:	75
Ion	Ratio	Lower	Upper
166	100		
165	98.7	80.6	120.8
167	21.3	11.4	17.0

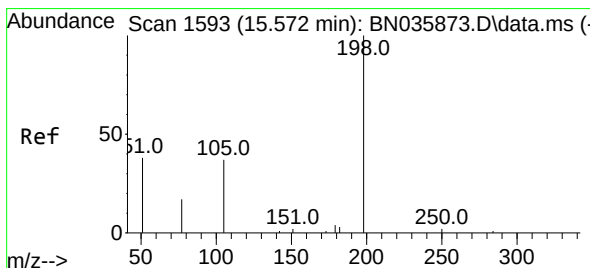
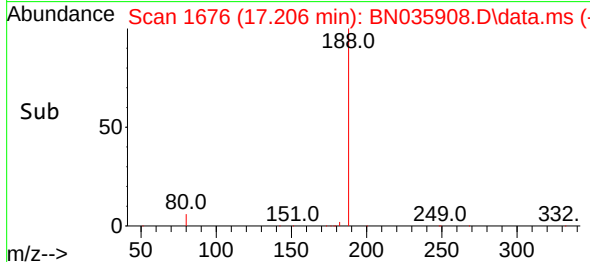
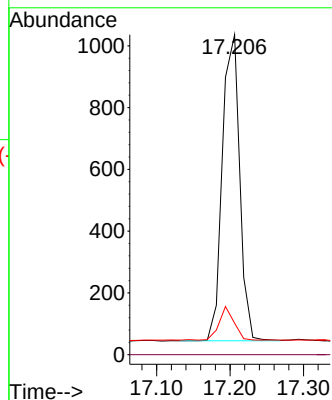
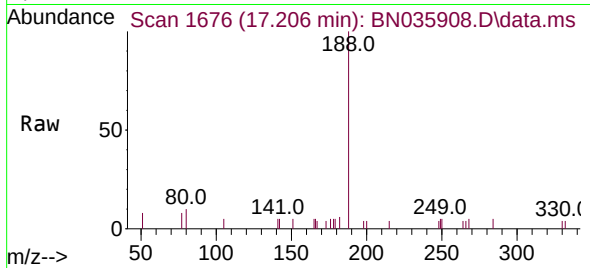




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.206 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

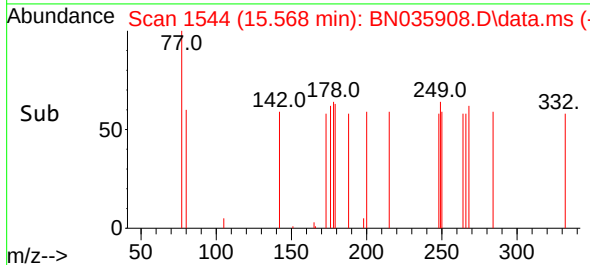
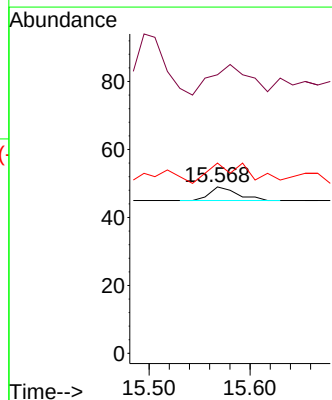
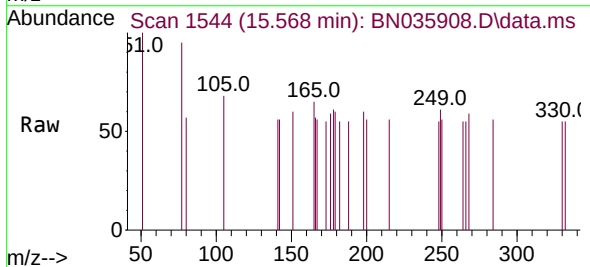
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

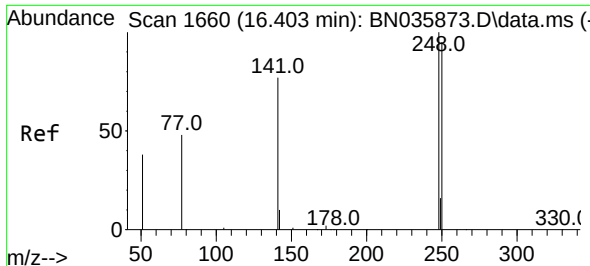
Tgt Ion:188 Resp: 1628
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.8 7.3 10.9



#20
4,6-Dinitro-2-methylphenol
Concen: 0.025 ng
RT: 15.568 min Scan# 1544
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Tgt Ion:198 Resp: 7
Ion Ratio Lower Upper
198 100
51 167.3 64.3 96.5#
105 114.3 50.0 75.0#

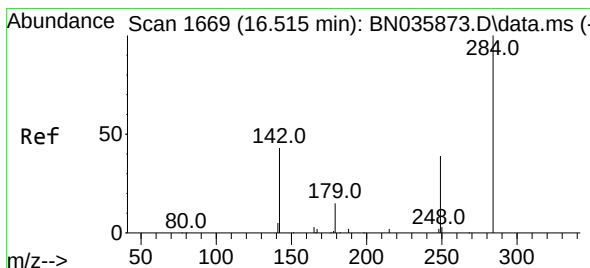
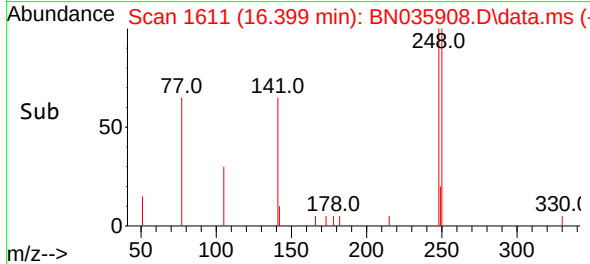
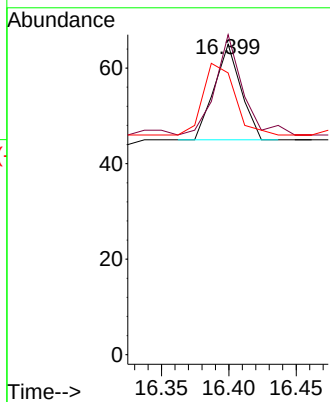
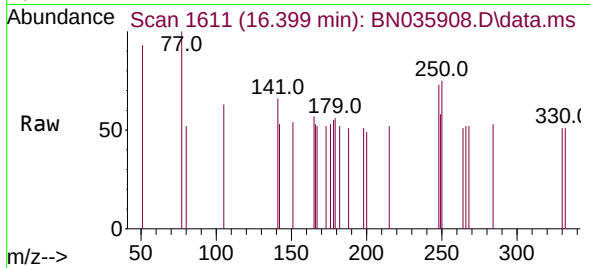




#21
4-Bromophenyl-phenylether
Concen: 0.025 ng
RT: 16.399 min Scan# 1620
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

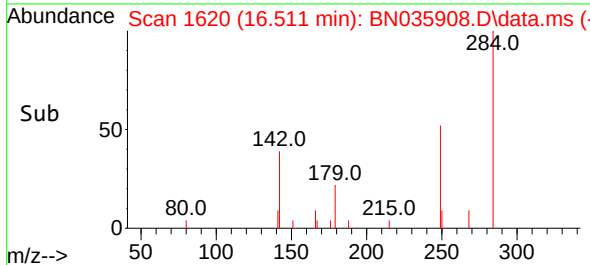
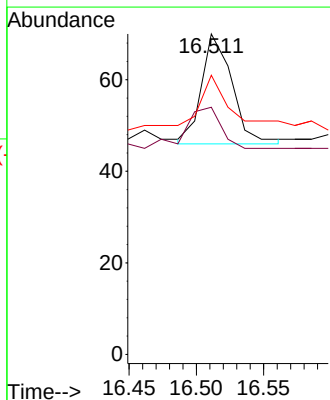
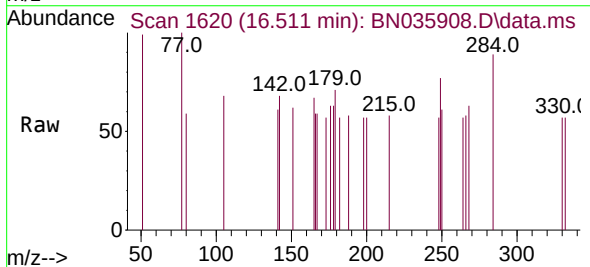
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

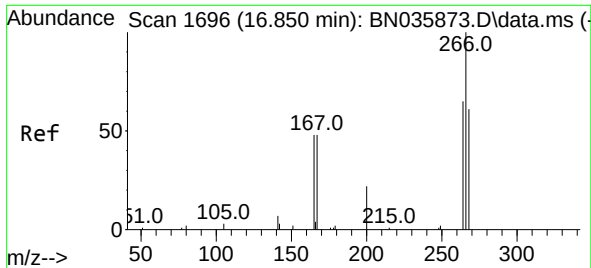
Tgt Ion:248 Resp: 28
Ion Ratio Lower Upper
248 100
250 103.1 76.8 115.2
141 90.8 63.6 95.4



#22
Hexachlorobenzene
Concen: 0.025 ng
RT: 16.511 min Scan# 1620
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Tgt Ion:284 Resp: 38
Ion Ratio Lower Upper
284 100
142 42.1 31.4 47.0
249 73.7 27.8 41.8#

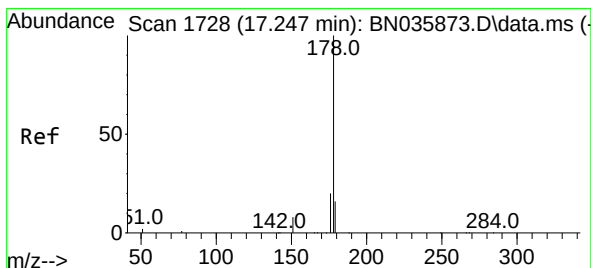
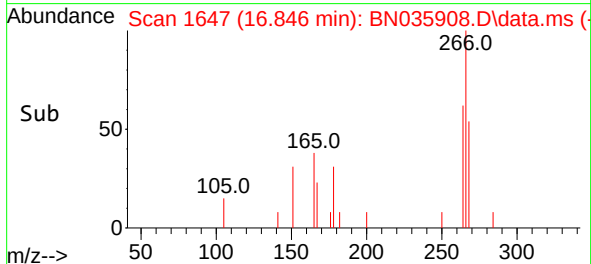
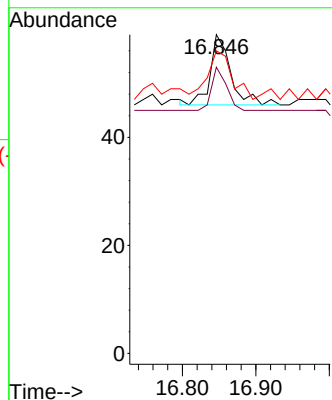
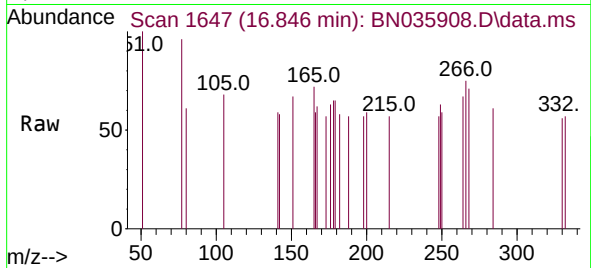




#24
Pentachlorophenol
Concen: 0.046 ng
RT: 16.846 min Scan# 1647
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

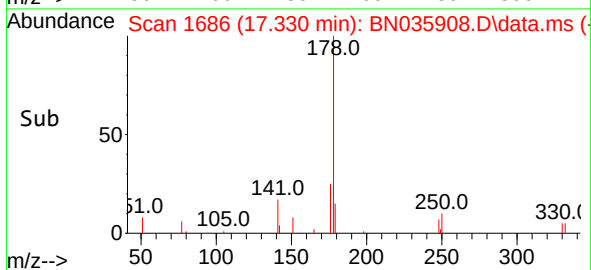
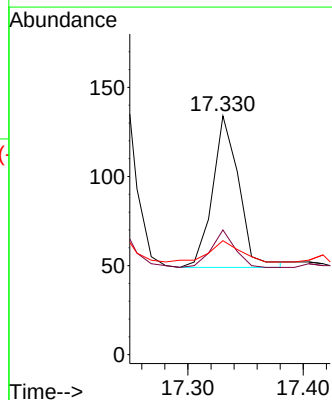
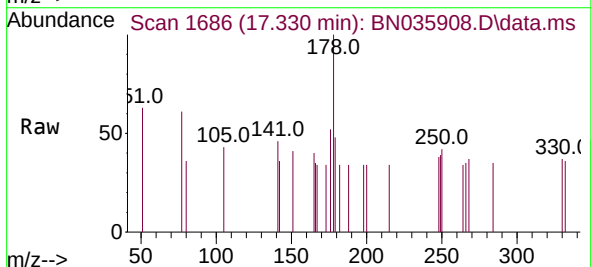
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

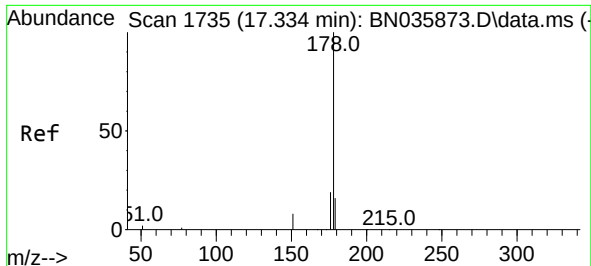
Tgt Ion:266 Resp: 25
Ion Ratio Lower Upper
266 100
264 44.0 49.9 74.9#
268 88.0 50.2 75.2#



#25
Phenanthrene
Concen: 0.028 ng
RT: 17.330 min Scan# 1686
Delta R.T. 0.083 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Tgt Ion:178 Resp: 135
Ion Ratio Lower Upper
178 100
176 22.2 15.9 23.9
179 16.3 12.9 19.3

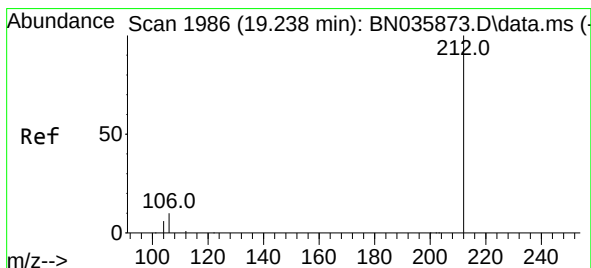
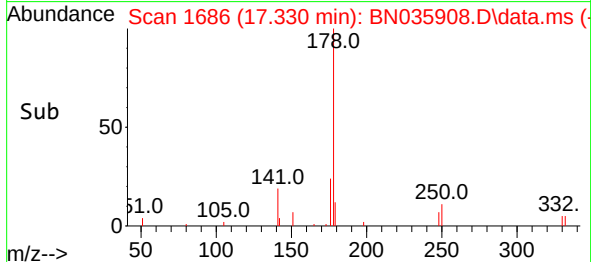
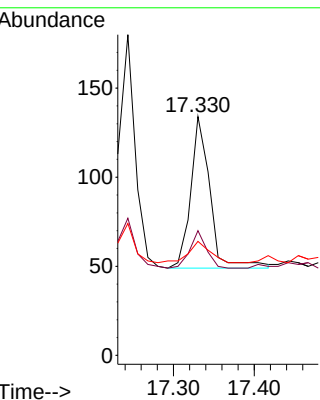
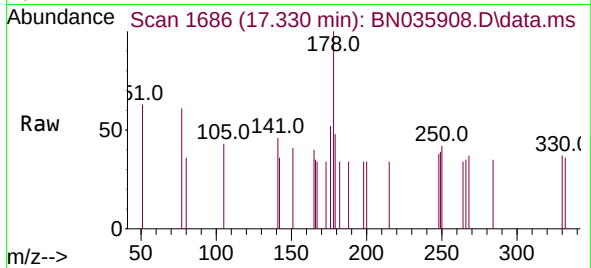




#26
Anthracene
Concen: 0.033 ng
RT: 17.330 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

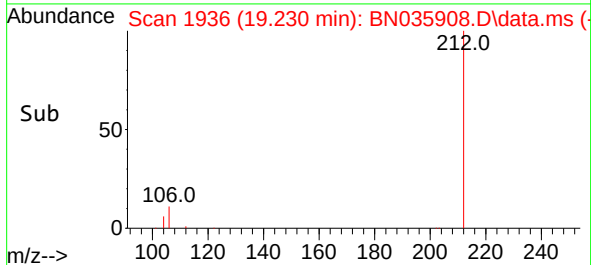
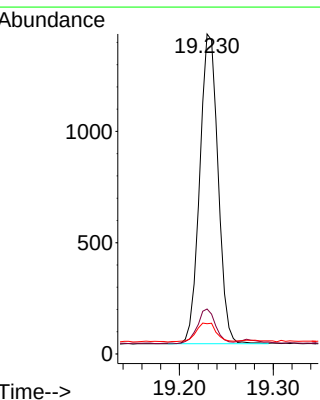
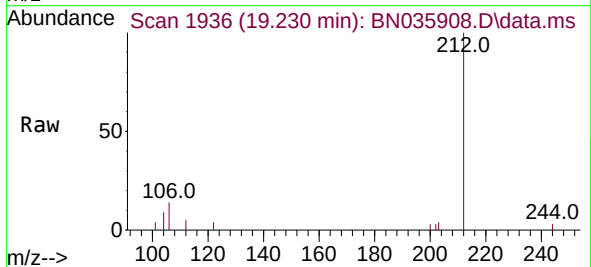
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

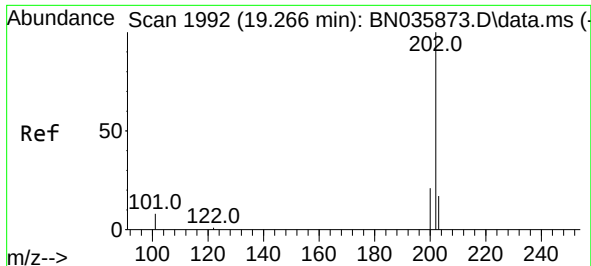
Tgt Ion:	178	Resp:	141
Ion	Ratio	Lower	Upper
178	100		
176	21.3	15.0	22.6
179	17.7	13.0	19.6



#27
Fluoranthene-d10
Concen: 0.467 ng
RT: 19.230 min Scan# 1936
Delta R.T. -0.008 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Tgt Ion:	212	Resp:	1886
Ion	Ratio	Lower	Upper
212	100		
106	11.1	9.0	13.6
104	6.8	5.4	8.2

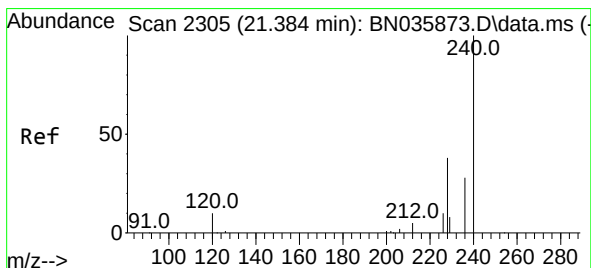
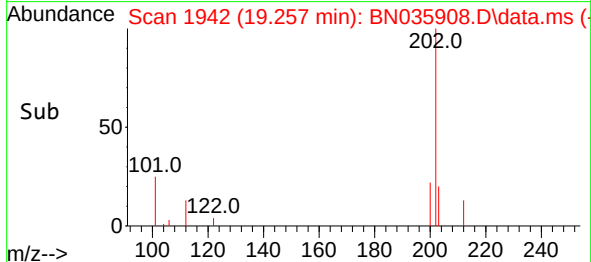
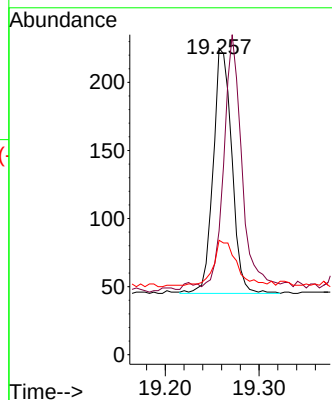
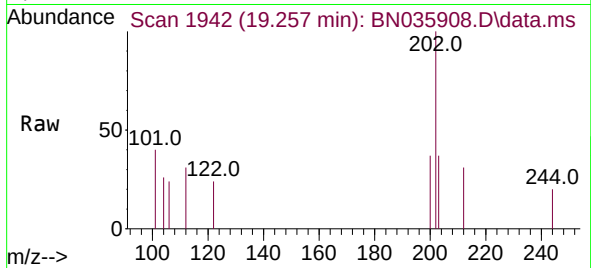




#28
Fluoranthene
Concen: 0.045 ng
RT: 19.257 min Scan# 1992
Delta R.T. -0.008 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

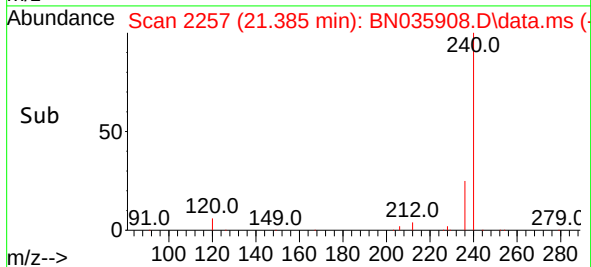
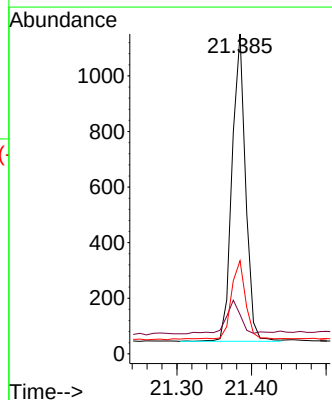
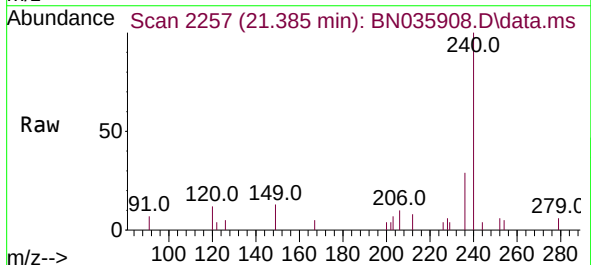
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

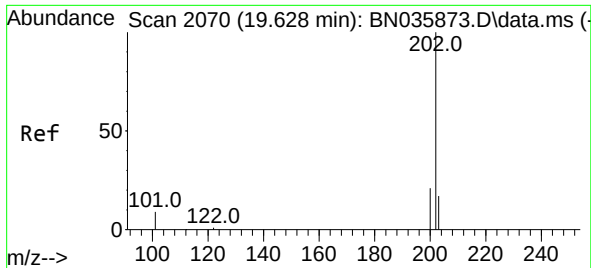
Tgt Ion:202 Resp: 249
Ion Ratio Lower Upper
202 100
101 97.6 7.2 10.8#
203 26.1 13.9 20.9#



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.385 min Scan# 2257
Delta R.T. 0.001 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Tgt Ion:240 Resp: 1388
Ion Ratio Lower Upper
240 100
120 12.3 11.1 16.7
236 29.1 24.6 36.8

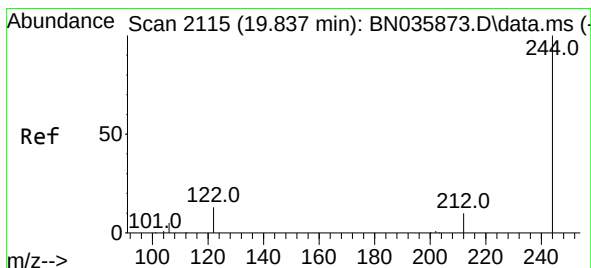
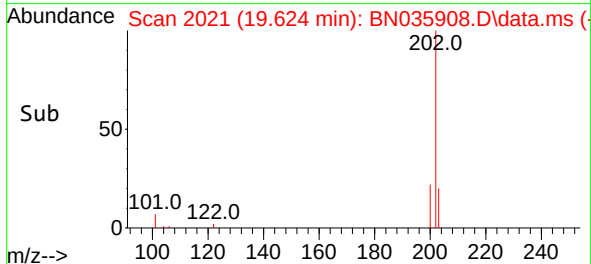
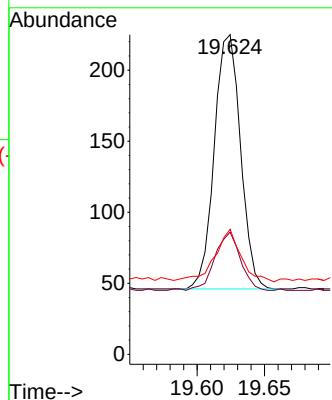
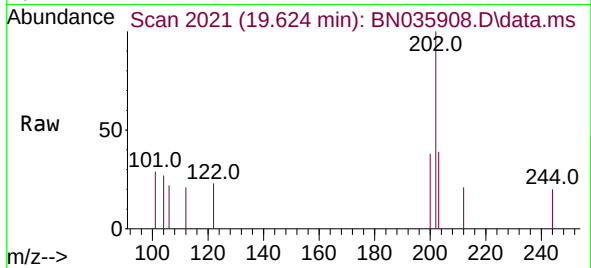




#30
Pyrene
Concen: 0.043 ng
RT: 19.624 min Scan# 2066
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

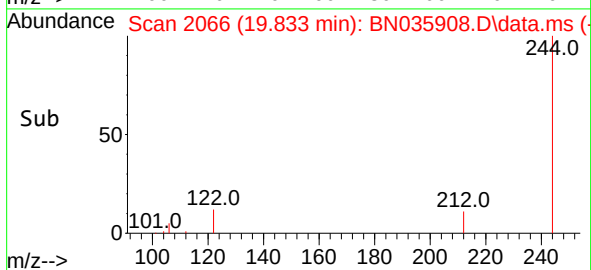
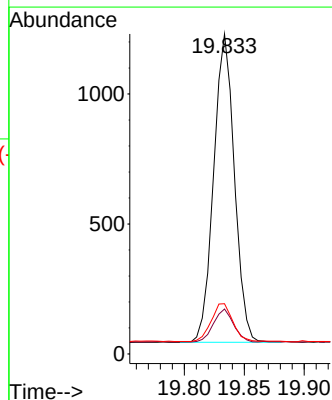
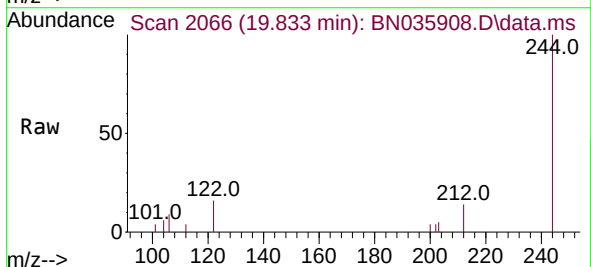
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

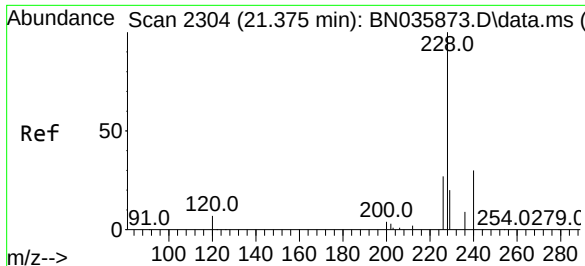
Tgt Ion:	202	Resp:	242
Ion	Ratio	Lower	Upper
202	100		
200	22.3	17.0	25.6
203	20.7	14.6	22.0



#31
Terphenyl-d14
Concen: 0.515 ng
RT: 19.833 min Scan# 2066
Delta R.T. -0.004 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Tgt Ion:	244	Resp:	1425
Ion	Ratio	Lower	Upper
244	100		
212	14.1	10.1	15.1
122	15.7	12.2	18.4

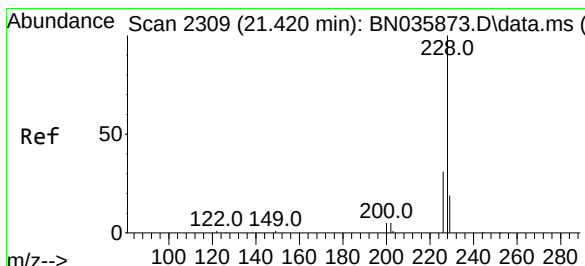
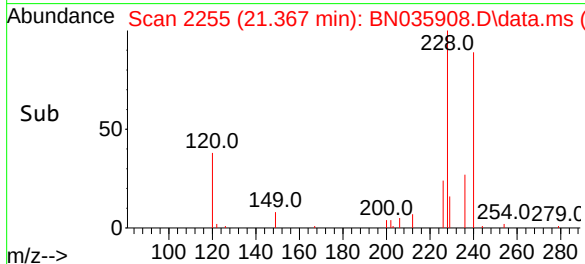
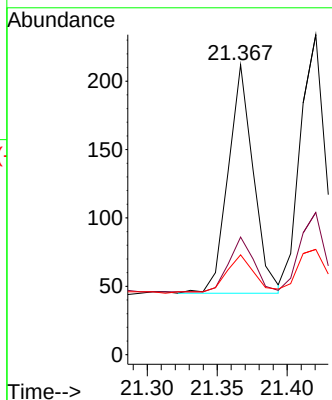
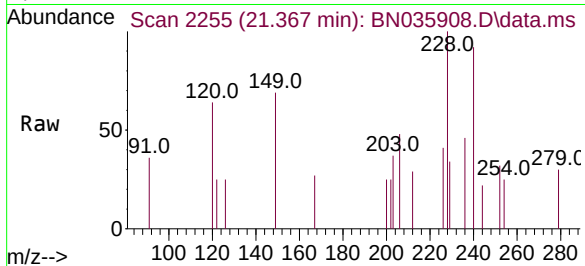




#32
Benzo(a)anthracene
Concen: 0.043 ng
RT: 21.367 min Scan# 21
Delta R.T. -0.008 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

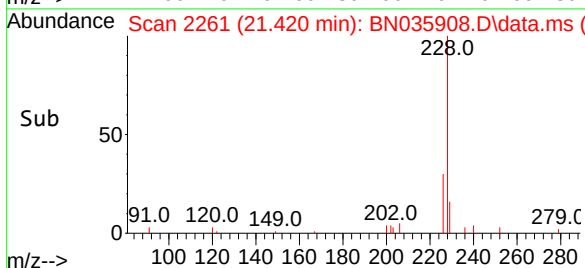
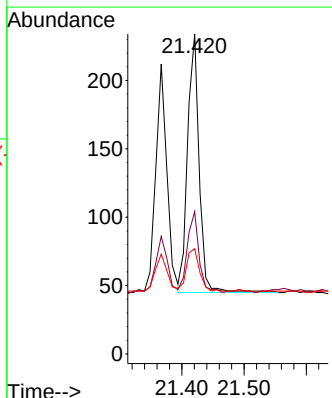
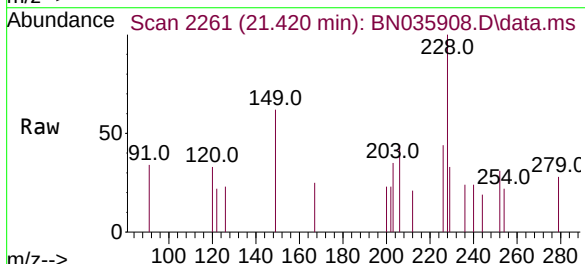
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

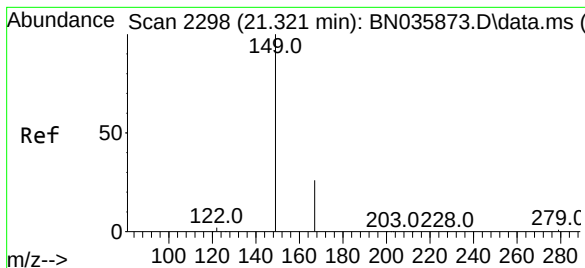
Tgt Ion:228 Resp: 209
Ion Ratio Lower Upper
228 100
226 40.6 22.7 34.1#
229 34.4 17.1 25.7#



#33
Chrysene
Concen: 0.048 ng
RT: 21.420 min Scan# 2261
Delta R.T. 0.001 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Tgt Ion:228 Resp: 246
Ion Ratio Lower Upper
228 100
226 44.4 25.2 37.8#
229 32.9 16.0 24.0#

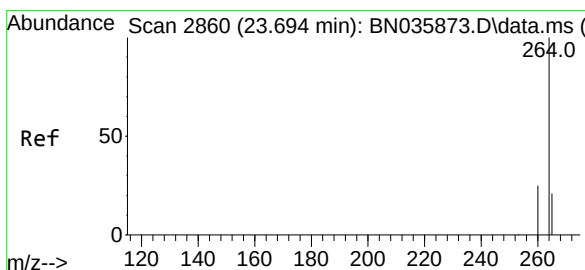
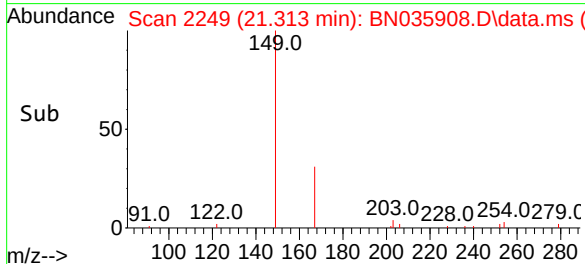
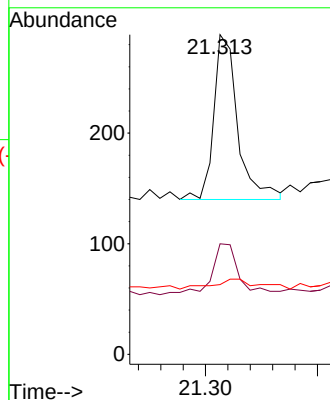
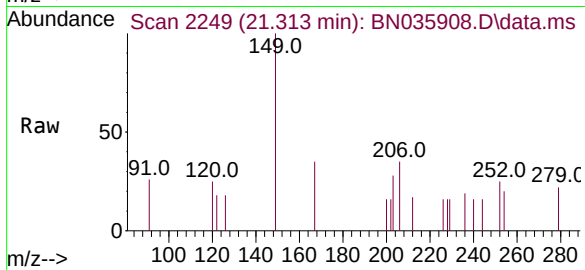




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.111 ng
RT: 21.313 min Scan# 211
Delta R.T. -0.008 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

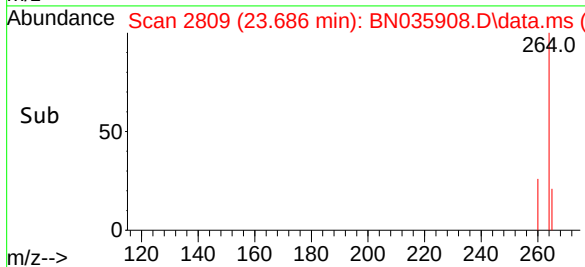
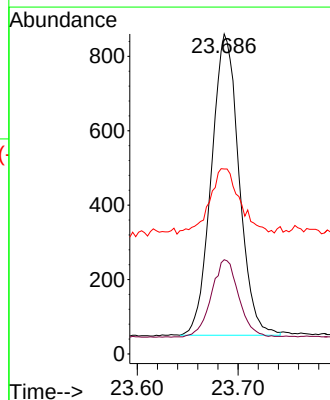
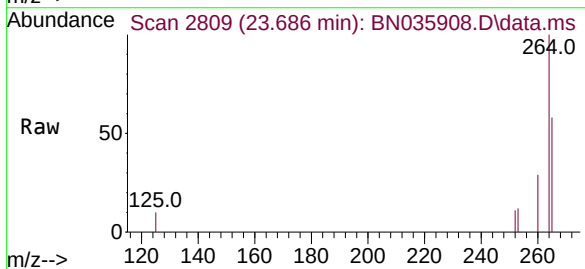
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

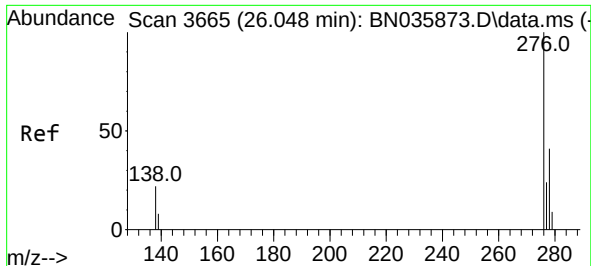
Tgt Ion:149 Resp: 221
Ion Ratio Lower Upper
149 100
167 29.4 21.4 32.0
279 11.3 3.0 4.6#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.686 min Scan# 2809
Delta R.T. -0.008 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Tgt Ion:264 Resp: 1542
Ion Ratio Lower Upper
264 100
260 29.4 21.7 32.5
265 57.8 33.9 50.9#

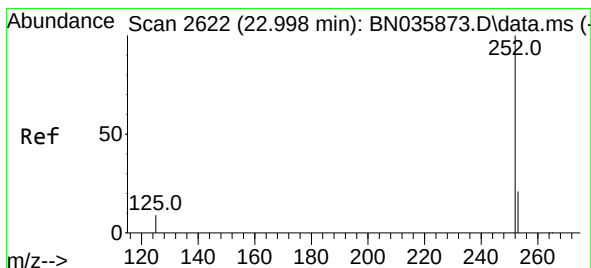
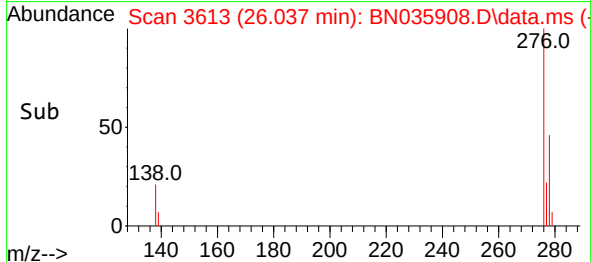
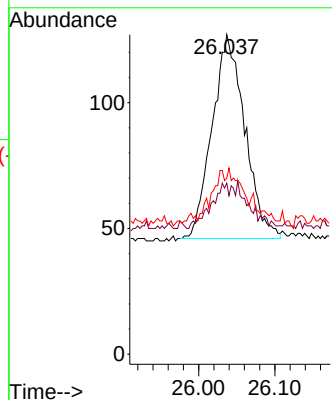
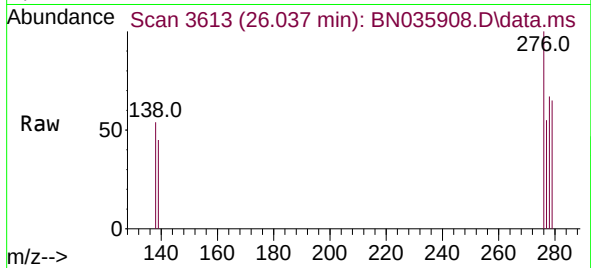




#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.040 ng
 RT: 26.037 min Scan# 30
 Delta R.T. -0.011 min
 Lab File: BN035908.D
 Acq: 10 Jan 2025 18:56

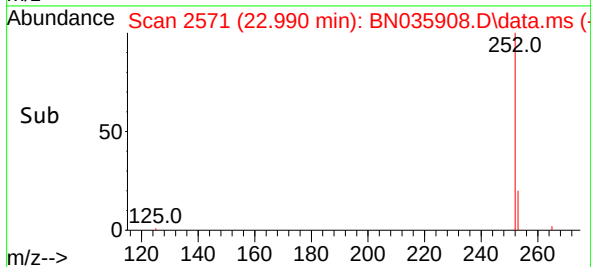
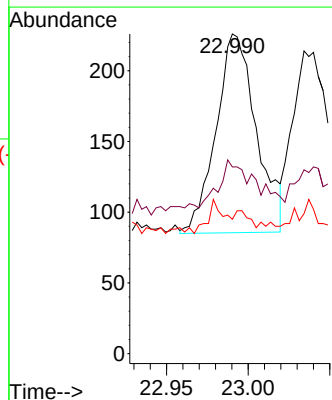
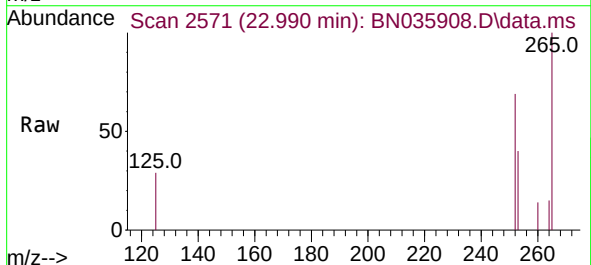
Instrument :
 BNA_N
 ClientSampleId :
 RW5-SP303-20250108

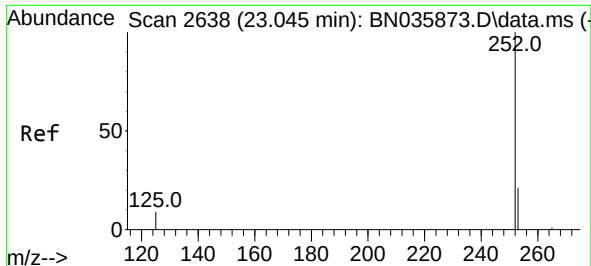
Tgt Ion:	276	Resp:	241
Ion	Ratio	Lower	Upper
276	100		
138	12.0	18.9	28.3#
277	10.0	19.5	29.3#



#37
 Benzo(b)fluoranthene
 Concen: 0.046 ng
 RT: 22.990 min Scan# 2571
 Delta R.T. -0.008 min
 Lab File: BN035908.D
 Acq: 10 Jan 2025 18:56

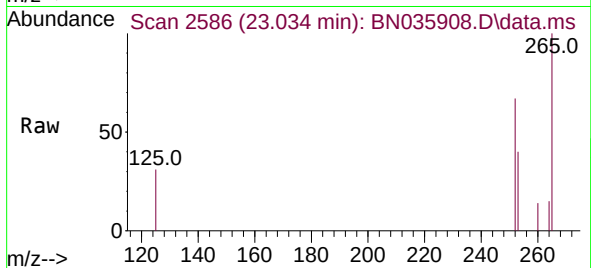
Tgt Ion:	252	Resp:	242
Ion	Ratio	Lower	Upper
252	100		
253	58.4	20.1	30.1#
125	42.0	9.9	14.9#



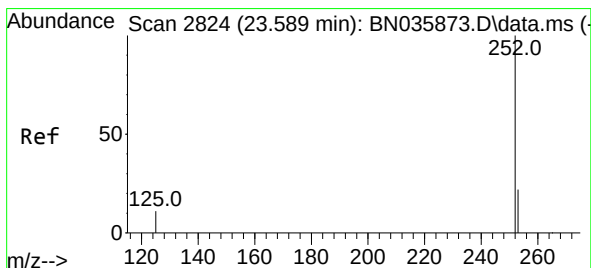
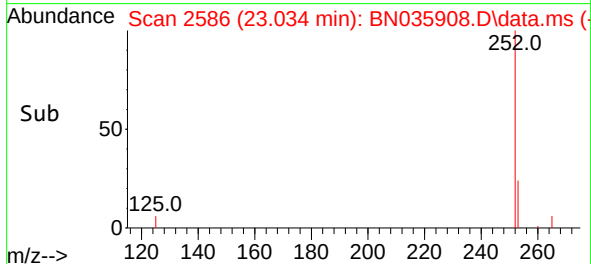
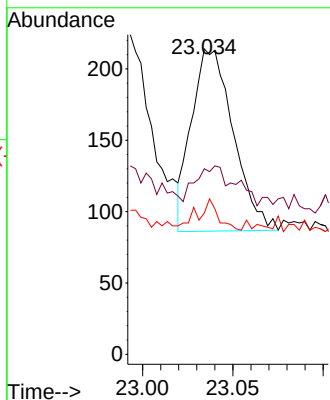


#38
Benzo(k)fluoranthene
Concen: 0.039 ng
RT: 23.034 min Scan# 21
Delta R.T. -0.011 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250108

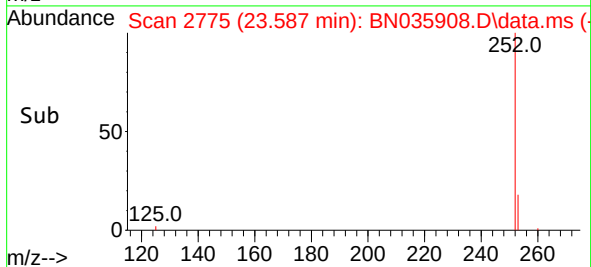
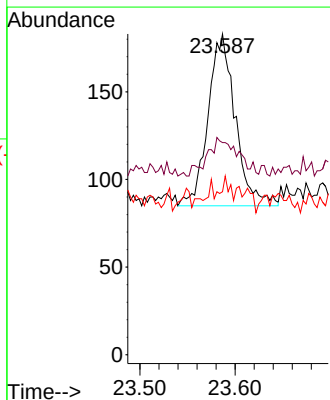
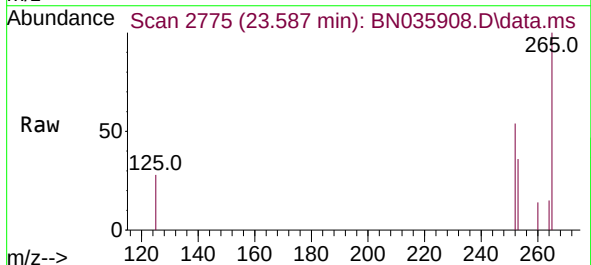


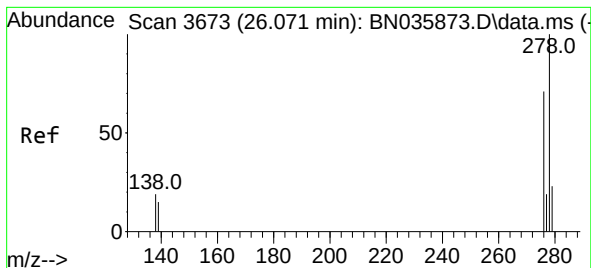
Tgt Ion:252 Resp: 205
Ion Ratio Lower Upper
252 100
253 60.7 20.5 30.7#
125 46.3 10.6 16.0#



#39
Benzo(a)pyrene
Concen: 0.043 ng
RT: 23.587 min Scan# 2775
Delta R.T. -0.002 min
Lab File: BN035908.D
Acq: 10 Jan 2025 18:56

Tgt Ion:252 Resp: 195
Ion Ratio Lower Upper
252 100
253 66.1 21.5 32.3#
125 50.8 12.6 19.0#





#40

Dibenzo(a,h)anthracene

Concen: 0.043 ng

RT: 26.063 min Scan# 3

Delta R.T. -0.008 min

Lab File: BN035908.D

Acq: 10 Jan 2025 18:56

Instrument :

BNA_N

ClientSampleId :

RW5-SP303-20250108

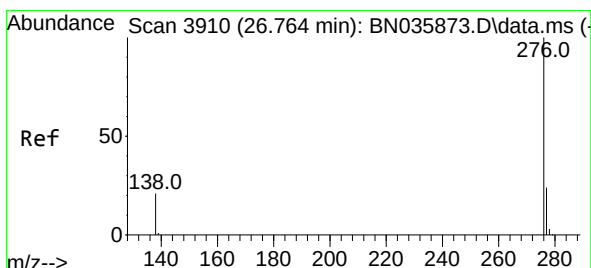
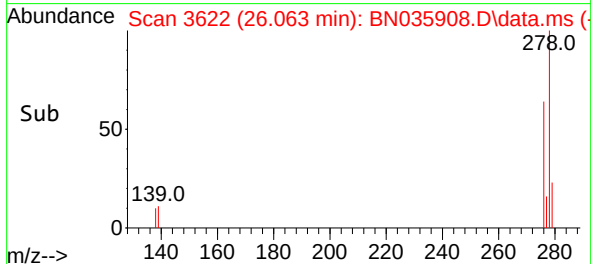
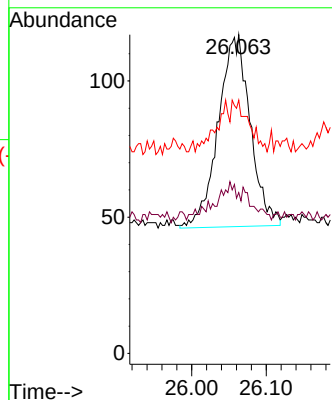
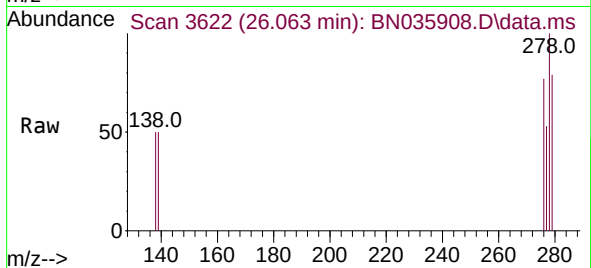
Tgt Ion:278 Resp: 210

Ion Ratio Lower Upper

278 100

139 50.4 15.9 23.9#

279 79.5 23.0 34.4#



#41

Benzo(g,h,i)perylene

Concen: 0.040 ng

RT: 26.753 min Scan# 3858

Delta R.T. -0.011 min

Lab File: BN035908.D

Acq: 10 Jan 2025 18:56

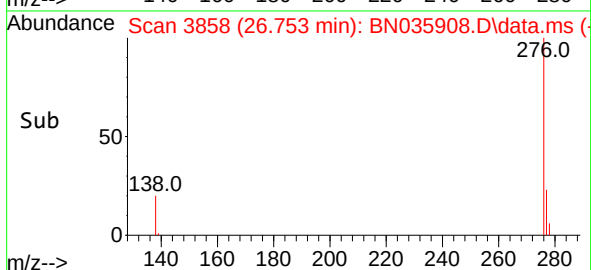
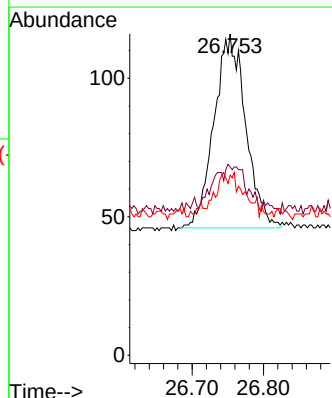
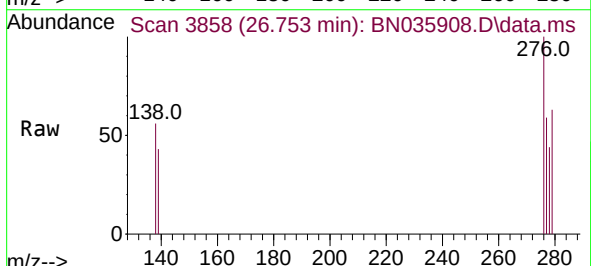
Tgt Ion:276 Resp: 214

Ion Ratio Lower Upper

276 100

277 58.6 22.8 34.2#

138 56.0 20.1 30.1#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011025\
 Data File : BN035912.D
 Acq On : 10 Jan 2025 21:20
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Jan 10 22:14:48 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

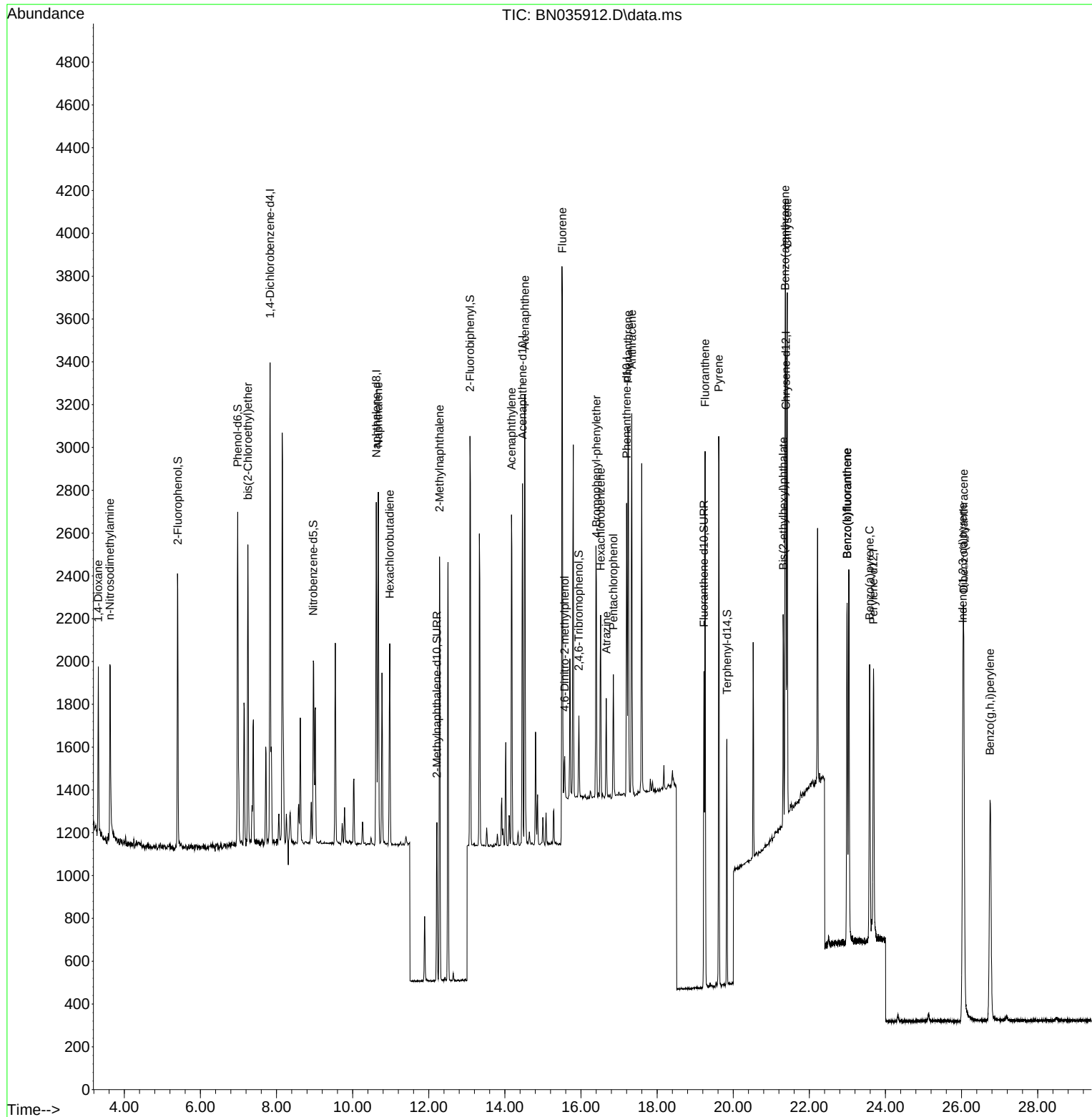
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.832	152	1033	0.400	ng	0.00
7) Naphthalene-d8	10.622	136	1896	0.400	ng	0.00
13) Acenaphthene-d10	14.463	164	908	0.400	ng	0.00
19) Phenanthrene-d10	17.199	188	1715	0.400	ng	#-0.01
29) Chrysene-d12	21.385	240	1402	0.400	ng	0.00
35) Perylene-d12	23.686	264	1689	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.405	112	945	0.373	ng	0.00
5) Phenol-d6	6.979	99	1174	0.373	ng	0.00
8) Nitrobenzene-d5	8.967	82	666	0.444	ng	-0.01
11) 2-Methylnaphthalene-d10	12.213	152	977	0.385	ng	0.00
14) 2,4,6-Tribromophenol	15.945	330	200	0.459	ng	-0.01
15) 2-Fluorobiphenyl	13.084	172	1635	0.410	ng	0.00
27) Fluoranthene-d10	19.230	212	1648	0.387	ng	0.00
31) Terphenyl-d14	19.834	244	1072	0.384	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.318	88	424	0.413	ng	# 92
3) n-Nitrosodimethylamine	3.621	42	786	0.439	ng	86
6) bis(2-Chloroethyl)ether	7.247	93	901	0.376	ng	96
9) Naphthalene	10.675	128	2101	0.395	ng	98
10) Hexachlorobutadiene	10.974	225	735	0.425	ng	# 99
12) 2-Methylnaphthalene	12.284	142	1282	0.389	ng	96
16) Acenaphthylene	14.174	152	1721	0.402	ng	100
17) Acenaphthene	14.527	154	1171	0.418	ng	95
18) Fluorene	15.511	166	1214	0.394	ng	97
20) 4,6-Dinitro-2-methylph...	15.573	198	180	0.604	ng	# 80
21) 4-Bromophenyl-phenylether	16.404	248	505	0.429	ng	# 78
22) Hexachlorobenzene	16.516	284	643	0.401	ng	96
23) Atrazine	16.665	200	330	0.418	ng	# 93
24) Pentachlorophenol	16.851	266	267	0.470	ng	98
25) Phenanthrene	17.236	178	2015	0.403	ng	100
26) Anthracene	17.335	178	1809	0.397	ng	99
28) Fluoranthene	19.262	202	2230	0.382	ng	99
30) Pyrene	19.620	202	2313	0.406	ng	99
32) Benzo(a)anthracene	21.367	228	1990	0.403	ng	97
33) Chrysene	21.421	228	2033	0.393	ng	97
34) Bis(2-ethylhexyl)phtha...	21.313	149	959	0.477	ng	99
36) Indeno(1,2,3-cd)pyrene	26.034	276	2628	0.395	ng	97
37) Benzo(b)fluoranthene	22.991	252	2167	0.373	ng	95
38) Benzo(k)fluoranthene	22.991	252	2167	0.377	ng	97
39) Benzo(a)pyrene	23.584	252	1927	0.384	ng	97
40) Dibenzo(a,h)anthracene	26.057	278	2091	0.395	ng	95
41) Benzo(g,h,i)perylene	26.747	276	2297	0.388	ng	97

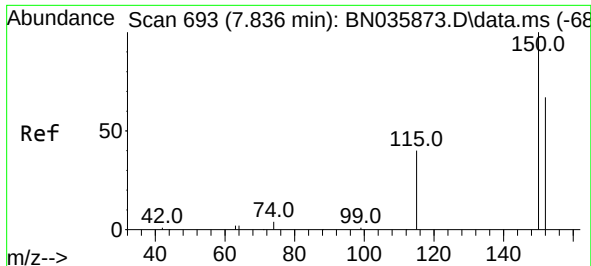
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035912.D
Acq On : 10 Jan 2025 21:20
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

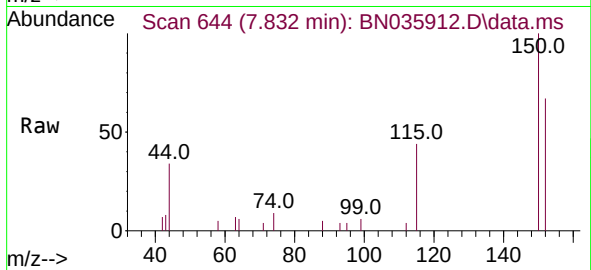
Quant Time: Jan 10 22:14:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration



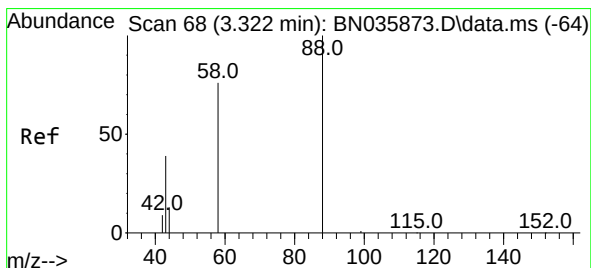
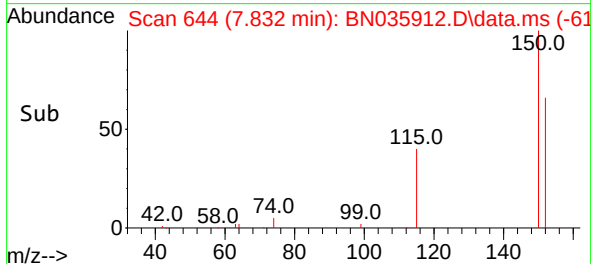
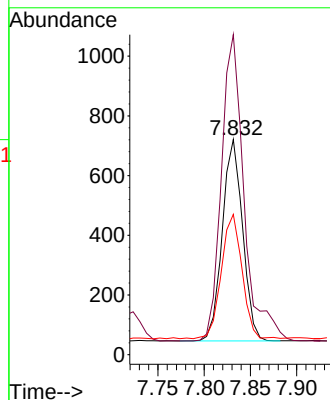


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.832 min Scan# 64
Delta R.T. -0.004 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

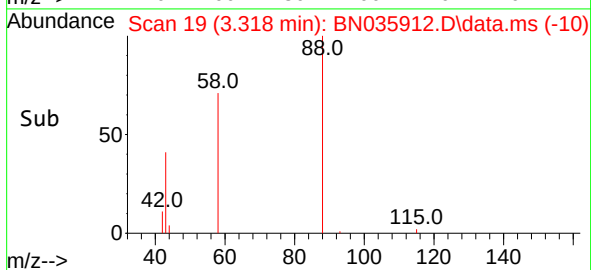
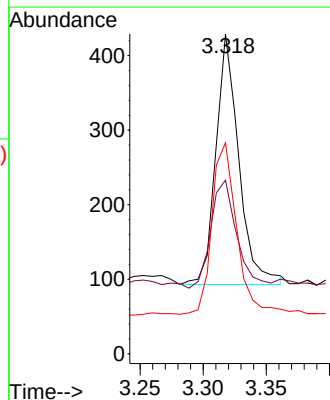
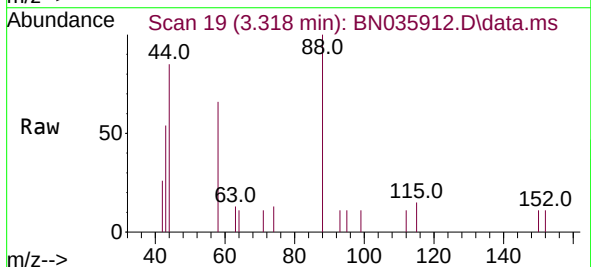


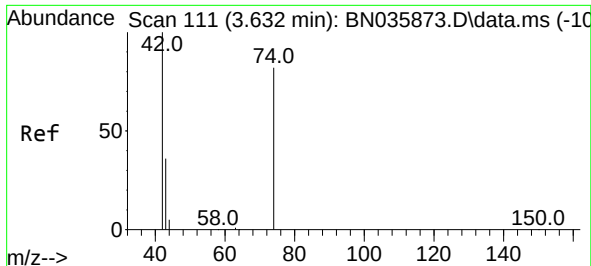
Tgt Ion:152 Resp: 1033
Ion Ratio Lower Upper
152 100
150 148.7 117.8 176.6
115 65.2 51.0 76.4



#2
1,4-Dioxane
Concen: 0.413 ng
RT: 3.318 min Scan# 19
Delta R.T. -0.004 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Tgt Ion: 88 Resp: 424
Ion Ratio Lower Upper
88 100
43 49.3 32.7 49.1#
58 73.8 63.0 94.4

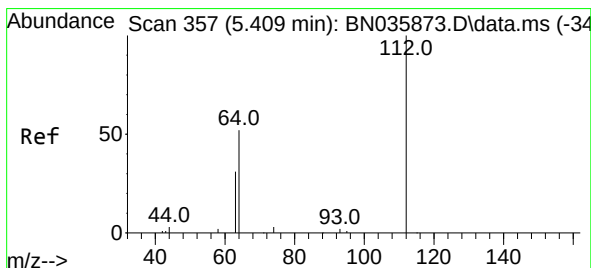
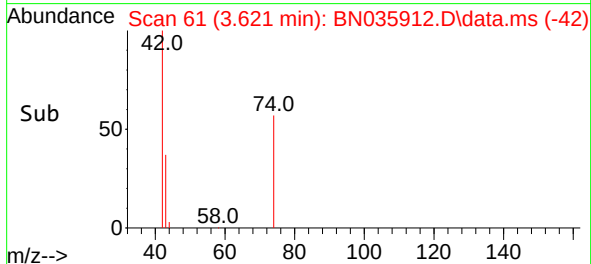
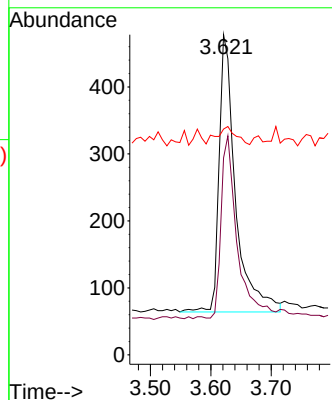
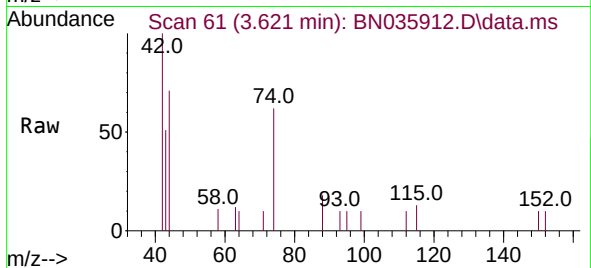




#3
n-Nitrosodimethylamine
Concen: 0.439 ng
RT: 3.621 min Scan# 61
Delta R.T. -0.011 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

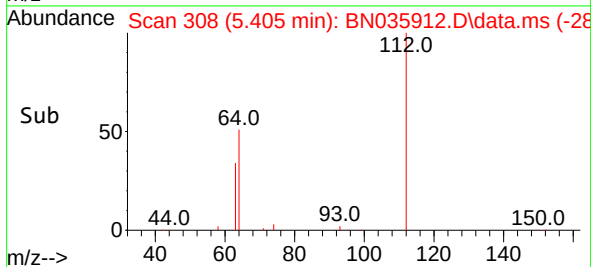
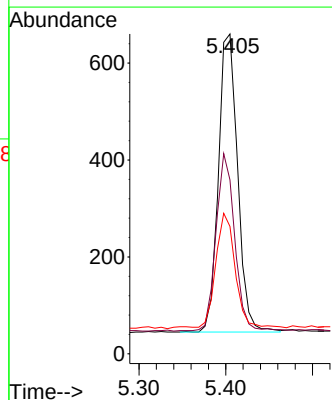
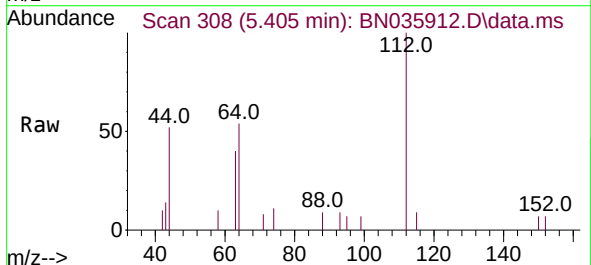
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

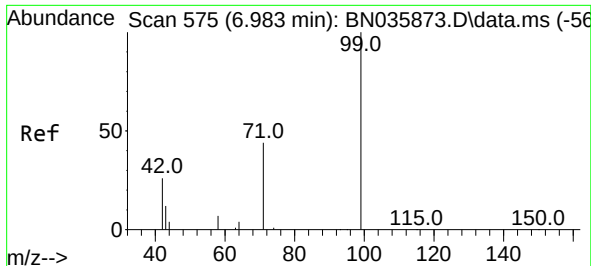
Tgt Ion: 42 Resp: 786
Ion Ratio Lower Upper
42 100
74 64.1 62.2 93.2
44 7.3 7.1 10.7



#4
2-Fluorophenol
Concen: 0.373 ng
RT: 5.405 min Scan# 308
Delta R.T. -0.004 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Tgt Ion: 112 Resp: 945
Ion Ratio Lower Upper
112 100
64 57.4 48.2 72.2
63 38.6 30.0 45.0

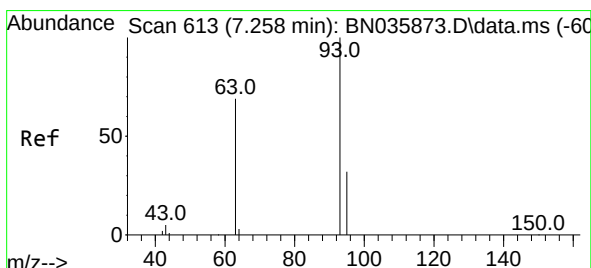
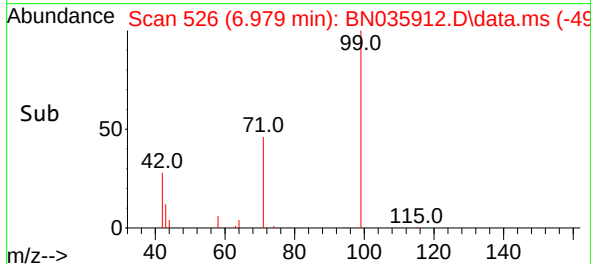
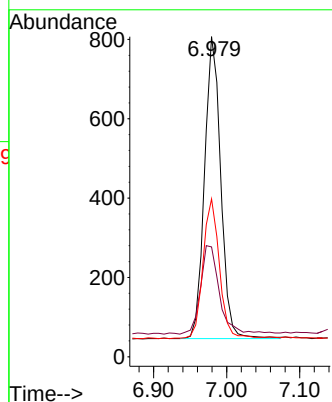
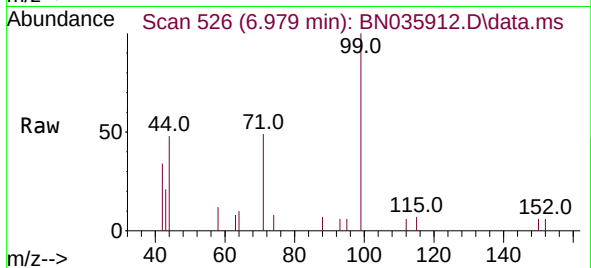




#5
Phenol-d6
Concen: 0.373 ng
RT: 6.979 min Scan# 51
Delta R.T. -0.004 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

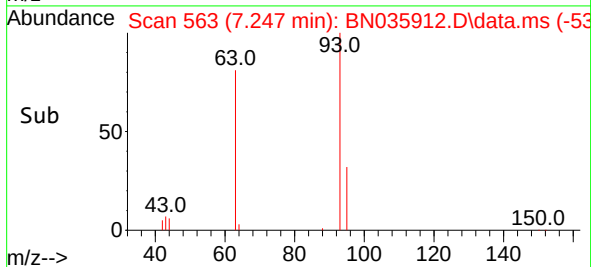
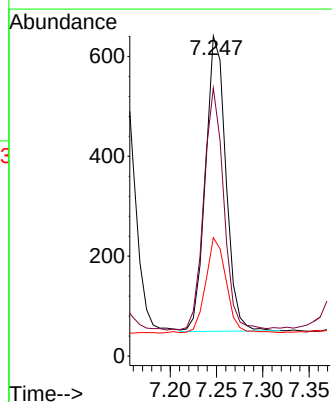
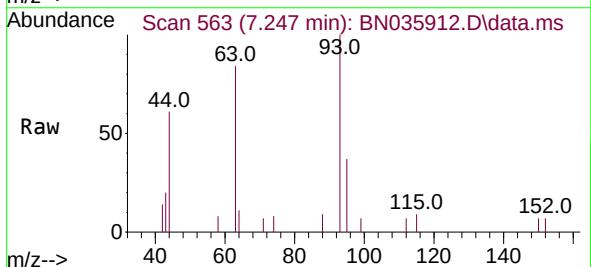
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

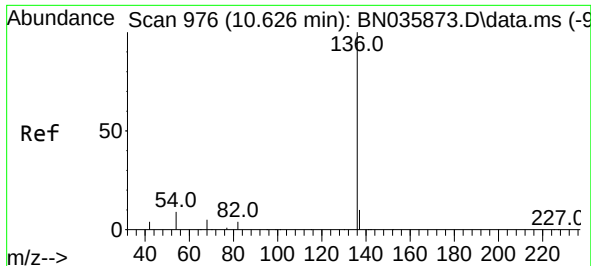
Tgt Ion:	99	Resp:	1174
Ion	Ratio	Lower	Upper
99	100		
42	34.8	23.5	35.3
71	46.7	35.5	53.3



#6
bis(2-Chloroethyl)ether
Concen: 0.376 ng
RT: 7.247 min Scan# 563
Delta R.T. -0.011 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

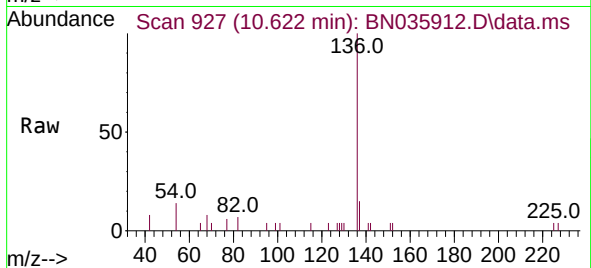
Tgt Ion:	93	Resp:	901
Ion	Ratio	Lower	Upper
93	100		
63	81.1	62.0	93.0
95	33.1	25.5	38.3



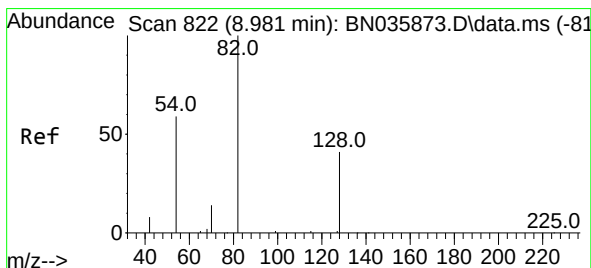
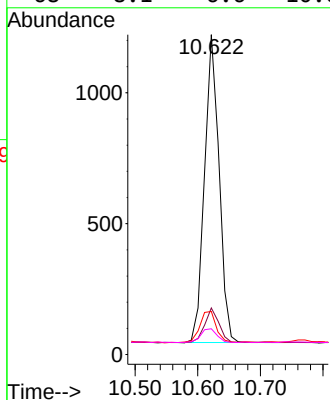
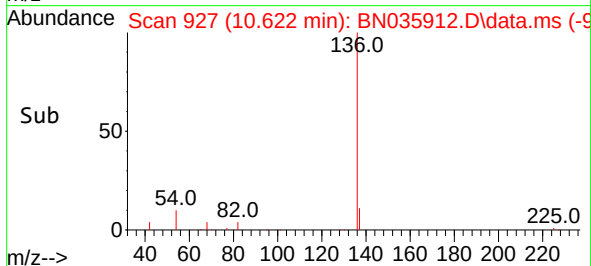


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.622 min Scan# 91
Delta R.T. -0.004 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

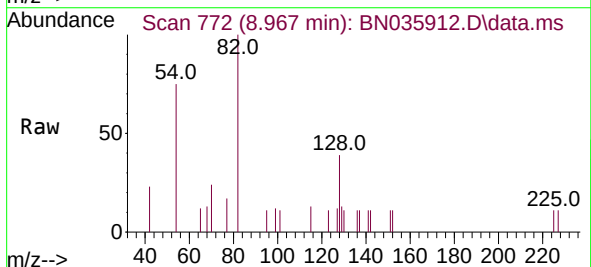
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



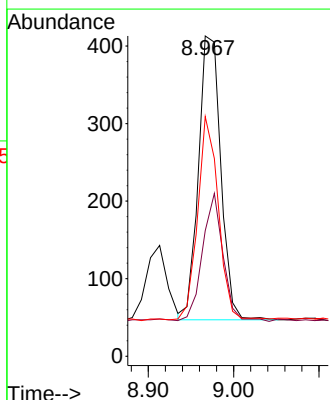
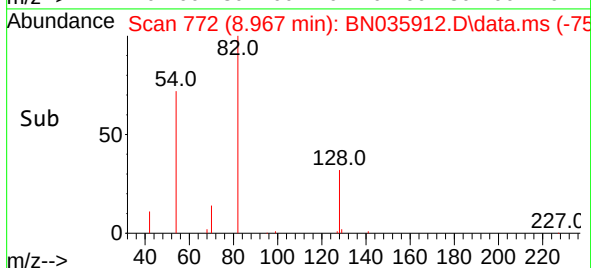
Tgt Ion:136	Resp:	1896
Ion	Ratio	Lower Upper
136	100	
137	14.6	10.6 15.8
54	13.5	9.8 14.6
68	8.1	6.6 10.0

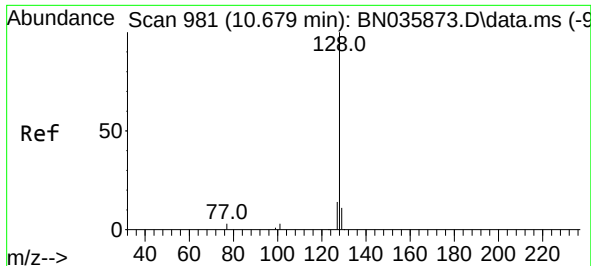


#8
Nitrobenzene-d5
Concen: 0.444 ng
RT: 8.967 min Scan# 772
Delta R.T. -0.015 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20



Tgt Ion: 82	Resp:	666
Ion	Ratio	Lower Upper
82	100	
128	39.2	36.9 55.3
54	74.8	50.4 75.6

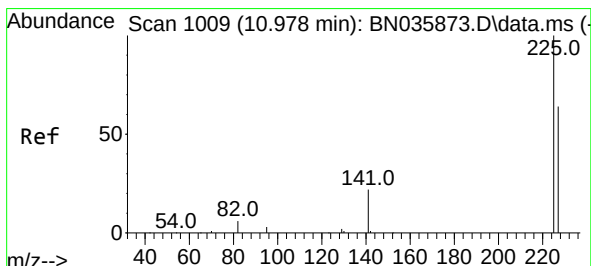
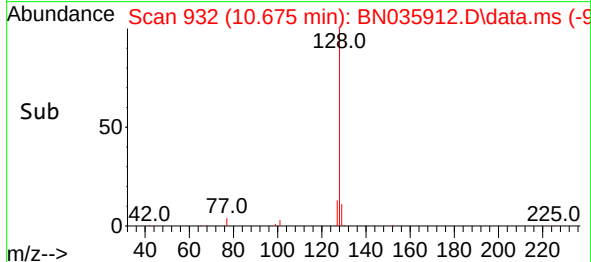
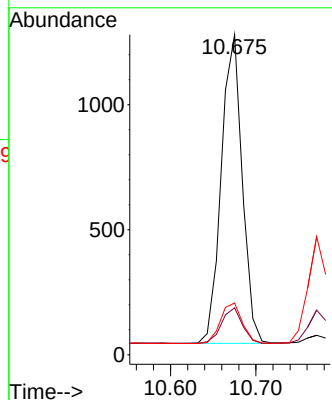
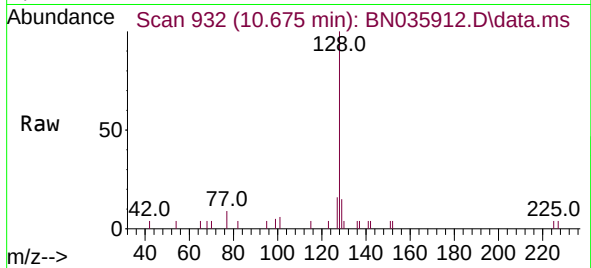




#9
Naphthalene
Concen: 0.395 ng
RT: 10.675 min Scan# 91
Delta R.T. -0.004 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

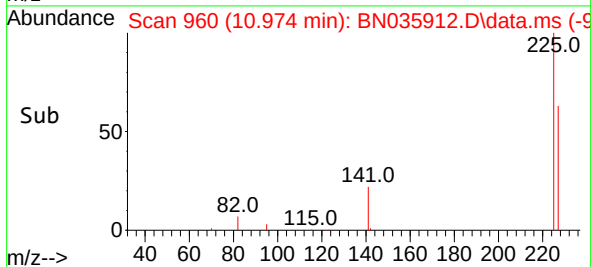
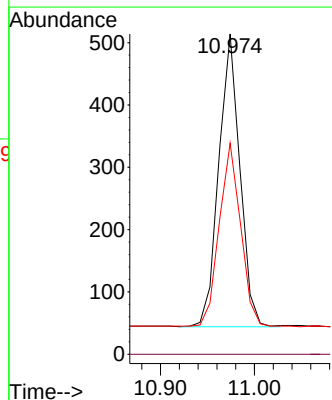
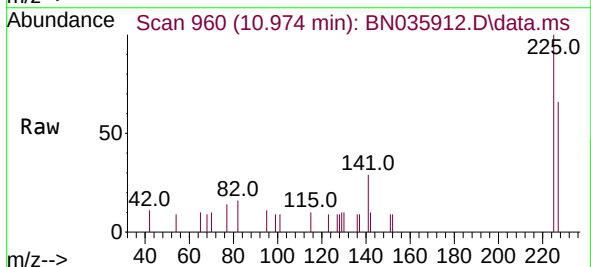
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

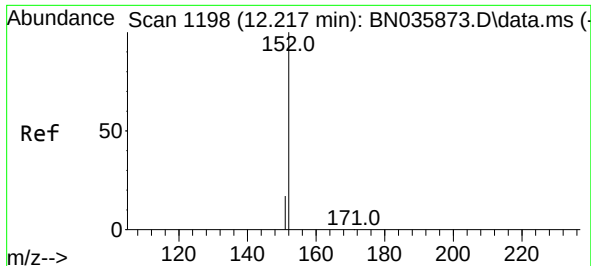
Tgt Ion:	128	Resp:	2101
Ion	Ratio	Lower	Upper
128	100		
129	14.7	10.6	16.0
127	16.2	12.8	19.2



#10
Hexachlorobutadiene
Concen: 0.425 ng
RT: 10.974 min Scan# 960
Delta R.T. -0.004 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Tgt Ion:	225	Resp:	735
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.9	51.5	77.3

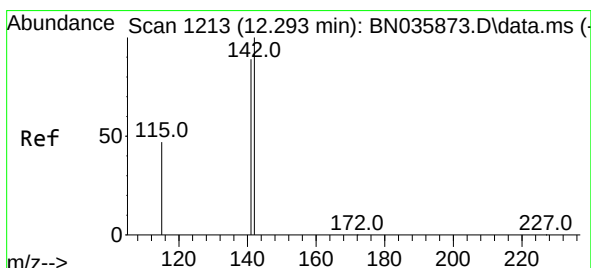
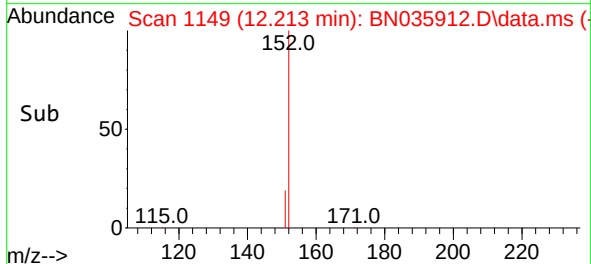
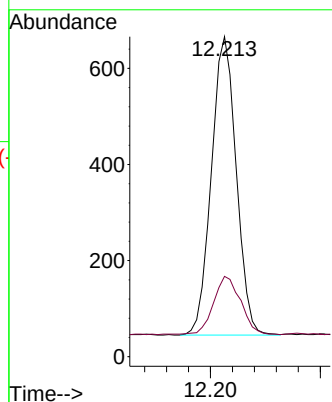
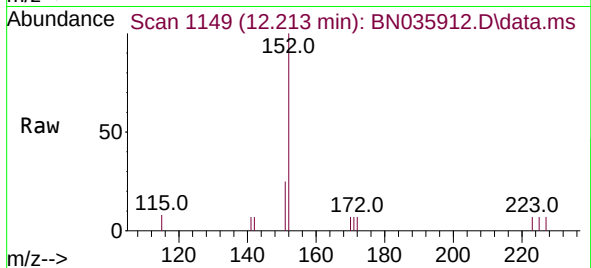




#11
2-Methylnaphthalene-d10
Concen: 0.385 ng
RT: 12.213 min Scan# 1198
Delta R.T. -0.004 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

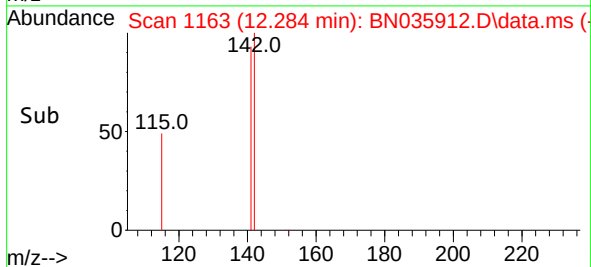
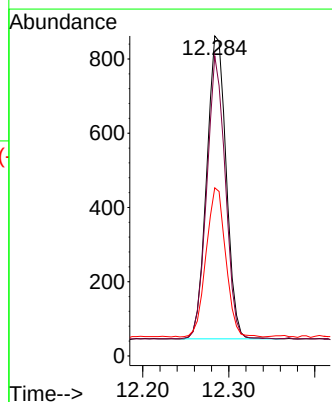
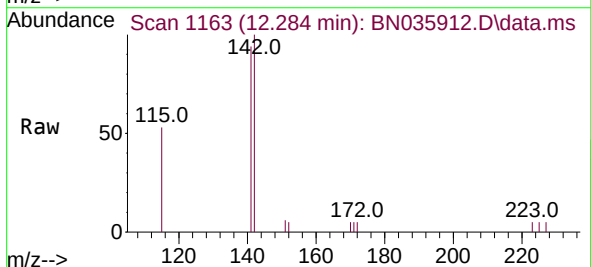
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

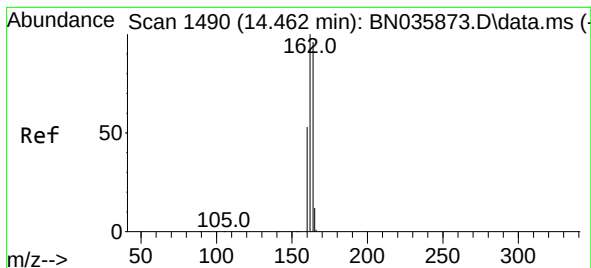
Tgt Ion:152 Resp: 977
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.389 ng
RT: 12.284 min Scan# 1163
Delta R.T. -0.009 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Tgt Ion:142 Resp: 1282
Ion Ratio Lower Upper
142 100
141 93.7 71.9 107.9
115 52.6 39.6 59.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.463 min Scan# 14

Delta R.T. 0.001 min

Lab File: BN035912.D

Acq: 10 Jan 2025 21:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

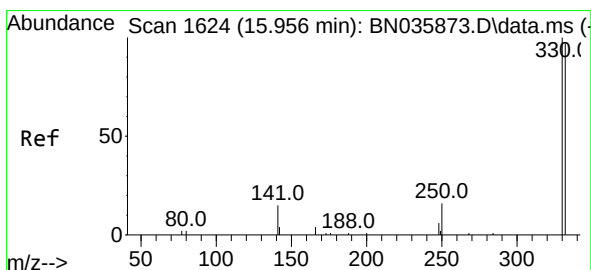
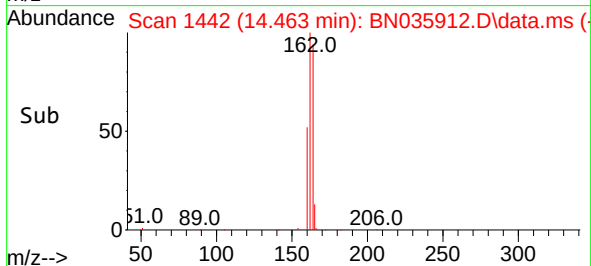
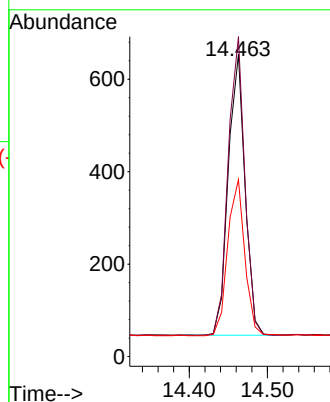
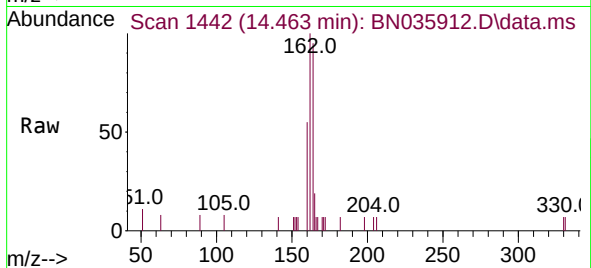
Tgt Ion:164 Resp: 908

Ion Ratio Lower Upper

164 100

162 105.8 83.1 124.7

160 58.6 46.0 69.0



#14

2,4,6-Tribromophenol

Concen: 0.459 ng

RT: 15.945 min Scan# 1575

Delta R.T. -0.011 min

Lab File: BN035912.D

Acq: 10 Jan 2025 21:20

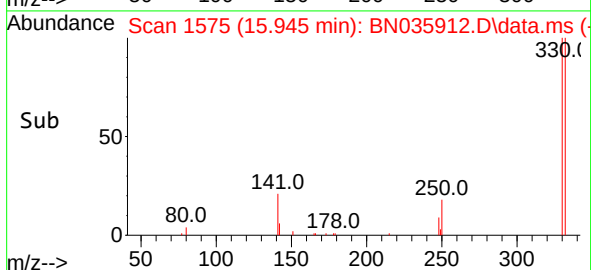
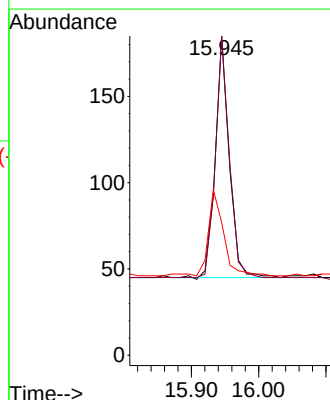
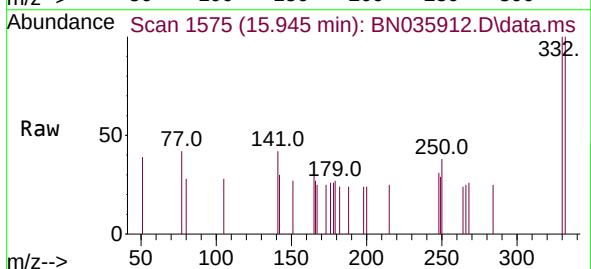
Tgt Ion:330 Resp: 200

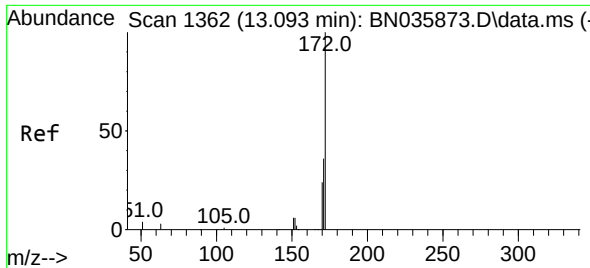
Ion Ratio Lower Upper

330 100

332 99.0 77.2 115.8

141 42.5 31.6 47.4

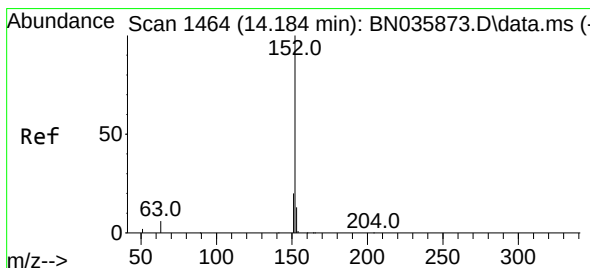
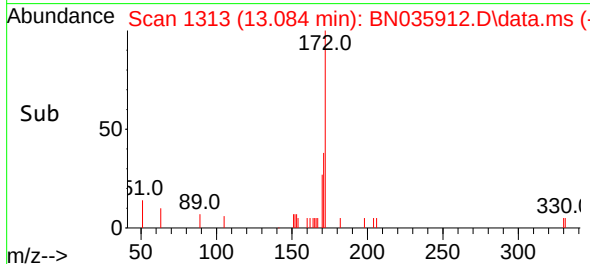
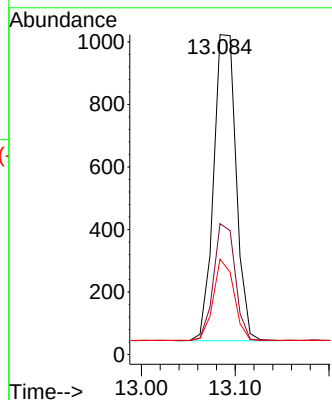
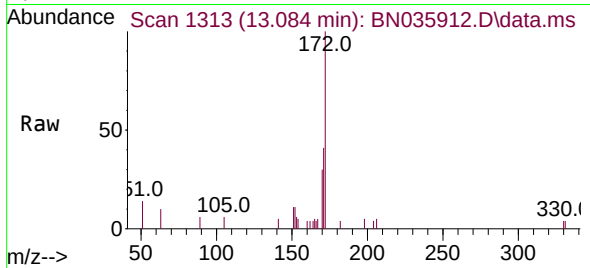




#15
2-Fluorobiphenyl
Concen: 0.410 ng
RT: 13.084 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

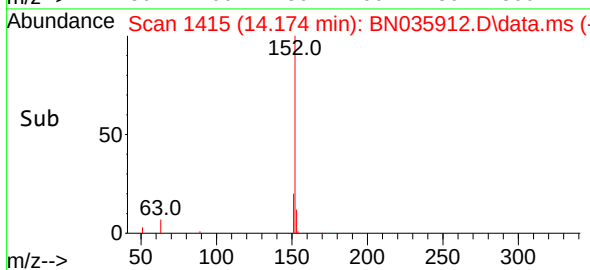
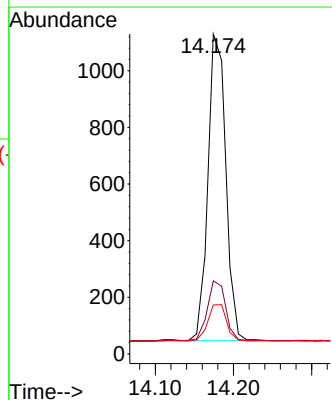
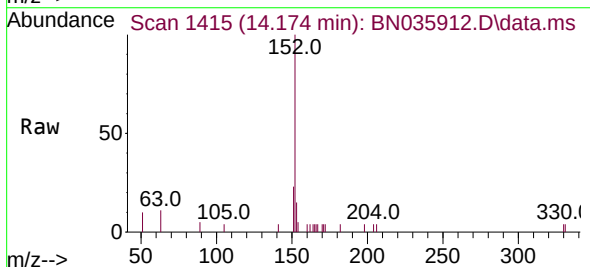
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

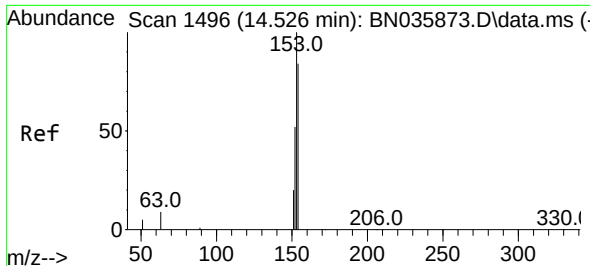
Tgt Ion:	172	Resp:	1635
Ion	Ratio	Lower	Upper
172	100		
171	41.0	30.5	45.7
170	29.8	20.8	31.2



#16
Acenaphthylene
Concen: 0.402 ng
RT: 14.174 min Scan# 1415
Delta R.T. -0.010 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Tgt Ion:	152	Resp:	1721
Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.3	24.5
153	13.0	10.6	15.8

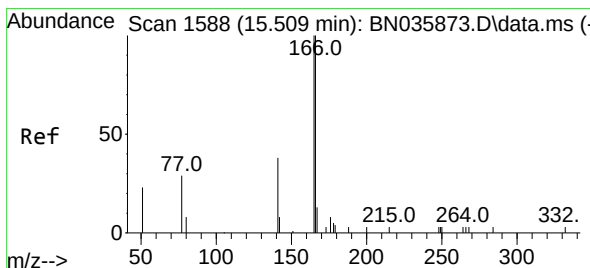
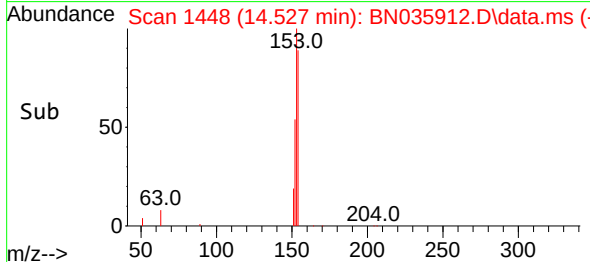
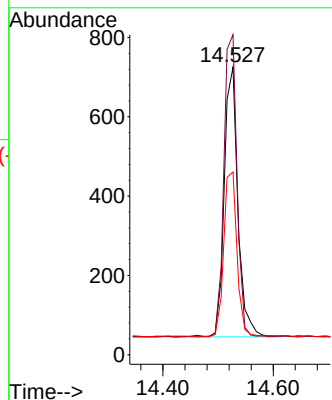
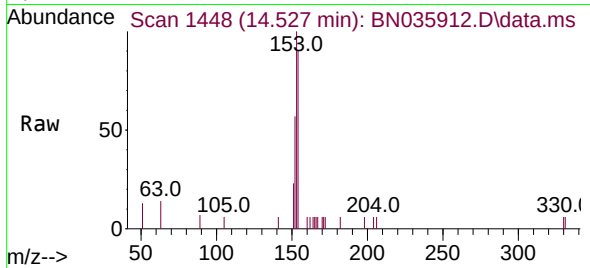




#17
Acenaphthene
Concen: 0.418 ng
RT: 14.527 min Scan# 1448
Delta R.T. 0.001 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

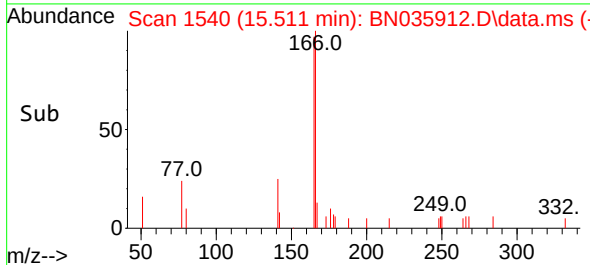
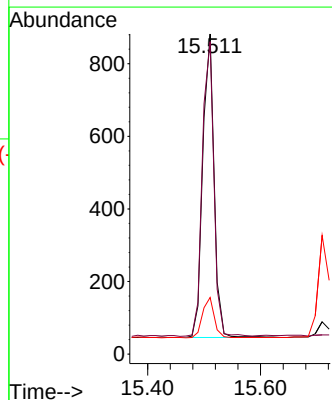
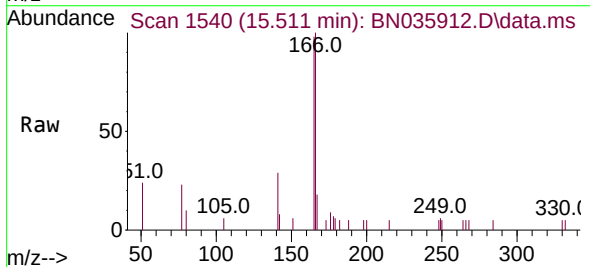
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

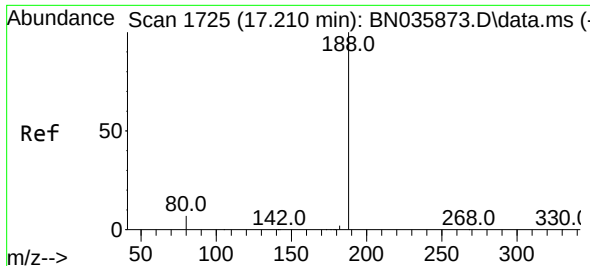
Tgt Ion:154 Resp: 1171
Ion Ratio Lower Upper
154 100
153 107.0 90.5 135.7
152 58.8 48.6 73.0



#18
Fluorene
Concen: 0.394 ng
RT: 15.511 min Scan# 1540
Delta R.T. 0.001 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Tgt Ion:166 Resp: 1214
Ion Ratio Lower Upper
166 100
165 97.8 80.6 120.8
167 14.3 11.4 17.0

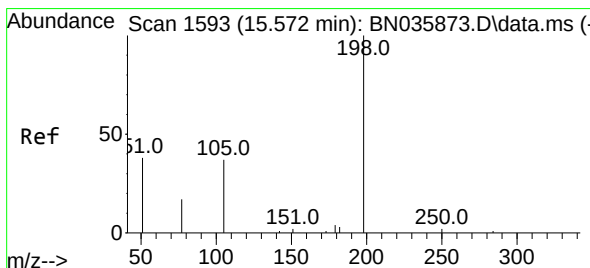
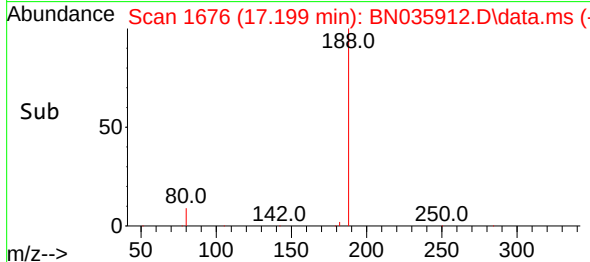
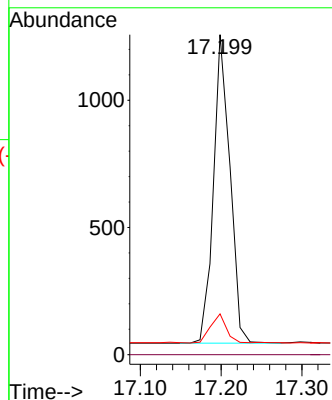
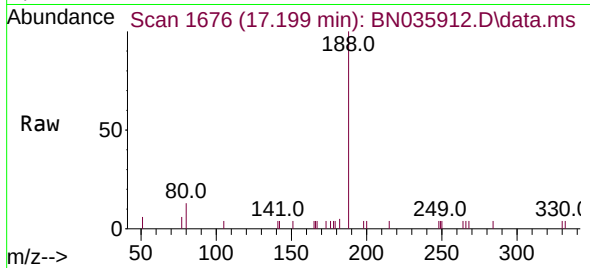




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.199 min Scan# 1715
Delta R.T. -0.011 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

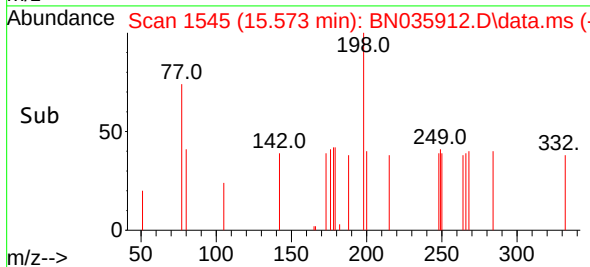
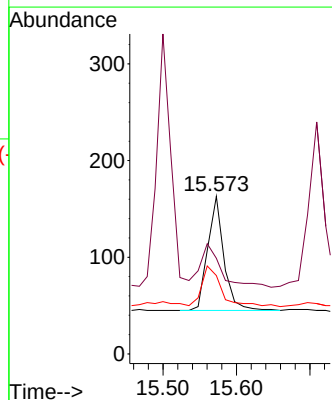
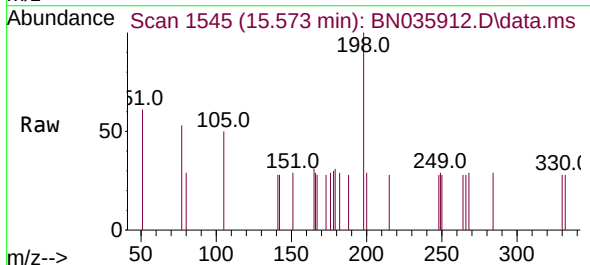
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

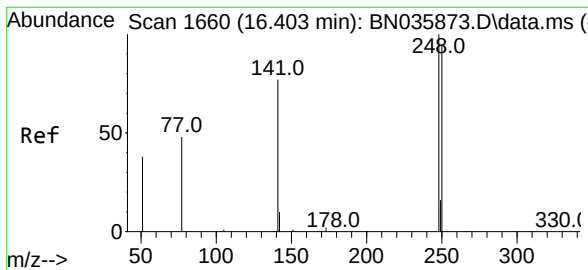
Tgt Ion:188	Resp:	1715
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	12.7	7.3



#20
4,6-Dinitro-2-methylphenol
Concen: 0.604 ng
RT: 15.573 min Scan# 1545
Delta R.T. 0.001 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Tgt Ion:198	Resp:	180
Ion Ratio	Lower	Upper
198	100	
51	60.7	64.3
105	49.7	50.0

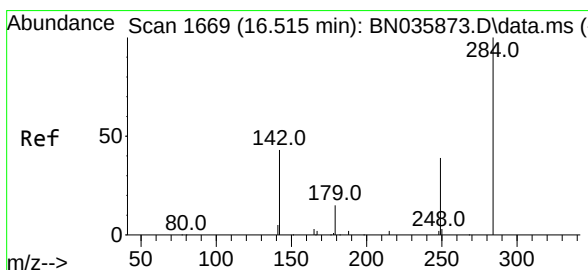
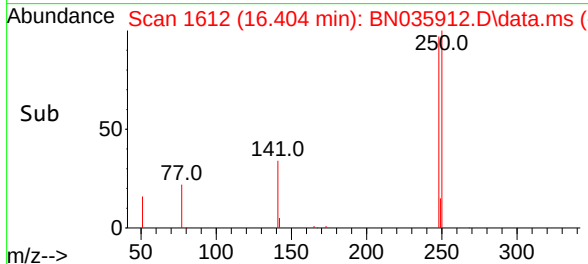
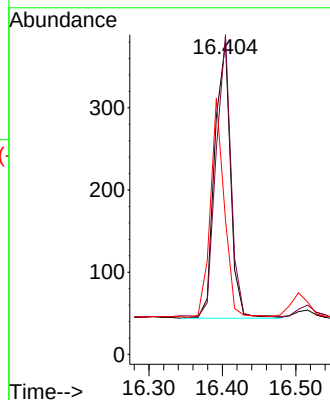
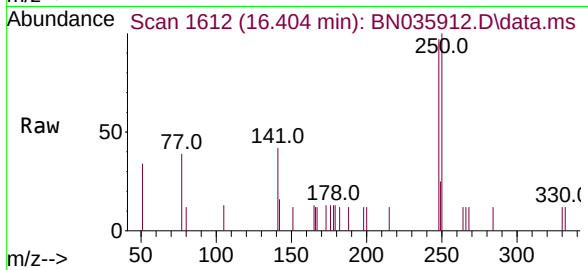




#21
4-Bromophenyl-phenylether
Concen: 0.429 ng
RT: 16.404 min Scan# 1621
Delta R.T. 0.001 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

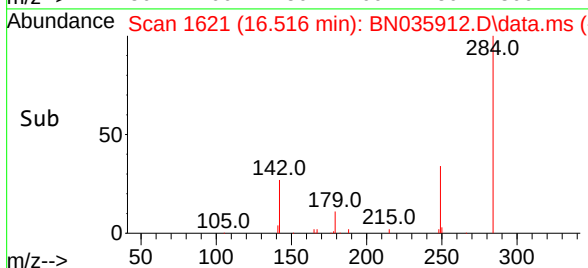
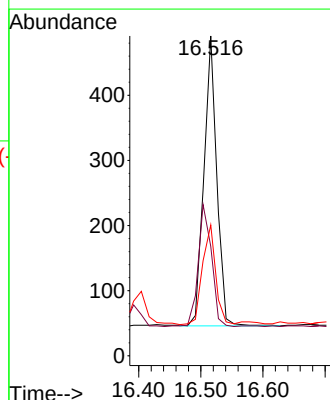
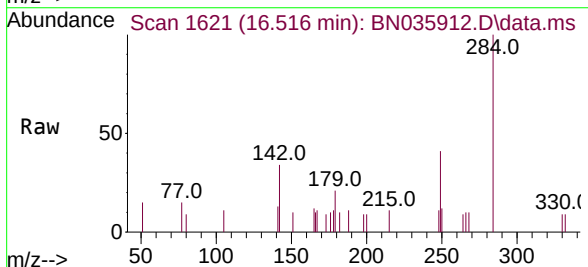
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

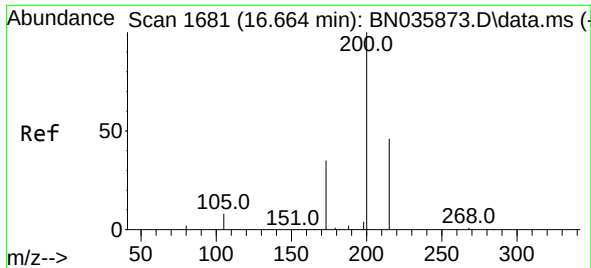
Tgt Ion:248 Resp: 505
Ion Ratio Lower Upper
248 100
250 102.6 76.8 115.2
141 43.3 63.6 95.4#



#22
Hexachlorobenzene
Concen: 0.401 ng
RT: 16.516 min Scan# 1621
Delta R.T. 0.001 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Tgt Ion:284 Resp: 643
Ion Ratio Lower Upper
284 100
142 43.4 31.4 47.0
249 35.1 27.8 41.8

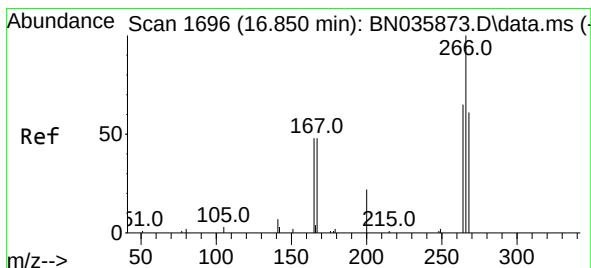
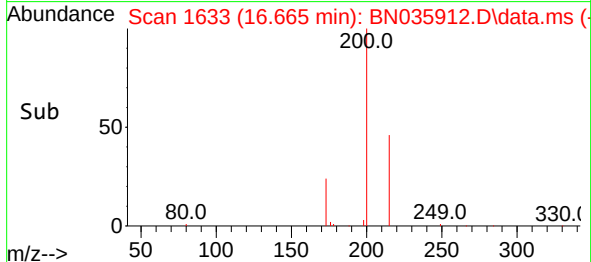
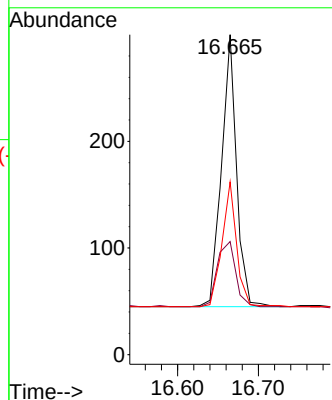
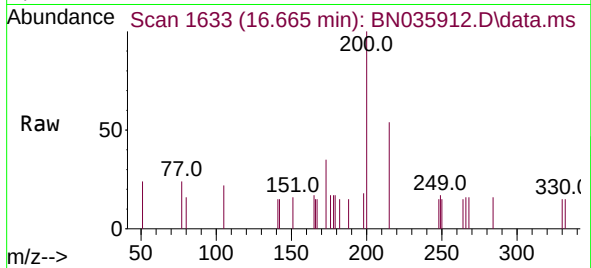




#23
 Atrazine
 Concen: 0.418 ng
 RT: 16.665 min Scan# 1633
 Delta R.T. 0.001 min
 Lab File: BN035912.D
 Acq: 10 Jan 2025 21:20

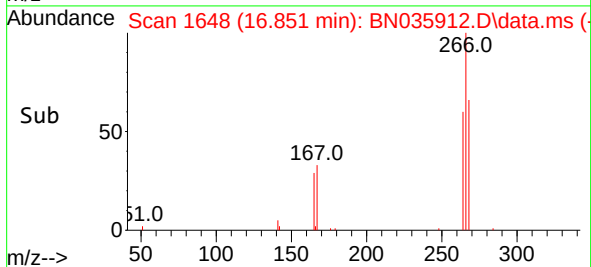
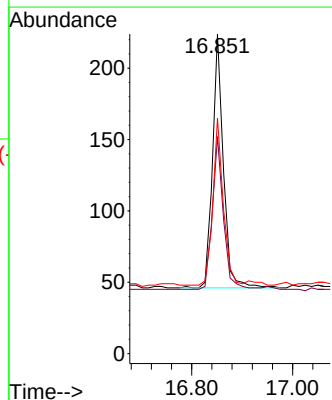
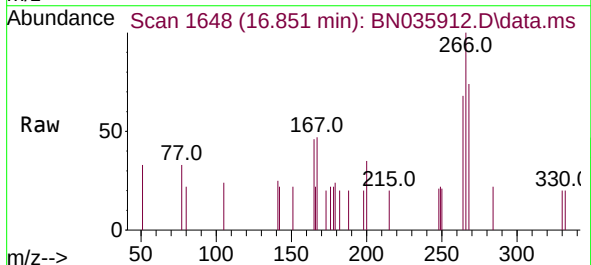
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

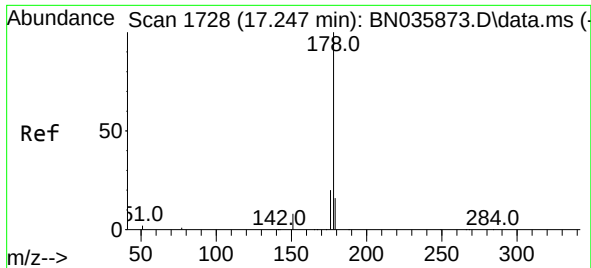
Tgt Ion:200 Resp: 330
 Ion Ratio Lower Upper
 200 100
 173 35.3 35.4 53.0#
 215 54.0 42.4 63.6



#24
 Pentachlorophenol
 Concen: 0.470 ng
 RT: 16.851 min Scan# 1648
 Delta R.T. 0.001 min
 Lab File: BN035912.D
 Acq: 10 Jan 2025 21:20

Tgt Ion:266 Resp: 267
 Ion Ratio Lower Upper
 266 100
 264 60.7 49.9 74.9
 268 64.0 50.2 75.2

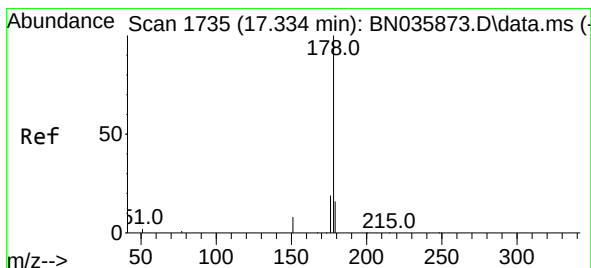
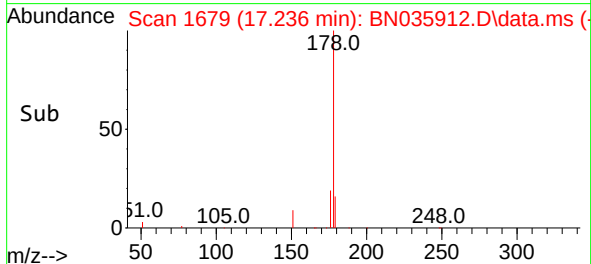
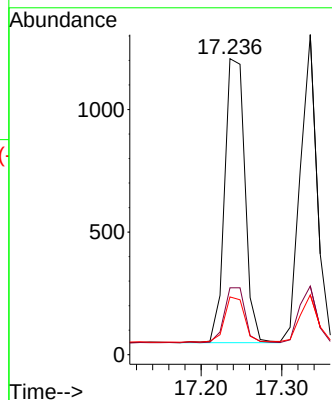
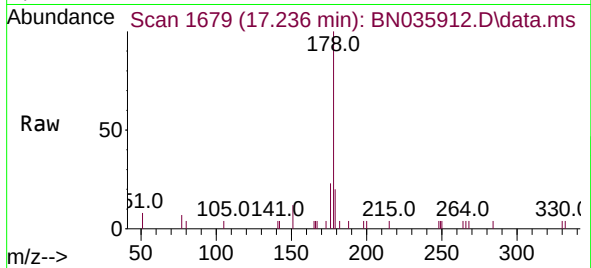




#25
Phenanthrene
Concen: 0.403 ng
RT: 17.236 min Scan# 1679
Delta R.T. -0.011 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

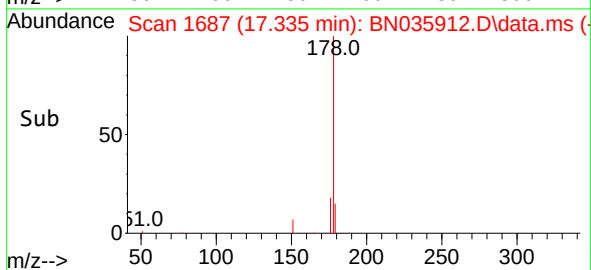
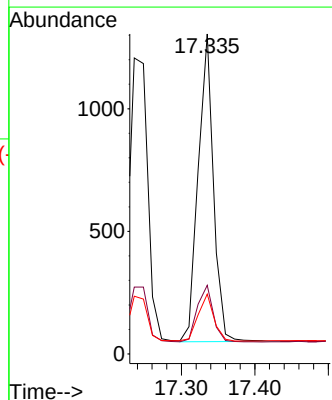
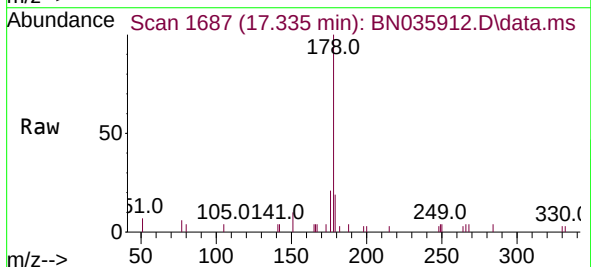
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

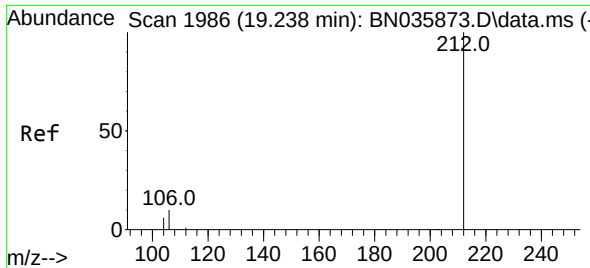
Tgt Ion:	178	Resp:	2015
Ion Ratio	Lower	Upper	
178	100		
176	19.8	15.9	23.9
179	15.8	12.9	19.3



#26
Anthracene
Concen: 0.397 ng
RT: 17.335 min Scan# 1687
Delta R.T. 0.001 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Tgt Ion:	178	Resp:	1809
Ion Ratio	Lower	Upper	
178	100		
176	19.3	15.0	22.6
179	15.6	13.0	19.6

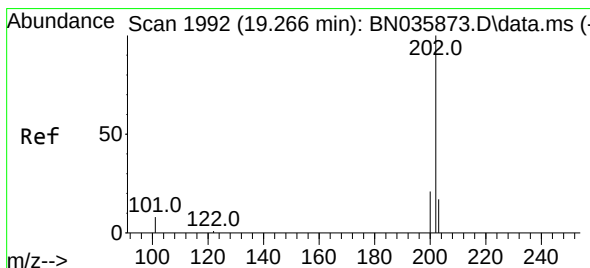
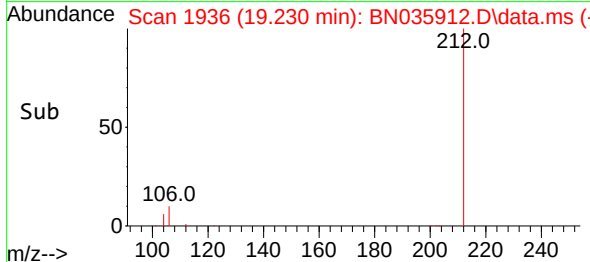
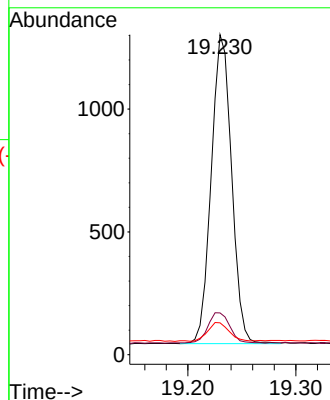
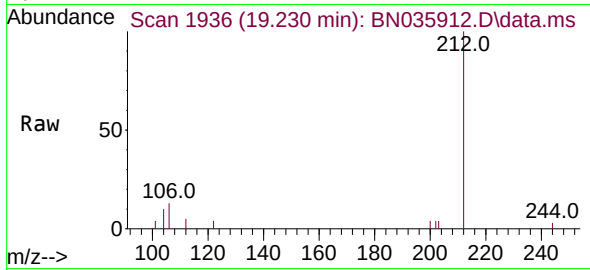




#27
Fluoranthene-d10
Concen: 0.387 ng
RT: 19.230 min Scan# 1943
Delta R.T. -0.008 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

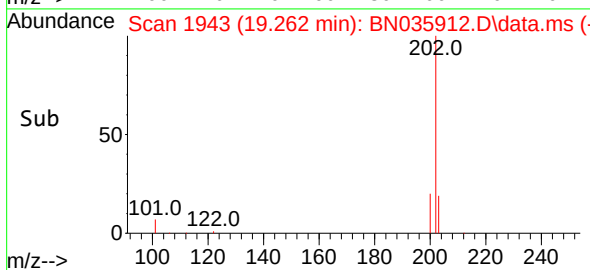
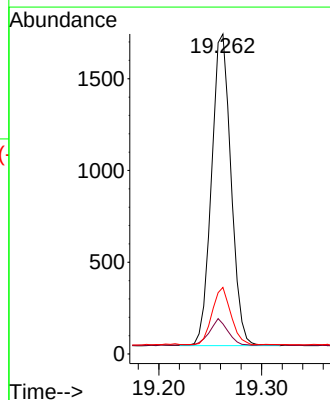
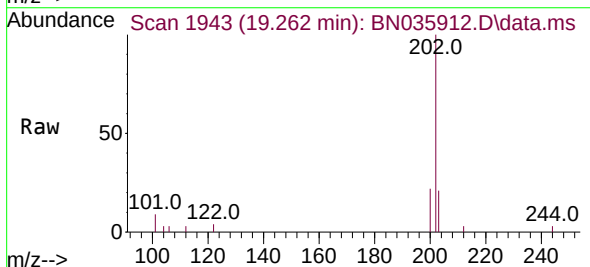
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

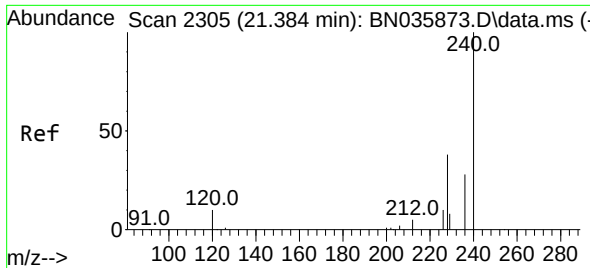
Tgt Ion:212 Resp: 1648
Ion Ratio Lower Upper
212 100
106 10.7 9.0 13.6
104 6.6 5.4 8.2



#28
Fluoranthene
Concen: 0.382 ng
RT: 19.262 min Scan# 1943
Delta R.T. -0.004 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

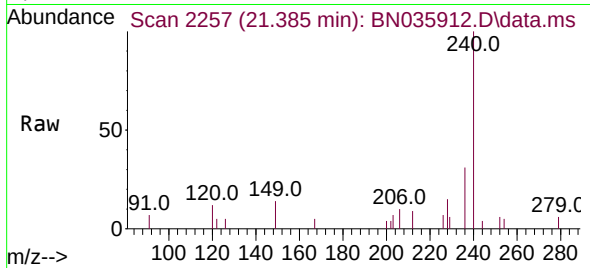
Tgt Ion:202 Resp: 2230
Ion Ratio Lower Upper
202 100
101 8.3 7.2 10.8
203 17.7 13.9 20.9



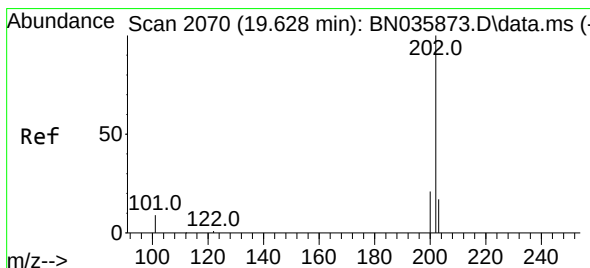
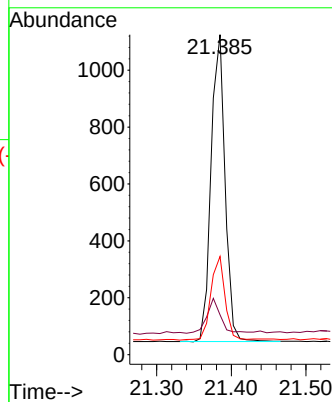
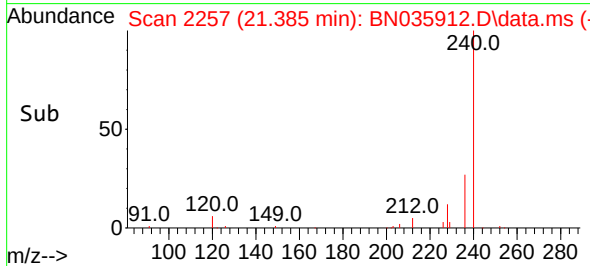


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.385 min Scan# 21
Delta R.T. 0.001 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

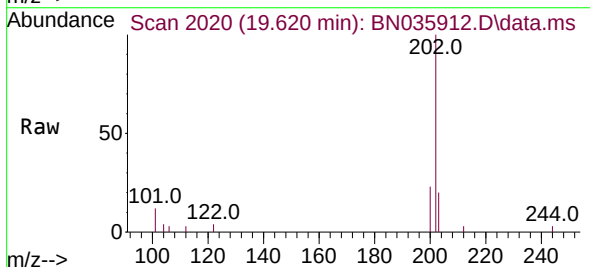
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



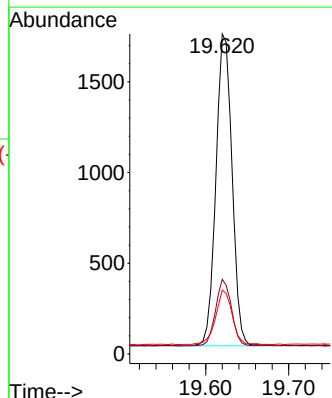
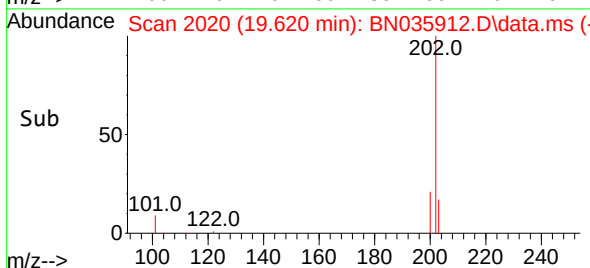
Tgt Ion:240 Resp: 1402
Ion Ratio Lower Upper
240 100
120 12.4 11.1 16.7
236 30.7 24.6 36.8

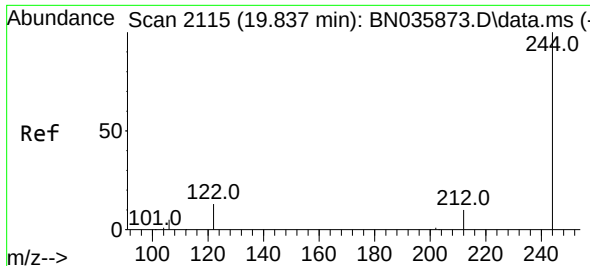


#30
Pyrene
Concen: 0.406 ng
RT: 19.620 min Scan# 2020
Delta R.T. -0.008 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20



Tgt Ion:202 Resp: 2313
Ion Ratio Lower Upper
202 100
200 20.8 17.0 25.6
203 17.8 14.6 22.0

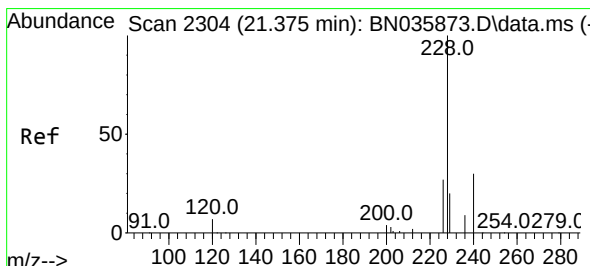
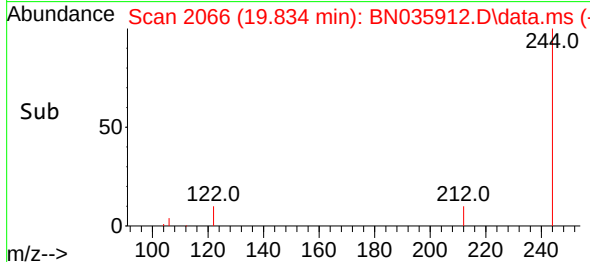
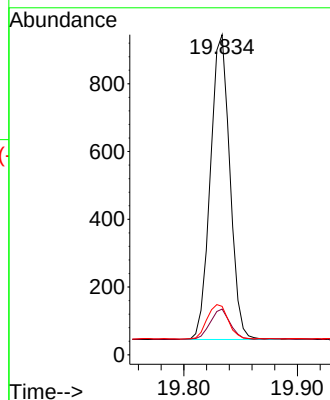
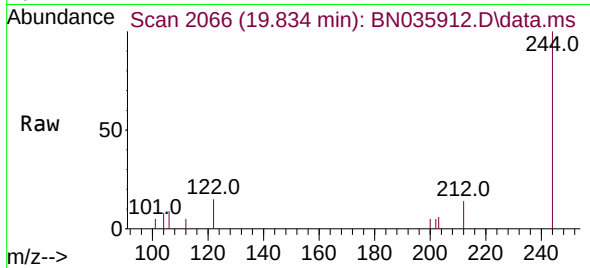




#31
 Terphenyl-d14
 Concen: 0.384 ng
 RT: 19.834 min Scan# 20
 Delta R.T. -0.004 min
 Lab File: BN035912.D
 Acq: 10 Jan 2025 21:20

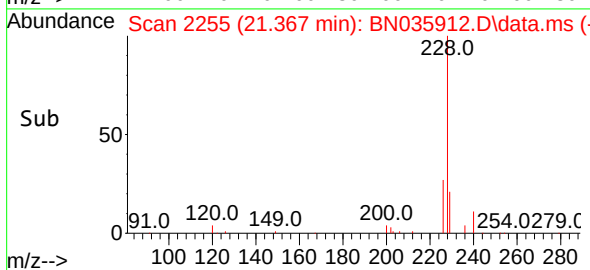
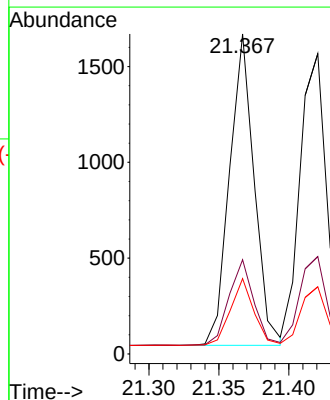
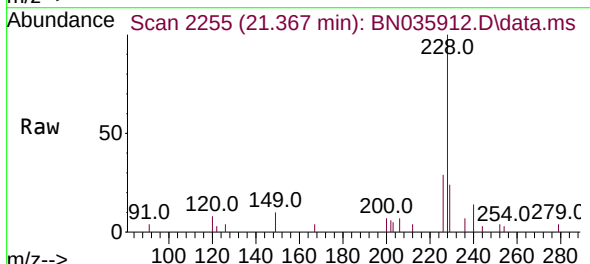
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

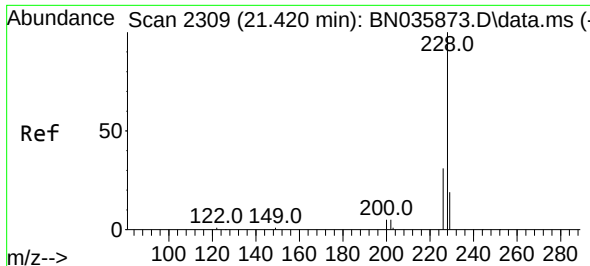
Tgt Ion:244	Resp:	1072
Ion Ratio	Lower	Upper
244	100	
212	14.3	10.1 15.1
122	15.1	12.2 18.4



#32
 Benzo(a)anthracene
 Concen: 0.403 ng
 RT: 21.367 min Scan# 2255
 Delta R.T. -0.008 min
 Lab File: BN035912.D
 Acq: 10 Jan 2025 21:20

Tgt Ion:228	Resp:	1990
Ion Ratio	Lower	Upper
228	100	
226	29.5	22.7 34.1
229	23.5	17.1 25.7





#33

Chrysene

Concen: 0.393 ng

RT: 21.421 min Scan# 21

Delta R.T. 0.001 min

Lab File: BN035912.D

Acq: 10 Jan 2025 21:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

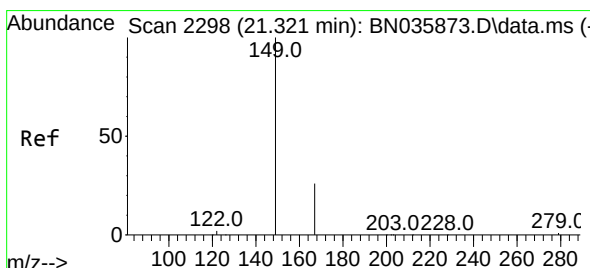
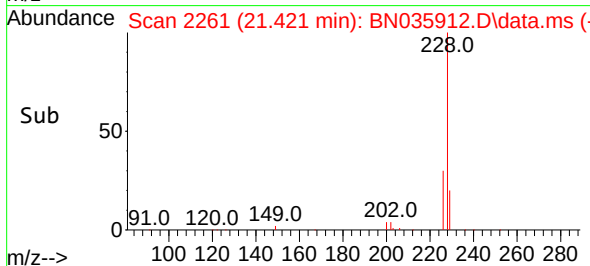
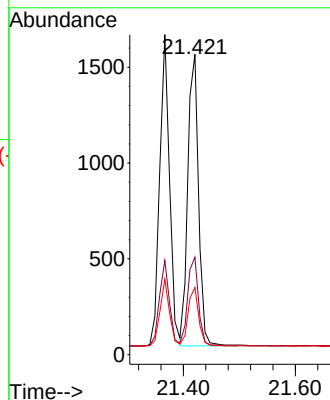
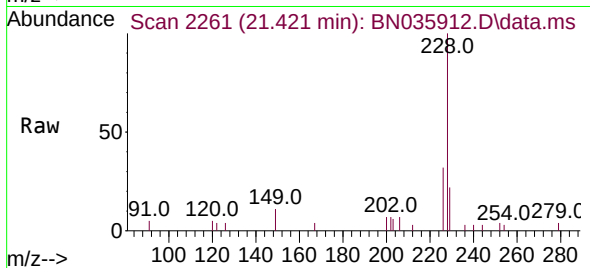
Tgt Ion:228 Resp: 2033

Ion Ratio Lower Upper

228 100

226 32.5 25.2 37.8

229 22.4 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.477 ng

RT: 21.313 min Scan# 2249

Delta R.T. -0.008 min

Lab File: BN035912.D

Acq: 10 Jan 2025 21:20

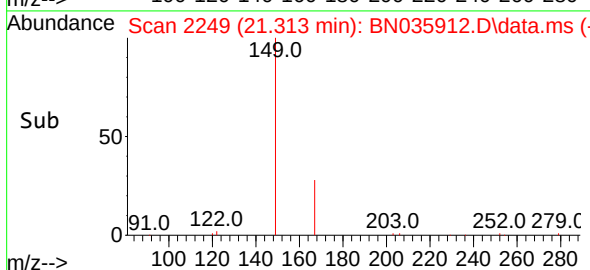
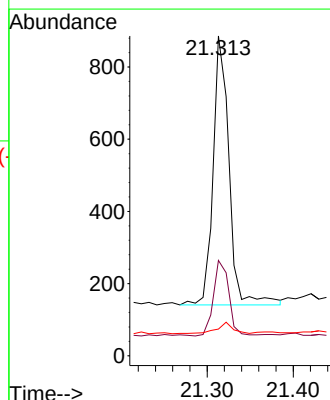
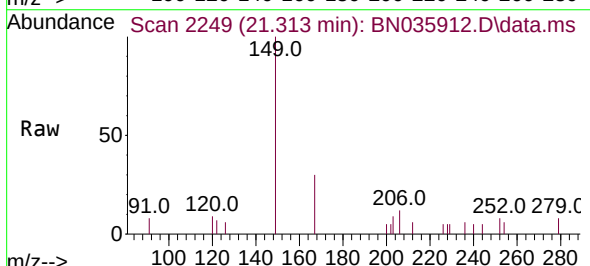
Tgt Ion:149 Resp: 959

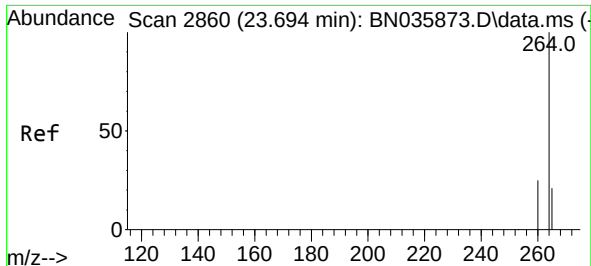
Ion Ratio Lower Upper

149 100

167 27.1 21.4 32.0

279 3.9 3.0 4.6

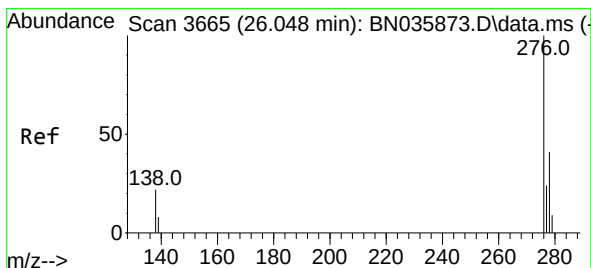
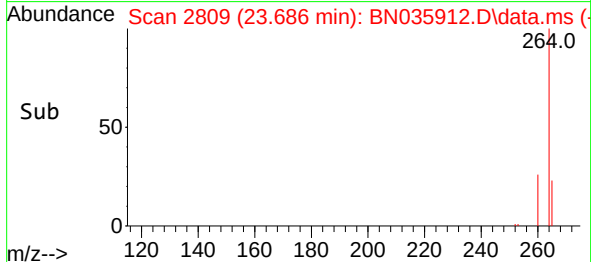
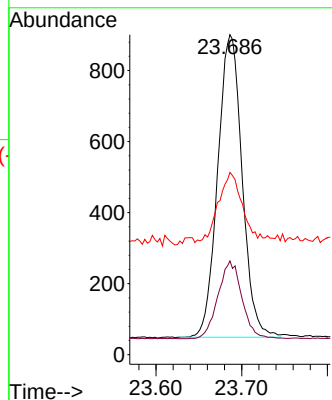
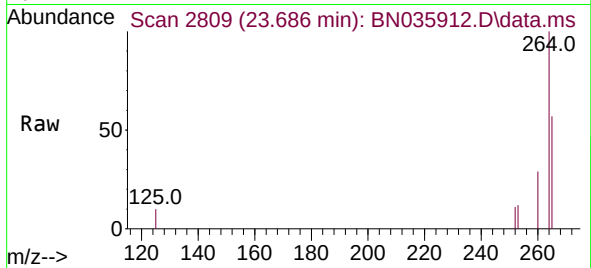




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.686 min Scan# 21
Delta R.T. -0.008 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

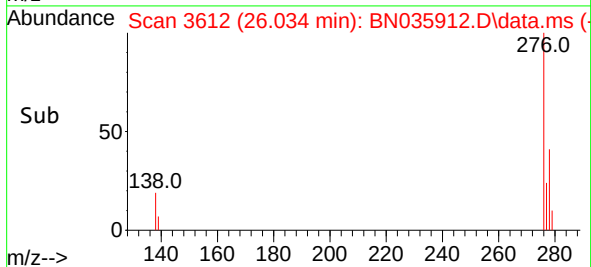
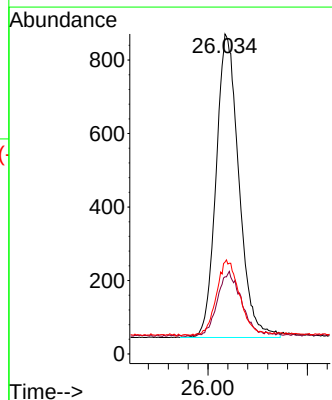
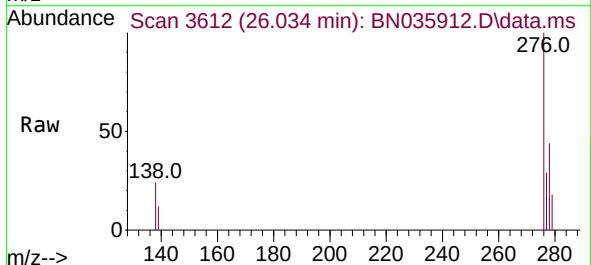
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

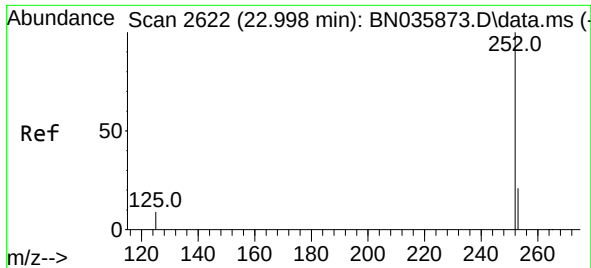
Tgt Ion:264 Resp: 1689
Ion Ratio Lower Upper
264 100
260 29.3 21.7 32.5
265 56.9 33.9 50.9#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.395 ng
RT: 26.034 min Scan# 3612
Delta R.T. -0.014 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Tgt Ion:276 Resp: 2628
Ion Ratio Lower Upper
276 100
138 21.8 18.9 28.3
277 25.3 19.5 29.3

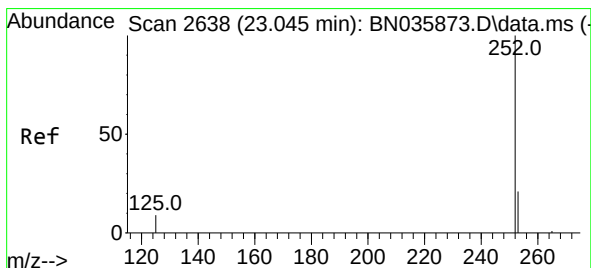
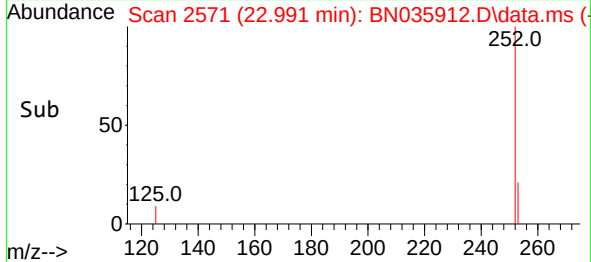
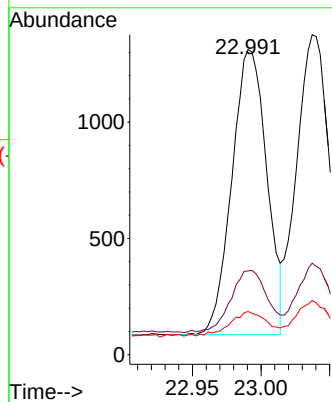
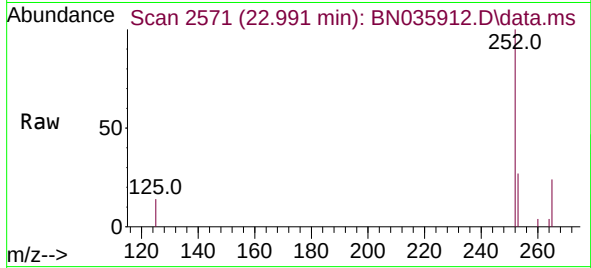




#37
Benzo(b)fluoranthene
Concen: 0.373 ng
RT: 22.991 min Scan# 2571
Delta R.T. -0.008 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

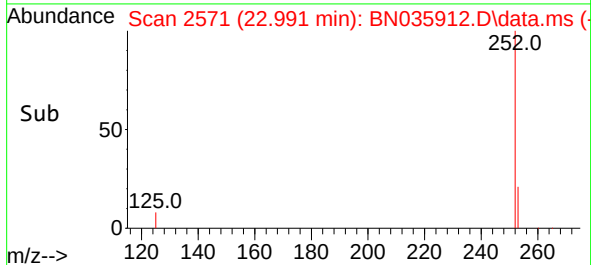
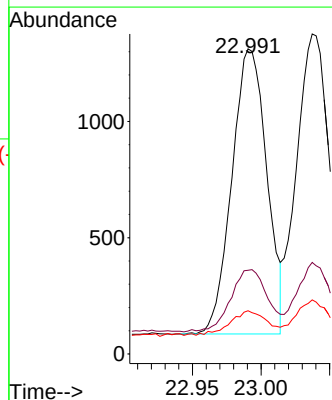
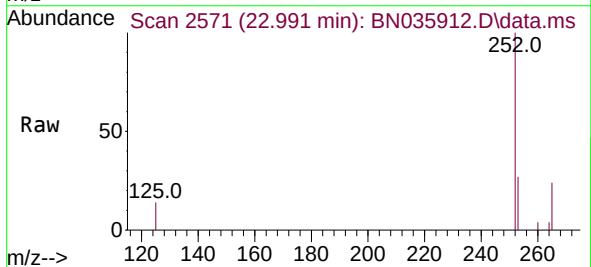
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

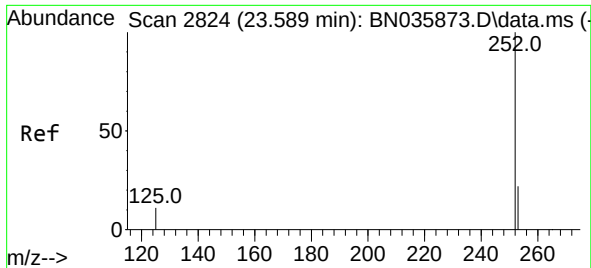
Tgt Ion:252 Resp: 2167
Ion Ratio Lower Upper
252 100
253 27.4 20.1 30.1
125 14.2 9.9 14.9



#38
Benzo(k)fluoranthene
Concen: 0.377 ng
RT: 22.991 min Scan# 2571
Delta R.T. -0.054 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

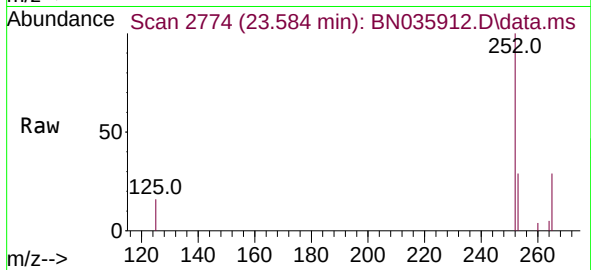
Tgt Ion:252 Resp: 2167
Ion Ratio Lower Upper
252 100
253 27.4 20.5 30.7
125 14.2 10.6 16.0



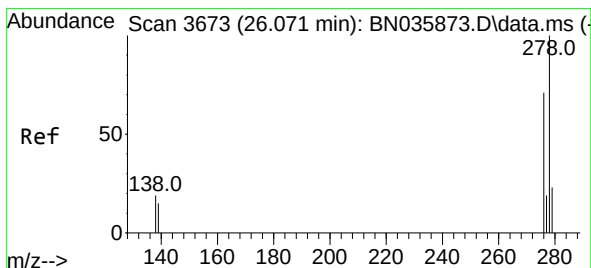
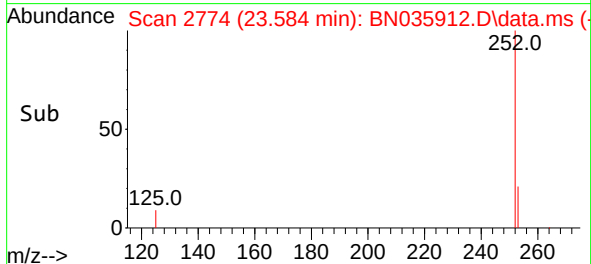
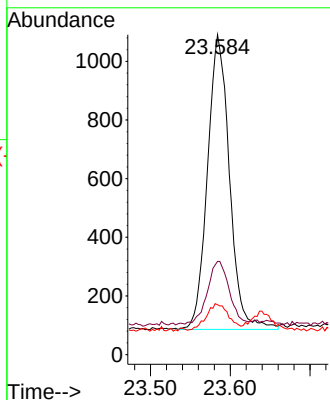


#39
Benzo(a)pyrene
Concen: 0.384 ng
RT: 23.584 min Scan# 21
Delta R.T. -0.005 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

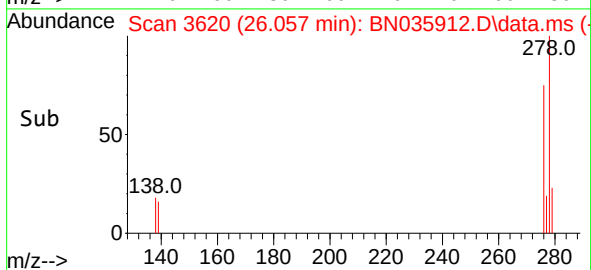
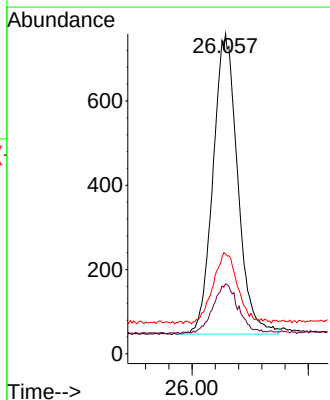
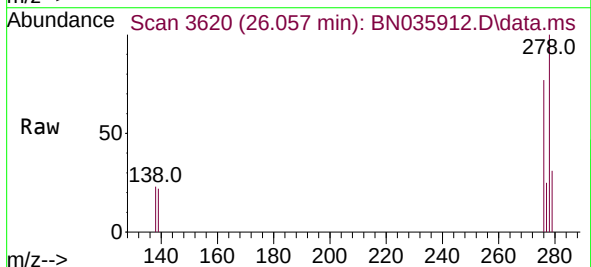


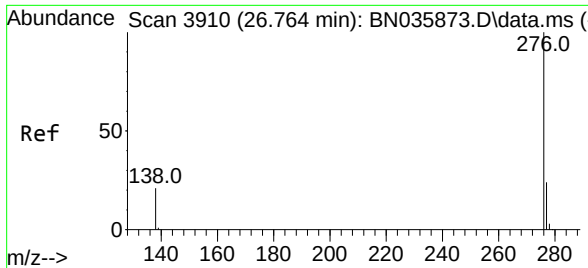
Tgt Ion:252 Resp: 1927
Ion Ratio Lower Upper
252 100
253 29.1 21.5 32.3
125 15.6 12.6 19.0



#40
Dibenzo(a,h)anthracene
Concen: 0.395 ng
RT: 26.057 min Scan# 3620
Delta R.T. -0.014 min
Lab File: BN035912.D
Acq: 10 Jan 2025 21:20

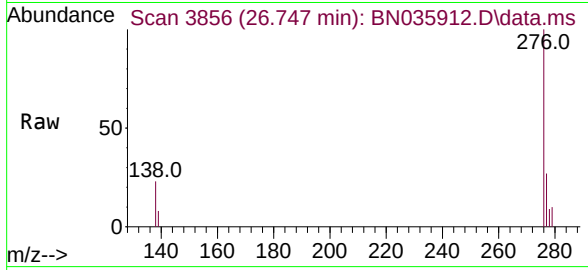
Tgt Ion:278 Resp: 2091
Ion Ratio Lower Upper
278 100
139 21.9 15.9 23.9
279 31.2 23.0 34.4





#41
 Benzo(g,h,i)perylene
 Concen: 0.388 ng
 RT: 26.747 min Scan# 3856
 Delta R.T. -0.016 min
 Lab File: BN035912.D
 Acq: 10 Jan 2025 21:20

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC



Tgt Ion: 276 Resp: 2297

Ion	Ratio	Lower	Upper
276	100		
277	27.4	22.8	34.2
138	23.4	20.1	30.1

